

TEST REPORT

Applicant: REOLINK TECHNOLOGY PTE. LTD.
Address: 31 KAKI BUKIT ROAD 3, #06-02, TECHLINK,
SINGAPORE 417818
Equipment Type: WiFi module
Model Name: WXP42R2101
Brand Name: Reolink
FCC ID: 2BN5S-2503K
ISED Number: 33667-2503K
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: May 06, 2025
Test Date: May 11, 2025 - May 20, 2025
Date of Issue: Jun. 16, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 16, 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	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.2 Manufacturer Information

Manufacturer	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.3 General Description for Equipment under Test (EUT)

EUT Name	WiFi module
Model Name Under Test	WXP42R2101
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	0C82A60C16B8
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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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, OFDMA	
Modulation Type	1024QAM, 256QAM, 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 802.11ac: up to VHT-MCS9 802.11ax up to 600 Mbps	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 58.99 mW U-NII-2A: 62.68 mW U-NII-2C: 59.81 mW U-NII-3: 71.41 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac/ax	
Antenna Type	SISO- Antenna 1	Dipole Antenna
	SISO- Antenna 2	
Antenna Gain	SISO- Antenna 1	U-NII-1: 5150 MHz to 5250 MHz: 3.46 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.46 dBi
	SISO- Antenna 2	U-NII-2C: 5470 MHz to 5725 MHz: 4.27 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.93 dBi
Total directional gain	For power spectral density(PSD)	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.47 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.47 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.28 dBi

	measurements	U-NII-3: 5725 MHz to 5850 MHz: 6.94 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.46 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.46 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.27 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.93 dBi Formulas: Directional gain = $GANT$
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.47 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.47 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.28 dBi U-NII-3: 5725 MHz to 5850 MHz: 6.94 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.46 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.46 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.27 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.93 dBi Formulas: Directional gain = $GANT$
About the Product		The equipment is WiFi module, intended for used with information technology equipment.

Mode	Antenna		
	SISO-Antenna 1	SISO-Antenna 2	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table							
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484	RU_996
802.11ax20	√	--	--	--	--	--	--
802.11ax40	√	--	--	--	--	--	--
802.11ax80	√	--	--	--	--	--	--

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	122	5610
52	5260	102	5510	155	5775
56	5280	110	5550		
60	5300	118	5590		
64	5320	126	5630		
100	5500	134	5670		
104	5520	151	5755		
108	5540	159	5795		
112	5560				
116	5580				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

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)/ac(VHT20)/ax(HE20)

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

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

For 802.11n(HT40)/ac(VHT40)/ax(HE40)

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

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

For 802.11ac(VHT80)/ax(HE80)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	58	Mid	5290

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	155	Mid	5775
122	High	5610			

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
	11ax(20 MHz)	4		N/A	N/A	N/A	165/157/149
	11ax(40 MHz)	8		N/A	N/A	N/A	159/151
	11ax(80 MHz)	17		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	106	155

Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
Band Edge (Restricted- band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	106	155
	11ax(20 MHz)	4		48/36	64/52	140/100	165/149
	11ax(40 MHz)	8		46/38	62/54	134/102	159/151
	11ax(80 MHz)	17		42	58	106	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
6	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	46% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.5°C to +24.1°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	MY50330200	2025.04.28	2026.04.27
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
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
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
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	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	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%

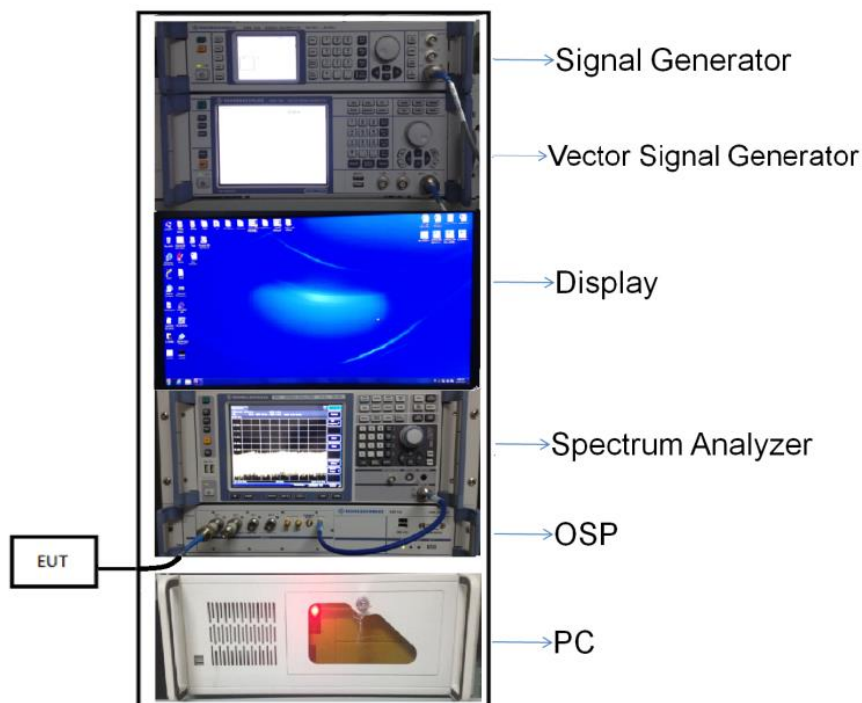
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

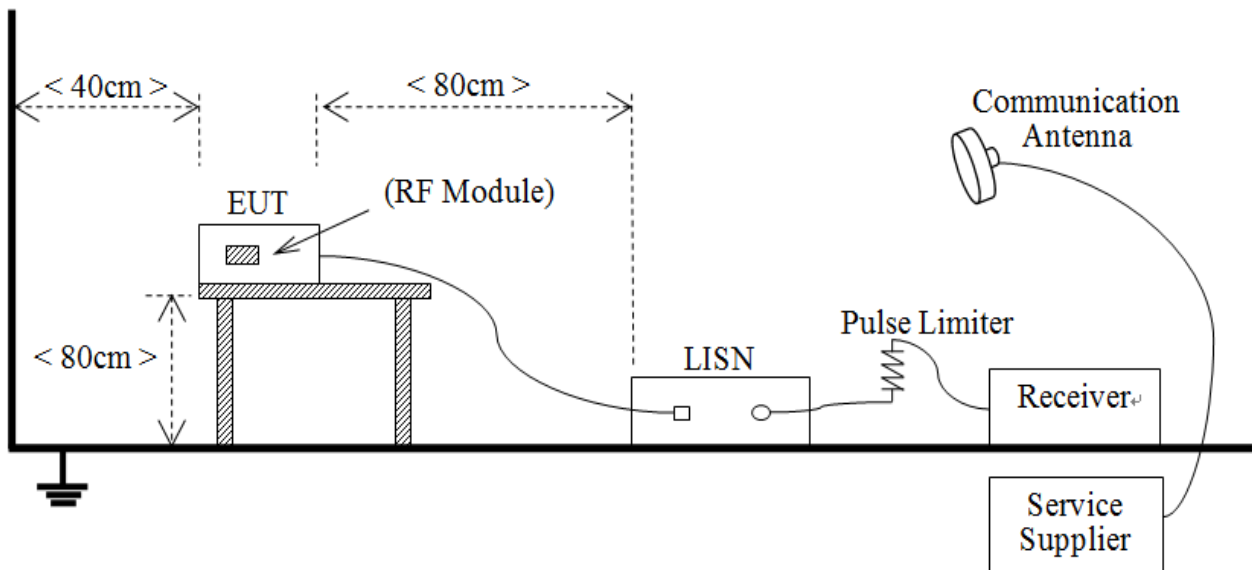
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



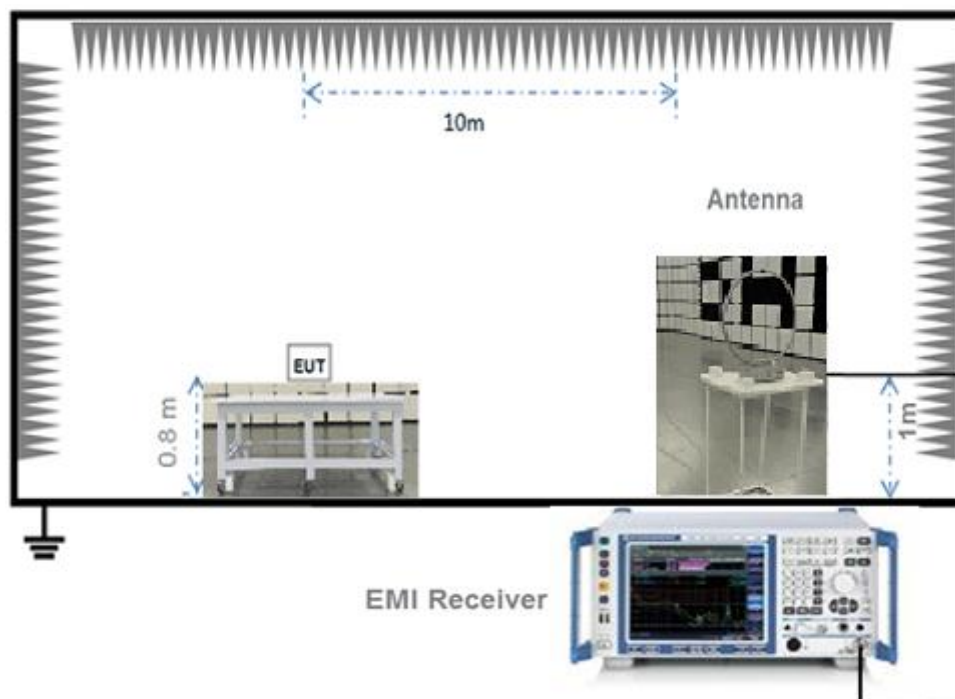
(Diagram 1)

4.5.2 For AC Power Supply Port Test



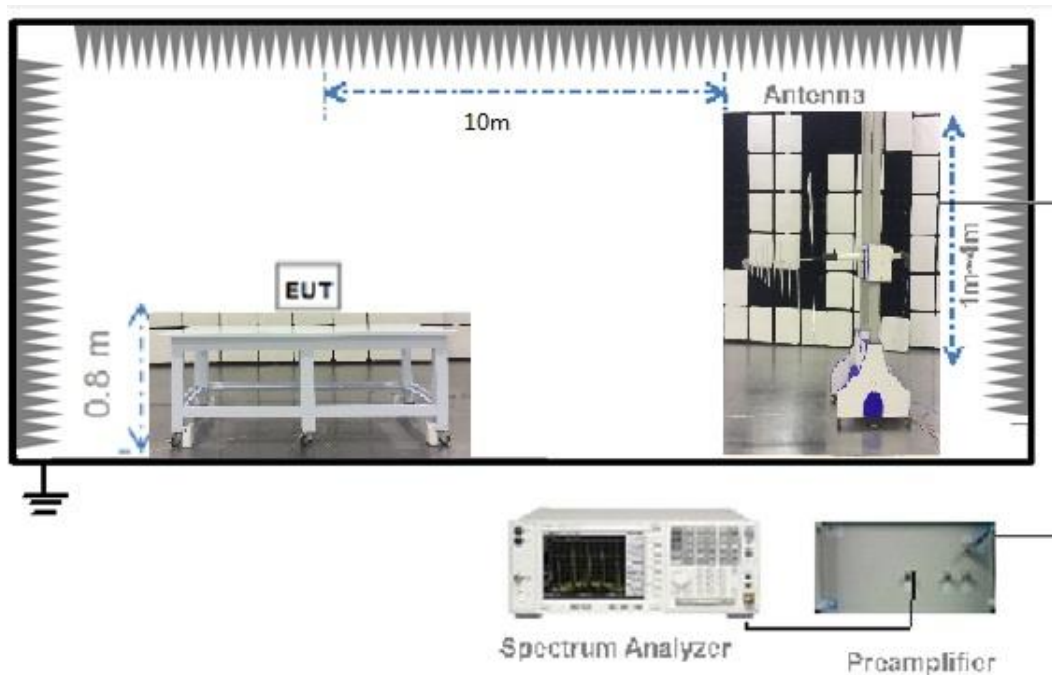
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



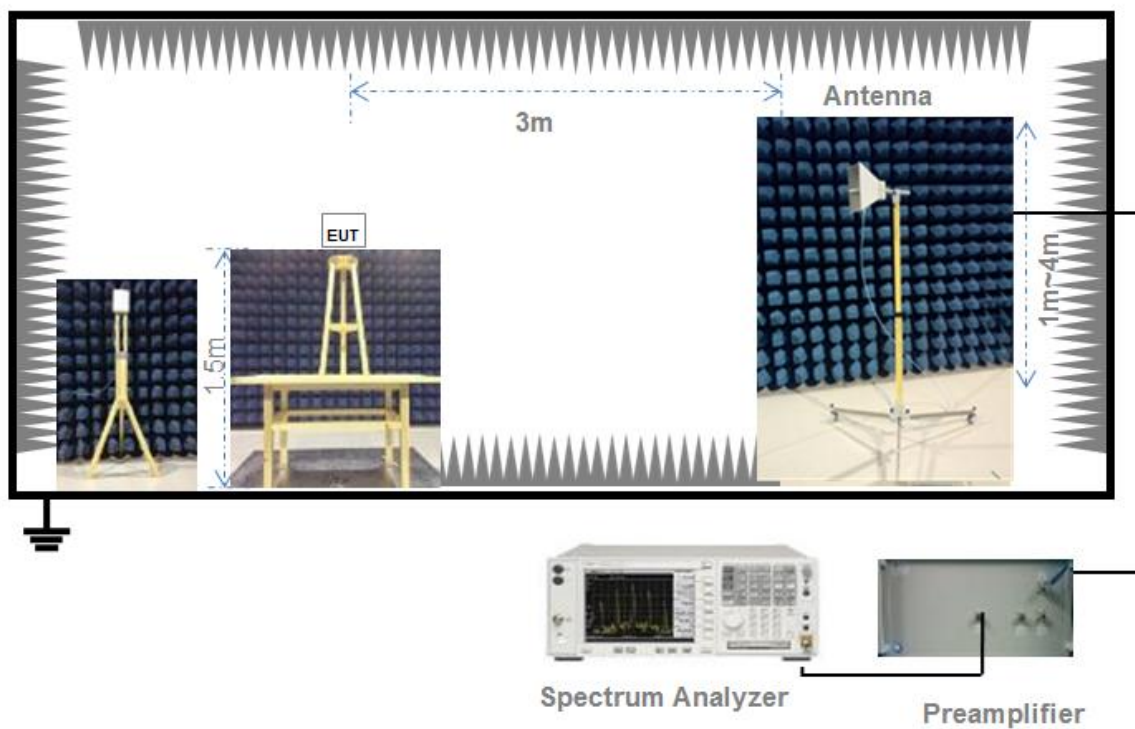
(Diagram 3)

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)

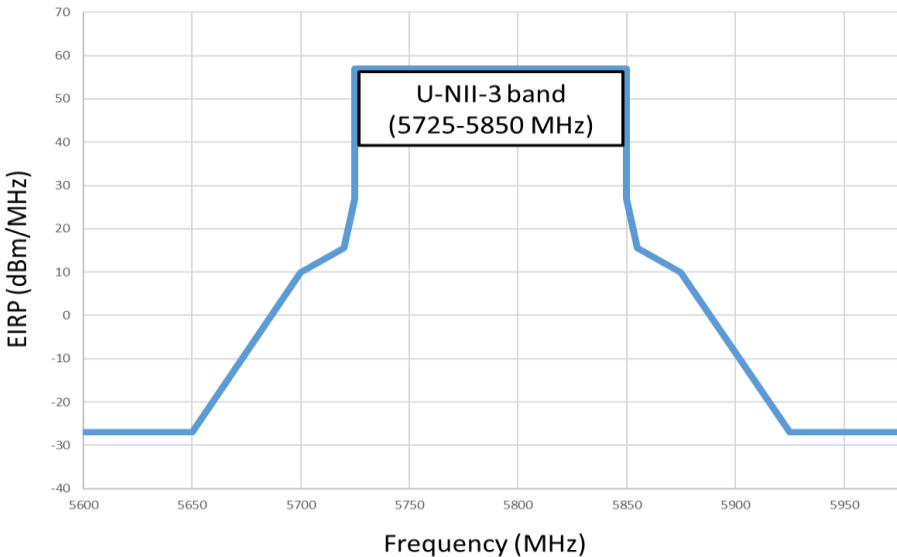
5.5.1 Limit

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

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.

Note ³: All the configurations were pre tested, but only the worst data was shown in this report.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.36	1.86	72.77%	1.38
11n (HT20)/11ac (VHT20)	1.39	1.90	73.06%	1.36
11n (HT40)/11ac (VHT40)	0.58	1.09	53.36%	2.73
11ac (VHT80)	0.29	0.80	36.81%	4.34
11ax (HE20)(SU)	1.39	1.89	73.45%	1.34
11ax (HE40)(SU)	0.58	1.08	53.30%	2.73
11ax (HE80)(SU)	0.29	0.80	36.66%	4.36

Test DataSISO-Antenna 1Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.43	34.92	250	Pass
11a	CH44	14.73	29.72	250	Pass
11a	CH48	14.61	28.91	250	Pass
11n (HT20)	CH36	15.13	32.61	250	Pass
11n (HT20)	CH44	14.53	28.40	250	Pass
11n (HT20)	CH48	14.44	27.82	250	Pass
11n (HT40)	CH38	16.39	43.53	250	Pass
11n (HT40)	CH46	15.93	39.15	250	Pass
11ac (VHT20)	CH36	15.29	33.83	250	Pass
11ac (VHT20)	CH44	14.63	29.06	250	Pass
11ac (VHT20)	CH48	14.40	27.56	250	Pass
11ac (VHT40)	CH38	16.27	42.34	250	Pass
11ac (VHT40)	CH46	15.91	38.97	250	Pass
11ac (VHT80)	CH42	17.48	55.99	250	Pass
11ax (HE20)(SU)	CH36	15.36	34.36	250	Pass
11ax (HE20)(SU)	CH44	14.64	29.11	250	Pass
11ax (HE20)(SU)	CH48	14.53	28.38	250	Pass
11ax (HE40)(SU)	CH38	16.41	43.78	250	Pass
11ax (HE40)(SU)	CH46	16.00	39.84	250	Pass
11ax (HE80)(SU)	CH42	17.61	57.65	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	14.93	31.12	232	Pass
11a	CH60	14.79	30.13	232	Pass
11a	CH64	14.41	27.61	232	Pass
11n (HT20)	CH52	15.37	34.46	243	Pass
11n (HT20)	CH60	14.54	28.46	243	Pass
11n (HT20)	CH64	14.23	26.50	244	Pass
11n (HT40)	CH54	16.74	47.18	250	Pass
11n (HT40)	CH62	15.99	39.70	250	Pass
11ac (VHT20)	CH52	15.62	36.50	232	Pass
11ac (VHT20)	CH60	14.76	29.94	232	Pass
11ac (VHT20)	CH64	14.35	27.25	232	Pass
11ac (VHT40)	CH54	16.75	47.29	250	Pass
11ac (VHT40)	CH62	16.00	39.79	250	Pass
11ac (VHT80)	CH58	17.81	60.41	250	Pass
11ax (HE20)(SU)	CH52	15.69	37.07	232	Pass
11ax (HE20)(SU)	CH60	14.75	29.85	232	Pass
11ax (HE20)(SU)	CH64	14.35	27.23	232	Pass
11ax (HE40)(SU)	CH54	16.79	47.78	250	Pass
11ax (HE40)(SU)	CH62	16.03	40.11	250	Pass
11ax (HE80)(SU)	CH58	17.78	59.95	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	15.59	36.23	232	Pass
11a	CH116	15.43	34.92	232	Pass
11a	CH140	15.78	37.85	232	Pass
11n (HT20)	CH100	15.04	31.94	243	Pass
11n (HT20)	CH116	15.00	31.64	243	Pass
11n (HT20)	CH140	15.60	36.33	243	Pass
11n (HT40)	CH102	16.76	47.40	250	Pass
11n (HT40)	CH118	16.82	48.06	250	Pass
11n (HT40)	CH134	17.44	55.43	250	Pass
11ac (VHT20)	CH100	15.34	34.22	232	Pass
11ac (VHT20)	CH116	15.23	33.37	232	Pass
11ac (VHT20)	CH140	15.64	36.67	232	Pass
11ac (VHT40)	CH102	16.80	47.84	250	Pass
11ac (VHT40)	CH118	16.81	47.95	250	Pass
11ac (VHT40)	CH134	17.38	54.67	250	Pass
11ac (VHT80)	CH106	17.74	59.44	250	Pass
11ac (VHT80)	CH122	17.72	59.17	250	Pass
11ax (HE20)(SU)	CH100	15.01	31.70	250	Pass
11ax (HE20)(SU)	CH116	14.81	30.27	250	Pass
11ax (HE20)(SU)	CH140	15.32	34.04	250	Pass
11ax (HE40)(SU)	CH102	16.65	46.27	250	Pass
11ax (HE40)(SU)	CH118	16.52	44.90	250	Pass
11ax (HE40)(SU)	CH134	17.26	53.24	250	Pass
11ax (HE80)(SU)	CH106	17.77	59.81	250	Pass
11ax (HE80)(SU)	CH122	17.66	58.31	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.93	39.18	1000	Pass
11a	CH157	16.06	40.37	1000	Pass
11a	CH165	16.35	43.16	1000	Pass
11n (HT20)	CH149	15.48	35.34	1000	Pass
11n (HT20)	CH157	15.79	37.96	1000	Pass
11n (HT20)	CH165	16.03	40.11	1000	Pass
11n (HT40)	CH151	17.16	51.97	1000	Pass
11n (HT40)	CH159	17.59	57.38	1000	Pass
11ac (VHT20)	CH149	15.62	36.50	1000	Pass
11ac (VHT20)	CH157	15.86	38.57	1000	Pass
11ac (VHT20)	CH165	16.12	40.95	1000	Pass
11ac (VHT40)	CH151	17.17	52.09	1000	Pass
11ac (VHT40)	CH159	17.59	57.38	1000	Pass
11ac (VHT80)	CH155	18.37	68.72	1000	Pass
11ax (HE20)(SU)	CH149	15.38	34.52	1000	Pass
11ax (HE20)(SU)	CH157	15.52	35.65	1000	Pass
11ax (HE20)(SU)	CH165	15.81	38.11	1000	Pass
11ax (HE40)(SU)	CH151	17.33	54.11	1000	Pass
11ax (HE40)(SU)	CH159	17.51	56.40	1000	Pass
11ax (HE80)(SU)	CH155	18.34	68.20	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	18.89	77.45	163	Pass
11a	CH44	18.19	65.92	163	Pass
11a	CH48	18.07	64.13	163	Pass
11n (HT20)	CH36	18.59	72.33	175	Pass
11n (HT20)	CH44	17.99	62.99	175	Pass
11n (HT20)	CH48	17.90	61.70	175	Pass
11n (HT40)	CH38	19.85	96.56	200	Pass
11n (HT40)	CH46	19.39	86.85	200	Pass
11ac (VHT20)	CH36	18.75	75.04	163	Pass
11ac (VHT20)	CH44	18.09	64.46	163	Pass
11ac (VHT20)	CH48	17.86	61.14	163	Pass
11ac (VHT40)	CH38	19.73	93.92	200	Pass
11ac (VHT40)	CH46	19.37	86.45	200	Pass
11ac (VHT80)	CH42	20.94	124.19	200	Pass
11ax (HE20)(SU)	CH36	18.82	76.21	163	Pass
11ax (HE20)(SU)	CH44	18.10	64.57	163	Pass
11ax (HE20)(SU)	CH48	17.99	62.95	163	Pass
11ax (HE40)(SU)	CH38	19.87	97.11	200	Pass
11ax (HE40)(SU)	CH46	19.46	88.36	200	Pass
11ax (HE80)(SU)	CH42	21.07	127.87	200	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	18.39	69.03	818	Pass
11a	CH60	18.25	66.84	818	Pass
11a	CH64	17.87	61.24	818	Pass
11n (HT20)	CH52	18.83	76.44	877	Pass
11n (HT20)	CH60	18.00	63.14	876	Pass
11n (HT20)	CH64	17.69	58.79	877	Pass
11n (HT40)	CH54	20.20	104.66	1000	Pass
11n (HT40)	CH62	19.45	88.06	1000	Pass
11ac (VHT20)	CH52	19.08	80.97	818	Pass
11ac (VHT20)	CH60	18.22	66.42	818	Pass
11ac (VHT20)	CH64	17.81	60.44	818	Pass
11ac (VHT40)	CH54	20.21	104.90	1000	Pass
11ac (VHT40)	CH62	19.46	88.26	1000	Pass
11ac (VHT80)	CH58	21.27	133.99	1000	Pass
11ax (HE20)(SU)	CH52	19.15	82.23	818	Pass
11ax (HE20)(SU)	CH60	18.21	66.22	818	Pass
11ax (HE20)(SU)	CH64	17.81	60.40	819	Pass
11ax (HE40)(SU)	CH54	20.25	105.99	1000	Pass
11ax (HE40)(SU)	CH62	19.49	88.98	1000	Pass
11ax (HE80)(SU)	CH58	21.24	132.98	1000	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	19.86	96.84	818	Pass
11a	CH116	19.70	93.33	818	Pass
11a	CH140	20.05	101.17	818	Pass
11n (HT20)	CH100	19.31	85.37	877	Pass
11n (HT20)	CH116	19.27	84.59	877	Pass
11n (HT20)	CH140	19.87	97.12	876	Pass
11n (HT40)	CH102	21.03	126.70	1000	Pass
11n (HT40)	CH118	21.09	128.46	1000	Pass
11n (HT40)	CH134	21.71	148.18	1000	Pass
11ac (VHT20)	CH100	19.61	91.48	819	Pass
11ac (VHT20)	CH116	19.50	89.19	818	Pass
11ac (VHT20)	CH140	19.91	98.02	818	Pass
11ac (VHT40)	CH102	21.07	127.87	1000	Pass
11ac (VHT40)	CH118	21.08	128.17	1000	Pass
11ac (VHT40)	CH134	21.65	146.14	1000	Pass
11ac (VHT80)	CH106	22.01	158.89	1000	Pass
11ac (VHT80)	CH122	21.99	158.16	1000	Pass
11ax (HE20)(SU)	CH100	19.28	84.72	945	Pass
11ax (HE20)(SU)	CH116	19.08	80.91	945	Pass
11ax (HE20)(SU)	CH140	19.59	90.99	945	Pass
11ax (HE40)(SU)	CH102	20.92	123.67	1000	Pass
11ax (HE40)(SU)	CH118	20.79	120.03	1000	Pass
11ax (HE40)(SU)	CH134	21.53	142.32	1000	Pass
11ax (HE80)(SU)	CH106	22.04	159.87	1000	Pass
11ax (HE80)(SU)	CH122	21.93	155.87	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	19.86	96.84	Pass
11a	CH157	19.99	99.78	Pass
11a	CH165	20.28	106.67	Pass
11n (HT20)	CH149	19.41	87.36	Pass
11n (HT20)	CH157	19.72	93.82	Pass
11n (HT20)	CH165	19.96	99.15	Pass
11n (HT40)	CH151	21.09	128.46	Pass
11n (HT40)	CH159	21.52	141.83	Pass
11ac (VHT20)	CH149	19.55	90.22	Pass
11ac (VHT20)	CH157	19.79	95.35	Pass
11ac (VHT20)	CH165	20.05	101.23	Pass
11ac (VHT40)	CH151	21.10	128.76	Pass
11ac (VHT40)	CH159	21.52	141.83	Pass
11ac (VHT80)	CH155	22.30	169.86	Pass
11ax (HE20)(SU)	CH149	19.31	85.31	Pass
11ax (HE20)(SU)	CH157	19.45	88.11	Pass
11ax (HE20)(SU)	CH165	19.74	94.19	Pass
11ax (HE40)(SU)	CH151	21.26	133.75	Pass
11ax (HE40)(SU)	CH159	21.44	139.40	Pass
11ax (HE80)(SU)	CH155	22.27	168.57	Pass

SISO-Antenna 2Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.33	34.12	250	Pass
11a	CH44	14.93	31.12	250	Pass
11a	CH48	14.71	29.58	250	Pass
11n (HT20)	CH36	15.33	34.14	250	Pass
11n (HT20)	CH44	14.33	27.12	250	Pass
11n (HT20)	CH48	14.54	28.46	250	Pass
11n (HT40)	CH38	16.09	40.62	250	Pass
11n (HT40)	CH46	16.13	41.00	250	Pass
11ac (VHT20)	CH36	15.09	32.31	250	Pass
11ac (VHT20)	CH44	14.83	30.43	250	Pass
11ac (VHT20)	CH48	14.30	26.93	250	Pass
11ac (VHT40)	CH38	15.97	39.52	250	Pass
11ac (VHT40)	CH46	15.51	35.54	250	Pass
11ac (VHT80)	CH42	17.58	57.29	250	Pass
11ax (HE20)(SU)	CH36	15.16	32.81	250	Pass
11ax (HE20)(SU)	CH44	14.64	29.11	250	Pass
11ax (HE20)(SU)	CH48	14.43	27.73	250	Pass
11ax (HE40)(SU)	CH38	16.11	40.86	250	Pass
11ax (HE40)(SU)	CH46	16.00	39.84	250	Pass
11ax (HE80)(SU)	CH42	17.71	58.99	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	14.73	29.72	232	Pass
11a	CH60	14.39	27.48	232	Pass
11a	CH64	14.61	28.91	232	Pass
11n (HT20)	CH52	15.37	34.46	243	Pass
11n (HT20)	CH60	14.54	28.46	243	Pass
11n (HT20)	CH64	14.43	27.75	244	Pass
11n (HT40)	CH54	16.64	46.11	250	Pass
11n (HT40)	CH62	15.59	36.21	250	Pass
11ac (VHT20)	CH52	15.82	38.22	232	Pass
11ac (VHT20)	CH60	14.46	27.94	232	Pass
11ac (VHT20)	CH64	14.45	27.88	232	Pass
11ac (VHT40)	CH54	16.55	45.16	250	Pass
11ac (VHT40)	CH62	15.80	38.00	250	Pass
11ac (VHT80)	CH58	17.51	56.37	250	Pass
11ax (HE20)(SU)	CH52	15.39	34.59	232	Pass
11ax (HE20)(SU)	CH60	14.85	30.55	232	Pass
11ax (HE20)(SU)	CH64	14.35	27.23	232	Pass
11ax (HE40)(SU)	CH54	16.39	43.58	250	Pass
11ax (HE40)(SU)	CH62	15.73	37.44	250	Pass
11ax (HE80)(SU)	CH58	17.78	59.95	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	15.19	33.04	232	Pass
11a	CH116	15.53	35.73	232	Pass
11a	CH140	15.88	38.73	232	Pass
11n (HT20)	CH100	14.74	29.81	243	Pass
11n (HT20)	CH116	15.00	31.64	243	Pass
11n (HT20)	CH140	15.70	37.18	243	Pass
11n (HT40)	CH102	16.56	45.27	250	Pass
11n (HT40)	CH118	16.52	44.85	250	Pass
11n (HT40)	CH134	17.44	55.43	250	Pass
11ac (VHT20)	CH100	15.24	33.44	232	Pass
11ac (VHT20)	CH116	14.93	31.14	232	Pass
11ac (VHT20)	CH140	15.44	35.02	232	Pass
11ac (VHT40)	CH102	16.90	48.95	250	Pass
11ac (VHT40)	CH118	16.51	44.75	250	Pass
11ac (VHT40)	CH134	17.28	53.43	250	Pass
11ac (VHT80)	CH106	17.44	55.47	250	Pass
11ac (VHT80)	CH122	17.32	53.96	250	Pass
11ax (HE20)(SU)	CH100	14.91	30.97	250	Pass
11ax (HE20)(SU)	CH116	14.51	28.25	250	Pass
11ax (HE20)(SU)	CH140	14.92	31.05	250	Pass
11ax (HE40)(SU)	CH102	16.25	42.20	250	Pass
11ax (HE40)(SU)	CH118	16.62	45.95	250	Pass
11ax (HE40)(SU)	CH134	17.16	52.03	250	Pass
11ax (HE80)(SU)	CH106	17.37	54.55	250	Pass
11ax (HE80)(SU)	CH122	17.56	56.99	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.73	37.41	1000	Pass
11a	CH157	15.66	36.82	1000	Pass
11a	CH165	16.45	44.16	1000	Pass
11n (HT20)	CH149	15.28	33.75	1000	Pass
11n (HT20)	CH157	15.49	35.42	1000	Pass
11n (HT20)	CH165	15.83	38.31	1000	Pass
11n (HT40)	CH151	17.36	54.42	1000	Pass
11n (HT40)	CH159	17.59	57.38	1000	Pass
11ac (VHT20)	CH149	15.32	34.06	1000	Pass
11ac (VHT20)	CH157	15.56	36.00	1000	Pass
11ac (VHT20)	CH165	16.02	40.02	1000	Pass
11ac (VHT40)	CH151	16.77	47.51	1000	Pass
11ac (VHT40)	CH159	17.79	60.09	1000	Pass
11ac (VHT80)	CH155	18.07	64.13	1000	Pass
11ax (HE20)(SU)	CH149	15.08	32.21	1000	Pass
11ax (HE20)(SU)	CH157	15.72	37.33	1000	Pass
11ax (HE20)(SU)	CH165	15.81	38.11	1000	Pass
11ax (HE40)(SU)	CH151	16.93	49.35	1000	Pass
11ax (HE40)(SU)	CH159	17.51	56.40	1000	Pass
11ax (HE80)(SU)	CH155	18.54	71.41	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	18.79	75.69	163	Pass
11a	CH44	18.39	69.03	163	Pass
11a	CH48	18.17	65.62	163	Pass
11n (HT20)	CH36	18.79	75.74	175	Pass
11n (HT20)	CH44	17.79	60.16	175	Pass
11n (HT20)	CH48	18.00	63.14	175	Pass
11n (HT40)	CH38	19.55	90.11	200	Pass
11n (HT40)	CH46	19.59	90.94	200	Pass
11ac (VHT20)	CH36	18.55	71.66	163	Pass
11ac (VHT20)	CH44	18.29	67.50	163	Pass
11ac (VHT20)	CH48	17.76	59.75	163	Pass
11ac (VHT40)	CH38	19.43	87.66	200	Pass
11ac (VHT40)	CH46	18.97	78.85	200	Pass
11ac (VHT80)	CH42	21.04	127.08	200	Pass
11ax (HE20)(SU)	CH36	18.62	72.78	163	Pass
11ax (HE20)(SU)	CH44	18.10	64.57	163	Pass
11ax (HE20)(SU)	CH48	17.89	61.52	163	Pass
11ax (HE40)(SU)	CH38	19.57	90.63	200	Pass
11ax (HE40)(SU)	CH46	19.46	88.36	200	Pass
11ax (HE80)(SU)	CH42	21.17	130.85	200	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	18.19	65.92	818	Pass
11a	CH60	17.85	60.96	818	Pass
11a	CH64	18.07	64.13	818	Pass
11n (HT20)	CH52	18.83	76.44	877	Pass
11n (HT20)	CH60	18.00	63.14	876	Pass
11n (HT20)	CH64	17.89	61.56	877	Pass
11n (HT40)	CH54	20.10	102.28	1000	Pass
11n (HT40)	CH62	19.05	80.31	1000	Pass
11ac (VHT20)	CH52	19.28	84.78	818	Pass
11ac (VHT20)	CH60	17.92	61.99	818	Pass
11ac (VHT20)	CH64	17.91	61.84	818	Pass
11ac (VHT40)	CH54	20.01	100.18	1000	Pass
11ac (VHT40)	CH62	19.26	84.29	1000	Pass
11ac (VHT80)	CH58	20.97	125.05	1000	Pass
11ax (HE20)(SU)	CH52	18.85	76.74	818	Pass
11ax (HE20)(SU)	CH60	18.31	67.77	818	Pass
11ax (HE20)(SU)	CH64	17.81	60.40	819	Pass
11ax (HE40)(SU)	CH54	19.85	96.67	1000	Pass
11ax (HE40)(SU)	CH62	19.19	83.04	1000	Pass
11ax (HE80)(SU)	CH58	21.24	132.98	1000	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	19.46	88.32	818	Pass
11a	CH116	19.80	95.51	818	Pass
11a	CH140	20.15	103.52	818	Pass
11n (HT20)	CH100	19.01	79.67	877	Pass
11n (HT20)	CH116	19.27	84.59	877	Pass
11n (HT20)	CH140	19.97	99.38	876	Pass
11n (HT40)	CH102	20.83	121.00	1000	Pass
11n (HT40)	CH118	20.79	119.89	1000	Pass
11n (HT40)	CH134	21.71	148.18	1000	Pass
11ac (VHT20)	CH100	19.51	89.39	819	Pass
11ac (VHT20)	CH116	19.20	83.23	818	Pass
11ac (VHT20)	CH140	19.71	93.61	818	Pass
11ac (VHT40)	CH102	21.17	130.85	1000	Pass
11ac (VHT40)	CH118	20.78	119.61	1000	Pass
11ac (VHT40)	CH134	21.55	142.82	1000	Pass
11ac (VHT80)	CH106	21.71	148.28	1000	Pass
11ac (VHT80)	CH122	21.59	144.24	1000	Pass
11ax (HE20)(SU)	CH100	19.18	82.80	945	Pass
11ax (HE20)(SU)	CH116	18.78	75.51	945	Pass
11ax (HE20)(SU)	CH140	19.19	82.99	945	Pass
11ax (HE40)(SU)	CH102	20.52	112.79	1000	Pass
11ax (HE40)(SU)	CH118	20.89	122.82	1000	Pass
11ax (HE40)(SU)	CH134	21.43	139.08	1000	Pass
11ax (HE80)(SU)	CH106	21.64	145.81	1000	Pass
11ax (HE80)(SU)	CH122	21.83	152.33	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	19.66	92.48	Pass
11a	CH157	19.59	91.00	Pass
11a	CH165	20.38	109.15	Pass
11n (HT20)	CH149	19.21	83.43	Pass
11n (HT20)	CH157	19.42	87.56	Pass
11n (HT20)	CH165	19.76	94.69	Pass
11n (HT40)	CH151	21.29	134.52	Pass
11n (HT40)	CH159	21.52	141.83	Pass
11ac (VHT20)	CH149	19.25	84.20	Pass
11ac (VHT20)	CH157	19.49	88.98	Pass
11ac (VHT20)	CH165	19.95	98.92	Pass
11ac (VHT40)	CH151	20.70	117.43	Pass
11ac (VHT40)	CH159	21.72	148.52	Pass
11ac (VHT80)	CH155	22.00	158.52	Pass
11ax (HE20)(SU)	CH149	19.01	79.62	Pass
11ax (HE20)(SU)	CH157	19.65	92.26	Pass
11ax (HE20)(SU)	CH165	19.74	94.19	Pass
11ax (HE40)(SU)	CH151	20.86	121.98	Pass
11ax (HE40)(SU)	CH159	21.44	139.40	Pass
11ax (HE80)(SU)	CH155	22.47	176.51	Pass

MIMO-Antenna 1Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	12.63	18.32	224.39	Pass
11a	CH44	11.53	14.22	224.39	Pass
11a	CH48	11.31	13.52	224.39	Pass
11n (HT20)	CH36	12.03	15.97	250	Pass
11n (HT20)	CH44	11.73	14.90	250	Pass
11n (HT20)	CH48	11.24	13.31	250	Pass
11n (HT40)	CH38	13.19	20.83	250	Pass
11n (HT40)	CH46	12.93	19.62	250	Pass
11ac (VHT20)	CH36	12.09	16.19	250	Pass
11ac (VHT20)	CH44	11.33	13.59	250	Pass
11ac (VHT20)	CH48	11.30	13.50	250	Pass
11ac (VHT40)	CH38	13.07	20.27	250	Pass
11ac (VHT40)	CH46	13.11	20.45	250	Pass
11ac (VHT80)	CH42	14.58	28.71	250	Pass
11ax (HE20)(SU)	CH36	12.36	17.22	250	Pass
11ax (HE20)(SU)	CH44	11.74	14.93	250	Pass
11ax (HE20)(SU)	CH48	11.13	12.97	250	Pass
11ax (HE40)(SU)	CH38	13.41	21.94	250	Pass
11ax (HE40)(SU)	CH46	12.90	19.51	250	Pass
11ax (HE80)(SU)	CH42	14.41	27.59	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	11.93	15.60	207.97	Pass
11a	CH60	11.69	14.76	207.97	Pass
11a	CH64	11.41	13.84	207.97	Pass
11n (HT20)	CH52	12.47	17.67	243	Pass
11n (HT20)	CH60	11.14	13.01	243	Pass
11n (HT20)	CH64	11.13	12.98	244	Pass
11n (HT40)	CH54	13.44	22.07	250	Pass
11n (HT40)	CH62	13.09	20.36	250	Pass
11ac (VHT20)	CH52	12.22	16.68	232	Pass
11ac (VHT20)	CH60	11.66	14.67	232	Pass
11ac (VHT20)	CH64	10.95	12.45	232	Pass
11ac (VHT40)	CH54	13.55	22.63	250	Pass
11ac (VHT40)	CH62	12.90	19.49	250	Pass
11ac (VHT80)	CH58	15.01	31.70	250	Pass
11ax (HE20)(SU)	CH52	12.69	18.58	232	Pass
11ax (HE20)(SU)	CH60	11.95	15.67	232	Pass
11ax (HE20)(SU)	CH64	10.95	12.45	232	Pass
11ax (HE40)(SU)	CH54	13.89	24.51	250	Pass
11ax (HE40)(SU)	CH62	12.73	18.76	250	Pass
11ax (HE80)(SU)	CH58	14.68	29.36	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.59	18.16	172.58	Pass
11a	CH116	12.53	17.91	172.58	Pass
11a	CH140	12.98	19.86	172.58	Pass
11n (HT20)	CH100	11.74	14.94	243	Pass
11n (HT20)	CH116	11.70	14.80	243	Pass
11n (HT20)	CH140	12.40	17.39	243	Pass
11n (HT40)	CH102	13.66	23.22	250	Pass
11n (HT40)	CH118	13.72	23.54	250	Pass
11n (HT40)	CH134	14.54	28.43	250	Pass
11ac (VHT20)	CH100	12.24	16.76	232	Pass
11ac (VHT20)	CH116	12.03	15.97	232	Pass
11ac (VHT20)	CH140	12.74	18.81	232	Pass
11ac (VHT40)	CH102	13.80	23.98	250	Pass
11ac (VHT40)	CH118	13.91	24.59	250	Pass
11ac (VHT40)	CH134	14.48	28.04	250	Pass
11ac (VHT80)	CH106	14.74	29.79	250	Pass
11ac (VHT80)	CH122	14.52	28.32	250	Pass
11ax (HE20)(SU)	CH100	12.01	15.89	250	Pass
11ax (HE20)(SU)	CH116	11.91	15.52	250	Pass
11ax (HE20)(SU)	CH140	12.02	15.92	250	Pass
11ax (HE40)(SU)	CH102	13.35	21.64	250	Pass
11ax (HE40)(SU)	CH118	13.12	20.52	250	Pass
11ax (HE40)(SU)	CH134	14.26	26.69	250	Pass
11ax (HE80)(SU)	CH106	14.47	27.98	250	Pass
11ax (HE80)(SU)	CH122	14.26	26.65	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.03	20.09	805.38	Pass
11a	CH157	13.26	21.19	805.38	Pass
11a	CH165	13.25	21.14	805.38	Pass
11n (HT20)	CH149	12.18	16.53	1000	Pass
11n (HT20)	CH157	12.49	17.75	1000	Pass
11n (HT20)	CH165	12.73	18.76	1000	Pass
11n (HT40)	CH151	14.16	26.05	1000	Pass
11n (HT40)	CH159	14.29	26.84	1000	Pass
11ac (VHT20)	CH149	12.32	17.07	1000	Pass
11ac (VHT20)	CH157	12.66	18.46	1000	Pass
11ac (VHT20)	CH165	13.32	21.49	1000	Pass
11ac (VHT40)	CH151	13.77	23.81	1000	Pass
11ac (VHT40)	CH159	14.19	26.23	1000	Pass
11ac (VHT80)	CH155	14.97	31.41	1000	Pass
11ax (HE20)(SU)	CH149	12.18	16.52	1000	Pass
11ax (HE20)(SU)	CH157	12.52	17.87	1000	Pass
11ax (HE20)(SU)	CH165	12.41	17.42	1000	Pass
11ax (HE40)(SU)	CH151	13.93	24.73	1000	Pass
11ax (HE40)(SU)	CH159	14.31	26.99	1000	Pass
11ax (HE80)(SU)	CH155	15.14	32.64	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	16.09	40.65	163	Pass
11a	CH44	14.99	31.55	163	Pass
11a	CH48	14.77	29.99	163	Pass
11n (HT20)	CH36	15.49	35.42	175	Pass
11n (HT20)	CH44	15.19	33.06	175	Pass
11n (HT20)	CH48	14.70	29.53	175	Pass
11n (HT40)	CH38	16.65	46.21	200	Pass
11n (HT40)	CH46	16.39	43.53	200	Pass
11ac (VHT20)	CH36	15.55	35.92	163	Pass
11ac (VHT20)	CH44	14.79	30.15	163	Pass
11ac (VHT20)	CH48	14.76	29.94	163	Pass
11ac (VHT40)	CH38	16.53	44.95	200	Pass
11ac (VHT40)	CH46	16.57	45.37	200	Pass
11ac (VHT80)	CH42	18.04	63.69	200	Pass
11ax (HE20)(SU)	CH36	15.82	38.20	163	Pass
11ax (HE20)(SU)	CH44	15.20	33.11	163	Pass
11ax (HE20)(SU)	CH48	14.59	28.77	163	Pass
11ax (HE40)(SU)	CH38	16.87	48.67	200	Pass
11ax (HE40)(SU)	CH46	16.36	43.28	200	Pass
11ax (HE80)(SU)	CH42	17.87	61.20	200	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	15.39	34.60	818	Pass
11a	CH60	15.15	32.74	818	Pass
11a	CH64	14.87	30.69	818	Pass
11n (HT20)	CH52	15.93	39.20	877	Pass
11n (HT20)	CH60	14.60	28.86	876	Pass
11n (HT20)	CH64	14.59	28.79	877	Pass
11n (HT40)	CH54	16.90	48.95	1000	Pass
11n (HT40)	CH62	16.55	45.16	1000	Pass
11ac (VHT20)	CH52	15.68	37.01	818	Pass
11ac (VHT20)	CH60	15.12	32.53	818	Pass
11ac (VHT20)	CH64	14.41	27.63	818	Pass
11ac (VHT40)	CH54	17.01	50.21	1000	Pass
11ac (VHT40)	CH62	16.36	43.23	1000	Pass
11ac (VHT80)	CH58	18.47	70.32	1000	Pass
11ax (HE20)(SU)	CH52	16.15	41.21	818	Pass
11ax (HE20)(SU)	CH60	15.41	34.75	818	Pass
11ax (HE20)(SU)	CH64	14.41	27.61	819	Pass
11ax (HE40)(SU)	CH54	17.35	54.36	1000	Pass
11ax (HE40)(SU)	CH62	16.19	41.62	1000	Pass
11ax (HE80)(SU)	CH58	18.14	65.13	1000	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	16.86	48.53	818	Pass
11a	CH116	16.80	47.87	818	Pass
11a	CH140	17.25	53.09	818	Pass
11n (HT20)	CH100	16.01	39.93	877	Pass
11n (HT20)	CH116	15.97	39.56	877	Pass
11n (HT20)	CH140	16.67	46.48	876	Pass
11n (HT40)	CH102	17.93	62.06	1000	Pass
11n (HT40)	CH118	17.99	62.92	1000	Pass
11n (HT40)	CH134	18.81	75.99	1000	Pass
11ac (VHT20)	CH100	16.51	44.80	819	Pass
11ac (VHT20)	CH116	16.30	42.69	818	Pass
11ac (VHT20)	CH140	17.01	50.27	818	Pass
11ac (VHT40)	CH102	18.07	64.09	1000	Pass
11ac (VHT40)	CH118	18.18	65.73	1000	Pass
11ac (VHT40)	CH134	18.75	74.95	1000	Pass
11ac (VHT80)	CH106	19.01	79.63	1000	Pass
11ac (VHT80)	CH122	18.79	75.70	1000	Pass
11ax (HE20)(SU)	CH100	16.28	42.46	945	Pass
11ax (HE20)(SU)	CH116	16.18	41.50	945	Pass
11ax (HE20)(SU)	CH140	16.29	42.56	945	Pass
11ax (HE40)(SU)	CH102	17.62	57.85	1000	Pass
11ax (HE40)(SU)	CH118	17.39	54.86	1000	Pass
11ax (HE40)(SU)	CH134	18.53	71.33	1000	Pass
11ax (HE80)(SU)	CH106	18.74	74.78	1000	Pass
11ax (HE80)(SU)	CH122	18.53	71.25	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	16.96	49.66	Pass
11a	CH157	17.19	52.36	Pass
11a	CH165	17.18	52.24	Pass
11n (HT20)	CH149	16.11	40.86	Pass
11n (HT20)	CH157	16.42	43.88	Pass
11n (HT20)	CH165	16.66	46.38	Pass
11n (HT40)	CH151	18.09	64.38	Pass
11n (HT40)	CH159	18.22	66.34	Pass
11ac (VHT20)	CH149	16.25	42.20	Pass
11ac (VHT20)	CH157	16.59	45.64	Pass
11ac (VHT20)	CH165	17.25	53.13	Pass
11ac (VHT40)	CH151	17.70	58.85	Pass
11ac (VHT40)	CH159	18.12	64.83	Pass
11ac (VHT80)	CH155	18.90	77.64	Pass
11ax (HE20)(SU)	CH149	16.11	40.83	Pass
11ax (HE20)(SU)	CH157	16.45	44.16	Pass
11ax (HE20)(SU)	CH165	16.34	43.05	Pass
11ax (HE40)(SU)	CH151	17.86	61.13	Pass
11ax (HE40)(SU)	CH159	18.24	66.72	Pass
11ax (HE80)(SU)	CH155	19.07	80.68	Pass

MIMO-Antenna 2Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	12.33	17.10	224.39	Pass
11a	CH44	11.33	13.58	224.39	Pass
11a	CH48	11.21	13.21	224.39	Pass
11n (HT20)	CH36	12.03	15.97	250	Pass
11n (HT20)	CH44	11.33	13.59	250	Pass
11n (HT20)	CH48	11.34	13.62	250	Pass
11n (HT40)	CH38	13.19	20.83	250	Pass
11n (HT40)	CH46	12.73	18.74	250	Pass
11ac (VHT20)	CH36	11.89	15.46	250	Pass
11ac (VHT20)	CH44	11.83	15.25	250	Pass
11ac (VHT20)	CH48	11.50	14.14	250	Pass
11ac (VHT40)	CH38	13.27	21.22	250	Pass
11ac (VHT40)	CH46	12.81	19.09	250	Pass
11ac (VHT80)	CH42	14.48	28.06	250	Pass
11ax (HE20)(SU)	CH36	12.56	18.03	250	Pass
11ax (HE20)(SU)	CH44	11.44	13.93	250	Pass
11ax (HE20)(SU)	CH48	11.63	14.55	250	Pass
11ax (HE40)(SU)	CH38	13.01	20.01	250	Pass
11ax (HE40)(SU)	CH46	12.70	18.63	250	Pass
11ax (HE80)(SU)	CH42	14.71	29.56	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	11.73	14.89	207.97	Pass
11a	CH60	11.39	13.77	207.97	Pass
11a	CH64	11.11	12.91	207.97	Pass
11n (HT20)	CH52	12.17	16.49	243	Pass
11n (HT20)	CH60	11.54	14.27	243	Pass
11n (HT20)	CH64	10.93	12.40	244	Pass
11n (HT40)	CH54	13.84	24.20	250	Pass
11n (HT40)	CH62	12.79	19.00	250	Pass
11ac (VHT20)	CH52	12.52	17.88	232	Pass
11ac (VHT20)	CH60	11.56	14.33	232	Pass
11ac (VHT20)	CH64	11.45	13.97	232	Pass
11ac (VHT40)	CH54	13.85	24.25	250	Pass
11ac (VHT40)	CH62	13.10	20.41	250	Pass
11ac (VHT80)	CH58	14.91	30.98	250	Pass
11ax (HE20)(SU)	CH52	12.29	16.94	232	Pass
11ax (HE20)(SU)	CH60	11.75	14.96	232	Pass
11ax (HE20)(SU)	CH64	11.35	13.65	232	Pass
11ax (HE40)(SU)	CH54	13.99	25.08	250	Pass
11ax (HE40)(SU)	CH62	12.73	18.76	250	Pass
11ax (HE80)(SU)	CH58	14.58	28.69	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.79	19.01	172.58	Pass
11a	CH116	12.43	17.50	172.58	Pass
11a	CH140	12.58	18.12	172.58	Pass
11n (HT20)	CH100	11.94	15.64	243	Pass
11n (HT20)	CH116	12.20	16.61	243	Pass
11n (HT20)	CH140	12.20	16.61	243	Pass
11n (HT40)	CH102	13.56	22.69	250	Pass
11n (HT40)	CH118	13.62	23.00	250	Pass
11n (HT40)	CH134	14.14	25.93	250	Pass
11ac (VHT20)	CH100	11.94	15.64	232	Pass
11ac (VHT20)	CH116	12.33	17.11	232	Pass
11ac (VHT20)	CH140	12.64	18.38	232	Pass
11ac (VHT40)	CH102	13.80	23.98	250	Pass
11ac (VHT40)	CH118	13.91	24.59	250	Pass
11ac (VHT40)	CH134	14.08	25.57	250	Pass
11ac (VHT80)	CH106	14.64	29.11	250	Pass
11ac (VHT80)	CH122	14.82	30.34	250	Pass
11ax (HE20)(SU)	CH100	12.21	16.63	250	Pass
11ax (HE20)(SU)	CH116	11.61	14.49	250	Pass
11ax (HE20)(SU)	CH140	12.52	17.87	250	Pass
11ax (HE40)(SU)	CH102	13.85	24.28	250	Pass
11ax (HE40)(SU)	CH118	13.42	21.99	250	Pass
11ax (HE40)(SU)	CH134	14.36	27.31	250	Pass
11ax (HE80)(SU)	CH106	14.87	30.67	250	Pass
11ax (HE80)(SU)	CH122	14.86	30.60	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	12.93	19.64	805.38	Pass
11a	CH157	13.26	21.19	805.38	Pass
11a	CH165	13.55	22.65	805.38	Pass
11n (HT20)	CH149	12.48	17.71	1000	Pass
11n (HT20)	CH157	12.79	19.02	1000	Pass
11n (HT20)	CH165	12.63	18.34	1000	Pass
11n (HT40)	CH151	13.96	24.88	1000	Pass
11n (HT40)	CH159	14.29	26.84	1000	Pass
11ac (VHT20)	CH149	12.72	18.72	1000	Pass
11ac (VHT20)	CH157	12.56	18.04	1000	Pass
11ac (VHT20)	CH165	12.82	19.16	1000	Pass
11ac (VHT40)	CH151	13.87	24.37	1000	Pass
11ac (VHT40)	CH159	14.49	28.10	1000	Pass
11ac (VHT80)	CH155	15.17	32.89	1000	Pass
11ax (HE20)(SU)	CH149	12.48	17.70	1000	Pass
11ax (HE20)(SU)	CH157	12.52	17.87	1000	Pass
11ax (HE20)(SU)	CH165	12.41	17.42	1000	Pass
11ax (HE40)(SU)	CH151	14.13	25.90	1000	Pass
11ax (HE40)(SU)	CH159	14.21	26.38	1000	Pass
11ax (HE80)(SU)	CH155	15.24	33.40	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	15.79	37.94	163	Pass
11a	CH44	14.79	30.13	163	Pass
11a	CH48	14.67	29.31	163	Pass
11n (HT20)	CH36	15.49	35.42	175	Pass
11n (HT20)	CH44	14.79	30.15	175	Pass
11n (HT20)	CH48	14.80	30.22	175	Pass
11n (HT40)	CH38	16.65	46.21	200	Pass
11n (HT40)	CH46	16.19	41.57	200	Pass
11ac (VHT20)	CH36	15.35	34.30	163	Pass
11ac (VHT20)	CH44	15.29	33.83	163	Pass
11ac (VHT20)	CH48	14.96	31.35	163	Pass
11ac (VHT40)	CH38	16.73	47.07	200	Pass
11ac (VHT40)	CH46	16.27	42.34	200	Pass
11ac (VHT80)	CH42	17.94	62.24	200	Pass
11ax (HE20)(SU)	CH36	16.02	40.00	163	Pass
11ax (HE20)(SU)	CH44	14.90	30.90	163	Pass
11ax (HE20)(SU)	CH48	15.09	32.29	163	Pass
11ax (HE40)(SU)	CH38	16.47	44.39	200	Pass
11ax (HE40)(SU)	CH46	16.16	41.33	200	Pass
11ax (HE80)(SU)	CH42	18.17	65.58	200	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	15.19	33.04	818	Pass
11a	CH60	14.85	30.55	818	Pass
11a	CH64	14.57	28.64	818	Pass
11n (HT20)	CH52	15.63	36.59	877	Pass
11n (HT20)	CH60	15.00	31.64	876	Pass
11n (HT20)	CH64	14.39	27.50	877	Pass
11n (HT40)	CH54	17.30	53.68	1000	Pass
11n (HT40)	CH62	16.25	42.15	1000	Pass
11ac (VHT20)	CH52	15.98	39.66	818	Pass
11ac (VHT20)	CH60	15.02	31.79	818	Pass
11ac (VHT20)	CH64	14.91	31.00	818	Pass
11ac (VHT40)	CH54	17.31	53.80	1000	Pass
11ac (VHT40)	CH62	16.56	45.27	1000	Pass
11ac (VHT80)	CH58	18.37	68.72	1000	Pass
11ax (HE20)(SU)	CH52	15.75	37.58	818	Pass
11ax (HE20)(SU)	CH60	15.21	33.19	818	Pass
11ax (HE20)(SU)	CH64	14.81	30.27	819	Pass
11ax (HE40)(SU)	CH54	17.45	55.63	1000	Pass
11ax (HE40)(SU)	CH62	16.19	41.62	1000	Pass
11ax (HE80)(SU)	CH58	18.04	63.65	1000	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	17.06	50.82	818	Pass
11a	CH116	16.70	46.78	818	Pass
11a	CH140	16.85	48.42	818	Pass
11n (HT20)	CH100	16.21	41.81	877	Pass
11n (HT20)	CH116	16.47	44.39	877	Pass
11n (HT20)	CH140	16.47	44.39	876	Pass
11n (HT40)	CH102	17.83	60.64	1000	Pass
11n (HT40)	CH118	17.89	61.49	1000	Pass
11n (HT40)	CH134	18.41	69.31	1000	Pass
11ac (VHT20)	CH100	16.21	41.81	819	Pass
11ac (VHT20)	CH116	16.60	45.74	818	Pass
11ac (VHT20)	CH140	16.91	49.13	818	Pass
11ac (VHT40)	CH102	18.07	64.09	1000	Pass
11ac (VHT40)	CH118	18.18	65.73	1000	Pass
11ac (VHT40)	CH134	18.35	68.36	1000	Pass
11ac (VHT80)	CH106	18.91	77.82	1000	Pass
11ac (VHT80)	CH122	19.09	81.11	1000	Pass
11ax (HE20)(SU)	CH100	16.48	44.46	945	Pass
11ax (HE20)(SU)	CH116	15.88	38.73	945	Pass
11ax (HE20)(SU)	CH140	16.79	47.75	945	Pass
11ax (HE40)(SU)	CH102	18.12	64.90	1000	Pass
11ax (HE40)(SU)	CH118	17.69	58.79	1000	Pass
11ax (HE40)(SU)	CH134	18.63	72.99	1000	Pass
11ax (HE80)(SU)	CH106	19.14	81.99	1000	Pass
11ax (HE80)(SU)	CH122	19.13	81.80	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	16.86	48.53	Pass
11a	CH157	17.19	52.36	Pass
11a	CH165	17.48	55.98	Pass
11n (HT20)	CH149	16.41	43.78	Pass
11n (HT20)	CH157	16.72	47.02	Pass
11n (HT20)	CH165	16.56	45.32	Pass
11n (HT40)	CH151	17.89	61.49	Pass
11n (HT40)	CH159	18.22	66.34	Pass
11ac (VHT20)	CH149	16.65	46.27	Pass
11ac (VHT20)	CH157	16.49	44.60	Pass
11ac (VHT20)	CH165	16.75	47.35	Pass
11ac (VHT40)	CH151	17.80	60.23	Pass
11ac (VHT40)	CH159	18.42	69.47	Pass
11ac (VHT80)	CH155	19.10	81.30	Pass
11ax (HE20)(SU)	CH149	16.41	43.75	Pass
11ax (HE20)(SU)	CH157	16.45	44.16	Pass
11ax (HE20)(SU)	CH165	16.34	43.05	Pass
11ax (HE40)(SU)	CH151	18.06	64.01	Pass
11ax (HE40)(SU)	CH159	18.14	65.20	Pass
11ax (HE80)(SU)	CH155	19.17	82.56	Pass

MIMOConducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.49	35.43	224.39	Pass
11a	CH44	14.44	27.81	224.39	Pass
11a	CH48	14.27	26.74	224.39	Pass
11n (HT20)	CH36	15.04	31.94	250	Pass
11n (HT20)	CH44	14.55	28.50	250	Pass
11n (HT20)	CH48	14.30	26.94	250	Pass
11n (HT40)	CH38	16.20	41.67	250	Pass
11n (HT40)	CH46	15.84	38.36	250	Pass
11ac (VHT20)	CH36	15.00	31.66	250	Pass
11ac (VHT20)	CH44	14.60	28.84	250	Pass
11ac (VHT20)	CH48	14.41	27.63	250	Pass
11ac (VHT40)	CH38	16.18	41.49	250	Pass
11ac (VHT40)	CH46	15.97	39.54	250	Pass
11ac (VHT80)	CH42	17.54	56.77	250	Pass
11ax (HE20)(SU)	CH36	15.47	35.25	250	Pass
11ax (HE20)(SU)	CH44	14.60	28.86	250	Pass
11ax (HE20)(SU)	CH48	14.40	27.53	250	Pass
11ax (HE40)(SU)	CH38	16.23	41.95	250	Pass
11ax (HE40)(SU)	CH46	15.81	38.14	250	Pass
11ax (HE80)(SU)	CH42	17.57	57.16	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	14.84	30.49	207.97	Pass
11a	CH60	14.55	28.53	207.97	Pass
11a	CH64	14.27	26.75	207.97	Pass
11n (HT20)	CH52	15.34	34.17	243	Pass
11n (HT20)	CH60	14.36	27.28	243	Pass
11n (HT20)	CH64	14.04	25.38	244	Pass
11n (HT40)	CH54	16.65	46.27	250	Pass
11n (HT40)	CH62	15.95	39.36	250	Pass
11ac (VHT20)	CH52	15.39	34.56	232	Pass
11ac (VHT20)	CH60	14.62	29.00	232	Pass
11ac (VHT20)	CH64	14.22	26.43	232	Pass
11ac (VHT40)	CH54	16.71	46.89	250	Pass
11ac (VHT40)	CH62	16.01	39.90	250	Pass
11ac (VHT80)	CH58	17.97	62.68	250	Pass
11ax (HE20)(SU)	CH52	15.50	35.52	232	Pass
11ax (HE20)(SU)	CH60	14.86	30.63	232	Pass
11ax (HE20)(SU)	CH64	14.16	26.09	232	Pass
11ax (HE40)(SU)	CH54	16.95	49.58	250	Pass
11ax (HE40)(SU)	CH62	15.74	37.52	250	Pass
11ax (HE80)(SU)	CH58	17.64	58.05	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	15.70	37.17	172.58	Pass
11a	CH116	15.49	35.41	172.58	Pass
11a	CH140	15.80	37.98	172.58	Pass
11n (HT20)	CH100	14.85	30.58	243	Pass
11n (HT20)	CH116	14.97	31.41	243	Pass
11n (HT20)	CH140	15.31	34.00	243	Pass
11n (HT40)	CH102	16.62	45.90	250	Pass
11n (HT40)	CH118	16.68	46.54	250	Pass
11n (HT40)	CH134	17.35	54.36	250	Pass
11ac (VHT20)	CH100	15.11	32.40	232	Pass
11ac (VHT20)	CH116	15.20	33.08	232	Pass
11ac (VHT20)	CH140	15.70	37.18	232	Pass
11ac (VHT40)	CH102	16.81	47.95	250	Pass
11ac (VHT40)	CH118	16.92	49.18	250	Pass
11ac (VHT40)	CH134	17.29	53.61	250	Pass
11ac (VHT80)	CH106	17.70	58.90	250	Pass
11ac (VHT80)	CH122	17.68	58.66	250	Pass
11ax (HE20)(SU)	CH100	15.12	32.52	250	Pass
11ax (HE20)(SU)	CH116	14.77	30.01	250	Pass
11ax (HE20)(SU)	CH140	15.29	33.79	250	Pass
11ax (HE40)(SU)	CH102	16.62	45.92	250	Pass
11ax (HE40)(SU)	CH118	16.29	42.52	250	Pass
11ax (HE40)(SU)	CH134	17.32	53.99	250	Pass
11ax (HE80)(SU)	CH106	17.68	58.65	250	Pass
11ax (HE80)(SU)	CH122	17.58	57.26	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.99	39.73	805.38	Pass
11a	CH157	16.27	42.37	805.38	Pass
11a	CH165	16.41	43.79	805.38	Pass
11n (HT20)	CH149	15.35	34.24	1000	Pass
11n (HT20)	CH157	15.66	36.78	1000	Pass
11n (HT20)	CH165	15.69	37.10	1000	Pass
11n (HT40)	CH151	17.07	50.92	1000	Pass
11n (HT40)	CH159	17.30	53.68	1000	Pass
11ac (VHT20)	CH149	15.54	35.79	1000	Pass
11ac (VHT20)	CH157	15.62	36.51	1000	Pass
11ac (VHT20)	CH165	16.09	40.65	1000	Pass
11ac (VHT40)	CH151	16.83	48.18	1000	Pass
11ac (VHT40)	CH159	17.35	54.33	1000	Pass
11ac (VHT80)	CH155	18.08	64.30	1000	Pass
11ax (HE20)(SU)	CH149	15.34	34.22	1000	Pass
11ax (HE20)(SU)	CH157	15.53	35.73	1000	Pass
11ax (HE20)(SU)	CH165	15.42	34.84	1000	Pass
11ax (HE40)(SU)	CH151	17.04	50.63	1000	Pass
11ax (HE40)(SU)	CH159	17.27	53.37	1000	Pass
11ax (HE80)(SU)	CH155	18.20	66.04	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	18.95	78.58	163	Pass
11a	CH44	17.90	61.69	163	Pass
11a	CH48	17.73	59.31	163	Pass
11n (HT20)	CH36	18.50	70.85	175	Pass
11n (HT20)	CH44	18.01	63.21	175	Pass
11n (HT20)	CH48	17.76	59.75	175	Pass
11n (HT40)	CH38	19.66	92.43	250	Pass
11n (HT40)	CH46	19.30	85.10	250	Pass
11ac (VHT20)	CH36	18.46	70.22	163	Pass
11ac (VHT20)	CH44	18.06	63.98	163	Pass
11ac (VHT20)	CH48	17.87	61.30	163	Pass
11ac (VHT40)	CH38	19.64	92.03	250	Pass
11ac (VHT40)	CH46	19.43	87.71	250	Pass
11ac (VHT80)	CH42	21.00	125.93	250	Pass
11ax (HE20)(SU)	CH36	18.93	78.19	163	Pass
11ax (HE20)(SU)	CH44	18.06	64.02	163	Pass
11ax (HE20)(SU)	CH48	17.86	61.06	163	Pass
11ax (HE40)(SU)	CH38	19.69	93.06	250	Pass
11ax (HE40)(SU)	CH46	19.27	84.61	250	Pass
11ax (HE80)(SU)	CH42	21.03	126.78	250	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	18.30	67.64	818	Pass
11a	CH60	18.01	63.29	818	Pass
11a	CH64	17.73	59.34	818	Pass
11n (HT20)	CH52	18.80	75.79	877	Pass
11n (HT20)	CH60	17.82	60.51	876	Pass
11n (HT20)	CH64	17.50	56.29	877	Pass
11n (HT40)	CH54	20.11	102.63	1000	Pass
11n (HT40)	CH62	19.41	87.31	1000	Pass
11ac (VHT20)	CH52	18.85	76.66	818	Pass
11ac (VHT20)	CH60	18.08	64.32	818	Pass
11ac (VHT20)	CH64	17.68	58.62	818	Pass
11ac (VHT40)	CH54	20.17	104.01	1000	Pass
11ac (VHT40)	CH62	19.47	88.50	1000	Pass
11ac (VHT80)	CH58	21.43	139.04	1000	Pass
11ax (HE20)(SU)	CH52	18.96	78.80	818	Pass
11ax (HE20)(SU)	CH60	18.32	67.94	818	Pass
11ax (HE20)(SU)	CH64	17.62	57.88	819	Pass
11ax (HE40)(SU)	CH54	20.41	109.99	1000	Pass
11ax (HE40)(SU)	CH62	19.20	83.24	1000	Pass
11ax (HE80)(SU)	CH58	21.10	128.78	1000	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	19.97	99.35	818	Pass
11a	CH116	19.76	94.65	818	Pass
11a	CH140	20.07	101.52	818	Pass
11n (HT20)	CH100	19.12	81.74	877	Pass
11n (HT20)	CH116	19.24	83.96	877	Pass
11n (HT20)	CH140	19.58	90.88	876	Pass
11n (HT40)	CH102	20.89	122.70	1000	Pass
11n (HT40)	CH118	20.95	124.40	1000	Pass
11n (HT40)	CH134	21.62	145.30	1000	Pass
11ac (VHT20)	CH100	19.38	86.61	819	Pass
11ac (VHT20)	CH116	19.47	88.43	818	Pass
11ac (VHT20)	CH140	19.97	99.39	818	Pass
11ac (VHT40)	CH102	21.08	128.18	1000	Pass
11ac (VHT40)	CH118	21.19	131.46	1000	Pass
11ac (VHT40)	CH134	21.56	143.31	1000	Pass
11ac (VHT80)	CH106	21.97	157.45	1000	Pass
11ac (VHT80)	CH122	21.95	156.81	1000	Pass
11ax (HE20)(SU)	CH100	19.39	86.93	945	Pass
11ax (HE20)(SU)	CH116	19.04	80.22	945	Pass
11ax (HE20)(SU)	CH140	19.56	90.31	945	Pass
11ax (HE40)(SU)	CH102	20.89	122.75	1000	Pass
11ax (HE40)(SU)	CH118	20.56	113.65	1000	Pass
11ax (HE40)(SU)	CH134	21.59	144.32	1000	Pass
11ax (HE80)(SU)	CH106	21.95	156.77	1000	Pass
11ax (HE80)(SU)	CH122	21.85	153.05	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	19.92	98.20	Pass
11a	CH157	20.20	104.73	Pass
11a	CH165	20.34	108.23	Pass
11n (HT20)	CH149	19.28	84.64	Pass
11n (HT20)	CH157	19.59	90.91	Pass
11n (HT20)	CH165	19.62	91.70	Pass
11n (HT40)	CH151	21.00	125.87	Pass
11n (HT40)	CH159	21.23	132.68	Pass
11ac (VHT20)	CH149	19.47	88.47	Pass
11ac (VHT20)	CH157	19.55	90.23	Pass
11ac (VHT20)	CH165	20.02	100.47	Pass
11ac (VHT40)	CH151	20.76	119.08	Pass
11ac (VHT40)	CH159	21.28	134.30	Pass
11ac (VHT80)	CH155	22.01	158.94	Pass
11ax (HE20)(SU)	CH149	19.27	84.59	Pass
11ax (HE20)(SU)	CH157	19.46	88.32	Pass
11ax (HE20)(SU)	CH165	19.35	86.11	Pass
11ax (HE40)(SU)	CH151	20.97	125.15	Pass
11ax (HE40)(SU)	CH159	21.20	131.93	Pass
11ax (HE80)(SU)	CH155	22.13	163.24	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ2541655-602 Data Part 1.pdf”.

Note²: All the configurations were pre tested, but only the worst data was shown in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna 1

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	18.39	16.32
11a	CH44	18.40	16.33
11a	CH48	18.43	16.32
11n(HT20)	CH36	19.36	17.47
11n(HT20)	CH44	19.38	17.47
11n(HT20)	CH48	19.40	17.48
11n(HT40)	CH38	38.90	35.95
11n(HT40)	CH46	38.89	35.94
11ac(VHT20)	CH36	18.42	16.32
11ac(VHT20)	CH44	18.40	16.32
11ac(VHT20)	CH48	18.42	16.32
11ac(VHT40)	CH38	38.87	35.93
11ac(VHT40)	CH46	38.89	35.94
11ac(VHT80)	CH42	84.16	75.66
11ax(HE20)(SU)	CH36	18.41	16.32
11ax(HE20)(SU)	CH44	18.43	16.32
11ax(HE20)(SU)	CH48	18.42	16.33
11ax(HE40)(SU)	CH38	39.03	36.02
11ax(HE40)(SU)	CH46	39.04	36.01
11ax(HE80)(SU)	CH42	84.41	75.75

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	18.42	16.32
11a	CH60	18.43	16.32
11a	CH64	18.46	16.33
11n(HT20)	CH52	19.32	17.49
11n(HT20)	CH60	19.32	17.49
11n(HT20)	CH64	19.35	17.49
11n(HT40)	CH54	39.02	36.01
11n(HT40)	CH62	39.01	36.06
11ac(VHT20)	CH52	18.42	16.32
11ac(VHT20)	CH60	18.45	16.33
11ac(VHT20)	CH64	18.43	16.32
11ac(VHT40)	CH54	39.03	36.02
11ac(VHT40)	CH62	38.99	36.02
11ac(VHT80)	CH58	84.27	75.73
11ax(HE20)(SU)	CH52	18.44	16.32
11ax(HE20)(SU)	CH60	18.42	16.32
11ax(HE20)(SU)	CH64	18.43	16.33
11ax(HE40)(SU)	CH54	39.02	36.02
11ax(HE40)(SU)	CH62	39.02	36.04
11ax(HE80)(SU)	CH58	84.29	75.75

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	18.46	16.32
11a	CH116	18.42	16.33
11a	CH140	18.41	16.32
11n(HT20)	CH100	19.32	17.49
11n(HT20)	CH116	19.32	17.49
11n(HT20)	CH140	19.31	17.48
11n(HT40)	CH102	39.05	36.02
11n(HT40)	CH118	39.07	36.01
11n(HT40)	CH134	39.06	36.03
11ac(VHT20)	CH100	18.45	16.33
11ac(VHT20)	CH116	18.41	16.32
11ac(VHT20)	CH140	18.39	16.33
11ac(VHT40)	CH102	39.07	36.03
11ac(VHT40)	CH118	39.09	36.02
11ac(VHT40)	CH134	39.05	36.00
11ac(VHT80)	CH106	84.19	75.76
11ac(VHT80)	CH122	84.36	75.82
11ax(HE20)(SU)	CH100	20.23	18.85
11ax(HE20)(SU)	CH116	20.22	18.85
11ax(HE20)(SU)	CH140	20.20	18.85
11ax(HE40)(SU)	CH102	39.97	36.66
11ax(HE40)(SU)	CH118	40.02	37.64
11ax(HE40)(SU)	CH134	40.02	37.65
11ax(HE80)(SU)	CH106	80.86	76.83
11ax(HE80)(SU)	CH122	80.92	76.90

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	18.42	16.32
11a	CH157	18.43	16.33
11a	CH165	18.42	16.32
11n(HT20)	CH149	19.30	17.48
11n(HT20)	CH157	19.34	17.49
11n(HT20)	CH165	19.36	17.49
11n(HT40)	CH151	39.06	36.01
11n(HT40)	CH159	39.08	36.02
11ac(VHT20)	CH149	19.31	17.48
11ac(VHT20)	CH157	19.28	17.47
11ac(VHT20)	CH165	19.29	17.48
11ac(VHT40)	CH151	39.04	36.05
11ac(VHT40)	CH159	39.01	36.06
11ac(VHT80)	CH155	92.63	75.91
11ax(HE20)(SU)	CH149	20.20	18.86
11ax(HE20)(SU)	CH157	20.21	18.86
11ax(HE20)(SU)	CH165	20.20	18.85
11ax(HE40)(SU)	CH151	40.03	37.64
11ax(HE40)(SU)	CH159	40.01	37.67
11ax(HE80)(SU)	CH155	80.85	76.93

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2541655-602 Data Part 2.pdf”.

Note ²: All the configurations were pre tested, but only the worst data was shown in this report.

Note ³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna 1

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n(HT20)	CH149	17.40	500.00	Pass
11n(HT20)	CH157	17.50	500.00	Pass
11n(HT20)	CH165	17.20	500.00	Pass
11n(HT40)	CH151	35.90	500.00	Pass
11n(HT40)	CH159	36.10	500.00	Pass
11ac(VHT20)	CH149	17.30	500.00	Pass
11ac(VHT20)	CH157	17.40	500.00	Pass
11ac(VHT20)	CH165	16.90	500.00	Pass
11ac(VHT40)	CH151	35.60	500.00	Pass
11ac(VHT40)	CH159	35.50	500.00	Pass
11ac(VHT80)	CH155	75.30	500.00	Pass
11ax(HE20)(SU)	CH149	18.40	500.00	Pass
11ax(HE20)(SU)	CH157	18.50	500.00	Pass
11ax(HE20)(SU)	CH165	18.90	500.00	Pass
11ax(HE40)(SU)	CH151	37.80	500.00	Pass
11ax(HE40)(SU)	CH159	37.60	500.00	Pass
11ax(HE80)(SU)	CH155	76.30	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: BL-SZ2541655-602 Data Part 3.pdf”.

Note²: All the configurations were pre tested, but only the worst data was shown in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna 1

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.64	10.53	Pass
11a	CH44	1.76	10.53	Pass
11a	CH48	1.73	10.53	Pass
11n (HT20)	CH36	2.11	11.00	Pass
11n (HT20)	CH44	1.47	11.00	Pass
11n (HT20)	CH48	1.58	11.00	Pass
11n (HT40)	CH38	-1.19	11.00	Pass
11n (HT40)	CH46	-1.55	11.00	Pass
11ac (VHT20)	CH36	2.28	11.00	Pass
11ac (VHT20)	CH44	1.77	11.00	Pass
11ac (VHT20)	CH48	1.42	11.00	Pass
11ac (VHT40)	CH38	-0.85	11.00	Pass
11ac (VHT40)	CH46	-1.47	11.00	Pass
11ac (VHT80)	CH42	-4.36	11.00	Pass
11ax (HE20)(SU)	CH36	2.35	11.00	Pass
11ax (HE20)(SU)	CH44	1.73	11.00	Pass
11ax (HE20)(SU)	CH48	1.60	11.00	Pass
11ax (HE40)(SU)	CH38	-0.87	11.00	Pass
11ax (HE40)(SU)	CH46	-1.31	11.00	Pass
11ax (HE80)(SU)	CH42	-4.32	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	2.00	10.53	Pass
11a	CH60	1.92	10.53	Pass
11a	CH64	1.42	10.53	Pass
11n (HT20)	CH52	2.52	11.00	Pass
11n (HT20)	CH60	1.72	11.00	Pass
11n (HT20)	CH64	1.24	11.00	Pass
11n (HT40)	CH54	-0.41	11.00	Pass
11n (HT40)	CH62	-1.23	11.00	Pass
11ac (VHT20)	CH52	2.59	11.00	Pass
11ac (VHT20)	CH60	1.82	11.00	Pass
11ac (VHT20)	CH64	1.36	11.00	Pass
11ac (VHT40)	CH54	-0.46	11.00	Pass
11ac (VHT40)	CH62	-1.11	11.00	Pass
11ac (VHT80)	CH58	-3.93	11.00	Pass
11ax (HE20)(SU)	CH52	2.68	11.00	Pass
11ax (HE20)(SU)	CH60	1.91	11.00	Pass
11ax (HE20)(SU)	CH64	1.50	11.00	Pass
11ax (HE40)(SU)	CH54	-0.38	11.00	Pass
11ax (HE40)(SU)	CH62	-1.28	11.00	Pass
11ax (HE80)(SU)	CH58	-4.25	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	2.65	9.72	Pass
11a	CH116	2.68	9.72	Pass
11a	CH140	2.96	9.72	Pass
11n (HT20)	CH100	2.11	11.00	Pass
11n (HT20)	CH116	2.11	11.00	Pass
11n (HT20)	CH140	2.81	11.00	Pass
11n (HT40)	CH102	-0.70	11.00	Pass
11n (HT40)	CH118	-0.40	11.00	Pass
11n (HT40)	CH134	-0.02	11.00	Pass
11ac (VHT20)	CH100	2.63	11.00	Pass
11ac (VHT20)	CH116	2.53	11.00	Pass
11ac (VHT20)	CH140	2.82	11.00	Pass
11ac (VHT40)	CH102	-0.63	11.00	Pass
11ac (VHT40)	CH118	-0.49	11.00	Pass
11ac (VHT40)	CH134	0.22	11.00	Pass
11ac (VHT80)	CH106	-4.13	11.00	Pass
11ac (VHT80)	CH122	-3.66	11.00	Pass
11ax (HE20)(SU)	CH100	1.89	11.00	Pass
11ax (HE20)(SU)	CH116	2.11	11.00	Pass
11ax (HE20)(SU)	CH140	2.21	11.00	Pass
11ax (HE40)(SU)	CH102	-0.96	11.00	Pass
11ax (HE40)(SU)	CH118	-1.04	11.00	Pass
11ax (HE40)(SU)	CH134	-0.43	11.00	Pass
11ax (HE80)(SU)	CH106	-4.03	11.00	Pass
11ax (HE80)(SU)	CH122	-4.18	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.10	29.06	Pass
11a	CH157	0.48	29.06	Pass
11a	CH165	0.73	29.06	Pass
11n (HT20)	CH149	-0.33	30.00	Pass
11n (HT20)	CH157	0.05	30.00	Pass
11n (HT20)	CH165	0.41	30.00	Pass
11n (HT40)	CH151	-2.88	30.00	Pass
11n (HT40)	CH159	-2.37	30.00	Pass
11ac (VHT20)	CH149	-0.29	30.00	Pass
11ac (VHT20)	CH157	0.02	30.00	Pass
11ac (VHT20)	CH165	0.14	30.00	Pass
11ac (VHT40)	CH151	-2.75	30.00	Pass
11ac (VHT40)	CH159	-2.40	30.00	Pass
11ac (VHT80)	CH155	-5.68	30.00	Pass
11ax (HE20)(SU)	CH149	0.20	30.00	Pass
11ax (HE20)(SU)	CH157	-0.26	30.00	Pass
11ax (HE20)(SU)	CH165	0.10	30.00	Pass
11ax (HE40)(SU)	CH151	-2.98	30.00	Pass
11ax (HE40)(SU)	CH159	-2.56	30.00	Pass
11ax (HE80)(SU)	CH155	-5.59	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	6.10	10.00	Pass
11a	CH44	5.22	10.00	Pass
11a	CH48	5.19	10.00	Pass
11n (HT20)	CH36	5.57	10.00	Pass
11n (HT20)	CH44	4.93	10.00	Pass
11n (HT20)	CH48	5.04	10.00	Pass
11n (HT40)	CH38	2.27	10.00	Pass
11n (HT40)	CH46	1.91	10.00	Pass
11ac (VHT20)	CH36	5.74	10.00	Pass
11ac (VHT20)	CH44	5.23	10.00	Pass
11ac (VHT20)	CH48	4.88	10.00	Pass
11ac (VHT40)	CH38	2.61	10.00	Pass
11ac (VHT40)	CH46	1.99	10.00	Pass
11ac (VHT80)	CH42	-0.90	10.00	Pass
11ax (HE20)(SU)	CH36	5.81	10.00	Pass
11ax (HE20)(SU)	CH44	5.19	10.00	Pass
11ax (HE20)(SU)	CH48	5.06	10.00	Pass
11ax (HE40)(SU)	CH38	2.60	10.00	Pass
11ax (HE40)(SU)	CH46	2.15	10.00	Pass
11ax (HE80)(SU)	CH42	-0.86	10.00	Pass

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/MHz)	Verdict
11a	CH52	5.46	Pass
11a	CH60	5.38	Pass
11a	CH64	4.88	Pass
11n (HT20)	CH52	5.98	Pass
11n (HT20)	CH60	5.18	Pass
11n (HT20)	CH64	4.70	Pass
11n (HT40)	CH54	3.05	Pass
11n (HT40)	CH62	2.23	Pass
11ac (VHT20)	CH52	6.05	Pass
11ac (VHT20)	CH60	5.28	Pass
11ac (VHT20)	CH64	4.82	Pass
11ac (VHT40)	CH54	3.00	Pass
11ac (VHT40)	CH62	2.35	Pass
11ac (VHT80)	CH58	-0.47	Pass
11ax (HE20)(SU)	CH52	6.14	Pass
11ax (HE20)(SU)	CH60	5.37	Pass
11ax (HE20)(SU)	CH64	4.96	Pass
11ax (HE40)(SU)	CH54	3.08	Pass
11ax (HE40)(SU)	CH62	2.18	Pass
11ax (HE80)(SU)	CH58	-0.79	Pass

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/MHz)	Verdict
11a	CH100	6.92	Pass
11a	CH116	6.95	Pass
11a	CH140	7.23	Pass
11n (HT20)	CH100	6.38	Pass
11n (HT20)	CH116	6.38	Pass
11n (HT20)	CH140	7.08	Pass
11n (HT40)	CH102	3.57	Pass
11n (HT40)	CH118	3.87	Pass
11n (HT40)	CH134	4.25	Pass
11ac (VHT20)	CH100	6.90	Pass
11ac (VHT20)	CH116	6.80	Pass
11ac (VHT20)	CH140	7.09	Pass
11ac (VHT40)	CH102	3.64	Pass
11ac (VHT40)	CH118	3.78	Pass
11ac (VHT40)	CH134	4.49	Pass
11ac (VHT80)	CH106	0.14	Pass
11ac (VHT80)	CH122	0.61	Pass
11ax (HE20)(SU)	CH100	6.16	Pass
11ax (HE20)(SU)	CH116	6.38	Pass
11ax (HE20)(SU)	CH140	6.48	Pass
11ax (HE40)(SU)	CH102	3.31	Pass
11ax (HE40)(SU)	CH118	3.23	Pass
11ax (HE40)(SU)	CH134	3.84	Pass
11ax (HE80)(SU)	CH106	0.24	Pass
11ax (HE80)(SU)	CH122	0.09	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/500kHz)	Verdict
11a	CH149	4.03	Pass
11a	CH157	4.41	Pass
11a	CH165	4.66	Pass
11n (HT20)	CH149	3.60	Pass
11n (HT20)	CH157	3.98	Pass
11n (HT20)	CH165	4.34	Pass
11n (HT40)	CH151	1.06	Pass
11n (HT40)	CH159	1.57	Pass
11ac (VHT20)	CH149	3.64	Pass
11ac (VHT20)	CH157	3.95	Pass
11ac (VHT20)	CH165	4.07	Pass
11ac (VHT40)	CH151	1.18	Pass
11ac (VHT40)	CH159	1.53	Pass
11ac (VHT80)	CH155	-1.75	Pass
11ax (HE20)(SU)	CH149	4.13	Pass
11ax (HE20)(SU)	CH157	3.67	Pass
11ax (HE20)(SU)	CH165	4.03	Pass
11ax (HE40)(SU)	CH151	0.95	Pass
11ax (HE40)(SU)	CH159	1.38	Pass
11ax (HE80)(SU)	CH155	-1.66	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.

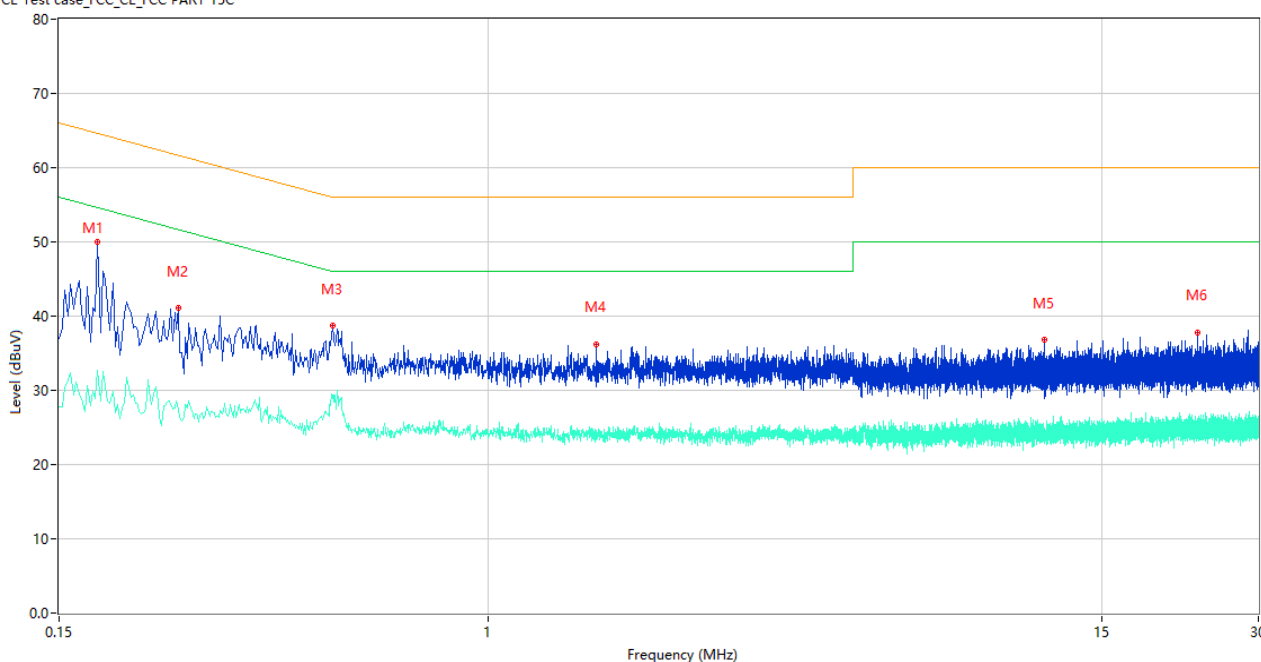
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

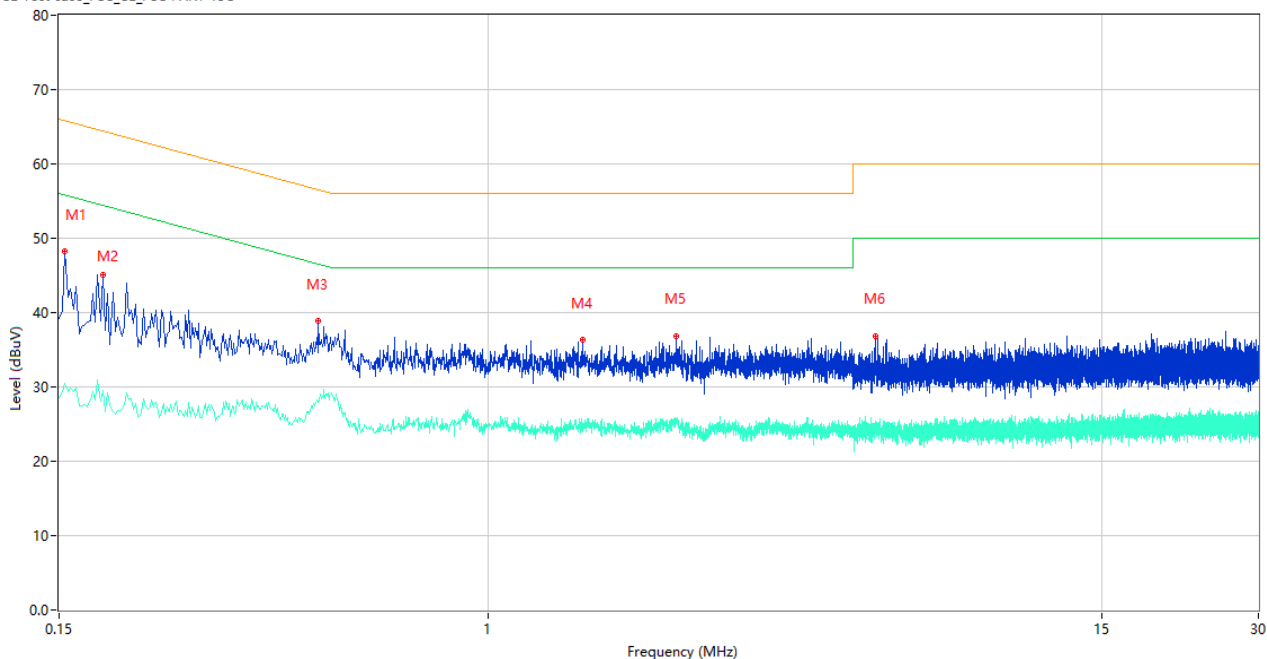
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	49.99	9.83	64.58	14.59	Peak	L	Pass
1**	0.178	32.63	9.83	54.58	21.95	AV	L	Pass
2	0.254	41.05	9.82	61.63	20.58	Peak	L	Pass
2**	0.254	27.45	9.82	51.63	24.18	AV	L	Pass
3	0.502	38.67	9.99	56.00	17.33	Peak	L	Pass
3**	0.502	29.40	9.99	46.00	16.60	AV	L	Pass
4	1.612	36.22	9.89	56.00	19.78	Peak	L	Pass
4**	1.612	24.67	9.89	46.00	21.33	AV	L	Pass
5	11.646	36.80	10.38	60.00	23.20	Peak	L	Pass
5**	11.646	24.80	10.38	50.00	25.20	AV	L	Pass
6	22.918	37.80	10.93	60.00	22.20	Peak	L	Pass
6**	22.918	25.43	10.93	50.00	24.57	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	0.154	48.27	9.83	65.78	17.51	Peak	N	Pass
1**	0.154	30.42	9.83	55.78	25.36	AV	N	Pass
2	0.182	45.04	9.83	64.39	19.35	Peak	N	Pass
2**	0.182	29.56	9.83	54.39	24.83	AV	N	Pass
3	0.472	38.85	10.02	56.48	17.63	Peak	N	Pass
3**	0.472	28.16	10.02	46.48	18.32	AV	N	Pass
4	1.514	36.28	10.24	56.00	19.72	Peak	N	Pass
4**	1.514	25.01	10.24	46.00	20.99	AV	N	Pass
5	2.290	36.87	10.32	56.00	19.13	Peak	N	Pass
5**	2.290	25.08	10.32	46.00	20.92	AV	N	Pass
6	5.530	36.85	10.48	60.00	23.15	Peak	N	Pass
6**	5.530	24.45	10.48	50.00	25.55	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.

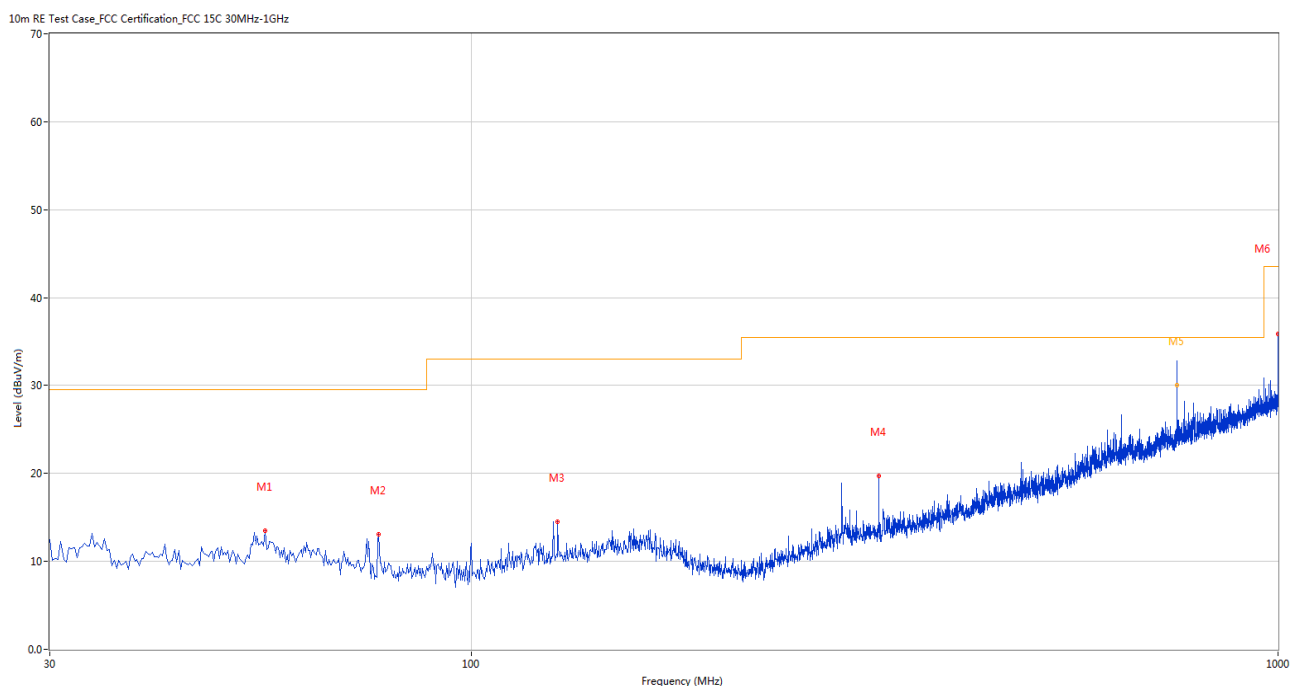
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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.

Note ⁵: For Multiple transmitter output, the quantity $10 \log (NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log (NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

Test Data and Plots

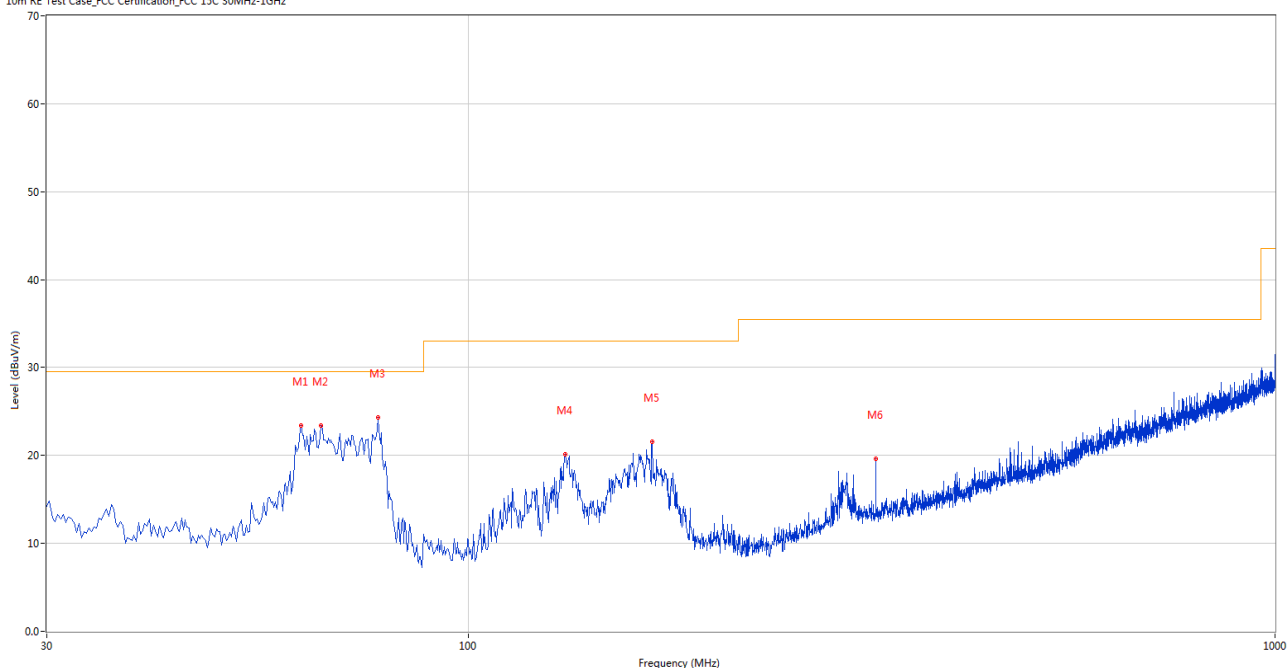
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.456	13.50	-27.14	29.5	16.00	Peak	231.00	200	Horizontal	Pass
2	76.791	13.05	-29.83	29.5	16.45	Peak	37.00	100	Horizontal	Pass
3	127.946	14.54	-27.47	33.0	18.46	Peak	215.00	100	Horizontal	Pass
4	319.958	19.72	-25.22	35.5	15.78	Peak	128.00	200	Horizontal	Pass
5	749.998	31.77	-13.59	35.5	3.73	Peak	0.00	108	Horizontal	N/A
5*	749.998	30.00	-13.59	35.5	5.50	QP	0.00	108	Horizontal	Pass
6	1000.000	35.89	-9.11	43.5	7.61	Peak	161.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.002	23.44	-27.63	29.5	6.06	Peak	26.00	100	Vertical	Pass
2	65.639	23.38	-28.45	29.5	6.12	Peak	26.00	100	Vertical	Pass
3	77.276	24.28	-29.86	29.5	5.22	Peak	0.00	200	Vertical	Pass
4	131.825	20.17	-27.23	33.0	12.83	Peak	275.00	100	Vertical	Pass
5	168.918	21.54	-26.80	33.0	11.46	Peak	253.00	100	Vertical	Pass
6	319.958	19.63	-25.22	35.5	15.87	Peak	353.00	100	Vertical	Pass

Note ¹: The spurious above 18G is noise only, do not show on the report.

Note ²: All the configurations were pre tested, but only the worst data was shown in this report.

Note ³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna 1

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	1510.491	40.58	74.0	33.42	Peak	36.00	300	Horizontal	Pass
1**	1510.491	28.61	54.0	25.39	AV	36.00	300	Horizontal	Pass
2	2348.204	44.05	74.0	29.95	Peak	269.00	100	Horizontal	Pass
2**	2348.204	38.51	54.0	15.49	AV	269.00	100	Horizontal	Pass
3	4202.531	44.90	74.0	29.10	Peak	120.00	200	Horizontal	Pass
3**	4202.531	36.96	54.0	17.04	AV	120.00	200	Horizontal	Pass
4	7433.059	54.70	74.0	19.30	Peak	22.00	300	Horizontal	Pass
4**	7433.059	40.17	54.0	13.83	AV	22.00	300	Horizontal	Pass
5	12519.390	57.71	74.0	16.29	Peak	107.00	200	Horizontal	Pass
5**	12519.390	47.46	54.0	6.54	AV	107.00	200	Horizontal	Pass
6	16148.512	56.70	74.0	17.30	Peak	295.00	200	Horizontal	Pass
6**	16148.512	44.56	54.0	9.44	AV	295.00	200	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	1571.916	35.69	74.0	38.31	Peak	279.00	400	Vertical	Pass
1**	1571.916	28.83	54.0	25.17	AV	279.00	400	Vertical	Pass
2	2345.010	46.14	74.0	27.86	Peak	69.00	300	Vertical	Pass
2**	2345.010	30.55	54.0	23.45	AV	69.00	300	Vertical	Pass
3	3917.477	46.68	74.0	27.32	Peak	181.00	200	Vertical	Pass
3**	3917.477	33.56	54.0	20.44	AV	181.00	200	Vertical	Pass
4	7679.164	54.47	74.0	19.53	Peak	327.00	200	Vertical	Pass
4**	7679.164	44.33	54.0	9.67	AV	327.00	200	Vertical	Pass
5	12528.362	57.81	74.0	16.19	Peak	78.00	300	Vertical	Pass
5**	12528.362	45.65	54.0	8.35	AV	78.00	300	Vertical	Pass
6	15385.398	53.31	74.0	20.69	Peak	197.00	100	Vertical	Pass
6**	15385.398	43.81	54.0	10.19	AV	197.00	100	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	1510.843	42.23	74.0	31.77	Peak	360.00	100	Horizontal	Pass
1**	1510.843	32.31	54.0	21.69	AV	360.00	100	Horizontal	Pass
2	2345.605	45.35	74.0	28.65	Peak	77.00	200	Horizontal	Pass
2**	2345.605	36.67	54.0	17.33	AV	77.00	200	Horizontal	Pass
3	4202.987	44.78	74.0	29.22	Peak	166.00	200	Horizontal	Pass
3**	4202.987	36.71	54.0	17.29	AV	166.00	200	Horizontal	Pass
4	7438.004	55.65	74.0	18.35	Peak	89.00	300	Horizontal	Pass
4**	7438.004	43.30	54.0	10.70	AV	89.00	300	Horizontal	Pass
5	12519.651	57.30	74.0	16.70	Peak	208.00	400	Horizontal	Pass
5**	12519.651	48.45	54.0	5.55	AV	208.00	400	Horizontal	Pass
6	16147.516	56.93	74.0	17.07	Peak	262.00	300	Horizontal	Pass
6**	16147.516	45.96	54.0	8.04	AV	262.00	300	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	1573.053	38.40	74.0	35.60	Peak	159.00	100	Vertical	Pass
1**	1573.053	27.97	54.0	26.03	AV	159.00	100	Vertical	Pass
2	2344.924	46.90	74.0	27.10	Peak	76.00	400	Vertical	Pass
2**	2344.924	32.73	54.0	21.27	AV	76.00	400	Vertical	Pass
3	3918.726	43.13	74.0	30.87	Peak	261.00	200	Vertical	Pass
3**	3918.726	38.53	54.0	15.47	AV	261.00	200	Vertical	Pass
4	7676.848	50.30	74.0	23.70	Peak	307.00	100	Vertical	Pass
4**	7676.848	42.94	54.0	11.06	AV	307.00	100	Vertical	Pass
5	12527.425	58.35	74.0	15.65	Peak	158.00	100	Vertical	Pass
5**	12527.425	44.75	54.0	9.25	AV	158.00	100	Vertical	Pass
6	15380.937	53.82	74.0	20.18	Peak	58.00	400	Vertical	Pass
6**	15380.937	42.07	54.0	11.93	AV	58.00	400	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	1511.555	36.82	74.0	37.18	Peak	141.00	100	Horizontal	Pass
1**	1511.555	29.00	54.0	25.00	AV	141.00	100	Horizontal	Pass
2	2347.623	43.80	74.0	30.20	Peak	177.00	200	Horizontal	Pass
2**	2347.623	38.49	54.0	15.51	AV	177.00	200	Horizontal	Pass
3	4205.447	49.23	74.0	24.77	Peak	267.00	200	Horizontal	Pass
3**	4205.447	38.46	54.0	15.54	AV	267.00	200	Horizontal	Pass
4	7430.762	51.65	74.0	22.35	Peak	265.00	300	Horizontal	Pass
4**	7430.762	41.69	54.0	12.31	AV	265.00	300	Horizontal	Pass
5	12519.513	54.34	74.0	19.66	Peak	41.00	100	Horizontal	Pass
5**	12519.513	44.43	54.0	9.57	AV	41.00	100	Horizontal	Pass
6	16144.288	55.84	74.0	18.16	Peak	37.00	100	Horizontal	Pass
6**	16144.288	43.75	54.0	10.25	AV	37.00	100	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	1573.808	35.69	74.0	38.31	Peak	200.00	100	Vertical	Pass
1**	1573.808	28.10	54.0	25.90	AV	200.00	100	Vertical	Pass
2	2349.827	43.44	74.0	30.56	Peak	223.00	300	Vertical	Pass
2**	2349.827	30.73	54.0	23.27	AV	223.00	300	Vertical	Pass
3	3915.947	47.14	74.0	26.86	Peak	133.00	200	Vertical	Pass
3**	3915.947	39.04	54.0	14.96	AV	133.00	200	Vertical	Pass
4	7678.412	50.06	74.0	23.94	Peak	306.00	300	Vertical	Pass
4**	7678.412	45.46	54.0	8.54	AV	306.00	300	Vertical	Pass
5	12531.439	54.73	74.0	19.27	Peak	345.00	300	Vertical	Pass
5**	12531.439	45.59	54.0	8.41	AV	345.00	300	Vertical	Pass
6	15381.281	50.70	74.0	23.30	Peak	346.00	300	Vertical	Pass
6**	15381.281	44.92	54.0	9.08	AV	346.00	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	1510.727	41.95	74.0	32.05	Peak	185.00	400	Horizontal	Pass
1**	1510.727	31.30	54.0	22.70	AV	185.00	400	Horizontal	Pass
2	2346.843	46.94	74.0	27.06	Peak	223.00	400	Horizontal	Pass
2**	2346.843	36.21	54.0	17.79	AV	223.00	400	Horizontal	Pass
3	4209.244	47.80	74.0	26.20	Peak	77.00	200	Horizontal	Pass
3**	4209.244	37.08	54.0	16.92	AV	77.00	200	Horizontal	Pass
4	7430.442	53.22	74.0	20.78	Peak	356.00	400	Horizontal	Pass
4**	7430.442	41.03	54.0	12.97	AV	356.00	400	Horizontal	Pass
5	12516.183	52.81	74.0	21.19	Peak	105.00	300	Horizontal	Pass
5**	12516.183	46.37	54.0	7.63	AV	105.00	300	Horizontal	Pass
6	16150.956	54.57	74.0	19.43	Peak	299.00	400	Horizontal	Pass
6**	16150.956	45.69	54.0	8.31	AV	299.00	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	1572.095	33.67	74.0	40.33	Peak	322.00	100	Vertical	Pass
1**	1572.095	28.41	54.0	25.59	AV	322.00	100	Vertical	Pass
2	2349.173	43.03	74.0	30.97	Peak	339.00	100	Vertical	Pass
2**	2349.173	30.96	54.0	23.04	AV	339.00	100	Vertical	Pass
3	3914.322	42.50	74.0	31.50	Peak	203.00	200	Vertical	Pass
3**	3914.322	38.10	54.0	15.90	AV	203.00	200	Vertical	Pass
4	7682.134	49.49	74.0	24.51	Peak	241.00	300	Vertical	Pass
4**	7682.134	44.10	54.0	9.90	AV	241.00	300	Vertical	Pass
5	12532.409	56.19	74.0	17.81	Peak	343.00	300	Vertical	Pass
5**	12532.409	43.65	54.0	10.35	AV	343.00	300	Vertical	Pass
6	15381.441	52.69	74.0	21.31	Peak	69.00	200	Vertical	Pass
6**	15381.441	45.38	54.0	8.62	AV	69.00	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	1514.194	38.06	74.0	35.94	Peak	136.00	300	Horizontal	Pass
1**	1514.194	30.73	54.0	23.27	AV	136.00	300	Horizontal	Pass
2	2350.065	46.87	74.0	27.13	Peak	315.00	300	Horizontal	Pass
2**	2350.065	39.53	54.0	14.47	AV	315.00	300	Horizontal	Pass
3	4203.914	47.00	74.0	27.00	Peak	38.00	200	Horizontal	Pass
3**	4203.914	35.73	54.0	18.27	AV	38.00	200	Horizontal	Pass
4	7430.520	51.86	74.0	22.14	Peak	295.00	200	Horizontal	Pass
4**	7430.520	45.77	54.0	8.23	AV	295.00	200	Horizontal	Pass
5	12514.781	54.19	74.0	19.81	Peak	9.00	300	Horizontal	Pass
5**	12514.781	49.66	54.0	4.34	AV	9.00	300	Horizontal	Pass
6	16149.158	51.54	74.0	22.46	Peak	272.00	200	Horizontal	Pass
6**	16149.158	43.97	54.0	10.03	AV	272.00	200	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	1573.052	37.31	74.0	36.69	Peak	307.00	200	Vertical	Pass
1**	1573.052	24.10	54.0	29.90	AV	307.00	200	Vertical	Pass
2	2345.368	47.54	74.0	26.46	Peak	271.00	100	Vertical	Pass
2**	2345.368	33.17	54.0	20.83	AV	271.00	100	Vertical	Pass
3	3916.367	46.48	74.0	27.52	Peak	282.00	200	Vertical	Pass
3**	3916.367	33.46	54.0	20.54	AV	282.00	200	Vertical	Pass
4	7682.173	53.15	74.0	20.85	Peak	318.00	200	Vertical	Pass
4**	7682.173	43.63	54.0	10.37	AV	318.00	200	Vertical	Pass
5	12529.333	55.21	74.0	18.79	Peak	31.00	200	Vertical	Pass
5**	12529.333	43.45	54.0	10.55	AV	31.00	200	Vertical	Pass
6	15380.692	54.22	74.0	19.78	Peak	19.00	300	Vertical	Pass
6**	15380.692	45.04	54.0	8.96	AV	19.00	300	Vertical	Pass