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TEST REPORT

Applicant: Arashi Vision Inc.
Address: 11th Floor, Building 2, Jinlitong Financial Center,
Bao'an District, Shenzhen, Guangdong, China
Equipment Type: Insta360 Wave
Model Name: CINSABCA
Brand Name: Insta360
FCC ID: 2AWWH-CINSABCA
ISED Number: 26293-CINSABCA
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Apr. 11, 2025
Test Date: May 13, 2025 - Jun. 17, 2025
Date of Issue: Aug. 27, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Yang Wenxuan**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 27, 2025</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	Arashi Vision Inc.
Address	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, Shenzhen, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Arashi Vision Inc.
Address	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, Shenzhen, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Insta360 Wave
Model Name Under Test	CINSABCA
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	PSPLB2503DBTDK
Hardware Version	V05
Software Version	VPSP_0.0.18.5
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g and 802.11n 2.4G ISM Band
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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-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, 40 MHz
Maximum Output Power	U-NII-1: 90.99 mW U-NII-3: 88.31 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PCB Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -0.45 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.18 dBi
About the Product	The equipment is Insta360 Wave, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
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-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
6 dB bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151

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	42% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.0°C to +24.8°C
Working Voltage of the EUT	NV (Normal Voltage)	5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
				2025.04.28	2026.04.27
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
				2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2022.02.19	2025.02.18
				2025.02.14	2028.02.13

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%

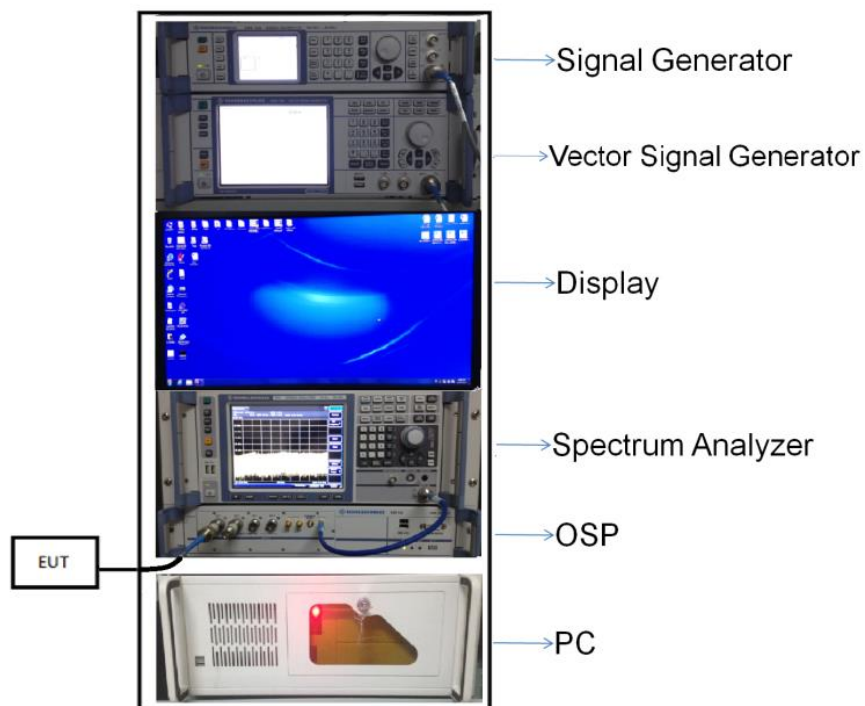
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

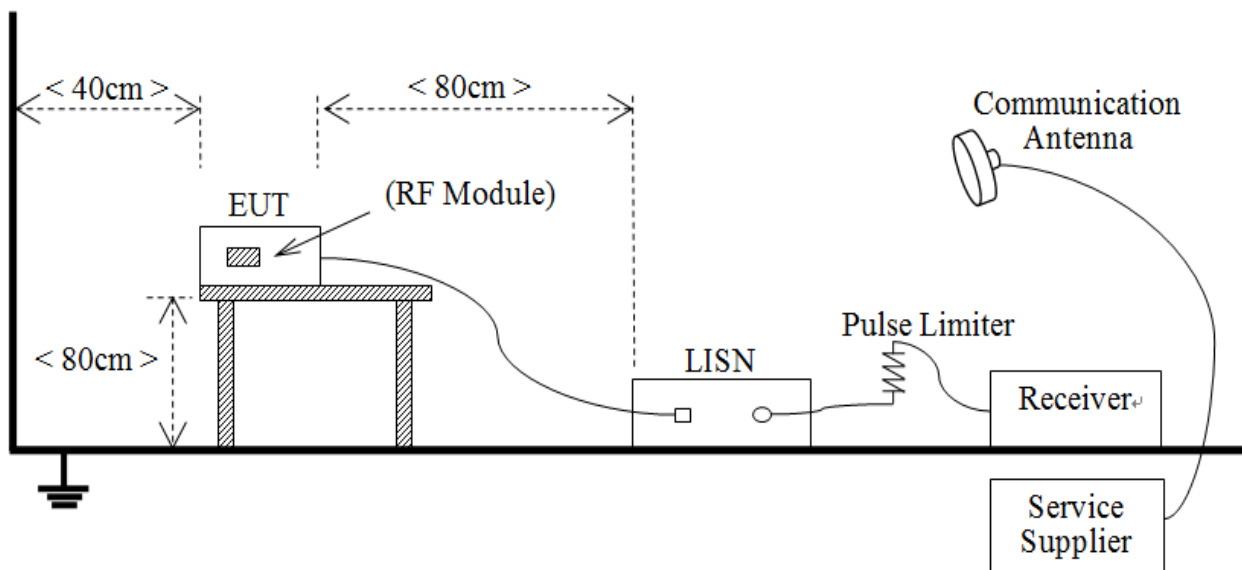
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



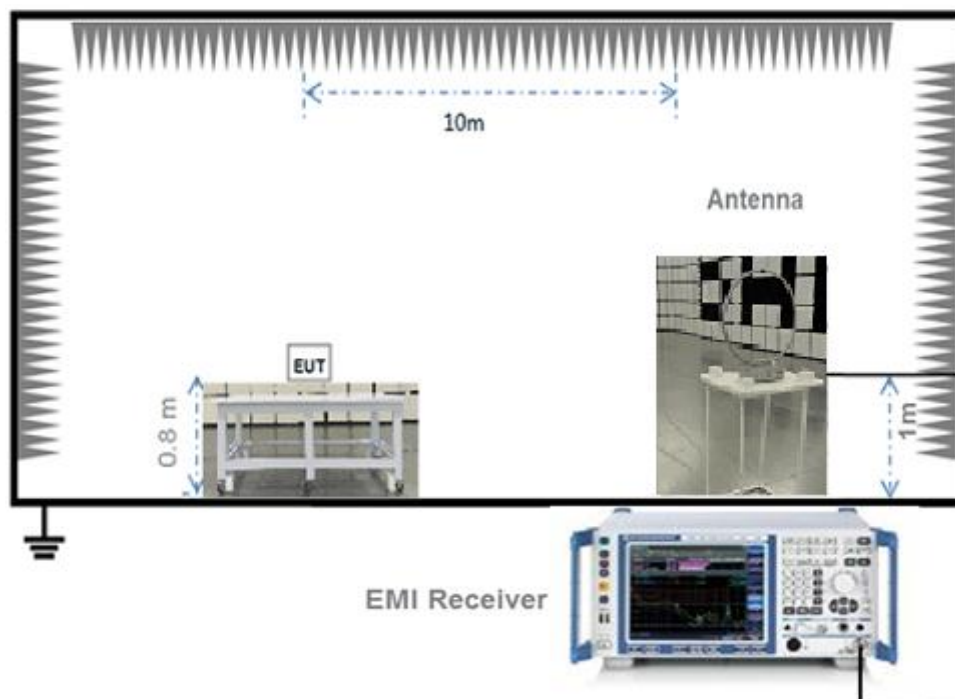
(Diagram 1)

4.5.2 For AC Power Supply Port Test



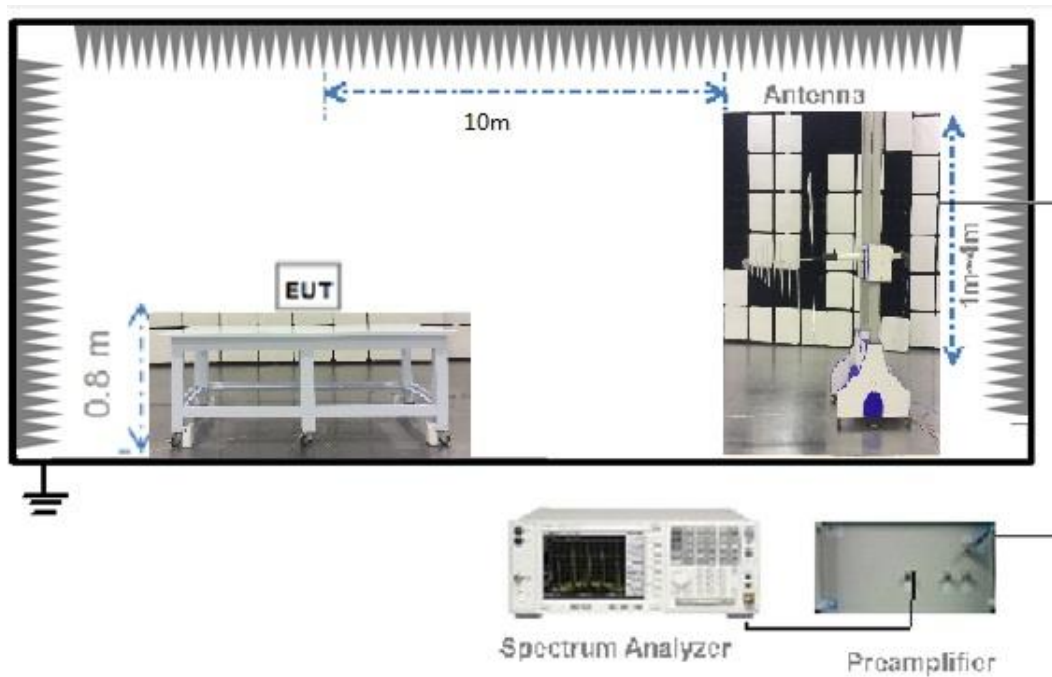
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



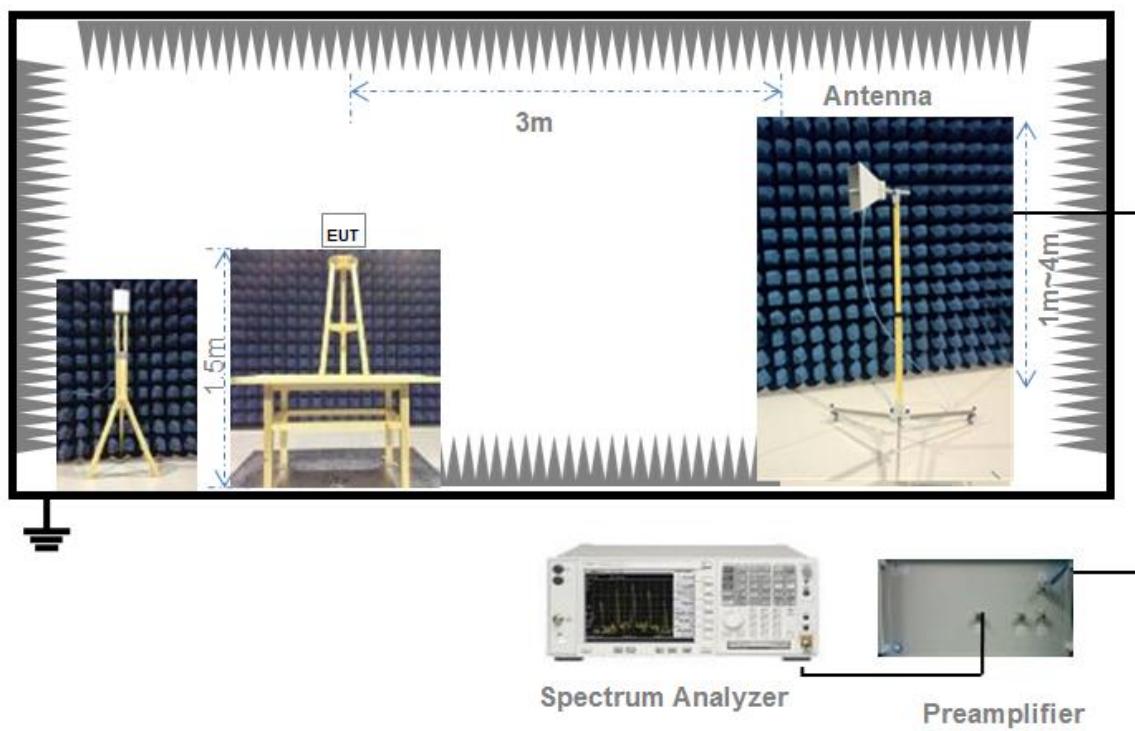
(Diagram 3)

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)

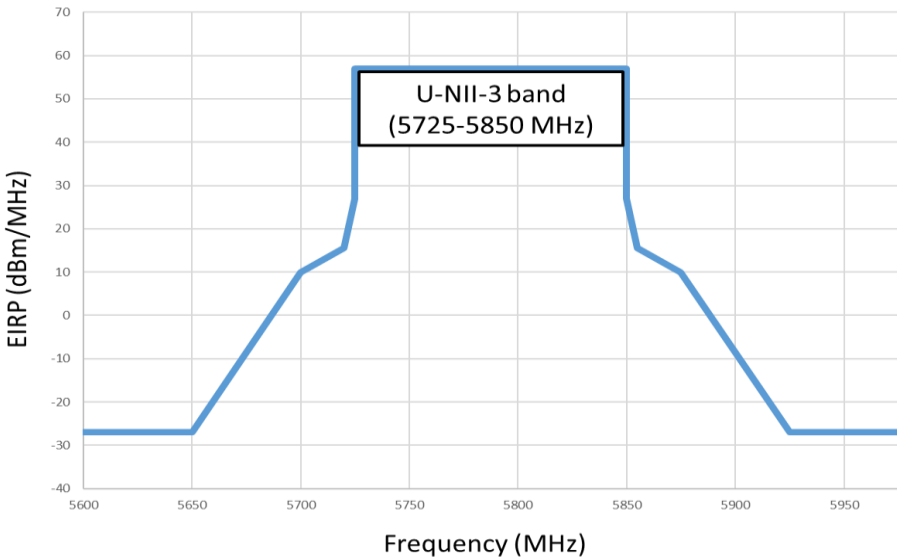
5.5.1 Limit

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

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: 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	1.38	6.90	19.98%	6.99
11n(HT20)	0.16	0.86	19.00%	7.21
11n(HT40)	0.28	0.72	38.84%	4.11

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	19.36	86.30	250	Pass
11a	CH44	19.59	90.99	250	Pass
11a	CH48	19.48	88.72	250	Pass
11n(HT20)	CH36	16.90	48.98	250	Pass
11n(HT20)	CH44	17.05	50.70	250	Pass
11n(HT20)	CH48	16.79	47.75	250	Pass
11n(HT40)	CH38	15.76	37.67	250	Pass
11n(HT40)	CH46	15.61	36.39	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	19.38	86.70	1000	Pass
11a	CH157	19.46	88.31	1000	Pass
11a	CH165	19.03	79.98	1000	Pass
11n(HT20)	CH149	16.38	43.45	1000	Pass
11n(HT20)	CH157	16.56	45.29	1000	Pass
11n(HT20)	CH165	17.19	52.36	1000	Pass
11n(HT40)	CH151	15.27	33.65	1000	Pass
11n(HT40)	CH159	14.76	29.92	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	18.91	77.80	200	Pass
11a	CH44	19.14	82.04	200	Pass
11a	CH48	19.03	79.98	200	Pass
11n (HT20)	CH36	16.45	44.16	200	Pass
11n (HT20)	CH44	16.60	45.71	200	Pass
11n (HT20)	CH48	16.34	43.05	200	Pass
11n (HT40)	CH38	15.31	33.96	200	Pass
11n (HT40)	CH46	15.16	32.81	200	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	18.20	66.07	Pass
11a	CH157	18.28	67.30	Pass
11a	CH165	17.85	60.95	Pass
11n (HT20)	CH149	15.20	33.11	Pass
11n (HT20)	CH157	15.38	34.51	Pass
11n (HT20)	CH165	16.01	39.90	Pass
11n (HT40)	CH151	14.09	25.64	Pass
11n (HT40)	CH159	13.58	22.80	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2540813-605 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	22.75	16.63
11a	CH44	22.85	16.64
11a	CH48	22.59	16.62
11n(HT20)	CH36	23.51	17.80
11n(HT20)	CH44	23.56	17.81
11n(HT20)	CH48	23.70	17.81
11n(HT40)	CH38	41.61	36.29
11n(HT40)	CH46	41.69	36.28

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	22.96	16.64
11a	CH157	22.51	16.64
11a	CH165	23.12	16.64
11n(HT20)	CH149	23.64	17.83
11n(HT20)	CH157	23.98	17.82
11n(HT20)	CH165	24.03	17.84
11n(HT40)	CH151	41.72	36.30
11n(HT40)	CH159	41.59	36.29

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2540813-605 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.85	500.00	Pass
11a	CH157	16.40	500.00	Pass
11a	CH165	16.40	500.00	Pass
11n(HT20)	CH149	15.30	500.00	Pass
11n(HT20)	CH157	17.00	500.00	Pass
11n(HT20)	CH165	17.05	500.00	Pass
11n(HT40)	CH151	36.00	500.00	Pass
11n(HT40)	CH159	36.20	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-SZ2540813-605 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	1.28	11.00	Pass
11a	CH44	1.52	11.00	Pass
11a	CH48	1.43	11.00	Pass
11n(HT20)	CH36	-1.71	11.00	Pass
11n(HT20)	CH44	-1.50	11.00	Pass
11n(HT20)	CH48	-1.74	11.00	Pass
11n(HT40)	CH38	-2.63	11.00	Pass
11n(HT40)	CH46	-2.87	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-1.63	30.00	Pass
11a	CH157	-1.29	30.00	Pass
11a	CH165	-1.65	30.00	Pass
11n(HT20)	CH149	-5.11	30.00	Pass
11n(HT20)	CH157	-4.77	30.00	Pass
11n(HT20)	CH165	-3.97	30.00	Pass
11n(HT40)	CH151	-6.09	30.00	Pass
11n(HT40)	CH159	-6.49	30.00	Pass

E.I.R.P PSD

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	E.I.R.P PSD (dBm/MHz)	E.I.R.P Limit (dBm/MHz)	Verdict
11a	CH36	0.83	10.00	Pass
11a	CH44	1.07	10.00	Pass
11a	CH48	0.98	10.00	Pass
11n (HT20)	CH36	-2.16	10.00	Pass
11n (HT20)	CH44	-1.95	10.00	Pass
11n (HT20)	CH48	-2.19	10.00	Pass
11n (HT40)	CH38	-3.08	10.00	Pass
11n (HT40)	CH46	-3.32	10.00	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/500kHz)	Verdict
11a	CH149	-2.81	Pass
11a	CH157	-2.47	Pass
11a	CH165	-2.83	Pass
11n (HT20)	CH149	-6.29	Pass
11n (HT20)	CH157	-5.95	Pass
11n (HT20)	CH165	-5.15	Pass
11n (HT40)	CH151	-7.27	Pass
11n (HT40)	CH159	-7.67	Pass

A.5 Conducted Emissions

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

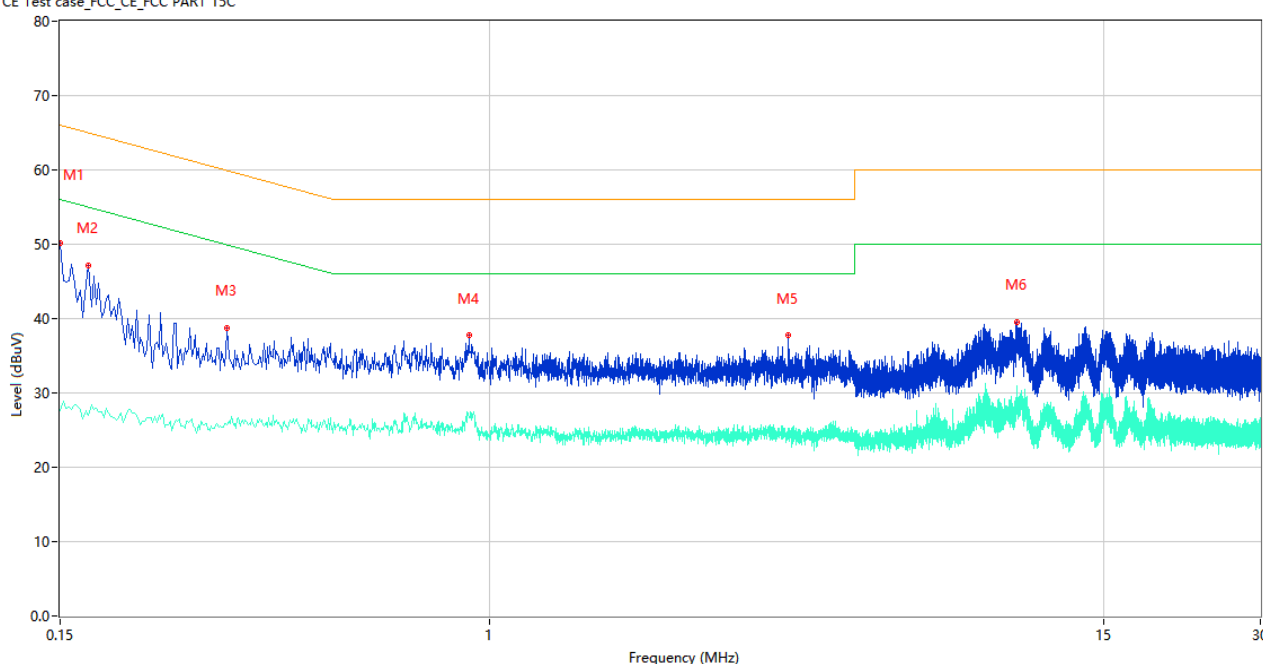
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

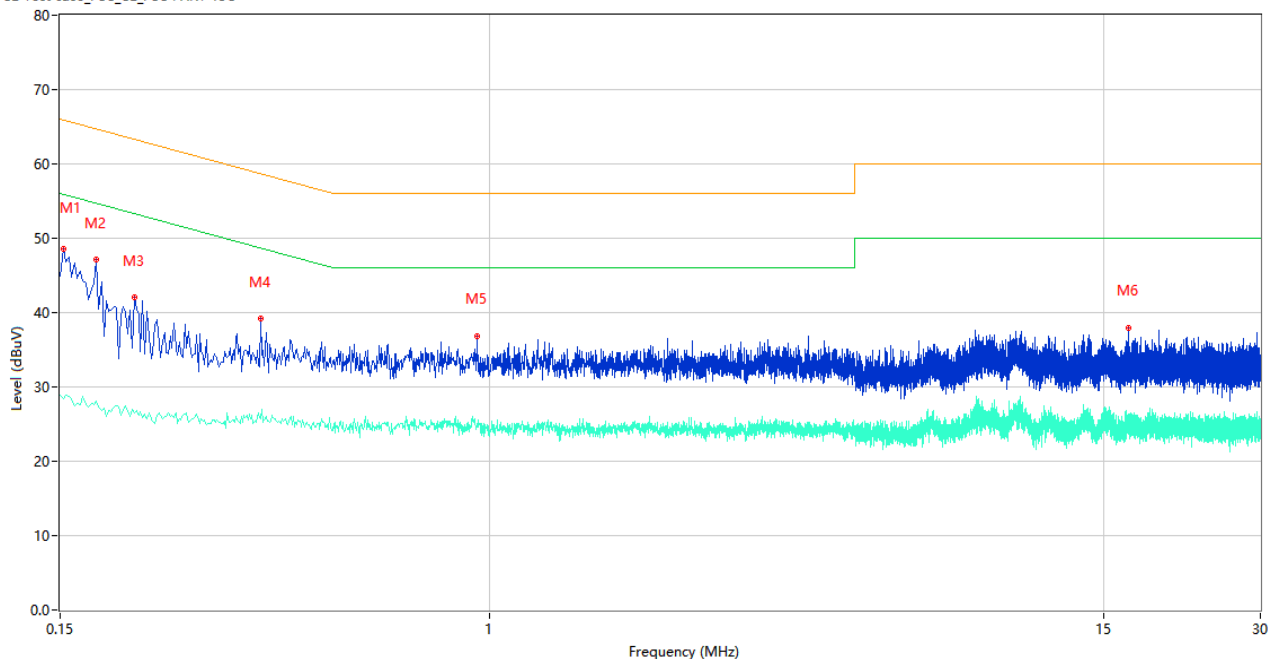
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	50.16	9.86	66.00	15.84	Peak	L	Pass
1**	0.150	27.58	9.86	56.00	28.42	AV	L	Pass
2	0.170	47.14	9.85	64.96	17.82	Peak	L	Pass
2**	0.170	27.04	9.85	54.96	27.92	AV	L	Pass
3	0.314	38.79	10.10	59.86	21.07	Peak	L	Pass
3**	0.314	25.65	10.10	49.86	24.21	AV	L	Pass
4	0.912	37.71	10.22	56.00	18.29	Peak	L	Pass
4**	0.912	26.60	10.22	46.00	19.40	AV	L	Pass
5	3.732	37.70	10.45	56.00	18.30	Peak	L	Pass
5**	3.732	24.99	10.45	46.00	21.01	AV	L	Pass
6	10.222	39.53	10.59	60.00	20.47	Peak	L	Pass
6**	10.222	30.48	10.59	50.00	19.52	AV	L	Pass
6**	8.838	31.42	10.45	50.00	18.58	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	48.59	9.86	65.89	17.30	Peak	N	Pass
1**	0.152	28.41	9.86	55.89	27.48	AV	N	Pass
2	0.176	47.14	9.85	64.67	17.53	Peak	N	Pass
2**	0.176	28.17	9.85	54.67	26.50	AV	N	Pass
3	0.208	41.99	9.84	63.28	21.29	Peak	N	Pass
3**	0.208	26.48	9.84	53.28	26.80	AV	N	Pass
4	0.364	39.19	10.76	58.64	19.45	Peak	N	Pass
4**	0.364	25.75	10.76	48.64	22.89	AV	N	Pass
5	0.944	36.83	10.14	56.00	19.17	Peak	N	Pass
5**	0.944	25.14	10.14	46.00	20.86	AV	N	Pass
6	16.728	38.00	10.95	60.00	22.00	Peak	N	Pass
6**	16.728	24.34	10.95	50.00	25.66	AV	N	Pass

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

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

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

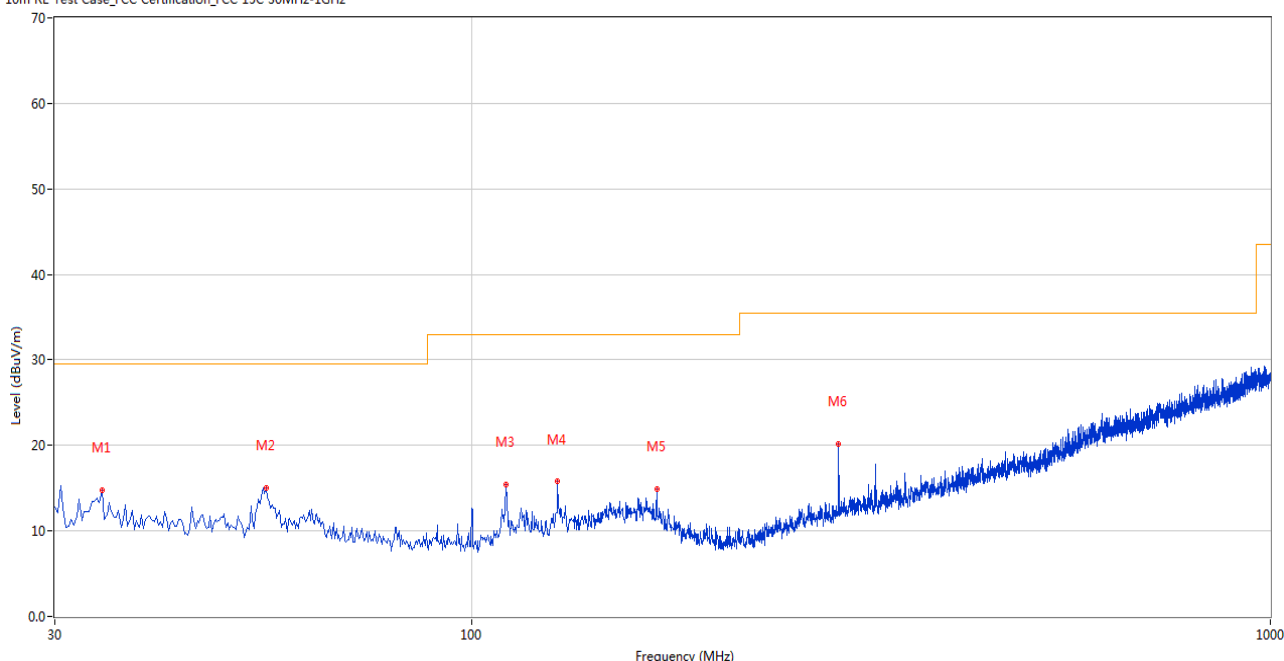
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

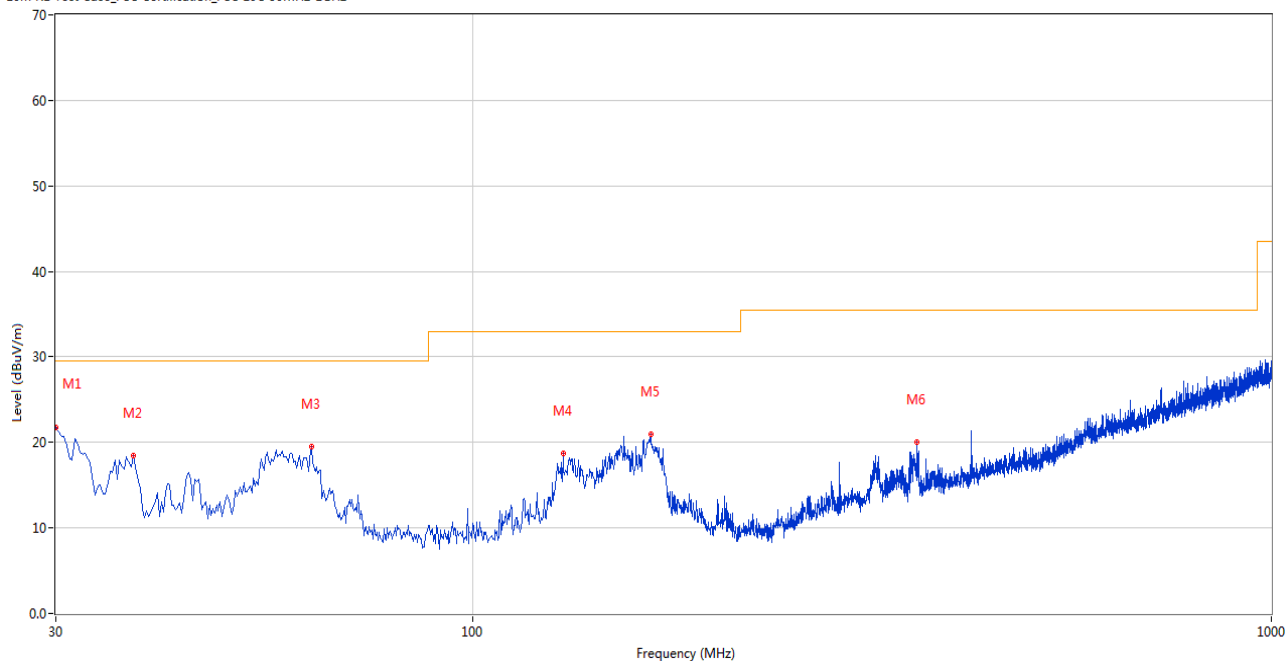
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.364	14.75	-26.94	29.5	14.75	Peak	360.00	200	Horizontal	Pass
2	55.214	15.08	-27.15	29.5	14.42	Peak	182.00	200	Horizontal	Pass
3	110.247	15.41	-28.98	33.0	17.59	Peak	90.00	100	Horizontal	Pass
4	127.946	15.76	-27.47	33.0	17.24	Peak	52.00	100	Horizontal	Pass
5	170.372	14.85	-26.95	33.0	18.15	Peak	270.00	200	Horizontal	Pass
6	287.956	20.12	-25.91	35.5	15.38	Peak	286.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	21.79	-26.83	29.5	7.71	Peak	360.00	200	Vertical	Pass
2	37.516	18.41	-26.99	29.5	11.09	Peak	291.00	100	Vertical	Pass
3	62.729	19.49	-27.72	29.5	10.01	Peak	139.00	100	Vertical	Pass
4	129.643	18.73	-27.56	33.0	14.27	Peak	285.00	100	Vertical	Pass
5	166.978	20.93	-26.45	33.0	12.07	Peak	307.00	100	Vertical	Pass
6	359.718	20.03	-23.72	35.5	15.47	Peak	237.00	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)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.240	40.00	74.0	34.00	Peak	182.00	300	Horizontal	Pass
1**	1512.240	31.29	54.0	22.71	AV	182.00	300	Horizontal	Pass
2	2348.918	44.34	74.0	29.66	Peak	67.00	200	Horizontal	Pass
2**	2348.918	35.07	54.0	18.93	AV	67.00	200	Horizontal	Pass
3	4206.626	46.52	74.0	27.48	Peak	91.00	200	Horizontal	Pass
3**	4206.626	36.08	54.0	17.92	AV	91.00	200	Horizontal	Pass
4	7436.012	52.77	74.0	21.23	Peak	72.00	300	Horizontal	Pass
4**	7436.012	43.69	54.0	10.31	AV	72.00	300	Horizontal	Pass
5	12516.418	53.24	74.0	20.76	Peak	247.00	200	Horizontal	Pass
5**	12516.418	45.94	54.0	8.06	AV	247.00	200	Horizontal	Pass
6	16150.182	55.38	74.0	18.62	Peak	298.00	100	Horizontal	Pass
6**	16150.182	46.17	54.0	7.83	AV	298.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.013	35.61	74.0	38.39	Peak	337.00	400	Vertical	Pass
1**	1570.013	24.02	54.0	29.98	AV	337.00	400	Vertical	Pass
2	2347.043	44.88	74.0	29.12	Peak	343.00	400	Vertical	Pass
2**	2347.043	35.44	54.0	18.56	AV	343.00	400	Vertical	Pass
3	3919.814	47.74	74.0	26.26	Peak	352.00	200	Vertical	Pass
3**	3919.814	37.59	54.0	16.41	AV	352.00	200	Vertical	Pass
4	7684.409	49.98	74.0	24.02	Peak	254.00	300	Vertical	Pass
4**	7684.409	44.78	54.0	9.22	AV	254.00	300	Vertical	Pass
5	12528.729	58.37	74.0	15.63	Peak	212.00	300	Vertical	Pass
5**	12528.729	40.34	54.0	13.66	AV	212.00	300	Vertical	Pass
6	15385.098	51.88	74.0	22.12	Peak	263.00	300	Vertical	Pass
6**	15380.390	44.70	54.0	9.30	AV	89.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.657	38.02	74.0	35.98	Peak	272.00	100	Horizontal	Pass
1**	1509.657	30.91	54.0	23.09	AV	272.00	100	Horizontal	Pass
2	2347.269	42.19	74.0	31.81	Peak	321.00	200	Horizontal	Pass
2**	2347.269	40.27	54.0	13.73	AV	321.00	200	Horizontal	Pass
3	4202.864	45.22	74.0	28.78	Peak	259.00	200	Horizontal	Pass
3**	4202.864	35.68	54.0	18.32	AV	259.00	200	Horizontal	Pass
4	7431.543	56.64	74.0	17.36	Peak	335.00	200	Horizontal	Pass
4**	7431.543	40.62	54.0	13.38	AV	335.00	200	Horizontal	Pass
5	12518.091	55.62	74.0	18.38	Peak	20.00	100	Horizontal	Pass
5**	12518.091	44.51	54.0	9.49	AV	20.00	100	Horizontal	Pass
6	16148.335	51.88	74.0	22.12	Peak	114.00	200	Horizontal	Pass
6**	16148.335	41.42	54.0	12.58	AV	114.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1567.555	34.63	74.0	39.37	Peak	118.00	100	Vertical	Pass
1**	1567.555	25.02	54.0	28.98	AV	118.00	100	Vertical	Pass
2	2348.759	45.23	74.0	28.77	Peak	14.00	300	Vertical	Pass
2**	2348.759	35.46	54.0	18.54	AV	14.00	300	Vertical	Pass
3	3920.265	44.76	74.0	29.24	Peak	190.00	200	Vertical	Pass
3**	3920.265	37.44	54.0	16.56	AV	190.00	200	Vertical	Pass
4	7679.862	53.26	74.0	20.74	Peak	277.00	300	Vertical	Pass
4**	7679.862	42.51	54.0	11.49	AV	277.00	300	Vertical	Pass
5	12531.342	53.28	74.0	20.72	Peak	262.00	100	Vertical	Pass
5**	12531.342	43.96	54.0	10.04	AV	262.00	100	Vertical	Pass
6	15383.706	51.78	74.0	22.22	Peak	289.00	300	Vertical	Pass
6**	15383.706	45.93	54.0	8.07	AV	289.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.130	41.15	74.0	32.85	Peak	53.00	200	Horizontal	Pass
1**	1511.130	26.90	54.0	27.10	AV	53.00	200	Horizontal	Pass
2	2350.918	43.56	74.0	30.44	Peak	261.00	100	Horizontal	Pass
2**	2350.918	38.74	54.0	15.26	AV	261.00	100	Horizontal	Pass
3	4202.370	50.50	74.0	23.50	Peak	69.00	200	Horizontal	Pass
3**	4202.370	40.48	54.0	13.52	AV	69.00	200	Horizontal	Pass
4	7435.477	54.82	74.0	19.18	Peak	134.00	400	Horizontal	Pass
4**	7435.477	45.84	54.0	8.16	AV	134.00	400	Horizontal	Pass
5	12514.711	53.00	74.0	21.00	Peak	176.00	400	Horizontal	Pass
5**	12514.711	47.56	54.0	6.44	AV	176.00	400	Horizontal	Pass
6	16147.322	55.82	74.0	18.18	Peak	217.00	400	Horizontal	Pass
6**	16147.322	40.97	54.0	13.03	AV	217.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.373	34.49	74.0	39.51	Peak	191.00	300	Vertical	Pass
1**	1572.373	27.94	54.0	26.06	AV	191.00	300	Vertical	Pass
2	2346.779	42.30	74.0	31.70	Peak	160.00	200	Vertical	Pass
2**	2346.779	35.32	54.0	18.68	AV	160.00	200	Vertical	Pass
3	3919.273	47.04	74.0	26.96	Peak	179.00	200	Vertical	Pass
3**	3919.273	37.74	54.0	16.26	AV	179.00	200	Vertical	Pass
4	7680.863	50.08	74.0	23.92	Peak	149.00	400	Vertical	Pass
4**	7680.863	43.86	54.0	10.14	AV	149.00	400	Vertical	Pass
5	12532.354	57.10	74.0	16.90	Peak	210.00	400	Vertical	Pass
5**	12532.354	41.96	54.0	12.04	AV	210.00	400	Vertical	Pass
6	15382.865	53.27	74.0	20.73	Peak	326.00	300	Vertical	Pass
6**	15382.865	46.27	54.0	7.73	AV	326.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1515.177	39.35	74.0	34.65	Peak	31.00	200	Horizontal	Pass
1**	1515.177	27.38	54.0	26.62	AV	31.00	200	Horizontal	Pass
2	2350.699	44.93	74.0	29.07	Peak	197.00	300	Horizontal	Pass
2**	2350.699	39.39	54.0	14.61	AV	197.00	300	Horizontal	Pass
3	4203.886	47.47	74.0	26.53	Peak	265.00	200	Horizontal	Pass
3**	4203.886	37.76	54.0	16.24	AV	265.00	200	Horizontal	Pass
4	7432.994	52.58	74.0	21.42	Peak	160.00	100	Horizontal	Pass
4**	7432.994	41.72	54.0	12.28	AV	160.00	100	Horizontal	Pass
5	12514.343	58.30	74.0	15.70	Peak	191.00	100	Horizontal	Pass
5**	12514.343	46.18	54.0	7.82	AV	191.00	100	Horizontal	Pass
6	16148.839	56.62	74.0	17.38	Peak	88.00	400	Horizontal	Pass
6**	16148.839	44.49	54.0	9.51	AV	88.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.925	34.10	74.0	39.90	Peak	206.00	400	Vertical	Pass
1**	1572.925	29.33	54.0	24.67	AV	206.00	400	Vertical	Pass
2	2345.322	43.61	74.0	30.39	Peak	125.00	300	Vertical	Pass
2**	2345.322	33.50	54.0	20.50	AV	125.00	300	Vertical	Pass
3	3919.487	47.37	74.0	26.63	Peak	209.00	200	Vertical	Pass
3**	3919.487	36.35	54.0	17.65	AV	209.00	200	Vertical	Pass
4	7681.092	49.53	74.0	24.47	Peak	269.00	100	Vertical	Pass
4**	7681.092	41.93	54.0	12.07	AV	269.00	100	Vertical	Pass
5	12527.228	56.96	74.0	17.04	Peak	200.00	400	Vertical	Pass
5**	12527.228	43.07	54.0	10.93	AV	200.00	400	Vertical	Pass
6	15380.003	50.22	74.0	23.78	Peak	288.00	200	Vertical	Pass
6**	15380.003	42.07	54.0	11.93	AV	288.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.066	40.26	74.0	33.74	Peak	305.00	300	Horizontal	Pass
1**	1511.066	27.99	54.0	26.01	AV	305.00	300	Horizontal	Pass
2	2345.174	44.50	74.0	29.50	Peak	74.00	200	Horizontal	Pass
2**	2345.174	38.84	54.0	15.16	AV	74.00	200	Horizontal	Pass
3	4204.886	47.91	74.0	26.09	Peak	69.00	200	Horizontal	Pass
3**	4204.886	38.02	54.0	15.98	AV	69.00	200	Horizontal	Pass
4	7436.513	51.69	74.0	22.31	Peak	129.00	400	Horizontal	Pass
4**	7436.513	41.15	54.0	12.85	AV	129.00	400	Horizontal	Pass
5	12518.188	56.38	74.0	17.62	Peak	23.00	400	Horizontal	Pass
5**	12518.188	45.76	54.0	8.24	AV	23.00	400	Horizontal	Pass
6	16150.382	56.50	74.0	17.50	Peak	162.00	100	Horizontal	Pass
6**	16150.382	43.06	54.0	10.94	AV	162.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.954	36.66	74.0	37.34	Peak	63.00	300	Vertical	Pass
1**	1572.954	25.82	54.0	28.18	AV	63.00	300	Vertical	Pass
2	2344.813	45.92	74.0	28.08	Peak	38.00	300	Vertical	Pass
2**	2344.813	34.71	54.0	19.29	AV	38.00	300	Vertical	Pass
3	3918.088	43.02	74.0	30.98	Peak	319.00	200	Vertical	Pass
3**	3918.088	38.62	54.0	15.38	AV	319.00	200	Vertical	Pass
4	7677.686	49.22	74.0	24.78	Peak	296.00	300	Vertical	Pass
4**	7677.686	41.79	54.0	12.21	AV	296.00	300	Vertical	Pass
5	12528.017	55.50	74.0	18.50	Peak	343.00	200	Vertical	Pass
5**	12528.017	41.88	54.0	12.12	AV	343.00	200	Vertical	Pass
6	15382.626	52.15	74.0	21.85	Peak	355.00	300	Vertical	Pass
6**	15382.626	47.54	54.0	6.46	AV	355.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.086	40.33	74.0	33.67	Peak	3.00	200	Horizontal	Pass
1**	1511.086	31.69	54.0	22.31	AV	3.00	200	Horizontal	Pass
2	2346.236	43.22	74.0	30.78	Peak	56.00	100	Horizontal	Pass
2**	2346.236	38.02	54.0	15.98	AV	56.00	100	Horizontal	Pass
3	4208.807	49.75	74.0	24.25	Peak	140.00	200	Horizontal	Pass
3**	4208.807	40.42	54.0	13.58	AV	140.00	200	Horizontal	Pass
4	7431.492	55.30	74.0	18.70	Peak	208.00	400	Horizontal	Pass
4**	7431.492	42.35	54.0	11.65	AV	208.00	400	Horizontal	Pass
5	12517.123	56.60	74.0	17.40	Peak	262.00	200	Horizontal	Pass
5**	12517.123	46.17	54.0	7.83	AV	262.00	200	Horizontal	Pass
6	16144.161	53.47	74.0	20.53	Peak	264.00	100	Horizontal	Pass
6**	16144.161	42.24	54.0	11.76	AV	264.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.593	35.71	74.0	38.29	Peak	30.00	300	Vertical	Pass
1**	1570.593	27.76	54.0	26.24	AV	30.00	300	Vertical	Pass
2	2346.007	45.97	74.0	28.03	Peak	107.00	200	Vertical	Pass
2**	2346.007	32.08	54.0	21.92	AV	107.00	200	Vertical	Pass
3	3920.541	42.22	74.0	31.78	Peak	130.00	200	Vertical	Pass
3**	3920.541	38.95	54.0	15.05	AV	130.00	200	Vertical	Pass
4	7676.547	50.57	74.0	23.43	Peak	222.00	200	Vertical	Pass
4**	7676.547	44.98	54.0	9.02	AV	222.00	200	Vertical	Pass
5	12531.502	53.61	74.0	20.39	Peak	123.00	200	Vertical	Pass
5**	12531.502	44.75	54.0	9.25	AV	123.00	200	Vertical	Pass
6	15384.388	55.61	74.0	18.39	Peak	227.00	100	Vertical	Pass
6**	15384.388	47.37	54.0	6.63	AV	227.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.328	42.48	74.0	31.52	Peak	314.00	200	Horizontal	Pass
1**	1513.328	28.89	54.0	25.11	AV	314.00	200	Horizontal	Pass
2	2346.948	41.94	74.0	32.06	Peak	288.00	400	Horizontal	Pass
2**	2346.948	40.12	54.0	13.88	AV	288.00	400	Horizontal	Pass
3	4205.921	48.82	74.0	25.18	Peak	304.00	200	Horizontal	Pass
3**	4205.921	37.78	54.0	16.22	AV	304.00	200	Horizontal	Pass
4	7437.775	57.27	74.0	16.73	Peak	172.00	300	Horizontal	Pass
4**	7437.775	41.19	54.0	12.81	AV	172.00	300	Horizontal	Pass
5	12516.072	55.26	74.0	18.74	Peak	117.00	200	Horizontal	Pass
5**	12516.072	50.03	54.0	3.97	AV	117.00	200	Horizontal	Pass
6	16148.117	53.97	74.0	20.03	Peak	108.00	400	Horizontal	Pass
6**	16148.117	42.75	54.0	11.25	AV	108.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1568.896	35.11	74.0	38.89	Peak	201.00	100	Vertical	Pass
1**	1568.896	23.80	54.0	30.20	AV	201.00	100	Vertical	Pass
2	2344.277	47.56	74.0	26.44	Peak	351.00	200	Vertical	Pass
2**	2344.277	30.42	54.0	23.58	AV	351.00	200	Vertical	Pass
3	3913.298	45.77	74.0	28.23	Peak	102.00	200	Vertical	Pass
3**	3913.298	34.08	54.0	19.92	AV	102.00	200	Vertical	Pass
4	7680.924	53.89	74.0	20.11	Peak	236.00	400	Vertical	Pass
4**	7680.924	45.40	54.0	8.60	AV	236.00	400	Vertical	Pass
5	12529.023	58.53	74.0	15.47	Peak	269.00	300	Vertical	Pass
5**	12529.023	40.87	54.0	13.13	AV	269.00	300	Vertical	Pass
6	15383.768	52.38	74.0	21.62	Peak	1.00	400	Vertical	Pass
6**	15383.768	44.34	54.0	9.66	AV	1.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.947	37.32	74.0	36.68	Peak	343.00	100	Horizontal	Pass
1**	1508.947	30.12	54.0	23.88	AV	343.00	100	Horizontal	Pass
2	2350.528	45.90	74.0	28.10	Peak	191.00	300	Horizontal	Pass
2**	2350.528	36.82	54.0	17.18	AV	191.00	300	Horizontal	Pass
3	4208.986	45.28	74.0	28.72	Peak	307.00	200	Horizontal	Pass
3**	4208.986	35.04	54.0	18.96	AV	307.00	200	Horizontal	Pass
4	7436.271	56.58	74.0	17.42	Peak	261.00	400	Horizontal	Pass
4**	7436.271	43.17	54.0	10.83	AV	261.00	400	Horizontal	Pass
5	12517.637	54.51	74.0	19.49	Peak	147.00	100	Horizontal	Pass
5**	12517.637	47.47	54.0	6.53	AV	147.00	100	Horizontal	Pass
6	16144.358	54.52	74.0	19.48	Peak	317.00	200	Horizontal	Pass
6**	16144.358	45.63	54.0	8.37	AV	317.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.923	37.37	74.0	36.63	Peak	233.00	100	Vertical	Pass
1**	1570.923	24.30	54.0	29.70	AV	233.00	100	Vertical	Pass
2	2348.141	44.36	74.0	29.64	Peak	359.00	300	Vertical	Pass
2**	2348.141	30.90	54.0	23.10	AV	359.00	300	Vertical	Pass
3	3913.570	45.28	74.0	28.72	Peak	65.00	200	Vertical	Pass
3**	3913.570	34.03	54.0	19.97	AV	65.00	200	Vertical	Pass
4	7682.867	51.87	74.0	22.13	Peak	19.00	200	Vertical	Pass
4**	7682.867	41.97	54.0	12.03	AV	19.00	200	Vertical	Pass
5	12527.277	55.82	74.0	18.18	Peak	201.00	300	Vertical	Pass
5**	12527.277	41.60	54.0	12.40	AV	201.00	300	Vertical	Pass
6	15382.543	55.62	74.0	18.38	Peak	16.00	300	Vertical	Pass
6**	15382.543	46.40	54.0	7.60	AV	16.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.423	35.93	74.0	38.07	Peak	146.00	200	Horizontal	Pass
1**	1519.423	31.36	54.0	22.64	AV	146.00	200	Horizontal	Pass
2	4018.157	49.41	74.0	24.59	Peak	90.00	200	Horizontal	Pass
2**	4018.157	34.23	54.0	19.77	AV	90.00	200	Horizontal	Pass
3	7600.359	52.72	74.0	21.28	Peak	295.00	200	Horizontal	Pass
3**	7600.359	40.51	54.0	13.49	AV	295.00	200	Horizontal	Pass
4	12455.096	56.36	74.0	17.64	Peak	311.00	200	Horizontal	Pass
4**	12455.096	45.59	54.0	8.41	AV	311.00	200	Horizontal	Pass
5	16092.681	55.85	74.0	18.15	Peak	14.00	400	Horizontal	Pass
5**	16092.681	41.98	54.0	12.02	AV	14.00	400	Horizontal	Pass
6	17420.694	59.01	74.0	14.99	Peak	76.00	100	Horizontal	Pass
6**	17420.694	45.12	54.0	8.88	AV	76.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.991	44.51	74.0	29.49	Peak	97.00	300	Vertical	Pass
1**	1336.991	31.98	54.0	22.02	AV	97.00	300	Vertical	Pass
2	1443.472	44.33	74.0	29.67	Peak	24.00	400	Vertical	Pass
2**	1443.472	36.88	54.0	17.12	AV	24.00	400	Vertical	Pass
3	4313.662	48.61	74.0	25.39	Peak	193.00	200	Vertical	Pass
3**	4313.662	35.87	54.0	18.13	AV	193.00	200	Vertical	Pass
4	7590.594	54.18	74.0	19.82	Peak	34.00	400	Vertical	Pass
4**	7590.594	43.75	54.0	10.25	AV	34.00	400	Vertical	Pass
5	12531.928	50.87	74.0	23.13	Peak	119.00	300	Vertical	Pass
5**	12531.928	42.88	54.0	11.12	AV	119.00	300	Vertical	Pass
6	15903.346	56.20	74.0	17.80	Peak	216.00	300	Vertical	Pass
6**	15903.346	47.56	54.0	6.44	AV	216.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.151	37.63	74.0	36.37	Peak	249.00	200	Horizontal	Pass
1**	1522.151	30.14	54.0	23.86	AV	249.00	200	Horizontal	Pass
2	4019.732	44.31	74.0	29.69	Peak	355.00	200	Horizontal	Pass
2**	4019.732	36.24	54.0	17.76	AV	355.00	200	Horizontal	Pass
3	7600.949	55.60	74.0	18.40	Peak	230.00	200	Horizontal	Pass
3**	7600.949	42.75	54.0	11.25	AV	230.00	200	Horizontal	Pass
4	12454.273	50.77	74.0	23.23	Peak	326.00	300	Horizontal	Pass
4**	12454.273	45.53	54.0	8.47	AV	326.00	300	Horizontal	Pass
5	16093.894	53.92	74.0	20.08	Peak	280.00	200	Horizontal	Pass
5**	16093.894	43.19	54.0	10.81	AV	280.00	200	Horizontal	Pass
6	17417.201	53.19	74.0	20.81	Peak	42.00	400	Horizontal	Pass
6**	17417.201	48.22	54.0	5.78	AV	42.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.600	46.39	74.0	27.61	Peak	207.00	100	Vertical	Pass
1**	1336.600	33.44	54.0	20.56	AV	207.00	100	Vertical	Pass
2	1441.809	39.61	74.0	34.39	Peak	300.00	400	Vertical	Pass
2**	1441.809	34.51	54.0	19.49	AV	300.00	400	Vertical	Pass
3	4314.640	46.19	74.0	27.81	Peak	307.00	200	Vertical	Pass
3**	4314.640	41.18	54.0	12.82	AV	307.00	200	Vertical	Pass
4	7590.274	53.51	74.0	20.49	Peak	94.00	400	Vertical	Pass
4**	7590.274	44.72	54.0	9.28	AV	94.00	400	Vertical	Pass
5	12535.507	53.40	74.0	20.60	Peak	310.00	300	Vertical	Pass
5**	12535.507	40.88	54.0	13.12	AV	310.00	300	Vertical	Pass
6	15908.709	56.72	74.0	17.28	Peak	58.00	200	Vertical	Pass
6**	15908.709	44.02	54.0	9.98	AV	58.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.082	37.70	74.0	36.30	Peak	177.00	300	Horizontal	Pass
1**	1523.082	31.67	54.0	22.33	AV	177.00	300	Horizontal	Pass
2	4022.598	48.20	74.0	25.80	Peak	348.00	400	Horizontal	Pass
2**	4022.598	36.26	54.0	17.74	AV	348.00	400	Horizontal	Pass
3	7600.299	56.00	74.0	18.00	Peak	28.00	200	Horizontal	Pass
3**	7600.299	46.17	54.0	7.83	AV	28.00	200	Horizontal	Pass
4	12457.631	54.32	74.0	19.68	Peak	252.00	300	Horizontal	Pass
4**	12457.631	43.35	54.0	10.65	AV	252.00	300	Horizontal	Pass
5	16097.104	52.36	74.0	21.64	Peak	306.00	200	Horizontal	Pass
5**	16097.104	43.29	54.0	10.71	AV	306.00	200	Horizontal	Pass
6	17418.060	56.31	74.0	17.69	Peak	106.00	200	Horizontal	Pass
6**	17418.060	45.25	54.0	8.75	AV	106.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.902	46.68	74.0	27.32	Peak	5.00	100	Vertical	Pass
1**	1334.902	30.76	54.0	23.24	AV	5.00	100	Vertical	Pass
2	1438.728	42.33	74.0	31.67	Peak	255.00	100	Vertical	Pass
2**	1438.728	39.35	54.0	14.65	AV	255.00	100	Vertical	Pass
3	4307.927	47.12	74.0	26.88	Peak	102.00	200	Vertical	Pass
3**	4307.927	39.01	54.0	14.99	AV	102.00	200	Vertical	Pass
4	7592.713	53.98	74.0	20.02	Peak	187.00	200	Vertical	Pass
4**	7592.713	44.18	54.0	9.82	AV	187.00	200	Vertical	Pass
5	12536.081	52.30	74.0	21.70	Peak	94.00	300	Vertical	Pass
5**	12536.081	45.09	54.0	8.91	AV	94.00	300	Vertical	Pass
6	15907.992	53.76	74.0	20.24	Peak	356.00	300	Vertical	Pass
6**	15907.992	47.42	54.0	6.58	AV	356.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.850	39.97	74.0	34.03	Peak	108.00	400	Horizontal	Pass
1**	1523.850	28.19	54.0	25.81	AV	108.00	400	Horizontal	Pass
2	4018.499	49.08	74.0	24.92	Peak	154.00	400	Horizontal	Pass
2**	4018.499	38.33	54.0	15.67	AV	154.00	400	Horizontal	Pass
3	7595.122	55.06	74.0	18.94	Peak	343.00	200	Horizontal	Pass
3**	7595.122	46.22	54.0	7.78	AV	343.00	200	Horizontal	Pass
4	12452.853	51.15	74.0	22.85	Peak	98.00	100	Horizontal	Pass
4**	12452.853	41.60	54.0	12.40	AV	98.00	100	Horizontal	Pass
5	16095.403	54.87	74.0	19.13	Peak	309.00	100	Horizontal	Pass
5**	16095.403	45.16	54.0	8.84	AV	309.00	100	Horizontal	Pass
6	17422.130	56.69	74.0	17.31	Peak	250.00	400	Horizontal	Pass
6**	17422.130	49.27	54.0	4.73	AV	250.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.212	41.86	74.0	32.14	Peak	304.00	100	Vertical	Pass
1**	1333.212	35.05	54.0	18.95	AV	304.00	100	Vertical	Pass
2	1437.991	42.55	74.0	31.45	Peak	282.00	200	Vertical	Pass
2**	1437.991	37.39	54.0	16.61	AV	282.00	200	Vertical	Pass
3	4314.377	47.79	74.0	26.21	Peak	84.00	200	Vertical	Pass
3**	4314.377	36.99	54.0	17.01	AV	84.00	200	Vertical	Pass
4	7593.976	50.04	74.0	23.96	Peak	182.00	300	Vertical	Pass
4**	7593.976	43.20	54.0	10.80	AV	182.00	300	Vertical	Pass
5	12532.030	52.70	74.0	21.30	Peak	282.00	400	Vertical	Pass
5**	12532.030	45.87	54.0	8.13	AV	282.00	400	Vertical	Pass
6	15905.572	51.74	74.0	22.26	Peak	59.00	100	Vertical	Pass
6**	15905.572	48.23	54.0	5.77	AV	59.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.611	36.31	74.0	37.69	Peak	183.00	300	Horizontal	Pass
1**	1519.611	31.97	54.0	22.03	AV	183.00	300	Horizontal	Pass
2	4021.147	49.13	74.0	24.87	Peak	353.00	300	Horizontal	Pass
2**	4021.147	34.35	54.0	19.65	AV	353.00	300	Horizontal	Pass
3	7597.415	51.26	74.0	22.74	Peak	113.00	200	Horizontal	Pass
3**	7597.415	45.90	54.0	8.10	AV	113.00	200	Horizontal	Pass
4	12454.112	56.23	74.0	17.77	Peak	334.00	200	Horizontal	Pass
4**	12454.112	41.89	54.0	12.11	AV	334.00	200	Horizontal	Pass
5	16093.875	52.08	74.0	21.92	Peak	228.00	300	Horizontal	Pass
5**	16093.875	46.51	54.0	7.49	AV	228.00	300	Horizontal	Pass
6	17418.890	58.89	74.0	15.11	Peak	325.00	300	Horizontal	Pass
6**	17418.890	45.54	54.0	8.46	AV	325.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.279	43.33	74.0	30.67	Peak	182.00	400	Vertical	Pass
1**	1330.279	31.86	54.0	22.14	AV	182.00	400	Vertical	Pass
2	1437.963	40.17	74.0	33.83	Peak	53.00	200	Vertical	Pass
2**	1437.963	34.09	54.0	19.91	AV	53.00	200	Vertical	Pass
3	4308.062	48.14	74.0	25.86	Peak	159.00	200	Vertical	Pass
3**	4308.062	41.40	54.0	12.60	AV	159.00	200	Vertical	Pass
4	7591.431	51.52	74.0	22.48	Peak	337.00	300	Vertical	Pass
4**	7591.431	46.26	54.0	7.74	AV	337.00	300	Vertical	Pass
5	12536.651	53.71	74.0	20.29	Peak	211.00	100	Vertical	Pass
5**	12536.651	42.21	54.0	11.79	AV	211.00	100	Vertical	Pass
6	15910.253	51.71	74.0	22.29	Peak	152.00	200	Vertical	Pass
6**	15910.253	44.59	54.0	9.41	AV	152.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.620	36.82	74.0	37.18	Peak	82.00	300	Horizontal	Pass
1**	1523.620	29.15	54.0	24.85	AV	82.00	300	Horizontal	Pass
2	4020.358	47.84	74.0	26.16	Peak	46.00	100	Horizontal	Pass
2**	4020.358	37.80	54.0	16.20	AV	46.00	100	Horizontal	Pass
3	7595.996	51.95	74.0	22.05	Peak	176.00	200	Horizontal	Pass
3**	7595.996	43.96	54.0	10.04	AV	176.00	200	Horizontal	Pass
4	12459.202	52.97	74.0	21.03	Peak	273.00	300	Horizontal	Pass
4**	12459.202	44.76	54.0	9.24	AV	273.00	300	Horizontal	Pass
5	16098.948	53.36	74.0	20.64	Peak	94.00	100	Horizontal	Pass
5**	16098.948	45.09	54.0	8.91	AV	94.00	100	Horizontal	Pass
6	17417.899	56.27	74.0	17.73	Peak	357.00	300	Horizontal	Pass
6**	17417.899	49.03	54.0	4.97	AV	357.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.084	42.26	74.0	31.74	Peak	50.00	200	Vertical	Pass
1**	1332.084	35.96	54.0	18.04	AV	50.00	200	Vertical	Pass
2	1440.472	43.57	74.0	30.43	Peak	321.00	100	Vertical	Pass
2**	1440.472	37.85	54.0	16.15	AV	321.00	100	Vertical	Pass
3	4313.683	48.99	74.0	25.01	Peak	175.00	200	Vertical	Pass
3**	4313.683	41.46	54.0	12.54	AV	175.00	200	Vertical	Pass
4	7597.318	51.92	74.0	22.08	Peak	42.00	100	Vertical	Pass
4**	7597.318	42.59	54.0	11.41	AV	42.00	100	Vertical	Pass
5	12534.877	50.81	74.0	23.19	Peak	71.00	400	Vertical	Pass
5**	12534.877	43.08	54.0	10.92	AV	71.00	400	Vertical	Pass
6	15908.464	54.06	74.0	19.94	Peak	357.00	300	Vertical	Pass
6**	15908.464	46.27	54.0	7.73	AV	357.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.228	41.16	74.0	32.84	Peak	68.00	100	Horizontal	Pass
1**	1522.228	31.70	54.0	22.30	AV	68.00	100	Horizontal	Pass
2	4020.265	45.88	74.0	28.12	Peak	110.00	300	Horizontal	Pass
2**	4020.265	34.71	54.0	19.29	AV	110.00	300	Horizontal	Pass
3	7599.295	50.95	74.0	23.05	Peak	287.00	200	Horizontal	Pass
3**	7599.295	44.33	54.0	9.67	AV	287.00	200	Horizontal	Pass
4	12455.747	50.91	74.0	23.09	Peak	154.00	400	Horizontal	Pass
4**	12455.747	47.18	54.0	6.82	AV	154.00	400	Horizontal	Pass
5	16099.028	50.61	74.0	23.39	Peak	319.00	200	Horizontal	Pass
5**	16099.028	47.08	54.0	6.92	AV	319.00	200	Horizontal	Pass
6	17416.275	54.70	74.0	19.30	Peak	142.00	400	Horizontal	Pass
6**	17416.275	47.84	54.0	6.16	AV	142.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.860	41.84	74.0	32.16	Peak	178.00	200	Vertical	Pass
1**	1330.860	33.38	54.0	20.62	AV	178.00	200	Vertical	Pass
2	1443.188	43.17	74.0	30.83	Peak	129.00	300	Vertical	Pass
2**	1443.188	35.06	54.0	18.94	AV	129.00	300	Vertical	Pass
3	4310.649	46.41	74.0	27.59	Peak	110.00	200	Vertical	Pass
3**	4310.649	37.97	54.0	16.03	AV	110.00	200	Vertical	Pass
4	7593.476	52.69	74.0	21.31	Peak	150.00	300	Vertical	Pass
4**	7593.476	44.56	54.0	9.44	AV	150.00	300	Vertical	Pass
5	12532.628	51.60	74.0	22.40	Peak	44.00	300	Vertical	Pass
5**	12532.628	44.19	54.0	9.81	AV	44.00	300	Vertical	Pass
6	15907.322	56.53	74.0	17.47	Peak	77.00	200	Vertical	Pass
6**	15907.322	45.58	54.0	8.42	AV	77.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.044	39.53	74.0	34.47	Peak	90.00	400	Horizontal	Pass
1**	1522.044	26.93	54.0	27.07	AV	90.00	400	Horizontal	Pass
2	4023.370	46.74	74.0	27.26	Peak	194.00	400	Horizontal	Pass
2**	4023.370	36.33	54.0	17.67	AV	194.00	400	Horizontal	Pass
3	7600.182	53.55	74.0	20.45	Peak	145.00	200	Horizontal	Pass
3**	7600.182	41.21	54.0	12.79	AV	145.00	200	Horizontal	Pass
4	12459.446	54.74	74.0	19.26	Peak	264.00	300	Horizontal	Pass
4**	12459.446	43.35	54.0	10.65	AV	264.00	300	Horizontal	Pass
5	16096.391	54.35	74.0	19.65	Peak	187.00	100	Horizontal	Pass
5**	16096.391	45.45	54.0	8.55	AV	187.00	100	Horizontal	Pass
6	17421.404	53.34	74.0	20.66	Peak	342.00	400	Horizontal	Pass
6**	17421.404	47.06	54.0	6.94	AV	342.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.613	41.58	74.0	32.42	Peak	62.00	400	Vertical	Pass
1**	1330.613	31.51	54.0	22.49	AV	62.00	400	Vertical	Pass
2	1440.175	42.95	74.0	31.05	Peak	199.00	200	Vertical	Pass
2**	1440.175	39.70	54.0	14.30	AV	199.00	200	Vertical	Pass
3	4310.393	48.23	74.0	25.77	Peak	257.00	200	Vertical	Pass
3**	4310.393	35.84	54.0	18.16	AV	257.00	200	Vertical	Pass
4	7596.642	55.80	74.0	18.20	Peak	246.00	400	Vertical	Pass
4**	7596.642	41.33	54.0	12.67	AV	246.00	400	Vertical	Pass
5	12533.114	51.68	74.0	22.32	Peak	112.00	300	Vertical	Pass
5**	12533.114	43.34	54.0	10.66	AV	112.00	300	Vertical	Pass
6	15904.699	53.20	74.0	20.80	Peak	79.00	300	Vertical	Pass
6**	15904.699	46.43	54.0	7.57	AV	79.00	300	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

Test Data**U-NII-1 11a Low Channel**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5077.941	55.37	74.0	18.63	Peak	270.00	100	Horizontal	Pass
1**	5077.941	44.53	54.0	9.47	AV	270.00	100	Horizontal	Pass
2	5150.000	55.73	74.0	18.27	Peak	123.00	300	Horizontal	Pass
2**	5150.000	42.38	54.0	11.62	AV	123.00	300	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.6	74.0	19.40	Peak	246.00	100	Horizontal	Pass
1**	5350.000	45.48	54.0	8.52	AV	246.00	100	Horizontal	Pass
2	5424.339	55	74.0	19.00	Peak	80.00	100	Horizontal	Pass
2**	5424.339	43.73	54.0	10.27	AV	80.00	100	Horizontal	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5077.029	54.08	74.0	19.92	Peak	344.00	300	Horizontal	Pass
1**	5077.029	45.3	54.0	8.70	AV	344.00	300	Horizontal	Pass
2	5150.000	54.23	74.0	19.77	Peak	96.00	200	Horizontal	Pass
2**	5150.000	44.71	54.0	9.29	AV	96.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	53.05	74.0	20.95	Peak	349.00	200	Horizontal	Pass
1**	5350.000	44.42	54.0	9.58	AV	349.00	200	Horizontal	Pass
2	5422.201	56.57	74.0	17.43	Peak	268.00	100	Horizontal	Pass
2**	5422.201	46.14	54.0	7.86	AV	268.00	100	Horizontal	Pass

U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5076.847	55.94	74.0	18.06	Peak	81.00	300	Horizontal	Pass
1**	5076.847	42.92	54.0	11.08	AV	81.00	300	Horizontal	Pass
2	5150.000	54.37	74.0	19.63	Peak	288.00	300	Horizontal	Pass
2**	5150.000	44.67	54.0	9.33	AV	288.00	300	Horizontal	Pass

U-NII-1 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	53.78	74.0	20.22	Peak	120.00	100	Horizontal	Pass
1**	5350.000	42.84	54.0	11.16	AV	120.00	100	Horizontal	Pass
2	5424.203	56.96	74.0	17.04	Peak	156.00	100	Horizontal	Pass
2**	5424.203	46.96	54.0	7.04	AV	156.00	100	Horizontal	Pass

U-NII-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5644.321	54.79	68.2	13.41	Peak	196.00	100	Horizontal	Pass
2	5650.000	56.39	68.2	11.81	Peak	196.00	100	Horizontal	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	52.3	68.2	15.90	Peak	344.00	200	Horizontal	Pass
2	5943.042	56.55	68.2	11.65	Peak	229.00	200	Horizontal	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5642.877	53.25	68.2	14.95	Peak	162.00	300	Horizontal	Pass
2	5650.000	53.45	68.2	14.75	Peak	162.00	300	Horizontal	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	51.73	68.2	16.47	Peak	148.00	300	Horizontal	Pass
2	5943.591	54.36	68.2	13.84	Peak	142.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5641.531	53.34	68.2	14.86	Peak	72.00	100	Horizontal	Pass
2	5650.000	52.91	68.2	15.29	Peak	72.00	100	Horizontal	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	52.38	68.2	15.82	Peak	87.00	200	Horizontal	Pass
2	5946.584	54.36	68.2	13.84	Peak	249.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2540813-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2540813-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2540813-AI.PDF”.

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--END OF REPORT--