



TEST REPORT

Applicant: unitech electronics co., ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist.,
New Taipei City 231, Taiwan
Equipment Type: Rugged Handheld Computer
Model Name: PA768e (refer to section 2.3)
Brand Name: unitech
FCC ID: HLE-PA768EBWNWU
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: May 23, 2025
Test Date: Jun. 26, 2025 - Jul. 07, 2025
Date of Issue: Aug. 07, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Handwritten signature of Yang Wenxuan in black ink.

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 07, 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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan

2.2 Manufacturer Information

Manufacturer	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Rugged Handheld Computer
Model Name Under Test	PA768e
Series Model Name	PA768
Description of Model name differentiation	Only differences are model names for trading purpose. (this information provided by the applicant).
Hardware Version	FH22_MB_PCB_V1.2
Software Version	RAYAe_V14.00.00.09_20250517
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+ Band 1/2/5/8 4G Network LTE FDD Band 1/2/3/4/5/7/8/12/14/17/20/28 LTE TDD Band 38/39/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax NFC, GPS, GLONASS, Galileo, BDS, UHF
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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	
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: 49.50 mW U-NII-2A: 53.78 mW U-NII-2C: 74.22 mW U-NII-3: 47.38 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 2 SISO- Antenna 3	PIFA Antenna
Antenna Gain	SISO- Antenna 2	U-NII-1: 5150 MHz to 5250 MHz: -7.15 dBi U-NII-2A: 5250 MHz to 5350 MHz: -2.92 dBi U-NII-2C: 5470 MHz to 5725 MHz: 3.21 dBi

		U-NII-3: 5725 MHz to 5850 MHz: 1.70 dBi
	SISO-Antenna 3	U-NII-1: 5150 MHz to 5250 MHz: -1.78 dBi U-NII-2A: 5250 MHz to 5350 MHz: -1.87 dBi U-NII-2C: 5470 MHz to 5725 MHz: 0.96 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.14 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: -1.05 dBi U-NII-2A: 5250 MHz to 5350 MHz: 0.63 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.17 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.41 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: -3.68 dBi U-NII-2A: 5250 MHz to 5350 MHz: -2.36 dBi U-NII-2C: 5470 MHz to 5725 MHz: 2.23 dBi U-NII-3: 5725 MHz to 5850 MHz: 0.51 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: -1.05 dBi U-NII-2A: 5250 MHz to 5350 MHz: 0.63 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.17 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.41 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: -3.68 dBi U-NII-2A: 5250 MHz to 5350 MHz: -2.36 dBi U-NII-2C: 5470 MHz to 5725 MHz: 2.23 dBi U-NII-3: 5725 MHz to 5850 MHz: 0.51 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
About the Product		The equipment is Rugged Handheld Computer, intended for used with information technology equipment.

Mode	Antenna		
	SISO-Antenna 2	SISO-Antenna 3	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				

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 ☆	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3 ☆	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

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 ^{Note3}
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass ^{Note3}
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass ^{Note3}
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass ^{Note3}
6	Conducted Emission	15.207	ANNEX A.5	Pass ^{Note3}
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass ^{Note3}

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.

Note³: Compared with the EUT of test report BL-SZ2551267-605, the changes of the EUT of this report as below:

1. Change FCC ID HLEPA768EBWNWU to HLE-PA768EBWNWU.

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2551267-605.

Therefore, in addition to the above differences, all test data and EUT information are derived from the report BL-SZ2551267-605 published by Shenzhen BALUN Technology Co., Ltd. on Jul. 23, 2025.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 67%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.8°C to +25.1°C
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2025.06.16	2026.06.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
				2025.06.16	2026.06.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2025.04.28	2026.04.27
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	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%

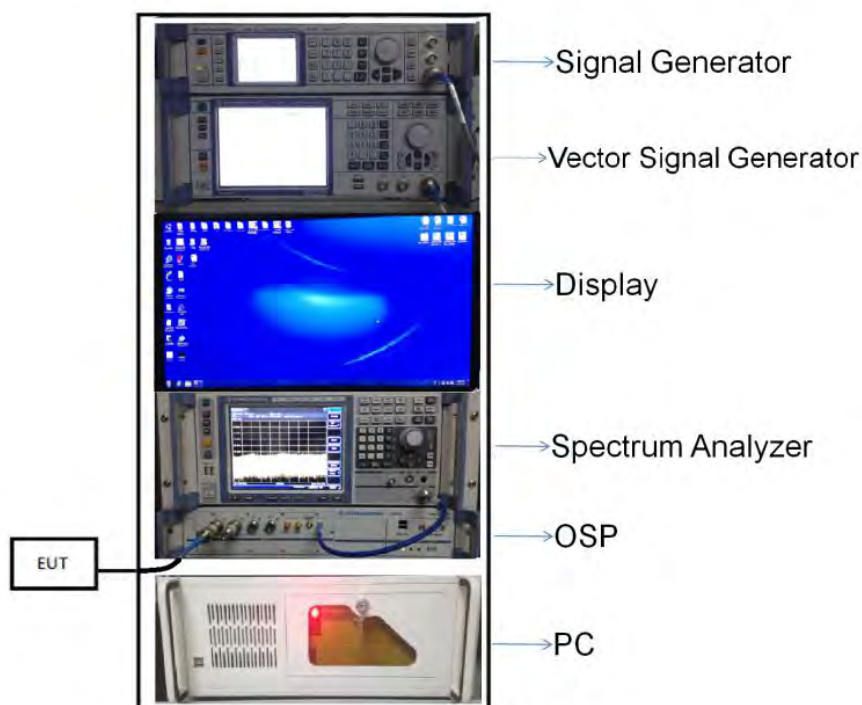
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

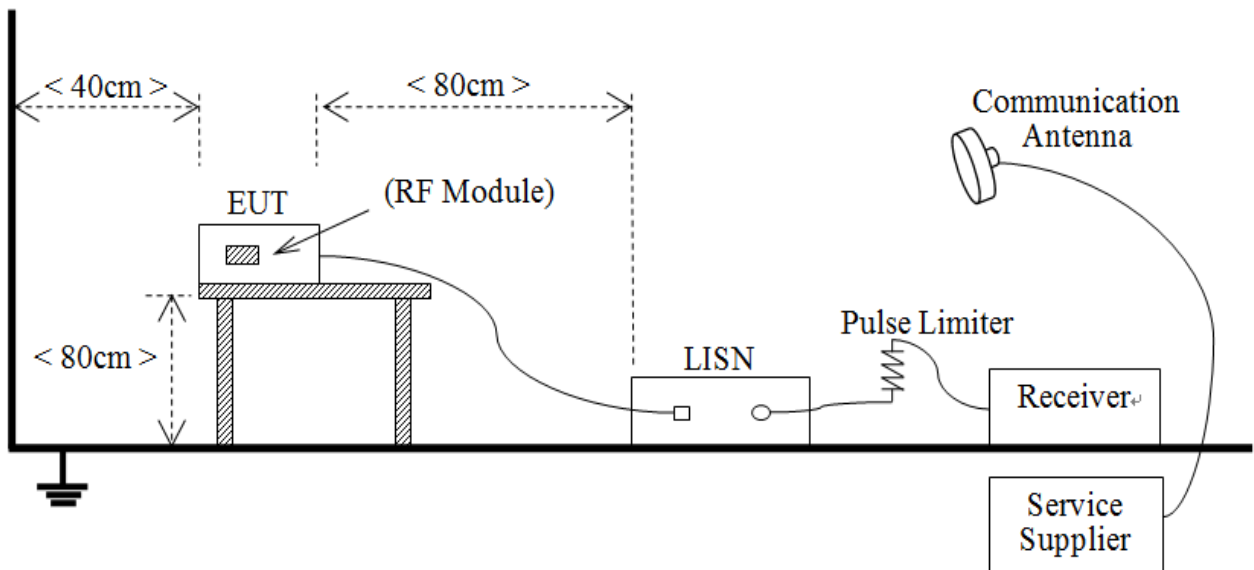
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



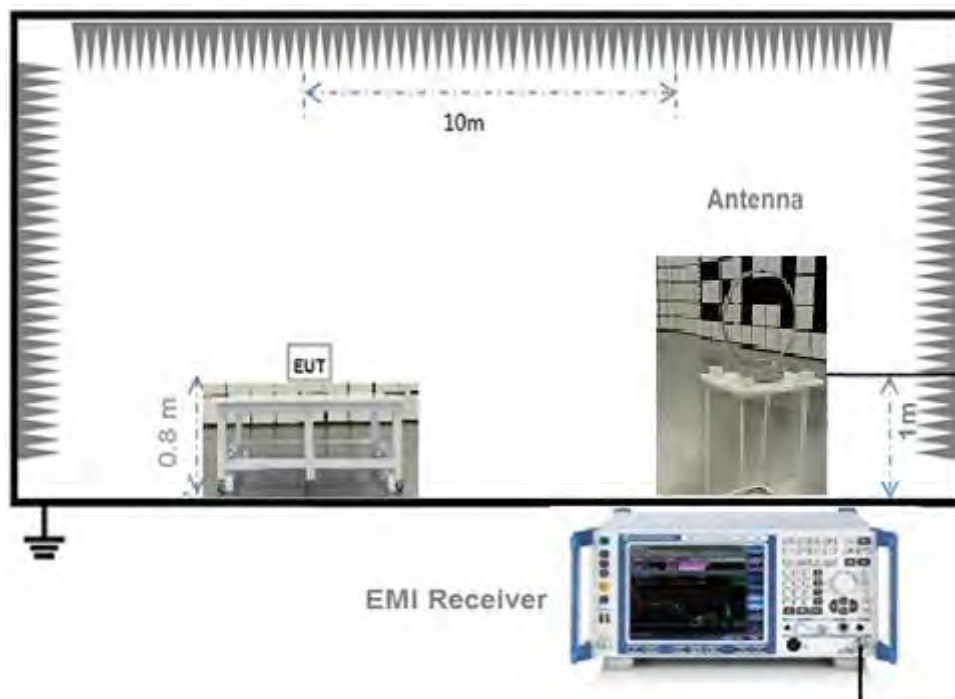
(Diagram 1)

4.5.2 For AC Power Supply Port Test



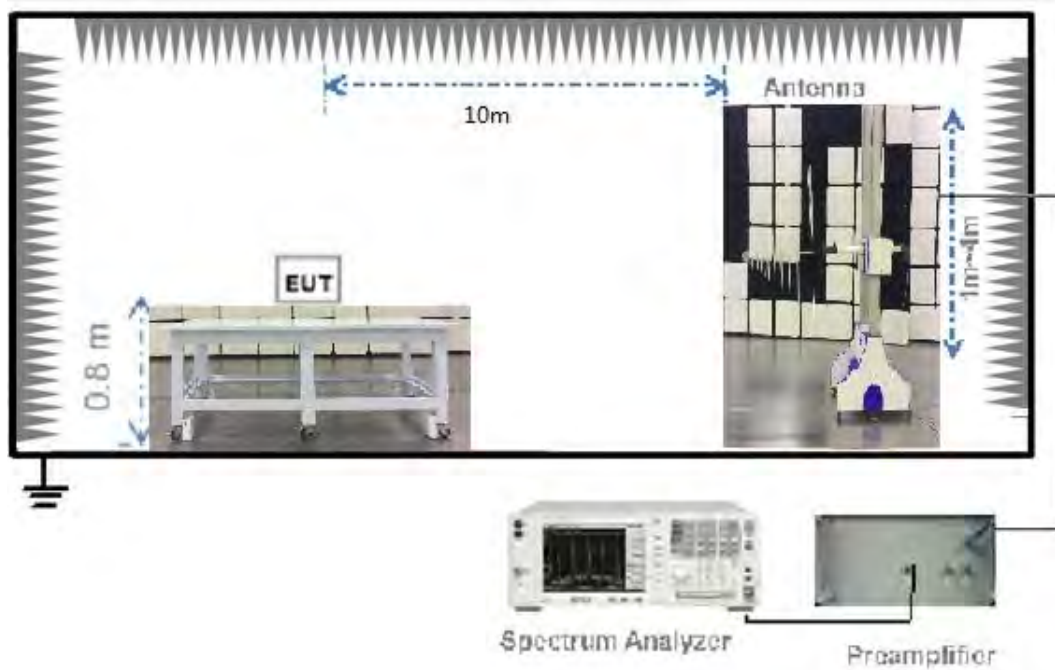
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



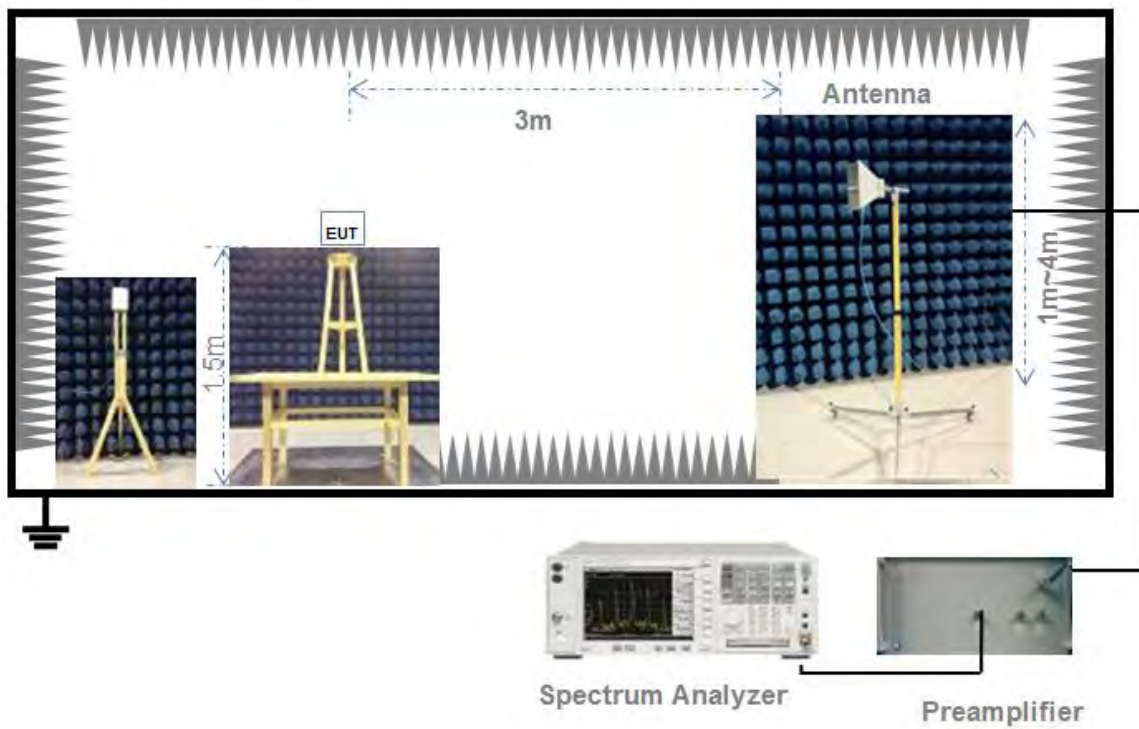
(Diagram 3)

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.	

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

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

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

Measurements of duty cycle

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

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

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

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

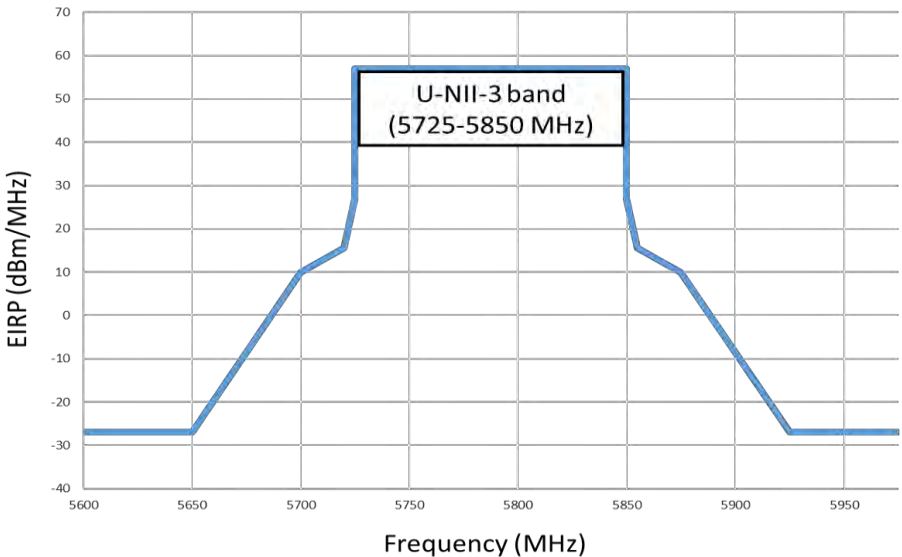
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

Note²: The tighter limit applies at the band edge.

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

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

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

g) Sweep time = auto.

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated

measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

Note ²: 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	1.42	1.53	93.38%	0.30
11n (HT20)/11ac (VHT20)	1.34	1.44	92.98%	0.32
11n (HT40)/11ac (VHT40)	0.67	0.77	86.52%	0.63
11ac (VHT80)	0.33	0.43	76.78%	1.15
11ax (HE20)(SU)	1.04	1.15	91.18%	0.40
11ax (HE40)(SU)	0.54	0.65	84.32%	0.74
11ax (HE80)(SU)	0.29	0.40	74.19%	1.30

Test DataSISO-Antenna 2Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.43	43.93	250	Pass
11a	CH44	16.44	44.03	250	Pass
11a	CH48	16.38	43.43	250	Pass
11n (HT20)	CH36	16.50	44.63	250	Pass
11n (HT20)	CH44	16.45	44.12	250	Pass
11n (HT20)	CH48	16.47	44.32	250	Pass
11n (HT40)	CH38	15.68	36.97	250	Pass
11n (HT40)	CH46	15.82	38.18	250	Pass
11ac (VHT20)	CH36	16.42	43.81	250	Pass
11ac (VHT20)	CH44	16.38	43.41	250	Pass
11ac (VHT20)	CH48	16.34	43.01	250	Pass
11ac (VHT40)	CH38	15.73	37.40	250	Pass
11ac (VHT40)	CH46	15.84	38.36	250	Pass
11ac (VHT80)	CH42	15.38	34.49	250	Pass
11ax (HE20)(SU)	CH36	16.29	42.57	250	Pass
11ax (HE20)(SU)	CH44	15.45	35.08	250	Pass
11ax (HE20)(SU)	CH48	15.53	35.74	250	Pass
11ax (HE40)(SU)	CH38	15.64	36.65	250	Pass
11ax (HE40)(SU)	CH46	15.71	37.25	250	Pass
11ax (HE80)(SU)	CH42	15.35	34.25	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	16.40	43.63	250	Pass
11a	CH60	16.05	40.25	250	Pass
11a	CH64	16.14	41.09	250	Pass
11n (HT20)	CH52	16.23	41.94	250	Pass
11n (HT20)	CH60	16.08	40.51	250	Pass
11n (HT20)	CH64	16.15	41.17	250	Pass
11n (HT40)	CH54	16.36	43.24	250	Pass
11n (HT40)	CH62	16.25	42.16	250	Pass
11ac (VHT20)	CH52	16.21	41.75	250	Pass
11ac (VHT20)	CH60	17.31	53.78	250	Pass
11ac (VHT20)	CH64	17.30	53.65	250	Pass
11ac (VHT40)	CH54	16.27	42.35	250	Pass
11ac (VHT40)	CH62	16.24	42.06	250	Pass
11ac (VHT80)	CH58	15.78	37.82	250	Pass
11ax (HE20)(SU)	CH52	16.02	40.00	232	Pass
11ax (HE20)(SU)	CH60	15.95	39.36	232	Pass
11ax (HE20)(SU)	CH64	15.95	39.36	232	Pass
11ax (HE40)(SU)	CH54	15.09	32.29	250	Pass
11ax (HE40)(SU)	CH62	15.09	32.29	250	Pass
11ax (HE80)(SU)	CH58	15.82	38.16	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	17.06	50.79	250	Pass
11a	CH116	16.92	49.18	250	Pass
11a	CH140	16.69	46.64	250	Pass
11n (HT20)	CH100	17.05	50.65	250	Pass
11n (HT20)	CH116	16.96	49.61	250	Pass
11n (HT20)	CH140	16.61	45.77	250	Pass
11n (HT40)	CH102	16.02	39.98	250	Pass
11n (HT40)	CH118	16.01	39.89	250	Pass
11n (HT40)	CH134	15.77	37.75	250	Pass
11ac (VHT20)	CH100	16.98	49.84	250	Pass
11ac (VHT20)	CH116	16.99	49.96	250	Pass
11ac (VHT20)	CH140	16.58	45.46	250	Pass
11ac (VHT40)	CH102	16.07	40.45	250	Pass
11ac (VHT40)	CH118	16.02	39.98	250	Pass
11ac (VHT40)	CH134	15.82	38.18	250	Pass
11ac (VHT80)	CH106	16.01	39.88	250	Pass
11ac (VHT80)	CH122	15.82	38.17	250	Pass
11ax (HE20)(SU)	CH100	15.93	39.18	250	Pass
11ax (HE20)(SU)	CH116	15.92	39.09	250	Pass
11ax (HE20)(SU)	CH140	15.58	36.15	250	Pass
11ax (HE40)(SU)	CH102	15.03	31.85	250	Pass
11ax (HE40)(SU)	CH118	15.04	31.92	250	Pass
11ax (HE40)(SU)	CH134	14.91	30.98	250	Pass
11ax (HE80)(SU)	CH106	16.05	40.24	250	Pass
11ax (HE80)(SU)	CH122	15.91	38.96	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.39	43.53	1000	Pass
11a	CH157	16.25	42.15	1000	Pass
11a	CH165	16.17	41.38	1000	Pass
11n (HT20)	CH149	16.41	43.71	1000	Pass
11n (HT20)	CH157	16.14	41.08	1000	Pass
11n (HT20)	CH165	16.12	40.89	1000	Pass
11n (HT40)	CH151	16.50	44.66	1000	Pass
11n (HT40)	CH159	16.36	43.24	1000	Pass
11ac (VHT20)	CH149	16.48	44.42	1000	Pass
11ac (VHT20)	CH157	16.23	41.94	1000	Pass
11ac (VHT20)	CH165	16.07	40.42	1000	Pass
11ac (VHT40)	CH151	16.53	44.97	1000	Pass
11ac (VHT40)	CH159	16.37	43.34	1000	Pass
11ac (VHT80)	CH155	15.16	32.79	1000	Pass
11ax (HE20)(SU)	CH149	15.62	36.48	1000	Pass
11ax (HE20)(SU)	CH157	15.47	35.25	1000	Pass
11ax (HE20)(SU)	CH165	15.28	33.74	1000	Pass
11ax (HE40)(SU)	CH151	15.47	35.24	1000	Pass
11ax (HE40)(SU)	CH159	15.20	33.12	1000	Pass
11ax (HE80)(SU)	CH155	15.38	34.49	1000	Pass

SISO-Antenna 3Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.66	46.32	250	Pass
11a	CH44	16.77	47.51	250	Pass
11a	CH48	16.61	45.79	250	Pass
11n (HT20)	CH36	16.71	46.84	250	Pass
11n (HT20)	CH44	16.60	45.67	250	Pass
11n (HT20)	CH48	16.55	45.14	250	Pass
11n (HT40)	CH38	15.80	38.01	250	Pass
11n (HT40)	CH46	16.20	41.68	250	Pass
11ac (VHT20)	CH36	16.95	49.50	250	Pass
11ac (VHT20)	CH44	16.73	47.05	250	Pass
11ac (VHT20)	CH48	16.58	45.46	250	Pass
11ac (VHT40)	CH38	15.71	37.23	250	Pass
11ac (VHT40)	CH46	15.84	38.36	250	Pass
11ac (VHT80)	CH42	15.70	37.13	250	Pass
11ax (HE20)(SU)	CH36	16.10	40.75	250	Pass
11ax (HE20)(SU)	CH44	15.56	35.98	250	Pass
11ax (HE20)(SU)	CH48	15.40	34.68	250	Pass
11ax (HE40)(SU)	CH38	15.50	35.49	250	Pass
11ax (HE40)(SU)	CH46	15.42	34.84	250	Pass
11ax (HE80)(SU)	CH42	15.30	33.86	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	16.72	46.96	250	Pass
11a	CH60	16.67	46.43	250	Pass
11a	CH64	16.81	47.95	250	Pass
11n (HT20)	CH52	16.68	46.52	250	Pass
11n (HT20)	CH60	16.61	45.77	250	Pass
11n (HT20)	CH64	16.93	49.27	250	Pass
11n (HT40)	CH54	15.68	36.97	250	Pass
11n (HT40)	CH62	15.69	37.06	250	Pass
11ac (VHT20)	CH52	16.89	48.82	250	Pass
11ac (VHT20)	CH60	16.79	47.71	250	Pass
11ac (VHT20)	CH64	16.81	47.93	250	Pass
11ac (VHT40)	CH54	15.66	36.80	250	Pass
11ac (VHT40)	CH62	15.65	36.72	250	Pass
11ac (VHT80)	CH58	16.75	47.29	250	Pass
11ax (HE20)(SU)	CH52	15.76	37.68	250	Pass
11ax (HE20)(SU)	CH60	15.34	34.21	250	Pass
11ax (HE20)(SU)	CH64	15.48	35.33	250	Pass
11ax (HE40)(SU)	CH54	15.36	34.36	250	Pass
11ax (HE40)(SU)	CH62	15.58	36.15	250	Pass
11ax (HE80)(SU)	CH58	15.63	36.53	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.84	48.28	250	Pass
11a	CH116	16.13	41.00	250	Pass
11a	CH140	16.03	40.06	250	Pass
11n (HT20)	CH100	15.95	39.32	250	Pass
11n (HT20)	CH116	15.96	39.41	250	Pass
11n (HT20)	CH140	15.97	39.50	250	Pass
11n (HT40)	CH102	15.94	39.25	250	Pass
11n (HT40)	CH118	15.59	36.21	250	Pass
11n (HT40)	CH134	15.88	38.71	250	Pass
11ac (VHT20)	CH100	16.14	41.08	250	Pass
11ac (VHT20)	CH116	15.99	39.68	250	Pass
11ac (VHT20)	CH140	16.03	40.05	250	Pass
11ac (VHT40)	CH102	15.91	38.98	250	Pass
11ac (VHT40)	CH118	16.22	41.87	250	Pass
11ac (VHT40)	CH134	16.47	44.35	250	Pass
11ac (VHT80)	CH106	16.02	39.97	250	Pass
11ac (VHT80)	CH122	15.96	39.42	250	Pass
11ax (HE20)(SU)	CH100	15.92	39.09	250	Pass
11ax (HE20)(SU)	CH116	15.77	37.77	250	Pass
11ax (HE20)(SU)	CH140	15.90	38.91	250	Pass
11ax (HE40)(SU)	CH102	15.46	35.16	250	Pass
11ax (HE40)(SU)	CH118	15.30	33.89	250	Pass
11ax (HE40)(SU)	CH134	15.59	36.23	250	Pass
11ax (HE80)(SU)	CH106	15.98	39.59	250	Pass
11ax (HE80)(SU)	CH122	15.93	39.14	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.56	45.26	1000	Pass
11a	CH157	16.48	44.44	1000	Pass
11a	CH165	16.70	46.75	1000	Pass
11n (HT20)	CH149	16.46	44.22	1000	Pass
11n (HT20)	CH157	16.37	43.31	1000	Pass
11n (HT20)	CH165	16.75	47.27	1000	Pass
11n (HT40)	CH151	16.53	44.97	1000	Pass
11n (HT40)	CH159	16.56	45.28	1000	Pass
11ac (VHT20)	CH149	16.50	44.63	1000	Pass
11ac (VHT20)	CH157	16.38	43.41	1000	Pass
11ac (VHT20)	CH165	16.76	47.38	1000	Pass
11ac (VHT40)	CH151	16.48	44.45	1000	Pass
11ac (VHT40)	CH159	16.56	45.28	1000	Pass
11ac (VHT80)	CH155	16.06	40.34	1000	Pass
11ax (HE20)(SU)	CH149	15.54	35.82	1000	Pass
11ax (HE20)(SU)	CH157	15.69	37.08	1000	Pass
11ax (HE20)(SU)	CH165	15.89	38.82	1000	Pass
11ax (HE40)(SU)	CH151	15.49	35.41	1000	Pass
11ax (HE40)(SU)	CH159	15.56	35.98	1000	Pass
11ax (HE80)(SU)	CH155	15.32	34.01	1000	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	13.37	21.72	250	Pass
11a	CH44	13.54	22.58	250	Pass
11a	CH48	13.39	21.82	250	Pass
11n (HT20)	CH36	13.42	21.96	250	Pass
11n (HT20)	CH44	13.45	22.11	250	Pass
11n (HT20)	CH48	13.25	21.12	250	Pass
11n (HT40)	CH38	12.54	17.94	250	Pass
11n (HT40)	CH46	12.99	19.90	250	Pass
11ac (VHT20)	CH36	13.77	23.80	250	Pass
11ac (VHT20)	CH44	13.61	22.94	250	Pass
11ac (VHT20)	CH48	13.29	21.31	250	Pass
11ac (VHT40)	CH38	12.56	18.03	250	Pass
11ac (VHT40)	CH46	12.59	18.15	250	Pass
11ac (VHT80)	CH42	12.45	17.57	250	Pass
11ax (HE20)(SU)	CH36	12.97	19.82	250	Pass
11ax (HE20)(SU)	CH44	12.43	17.50	250	Pass
11ax (HE20)(SU)	CH48	12.25	16.79	250	Pass
11ax (HE40)(SU)	CH38	12.38	17.30	250	Pass
11ax (HE40)(SU)	CH46	12.28	16.91	250	Pass
11ax (HE80)(SU)	CH42	12.00	15.84	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.51	22.43	250	Pass
11a	CH60	13.52	22.48	250	Pass
11a	CH64	13.58	22.79	250	Pass
11n (HT20)	CH52	13.52	22.47	250	Pass
11n (HT20)	CH60	13.38	21.76	250	Pass
11n (HT20)	CH64	13.64	23.10	250	Pass
11n (HT40)	CH54	12.41	17.41	250	Pass
11n (HT40)	CH62	12.54	17.94	250	Pass
11ac (VHT20)	CH52	13.61	22.94	250	Pass
11ac (VHT20)	CH60	13.53	22.52	250	Pass
11ac (VHT20)	CH64	13.64	23.10	250	Pass
11ac (VHT40)	CH54	12.41	17.41	250	Pass
11ac (VHT40)	CH62	12.52	17.86	250	Pass
11ac (VHT80)	CH58	13.63	23.05	250	Pass
11ax (HE20)(SU)	CH52	12.51	17.83	250	Pass
11ax (HE20)(SU)	CH60	12.13	16.33	250	Pass
11ax (HE20)(SU)	CH64	12.24	16.75	250	Pass
11ax (HE40)(SU)	CH54	12.20	16.60	250	Pass
11ax (HE40)(SU)	CH62	12.46	17.62	250	Pass
11ax (HE80)(SU)	CH58	12.36	17.20	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	17.06	50.79	250	Pass
11a	CH116	16.92	49.18	250	Pass
11a	CH140	16.69	46.64	250	Pass
11n (HT20)	CH100	17.05	50.65	250	Pass
11n (HT20)	CH116	16.96	49.61	250	Pass
11n (HT20)	CH140	16.61	45.77	250	Pass
11n (HT40)	CH102	16.02	39.98	250	Pass
11n (HT40)	CH118	16.01	39.89	250	Pass
11n (HT40)	CH134	15.77	37.75	250	Pass
11ac (VHT20)	CH100	16.98	49.84	250	Pass
11ac (VHT20)	CH116	16.99	49.96	250	Pass
11ac (VHT20)	CH140	16.58	45.46	250	Pass
11ac (VHT40)	CH102	16.07	40.45	250	Pass
11ac (VHT40)	CH118	16.02	39.98	250	Pass
11ac (VHT40)	CH134	15.82	38.18	250	Pass
11ac (VHT80)	CH106	16.01	39.88	250	Pass
11ac (VHT80)	CH122	15.82	38.17	250	Pass
11ax (HE20)(SU)	CH100	15.93	39.18	250	Pass
11ax (HE20)(SU)	CH116	15.92	39.09	250	Pass
11ax (HE20)(SU)	CH140	15.58	36.15	250	Pass
11ax (HE40)(SU)	CH102	15.03	31.85	250	Pass
11ax (HE40)(SU)	CH118	15.04	31.92	250	Pass
11ax (HE40)(SU)	CH134	14.91	30.98	250	Pass
11ax (HE80)(SU)	CH106	16.05	40.24	250	Pass
11ax (HE80)(SU)	CH122	15.91	38.96	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.45	22.12	1000	Pass
11a	CH157	13.20	20.88	1000	Pass
11a	CH165	13.42	21.97	1000	Pass
11n (HT20)	CH149	13.18	20.78	1000	Pass
11n (HT20)	CH157	13.20	20.87	1000	Pass
11n (HT20)	CH165	13.50	22.37	1000	Pass
11n (HT40)	CH151	13.35	21.62	1000	Pass
11n (HT40)	CH159	13.32	21.47	1000	Pass
11ac (VHT20)	CH149	13.35	21.61	1000	Pass
11ac (VHT20)	CH157	13.25	21.12	1000	Pass
11ac (VHT20)	CH165	13.54	22.57	1000	Pass
11ac (VHT40)	CH151	13.29	21.32	1000	Pass
11ac (VHT40)	CH159	13.37	21.72	1000	Pass
11ac (VHT80)	CH155	12.77	18.91	1000	Pass
11ax (HE20)(SU)	CH149	12.43	17.50	1000	Pass
11ax (HE20)(SU)	CH157	12.54	17.95	1000	Pass
11ax (HE20)(SU)	CH165	12.78	18.97	1000	Pass
11ax (HE40)(SU)	CH151	12.26	16.83	1000	Pass
11ax (HE40)(SU)	CH159	12.31	17.02	1000	Pass
11ax (HE80)(SU)	CH155	12.06	16.06	1000	Pass

MIMO-Antenna 3Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.29	21.32	250	Pass
11a	CH44	13.15	20.64	250	Pass
11a	CH48	13.15	20.64	250	Pass
11n (HT20)	CH36	13.32	21.46	250	Pass
11n (HT20)	CH44	13.21	20.92	250	Pass
11n (HT20)	CH48	13.35	21.61	250	Pass
11n (HT40)	CH38	12.42	17.45	250	Pass
11n (HT40)	CH46	12.64	18.36	250	Pass
11ac (VHT20)	CH36	13.25	21.12	250	Pass
11ac (VHT20)	CH44	13.23	21.02	250	Pass
11ac (VHT20)	CH48	13.07	20.26	250	Pass
11ac (VHT40)	CH38	12.61	18.23	250	Pass
11ac (VHT40)	CH46	12.64	18.36	250	Pass
11ac (VHT80)	CH42	12.14	16.36	250	Pass
11ax (HE20)(SU)	CH36	13.09	20.38	250	Pass
11ax (HE20)(SU)	CH44	12.29	16.95	250	Pass
11ax (HE20)(SU)	CH48	12.41	17.42	250	Pass
11ax (HE40)(SU)	CH38	12.46	17.62	250	Pass
11ax (HE40)(SU)	CH46	12.59	18.16	250	Pass
11ax (HE80)(SU)	CH42	12.14	16.35	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.10	20.41	250	Pass
11a	CH60	12.77	18.91	250	Pass
11a	CH64	12.86	19.31	250	Pass
11n (HT20)	CH52	13.06	20.21	250	Pass
11n (HT20)	CH60	12.82	19.13	250	Pass
11n (HT20)	CH64	12.97	19.80	250	Pass
11n (HT40)	CH54	13.10	20.41	250	Pass
11n (HT40)	CH62	12.98	19.86	250	Pass
11ac (VHT20)	CH52	12.96	19.75	250	Pass
11ac (VHT20)	CH60	14.12	25.80	250	Pass
11ac (VHT20)	CH64	14.10	25.68	250	Pass
11ac (VHT40)	CH54	13.17	20.74	250	Pass
11ac (VHT40)	CH62	13.09	20.36	250	Pass
11ac (VHT80)	CH58	12.49	17.73	250	Pass
11ax (HE20)(SU)	CH52	12.88	19.41	250	Pass
11ax (HE20)(SU)	CH60	12.70	18.63	250	Pass
11ax (HE20)(SU)	CH64	12.83	19.19	250	Pass
11ax (HE40)(SU)	CH54	11.91	15.53	250	Pass
11ax (HE40)(SU)	CH62	11.81	15.17	250	Pass
11ax (HE80)(SU)	CH58	12.63	18.31	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	13.70	23.43	250	Pass
11a	CH116	12.89	19.44	250	Pass
11a	CH140	12.78	18.96	250	Pass
11n (HT20)	CH100	12.79	18.99	250	Pass
11n (HT20)	CH116	12.76	18.86	250	Pass
11n (HT20)	CH140	12.84	19.21	250	Pass
11n (HT40)	CH102	12.82	19.14	250	Pass
11n (HT40)	CH118	12.37	17.25	250	Pass
11n (HT40)	CH134	12.69	18.57	250	Pass
11ac (VHT20)	CH100	13.00	19.93	250	Pass
11ac (VHT20)	CH116	12.74	18.78	250	Pass
11ac (VHT20)	CH140	12.79	18.99	250	Pass
11ac (VHT40)	CH102	12.74	18.79	250	Pass
11ac (VHT40)	CH118	12.95	19.72	250	Pass
11ac (VHT40)	CH134	13.33	21.52	250	Pass
11ac (VHT80)	CH106	12.89	19.44	250	Pass
11ac (VHT80)	CH122	12.78	18.96	250	Pass
11ax (HE20)(SU)	CH100	12.82	19.15	250	Pass
11ax (HE20)(SU)	CH116	12.63	18.33	250	Pass
11ax (HE20)(SU)	CH140	12.63	18.33	250	Pass
11ax (HE40)(SU)	CH102	12.28	16.91	250	Pass
11ax (HE40)(SU)	CH118	12.06	16.07	250	Pass
11ax (HE40)(SU)	CH134	12.41	17.42	250	Pass
11ax (HE80)(SU)	CH106	12.86	19.30	250	Pass
11ax (HE80)(SU)	CH122	12.71	18.65	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.17	20.74	1000	Pass
11a	CH157	13.12	20.50	1000	Pass
11a	CH165	12.94	19.67	1000	Pass
11n (HT20)	CH149	13.28	21.26	1000	Pass
11n (HT20)	CH157	12.99	19.89	1000	Pass
11n (HT20)	CH165	12.83	19.17	1000	Pass
11n (HT40)	CH151	13.35	21.62	1000	Pass
11n (HT40)	CH159	13.16	20.70	1000	Pass
11ac (VHT20)	CH149	13.36	21.66	1000	Pass
11ac (VHT20)	CH157	13.06	20.21	1000	Pass
11ac (VHT20)	CH165	12.83	19.17	1000	Pass
11ac (VHT40)	CH151	13.25	21.13	1000	Pass
11ac (VHT40)	CH159	13.15	20.65	1000	Pass
11ac (VHT80)	CH155	11.91	15.51	1000	Pass
11ax (HE20)(SU)	CH149	12.44	17.54	1000	Pass
11ax (HE20)(SU)	CH157	12.23	16.71	1000	Pass
11ax (HE20)(SU)	CH165	12.03	15.96	1000	Pass
11ax (HE40)(SU)	CH151	12.25	16.79	1000	Pass
11ax (HE40)(SU)	CH159	11.95	15.67	1000	Pass
11ax (HE80)(SU)	CH155	12.11	16.24	1000	Pass

MIMOConducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.34	43.03	250	Pass
11a	CH44	16.36	43.22	250	Pass
11a	CH48	16.28	42.46	250	Pass
11n (HT20)	CH36	16.38	43.42	250	Pass
11n (HT20)	CH44	16.34	43.03	250	Pass
11n (HT20)	CH48	16.31	42.72	250	Pass
11n (HT40)	CH38	15.49	35.40	250	Pass
11n (HT40)	CH46	15.83	38.26	250	Pass
11ac (VHT20)	CH36	16.52	44.92	250	Pass
11ac (VHT20)	CH44	16.43	43.96	250	Pass
11ac (VHT20)	CH48	16.19	41.57	250	Pass
11ac (VHT40)	CH38	15.59	36.26	250	Pass
11ac (VHT40)	CH46	15.62	36.51	250	Pass
11ac (VHT80)	CH42	15.31	33.93	250	Pass
11ax (HE20)(SU)	CH36	16.04	40.20	250	Pass
11ax (HE20)(SU)	CH44	15.37	34.45	250	Pass
11ax (HE20)(SU)	CH48	15.34	34.21	250	Pass
11ax (HE40)(SU)	CH38	15.43	34.92	250	Pass
11ax (HE40)(SU)	CH46	15.45	35.07	250	Pass
11ax (HE80)(SU)	CH42	15.08	32.19	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	16.32	42.83	250	Pass
11a	CH60	16.17	41.39	250	Pass
11a	CH64	16.24	42.10	250	Pass
11n (HT20)	CH52	16.30	42.68	250	Pass
11n (HT20)	CH60	16.12	40.88	250	Pass
11n (HT20)	CH64	16.32	42.90	250	Pass
11n (HT40)	CH54	15.78	37.82	250	Pass
11n (HT40)	CH62	15.77	37.80	250	Pass
11ac (VHT20)	CH52	16.30	42.69	250	Pass
11ac (VHT20)	CH60	16.84	48.32	250	Pass
11ac (VHT20)	CH64	16.88	48.78	250	Pass
11ac (VHT40)	CH54	15.82	38.16	250	Pass
11ac (VHT40)	CH62	15.82	38.22	250	Pass
11ac (VHT80)	CH58	16.10	40.78	250	Pass
11ax (HE20)(SU)	CH52	15.71	37.24	250	Pass
11ax (HE20)(SU)	CH60	15.44	34.96	250	Pass
11ax (HE20)(SU)	CH64	15.56	35.94	250	Pass
11ax (HE40)(SU)	CH54	15.07	32.13	250	Pass
11ax (HE40)(SU)	CH62	15.16	32.80	250	Pass
11ax (HE80)(SU)	CH58	15.50	35.51	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	18.71	74.22	250	Pass
11a	CH116	18.36	68.62	250	Pass
11a	CH140	18.17	65.60	250	Pass
11n (HT20)	CH100	18.43	69.65	250	Pass
11n (HT20)	CH116	18.36	68.48	250	Pass
11n (HT20)	CH140	18.13	64.99	250	Pass
11n (HT40)	CH102	17.72	59.12	250	Pass
11n (HT40)	CH118	17.57	57.14	250	Pass
11n (HT40)	CH134	17.51	56.32	250	Pass
11ac (VHT20)	CH100	18.44	69.78	250	Pass
11ac (VHT20)	CH116	18.37	68.73	250	Pass
11ac (VHT20)	CH140	18.09	64.45	250	Pass
11ac (VHT40)	CH102	17.73	59.23	250	Pass
11ac (VHT40)	CH118	17.76	59.70	250	Pass
11ac (VHT40)	CH134	17.76	59.71	250	Pass
11ac (VHT80)	CH106	17.73	59.32	250	Pass
11ac (VHT80)	CH122	17.57	57.13	250	Pass
11ax (HE20)(SU)	CH100	17.66	58.33	250	Pass
11ax (HE20)(SU)	CH116	17.59	57.42	250	Pass
11ax (HE20)(SU)	CH140	17.36	54.48	250	Pass
11ax (HE40)(SU)	CH102	16.88	48.75	250	Pass
11ax (HE40)(SU)	CH118	16.81	47.99	250	Pass
11ax (HE40)(SU)	CH134	16.85	48.40	250	Pass
11ax (HE80)(SU)	CH106	17.75	59.54	250	Pass
11ax (HE80)(SU)	CH122	17.60	57.61	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.32	42.86	1000	Pass
11a	CH157	16.17	41.38	1000	Pass
11a	CH165	16.19	41.63	1000	Pass
11n (HT20)	CH149	16.24	42.04	1000	Pass
11n (HT20)	CH157	16.10	40.76	1000	Pass
11n (HT20)	CH165	16.18	41.54	1000	Pass
11n (HT40)	CH151	16.36	43.24	1000	Pass
11n (HT40)	CH159	16.25	42.17	1000	Pass
11ac (VHT20)	CH149	16.36	43.26	1000	Pass
11ac (VHT20)	CH157	16.16	41.33	1000	Pass
11ac (VHT20)	CH165	16.21	41.74	1000	Pass
11ac (VHT40)	CH151	16.28	42.45	1000	Pass
11ac (VHT40)	CH159	16.27	42.37	1000	Pass
11ac (VHT80)	CH155	15.37	34.43	1000	Pass
11ax (HE20)(SU)	CH149	15.45	35.05	1000	Pass
11ax (HE20)(SU)	CH157	15.40	34.67	1000	Pass
11ax (HE20)(SU)	CH165	15.43	34.93	1000	Pass
11ax (HE40)(SU)	CH151	15.27	33.62	1000	Pass
11ax (HE40)(SU)	CH159	15.14	32.69	1000	Pass
11ax (HE80)(SU)	CH155	15.09	32.30	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ2580053-605 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 2

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.76	16.57
11a	CH44	20.73	16.56
11a	CH48	20.77	16.57
11n(HT20)	CH36	21.24	17.76
11n(HT20)	CH44	21.30	17.70
11n(HT20)	CH48	21.25	17.69
11n(HT40)	CH38	40.38	36.27
11n(HT40)	CH46	40.34	36.25
11ac(VHT20)	CH36	21.19	17.69
11ac(VHT20)	CH44	21.25	17.69
11ac(VHT20)	CH48	21.14	17.67
11ac(VHT40)	CH38	40.40	36.27
11ac(VHT40)	CH46	40.04	36.26
11ac(VHT80)	CH42	81.56	75.69
11ax(HE20)(SU)	CH36	21.44	19.07
11ax(HE20)(SU)	CH44	21.42	19.04
11ax(HE20)(SU)	CH48	21.59	19.02
11ax(HE40)(SU)	CH38	40.14	37.51
11ax(HE40)(SU)	CH46	40.18	37.54
11ax(HE80)(SU)	CH42	81.17	77.06

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.81	16.56
11a	CH60	20.69	16.54
11a	CH64	20.75	16.59
11n(HT20)	CH52	21.17	17.74
11n(HT20)	CH60	21.21	17.68
11n(HT20)	CH64	21.27	17.72
11n(HT40)	CH54	40.54	36.24
11n(HT40)	CH62	40.26	36.28
11ac(VHT20)	CH52	21.19	17.71
11ac(VHT20)	CH60	21.23	17.75
11ac(VHT20)	CH64	21.26	17.75
11ac(VHT40)	CH54	40.32	36.23
11ac(VHT40)	CH62	40.25	36.27
11ac(VHT80)	CH58	81.56	75.76
11ax(HE20)(SU)	CH52	21.45	19.03
11ax(HE20)(SU)	CH60	21.49	19.02
11ax(HE20)(SU)	CH64	21.64	19.02
11ax(HE40)(SU)	CH54	40.10	37.53
11ax(HE40)(SU)	CH62	40.17	37.59
11ax(HE80)(SU)	CH58	81.43	77.06

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.81	16.56
11a	CH116	20.81	16.58
11a	CH140	20.79	16.57
11n(HT20)	CH100	21.17	17.70
11n(HT20)	CH116	21.17	17.71
11n(HT20)	CH140	21.19	17.70
11n(HT40)	CH102	40.50	36.27
11n(HT40)	CH118	40.68	36.29
11n(HT40)	CH134	40.37	36.28
11ac(VHT20)	CH100	21.12	17.69
11ac(VHT20)	CH116	21.11	17.70
11ac(VHT20)	CH140	21.24	17.72
11ac(VHT40)	CH102	40.39	36.30
11ac(VHT40)	CH118	40.21	36.29
11ac(VHT40)	CH134	40.61	36.27
11ac(VHT80)	CH106	82.20	75.77
11ac(VHT80)	CH122	82.28	75.82
11ax(HE20)(SU)	CH100	21.56	19.02
11ax(HE20)(SU)	CH116	21.43	19.04
11ax(HE20)(SU)	CH140	21.46	19.03
11ax(HE40)(SU)	CH102	39.98	37.60
11ax(HE40)(SU)	CH118	40.25	37.62
11ax(HE40)(SU)	CH134	39.97	37.55
11ax(HE80)(SU)	CH106	81.08	77.06
11ax(HE80)(SU)	CH122	81.88	77.02

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.74	16.56
11a	CH157	20.69	16.58
11a	CH165	20.81	16.61
11n(HT20)	CH149	21.25	17.70
11n(HT20)	CH157	21.09	17.69
11n(HT20)	CH165	21.12	17.72
11n(HT40)	CH151	40.64	36.32
11n(HT40)	CH159	40.17	36.19
11ac(VHT20)	CH149	21.18	17.72
11ac(VHT20)	CH157	21.19	17.69
11ac(VHT20)	CH165	21.08	17.69
11ac(VHT40)	CH151	40.54	36.28
11ac(VHT40)	CH159	40.29	36.19
11ac(VHT80)	CH155	81.88	75.81
11ax(HE20)(SU)	CH149	21.52	19.00
11ax(HE20)(SU)	CH157	21.45	19.05
11ax(HE20)(SU)	CH165	21.33	19.01
11ax(HE40)(SU)	CH151	39.96	37.59
11ax(HE40)(SU)	CH159	39.78	37.49
11ax(HE80)(SU)	CH155	81.52	77.13

A.3 6 dB Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ2580053-605 Data Part 2.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

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U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.25	500.00	Pass
11a	CH157	15.25	500.00	Pass
11a	CH165	15.20	500.00	Pass
11n(HT20)	CH149	15.30	500.00	Pass
11n(HT20)	CH157	15.15	500.00	Pass
11n(HT20)	CH165	15.30	500.00	Pass
11n(HT40)	CH151	35.45	500.00	Pass
11n(HT40)	CH159	35.30	500.00	Pass
11ac(VHT20)	CH149	15.25	500.00	Pass
11ac(VHT20)	CH157	15.30	500.00	Pass
11ac(VHT20)	CH165	13.90	500.00	Pass
11ac(VHT40)	CH151	35.70	500.00	Pass
11ac(VHT40)	CH159	35.55	500.00	Pass
11ac(VHT80)	CH155	75.30	500.00	Pass
11ax(HE20)(SU)	CH149	18.95	500.00	Pass
11ax(HE20)(SU)	CH157	18.95	500.00	Pass
11ax(HE20)(SU)	CH165	18.65	500.00	Pass
11ax(HE40)(SU)	CH151	37.30	500.00	Pass
11ax(HE40)(SU)	CH159	35.90	500.00	Pass
11ax(HE80)(SU)	CH155	76.10	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2580053-605 Data Part 3.pdf”.

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

Test Data

SISO-Antenna 2

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	6.03	11.00	Pass
11a	CH44	6.12	11.00	Pass
11a	CH48	6.04	11.00	Pass
11n (HT20)	CH36	5.82	11.00	Pass
11n (HT20)	CH44	5.83	11.00	Pass
11n (HT20)	CH48	5.83	11.00	Pass
11n (HT40)	CH38	1.71	11.00	Pass
11n (HT40)	CH46	2.05	11.00	Pass
11ac (VHT20)	CH36	5.34	11.00	Pass
11ac (VHT20)	CH44	5.88	11.00	Pass
11ac (VHT20)	CH48	5.81	11.00	Pass
11ac (VHT40)	CH38	1.53	11.00	Pass
11ac (VHT40)	CH46	1.87	11.00	Pass
11ac (VHT80)	CH42	-2.02	11.00	Pass
11ax (HE20)(SU)	CH36	4.45	11.00	Pass
11ax (HE20)(SU)	CH44	4.07	11.00	Pass
11ax (HE20)(SU)	CH48	3.86	11.00	Pass
11ax (HE40)(SU)	CH38	1.17	11.00	Pass
11ax (HE40)(SU)	CH46	1.35	11.00	Pass
11ax (HE80)(SU)	CH42	-2.24	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	6.15	11.00	Pass
11a	CH60	6.16	11.00	Pass
11a	CH64	6.43	11.00	Pass
11n (HT20)	CH52	5.95	11.00	Pass
11n (HT20)	CH60	5.91	11.00	Pass
11n (HT20)	CH64	6.17	11.00	Pass
11n (HT40)	CH54	1.56	11.00	Pass
11n (HT40)	CH62	1.57	11.00	Pass
11ac (VHT20)	CH52	6.13	11.00	Pass
11ac (VHT20)	CH60	6.07	11.00	Pass
11ac (VHT20)	CH64	6.12	11.00	Pass
11ac (VHT40)	CH54	1.52	11.00	Pass
11ac (VHT40)	CH62	1.69	11.00	Pass
11ac (VHT80)	CH58	-0.65	11.00	Pass
11ax (HE20)(SU)	CH52	4.26	11.00	Pass
11ax (HE20)(SU)	CH60	3.90	11.00	Pass
11ax (HE20)(SU)	CH64	4.10	11.00	Pass
11ax (HE40)(SU)	CH54	1.16	11.00	Pass
11ax (HE40)(SU)	CH62	1.27	11.00	Pass
11ax (HE80)(SU)	CH58	-1.95	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	6.27	11.00	Pass
11a	CH116	5.49	11.00	Pass
11a	CH140	5.46	11.00	Pass
11n (HT20)	CH100	5.17	11.00	Pass
11n (HT20)	CH116	5.13	11.00	Pass
11n (HT20)	CH140	5.20	11.00	Pass
11n (HT40)	CH102	1.75	11.00	Pass
11n (HT40)	CH118	1.51	11.00	Pass
11n (HT40)	CH134	1.72	11.00	Pass
11ac (VHT20)	CH100	5.34	11.00	Pass
11ac (VHT20)	CH116	5.26	11.00	Pass
11ac (VHT20)	CH140	5.14	11.00	Pass
11ac (VHT40)	CH102	1.96	11.00	Pass
11ac (VHT40)	CH118	2.03	11.00	Pass
11ac (VHT40)	CH134	2.37	11.00	Pass
11ac (VHT80)	CH106	-1.57	11.00	Pass
11ac (VHT80)	CH122	-1.62	11.00	Pass
11ax (HE20)(SU)	CH100	4.98	11.00	Pass
11ax (HE20)(SU)	CH116	4.76	11.00	Pass
11ax (HE20)(SU)	CH140	4.89	11.00	Pass
11ax (HE40)(SU)	CH102	1.16	11.00	Pass
11ax (HE40)(SU)	CH118	0.96	11.00	Pass
11ax (HE40)(SU)	CH134	1.12	11.00	Pass
11ax (HE80)(SU)	CH106	-1.51	11.00	Pass
11ax (HE80)(SU)	CH122	-1.63	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	2.96	30.00	Pass
11a	CH157	3.06	30.00	Pass
11a	CH165	3.53	30.00	Pass
11n (HT20)	CH149	2.91	30.00	Pass
11n (HT20)	CH157	2.79	30.00	Pass
11n (HT20)	CH165	3.19	30.00	Pass
11n (HT40)	CH151	-0.49	30.00	Pass
11n (HT40)	CH159	-0.38	30.00	Pass
11ac (VHT20)	CH149	2.81	30.00	Pass
11ac (VHT20)	CH157	2.92	30.00	Pass
11ac (VHT20)	CH165	3.18	30.00	Pass
11ac (VHT40)	CH151	-0.27	30.00	Pass
11ac (VHT40)	CH159	-0.20	30.00	Pass
11ac (VHT80)	CH155	-4.45	30.00	Pass
11ax (HE20)(SU)	CH149	1.92	30.00	Pass
11ax (HE20)(SU)	CH157	2.14	30.00	Pass
11ax (HE20)(SU)	CH165	2.20	30.00	Pass
11ax (HE40)(SU)	CH151	-1.45	30.00	Pass
11ax (HE40)(SU)	CH159	-1.01	30.00	Pass
11ax (HE80)(SU)	CH155	-5.27	30.00	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	5.74	11.00	Pass
11a	CH44	5.80	11.00	Pass
11a	CH48	5.72	11.00	Pass
11n (HT20)	CH36	5.55	11.00	Pass
11n (HT20)	CH44	5.62	11.00	Pass
11n (HT20)	CH48	5.54	11.00	Pass
11n (HT40)	CH38	1.48	11.00	Pass
11n (HT40)	CH46	1.80	11.00	Pass
11ac (VHT20)	CH36	5.46	11.00	Pass
11ac (VHT20)	CH44	5.53	11.00	Pass
11ac (VHT20)	CH48	5.52	11.00	Pass
11ac (VHT40)	CH38	1.51	11.00	Pass
11ac (VHT40)	CH46	1.65	11.00	Pass
11ac (VHT80)	CH42	-2.17	11.00	Pass
11ax (HE20)(SU)	CH36	4.76	11.00	Pass
11ax (HE20)(SU)	CH44	3.98	11.00	Pass
11ax (HE20)(SU)	CH48	3.91	11.00	Pass
11ax (HE40)(SU)	CH38	1.52	11.00	Pass
11ax (HE40)(SU)	CH46	1.34	11.00	Pass
11ax (HE80)(SU)	CH42	-2.29	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	5.66	11.00	Pass
11a	CH60	5.31	11.00	Pass
11a	CH64	5.51	11.00	Pass
11n (HT20)	CH52	5.27	11.00	Pass
11n (HT20)	CH60	5.13	11.00	Pass
11n (HT20)	CH64	5.30	11.00	Pass
11n (HT40)	CH54	2.20	11.00	Pass
11n (HT40)	CH62	1.99	11.00	Pass
11ac (VHT20)	CH52	5.22	11.00	Pass
11ac (VHT20)	CH60	6.48	11.00	Pass
11ac (VHT20)	CH64	6.44	11.00	Pass
11ac (VHT40)	CH54	2.14	11.00	Pass
11ac (VHT40)	CH62	2.24	11.00	Pass
11ac (VHT80)	CH58	-1.81	11.00	Pass
11ax (HE20)(SU)	CH52	4.34	11.00	Pass
11ax (HE20)(SU)	CH60	4.50	11.00	Pass
11ax (HE20)(SU)	CH64	4.46	11.00	Pass
11ax (HE40)(SU)	CH54	0.74	11.00	Pass
11ax (HE40)(SU)	CH62	0.71	11.00	Pass
11ax (HE80)(SU)	CH58	-1.97	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	6.40	11.00	Pass
11a	CH116	6.32	11.00	Pass
11a	CH140	5.90	11.00	Pass
11n (HT20)	CH100	6.23	11.00	Pass
11n (HT20)	CH116	6.10	11.00	Pass
11n (HT20)	CH140	5.63	11.00	Pass
11n (HT40)	CH102	2.01	11.00	Pass
11n (HT40)	CH118	1.86	11.00	Pass
11n (HT40)	CH134	1.58	11.00	Pass
11ac (VHT20)	CH100	6.05	11.00	Pass
11ac (VHT20)	CH116	6.21	11.00	Pass
11ac (VHT20)	CH140	5.55	11.00	Pass
11ac (VHT40)	CH102	1.83	11.00	Pass
11ac (VHT40)	CH118	1.92	11.00	Pass
11ac (VHT40)	CH134	1.59	11.00	Pass
11ac (VHT80)	CH106	-1.63	11.00	Pass
11ac (VHT80)	CH122	-1.76	11.00	Pass
11ax (HE20)(SU)	CH100	4.35	11.00	Pass
11ax (HE20)(SU)	CH116	4.26	11.00	Pass
11ax (HE20)(SU)	CH140	3.95	11.00	Pass
11ax (HE40)(SU)	CH102	0.65	11.00	Pass
11ax (HE40)(SU)	CH118	0.97	11.00	Pass
11ax (HE40)(SU)	CH134	0.58	11.00	Pass
11ax (HE80)(SU)	CH106	-1.81	11.00	Pass
11ax (HE80)(SU)	CH122	-1.85	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	2.72	30.00	Pass
11a	CH157	2.74	30.00	Pass
11a	CH165	2.92	30.00	Pass
11n (HT20)	CH149	2.55	30.00	Pass
11n (HT20)	CH157	2.37	30.00	Pass
11n (HT20)	CH165	2.62	30.00	Pass
11n (HT40)	CH151	-0.68	30.00	Pass
11n (HT40)	CH159	-0.49	30.00	Pass
11ac (VHT20)	CH149	2.55	30.00	Pass
11ac (VHT20)	CH157	2.58	30.00	Pass
11ac (VHT20)	CH165	2.54	30.00	Pass
11ac (VHT40)	CH151	-0.59	30.00	Pass
11ac (VHT40)	CH159	-0.56	30.00	Pass
11ac (VHT80)	CH155	-5.47	30.00	Pass
11ax (HE20)(SU)	CH149	1.64	30.00	Pass
11ax (HE20)(SU)	CH157	1.53	30.00	Pass
11ax (HE20)(SU)	CH165	1.35	30.00	Pass
11ax (HE40)(SU)	CH151	-1.77	30.00	Pass
11ax (HE40)(SU)	CH159	-1.67	30.00	Pass
11ax (HE80)(SU)	CH155	-5.08	30.00	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	2.81	11.00	Pass
11a	CH44	3.01	11.00	Pass
11a	CH48	2.90	11.00	Pass
11n (HT20)	CH36	2.53	11.00	Pass
11n (HT20)	CH44	2.70	11.00	Pass
11n (HT20)	CH48	2.72	11.00	Pass
11n (HT40)	CH38	-1.44	11.00	Pass
11n (HT40)	CH46	-1.20	11.00	Pass
11ac (VHT20)	CH36	2.13	11.00	Pass
11ac (VHT20)	CH44	2.76	11.00	Pass
11ac (VHT20)	CH48	2.58	11.00	Pass
11ac (VHT40)	CH38	-1.68	11.00	Pass
11ac (VHT40)	CH46	-1.39	11.00	Pass
11ac (VHT80)	CH42	-5.12	11.00	Pass
11ax (HE20)(SU)	CH36	1.16	11.00	Pass
11ax (HE20)(SU)	CH44	0.89	11.00	Pass
11ax (HE20)(SU)	CH48	0.58	11.00	Pass
11ax (HE40)(SU)	CH38	-2.11	11.00	Pass
11ax (HE40)(SU)	CH46	-1.87	11.00	Pass
11ax (HE80)(SU)	CH42	-5.40	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	2.90	11.00	Pass
11a	CH60	3.03	11.00	Pass
11a	CH64	3.14	11.00	Pass
11n (HT20)	CH52	2.66	11.00	Pass
11n (HT20)	CH60	2.72	11.00	Pass
11n (HT20)	CH64	2.88	11.00	Pass
11n (HT40)	CH54	-1.69	11.00	Pass
11n (HT40)	CH62	-1.57	11.00	Pass
11ac (VHT20)	CH52	2.94	11.00	Pass
11ac (VHT20)	CH60	2.88	11.00	Pass
11ac (VHT20)	CH64	3.01	11.00	Pass
11ac (VHT40)	CH54	-1.64	11.00	Pass
11ac (VHT40)	CH62	-1.51	11.00	Pass
11ac (VHT80)	CH58	-3.89	11.00	Pass
11ax (HE20)(SU)	CH52	1.02	11.00	Pass
11ax (HE20)(SU)	CH60	0.79	11.00	Pass
11ax (HE20)(SU)	CH64	0.97	11.00	Pass
11ax (HE40)(SU)	CH54	-1.95	11.00	Pass
11ax (HE40)(SU)	CH62	-2.03	11.00	Pass
11ax (HE80)(SU)	CH58	-5.20	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	2.99	11.00	Pass
11a	CH116	2.34	11.00	Pass
11a	CH140	2.31	11.00	Pass
11n (HT20)	CH100	1.94	11.00	Pass
11n (HT20)	CH116	1.96	11.00	Pass
11n (HT20)	CH140	2.04	11.00	Pass
11n (HT40)	CH102	-1.39	11.00	Pass
11n (HT40)	CH118	-1.72	11.00	Pass
11n (HT40)	CH134	-1.50	11.00	Pass
11ac (VHT20)	CH100	2.12	11.00	Pass
11ac (VHT20)	CH116	2.07	11.00	Pass
11ac (VHT20)	CH140	1.89	11.00	Pass
11ac (VHT40)	CH102	-1.21	11.00	Pass
11ac (VHT40)	CH118	-1.24	11.00	Pass
11ac (VHT40)	CH134	-0.86	11.00	Pass
11ac (VHT80)	CH106	-4.69	11.00	Pass
11ac (VHT80)	CH122	-4.75	11.00	Pass
11ax (HE20)(SU)	CH100	1.80	11.00	Pass
11ax (HE20)(SU)	CH116	1.50	11.00	Pass
11ax (HE20)(SU)	CH140	1.78	11.00	Pass
11ax (HE40)(SU)	CH102	-1.95	11.00	Pass
11ax (HE40)(SU)	CH118	-2.27	11.00	Pass
11ax (HE40)(SU)	CH134	-2.16	11.00	Pass
11ax (HE80)(SU)	CH106	-4.69	11.00	Pass
11ax (HE80)(SU)	CH122	-4.76	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-0.299	30.00	Pass
11a	CH157	-0.22	30.00	Pass
11a	CH165	0.23	30.00	Pass
11n (HT20)	CH149	-0.25	30.00	Pass
11n (HT20)	CH157	-0.41	30.00	Pass
11n (HT20)	CH165	0.02	30.00	Pass
11n (HT40)	CH151	-3.67	30.00	Pass
11n (HT40)	CH159	-3.62	30.00	Pass
11ac (VHT20)	CH149	-0.43	30.00	Pass
11ac (VHT20)	CH157	-0.20	30.00	Pass
11ac (VHT20)	CH165	0.00	30.00	Pass
11ac (VHT40)	CH151	-3.56	30.00	Pass
11ac (VHT40)	CH159	-3.48	30.00	Pass
11ac (VHT80)	CH155	-7.75	30.00	Pass
11ax (HE20)(SU)	CH149	-1.38	30.00	Pass
11ax (HE20)(SU)	CH157	-1.06	30.00	Pass
11ax (HE20)(SU)	CH165	-1.01	30.00	Pass
11ax (HE40)(SU)	CH151	-4.58	30.00	Pass
11ax (HE40)(SU)	CH159	-4.21	30.00	Pass
11ax (HE80)(SU)	CH155	-8.46	30.00	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	2.56	11.00	Pass
11a	CH44	2.60	11.00	Pass
11a	CH48	2.57	11.00	Pass
11n (HT20)	CH36	2.39	11.00	Pass
11n (HT20)	CH44	2.36	11.00	Pass
11n (HT20)	CH48	2.35	11.00	Pass
11n (HT40)	CH38	-1.66	11.00	Pass
11n (HT40)	CH46	-1.36	11.00	Pass
11ac (VHT20)	CH36	2.18	11.00	Pass
11ac (VHT20)	CH44	2.35	11.00	Pass
11ac (VHT20)	CH48	2.23	11.00	Pass
11ac (VHT40)	CH38	-1.68	11.00	Pass
11ac (VHT40)	CH46	-1.63	11.00	Pass
11ac (VHT80)	CH42	-5.31	11.00	Pass
11ax (HE20)(SU)	CH36	1.48	11.00	Pass
11ax (HE20)(SU)	CH44	0.80	11.00	Pass
11ax (HE20)(SU)	CH48	0.70	11.00	Pass
11ax (HE40)(SU)	CH38	-1.69	11.00	Pass
11ax (HE40)(SU)	CH46	-1.96	11.00	Pass
11ax (HE80)(SU)	CH42	-5.46	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	2.47	11.00	Pass
11a	CH60	2.11	11.00	Pass
11a	CH64	2.24	11.00	Pass
11n (HT20)	CH52	2.01	11.00	Pass
11n (HT20)	CH60	1.85	11.00	Pass
11n (HT20)	CH64	2.16	11.00	Pass
11n (HT40)	CH54	-0.97	11.00	Pass
11n (HT40)	CH62	-1.20	11.00	Pass
11ac (VHT20)	CH52	2.08	11.00	Pass
11ac (VHT20)	CH60	3.36	11.00	Pass
11ac (VHT20)	CH64	3.34	11.00	Pass
11ac (VHT40)	CH54	-1.09	11.00	Pass
11ac (VHT40)	CH62	-0.95	11.00	Pass
11ac (VHT80)	CH58	-5.06	11.00	Pass
11ax (HE20)(SU)	CH52	1.11	11.00	Pass
11ax (HE20)(SU)	CH60	1.38	11.00	Pass
11ax (HE20)(SU)	CH64	1.18	11.00	Pass
11ax (HE40)(SU)	CH54	-2.42	11.00	Pass
11ax (HE40)(SU)	CH62	-2.50	11.00	Pass
11ax (HE80)(SU)	CH58	-5.08	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	3.27	11.00	Pass
11a	CH116	3.04	11.00	Pass
11a	CH140	2.71	11.00	Pass
11n (HT20)	CH100	3.00	11.00	Pass
11n (HT20)	CH116	2.87	11.00	Pass
11n (HT20)	CH140	2.52	11.00	Pass
11n (HT40)	CH102	-1.15	11.00	Pass
11n (HT40)	CH118	-1.43	11.00	Pass
11n (HT40)	CH134	-1.69	11.00	Pass
11ac (VHT20)	CH100	2.75	11.00	Pass
11ac (VHT20)	CH116	2.92	11.00	Pass
11ac (VHT20)	CH140	2.26	11.00	Pass
11ac (VHT40)	CH102	-1.44	11.00	Pass
11ac (VHT40)	CH118	-1.31	11.00	Pass
11ac (VHT40)	CH134	-1.58	11.00	Pass
11ac (VHT80)	CH106	-4.77	11.00	Pass
11ac (VHT80)	CH122	-5.00	11.00	Pass
11ax (HE20)(SU)	CH100	1.25	11.00	Pass
11ax (HE20)(SU)	CH116	1.13	11.00	Pass
11ax (HE20)(SU)	CH140	0.67	11.00	Pass
11ax (HE40)(SU)	CH102	-2.50	11.00	Pass
11ax (HE40)(SU)	CH118	-2.13	11.00	Pass
11ax (HE40)(SU)	CH134	-2.68	11.00	Pass
11ax (HE80)(SU)	CH106	-4.99	11.00	Pass
11ax (HE80)(SU)	CH122	-5.04	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-0.41	30.00	Pass
11a	CH157	-0.46	30.00	Pass
11a	CH165	-0.32	30.00	Pass
11n (HT20)	CH149	-0.56	30.00	Pass
11n (HT20)	CH157	-0.85	30.00	Pass
11n (HT20)	CH165	-0.66	30.00	Pass
11n (HT40)	CH151	-3.82	30.00	Pass
11n (HT40)	CH159	-3.65	30.00	Pass
11ac (VHT20)	CH149	-0.71	30.00	Pass
11ac (VHT20)	CH157	-0.62	30.00	Pass
11ac (VHT20)	CH165	-0.67	30.00	Pass
11ac (VHT40)	CH151	-3.78	30.00	Pass
11ac (VHT40)	CH159	-3.85	30.00	Pass
11ac (VHT80)	CH155	-8.59	30.00	Pass
11ax (HE20)(SU)	CH149	-1.56	30.00	Pass
11ax (HE20)(SU)	CH157	-1.68	30.00	Pass
11ax (HE20)(SU)	CH165	-1.87	30.00	Pass
11ax (HE40)(SU)	CH151	-4.90	30.00	Pass
11ax (HE40)(SU)	CH159	-4.77	30.00	Pass
11ax (HE80)(SU)	CH155	-8.27	30.00	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	5.70	11.00	Pass
11a	CH44	5.82	11.00	Pass
11a	CH48	5.75	11.00	Pass
11n (HT20)	CH36	5.47	11.00	Pass
11n (HT20)	CH44	5.55	11.00	Pass
11n (HT20)	CH48	5.55	11.00	Pass
11n (HT40)	CH38	1.47	11.00	Pass
11n (HT40)	CH46	1.73	11.00	Pass
11ac (VHT20)	CH36	5.16	11.00	Pass
11ac (VHT20)	CH44	5.57	11.00	Pass
11ac (VHT20)	CH48	5.42	11.00	Pass
11ac (VHT40)	CH38	1.33	11.00	Pass
11ac (VHT40)	CH46	1.50	11.00	Pass
11ac (VHT80)	CH42	-2.20	11.00	Pass
11ax (HE20)(SU)	CH36	4.33	11.00	Pass
11ax (HE20)(SU)	CH44	3.86	11.00	Pass
11ax (HE20)(SU)	CH48	3.65	11.00	Pass
11ax (HE40)(SU)	CH38	1.11	11.00	Pass
11ax (HE40)(SU)	CH46	1.10	11.00	Pass
11ax (HE80)(SU)	CH42	-2.42	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	5.70	11.00	Pass
11a	CH60	5.60	11.00	Pass
11a	CH64	5.72	11.00	Pass
11n (HT20)	CH52	5.35	11.00	Pass
11n (HT20)	CH60	5.32	11.00	Pass
11n (HT20)	CH64	5.55	11.00	Pass
11n (HT40)	CH54	1.70	11.00	Pass
11n (HT40)	CH62	1.63	11.00	Pass
11ac (VHT20)	CH52	5.54	11.00	Pass
11ac (VHT20)	CH60	6.14	11.00	Pass
11ac (VHT20)	CH64	6.19	11.00	Pass
11ac (VHT40)	CH54	1.65	11.00	Pass
11ac (VHT40)	CH62	1.79	11.00	Pass
11ac (VHT80)	CH58	-1.42	11.00	Pass
11ax (HE20)(SU)	CH52	4.07	11.00	Pass
11ax (HE20)(SU)	CH60	4.10	11.00	Pass
11ax (HE20)(SU)	CH64	4.09	11.00	Pass
11ax (HE40)(SU)	CH54	0.84	11.00	Pass
11ax (HE40)(SU)	CH62	0.75	11.00	Pass
11ax (HE80)(SU)	CH58	-2.13	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	6.14	11.00	Pass
11a	CH116	5.71	11.00	Pass
11a	CH140	5.52	11.00	Pass
11n (HT20)	CH100	5.51	11.00	Pass
11n (HT20)	CH116	5.44	11.00	Pass
11n (HT20)	CH140	5.30	11.00	Pass
11n (HT40)	CH102	1.74	11.00	Pass
11n (HT40)	CH118	1.44	11.00	Pass
11n (HT40)	CH134	1.42	11.00	Pass
11ac (VHT20)	CH100	5.46	11.00	Pass
11ac (VHT20)	CH116	5.52	11.00	Pass
11ac (VHT20)	CH140	5.09	11.00	Pass
11ac (VHT40)	CH102	1.69	11.00	Pass
11ac (VHT40)	CH118	1.73	11.00	Pass
11ac (VHT40)	CH134	1.81	11.00	Pass
11ac (VHT80)	CH106	-1.72	11.00	Pass
11ac (VHT80)	CH122	-1.86	11.00	Pass
11ax (HE20)(SU)	CH100	4.54	11.00	Pass
11ax (HE20)(SU)	CH116	4.33	11.00	Pass
11ax (HE20)(SU)	CH140	4.27	11.00	Pass
11ax (HE40)(SU)	CH102	0.80	11.00	Pass
11ax (HE40)(SU)	CH118	0.81	11.00	Pass
11ax (HE40)(SU)	CH134	0.60	11.00	Pass
11ax (HE80)(SU)	CH106	-1.83	11.00	Pass
11ax (HE80)(SU)	CH122	-1.88	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	2.66	30.00	Pass
11a	CH157	2.67	30.00	Pass
11a	CH165	2.98	30.00	Pass
11n (HT20)	CH149	2.61	30.00	Pass
11n (HT20)	CH157	2.39	30.00	Pass
11n (HT20)	CH165	2.70	30.00	Pass
11n (HT40)	CH151	-0.73	30.00	Pass
11n (HT40)	CH159	-0.62	30.00	Pass
11ac (VHT20)	CH149	2.44	30.00	Pass
11ac (VHT20)	CH157	2.61	30.00	Pass
11ac (VHT20)	CH165	2.69	30.00	Pass
11ac (VHT40)	CH151	-0.66	30.00	Pass
11ac (VHT40)	CH159	-0.65	30.00	Pass
11ac (VHT80)	CH155	-5.14	30.00	Pass
11ax (HE20)(SU)	CH149	1.54	30.00	Pass
11ax (HE20)(SU)	CH157	1.65	30.00	Pass
11ax (HE20)(SU)	CH165	1.59	30.00	Pass
11ax (HE40)(SU)	CH151	-1.72	30.00	Pass
11ax (HE40)(SU)	CH159	-1.47	30.00	Pass
11ax (HE80)(SU)	CH155	-5.35	30.00	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.

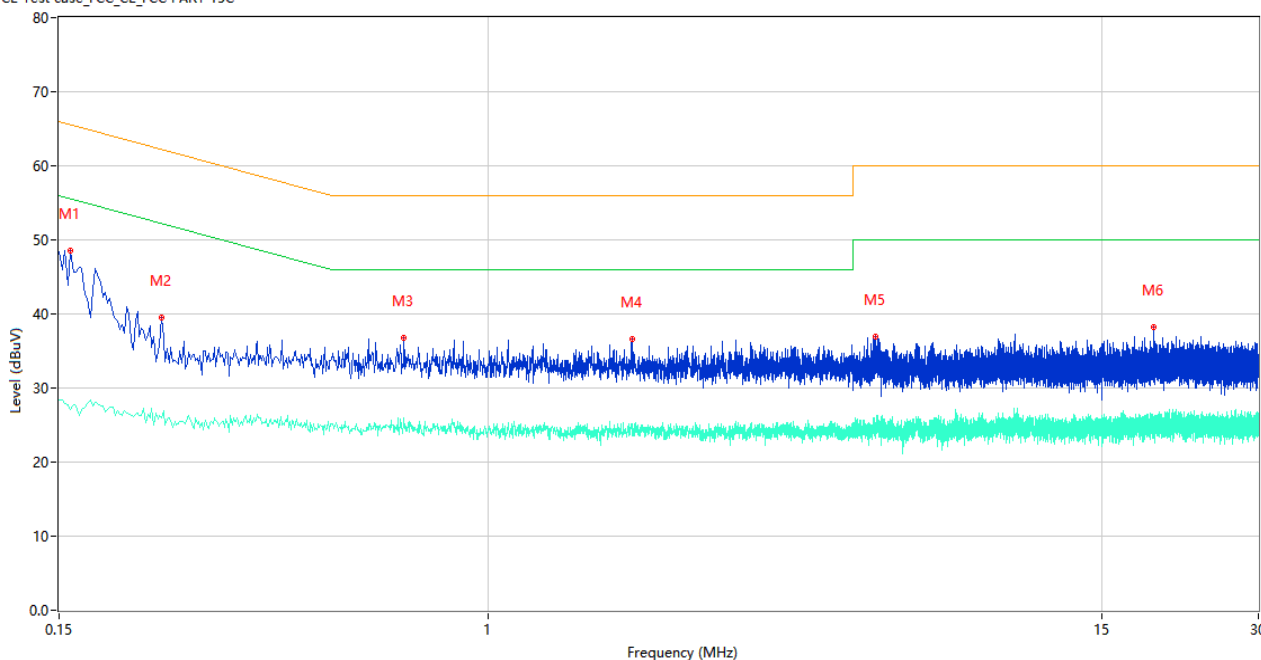
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

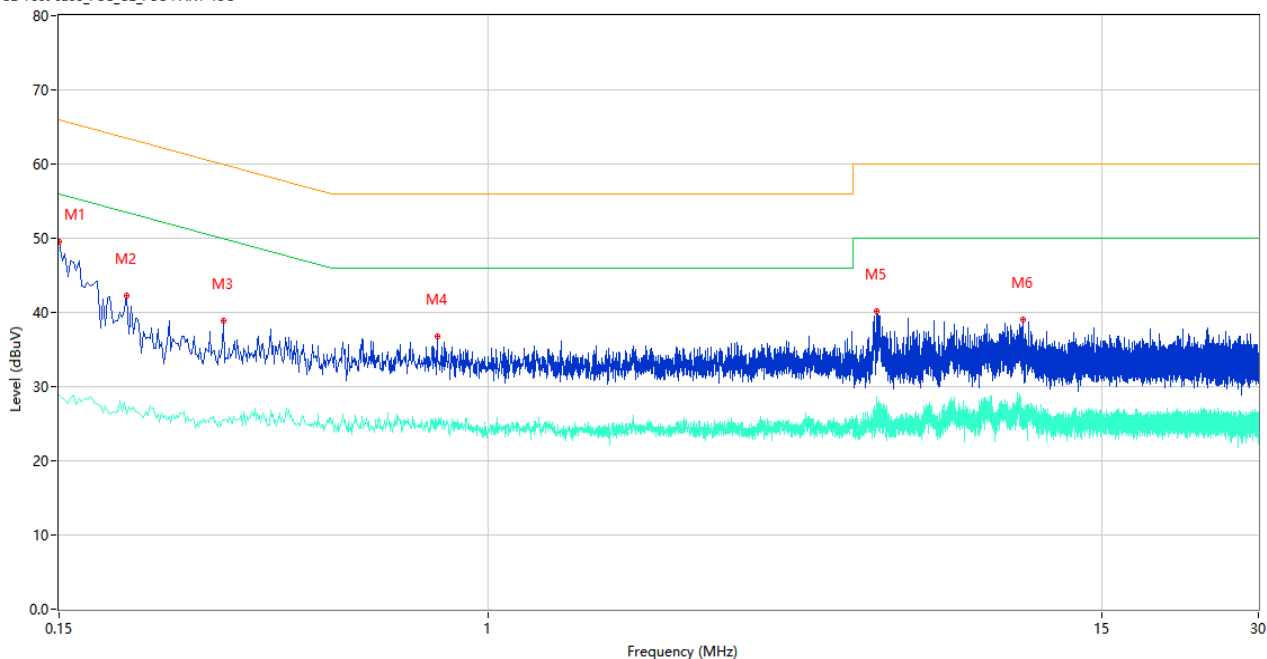
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	48.51	9.86	65.57	17.06	Peak	L	Pass
1**	0.158	27.04	9.86	55.57	28.53	AV	L	Pass
2	0.236	39.47	9.83	62.24	22.77	Peak	L	Pass
2**	0.236	25.92	9.83	52.24	26.32	AV	L	Pass
3	0.688	36.84	10.61	56.00	19.16	Peak	L	Pass
3**	0.688	25.92	10.61	46.00	20.08	AV	L	Pass
4	1.890	36.56	10.71	56.00	19.44	Peak	L	Pass
4**	1.890	25.17	10.71	46.00	20.83	AV	L	Pass
5	5.530	36.90	10.53	60.00	23.10	Peak	L	Pass
5**	5.530	24.36	10.53	50.00	25.64	AV	L	Pass
6	18.876	38.27	11.00	60.00	21.73	Peak	L	Pass
6**	18.876	25.81	11.00	50.00	24.19	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	0.150	49.60	9.86	66.00	16.40	Peak	N	Pass
1**	0.150	28.83	9.86	56.00	27.17	AV	N	Pass
2	0.202	42.21	9.84	63.53	21.32	Peak	N	Pass
2**	0.202	26.22	9.84	53.53	27.31	AV	N	Pass
3	0.310	38.80	10.02	59.97	21.17	Peak	N	Pass
3**	0.310	25.51	10.02	49.97	24.46	AV	N	Pass
4	0.798	36.70	10.58	56.00	19.30	Peak	N	Pass
4**	0.798	25.24	10.58	46.00	20.76	AV	N	Pass
5	5.554	40.11	10.54	60.00	19.89	Peak	N	Pass
5**	5.554	26.76	10.54	50.00	23.24	AV	N	Pass
6	10.604	39.06	10.63	60.00	20.94	Peak	N	Pass
6**	10.604	26.61	10.63	50.00	23.39	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.

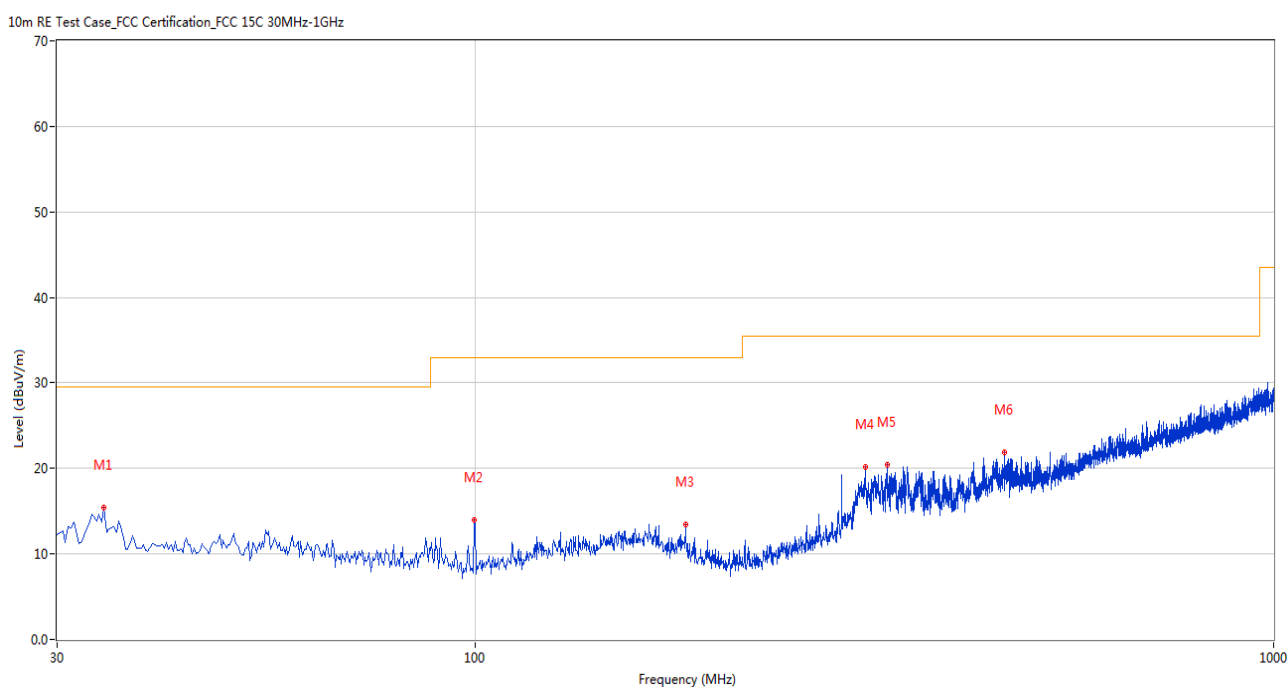
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

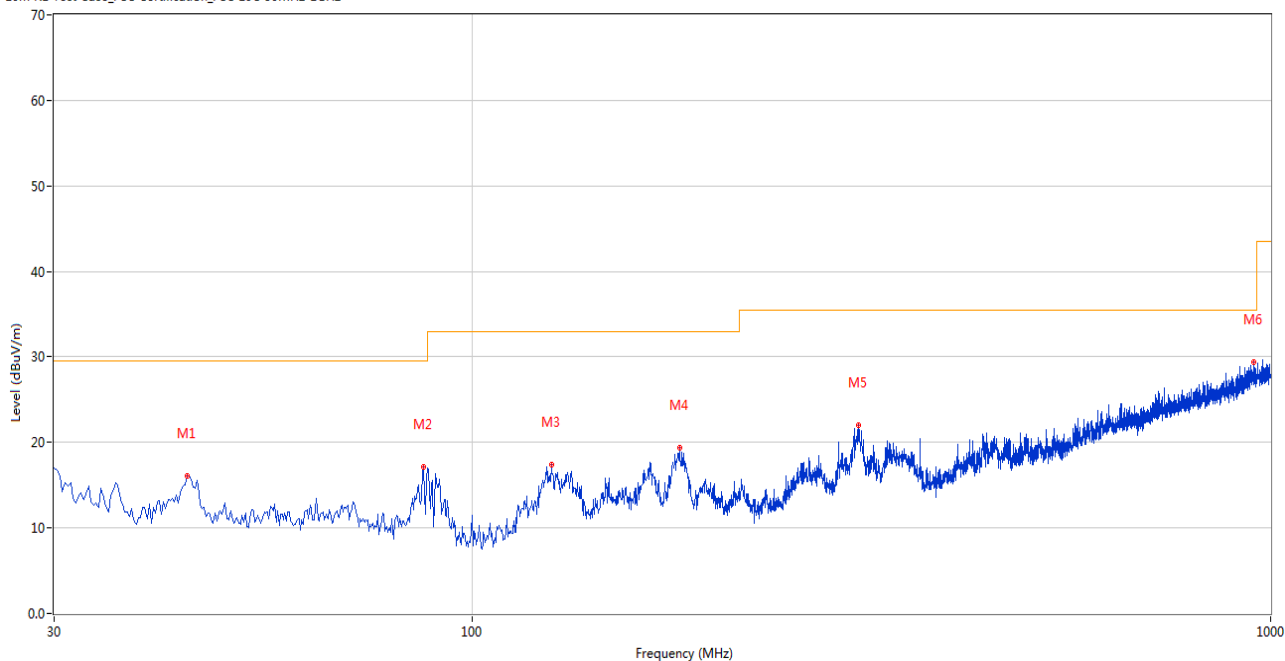
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.364	15.38	-26.94	29.5	14.12	Peak	0.00	200	Horizontal	Pass
2	99.823	13.98	-29.96	33.0	19.02	Peak	31.00	100	Horizontal	Pass
3	183.464	13.44	-27.92	33.0	19.56	Peak	161.00	200	Horizontal	Pass
4	308.320	20.22	-25.17	35.5	15.28	Peak	112.00	200	Horizontal	Pass
5	328.443	20.44	-24.74	35.5	15.06	Peak	117.00	200	Horizontal	Pass
6	460.087	21.85	-21.04	35.5	13.65	Peak	242.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.061	16.14	-26.82	29.5	13.36	Peak	128.00	100	Vertical	Pass
2	86.973	17.14	-30.62	29.5	12.36	Peak	107.00	100	Vertical	Pass
3	125.764	17.45	-27.73	33.0	15.55	Peak	275.00	100	Vertical	Pass
4	182.009	19.42	-27.75	33.0	13.58	Peak	232.00	100	Vertical	Pass
5	304.926	21.96	-25.34	35.5	13.54	Peak	259.00	100	Vertical	Pass
6	952.239	29.37	-9.63	35.5	6.13	Peak	0.00	200	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 2

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	1510.902	42.44	74.0	31.56	Peak	106.00	400	Horizontal	Pass
1**	1510.902	29.08	54.0	24.92	AV	106.00	400	Horizontal	Pass
2	2349.291	44.82	74.0	29.18	Peak	240.00	100	Horizontal	Pass
2**	2349.291	36.84	54.0	17.16	AV	240.00	100	Horizontal	Pass
3	4208.527	47.94	74.0	26.06	Peak	303.00	200	Horizontal	Pass
3**	4208.527	36.73	54.0	17.27	AV	303.00	200	Horizontal	Pass
4	7434.916	54.65	74.0	19.35	Peak	49.00	200	Horizontal	Pass
4**	7434.916	42.79	54.0	11.21	AV	49.00	200	Horizontal	Pass
5	12520.350	56.08	74.0	17.92	Peak	125.00	300	Horizontal	Pass
5**	12520.350	46.98	54.0	7.02	AV	125.00	300	Horizontal	Pass
6	16145.173	56.31	74.0	17.69	Peak	88.00	200	Horizontal	Pass
6**	16145.173	42.82	54.0	11.18	AV	88.00	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	1572.057	34.49	74.0	39.51	Peak	340.00	100	Vertical	Pass
1**	1572.057	26.52	54.0	27.48	AV	340.00	100	Vertical	Pass
2	2349.703	42.87	74.0	31.13	Peak	121.00	300	Vertical	Pass
2**	2349.703	31.35	54.0	22.65	AV	121.00	300	Vertical	Pass
3	3915.855	44.68	74.0	29.32	Peak	301.00	200	Vertical	Pass
3**	3915.855	35.83	54.0	18.17	AV	301.00	200	Vertical	Pass
4	7680.090	54.74	74.0	19.26	Peak	66.00	100	Vertical	Pass
4**	7680.090	45.62	54.0	8.38	AV	66.00	100	Vertical	Pass
5	12533.586	57.60	74.0	16.40	Peak	183.00	200	Vertical	Pass
5**	12533.586	40.88	54.0	13.12	AV	183.00	200	Vertical	Pass
6	15385.395	50.45	74.0	23.55	Peak	41.00	300	Vertical	Pass
6**	15385.395	46.53	54.0	7.47	AV	41.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.408	40.55	74.0	33.45	Peak	28.00	300	Horizontal	Pass
1**	1508.408	28.57	54.0	25.43	AV	28.00	300	Horizontal	Pass
2	2345.325	42.53	74.0	31.47	Peak	309.00	200	Horizontal	Pass
2**	2345.325	36.81	54.0	17.19	AV	309.00	200	Horizontal	Pass
3	4207.166	44.91	74.0	29.09	Peak	178.00	200	Horizontal	Pass
3**	4207.166	35.96	54.0	18.04	AV	178.00	200	Horizontal	Pass
4	7431.047	54.64	74.0	19.36	Peak	107.00	100	Horizontal	Pass
4**	7431.047	40.05	54.0	13.95	AV	107.00	100	Horizontal	Pass
5	12514.134	57.52	74.0	16.48	Peak	76.00	400	Horizontal	Pass
5**	12514.134	47.84	54.0	6.16	AV	76.00	400	Horizontal	Pass
6	16148.534	54.92	74.0	19.08	Peak	214.00	200	Horizontal	Pass
6**	16148.534	42.11	54.0	11.89	AV	214.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.717	38.82	74.0	35.18	Peak	333.00	300	Vertical	Pass
1**	1570.717	28.10	54.0	25.90	AV	333.00	300	Vertical	Pass
2	2346.468	46.03	74.0	27.97	Peak	314.00	300	Vertical	Pass
2**	2346.468	32.25	54.0	21.75	AV	314.00	300	Vertical	Pass
3	3913.367	43.32	74.0	30.68	Peak	20.00	200	Vertical	Pass
3**	3913.367	37.92	54.0	16.08	AV	20.00	200	Vertical	Pass
4	7683.843	52.30	74.0	21.70	Peak	3.00	300	Vertical	Pass
4**	7683.843	41.96	54.0	12.04	AV	3.00	300	Vertical	Pass
5	12530.721	54.86	74.0	19.14	Peak	242.00	100	Vertical	Pass
5**	12530.721	43.59	54.0	10.41	AV	242.00	100	Vertical	Pass
6	15384.828	55.38	74.0	18.62	Peak	215.00	200	Vertical	Pass
6**	15384.828	41.75	54.0	12.25	AV	215.00	200	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	1514.582	38.29	74.0	35.71	Peak	17.00	400	Horizontal	Pass
1**	1514.582	26.83	54.0	27.17	AV	17.00	400	Horizontal	Pass
2	2348.696	44.89	74.0	29.11	Peak	195.00	200	Horizontal	Pass
2**	2348.696	35.34	54.0	18.66	AV	195.00	200	Horizontal	Pass
3	4209.380	45.49	74.0	28.51	Peak	267.00	200	Horizontal	Pass
3**	4209.380	37.96	54.0	16.04	AV	267.00	200	Horizontal	Pass
4	7435.544	52.46	74.0	21.54	Peak	23.00	400	Horizontal	Pass
4**	7435.544	44.72	54.0	9.28	AV	23.00	400	Horizontal	Pass
5	12518.837	56.64	74.0	17.36	Peak	280.00	200	Horizontal	Pass
5**	12518.837	47.68	54.0	6.32	AV	280.00	200	Horizontal	Pass
6	16146.844	52.33	74.0	21.67	Peak	70.00	100	Horizontal	Pass
6**	16146.844	45.24	54.0	8.76	AV	70.00	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	1566.604	37.40	74.0	36.60	Peak	225.00	300	Vertical	Pass
1**	1566.604	28.18	54.0	25.82	AV	225.00	300	Vertical	Pass
2	2345.739	44.42	74.0	29.58	Peak	360.00	300	Vertical	Pass
2**	2345.739	30.47	54.0	23.53	AV	360.00	300	Vertical	Pass
3	3916.111	47.71	74.0	26.29	Peak	230.00	200	Vertical	Pass
3**	3916.111	35.58	54.0	18.42	AV	230.00	200	Vertical	Pass
4	7678.994	53.84	74.0	20.16	Peak	246.00	200	Vertical	Pass
4**	7678.994	41.57	54.0	12.43	AV	246.00	200	Vertical	Pass
5	12532.975	57.90	74.0	16.10	Peak	249.00	100	Vertical	Pass
5**	12532.975	41.39	54.0	12.61	AV	249.00	100	Vertical	Pass
6	15385.571	54.69	74.0	19.31	Peak	288.00	300	Vertical	Pass
6**	15385.571	42.78	54.0	11.22	AV	288.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1515.306	39.92	74.0	34.08	Peak	223.00	100	Horizontal	Pass
1**	1515.306	28.95	54.0	25.05	AV	223.00	100	Horizontal	Pass
2	2347.578	47.14	74.0	26.86	Peak	223.00	400	Horizontal	Pass
2**	2347.578	35.89	54.0	18.11	AV	223.00	400	Horizontal	Pass
3	4207.587	47.13	74.0	26.87	Peak	71.00	200	Horizontal	Pass
3**	4207.587	38.09	54.0	15.91	AV	71.00	200	Horizontal	Pass
4	7436.030	55.67	74.0	18.33	Peak	34.00	200	Horizontal	Pass
4**	7436.030	44.45	54.0	9.55	AV	34.00	200	Horizontal	Pass
5	12516.036	54.71	74.0	19.29	Peak	275.00	100	Horizontal	Pass
5**	12516.036	46.99	54.0	7.01	AV	275.00	100	Horizontal	Pass
6	16149.787	53.85	74.0	20.15	Peak	250.00	300	Horizontal	Pass
6**	16149.787	44.32	54.0	9.68	AV	250.00	300	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	1567.607	35.43	74.0	38.57	Peak	278.00	100	Vertical	Pass
1**	1567.607	27.98	54.0	26.02	AV	278.00	100	Vertical	Pass
2	2350.870	46.11	74.0	27.89	Peak	194.00	100	Vertical	Pass
2**	2350.870	35.18	54.0	18.82	AV	194.00	100	Vertical	Pass
3	3914.867	43.04	74.0	30.96	Peak	278.00	200	Vertical	Pass
3**	3914.867	35.42	54.0	18.58	AV	278.00	200	Vertical	Pass
4	7679.004	51.14	74.0	22.86	Peak	108.00	100	Vertical	Pass
4**	7679.004	45.08	54.0	8.92	AV	108.00	100	Vertical	Pass
5	12527.217	53.33	74.0	20.67	Peak	282.00	400	Vertical	Pass
5**	12527.217	44.02	54.0	9.98	AV	282.00	400	Vertical	Pass
6	15381.932	52.49	74.0	21.51	Peak	59.00	200	Vertical	Pass
6**	15381.932	43.41	54.0	10.59	AV	59.00	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	1508.914	38.61	74.0	35.39	Peak	334.00	400	Horizontal	Pass
1**	1508.914	29.08	54.0	24.92	AV	334.00	400	Horizontal	Pass
2	2351.724	43.07	74.0	30.93	Peak	111.00	200	Horizontal	Pass
2**	2351.724	36.03	54.0	17.97	AV	111.00	200	Horizontal	Pass
3	4202.125	48.35	74.0	25.65	Peak	26.00	200	Horizontal	Pass
3**	4202.125	37.35	54.0	16.65	AV	26.00	200	Horizontal	Pass
4	7437.141	51.72	74.0	22.28	Peak	180.00	300	Horizontal	Pass
4**	7437.141	40.36	54.0	13.64	AV	180.00	300	Horizontal	Pass
5	12517.884	55.74	74.0	18.26	Peak	208.00	300	Horizontal	Pass
5**	12517.884	49.77	54.0	4.23	AV	208.00	300	Horizontal	Pass
6	16151.051	56.99	74.0	17.01	Peak	184.00	300	Horizontal	Pass
6**	16151.051	41.36	54.0	12.64	AV	184.00	300	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	1573.331	35.35	74.0	38.65	Peak	43.00	400	Vertical	Pass
1**	1573.331	26.72	54.0	27.28	AV	43.00	400	Vertical	Pass
2	2347.449	42.87	74.0	31.13	Peak	128.00	200	Vertical	Pass
2**	2347.449	33.40	54.0	20.60	AV	128.00	200	Vertical	Pass
3	3915.651	45.83	74.0	28.17	Peak	169.00	200	Vertical	Pass
3**	3915.651	34.69	54.0	19.31	AV	169.00	200	Vertical	Pass
4	7681.556	49.35	74.0	24.65	Peak	3.00	200	Vertical	Pass
4**	7681.556	43.67	54.0	10.33	AV	3.00	200	Vertical	Pass
5	12533.417	58.08	74.0	15.92	Peak	354.00	400	Vertical	Pass
5**	12533.417	44.23	54.0	9.77	AV	354.00	400	Vertical	Pass
6	15381.931	50.35	74.0	23.65	Peak	16.00	100	Vertical	Pass
6**	15381.931	42.36	54.0	11.64	AV	16.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.102	41.78	74.0	32.22	Peak	138.00	300	Horizontal	Pass
1**	1508.102	31.14	54.0	22.86	AV	138.00	300	Horizontal	Pass
2	2351.626	44.30	74.0	29.70	Peak	223.00	100	Horizontal	Pass
2**	2351.626	38.04	54.0	15.96	AV	223.00	100	Horizontal	Pass
3	4204.337	44.82	74.0	29.18	Peak	182.00	200	Horizontal	Pass
3**	4204.337	34.98	54.0	19.02	AV	182.00	200	Horizontal	Pass
4	7431.733	54.66	74.0	19.34	Peak	260.00	100	Horizontal	Pass
4**	7431.733	45.77	54.0	8.23	AV	260.00	100	Horizontal	Pass
5	12516.033	58.39	74.0	15.61	Peak	341.00	300	Horizontal	Pass
5**	12516.033	48.78	54.0	5.22	AV	341.00	300	Horizontal	Pass
6	16148.962	56.04	74.0	17.96	Peak	318.00	100	Horizontal	Pass
6**	16148.962	43.56	54.0	10.44	AV	318.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1568.716	34.52	74.0	39.48	Peak	151.00	300	Vertical	Pass
1**	1568.716	26.41	54.0	27.59	AV	151.00	300	Vertical	Pass
2	2346.171	46.64	74.0	27.36	Peak	326.00	300	Vertical	Pass
2**	2346.171	33.70	54.0	20.30	AV	326.00	300	Vertical	Pass
3	3918.328	45.07	74.0	28.93	Peak	212.00	200	Vertical	Pass
3**	3918.328	38.70	54.0	15.30	AV	212.00	200	Vertical	Pass
4	7679.205	53.29	74.0	20.71	Peak	231.00	400	Vertical	Pass
4**	7679.205	42.93	54.0	11.07	AV	231.00	400	Vertical	Pass
5	12531.828	53.48	74.0	20.52	Peak	353.00	400	Vertical	Pass
5**	12531.828	41.88	54.0	12.12	AV	353.00	400	Vertical	Pass
6	15382.159	52.07	74.0	21.93	Peak	262.00	300	Vertical	Pass
6**	15382.159	42.88	54.0	11.12	AV	262.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1515.149	41.46	74.0	32.54	Peak	43.00	100	Horizontal	Pass
1**	1515.149	30.15	54.0	23.85	AV	43.00	100	Horizontal	Pass
2	2350.606	43.94	74.0	30.06	Peak	264.00	300	Horizontal	Pass
2**	2350.606	35.34	54.0	18.66	AV	264.00	300	Horizontal	Pass
3	4201.918	49.76	74.0	24.24	Peak	10.00	200	Horizontal	Pass
3**	4201.918	36.52	54.0	17.48	AV	10.00	200	Horizontal	Pass
4	7432.523	53.74	74.0	20.26	Peak	163.00	400	Horizontal	Pass
4**	7432.523	40.35	54.0	13.65	AV	163.00	400	Horizontal	Pass
5	12514.056	54.95	74.0	19.05	Peak	280.00	200	Horizontal	Pass
5**	12514.056	48.21	54.0	5.79	AV	280.00	200	Horizontal	Pass
6	16149.802	53.04	74.0	20.96	Peak	181.00	200	Horizontal	Pass
6**	16149.802	42.81	54.0	11.19	AV	181.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.463	33.93	74.0	40.07	Peak	308.00	300	Vertical	Pass
1**	1574.463	25.54	54.0	28.46	AV	308.00	300	Vertical	Pass
2	2348.066	43.01	74.0	30.99	Peak	99.00	300	Vertical	Pass
2**	2348.066	32.30	54.0	21.70	AV	99.00	300	Vertical	Pass
3	3918.448	46.36	74.0	27.64	Peak	143.00	200	Vertical	Pass
3**	3918.448	34.22	54.0	19.78	AV	143.00	200	Vertical	Pass
4	7677.419	54.40	74.0	19.60	Peak	6.00	400	Vertical	Pass
4**	7677.419	41.81	54.0	12.19	AV	6.00	400	Vertical	Pass
5	12526.239	56.31	74.0	17.69	Peak	242.00	400	Vertical	Pass
5**	12526.239	44.75	54.0	9.25	AV	242.00	400	Vertical	Pass
6	15385.828	53.84	74.0	20.16	Peak	191.00	300	Vertical	Pass
6**	15385.828	46.49	54.0	7.51	AV	191.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.020	37.32	74.0	36.68	Peak	342.00	400	Horizontal	Pass
1**	1512.020	29.68	54.0	24.32	AV	342.00	400	Horizontal	Pass
2	2348.518	44.55	74.0	29.45	Peak	338.00	300	Horizontal	Pass
2**	2348.518	39.99	54.0	14.01	AV	338.00	300	Horizontal	Pass
3	4203.624	49.67	74.0	24.33	Peak	342.00	200	Horizontal	Pass
3**	4203.624	35.50	54.0	18.50	AV	342.00	200	Horizontal	Pass
4	7431.821	54.49	74.0	19.51	Peak	201.00	300	Horizontal	Pass
4**	7431.821	40.45	54.0	13.55	AV	201.00	300	Horizontal	Pass
5	12517.993	56.36	74.0	17.64	Peak	342.00	100	Horizontal	Pass
5**	12517.993	46.17	54.0	7.83	AV	342.00	100	Horizontal	Pass
6	16145.683	51.54	74.0	22.46	Peak	8.00	200	Horizontal	Pass
6**	16145.683	45.87	54.0	8.13	AV	8.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1573.021	33.70	74.0	40.30	Peak	177.00	400	Vertical	Pass
1**	1573.021	24.35	54.0	29.65	AV	177.00	400	Vertical	Pass
2	2345.011	43.71	74.0	30.29	Peak	158.00	100	Vertical	Pass
2**	2345.011	31.97	54.0	22.03	AV	158.00	100	Vertical	Pass
3	3916.679	44.50	74.0	29.50	Peak	215.00	200	Vertical	Pass
3**	3916.679	38.55	54.0	15.45	AV	215.00	200	Vertical	Pass
4	7676.733	53.92	74.0	20.08	Peak	17.00	300	Vertical	Pass
4**	7676.733	41.90	54.0	12.10	AV	17.00	300	Vertical	Pass
5	12531.348	57.89	74.0	16.11	Peak	334.00	400	Vertical	Pass
5**	12531.348	44.81	54.0	9.19	AV	334.00	400	Vertical	Pass
6	15379.441	52.59	74.0	21.41	Peak	295.00	300	Vertical	Pass
6**	15379.441	42.93	54.0	11.07	AV	295.00	300	Vertical	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.439	36.98	74.0	37.02	Peak	64.00	400	Horizontal	Pass
1**	1512.439	28.71	54.0	25.29	AV	64.00	400	Horizontal	Pass
2	2351.828	45.58	74.0	28.42	Peak	266.00	300	Horizontal	Pass
2**	2351.828	40.26	54.0	13.74	AV	266.00	300	Horizontal	Pass
3	4202.342	48.25	74.0	25.75	Peak	356.00	200	Horizontal	Pass
3**	4202.342	38.28	54.0	15.72	AV	356.00	200	Horizontal	Pass
4	7435.386	53.43	74.0	20.57	Peak	94.00	100	Horizontal	Pass
4**	7435.386	41.01	54.0	12.99	AV	94.00	100	Horizontal	Pass
5	12521.315	56.14	74.0	17.86	Peak	281.00	300	Horizontal	Pass
5**	12521.315	45.55	54.0	8.45	AV	281.00	300	Horizontal	Pass
6	16150.242	53.29	74.0	20.71	Peak	267.00	200	Horizontal	Pass
6**	16150.242	44.54	54.0	9.46	AV	267.00	200	Horizontal	Pass

11ac20, 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	1572.300	36.18	74.0	37.82	Peak	327.00	400	Vertical	Pass
1**	1572.300	29.70	54.0	24.30	AV	327.00	400	Vertical	Pass
2	2343.939	45.37	74.0	28.63	Peak	1.00	400	Vertical	Pass
2**	2343.939	35.38	54.0	18.62	AV	1.00	400	Vertical	Pass
3	3920.461	43.74	74.0	30.26	Peak	194.00	200	Vertical	Pass
3**	3920.461	35.56	54.0	18.44	AV	194.00	200	Vertical	Pass
4	7679.191	51.14	74.0	22.86	Peak	316.00	300	Vertical	Pass
4**	7679.191	41.61	54.0	12.39	AV	316.00	300	Vertical	Pass
5	12530.759	53.15	74.0	20.85	Peak	58.00	400	Vertical	Pass
5**	12530.759	43.22	54.0	10.78	AV	58.00	400	Vertical	Pass
6	15382.604	53.53	74.0	20.47	Peak	160.00	200	Vertical	Pass
6**	15382.604	45.04	54.0	8.96	AV	160.00	200	Vertical	Pass

11ac20, 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	1508.491	36.67	74.0	37.33	Peak	246.00	200	Horizontal	Pass
1**	1508.491	31.26	54.0	22.74	AV	246.00	200	Horizontal	Pass
2	2349.826	47.03	74.0	26.97	Peak	313.00	400	Horizontal	Pass
2**	2349.826	35.02	54.0	18.98	AV	313.00	400	Horizontal	Pass
3	4207.743	48.28	74.0	25.72	Peak	139.00	200	Horizontal	Pass
3**	4207.743	37.81	54.0	16.19	AV	139.00	200	Horizontal	Pass
4	7435.097	52.17	74.0	21.83	Peak	43.00	200	Horizontal	Pass
4**	7435.097	40.57	54.0	13.43	AV	43.00	200	Horizontal	Pass
5	12517.736	56.64	74.0	17.36	Peak	276.00	200	Horizontal	Pass
5**	12517.736	49.66	54.0	4.34	AV	276.00	200	Horizontal	Pass
6	16144.404	54.90	74.0	19.10	Peak	298.00	400	Horizontal	Pass
6**	16144.404	41.50	54.0	12.50	AV	298.00	400	Horizontal	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.874	36.54	74.0	37.46	Peak	328.00	400	Vertical	Pass
1**	1572.874	24.52	54.0	29.48	AV	328.00	400	Vertical	Pass
2	2345.292	43.10	74.0	30.90	Peak	355.00	200	Vertical	Pass
2**	2345.292	32.73	54.0	21.27	AV	355.00	200	Vertical	Pass
3	3916.686	45.44	74.0	28.56	Peak	330.00	200	Vertical	Pass
3**	3916.686	38.56	54.0	15.44	AV	330.00	200	Vertical	Pass
4	7681.978	49.68	74.0	24.32	Peak	233.00	300	Vertical	Pass
4**	7681.978	45.61	54.0	8.39	AV	233.00	300	Vertical	Pass
5	12532.939	53.19	74.0	20.81	Peak	180.00	400	Vertical	Pass
5**	12532.939	44.26	54.0	9.74	AV	180.00	400	Vertical	Pass
6	15384.858	51.62	74.0	22.38	Peak	170.00	100	Vertical	Pass
6**	15384.858	42.24	54.0	11.76	AV	170.00	100	Vertical	Pass

11ac20, 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	1510.315	38.88	74.0	35.12	Peak	22.00	100	Horizontal	Pass
1**	1510.315	27.28	54.0	26.72	AV	22.00	100	Horizontal	Pass
2	2348.666	44.53	74.0	29.47	Peak	183.00	300	Horizontal	Pass
2**	2348.666	35.81	54.0	18.19	AV	183.00	300	Horizontal	Pass
3	4205.859	48.43	74.0	25.57	Peak	331.00	200	Horizontal	Pass
3**	4205.859	36.74	54.0	17.26	AV	331.00	200	Horizontal	Pass
4	7431.998	51.54	74.0	22.46	Peak	258.00	200	Horizontal	Pass
4**	7431.998	41.60	54.0	12.40	AV	258.00	200	Horizontal	Pass
5	12515.940	56.17	74.0	17.83	Peak	59.00	400	Horizontal	Pass
5**	12515.940	47.94	54.0	6.06	AV	59.00	400	Horizontal	Pass
6	16147.813	57.21	74.0	16.79	Peak	157.00	200	Horizontal	Pass
6**	16147.813	41.21	54.0	12.79	AV	157.00	200	Horizontal	Pass

11ac20, 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	1573.486	36.60	74.0	37.40	Peak	46.00	200	Vertical	Pass
1**	1573.486	24.88	54.0	29.12	AV	46.00	200	Vertical	Pass
2	2348.984	47.58	74.0	26.42	Peak	342.00	200	Vertical	Pass
2**	2348.984	33.37	54.0	20.63	AV	342.00	200	Vertical	Pass
3	3920.932	43.76	74.0	30.24	Peak	134.00	200	Vertical	Pass
3**	3920.932	34.25	54.0	19.75	AV	134.00	200	Vertical	Pass
4	7680.587	52.44	74.0	21.56	Peak	286.00	300	Vertical	Pass
4**	7680.587	41.10	54.0	12.90	AV	286.00	300	Vertical	Pass
5	12532.747	54.79	74.0	19.21	Peak	88.00	200	Vertical	Pass
5**	12532.747	41.52	54.0	12.48	AV	88.00	200	Vertical	Pass
6	15384.469	51.98	74.0	22.02	Peak	159.00	400	Vertical	Pass
6**	15384.469	47.35	54.0	6.65	AV	159.00	400	Vertical	Pass

11ac40, 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	1509.866	41.51	74.0	32.49	Peak	122.00	200	Horizontal	Pass
1**	1509.866	28.72	54.0	25.28	AV	122.00	200	Horizontal	Pass
2	2351.244	45.99	74.0	28.01	Peak	246.00	100	Horizontal	Pass
2**	2351.244	37.17	54.0	16.83	AV	246.00	100	Horizontal	Pass
3	4206.717	45.32	74.0	28.68	Peak	52.00	200	Horizontal	Pass
3**	4206.717	36.85	54.0	17.15	AV	52.00	200	Horizontal	Pass
4	7433.382	56.72	74.0	17.28	Peak	131.00	200	Horizontal	Pass
4**	7433.382	40.42	54.0	13.58	AV	131.00	200	Horizontal	Pass
5	12514.685	54.62	74.0	19.38	Peak	240.00	300	Horizontal	Pass
5**	12514.685	45.76	54.0	8.24	AV	240.00	300	Horizontal	Pass
6	16148.740	51.48	74.0	22.52	Peak	164.00	200	Horizontal	Pass
6**	16148.740	41.98	54.0	12.02	AV	164.00	200	Horizontal	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.792	37.52	74.0	36.48	Peak	225.00	400	Vertical	Pass
1**	1570.792	23.79	54.0	30.21	AV	225.00	400	Vertical	Pass
2	2343.968	47.11	74.0	26.89	Peak	141.00	400	Vertical	Pass
2**	2343.968	35.28	54.0	18.72	AV	141.00	400	Vertical	Pass
3	3915.482	45.04	74.0	28.96	Peak	28.00	200	Vertical	Pass
3**	3915.482	36.15	54.0	17.85	AV	28.00	200	Vertical	Pass
4	7679.238	50.87	74.0	23.13	Peak	81.00	100	Vertical	Pass
4**	7679.238	45.23	54.0	8.77	AV	81.00	100	Vertical	Pass
5	12528.024	53.86	74.0	20.14	Peak	31.00	100	Vertical	Pass
5**	12528.024	40.77	54.0	13.23	AV	31.00	100	Vertical	Pass
6	15385.354	52.26	74.0	21.74	Peak	257.00	300	Vertical	Pass
6**	15385.354	46.36	54.0	7.64	AV	257.00	300	Vertical	Pass

11ac40, 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	1511.907	41.29	74.0	32.71	Peak	162.00	400	Horizontal	Pass
1**	1511.907	27.23	54.0	26.77	AV	162.00	400	Horizontal	Pass
2	2345.007	42.15	74.0	31.85	Peak	101.00	300	Horizontal	Pass
2**	2345.007	40.47	54.0	13.53	AV	101.00	300	Horizontal	Pass
3	4202.579	49.44	74.0	24.56	Peak	47.00	200	Horizontal	Pass
3**	4202.579	38.23	54.0	15.77	AV	47.00	200	Horizontal	Pass
4	7437.809	53.14	74.0	20.86	Peak	236.00	100	Horizontal	Pass
4**	7437.809	41.83	54.0	12.17	AV	236.00	100	Horizontal	Pass
5	12519.276	58.59	74.0	15.41	Peak	6.00	400	Horizontal	Pass
5**	12519.276	47.33	54.0	6.67	AV	6.00	400	Horizontal	Pass
6	16146.521	57.28	74.0	16.72	Peak	48.00	100	Horizontal	Pass
6**	16146.521	41.14	54.0	12.86	AV	48.00	100	Horizontal	Pass

11ac40, 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	1566.977	35.63	74.0	38.37	Peak	348.00	100	Vertical	Pass
1**	1566.977	24.15	54.0	29.85	AV	348.00	100	Vertical	Pass
2	2344.375	44.04	74.0	29.96	Peak	335.00	200	Vertical	Pass
2**	2344.375	33.84	54.0	20.16	AV	335.00	200	Vertical	Pass
3	3916.405	42.55	74.0	31.45	Peak	246.00	200	Vertical	Pass
3**	3916.405	37.64	54.0	16.36	AV	246.00	200	Vertical	Pass
4	7678.201	53.30	74.0	20.70	Peak	197.00	300	Vertical	Pass
4**	7678.201	45.10	54.0	8.90	AV	197.00	300	Vertical	Pass
5	12528.995	55.13	74.0	18.87	Peak	133.00	300	Vertical	Pass
5**	12528.995	42.24	54.0	11.76	AV	133.00	300	Vertical	Pass
6	15380.509	51.97	74.0	22.03	Peak	121.00	200	Vertical	Pass
6**	15380.509	41.99	54.0	12.01	AV	121.00	200	Vertical	Pass

11ac80, 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	1510.598	38.37	74.0	35.63	Peak	311.00	100	Horizontal	Pass
1**	1510.598	27.13	54.0	26.87	AV	311.00	100	Horizontal	Pass
2	2349.071	43.74	74.0	30.26	Peak	284.00	400	Horizontal	Pass
2**	2349.071	36.80	54.0	17.20	AV	284.00	400	Horizontal	Pass
3	4207.079	47.00	74.0	27.00	Peak	320.00	200	Horizontal	Pass
3**	4207.079	34.91	54.0	19.09	AV	320.00	200	Horizontal	Pass
4	7430.485	51.74	74.0	22.26	Peak	222.00	100	Horizontal	Pass
4**	7430.485	44.17	54.0	9.83	AV	222.00	100	Horizontal	Pass
5	12520.251	53.91	74.0	20.09	Peak	326.00	300	Horizontal	Pass
5**	12520.251	45.08	54.0	8.92	AV	326.00	300	Horizontal	Pass
6	16148.934	53.26	74.0	20.74	Peak	229.00	300	Horizontal	Pass
6**	16148.934	43.17	54.0	10.83	AV	229.00	300	Horizontal	Pass

11ac80, 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	1566.743	38.15	74.0	35.85	Peak	39.00	400	Vertical	Pass
1**	1566.743	29.73	54.0	24.27	AV	39.00	400	Vertical	Pass
2	2343.931	45.51	74.0	28.49	Peak	245.00	300	Vertical	Pass
2**	2343.931	31.72	54.0	22.28	AV	245.00	300	Vertical	Pass
3	3920.845	46.55	74.0	27.45	Peak	54.00	200	Vertical	Pass
3**	3920.845	37.12	54.0	16.88	AV	54.00	200	Vertical	Pass
4	7683.811	52.69	74.0	21.31	Peak	144.00	100	Vertical	Pass
4**	7683.811	45.95	54.0	8.05	AV	144.00	100	Vertical	Pass
5	12530.051	57.29	74.0	16.71	Peak	104.00	100	Vertical	Pass
5**	12530.051	40.79	54.0	13.21	AV	104.00	100	Vertical	Pass
6	15381.199	54.63	74.0	19.37	Peak	219.00	100	Vertical	Pass
6**	15381.199	47.15	54.0	6.85	AV	219.00	100	Vertical	Pass

11ax20(SU), 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	1510.523	38.02	74.0	35.98	Peak	261.00	400	Horizontal	Pass
1**	1510.523	27.87	54.0	26.13	AV	261.00	400	Horizontal	Pass
2	2351.492	44.39	74.0	29.61	Peak	284.00	200	Horizontal	Pass
2**	2351.492	35.48	54.0	18.52	AV	284.00	200	Horizontal	Pass
3	4208.880	47.06	74.0	26.94	Peak	184.00	200	Horizontal	Pass
3**	4208.880	35.98	54.0	18.02	AV	184.00	200	Horizontal	Pass
4	7432.601	56.55	74.0	17.45	Peak	148.00	400	Horizontal	Pass
4**	7432.601	41.93	54.0	12.07	AV	148.00	400	Horizontal	Pass
5	12516.458	53.69	74.0	20.31	Peak	58.00	300	Horizontal	Pass
5**	12516.458	49.44	54.0	4.56	AV	58.00	300	Horizontal	Pass
6	16149.867	51.64	74.0	22.36	Peak	119.00	300	Horizontal	Pass
6**	16149.867	44.34	54.0	9.66	AV	119.00	300	Horizontal	Pass

11ax20(SU), 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	1566.647	35.12	74.0	38.88	Peak	41.00	400	Vertical	Pass
1**	1566.647	26.97	54.0	27.03	AV	41.00	400	Vertical	Pass
2	2345.744	46.53	74.0	27.47	Peak	273.00	200	Vertical	Pass
2**	2345.744	33.27	54.0	20.73	AV	273.00	200	Vertical	Pass
3	3915.939	43.09	74.0	30.91	Peak	178.00	200	Vertical	Pass
3**	3915.939	34.49	54.0	19.51	AV	178.00	200	Vertical	Pass
4	7679.088	49.85	74.0	24.15	Peak	194.00	300	Vertical	Pass
4**	7679.088	45.62	54.0	8.38	AV	194.00	300	Vertical	Pass
5	12528.325	56.91	74.0	17.09	Peak	146.00	100	Vertical	Pass
5**	12528.325	43.54	54.0	10.46	AV	146.00	100	Vertical	Pass
6	15383.383	54.93	74.0	19.07	Peak	322.00	400	Vertical	Pass
6**	15383.383	41.62	54.0	12.38	AV	322.00	400	Vertical	Pass