

TEST REPORT

Applicant: SHANGHAI XIANGCHENG COMMUNICATION TECHNOLOGY CO., LTD

Address: 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai

Equipment Type: Intelligent Mobile Data Capture Terminal

Model Name: Ranger 3 (refer to section 2.3)

Brand Name: N/A

FCC ID: 2A2UU-MF-T2561

Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)

Sample Arrival Date: Jul. 27, 2026

Test Date: Aug. 01, 2026 - Aug. 28, 2026

Date of Issue: Sep. 11, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



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Zhang Yanqing

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 11, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SHANGHAI XIANGCHENG COMMUNICATION TECHNOLOGY CO., LTD
Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai

2.2 Manufacturer Information

Manufacturer	SHANGHAI XIANGCHENG COMMUNICATION TECHNOLOGY CO., LTD
Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai

2.3 General Description for Equipment under Test (EUT)

EUT Name	Intelligent Mobile Data Capture Terminal
Model Name Under Test	Ranger 3
Series Model Name	Ranger3 Nova, Ranger3 Ultra, Ranger3 Lite, Ranger 3C, S60, S60C, S67, S67C, T6, T6 Pro, T6 Lite, T6 SE, M7, M7 PRO, M7 Pro, M7 Lite, EM7 Pro, MF70C, MF70N, MF70P, MF70 Pro, MF70 SE, T25, T2561, T25X, TP25, TP70, TP80, T650, T700
Description of Model name differentiation	All the same except for the model name.
Sample Number	SC-SH25C0065-S06(conducted) SC-SH25C0065-S03(radiated)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/25/26/66 LTE TDD Band 38/40/41 Bluetooth (BR+EDR+BLE:1M&2M) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), 802.11ax(HE20/40/80) 6G WIFI 802.11ax(HE20/40/80) NFC, BDS, GPS, GLONASS, Galileo, QZSS, SBAS
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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	
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 433.3 Mbps 802.11ax: up to 600.5 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: 90.76 mW U-NII-2A: 74.28 mW U-NII-2C: 93.58 mW U-NII-3: 95.98 mW	
Antenna System (eg., MIMO, Smart Antenna)	Multi Input Multi Output (MIMO) for 802.11a/n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Uncorrelated for 802.11a/n/ac/ax	
Antenna Type	Main Antenna Aux. Antenna	PIFA Antenna
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 2.58 dBi U-NII-2A: 5250 MHz to 5350 MHz: 2.58 dBi U-NII-2C: 5470 MHz to 5725 MHz: 3.41 dBi

		U-NII-3: 5725 MHz to 5850 MHz: 3.28 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: -2.10 dBi U-NII-2A: 5250 MHz to 5350 MHz: -0.73 dBi U-NII-2C: 5470 MHz to 5725 MHz: -0.18 dBi U-NII-3: 5725 MHz to 5850 MHz: -0.82 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 4.06 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.09 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.81 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.48 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-2A: 5250 MHz to 5350 MHz: 1.23 dBi U-NII-2C: 5470 MHz to 5725 MHz: 1.98 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.70 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 4.06 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.09 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.81 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.48 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-2A: 5250 MHz to 5350 MHz: 1.23 dBi U-NII-2C: 5470 MHz to 5725 MHz: 1.98 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.70 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
About the Product		The equipment is Intelligent Mobile Data Capture Terminal, intended for used with information technology equipment.

Mode	Antenna		
	Main Antenna	Aux. Antenna	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	√	√	√	√	√	√	√

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				

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)	7.3		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	14.6		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	30.6		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	122/106	155
	11ax(20 MHz)	7.3		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	14.6		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	30.6		42	58	122/106	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)	7.3		N/A	N/A	N/A	165/157/149
	11ax(40 MHz)	14.6		N/A	N/A	N/A	159/151
	11ax(80 MHz)	30.6		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	122/106	155
	11ax(20 MHz)	7.3		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	14.6		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	30.6		42	58	122/106	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)	7.3		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	14.6		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	30.6		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	122/106	155
	11ax(20 MHz)	7.3		48/36	64/52	140/100	165/149
	11ax(40 MHz)	14.6		46/38	62/54	134/102	159/151
	11ax(80 MHz)	30.6		42	58	122/106	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	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
4	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

3.2 Test Verdict

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

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

Note2: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

3.3 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	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
Radiated emissions (9 kHz-30 MHz)	4.00 dB
Radiated emissions (30 MHz-1 GHz)	4.40 dB
Radiated emissions (1 GHz -18 GHz)	5.20 dB
Radiated emissions (18 GHz-40 GHz)	5.60 dB
Temperature	0.82 °C
Humidity	4.08 %

3.4 Decision Rule

- ☐ No Need
- ☒ Use General Conformity Decision Rule
- ☐ Use Special Conformity Decision Rule

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	47% to 58%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.8°C to +24.1°C
Working Voltage of the EUT	NV (Normal Voltage)	3.91 V

4.2 Test Equipment List

Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2026.02.03	2027.02.02
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2026.02.03	2027.02.02
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2026.02.03	2027.02.02
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2026.02.03	2027.02.02
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2026.03.20	2027.03.19
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2026.02.05	2027.02.04
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2026.02.04	2027.02.03
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2026.02.04	2027.02.03
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V3.5.2.642	N/A	The section 4.4.1
BL410-E	BALUN	V21.919	N/A	The section 4.4.3&4.4.4&4.4.5
BL410-E	BALUN	V19.618	N/A	The section 4.4.2

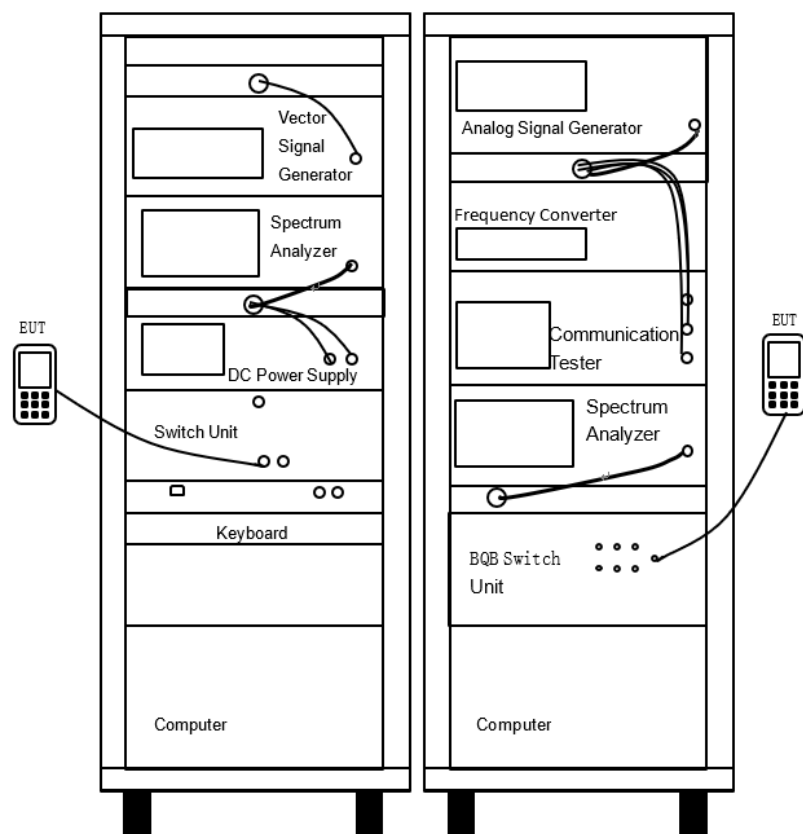
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

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

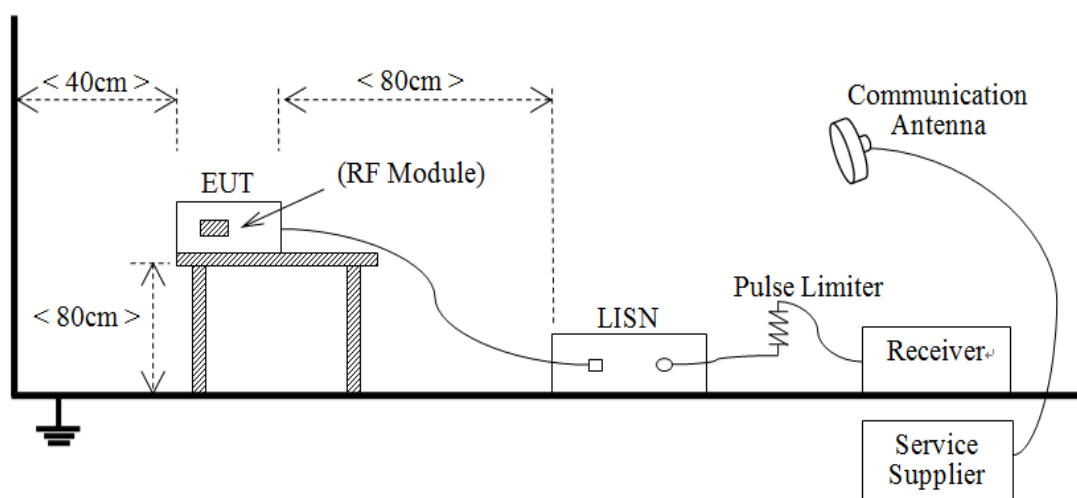
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



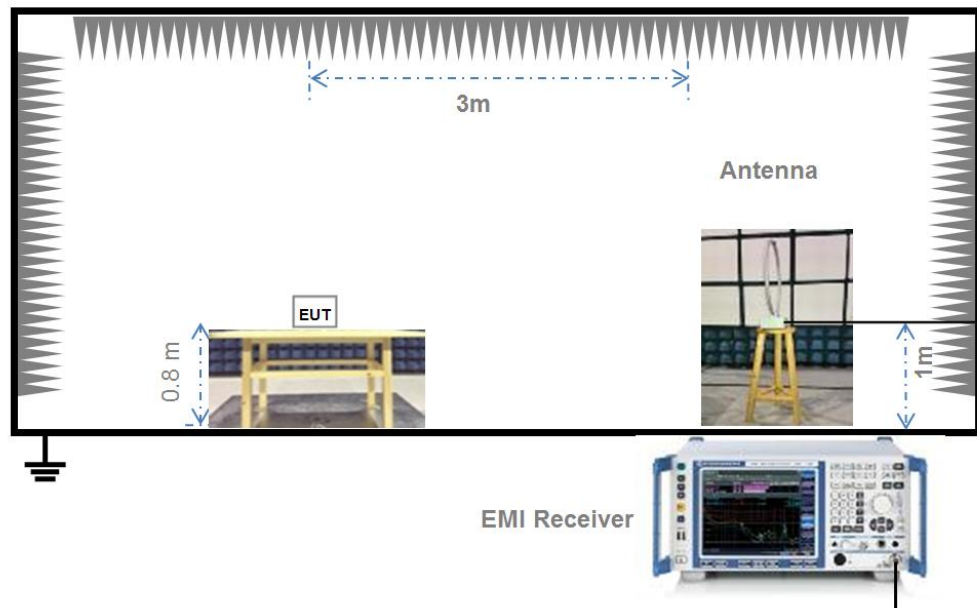
(Diagram 1)

4.4.2 For AC Power Supply Port Test



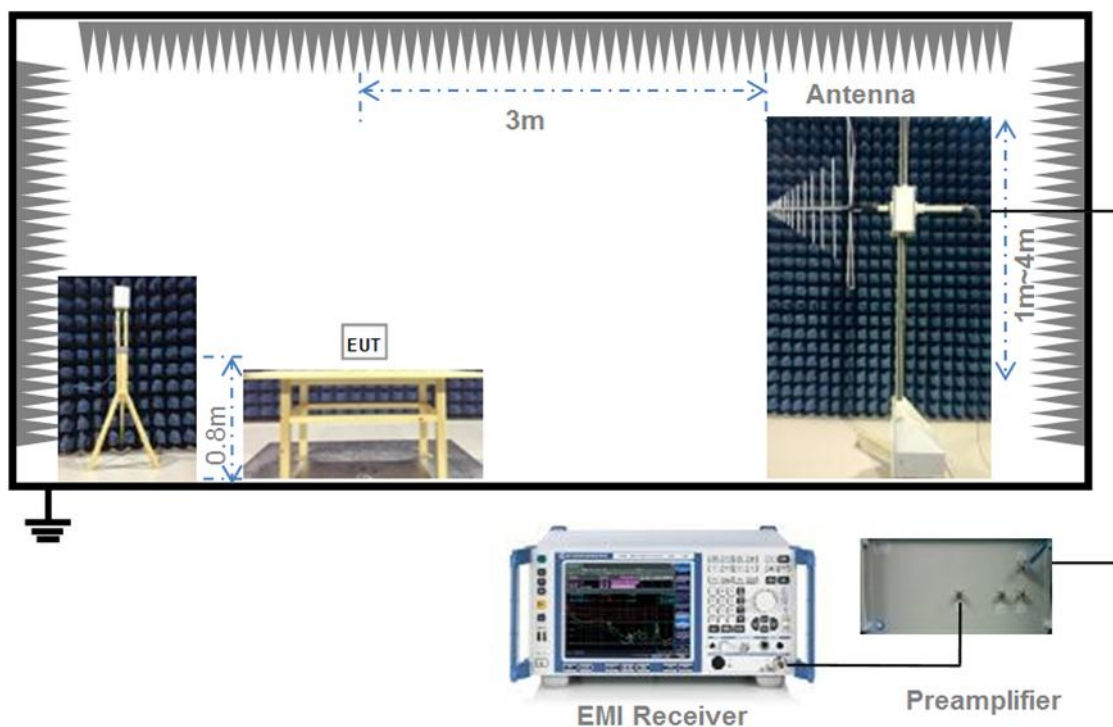
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



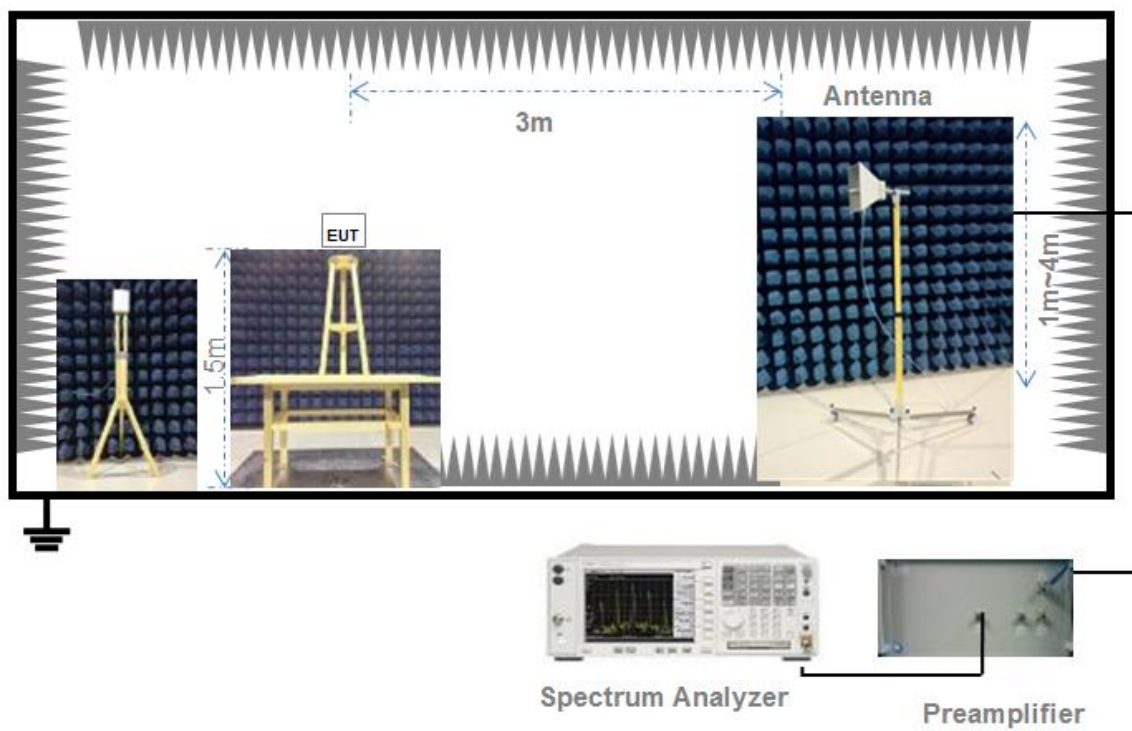
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

The section 4.4.1 (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)

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 4.4.1 (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,
4. Detector = Peak.
5. Trace mode = Max hold.
6. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

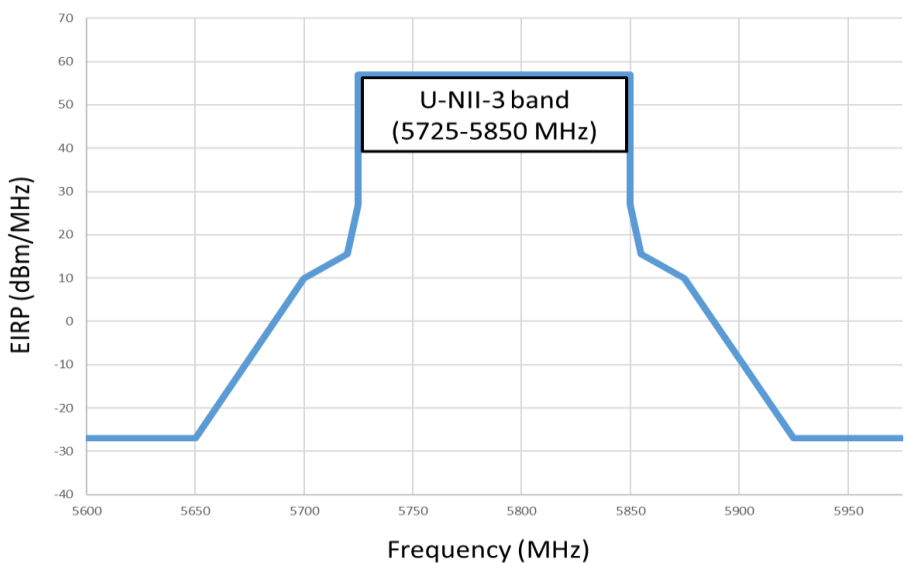
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.5.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
$$E = \text{EIRP} - 20\log D + 104.8$$
where:
E = electric field strength in dB μ V/m,
EIRP = equivalent isotropic radiated power in dBm
D = specified measurement distance in meters.
- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

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

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ 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: The RF Output Power has considered the Duty Factor.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.00	1.00	100.00%
11n (HT20)	1.00	1.00	100.00%
11n (HT40)	1.00	1.00	100.00%
11ac (VHT20)	1.00	1.00	100.00%
11ac (VHT40)	1.00	1.00	100.00%
11ac (VHT80)	1.00	1.00	100.00%
11ax (HE20)	1.00	1.00	100.00%
11ax (HE40)	1.00	1.00	100.00%
11ax (HE80)	1.00	1.00	100.00%

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11ax (HE20) (RU)	4.14	4.91	84.28%
11ax (HE40) (RU)	2.82	3.66	77.07%
11ax (HE80) (RU)	1.16	1.95	59.70%

Test DataConducted PowerMain Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH36	12.43	17.50	250.00	Pass
11a	CH44	11.82	15.21	250.00	Pass
11a	CH48	11.75	14.96	250.00	Pass
11n (HT20)	CH36	13.76	23.77	250.00	Pass
11n (HT20)	CH44	13.40	21.88	250.00	Pass
11n (HT20)	CH48	13.10	20.42	250.00	Pass
11n (HT40)	CH38	13.46	22.18	250.00	Pass
11n (HT40)	CH46	11.97	15.74	250.00	Pass
11ac (VHT20)	CH36	11.69	14.76	250.00	Pass
11ac (VHT20)	CH44	12.25	16.79	250.00	Pass
11ac (VHT20)	CH48	10.73	11.83	250.00	Pass
11ac (VHT40)	CH38	14.36	27.29	250.00	Pass
11ac (VHT40)	CH46	14.14	25.94	250.00	Pass
11ac (VHT80)	CH42	14.34	27.16	250.00	Pass
11ax (HE20) (SU)	CH36	15.14	32.66	250.00	Pass
11ax (HE20) (SU)	CH44	15.21	33.19	250.00	Pass
11ax (HE20) (SU)	CH48	15.17	32.89	250.00	Pass
11ax (HE40) (SU)	CH38	11.15	13.03	250.00	Pass
11ax (HE40) (SU)	CH46	12.17	16.48	250.00	Pass
11ax (HE80) (SU)	CH42	14.05	25.41	250.00	Pass
11ax (HE20) (RU26)	CH36	10.72	11.81	250.00	Pass
11ax (HE20) (RU26)	CH44	9.46	8.84	250.00	Pass
11ax (HE20) (RU26)	CH48	9.82	9.60	250.00	Pass
11ax (HE20) (RU52)	CH36	11.71	14.84	250.00	Pass
11ax (HE20) (RU52)	CH44	12.04	16.01	250.00	Pass
11ax (HE20) (RU52)	CH48	11.93	15.61	250.00	Pass
11ax (HE20) (RU106)	CH36	13.93	24.73	250.00	Pass
11ax (HE20) (RU106)	CH44	13.93	24.73	250.00	Pass
11ax (HE20) (RU106)	CH48	14.46	27.94	250.00	Pass
11ax (HE20) (RU242)	CH36	16.48	44.49	250.00	Pass
11ax (HE20) (RU242)	CH44	14.72	29.67	250.00	Pass
11ax (HE20) (RU242)	CH48	15.12	32.53	250.00	Pass
11ax (HE40) (RU484)	CH38	15.16	32.82	250.00	Pass
11ax (HE40) (RU484)	CH46	14.93	31.12	250.00	Pass
11ax (HE80) (RU996)	CH42	15.43	34.91	250.00	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH52	11.59	14.42	250.00	Pass
11a	CH60	11.61	14.49	250.00	Pass
11a	CH64	11.20	13.18	250.00	Pass
11n (HT20)	CH52	11.75	14.96	250.00	Pass
11n (HT20)	CH60	11.62	14.52	250.00	Pass
11n (HT20)	CH64	11.73	14.89	250.00	Pass
11n (HT40)	CH54	10.84	12.13	250.00	Pass
11n (HT40)	CH62	10.78	11.97	250.00	Pass
11ac (VHT20)	CH52	10.90	12.30	250.00	Pass
11ac (VHT20)	CH60	10.68	11.69	250.00	Pass
11ac (VHT20)	CH64	10.60	11.48	250.00	Pass
11ac (VHT40)	CH54	12.89	19.45	250.00	Pass
11ac (VHT40)	CH62	12.62	18.28	250.00	Pass
11ac (VHT80)	CH58	12.45	17.58	250.00	Pass
11ax (HE20) (SU)	CH52	13.25	21.13	250.00	Pass
11ax (HE20) (SU)	CH60	13.70	23.44	250.00	Pass
11ax (HE20) (SU)	CH64	13.73	23.60	250.00	Pass
11ax (HE40) (SU)	CH54	10.80	12.02	250.00	Pass
11ax (HE40) (SU)	CH62	10.96	12.47	250.00	Pass
11ax (HE80) (SU)	CH58	15.24	33.42	250.00	Pass
11ax (HE20) (RU26)	CH52	9.53	8.98	250.00	Pass
11ax (HE20) (RU26)	CH60	10.39	10.95	250.00	Pass
11ax (HE20) (RU26)	CH64	10.44	11.07	250.00	Pass
11ax (HE20) (RU52)	CH52	12.10	16.23	250.00	Pass
11ax (HE20) (RU52)	CH60	12.36	17.23	250.00	Pass
11ax (HE20) (RU52)	CH64	12.36	17.23	250.00	Pass
11ax (HE20) (RU106)	CH52	13.99	25.08	250.00	Pass
11ax (HE20) (RU106)	CH60	14.25	26.63	250.00	Pass
11ax (HE20) (RU106)	CH64	14.26	26.69	250.00	Pass
11ax (HE20) (RU242)	CH52	14.78	30.08	250.00	Pass
11ax (HE20) (RU242)	CH60	15.11	32.46	250.00	Pass
11ax (HE20) (RU242)	CH64	15.13	32.61	250.00	Pass
11ax (HE40) (RU484)	CH54	14.37	27.36	250.00	Pass
11ax (HE40) (RU484)	CH62	14.99	31.56	250.00	Pass
11ax (HE80) (RU996)	CH58	15.28	33.73	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH100	11.42	13.87	250.00	Pass
11a	CH116	12.25	16.79	250.00	Pass
11a	CH140	12.60	18.20	250.00	Pass
11n (HT20)	CH100	12.00	15.85	250.00	Pass
11n (HT20)	CH116	12.67	18.49	250.00	Pass
11n (HT20)	CH140	13.04	20.14	250.00	Pass
11n (HT40)	CH102	10.67	11.67	250.00	Pass
11n (HT40)	CH118	11.08	12.82	250.00	Pass
11n (HT40)	CH134	11.13	12.97	250.00	Pass
11ac (VHT20)	CH100	10.45	11.09	250.00	Pass
11ac (VHT20)	CH116	11.08	12.82	250.00	Pass
11ac (VHT20)	CH140	11.12	12.94	250.00	Pass
11ac (VHT40)	CH102	14.25	26.61	250.00	Pass
11ac (VHT40)	CH118	13.49	22.34	250.00	Pass
11ac (VHT40)	CH134	13.66	23.23	250.00	Pass
11ac (VHT80)	CH106	12.82	19.14	250.00	Pass
11ac (VHT80)	CH122	13.99	25.06	250.00	Pass
11ax (HE20) (SU)	CH100	13.61	22.96	250.00	Pass
11ax (HE20) (SU)	CH116	14.88	30.76	250.00	Pass
11ax (HE20) (SU)	CH140	14.62	28.97	250.00	Pass
11ax (HE40) (SU)	CH102	12.22	16.67	250.00	Pass
11ax (HE40) (SU)	CH118	12.87	19.36	250.00	Pass
11ax (HE40) (SU)	CH134	11.88	15.42	250.00	Pass
11ax (HE80) (SU)	CH106	15.13	32.58	250.00	Pass
11ax (HE80) (SU)	CH122	16.05	40.27	250.00	Pass
11ax (HE20) (RU26)	CH100	10.27	10.65	250.00	Pass
11ax (HE20) (RU26)	CH116	10.54	11.33	250.00	Pass
11ax (HE20) (RU26)	CH140	10.86	12.20	250.00	Pass
11ax (HE20) (RU52)	CH100	12.18	16.53	250.00	Pass
11ax (HE20) (RU52)	CH116	12.95	19.74	250.00	Pass
11ax (HE20) (RU52)	CH140	13.22	21.00	250.00	Pass
11ax (HE20) (RU106)	CH100	14.11	25.78	250.00	Pass
11ax (HE20) (RU106)	CH116	14.76	29.94	250.00	Pass
11ax (HE20) (RU106)	CH140	15.00	31.64	250.00	Pass
11ax (HE20) (RU242)	CH100	14.85	30.57	250.00	Pass
11ax (HE20) (RU242)	CH116	15.63	36.58	250.00	Pass
11ax (HE20) (RU242)	CH140	15.76	37.70	250.00	Pass
11ax (HE40) (RU484)	CH102	14.81	30.28	250.00	Pass
11ax (HE40) (RU484)	CH118	15.60	36.32	250.00	Pass
11ax (HE40) (RU484)	CH134	15.75	37.59	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11ax (HE80) (RU996)	CH106	14.95	31.26	250.00	Pass
11ax (HE80) (RU996)	CH122	16.25	42.17	250.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH149	12.72	18.71	1000	Pass
11a	CH157	12.91	19.54	1000	Pass
11a	CH165	12.69	18.58	1000	Pass
11n (HT20)	CH149	13.13	20.56	1000	Pass
11n (HT20)	CH157	13.20	20.89	1000	Pass
11n (HT20)	CH165	12.97	19.82	1000	Pass
11n (HT40)	CH151	11.96	15.70	1000	Pass
11n (HT40)	CH159	11.67	14.69	1000	Pass
11ac (VHT20)	CH149	11.81	15.17	1000	Pass
11ac (VHT20)	CH157	11.81	15.17	1000	Pass
11ac (VHT20)	CH165	11.62	14.52	1000	Pass
11ac (VHT40)	CH151	13.84	24.21	1000	Pass
11ac (VHT40)	CH159	14.51	28.25	1000	Pass
11ac (VHT80)	CH155	13.70	23.44	1000	Pass
11ax (HE20) (SU)	CH149	13.99	25.06	1000	Pass
11ax (HE20) (SU)	CH157	14.04	25.35	1000	Pass
11ax (HE20) (SU)	CH165	13.61	22.96	1000	Pass
11ax (HE40) (SU)	CH151	12.10	16.22	1000	Pass
11ax (HE40) (SU)	CH159	11.53	14.22	1000	Pass
11ax (HE80) (SU)	CH155	13.09	20.37	1000	Pass
11ax (HE20) (RU26)	CH149	10.74	11.87	1000	Pass
11ax (HE20) (RU26)	CH157	10.77	11.95	1000	Pass
11ax (HE20) (RU26)	CH165	10.61	11.52	1000	Pass
11ax (HE20) (RU52)	CH149	13.23	21.05	1000	Pass
11ax (HE20) (RU52)	CH157	13.24	21.10	1000	Pass
11ax (HE20) (RU52)	CH165	13.04	20.15	1000	Pass
11ax (HE20) (RU106)	CH149	15.03	31.86	1000	Pass
11ax (HE20) (RU106)	CH157	15.04	31.94	1000	Pass
11ax (HE20) (RU106)	CH165	14.87	30.71	1000	Pass
11ax (HE20) (RU242)	CH149	15.80	38.04	1000	Pass
11ax (HE20) (RU242)	CH157	15.85	38.48	1000	Pass
11ax (HE20) (RU242)	CH165	15.63	36.58	1000	Pass
11ax (HE40) (RU484)	CH151	15.79	37.94	1000	Pass
11ax (HE40) (RU484)	CH159	15.73	37.42	1000	Pass
11ax (HE80) (RU996)	CH155	16.13	41.02	1000	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH36	12.71	18.66	250.00	Pass
11a	CH44	12.42	17.46	250.00	Pass
11a	CH48	12.57	18.07	250.00	Pass
11n (HT20)	CH36	13.19	20.84	250.00	Pass
11n (HT20)	CH44	13.57	22.75	250.00	Pass
11n (HT20)	CH48	13.34	21.58	250.00	Pass
11n (HT40)	CH38	12.63	18.32	250.00	Pass
11n (HT40)	CH46	12.76	18.88	250.00	Pass
11ac (VHT20)	CH36	13.04	20.14	250.00	Pass
11ac (VHT20)	CH44	13.04	20.14	250.00	Pass
11ac (VHT20)	CH48	12.41	17.42	250.00	Pass
11ac (VHT40)	CH38	15.56	35.97	250.00	Pass
11ac (VHT40)	CH46	14.76	29.92	250.00	Pass
11ac (VHT80)	CH42	14.70	29.51	250.00	Pass
11ax (HE20) (SU)	CH36	15.79	37.93	250.00	Pass
11ax (HE20) (SU)	CH44	13.84	24.21	250.00	Pass
11ax (HE20) (SU)	CH48	13.47	22.23	250.00	Pass
11ax (HE40) (SU)	CH38	13.24	21.09	250.00	Pass
11ax (HE40) (SU)	CH46	12.78	18.97	250.00	Pass
11ax (HE80) (SU)	CH42	16.06	40.36	250.00	Pass
11ax (HE20) (RU26)	CH36	10.18	10.43	250.00	Pass
11ax (HE20) (RU26)	CH44	9.19	8.30	250.00	Pass
11ax (HE20) (RU26)	CH48	9.39	8.70	250.00	Pass
11ax (HE20) (RU52)	CH36	12.15	16.42	250.00	Pass
11ax (HE20) (RU52)	CH44	11.97	15.75	250.00	Pass
11ax (HE20) (RU52)	CH48	12.39	17.35	250.00	Pass
11ax (HE20) (RU106)	CH36	14.38	27.43	250.00	Pass
11ax (HE20) (RU106)	CH44	14.07	25.54	250.00	Pass
11ax (HE20) (RU106)	CH48	14.61	28.93	250.00	Pass
11ax (HE20) (RU242)	CH36	16.65	46.27	250.00	Pass
11ax (HE20) (RU242)	CH44	14.89	30.85	250.00	Pass
11ax (HE20) (RU242)	CH48	15.03	31.86	250.00	Pass
11ax (HE40) (RU484)	CH38	15.42	34.84	250.00	Pass
11ax (HE40) (RU484)	CH46	15.32	34.05	250.00	Pass
11ax (HE80) (RU996)	CH42	15.79	37.93	250.00	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH52	13.38	21.78	250.00	Pass
11a	CH60	13.15	20.65	250.00	Pass
11a	CH64	13.29	21.33	250.00	Pass
11n (HT20)	CH52	13.48	22.28	250.00	Pass
11n (HT20)	CH60	13.58	22.80	250.00	Pass
11n (HT20)	CH64	13.60	22.91	250.00	Pass
11n (HT40)	CH54	12.43	17.50	250.00	Pass
11n (HT40)	CH62	12.70	18.62	250.00	Pass
11ac (VHT20)	CH52	12.68	18.54	250.00	Pass
11ac (VHT20)	CH60	12.47	17.66	250.00	Pass
11ac (VHT20)	CH64	12.58	18.11	250.00	Pass
11ac (VHT40)	CH54	15.05	31.99	250.00	Pass
11ac (VHT40)	CH62	15.37	34.43	250.00	Pass
11ac (VHT80)	CH58	14.50	28.18	250.00	Pass
11ax (HE20) (SU)	CH52	15.25	33.50	250.00	Pass
11ax (HE20) (SU)	CH60	15.26	33.57	250.00	Pass
11ax (HE20) (SU)	CH64	15.23	33.34	250.00	Pass
11ax (HE40) (SU)	CH54	12.21	16.63	250.00	Pass
11ax (HE40) (SU)	CH62	12.87	19.36	250.00	Pass
11ax (HE80) (SU)	CH58	14.84	30.48	250.00	Pass
11ax (HE20) (RU26)	CH52	9.45	8.82	250.00	Pass
11ax (HE20) (RU26)	CH60	11.06	12.77	250.00	Pass
11ax (HE20) (RU26)	CH64	11.32	13.56	250.00	Pass
11ax (HE20) (RU52)	CH52	12.10	16.23	250.00	Pass
11ax (HE20) (RU52)	CH60	12.70	18.63	250.00	Pass
11ax (HE20) (RU52)	CH64	13.00	19.97	250.00	Pass
11ax (HE20) (RU106)	CH52	14.14	25.96	250.00	Pass
11ax (HE20) (RU106)	CH60	14.80	30.22	250.00	Pass
11ax (HE20) (RU106)	CH64	15.08	32.23	250.00	Pass
11ax (HE20) (RU242)	CH52	15.09	32.31	250.00	Pass
11ax (HE20) (RU242)	CH60	15.63	36.58	250.00	Pass
11ax (HE20) (RU242)	CH64	15.88	38.75	250.00	Pass
11ax (HE40) (RU484)	CH54	15.48	35.33	250.00	Pass
11ax (HE40) (RU484)	CH62	16.13	41.03	250.00	Pass
11ax (HE80) (RU996)	CH58	16.08	40.55	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH100	12.03	15.96	250.00	Pass
11a	CH116	12.55	17.99	250.00	Pass
11a	CH140	13.32	21.48	250.00	Pass
11n (HT20)	CH100	12.47	17.66	250.00	Pass
11n (HT20)	CH116	12.94	19.68	250.00	Pass
11n (HT20)	CH140	13.61	22.96	250.00	Pass
11n (HT40)	CH102	12.13	16.33	250.00	Pass
11n (HT40)	CH118	12.45	17.58	250.00	Pass
11n (HT40)	CH134	13.77	23.82	250.00	Pass
11ac (VHT20)	CH100	11.29	13.46	250.00	Pass
11ac (VHT20)	CH116	12.22	16.67	250.00	Pass
11ac (VHT20)	CH140	12.70	18.62	250.00	Pass
11ac (VHT40)	CH102	14.15	26.00	250.00	Pass
11ac (VHT40)	CH118	15.05	31.99	250.00	Pass
11ac (VHT40)	CH134	16.18	41.50	250.00	Pass
11ac (VHT80)	CH106	13.68	23.33	250.00	Pass
11ac (VHT80)	CH122	14.49	28.12	250.00	Pass
11ax (HE20) (SU)	CH100	15.06	32.06	250.00	Pass
11ax (HE20) (SU)	CH116	15.63	36.56	250.00	Pass
11ax (HE20) (SU)	CH140	16.25	42.17	250.00	Pass
11ax (HE40) (SU)	CH102	12.64	18.37	250.00	Pass
11ax (HE40) (SU)	CH118	12.54	17.95	250.00	Pass
11ax (HE40) (SU)	CH134	14.07	25.53	250.00	Pass
11ax (HE80) (SU)	CH106	14.09	25.64	250.00	Pass
11ax (HE80) (SU)	CH122	14.82	30.34	250.00	Pass
11ax (HE20) (RU26)	CH100	11.10	12.89	250.00	Pass
11ax (HE20) (RU26)	CH116	10.41	11.00	250.00	Pass
11ax (HE20) (RU26)	CH140	11.53	14.23	250.00	Pass
11ax (HE20) (RU52)	CH100	12.46	17.63	250.00	Pass
11ax (HE20) (RU52)	CH116	12.88	19.42	250.00	Pass
11ax (HE20) (RU52)	CH140	13.89	24.51	250.00	Pass
11ax (HE20) (RU106)	CH100	14.51	28.27	250.00	Pass
11ax (HE20) (RU106)	CH116	14.81	30.29	250.00	Pass
11ax (HE20) (RU106)	CH140	15.78	37.87	250.00	Pass
11ax (HE20) (RU242)	CH100	15.33	34.14	250.00	Pass
11ax (HE20) (RU242)	CH116	15.57	36.08	250.00	Pass
11ax (HE20) (RU242)	CH140	16.51	44.80	250.00	Pass
11ax (HE40) (RU484)	CH102	15.63	36.57	250.00	Pass
11ax (HE40) (RU484)	CH118	16.15	41.22	250.00	Pass
11ax (HE40) (RU484)	CH134	17.48	55.99	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11ax (HE80) (RU996)	CH106	15.38	34.52	250.00	Pass
11ax (HE80) (RU996)	CH122	16.33	42.95	250.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH149	13.44	22.08	1000	Pass
11a	CH157	13.43	22.03	1000	Pass
11a	CH165	13.35	21.63	1000	Pass
11n (HT20)	CH149	14.07	25.53	1000	Pass
11n (HT20)	CH157	13.91	24.60	1000	Pass
11n (HT20)	CH165	13.84	24.21	1000	Pass
11n (HT40)	CH151	12.97	19.82	1000	Pass
11n (HT40)	CH159	13.03	20.09	1000	Pass
11ac (VHT20)	CH149	12.51	17.82	1000	Pass
11ac (VHT20)	CH157	12.75	18.84	1000	Pass
11ac (VHT20)	CH165	12.29	16.94	1000	Pass
11ac (VHT40)	CH151	15.21	33.19	1000	Pass
11ac (VHT40)	CH159	14.89	30.83	1000	Pass
11ac (VHT80)	CH155	14.85	30.55	1000	Pass
11ax (HE20) (SU)	CH149	15.67	36.90	1000	Pass
11ax (HE20) (SU)	CH157	15.81	38.11	1000	Pass
11ax (HE20) (SU)	CH165	15.70	37.15	1000	Pass
11ax (HE40) (SU)	CH151	13.48	22.28	1000	Pass
11ax (HE40) (SU)	CH159	13.74	23.66	1000	Pass
11ax (HE80) (SU)	CH155	15.06	32.06	1000	Pass
11ax (HE20) (RU26)	CH149	11.35	13.65	1000	Pass
11ax (HE20) (RU26)	CH157	11.69	14.77	1000	Pass
11ax (HE20) (RU26)	CH165	11.43	13.91	1000	Pass
11ax (HE20) (RU52)	CH149	13.81	24.06	1000	Pass
11ax (HE20) (RU52)	CH157	14.14	25.96	1000	Pass
11ax (HE20) (RU52)	CH165	13.84	24.23	1000	Pass
11ax (HE20) (RU106)	CH149	15.65	36.75	1000	Pass
11ax (HE20) (RU106)	CH157	16.09	40.67	1000	Pass
11ax (HE20) (RU106)	CH165	15.80	38.04	1000	Pass
11ax (HE20) (RU242)	CH149	16.56	45.32	1000	Pass
11ax (HE20) (RU242)	CH157	16.84	48.34	1000	Pass
11ax (HE20) (RU242)	CH165	16.47	44.39	1000	Pass
11ax (HE40) (RU484)	CH151	17.26	53.22	1000	Pass
11ax (HE40) (RU484)	CH159	17.54	56.77	1000	Pass
11ax (HE80) (RU996)	CH155	17.40	54.96	1000	Pass

MIMO Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH36	15.58	36.16	250.00	Pass
11a	CH44	15.14	32.66	250.00	Pass
11a	CH48	15.19	33.03	250.00	Pass
11n (HT20)	CH36	16.49	44.61	250.00	Pass
11n (HT20)	CH44	16.50	44.63	250.00	Pass
11n (HT20)	CH48	16.23	41.99	250.00	Pass
11n (HT40)	CH38	16.08	40.51	250.00	Pass
11n (HT40)	CH46	15.39	34.62	250.00	Pass
11ac (VHT20)	CH36	15.43	34.89	250.00	Pass
11ac (VHT20)	CH44	15.67	36.93	250.00	Pass
11ac (VHT20)	CH48	14.66	29.25	250.00	Pass
11ac (VHT40)	CH38	18.01	63.26	250.00	Pass
11ac (VHT40)	CH46	17.47	55.86	250.00	Pass
11ac (VHT80)	CH42	17.53	56.68	250.00	Pass
11ax (HE20) (SU)	CH36	18.49	70.59	250.00	Pass
11ax (HE20) (SU)	CH44	17.59	57.40	250.00	Pass
11ax (HE20) (SU)	CH48	17.41	55.12	250.00	Pass
11ax (HE40) (SU)	CH38	15.33	34.12	250.00	Pass
11ax (HE40) (SU)	CH46	15.50	35.45	250.00	Pass
11ax (HE80) (SU)	CH42	18.18	65.77	250.00	Pass
11ax (HE20) (RU26)	CH36	13.47	22.24	250.00	Pass
11ax (HE20) (RU26)	CH44	12.34	17.14	250.00	Pass
11ax (HE20) (RU26)	CH48	12.62	18.30	250.00	Pass
11ax (HE20) (RU52)	CH36	14.95	31.25	250.00	Pass
11ax (HE20) (RU52)	CH44	15.02	31.76	250.00	Pass
11ax (HE20) (RU52)	CH48	15.18	32.96	250.00	Pass
11ax (HE20) (RU106)	CH36	17.17	52.17	250.00	Pass
11ax (HE20) (RU106)	CH44	17.01	50.28	250.00	Pass
11ax (HE20) (RU106)	CH48	17.55	56.87	250.00	Pass
11ax (HE20) (RU242)	CH36	19.58	90.76	250.00	Pass
11ax (HE20) (RU242)	CH44	17.82	60.52	250.00	Pass
11ax (HE20) (RU242)	CH48	18.09	64.39	250.00	Pass
11ax (HE40) (RU484)	CH38	18.30	67.66	250.00	Pass
11ax (HE40) (RU484)	CH46	18.14	65.17	250.00	Pass
11ax (HE80) (RU996)	CH42	18.62	72.85	250.00	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH52	15.59	36.20	250.00	Pass
11a	CH60	15.46	35.14	250.00	Pass
11a	CH64	15.38	34.51	250.00	Pass
11n (HT20)	CH52	15.71	37.25	250.00	Pass
11n (HT20)	CH60	15.72	37.32	250.00	Pass
11n (HT20)	CH64	15.78	37.80	250.00	Pass
11n (HT40)	CH54	14.72	29.63	250.00	Pass
11n (HT40)	CH62	14.86	30.59	250.00	Pass
11ac (VHT20)	CH52	14.89	30.84	250.00	Pass
11ac (VHT20)	CH60	14.68	29.36	250.00	Pass
11ac (VHT20)	CH64	14.71	29.59	250.00	Pass
11ac (VHT40)	CH54	17.11	51.44	250.00	Pass
11ac (VHT40)	CH62	17.22	52.72	250.00	Pass
11ac (VHT80)	CH58	16.61	45.76	250.00	Pass
11ax (HE20) (SU)	CH52	17.37	54.63	250.00	Pass
11ax (HE20) (SU)	CH60	17.56	57.02	250.00	Pass
11ax (HE20) (SU)	CH64	17.55	56.95	250.00	Pass
11ax (HE40) (SU)	CH54	14.57	28.66	250.00	Pass
11ax (HE40) (SU)	CH62	15.03	31.84	250.00	Pass
11ax (HE80) (SU)	CH58	18.05	63.90	250.00	Pass
11ax (HE20) (RU26)	CH52	12.50	17.80	250.00	Pass
11ax (HE20) (RU26)	CH60	13.75	23.72	250.00	Pass
11ax (HE20) (RU26)	CH64	13.92	24.63	250.00	Pass
11ax (HE20) (RU52)	CH52	15.11	32.46	250.00	Pass
11ax (HE20) (RU52)	CH60	15.55	35.86	250.00	Pass
11ax (HE20) (RU52)	CH64	15.70	37.20	250.00	Pass
11ax (HE20) (RU106)	CH52	17.08	51.04	250.00	Pass
11ax (HE20) (RU106)	CH60	17.55	56.84	250.00	Pass
11ax (HE20) (RU106)	CH64	17.70	58.92	250.00	Pass
11ax (HE20) (RU242)	CH52	17.95	62.39	250.00	Pass
11ax (HE20) (RU242)	CH60	18.39	69.04	250.00	Pass
11ax (HE20) (RU242)	CH64	18.53	71.36	250.00	Pass
11ax (HE40) (RU484)	CH54	17.97	62.68	250.00	Pass
11ax (HE40) (RU484)	CH62	18.61	72.59	250.00	Pass
11ax (HE80) (RU996)	CH58	18.71	74.28	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH100	14.75	29.83	250.00	Pass
11a	CH116	15.41	34.78	250.00	Pass
11a	CH140	15.99	39.68	250.00	Pass
11n (HT20)	CH100	15.25	33.51	250.00	Pass
11n (HT20)	CH116	15.82	38.17	250.00	Pass
11n (HT20)	CH140	16.34	43.10	250.00	Pass
11n (HT40)	CH102	14.47	28.00	250.00	Pass
11n (HT40)	CH118	14.83	30.40	250.00	Pass
11n (HT40)	CH134	15.66	36.79	250.00	Pass
11ac (VHT20)	CH100	13.90	24.55	250.00	Pass
11ac (VHT20)	CH116	14.70	29.50	250.00	Pass
11ac (VHT20)	CH140	14.99	31.56	250.00	Pass
11ac (VHT40)	CH102	17.21	52.61	250.00	Pass
11ac (VHT40)	CH118	17.35	54.32	250.00	Pass
11ac (VHT40)	CH134	18.11	64.72	250.00	Pass
11ac (VHT80)	CH106	16.28	42.48	250.00	Pass
11ac (VHT80)	CH122	17.26	53.18	250.00	Pass
11ax (HE20) (SU)	CH100	17.41	55.02	250.00	Pass
11ax (HE20) (SU)	CH116	18.28	67.32	250.00	Pass
11ax (HE20) (SU)	CH140	18.52	71.14	250.00	Pass
11ax (HE40) (SU)	CH102	15.45	35.04	250.00	Pass
11ax (HE40) (SU)	CH118	15.72	37.31	250.00	Pass
11ax (HE40) (SU)	CH134	16.12	40.94	250.00	Pass
11ax (HE80) (SU)	CH106	17.65	58.23	250.00	Pass
11ax (HE80) (SU)	CH122	18.49	70.61	250.00	Pass
11ax (HE20) (RU26)	CH100	13.72	23.54	250.00	Pass
11ax (HE20) (RU26)	CH116	13.49	22.33	250.00	Pass
11ax (HE20) (RU26)	CH140	14.22	26.43	250.00	Pass
11ax (HE20) (RU52)	CH100	15.34	34.16	250.00	Pass
11ax (HE20) (RU52)	CH116	15.93	39.16	250.00	Pass
11ax (HE20) (RU52)	CH140	16.58	45.51	250.00	Pass
11ax (HE20) (RU106)	CH100	17.33	54.05	250.00	Pass
11ax (HE20) (RU106)	CH116	17.80	60.23	250.00	Pass
11ax (HE20) (RU106)	CH140	18.42	69.51	250.00	Pass
11ax (HE20) (RU242)	CH100	18.11	64.71	250.00	Pass
11ax (HE20) (RU242)	CH116	18.61	72.67	250.00	Pass
11ax (HE20) (RU242)	CH140	19.16	82.50	250.00	Pass
11ax (HE40) (RU484)	CH102	18.25	66.84	250.00	Pass
11ax (HE40) (RU484)	CH118	18.89	77.53	250.00	Pass
11ax (HE40) (RU484)	CH134	19.71	93.58	250.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11ax (HE80) (RU996)	CH106	18.18	65.78	250.00	Pass
11ax (HE80) (RU996)	CH122	19.30	85.13	250.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	Limit (mW)	Verdict
11a	CH149	16.11	40.79	1000	Pass
11a	CH157	16.19	41.57	1000	Pass
11a	CH165	16.04	40.21	1000	Pass
11n (HT20)	CH149	16.64	46.09	1000	Pass
11n (HT20)	CH157	16.58	45.50	1000	Pass
11n (HT20)	CH165	16.44	44.03	1000	Pass
11n (HT40)	CH151	15.50	35.52	1000	Pass
11n (HT40)	CH159	15.41	34.78	1000	Pass
11ac (VHT20)	CH149	15.18	32.99	1000	Pass
11ac (VHT20)	CH157	15.32	34.01	1000	Pass
11ac (VHT20)	CH165	14.98	31.46	1000	Pass
11ac (VHT40)	CH151	17.59	57.40	1000	Pass
11ac (VHT40)	CH159	17.71	59.08	1000	Pass
11ac (VHT80)	CH155	17.32	53.99	1000	Pass
11ax (HE20) (SU)	CH149	17.92	61.96	1000	Pass
11ax (HE20) (SU)	CH157	18.02	63.46	1000	Pass
11ax (HE20) (SU)	CH165	17.79	60.12	1000	Pass
11ax (HE40) (SU)	CH151	15.85	38.50	1000	Pass
11ax (HE40) (SU)	CH159	15.78	37.88	1000	Pass
11ax (HE80) (SU)	CH155	17.20	52.43	1000	Pass
11ax (HE20) (RU26)	CH149	14.07	25.52	1000	Pass
11ax (HE20) (RU26)	CH157	14.27	26.71	1000	Pass
11ax (HE20) (RU26)	CH165	14.05	25.42	1000	Pass
11ax (HE20) (RU52)	CH149	16.54	45.11	1000	Pass
11ax (HE20) (RU52)	CH157	16.73	47.06	1000	Pass
11ax (HE20) (RU52)	CH165	16.47	44.38	1000	Pass
11ax (HE20) (RU106)	CH149	18.36	68.62	1000	Pass
11ax (HE20) (RU106)	CH157	18.61	72.61	1000	Pass
11ax (HE20) (RU106)	CH165	18.37	68.76	1000	Pass
11ax (HE20) (RU242)	CH149	19.21	83.36	1000	Pass
11ax (HE20) (RU242)	CH157	19.39	86.82	1000	Pass
11ax (HE20) (RU242)	CH165	19.08	80.97	1000	Pass
11ax (HE40) (RU484)	CH151	19.60	91.16	1000	Pass
11ax (HE40) (RU484)	CH159	19.74	94.19	1000	Pass
11ax (HE80) (RU996)	CH155	19.82	95.98	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2670015-604 Data Part 1.pdf”.

Note 2: All antenna were tested, but only the worst case has been reported in this report.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	25.260	17.045
11a	CH44	25.300	17.050
11a	CH48	19.970	16.544
11n (HT20)	CH36	26.310	18.179
11n (HT20)	CH44	25.650	18.163
11n (HT20)	CH48	20.580	17.661
11n (HT40)	CH38	40.100	35.901
11n (HT40)	CH46	40.130	35.925
11ac (VHT20)	CH36	26.450	18.187
11ac (VHT20)	CH44	26.910	18.115
11ac (VHT20)	CH48	20.360	17.642
11ac (VHT40)	CH38	40.730	35.964
11ac (VHT40)	CH46	40.440	35.968
11ac (VHT80)	CH42	98.580	75.295
11ax (HE20) (SU)	CH36	29.430	19.136
11ax (HE20) (SU)	CH44	22.280	19.056
11ax (HE20) (SU)	CH48	19.940	18.856
11ax (HE40) (SU)	CH38	39.500	37.463
11ax (HE40) (SU)	CH46	39.600	37.408
11ax (HE80) (SU)	CH42	80.270	76.839

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	25.170	17.073
11a	CH60	25.600	17.047
11a	CH64	26.080	17.053
11n (HT20)	CH52	26.240	18.139
11n (HT20)	CH60	26.790	18.197
11n (HT20)	CH64	25.960	18.160
11n (HT40)	CH54	40.370	35.863
11n (HT40)	CH62	40.190	35.883
11ac (VHT20)	CH52	26.980	18.157
11ac (VHT20)	CH60	25.900	18.141
11ac (VHT20)	CH64	25.780	18.149
11ac (VHT40)	CH54	40.250	35.905
11ac (VHT40)	CH62	40.140	35.904
11ac (VHT80)	CH58	79.920	75.144
11ax (HE20) (SU)	CH52	22.530	19.010
11ax (HE20) (SU)	CH60	22.340	19.015
11ax (HE20) (SU)	CH64	22.390	19.014
11ax (HE40) (SU)	CH54	39.550	37.454
11ax (HE40) (SU)	CH62	39.600	37.462
11ax (HE80) (SU)	CH58	80.270	76.751

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	25.150	17.040
11a	CH116	25.730	17.027
11a	CH140	25.260	17.050
11n (HT20)	CH100	26.370	18.124
11n (HT20)	CH116	25.510	18.186
11n (HT20)	CH140	28.050	18.177
11n (HT40)	CH102	40.300	35.916
11n (HT40)	CH118	40.330	35.897
11n (HT40)	CH134	40.190	35.908
11ac (VHT20)	CH100	26.210	18.152
11ac (VHT20)	CH116	25.560	18.169
11ac (VHT20)	CH140	26.670	18.170
11ac (VHT40)	CH102	40.530	35.888
11ac (VHT40)	CH118	43.290	35.993
11ac (VHT40)	CH134	44.330	35.971
11ac (VHT80)	CH106	79.890	75.095
11ac (VHT80)	CH122	79.960	75.085
11ax (HE20) (SU)	CH100	22.880	19.044
11ax (HE20) (SU)	CH116	22.280	19.043
11ax (HE20) (SU)	CH140	22.150	19.007
11ax (HE40) (SU)	CH102	39.540	37.458
11ax (HE40) (SU)	CH118	39.540	37.469
11ax (HE40) (SU)	CH134	39.510	37.478
11ax (HE80) (SU)	CH106	80.210	76.742
11ax (HE80) (SU)	CH122	80.270	76.749

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	26.200	17.110
11a	CH157	26.870	17.119
11a	CH165	29.290	17.130
11n (HT20)	CH149	29.680	18.404
11n (HT20)	CH157	28.330	18.207
11n (HT20)	CH165	28.270	18.306
11n (HT40)	CH151	40.090	35.885
11n (HT40)	CH159	40.330	35.924
11ac (VHT20)	CH149	26.270	18.174
11ac (VHT20)	CH157	27.150	18.157
11ac (VHT20)	CH165	27.460	18.156
11ac (VHT40)	CH151	49.300	36.099
11ac (VHT40)	CH159	68.870	36.947
11ac (VHT80)	CH155	147.900	75.761
11ax (HE20) (SU)	CH149	26.960	19.433
11ax (HE20) (SU)	CH157	26.150	19.398
11ax (HE20) (SU)	CH165	25.630	19.374
11ax (HE40) (SU)	CH151	40.260	37.560
11ax (HE40) (SU)	CH159	39.550	37.523
11ax (HE80) (SU)	CH155	118.600	77.162

A.3 6 dB Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2670015-604 Data Part 2.pdf”.

Note 2: All antenna were tested, but only the worst case has been reported in this report.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.700	500.00	Pass
11a	CH157	16.600	500.00	Pass
11a	CH165	16.700	500.00	Pass
11n (HT20)	CH149	17.900	500.00	Pass
11n (HT20)	CH157	18.000	500.00	Pass
11n (HT20)	CH165	17.800	500.00	Pass
11n (HT40)	CH151	34.000	500.00	Pass
11n (HT40)	CH159	35.200	500.00	Pass
11ac (VHT20)	CH149	17.900	500.00	Pass
11ac (VHT20)	CH157	17.900	500.00	Pass
11ac (VHT20)	CH165	17.900	500.00	Pass
11ac (VHT40)	CH151	34.200	500.00	Pass
11ac (VHT40)	CH159	34.600	500.00	Pass
11ac (VHT80)	CH155	75.900	500.00	Pass
11ax (HE20) (SU)	CH149	19.200	500.00	Pass
11ax (HE20) (SU)	CH157	19.200	500.00	Pass
11ax (HE20) (SU)	CH165	19.200	500.00	Pass
11ax (HE40) (SU)	CH151	37.300	500.00	Pass
11ax (HE40) (SU)	CH159	37.400	500.00	Pass
11ax (HE80) (SU)	CH155	77.400	500.00	Pass

A.4 Power Spectral Density

Note 1: Test plots please refer to the document “Annex No.: BL-SH2670015-604 Data Part 3.pdf”.

Note 2: The PSD has considered the Duty Factor.

Test Data

Main Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	1.49	11.00	Pass
11a	CH44	0.83	11.00	Pass
11a	CH48	1.06	11.00	Pass
11n (HT20)	CH36	2.71	11.00	Pass
11n (HT20)	CH44	2.37	11.00	Pass
11n (HT20)	CH48	2.33	11.00	Pass
11n (HT40)	CH38	0.34	11.00	Pass
11n (HT40)	CH46	-0.99	11.00	Pass
11ac (VHT20)	CH36	2.83	11.00	Pass
11ac (VHT20)	CH44	1.15	11.00	Pass
11ac (VHT20)	CH48	2.06	11.00	Pass
11ac (VHT40)	CH38	1.25	11.00	Pass
11ac (VHT40)	CH46	1.05	11.00	Pass
11ac (VHT80)	CH42	-2.23	11.00	Pass
11ax (HE20) (SU)	CH36	3.59	11.00	Pass
11ax (HE20) (SU)	CH44	3.65	11.00	Pass
11ax (HE20) (SU)	CH48	3.84	11.00	Pass
11ax (HE40) (SU)	CH38	-0.22	11.00	Pass
11ax (HE40) (SU)	CH46	-1.41	11.00	Pass
11ax (HE80) (SU)	CH42	-2.61	11.00	Pass
11ax (HE20) (RU26)	CH36	7.83	11.00	Pass
11ax (HE20) (RU26)	CH44	6.50	11.00	Pass
11ax (HE20) (RU26)	CH48	6.90	11.00	Pass
11ax (HE20) (RU52)	CH36	5.99	11.00	Pass
11ax (HE20) (RU52)	CH44	6.37	11.00	Pass
11ax (HE20) (RU52)	CH48	6.63	11.00	Pass
11ax (HE20) (RU106)	CH36	5.43	11.00	Pass
11ax (HE20) (RU106)	CH44	5.34	11.00	Pass
11ax (HE20) (RU106)	CH48	6.13	11.00	Pass
11ax (HE20) (RU242)	CH36	5.08	11.00	Pass
11ax (HE20) (RU242)	CH44	3.41	11.00	Pass
11ax (HE20) (RU242)	CH48	3.95	11.00	Pass
11ax (HE40) (RU484)	CH38	1.71	11.00	Pass
11ax (HE40) (RU484)	CH46	1.66	11.00	Pass
11ax (HE80) (RU996)	CH42	-0.33	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	2.64	11.00	Pass
11a	CH60	2.44	11.00	Pass
11a	CH64	0.27	11.00	Pass
11n (HT20)	CH52	0.56	11.00	Pass
11n (HT20)	CH60	0.44	11.00	Pass
11n (HT20)	CH64	0.47	11.00	Pass
11n (HT40)	CH54	-2.28	11.00	Pass
11n (HT40)	CH62	-2.39	11.00	Pass
11ac (VHT20)	CH52	-0.31	11.00	Pass
11ac (VHT20)	CH60	-0.53	11.00	Pass
11ac (VHT20)	CH64	-0.59	11.00	Pass
11ac (VHT40)	CH54	-0.26	11.00	Pass
11ac (VHT40)	CH62	1.09	11.00	Pass
11ac (VHT80)	CH58	-4.24	11.00	Pass
11ax (HE20) (SU)	CH52	1.60	11.00	Pass
11ax (HE20) (SU)	CH60	1.95	11.00	Pass
11ax (HE20) (SU)	CH64	2.07	11.00	Pass
11ax (HE40) (SU)	CH54	-2.79	11.00	Pass
11ax (HE40) (SU)	CH62	-2.68	11.00	Pass
11ax (HE80) (SU)	CH58	-1.50	11.00	Pass
11ax (HE20) (RU26)	CH52	6.87	11.00	Pass
11ax (HE20) (RU26)	CH60	7.57	11.00	Pass
11ax (HE20) (RU26)	CH64	7.58	11.00	Pass
11ax (HE20) (RU52)	CH52	6.47	11.00	Pass
11ax (HE20) (RU52)	CH60	6.66	11.00	Pass
11ax (HE20) (RU52)	CH64	6.81	11.00	Pass
11ax (HE20) (RU106)	CH52	5.25	11.00	Pass
11ax (HE20) (RU106)	CH60	5.61	11.00	Pass
11ax (HE20) (RU106)	CH64	5.59	11.00	Pass
11ax (HE20) (RU242)	CH52	3.35	11.00	Pass
11ax (HE20) (RU242)	CH60	3.81	11.00	Pass
11ax (HE20) (RU242)	CH64	3.85	11.00	Pass
11ax (HE40) (RU484)	CH54	0.82	11.00	Pass
11ax (HE40) (RU484)	CH62	1.60	11.00	Pass
11ax (HE80) (RU996)	CH58	-0.39	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	0.35	11.00	Pass
11a	CH116	1.26	11.00	Pass
11a	CH140	1.72	11.00	Pass
11n (HT20)	CH100	0.66	11.00	Pass
11n (HT20)	CH116	1.35	11.00	Pass
11n (HT20)	CH140	1.84	11.00	Pass
11n (HT40)	CH102	-2.65	11.00	Pass
11n (HT40)	CH118	-2.19	11.00	Pass
11n (HT40)	CH134	-2.09	11.00	Pass
11ac (VHT20)	CH100	-0.84	11.00	Pass
11ac (VHT20)	CH116	-0.15	11.00	Pass
11ac (VHT20)	CH140	-0.02	11.00	Pass
11ac (VHT40)	CH102	0.93	11.00	Pass
11ac (VHT40)	CH118	0.24	11.00	Pass
11ac (VHT40)	CH134	0.42	11.00	Pass
11ac (VHT80)	CH106	-4.02	11.00	Pass
11ac (VHT80)	CH122	-2.73	11.00	Pass
11ax (HE20) (SU)	CH100	3.19	11.00	Pass
11ax (HE20) (SU)	CH116	3.18	11.00	Pass
11ax (HE20) (SU)	CH140	2.97	11.00	Pass
11ax (HE40) (SU)	CH102	-1.57	11.00	Pass
11ax (HE40) (SU)	CH118	-0.82	11.00	Pass
11ax (HE40) (SU)	CH134	-1.72	11.00	Pass
11ax (HE80) (SU)	CH106	-1.84	11.00	Pass
11ax (HE80) (SU)	CH122	-0.79	11.00	Pass
11ax (HE20) (RU26)	CH100	7.39	11.00	Pass
11ax (HE20) (RU26)	CH116	7.59	11.00	Pass
11ax (HE20) (RU26)	CH140	8.14	11.00	Pass
11ax (HE20) (RU52)	CH100	6.55	11.00	Pass
11ax (HE20) (RU52)	CH116	7.37	11.00	Pass
11ax (HE20) (RU52)	CH140	7.65	11.00	Pass
11ax (HE20) (RU106)	CH100	5.64	11.00	Pass
11ax (HE20) (RU106)	CH116	6.33	11.00	Pass
11ax (HE20) (RU106)	CH140	6.28	11.00	Pass
11ax (HE20) (RU242)	CH100	3.53	11.00	Pass
11ax (HE20) (RU242)	CH116	4.25	11.00	Pass
11ax (HE20) (RU242)	CH140	4.46	11.00	Pass
11ax (HE40) (RU484)	CH102	1.28	11.00	Pass
11ax (HE40) (RU484)	CH118	2.08	11.00	Pass
11ax (HE40) (RU484)	CH134	2.35	11.00	Pass
11ax (HE80) (RU996)	CH106	-0.89	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE80) (RU996)	CH122	0.56	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-1.01	30.00	Pass
11a	CH157	-0.81	30.00	Pass
11a	CH165	-1.09	30.00	Pass
11n (HT20)	CH149	-0.85	30.00	Pass
11n (HT20)	CH157	-0.89	30.00	Pass
11n (HT20)	CH165	-1.09	30.00	Pass
11n (HT40)	CH151	-4.12	30.00	Pass
11n (HT40)	CH159	-4.40	30.00	Pass
11ac (VHT20)	CH149	-2.15	30.00	Pass
11ac (VHT20)	CH157	-2.15	30.00	Pass
11ac (VHT20)	CH165	-2.45	30.00	Pass
11ac (VHT40)	CH151	-2.26	30.00	Pass
11ac (VHT40)	CH159	-1.52	30.00	Pass
11ac (VHT80)	CH155	-5.92	30.00	Pass
11ax (HE20) (SU)	CH149	-0.48	30.00	Pass
11ax (HE20) (SU)	CH157	1.57	30.00	Pass
11ax (HE20) (SU)	CH165	-0.95	30.00	Pass
11ax (HE40) (SU)	CH151	-4.26	30.00	Pass
11ax (HE40) (SU)	CH159	-4.96	30.00	Pass
11ax (HE80) (SU)	CH155	-6.50	30.00	Pass
11ax (HE20) (RU26)	CH149	4.97	30.00	Pass
11ax (HE20) (RU26)	CH157	4.88	30.00	Pass
11ax (HE20) (RU26)	CH165	4.61	30.00	Pass
11ax (HE20) (RU52)	CH149	4.78	30.00	Pass
11ax (HE20) (RU52)	CH157	4.63	30.00	Pass
11ax (HE20) (RU52)	CH165	4.26	30.00	Pass
11ax (HE20) (RU106)	CH149	3.47	30.00	Pass
11ax (HE20) (RU106)	CH157	3.44	30.00	Pass
11ax (HE20) (RU106)	CH165	3.27	30.00	Pass
11ax (HE20) (RU242)	CH149	1.25	30.00	Pass
11ax (HE20) (RU242)	CH157	1.26	30.00	Pass
11ax (HE20) (RU242)	CH165	1.23	30.00	Pass
11ax (HE40) (RU484)	CH151	-0.81	30.00	Pass
11ax (HE40) (RU484)	CH159	-0.82	30.00	Pass
11ax (HE80) (RU996)	CH155	-2.56	30.00	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	1.74	11.00	Pass
11a	CH44	1.48	11.00	Pass
11a	CH48	1.78	11.00	Pass
11n (HT20)	CH36	1.99	11.00	Pass
11n (HT20)	CH44	2.37	11.00	Pass
11n (HT20)	CH48	2.35	11.00	Pass
11n (HT40)	CH38	-0.52	11.00	Pass
11n (HT40)	CH46	-0.30	11.00	Pass
11ac (VHT20)	CH36	1.87	11.00	Pass
11ac (VHT20)	CH44	1.88	11.00	Pass
11ac (VHT20)	CH48	1.40	11.00	Pass
11ac (VHT40)	CH38	2.41	11.00	Pass
11ac (VHT40)	CH46	1.66	11.00	Pass
11ac (VHT80)	CH42	-2.05	11.00	Pass
11ax (HE20) (SU)	CH36	4.15	11.00	Pass
11ax (HE20) (SU)	CH44	2.21	11.00	Pass
11ax (HE20) (SU)	CH48	2.08	11.00	Pass
11ax (HE40) (SU)	CH38	-0.38	11.00	Pass
11ax (HE40) (SU)	CH46	-0.75	11.00	Pass
11ax (HE80) (SU)	CH42	-0.79	11.00	Pass
11ax (HE20) (RU26)	CH36	7.33	11.00	Pass
11ax (HE20) (RU26)	CH44	6.16	11.00	Pass
11ax (HE20) (RU26)	CH48	6.67	11.00	Pass
11ax (HE20) (RU52)	CH36	6.36	11.00	Pass
11ax (HE20) (RU52)	CH44	6.31	11.00	Pass
11ax (HE20) (RU52)	CH48	6.84	11.00	Pass
11ax (HE20) (RU106)	CH36	5.67	11.00	Pass
11ax (HE20) (RU106)	CH44	5.33	11.00	Pass
11ax (HE20) (RU106)	CH48	6.16	11.00	Pass
11ax (HE20) (RU242)	CH36	5.17	11.00	Pass
11ax (HE20) (RU242)	CH44	3.33	11.00	Pass
11ax (HE20) (RU242)	CH48	3.87	11.00	Pass
11ax (HE40) (RU484)	CH38	1.58	11.00	Pass
11ax (HE40) (RU484)	CH46	1.73	11.00	Pass
11ax (HE80) (RU996)	CH42	0.17	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	2.47	11.00	Pass
11a	CH60	2.23	11.00	Pass
11a	CH64	2.40	11.00	Pass
11n (HT20)	CH52	2.38	11.00	Pass
11n (HT20)	CH60	2.43	11.00	Pass
11n (HT20)	CH64	2.47	11.00	Pass
11n (HT40)	CH54	-0.68	11.00	Pass
11n (HT40)	CH62	-0.48	11.00	Pass
11ac (VHT20)	CH52	1.50	11.00	Pass
11ac (VHT20)	CH60	1.30	11.00	Pass
11ac (VHT20)	CH64	1.45	11.00	Pass
11ac (VHT40)	CH54	1.95	11.00	Pass
11ac (VHT40)	CH62	2.11	11.00	Pass
11ac (VHT80)	CH58	-2.21	11.00	Pass
11ax (HE20) (SU)	CH52	3.75	11.00	Pass
11ax (HE20) (SU)	CH60	3.67	11.00	Pass
11ax (HE20) (SU)	CH64	3.65	11.00	Pass
11ax (HE40) (SU)	CH54	-1.33	11.00	Pass
11ax (HE40) (SU)	CH62	-0.72	11.00	Pass
11ax (HE80) (SU)	CH58	-1.85	11.00	Pass
11ax (HE20) (RU26)	CH52	6.49	11.00	Pass
11ax (HE20) (RU26)	CH60	7.98	11.00	Pass
11ax (HE20) (RU26)	CH64	8.65	11.00	Pass
11ax (HE20) (RU52)	CH52	6.70	11.00	Pass
11ax (HE20) (RU52)	CH60	7.29	11.00	Pass
11ax (HE20) (RU52)	CH64	7.32	11.00	Pass
11ax (HE20) (RU106)	CH52	5.62	11.00	Pass
11ax (HE20) (RU106)	CH60	6.19	11.00	Pass
11ax (HE20) (RU106)	CH64	6.58	11.00	Pass
11ax (HE20) (RU242)	CH52	3.62	11.00	Pass
11ax (HE20) (RU242)	CH60	4.42	11.00	Pass
11ax (HE20) (RU242)	CH64	4.36	11.00	Pass
11ax (HE40) (RU484)	CH54	1.89	11.00	Pass
11ax (HE40) (RU484)	CH62	2.60	11.00	Pass
11ax (HE80) (RU996)	CH58	0.56	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	1.02	11.00	Pass
11a	CH116	1.65	11.00	Pass
11a	CH140	2.50	11.00	Pass
11n (HT20)	CH100	1.26	11.00	Pass
11n (HT20)	CH116	1.76	11.00	Pass
11n (HT20)	CH140	2.56	11.00	Pass
11n (HT40)	CH102	0.21	11.00	Pass
11n (HT40)	CH118	-0.72	11.00	Pass
11n (HT40)	CH134	0.56	11.00	Pass
11ac (VHT20)	CH100	0.03	11.00	Pass
11ac (VHT20)	CH116	1.09	11.00	Pass
11ac (VHT20)	CH140	1.57	11.00	Pass
11ac (VHT40)	CH102	0.88	11.00	Pass
11ac (VHT40)	CH118	1.85	11.00	Pass
11ac (VHT40)	CH134	2.96	11.00	Pass
11ac (VHT80)	CH106	-3.30	11.00	Pass
11ac (VHT80)	CH122	-2.37	11.00	Pass
11ax (HE20) (SU)	CH100	3.38	11.00	Pass
11ax (HE20) (SU)	CH116	3.98	11.00	Pass
11ax (HE20) (SU)	CH140	4.72	11.00	Pass
11ax (HE40) (SU)	CH102	-1.01	11.00	Pass
11ax (HE40) (SU)	CH118	-1.12	11.00	Pass
11ax (HE40) (SU)	CH134	0.43	11.00	Pass
11ax (HE80) (SU)	CH106	-2.87	11.00	Pass
11ax (HE80) (SU)	CH122	-2.00	11.00	Pass
11ax (HE20) (RU26)	CH100	8.04	11.00	Pass
11ax (HE20) (RU26)	CH116	7.55	11.00	Pass
11ax (HE20) (RU26)	CH140	8.74	11.00	Pass
11ax (HE20) (RU52)	CH100	6.67	11.00	Pass
11ax (HE20) (RU52)	CH116	6.79	11.00	Pass
11ax (HE20) (RU52)	CH140	8.12	11.00	Pass
11ax (HE20) (RU106)	CH100	5.79	11.00	Pass
11ax (HE20) (RU106)	CH116	6.14	11.00	Pass
11ax (HE20) (RU106)	CH140	6.99	11.00	Pass
11ax (HE20) (RU242)	CH100	3.78	11.00	Pass
11ax (HE20) (RU242)	CH116	3.98	11.00	Pass
11ax (HE20) (RU242)	CH140	4.93	11.00	Pass
11ax (HE40) (RU484)	CH102	1.98	11.00	Pass
11ax (HE40) (RU484)	CH118	2.74	11.00	Pass
11ax (HE40) (RU484)	CH134	3.81	11.00	Pass
11ax (HE80) (RU996)	CH106	0.20	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE80) (RU996)	CH122	0.74	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-0.24	30.00	Pass
11a	CH157	-0.20	30.00	Pass
11a	CH165	-0.42	30.00	Pass
11n (HT20)	CH149	0.20	30.00	Pass
11n (HT20)	CH157	-0.05	30.00	Pass
11n (HT20)	CH165	-0.21	30.00	Pass
11n (HT40)	CH151	-3.00	30.00	Pass
11n (HT40)	CH159	-3.02	30.00	Pass
11ac (VHT20)	CH149	-1.26	30.00	Pass
11ac (VHT20)	CH157	-1.15	30.00	Pass
11ac (VHT20)	CH165	-1.72	30.00	Pass
11ac (VHT40)	CH151	-0.84	30.00	Pass
11ac (VHT40)	CH159	-1.15	30.00	Pass
11ac (VHT80)	CH155	-4.75	30.00	Pass
11ax (HE20) (SU)	CH149	1.16	30.00	Pass
11ax (HE20) (SU)	CH157	1.33	30.00	Pass
11ax (HE20) (SU)	CH165	1.15	30.00	Pass
11ax (HE40) (SU)	CH151	-2.91	30.00	Pass
11ax (HE40) (SU)	CH159	-2.66	30.00	Pass
11ax (HE80) (SU)	CH155	-2.48	30.00	Pass
11ax (HE20) (RU26)	CH149	5.58	30.00	Pass
11ax (HE20) (RU26)	CH157	5.74	30.00	Pass
11ax (HE20) (RU26)	CH165	5.56	30.00	Pass
11ax (HE20) (RU52)	CH149	5.30	30.00	Pass
11ax (HE20) (RU52)	CH157	5.34	30.00	Pass
11ax (HE20) (RU52)	CH165	5.04	30.00	Pass
11ax (HE20) (RU106)	CH149	4.08	30.00	Pass
11ax (HE20) (RU106)	CH157	4.54	30.00	Pass
11ax (HE20) (RU106)	CH165	4.17	30.00	Pass
11ax (HE20) (RU242)	CH149	2.08	30.00	Pass
11ax (HE20) (RU242)	CH157	2.51	30.00	Pass
11ax (HE20) (RU242)	CH165	2.26	30.00	Pass
11ax (HE40) (RU484)	CH151	0.81	30.00	Pass
11ax (HE40) (RU484)	CH159	1.14	30.00	Pass
11ax (HE80) (RU996)	CH155	-1.11	30.00	Pass

MIMO Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	4.63	11.00	Pass
11a	CH44	4.18	11.00	Pass
11a	CH48	4.45	11.00	Pass
11n (HT20)	CH36	5.37	11.00	Pass
11n (HT20)	CH44	5.38	11.00	Pass
11n (HT20)	CH48	5.35	11.00	Pass
11n (HT40)	CH38	2.94	11.00	Pass
11n (HT40)	CH46	2.38	11.00	Pass
11ac (VHT20)	CH36	5.38	11.00	Pass
11ac (VHT20)	CH44	4.54	11.00	Pass
11ac (VHT20)	CH48	4.75	11.00	Pass
11ac (VHT40)	CH38	4.88	11.00	Pass
11ac (VHT40)	CH46	4.38	11.00	Pass
11ac (VHT80)	CH42	0.87	11.00	Pass
11ax (HE20) (SU)	CH36	6.89	11.00	Pass
11ax (HE20) (SU)	CH44	6.00	11.00	Pass
11ax (HE20) (SU)	CH48	6.06	11.00	Pass
11ax (HE40) (SU)	CH38	2.71	11.00	Pass
11ax (HE40) (SU)	CH46	1.94	11.00	Pass
11ax (HE80) (SU)	CH42	1.40	11.00	Pass
11ax (HE20) (RU26)	CH36	10.60	11.00	Pass
11ax (HE20) (RU26)	CH44	9.34	11.00	Pass
11ax (HE20) (RU26)	CH48	9.80	11.00	Pass
11ax (HE20) (RU52)	CH36	9.19	11.00	Pass
11ax (HE20) (RU52)	CH44	9.35	11.00	Pass
11ax (HE20) (RU52)	CH48	9.75	11.00	Pass
11ax (HE20) (RU106)	CH36	8.56	11.00	Pass
11ax (HE20) (RU106)	CH44	8.34	11.00	Pass
11ax (HE20) (RU106)	CH48	9.16	11.00	Pass
11ax (HE20) (RU242)	CH36	8.14	11.00	Pass
11ax (HE20) (RU242)	CH44	6.38	11.00	Pass
11ax (HE20) (RU242)	CH48	6.92	11.00	Pass
11ax (HE40) (RU484)	CH38	4.66	11.00	Pass
11ax (HE40) (RU484)	CH46	4.71	11.00	Pass
11ax (HE80) (RU996)	CH42	2.94	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	5.56	11.00	Pass
11a	CH60	5.35	11.00	Pass
11a	CH64	4.48	11.00	Pass
11n (HT20)	CH52	4.57	11.00	Pass
11n (HT20)	CH60	4.56	11.00	Pass
11n (HT20)	CH64	4.60	11.00	Pass
11n (HT40)	CH54	1.61	11.00	Pass
11n (HT40)	CH62	1.68	11.00	Pass
11ac (VHT20)	CH52	3.70	11.00	Pass
11ac (VHT20)	CH60	3.49	11.00	Pass
11ac (VHT20)	CH64	3.56	11.00	Pass
11ac (VHT40)	CH54	3.99	11.00	Pass
11ac (VHT40)	CH62	4.64	11.00	Pass
11ac (VHT80)	CH58	-0.10	11.00	Pass
11ax (HE20) (SU)	CH52	5.81	11.00	Pass
11ax (HE20) (SU)	CH60	5.90	11.00	Pass
11ax (HE20) (SU)	CH64	5.94	11.00	Pass
11ax (HE40) (SU)	CH54	1.01	11.00	Pass
11ax (HE40) (SU)	CH62	1.42	11.00	Pass
11ax (HE80) (SU)	CH58	1.34	11.00	Pass
11ax (HE20) (RU26)	CH52	9.69	11.00	Pass
11ax (HE20) (RU26)	CH60	10.79	11.00	Pass
11ax (HE20) (RU26)	CH64	11.16	11.00	Fail
11ax (HE20) (RU52)	CH52	9.60	11.00	Pass
11ax (HE20) (RU52)	CH60	10.00	11.00	Pass
11ax (HE20) (RU52)	CH64	10.08	11.00	Pass
11ax (HE20) (RU106)	CH52	8.45	11.00	Pass
11ax (HE20) (RU106)	CH60	8.92	11.00	Pass
11ax (HE20) (RU106)	CH64	9.12	11.00	Pass
11ax (HE20) (RU242)	CH52	6.50	11.00	Pass
11ax (HE20) (RU242)	CH60	7.14	11.00	Pass
11ax (HE20) (RU242)	CH64	7.12	11.00	Pass
11ax (HE40) (RU484)	CH54	4.40	11.00	Pass
11ax (HE40) (RU484)	CH62	5.14	11.00	Pass
11ax (HE80) (RU996)	CH58	3.12	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	3.71	11.00	Pass
11a	CH116	4.47	11.00	Pass
11a	CH140	5.14	11.00	Pass
11n (HT20)	CH100	3.98	11.00	Pass
11n (HT20)	CH116	4.57	11.00	Pass
11n (HT20)	CH140	5.22	11.00	Pass
11n (HT40)	CH102	2.02	11.00	Pass
11n (HT40)	CH118	1.61	11.00	Pass
11n (HT40)	CH134	2.45	11.00	Pass
11ac (VHT20)	CH100	2.63	11.00	Pass
11ac (VHT20)	CH116	3.52	11.00	Pass
11ac (VHT20)	CH140	3.85	11.00	Pass
11ac (VHT40)	CH102	3.91	11.00	Pass
11ac (VHT40)	CH118	4.13	11.00	Pass
11ac (VHT40)	CH134	4.88	11.00	Pass
11ac (VHT80)	CH106	-0.63	11.00	Pass
11ac (VHT80)	CH122	0.46	11.00	Pass
11ax (HE20) (SU)	CH100	6.30	11.00	Pass
11ax (HE20) (SU)	CH116	6.61	11.00	Pass
11ax (HE20) (SU)	CH140	6.94	11.00	Pass
11ax (HE40) (SU)	CH102	1.73	11.00	Pass
11ax (HE40) (SU)	CH118	2.04	11.00	Pass
11ax (HE40) (SU)	CH134	2.50	11.00	Pass
11ax (HE80) (SU)	CH106	0.68	11.00	Pass
11ax (HE80) (SU)	CH122	1.66	11.00	Pass
11ax (HE20) (RU26)	CH100	10.73	11.00	Pass
11ax (HE20) (RU26)	CH116	10.58	11.00	Pass
11ax (HE20) (RU26)	CH140	11.46	11.00	Fail
11ax (HE20) (RU52)	CH100	9.63	11.00	Pass
11ax (HE20) (RU52)	CH116	10.10	11.00	Pass
11ax (HE20) (RU52)	CH140	10.90	11.00	Pass
11ax (HE20) (RU106)	CH100	8.73	11.00	Pass
11ax (HE20) (RU106)	CH116	9.25	11.00	Pass
11ax (HE20) (RU106)	CH140	9.66	11.00	Pass
11ax (HE20) (RU242)	CH100	6.66	11.00	Pass
11ax (HE20) (RU242)	CH116	7.13	11.00	Pass
11ax (HE20) (RU242)	CH140	7.71	11.00	Pass
11ax (HE40) (RU484)	CH102	4.66	11.00	Pass
11ax (HE40) (RU484)	CH118	5.44	11.00	Pass
11ax (HE40) (RU484)	CH134	6.15	11.00	Pass
11ax (HE80) (RU996)	CH106	2.70	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE80) (RU996)	CH122	3.66	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.40	30.00	Pass
11a	CH157	2.51	30.00	Pass
11a	CH165	2.27	30.00	Pass
11n (HT20)	CH149	2.72	30.00	Pass
11n (HT20)	CH157	2.56	30.00	Pass
11n (HT20)	CH165	2.38	30.00	Pass
11n (HT40)	CH151	-0.51	30.00	Pass
11n (HT40)	CH159	-0.64	30.00	Pass
11ac (VHT20)	CH149	1.33	30.00	Pass
11ac (VHT20)	CH157	1.39	30.00	Pass
11ac (VHT20)	CH165	0.94	30.00	Pass
11ac (VHT40)	CH151	1.52	30.00	Pass
11ac (VHT40)	CH159	1.68	30.00	Pass
11ac (VHT80)	CH155	-2.29	30.00	Pass
11ax (HE20) (SU)	CH149	3.43	30.00	Pass
11ax (HE20) (SU)	CH157	4.46	30.00	Pass
11ax (HE20) (SU)	CH165	3.24	30.00	Pass
11ax (HE40) (SU)	CH151	-0.52	30.00	Pass
11ax (HE40) (SU)	CH159	-0.65	30.00	Pass
11ax (HE80) (SU)	CH155	-1.03	30.00	Pass
11ax (HE20) (RU26)	CH149	8.30	30.00	Pass
11ax (HE20) (RU26)	CH157	8.34	30.00	Pass
11ax (HE20) (RU26)	CH165	8.12	30.00	Pass
11ax (HE20) (RU52)	CH149	8.06	30.00	Pass
11ax (HE20) (RU52)	CH157	8.01	30.00	Pass
11ax (HE20) (RU52)	CH165	7.68	30.00	Pass
11ax (HE20) (RU106)	CH149	6.80	30.00	Pass
11ax (HE20) (RU106)	CH157	7.04	30.00	Pass
11ax (HE20) (RU106)	CH165	6.75	30.00	Pass
11ax (HE20) (RU242)	CH149	4.69	30.00	Pass
11ax (HE20) (RU242)	CH157	4.94	30.00	Pass
11ax (HE20) (RU242)	CH165	4.79	30.00	Pass
11ax (HE40) (RU484)	CH151	3.09	30.00	Pass
11ax (HE40) (RU484)	CH159	3.28	30.00	Pass
11ax (HE80) (RU996)	CH155	1.24	30.00	Pass

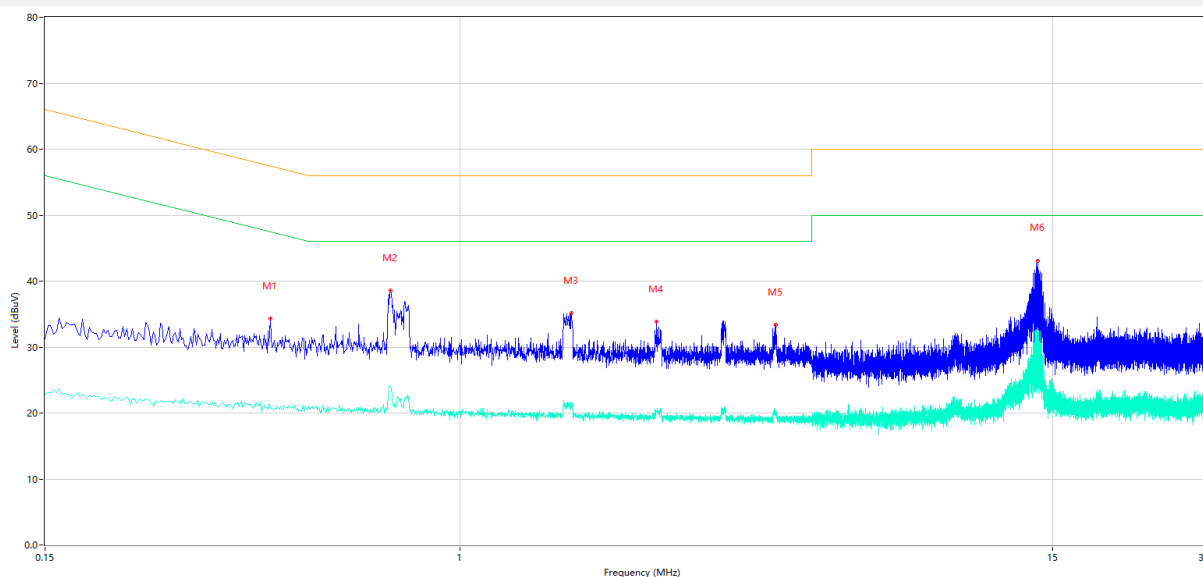
A.5 Conducted Emission

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

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

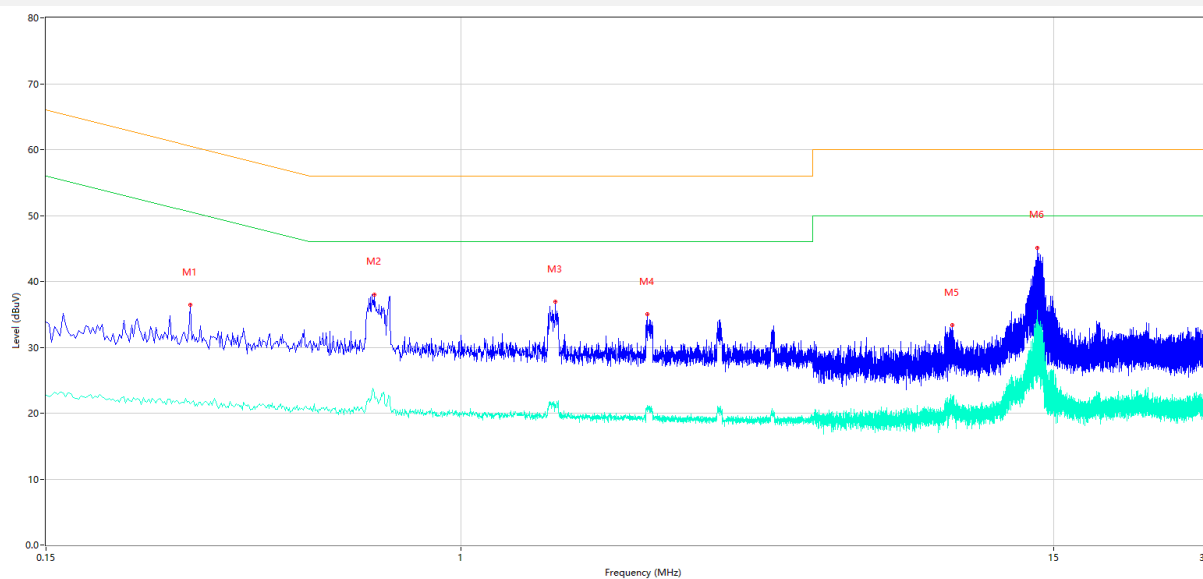
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.420	34.32	10.23	57.45	23.13	Peak	L	Pass
1**	0.420	20.94	10.23	47.45	26.51	AV	L	Pass
2	0.728	38.54	10.26	56.00	17.46	Peak	L	Pass
2**	0.728	23.97	10.26	46.00	22.03	AV	L	Pass
3	1.664	35.14	10.29	56.00	20.86	Peak	L	Pass
3**	1.664	21.45	10.29	46.00	24.55	AV	L	Pass
4	2.458	33.87	10.31	56.00	22.13	Peak	L	Pass
4**	2.458	20.34	10.31	46.00	25.66	AV	L	Pass
5	4.232	33.40	10.34	56.00	22.60	Peak	L	Pass
5**	4.232	20.00	10.34	46.00	26.00	AV	L	Pass
6	14.058	43.13	10.74	60.00	16.87	Peak	L	Pass
6**	14.058	30.52	10.74	50.00	19.48	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.290	36.47	10.16	60.52	24.05	Peak	N	Pass
1**	0.290	21.39	10.16	50.52	29.13	AV	N	Pass
2	0.672	38.04	10.14	56.00	17.96	Peak	N	Pass
2**	0.672	23.09	10.14	46.00	22.91	AV	N	Pass
3	1.540	36.91	10.15	56.00	19.09	Peak	N	Pass
3**	1.540	21.20	10.15	46.00	24.80	AV	N	Pass
4	2.344	35.00	10.16	56.00	21.00	Peak	N	Pass
4**	2.344	20.48	10.16	46.00	25.52	AV	N	Pass
5	9.440	33.34	10.32	60.00	26.66	Peak	N	Pass
5**	9.440	22.22	10.32	50.00	27.78	AV	N	Pass
6	13.916	45.13	10.57	60.00	14.87	Peak	N	Pass
6**	13.916	35.59	10.57	50.00	14.41	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Note 1: Please refer to the document “BL-SH2670015-604 Data Part 4.pdf”.

Note 2: The symbol of “--” in the table which means not application.

Note 3: For the test data above 1 GHz, According the ANSI C63.10, 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 4: 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 5: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note 6: The spurious above 18G is noise only, do not show on the report.

Note 7: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 8: All antenna were pre tested, but only the worst case has been reported in this report.

A.6.2 Band Edge (Restricted-band)

Note 1: Please refer to the document “BL-SH2670015-604 Data Part 5.pdf”.

Note 2: For the test data above 1 GHz, According the ANSI C63.10, 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: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 4: All antenna were pre tested, but only the worst case has been reported in this report.

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2670015-604-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2670015-604-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2670015-604-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
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--END OF REPORT--