

TEST REPORT

Applicant: Hansong(Nanjing) Technology Ltd.
Address: 8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.
Equipment Type: Wireless Module
Model Name: X501-W1R4M16-AA
Brand Name: Platin
FCC ID: XCO-X501
ISED Number: 7756A-X501
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Oct. 21, 2024
Test Date: Oct. 22, 2024 - Nov. 07, 2024
Date of Issue: Nov 21, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 21, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Hansong(Nanjing) Technology Ltd.
Address	8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.

2.2 Manufacturer Information

Manufacturer	Hansong(Nanjing) Technology Ltd.
Address	8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wireless Module
Model Name Under Test	X501-W1R4M16-AA
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	85-2-144701-0
Hardware Version	VP1_1
Software Version	V001
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

Antenna Information:

Antenna Manufacturer	Model	Antenna Type	Antenna Gain
Suzhou Point Positive Electronic Technology Co., Ltd	PCB Antenna	PCB	U-NII-1: 5.07 dBi U-NII-2A: 5.07 dBi U-NII-2C: 5.06 dBi U-NII-3: 4.99 dBi
Suzhou Point Positive Electronic Technology Co., Ltd	RC12WFI0272A1	Dipole	U-NII-1: 3.60 dBi U-NII-2A: 3.60 dBi U-NII-2C: 3.79 dBi U-NII-3: 3.76 dBi

Note: Antenna model RC12WFI0272A1 are alternative antenna, the max gain antenna is chosen for all test.

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz	
Product Type	☒ Mobile ☐ Portable ☐ Fix Location Indoor for IC standard	
Modulation technology	OFDM, OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9 802.11ax up to 600 Mbps	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 12.82 mW U-NII-2A: 24.43 mW U-NII-2C: 31.78 mW U-NII-3: 47.99 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 0 SISO- Antenna 1	PCB Antenna
Antenna Gain	SISO- Antenna 0 SISO- Antenna 1	U-NII-1: 5150 MHz to 5250 MHz: 5.07 dBi U-NII-2A: 5250 MHz to 5350 MHz: 5.07 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.06 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.99 dBi
Total directional gain	For power spectral density(PSD)	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 8.08 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.08 dBi U-NII-2C: 5470 MHz to 5725 MHz: 8.07 dBi

	measurements	U-NII-3: 5725 MHz to 5850 MHz: 8.00 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 5.07 dBi U-NII-2A: 5250 MHz to 5350 MHz: 5.07 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.06 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.99 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}]$ dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 8.08 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.08 dBi U-NII-2C: 5470 MHz to 5725 MHz: 8.07 dBi U-NII-3: 5725 MHz to 5850 MHz: 8.00 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 5.07 dBi U-NII-2A: 5250 MHz to 5350 MHz: 5.07 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.06 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.99 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}]$ dBi
About the Product		The equipment is Wireless Module, intended for used with information technology equipment.

Mode	Antenna		
	SISO-Antenna 0	SISO-Antenna 1	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

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

2.5 Channel List

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

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)/ax(HE20)

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

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

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

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

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

For 802.11ac(VHT80)/ax(HE80)

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

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

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

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

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	122/106	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	122/106	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
6	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	ANNEX A.6	Pass
8	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	N/A ^{Note2}

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	43% to 58%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.6°C to +25.4°C
Working Voltage of the EUT	NV (Normal Voltage)	5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2023.12.27	2024.12.26
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
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	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2022.02.19	2025.02.18

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

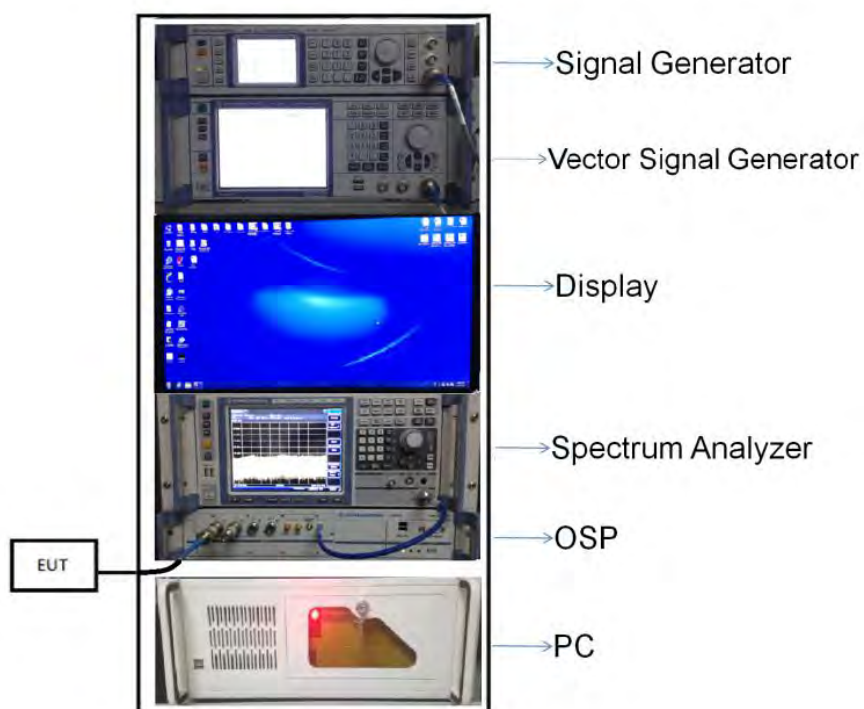
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

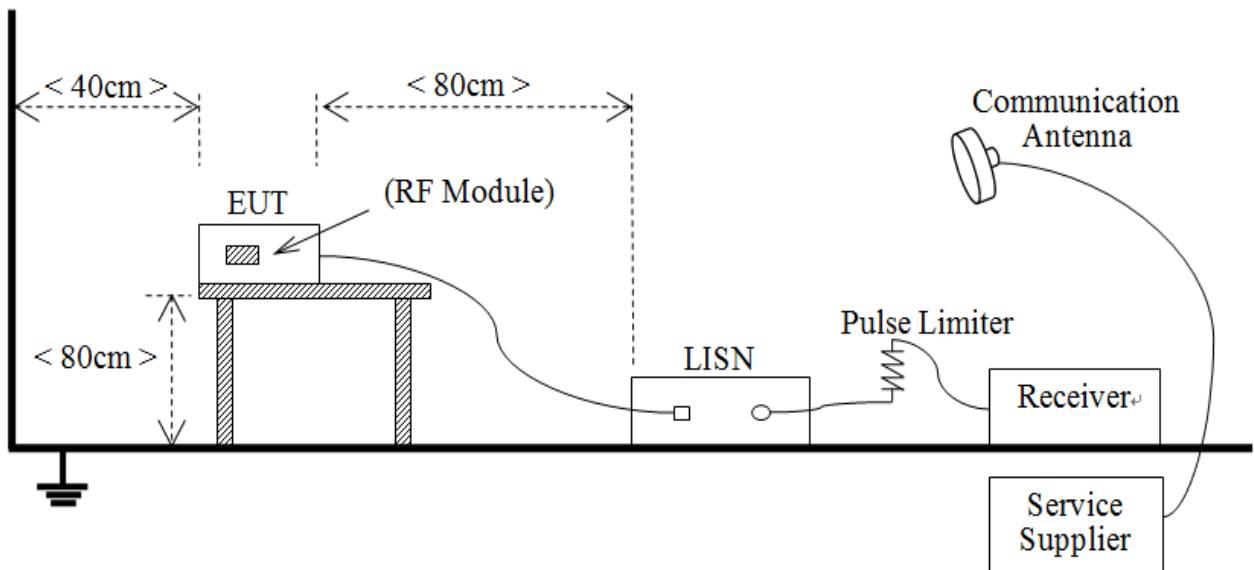
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



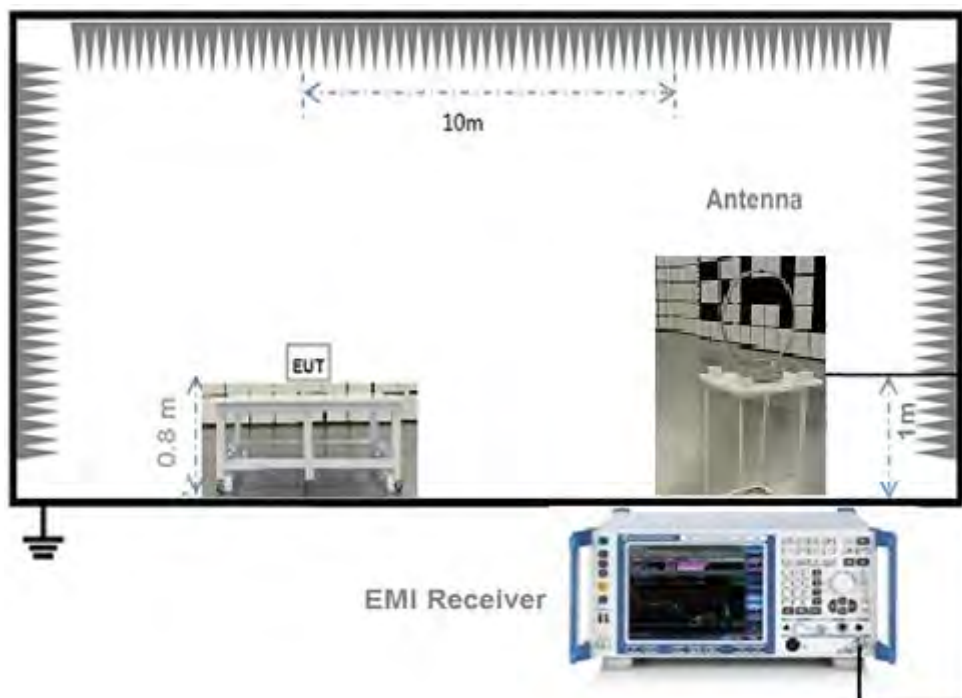
(Diagram 1)

4.5.2 For AC Power Supply Port Test



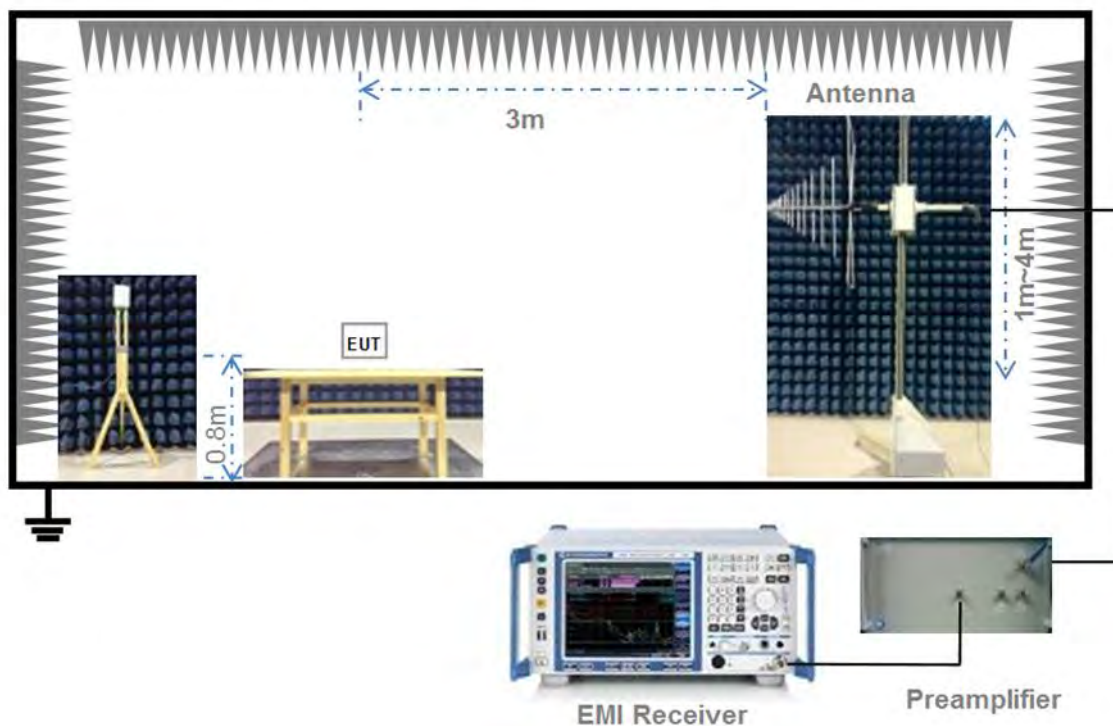
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



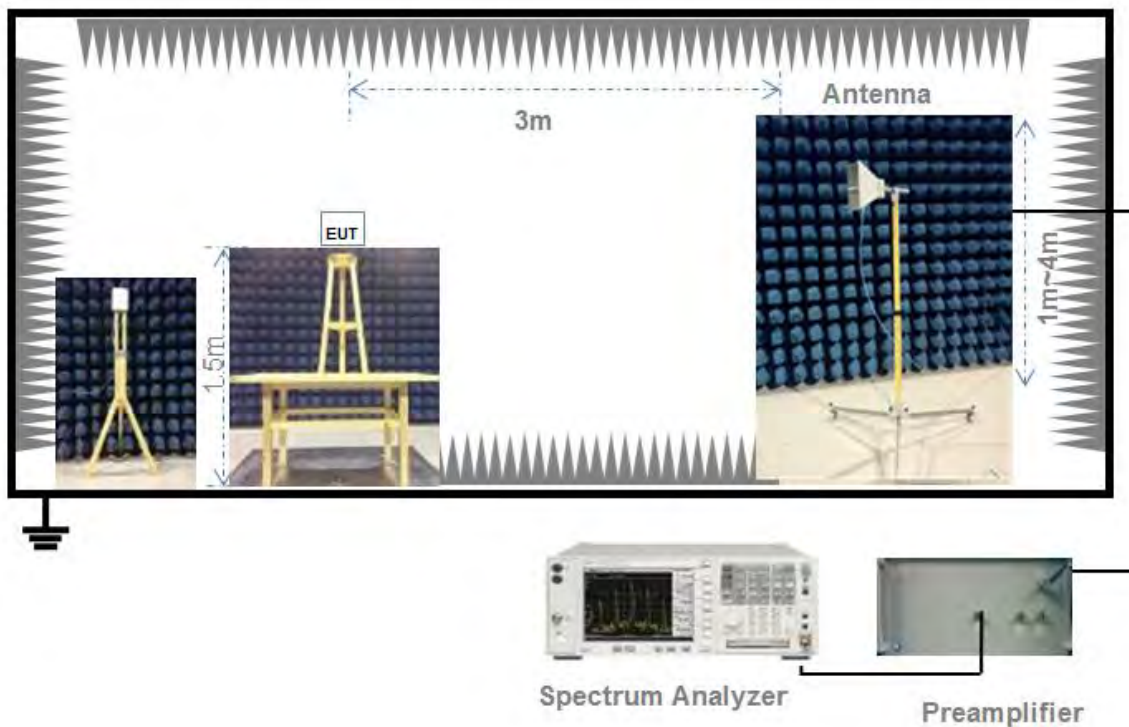
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where “B” is the 99% emissions bandwidth in MHz.	

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

at least a factor of five.

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

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

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

Measurements of duty cycle

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

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

Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

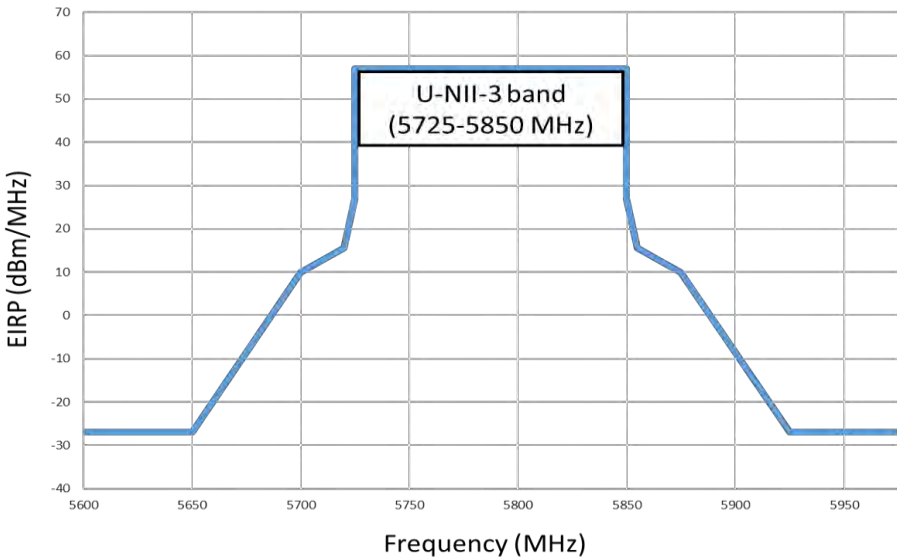
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- c) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- d) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- e) Compare the resultant electric field strength level to the applicable limit.
- f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

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

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.40	1.50	93.25%	0.30
11n(HT20)/11ac(VHT20)	1.32	1.42	92.94%	0.32
11n(HT40)/11ac(VHT40)	0.66	0.76	86.88%	0.61
11ac (VHT80)	0.32	0.43	75.88%	1.20
11ax (HE20) (SU)	1.02	1.12	90.99%	0.41
11ax (HE40) (SU)	0.54	0.64	84.24%	0.75
11ax (HE80) (SU)	0.29	0.39	74.49%	1.28

Test DataSISO-Antenna 0Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.90	12.30	250	Pass
11a	CH44	10.66	11.64	250	Pass
11a	CH48	10.80	12.02	250	Pass
11n (HT20)	CH36	10.88	12.25	250	Pass
11n (HT20)	CH44	10.69	11.72	250	Pass
11n (HT20)	CH48	10.73	11.83	250	Pass
11n (HT40)	CH38	10.41	10.99	250	Pass
11n (HT40)	CH46	10.95	12.45	250	Pass
11ac (VHT20)	CH36	10.98	12.53	250	Pass
11ac (VHT20)	CH44	10.68	11.69	250	Pass
11ac (VHT20)	CH48	10.73	11.83	250	Pass
11ac (VHT40)	CH38	10.29	10.69	250	Pass
11ac (VHT40)	CH46	10.88	12.25	250	Pass
11ac (VHT80)	CH42	10.51	11.25	250	Pass
11ax (HE20) (SU)	CH36	10.68	11.69	250	Pass
11ax (HE20) (SU)	CH44	10.65	11.61	250	Pass
11ax (HE20) (SU)	CH48	10.78	11.97	250	Pass
11ax (HE40) (SU)	CH38	10.83	12.11	250	Pass
11ax (HE40) (SU)	CH46	10.94	12.42	250	Pass
11ax (HE80) (SU)	CH42	10.38	10.91	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	12.08	16.14	250	Pass
11a	CH60	12.35	17.16	250	Pass
11a	CH64	12.73	18.75	250	Pass
11n (HT20)	CH52	12.01	15.89	250	Pass
11n (HT20)	CH60	12.28	16.90	250	Pass
11n (HT20)	CH64	12.84	19.23	250	Pass
11n (HT40)	CH54	12.30	16.98	250	Pass
11n (HT40)	CH62	12.79	19.01	250	Pass
11ac (VHT20)	CH52	11.99	15.81	250	Pass
11ac (VHT20)	CH60	12.30	16.98	250	Pass
11ac (VHT20)	CH64	13.88	24.43	250	Pass
11ac (VHT40)	CH54	12.34	17.14	250	Pass
11ac (VHT40)	CH62	12.72	18.71	250	Pass
11ac (VHT80)	CH58	11.61	14.49	250	Pass
11ax (HE20) (SU)	CH52	11.95	15.67	250	Pass
11ax (HE20) (SU)	CH60	12.32	17.06	250	Pass
11ax (HE20) (SU)	CH64	12.76	18.88	250	Pass
11ax (HE40) (SU)	CH54	12.41	17.42	250	Pass
11ax (HE40) (SU)	CH62	12.65	18.41	250	Pass
11ax (HE80) (SU)	CH58	11.56	14.32	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.40	17.38	250	Pass
11a	CH116	12.00	15.85	250	Pass
11a	CH140	10.17	10.40	250	Pass
11n (HT20)	CH100	12.66	18.45	250	Pass
11n (HT20)	CH116	12.98	19.86	250	Pass
11n (HT20)	CH140	10.52	11.27	250	Pass
11n (HT40)	CH102	11.05	12.74	250	Pass
11n (HT40)	CH118	12.09	16.18	250	Pass
11n (HT40)	CH134	14.71	29.58	250	Pass
11ac (VHT20)	CH100	12.65	18.41	250	Pass
11ac (VHT20)	CH116	11.93	15.60	250	Pass
11ac (VHT20)	CH140	10.72	11.80	250	Pass
11ac (VHT40)	CH102	11.05	12.74	250	Pass
11ac (VHT40)	CH118	12.05	16.03	250	Pass
11ac (VHT40)	CH134	14.54	28.44	250	Pass
11ac (VHT80)	CH106	11.70	14.79	250	Pass
11ac (VHT80)	CH122	13.53	22.54	250	Pass
11ax (HE20) (SU)	CH100	12.41	17.42	250	Pass
11ax (HE20) (SU)	CH116	12.93	19.63	250	Pass
11ax (HE20) (SU)	CH140	10.30	10.72	250	Pass
11ax (HE40) (SU)	CH102	10.39	10.94	250	Pass
11ax (HE40) (SU)	CH118	11.97	15.74	250	Pass
11ax (HE40) (SU)	CH134	14.46	27.93	250	Pass
11ax (HE80) (SU)	CH106	10.42	11.02	250	Pass
11ax (HE80) (SU)	CH122	13.23	21.04	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.30	42.66	1000	Pass
11a	CH157	16.15	41.21	1000	Pass
11a	CH165	16.11	40.83	1000	Pass
11n (HT20)	CH149	16.29	42.56	1000	Pass
11n (HT20)	CH157	16.04	40.18	1000	Pass
11n (HT20)	CH165	15.95	39.36	1000	Pass
11n (HT40)	CH151	16.60	45.71	1000	Pass
11n (HT40)	CH159	16.53	44.98	1000	Pass
11ac (VHT20)	CH149	16.27	42.36	1000	Pass
11ac (VHT20)	CH157	16.01	39.90	1000	Pass
11ac (VHT20)	CH165	15.90	38.90	1000	Pass
11ac (VHT40)	CH151	16.61	45.81	1000	Pass
11ac (VHT40)	CH159	16.52	44.87	1000	Pass
11ac (VHT80)	CH155	14.86	30.62	1000	Pass
11ax (HE20) (SU)	CH149	16.21	41.78	1000	Pass
11ax (HE20) (SU)	CH157	16.06	40.36	1000	Pass
11ax (HE20) (SU)	CH165	15.91	38.99	1000	Pass
11ax (HE40) (SU)	CH151	16.68	46.56	1000	Pass
11ax (HE40) (SU)	CH159	16.53	44.98	1000	Pass
11ax (HE80) (SU)	CH155	13.78	23.88	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	15.97	39.54	171	Pass
11a	CH44	15.73	37.41	171	Pass
11a	CH48	15.87	38.64	170	Pass
11n (HT20)	CH36	15.95	39.36	182	Pass
11n (HT20)	CH44	15.76	37.67	180	Pass
11n (HT20)	CH48	15.80	38.02	180	Pass
11n (HT40)	CH38	15.48	35.32	200	Pass
11n (HT40)	CH46	16.02	39.99	200	Pass
11ac (VHT20)	CH36	16.05	40.27	182	Pass
11ac (VHT20)	CH44	15.75	37.58	180	Pass
11ac (VHT20)	CH48	15.80	38.02	180	Pass
11ac (VHT40)	CH38	15.36	34.36	200	Pass
11ac (VHT40)	CH46	15.95	39.36	200	Pass
11ac (VHT80)	CH42	15.58	36.14	200	Pass
11ax (HE20) (SU)	CH36	15.75	37.58	190	Pass
11ax (HE20) (SU)	CH44	15.72	37.33	190	Pass
11ax (HE20) (SU)	CH48	15.85	38.46	189	Pass
11ax (HE40) (SU)	CH38	15.90	38.90	200	Pass
11ax (HE40) (SU)	CH46	16.01	39.90	200	Pass
11ax (HE80) (SU)	CH42	15.45	35.08	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	17.15	51.88	851	Pass
11a	CH60	17.42	55.14	845	Pass
11a	CH64	17.80	60.26	876	Pass
11n (HT20)	CH52	17.08	51.05	898	Pass
11n (HT20)	CH60	17.35	54.33	923	Pass
11n (HT20)	CH64	17.91	61.80	919	Pass
11n (HT40)	CH54	17.37	54.58	1000	Pass
11n (HT40)	CH62	17.86	61.09	1000	Pass
11ac (VHT20)	CH52	17.06	50.82	905	Pass
11ac (VHT20)	CH60	17.37	54.58	926	Pass
11ac (VHT20)	CH64	18.95	78.52	918	Pass
11ac (VHT40)	CH54	17.41	55.08	1000	Pass
11ac (VHT40)	CH62	17.79	60.12	1000	Pass
11ac (VHT80)	CH58	16.68	46.56	1000	Pass
11ax (HE20) (SU)	CH52	17.02	50.35	952	Pass
11ax (HE20) (SU)	CH60	17.39	54.83	951	Pass
11ax (HE20) (SU)	CH64	17.83	60.67	958	Pass
11ax (HE40) (SU)	CH54	17.48	55.98	1000	Pass
11ax (HE40) (SU)	CH62	17.72	59.16	1000	Pass
11ax (HE80) (SU)	CH58	16.63	46.03	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	17.46	55.72	842	Pass
11a	CH116	17.06	50.82	864	Pass
11a	CH140	15.23	33.34	853	Pass
11n (HT20)	CH100	17.72	59.16	901	Pass
11n (HT20)	CH116	18.04	63.68	921	Pass
11n (HT20)	CH140	15.58	36.14	937	Pass
11n (HT40)	CH102	16.11	40.83	1000	Pass
11n (HT40)	CH118	17.15	51.88	1000	Pass
11n (HT40)	CH134	19.77	94.84	1000	Pass
11ac (VHT20)	CH100	17.71	59.02	896	Pass
11ac (VHT20)	CH116	16.99	50.00	907	Pass
11ac (VHT20)	CH140	15.78	37.84	910	Pass
11ac (VHT40)	CH102	16.11	40.83	1000	Pass
11ac (VHT40)	CH118	17.11	51.40	1000	Pass
11ac (VHT40)	CH134	19.60	91.20	1000	Pass
11ac (VHT80)	CH106	16.76	47.42	1000	Pass
11ac (VHT80)	CH122	18.59	72.28	1000	Pass
11ax (HE20) (SU)	CH100	17.47	55.85	949	Pass
11ax (HE20) (SU)	CH116	17.99	62.95	952	Pass
11ax (HE20) (SU)	CH140	15.36	34.36	955	Pass
11ax (HE40) (SU)	CH102	15.45	35.08	1000	Pass
11ax (HE40) (SU)	CH118	17.03	50.47	1000	Pass
11ax (HE40) (SU)	CH134	19.52	89.54	1000	Pass
11ax (HE80) (SU)	CH106	15.48	35.32	1000	Pass
11ax (HE80) (SU)	CH122	18.29	67.45	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	21.29	134.59	Pass
11a	CH157	21.14	130.02	Pass
11a	CH165	21.10	128.82	Pass
11n (HT20)	CH149	21.28	134.28	Pass
11n (HT20)	CH157	21.03	126.77	Pass
11n (HT20)	CH165	20.94	124.17	Pass
11n (HT40)	CH151	21.59	144.21	Pass
11n (HT40)	CH159	21.52	141.91	Pass
11ac (VHT20)	CH149	21.26	133.66	Pass
11ac (VHT20)	CH157	21.00	125.89	Pass
11ac (VHT20)	CH165	20.89	122.74	Pass
11ac (VHT40)	CH151	21.60	144.54	Pass
11ac (VHT40)	CH159	21.51	141.58	Pass
11ac (VHT80)	CH155	19.85	96.61	Pass
11ax (HE20) (SU)	CH149	21.20	131.83	Pass
11ax (HE20) (SU)	CH157	21.05	127.35	Pass
11ax (HE20) (SU)	CH165	20.90	123.03	Pass
11ax (HE40) (SU)	CH151	21.67	146.89	Pass
11ax (HE40) (SU)	CH159	21.52	141.91	Pass
11ax (HE80) (SU)	CH155	18.77	75.34	Pass

SISO-Antenna 1
Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.85	12.16	250	Pass
11a	CH44	10.36	10.86	250	Pass
11a	CH48	10.60	11.48	250	Pass
11n (HT20)	CH36	10.88	12.25	250	Pass
11n (HT20)	CH44	10.69	11.72	250	Pass
11n (HT20)	CH48	10.43	11.04	250	Pass
11n (HT40)	CH38	10.41	10.99	250	Pass
11n (HT40)	CH46	10.55	11.35	250	Pass
11ac (VHT20)	CH36	10.98	12.53	250	Pass
11ac (VHT20)	CH44	10.49	11.19	250	Pass
11ac (VHT20)	CH48	10.53	11.30	250	Pass
11ac (VHT40)	CH38	9.89	9.75	250	Pass
11ac (VHT40)	CH46	11.08	12.82	250	Pass
11ac (VHT80)	CH42	10.11	10.26	250	Pass
11ax (HE20) (SU)	CH36	10.58	11.43	250	Pass
11ax (HE20) (SU)	CH44	10.75	11.89	250	Pass
11ax (HE20) (SU)	CH48	10.38	10.91	250	Pass
11ax (HE40) (SU)	CH38	10.43	11.04	250	Pass
11ax (HE40) (SU)	CH46	10.74	11.86	250	Pass
11ax (HE80) (SU)	CH42	10.38	10.91	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	11.78	15.07	250	Pass
11a	CH60	12.35	17.16	250	Pass
11a	CH64	12.63	18.32	250	Pass
11n (HT20)	CH52	12.01	15.89	250	Pass
11n (HT20)	CH60	12.28	16.90	250	Pass
11n (HT20)	CH64	12.94	19.68	250	Pass
11n (HT40)	CH54	12.10	16.22	250	Pass
11n (HT40)	CH62	12.49	17.74	250	Pass
11ac (VHT20)	CH52	12.09	16.18	250	Pass
11ac (VHT20)	CH60	12.10	16.22	250	Pass
11ac (VHT20)	CH64	13.68	23.33	250	Pass
11ac (VHT40)	CH54	12.14	16.37	250	Pass
11ac (VHT40)	CH62	12.92	19.59	250	Pass
11ac (VHT80)	CH58	11.21	13.21	250	Pass
11ax (HE20) (SU)	CH52	11.75	14.96	250	Pass
11ax (HE20) (SU)	CH60	12.12	16.29	250	Pass
11ax (HE20) (SU)	CH64	12.96	19.77	250	Pass
11ax (HE40) (SU)	CH54	12.01	15.89	250	Pass
11ax (HE40) (SU)	CH62	12.35	17.18	250	Pass
11ax (HE80) (SU)	CH58	11.36	13.68	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.50	17.78	250	Pass
11a	CH116	11.70	14.79	250	Pass
11a	CH140	10.37	10.89	250	Pass
11n (HT20)	CH100	12.76	18.88	250	Pass
11n (HT20)	CH116	13.08	20.32	250	Pass
11n (HT20)	CH140	10.12	10.28	250	Pass
11n (HT40)	CH102	10.95	12.45	250	Pass
11n (HT40)	CH118	12.29	16.94	250	Pass
11n (HT40)	CH134	14.91	30.97	250	Pass
11ac (VHT20)	CH100	12.65	18.41	250	Pass
11ac (VHT20)	CH116	11.53	14.22	250	Pass
11ac (VHT20)	CH140	10.72	11.80	250	Pass
11ac (VHT40)	CH102	11.15	13.03	250	Pass
11ac (VHT40)	CH118	11.95	15.67	250	Pass
11ac (VHT40)	CH134	14.24	26.55	250	Pass
11ac (VHT80)	CH106	11.70	14.79	250	Pass
11ac (VHT80)	CH122	13.13	20.56	250	Pass
11ax (HE20) (SU)	CH100	12.11	16.26	250	Pass
11ax (HE20) (SU)	CH116	13.03	20.09	250	Pass
11ax (HE20) (SU)	CH140	10.40	10.96	250	Pass
11ax (HE40) (SU)	CH102	10.19	10.45	250	Pass
11ax (HE40) (SU)	CH118	11.57	14.35	250	Pass
11ax (HE40) (SU)	CH134	14.06	25.47	250	Pass
11ax (HE80) (SU)	CH106	10.32	10.76	250	Pass
11ax (HE80) (SU)	CH122	12.93	19.63	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.90	38.90	1000	Pass
11a	CH157	16.15	41.21	1000	Pass
11a	CH165	16.11	40.83	1000	Pass
11n (HT20)	CH149	16.19	41.59	1000	Pass
11n (HT20)	CH157	16.14	41.11	1000	Pass
11n (HT20)	CH165	16.05	40.27	1000	Pass
11n (HT40)	CH151	16.80	47.86	1000	Pass
11n (HT40)	CH159	16.33	42.95	1000	Pass
11ac (VHT20)	CH149	16.37	43.35	1000	Pass
11ac (VHT20)	CH157	16.21	41.78	1000	Pass
11ac (VHT20)	CH165	15.90	38.90	1000	Pass
11ac (VHT40)	CH151	16.21	41.78	1000	Pass
11ac (VHT40)	CH159	16.72	46.99	1000	Pass
11ac (VHT80)	CH155	15.06	32.06	1000	Pass
11ax (HE20) (SU)	CH149	16.11	40.83	1000	Pass
11ax (HE20) (SU)	CH157	16.16	41.30	1000	Pass
11ax (HE20) (SU)	CH165	15.91	38.99	1000	Pass
11ax (HE40) (SU)	CH151	16.68	46.56	1000	Pass
11ax (HE40) (SU)	CH159	16.43	43.95	1000	Pass
11ax (HE80) (SU)	CH155	13.78	23.88	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	15.92	39.08	171	Pass
11a	CH44	15.43	34.91	171	Pass
11a	CH48	15.67	36.90	170	Pass
11n (HT20)	CH36	15.95	39.36	182	Pass
11n (HT20)	CH44	15.76	37.67	180	Pass
11n (HT20)	CH48	15.50	35.48	180	Pass
11n (HT40)	CH38	15.48	35.32	200	Pass
11n (HT40)	CH46	15.62	36.48	200	Pass
11ac (VHT20)	CH36	16.05	40.27	182	Pass
11ac (VHT20)	CH44	15.56	35.97	180	Pass
11ac (VHT20)	CH48	15.60	36.31	180	Pass
11ac (VHT40)	CH38	14.96	31.33	200	Pass
11ac (VHT40)	CH46	16.15	41.21	200	Pass
11ac (VHT80)	CH42	15.18	32.96	200	Pass
11ax (HE20) (SU)	CH36	15.65	36.73	190	Pass
11ax (HE20) (SU)	CH44	15.82	38.19	190	Pass
11ax (HE20) (SU)	CH48	15.45	35.08	189	Pass
11ax (HE40) (SU)	CH38	15.50	35.48	200	Pass
11ax (HE40) (SU)	CH46	15.81	38.11	200	Pass
11ax (HE80) (SU)	CH42	15.45	35.08	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	16.85	48.42	851	Pass
11a	CH60	17.42	55.14	845	Pass
11a	CH64	17.70	58.88	876	Pass
11n (HT20)	CH52	17.08	51.05	898	Pass
11n (HT20)	CH60	17.35	54.33	923	Pass
11n (HT20)	CH64	18.01	63.24	919	Pass
11n (HT40)	CH54	17.17	52.12	1000	Pass
11n (HT40)	CH62	17.56	57.02	1000	Pass
11ac (VHT20)	CH52	17.16	52.00	905	Pass
11ac (VHT20)	CH60	17.17	52.12	926	Pass
11ac (VHT20)	CH64	18.75	74.99	918	Pass
11ac (VHT40)	CH54	17.21	52.60	1000	Pass
11ac (VHT40)	CH62	17.99	62.95	1000	Pass
11ac (VHT80)	CH58	16.28	42.46	1000	Pass
11ax (HE20) (SU)	CH52	16.82	48.08	952	Pass
11ax (HE20) (SU)	CH60	17.19	52.36	951	Pass
11ax (HE20) (SU)	CH64	18.03	63.53	958	Pass
11ax (HE40) (SU)	CH54	17.08	51.05	1000	Pass
11ax (HE40) (SU)	CH62	17.42	55.21	1000	Pass
11ax (HE80) (SU)	CH58	16.43	43.95	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	17.56	57.02	842	Pass
11a	CH116	16.76	47.42	864	Pass
11a	CH140	15.43	34.91	853	Pass
11n (HT20)	CH100	17.82	60.53	901	Pass
11n (HT20)	CH116	18.14	65.16	921	Pass
11n (HT20)	CH140	15.18	32.96	937	Pass
11n (HT40)	CH102	16.01	39.90	1000	Pass
11n (HT40)	CH118	17.35	54.33	1000	Pass
11n (HT40)	CH134	19.97	99.31	1000	Pass
11ac (VHT20)	CH100	17.71	59.02	896	Pass
11ac (VHT20)	CH116	16.59	45.60	907	Pass
11ac (VHT20)	CH140	15.78	37.84	910	Pass
11ac (VHT40)	CH102	16.21	41.78	1000	Pass
11ac (VHT40)	CH118	17.01	50.23	1000	Pass
11ac (VHT40)	CH134	19.30	85.11	1000	Pass
11ac (VHT80)	CH106	16.76	47.42	1000	Pass
11ac (VHT80)	CH122	18.19	65.92	1000	Pass
11ax (HE20) (SU)	CH100	17.17	52.12	949	Pass
11ax (HE20) (SU)	CH116	18.09	64.42	952	Pass
11ax (HE20) (SU)	CH140	15.46	35.16	955	Pass
11ax (HE40) (SU)	CH102	15.25	33.50	1000	Pass
11ax (HE40) (SU)	CH118	16.63	46.03	1000	Pass
11ax (HE40) (SU)	CH134	19.12	81.66	1000	Pass
11ax (HE80) (SU)	CH106	15.38	34.51	1000	Pass
11ax (HE80) (SU)	CH122	17.99	62.95	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	20.89	122.74	Pass
11a	CH157	21.14	130.02	Pass
11a	CH165	21.10	128.82	Pass
11n (HT20)	CH149	21.18	131.22	Pass
11n (HT20)	CH157	21.13	129.72	Pass
11n (HT20)	CH165	21.04	127.06	Pass
11n (HT40)	CH151	21.79	151.01	Pass
11n (HT40)	CH159	21.32	135.52	Pass
11ac (VHT20)	CH149	21.36	136.77	Pass
11ac (VHT20)	CH157	21.20	131.83	Pass
11ac (VHT20)	CH165	20.89	122.74	Pass
11ac (VHT40)	CH151	21.20	131.83	Pass
11ac (VHT40)	CH159	21.71	148.25	Pass
11ac (VHT80)	CH155	20.05	101.16	Pass
11ax (HE20) (SU)	CH149	21.10	128.82	Pass
11ax (HE20) (SU)	CH157	21.15	130.32	Pass
11ax (HE20) (SU)	CH165	20.90	123.03	Pass
11ax (HE40) (SU)	CH151	21.67	146.89	Pass
11ax (HE40) (SU)	CH159	21.42	138.68	Pass
11ax (HE80) (SU)	CH155	18.77	75.34	Pass

MIMO-Antenna 0Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	7.56	5.70	154.88	Pass
11a	CH44	7.66	5.83	154.88	Pass
11a	CH48	7.50	5.62	154.88	Pass
11n (HT20)	CH36	7.78	6.00	250	Pass
11n (HT20)	CH44	7.59	5.74	250	Pass
11n (HT20)	CH48	7.53	5.66	250	Pass
11n (HT40)	CH38	7.11	5.14	250	Pass
11n (HT40)	CH46	7.57	5.71	250	Pass
11ac (VHT20)	CH36	7.68	5.86	250	Pass
11ac (VHT20)	CH44	7.58	5.73	250	Pass
11ac (VHT20)	CH48	7.63	5.79	250	Pass
11ac (VHT40)	CH38	7.39	5.48	250	Pass
11ac (VHT40)	CH46	7.98	6.28	250	Pass
11ac (VHT80)	CH42	7.11	5.14	250	Pass
11ax (HE20) (SU)	CH36	7.28	5.35	250	Pass
11ax (HE20) (SU)	CH44	7.75	5.96	250	Pass
11ax (HE20) (SU)	CH48	7.78	6.00	250	Pass
11ax (HE40) (SU)	CH38	7.53	5.66	250	Pass
11ax (HE40) (SU)	CH46	7.54	5.68	250	Pass
11ax (HE80) (SU)	CH42	7.08	5.11	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	8.98	7.91	154.88	Pass
11a	CH60	9.15	8.21	154.88	Pass
11a	CH64	9.53	8.97	154.88	Pass
11n (HT20)	CH52	8.61	7.26	250	Pass
11n (HT20)	CH60	9.38	8.67	250	Pass
11n (HT20)	CH64	9.84	9.64	250	Pass
11n (HT40)	CH54	9.50	8.91	250	Pass
11n (HT40)	CH62	9.99	9.98	250	Pass
11ac (VHT20)	CH52	8.69	7.40	250	Pass
11ac (VHT20)	CH60	9.30	8.51	250	Pass
11ac (VHT20)	CH64	10.78	11.97	250	Pass
11ac (VHT40)	CH54	9.24	8.39	250	Pass
11ac (VHT40)	CH62	9.32	8.55	250	Pass
11ac (VHT80)	CH58	8.81	7.60	250	Pass
11ax (HE20) (SU)	CH52	8.95	7.85	250	Pass
11ax (HE20) (SU)	CH60	9.32	8.55	250	Pass
11ax (HE20) (SU)	CH64	9.46	8.83	250	Pass
11ax (HE40) (SU)	CH54	9.61	9.14	250	Pass
11ax (HE40) (SU)	CH62	9.85	9.66	250	Pass
11ax (HE80) (SU)	CH58	8.26	6.70	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	9.10	8.13	155.24	Pass
11a	CH116	8.60	7.24	155.24	Pass
11a	CH140	6.97	4.98	155.24	Pass
11n (HT20)	CH100	9.66	9.25	250	Pass
11n (HT20)	CH116	9.78	9.51	250	Pass
11n (HT20)	CH140	7.72	5.92	250	Pass
11n (HT40)	CH102	8.25	6.68	250	Pass
11n (HT40)	CH118	8.99	7.93	250	Pass
11n (HT40)	CH134	11.91	15.52	250	Pass
11ac (VHT20)	CH100	9.25	8.41	250	Pass
11ac (VHT20)	CH116	8.73	7.46	250	Pass
11ac (VHT20)	CH140	7.92	6.19	250	Pass
11ac (VHT40)	CH102	7.95	6.24	250	Pass
11ac (VHT40)	CH118	9.15	8.22	250	Pass
11ac (VHT40)	CH134	11.74	14.93	250	Pass
11ac (VHT80)	CH106	8.90	7.76	250	Pass
11ac (VHT80)	CH122	10.63	11.56	250	Pass
11ax (HE20) (SU)	CH100	9.01	7.96	250	Pass
11ax (HE20) (SU)	CH116	10.13	10.30	250	Pass
11ax (HE20) (SU)	CH140	7.50	5.62	250	Pass
11ax (HE40) (SU)	CH102	6.99	5.00	250	Pass
11ax (HE40) (SU)	CH118	8.57	7.19	250	Pass
11ax (HE40) (SU)	CH134	11.56	14.32	250	Pass
11ax (HE80) (SU)	CH106	7.52	5.65	250	Pass
11ax (HE80) (SU)	CH122	10.33	10.79	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.10	20.42	630.96	Pass
11a	CH157	12.75	18.84	630.96	Pass
11a	CH165	12.91	19.54	630.96	Pass
11n (HT20)	CH149	13.09	20.37	1000	Pass
11n (HT20)	CH157	13.14	20.61	1000	Pass
11n (HT20)	CH165	12.85	19.28	1000	Pass
11n (HT40)	CH151	13.70	23.44	1000	Pass
11n (HT40)	CH159	13.73	23.60	1000	Pass
11ac (VHT20)	CH149	12.97	19.82	1000	Pass
11ac (VHT20)	CH157	12.71	18.66	1000	Pass
11ac (VHT20)	CH165	12.80	19.05	1000	Pass
11ac (VHT40)	CH151	13.81	24.04	1000	Pass
11ac (VHT40)	CH159	13.22	20.99	1000	Pass
11ac (VHT80)	CH155	11.66	14.66	1000	Pass
11ax (HE20) (SU)	CH149	13.01	20.00	1000	Pass
11ax (HE20) (SU)	CH157	12.86	19.32	1000	Pass
11ax (HE20) (SU)	CH165	12.71	18.66	1000	Pass
11ax (HE40) (SU)	CH151	13.48	22.28	1000	Pass
11ax (HE40) (SU)	CH159	13.13	20.56	1000	Pass
11ax (HE80) (SU)	CH155	10.58	11.43	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	12.63	18.32	171	Pass
11a	CH44	12.73	18.75	171	Pass
11a	CH48	12.57	18.07	170	Pass
11n (HT20)	CH36	12.85	19.28	182	Pass
11n (HT20)	CH44	12.66	18.45	180	Pass
11n (HT20)	CH48	12.60	18.20	180	Pass
11n (HT40)	CH38	12.18	16.52	200	Pass
11n (HT40)	CH46	12.64	18.37	200	Pass
11ac (VHT20)	CH36	12.75	18.84	182	Pass
11ac (VHT20)	CH44	12.65	18.41	180	Pass
11ac (VHT20)	CH48	12.70	18.62	180	Pass
11ac (VHT40)	CH38	12.46	17.62	200	Pass
11ac (VHT40)	CH46	13.05	20.18	200	Pass
11ac (VHT80)	CH42	12.18	16.52	200	Pass
11ax (HE20) (SU)	CH36	12.35	17.18	190	Pass
11ax (HE20) (SU)	CH44	12.82	19.14	190	Pass
11ax (HE20) (SU)	CH48	12.85	19.28	189	Pass
11ax (HE40) (SU)	CH38	12.60	18.20	200	Pass
11ax (HE40) (SU)	CH46	12.61	18.24	200	Pass
11ax (HE80) (SU)	CH42	12.15	16.41	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	14.05	25.41	851	Pass
11a	CH60	14.22	26.39	845	Pass
11a	CH64	14.60	28.84	876	Pass
11n (HT20)	CH52	13.68	23.33	898	Pass
11n (HT20)	CH60	14.45	27.86	923	Pass
11n (HT20)	CH64	14.91	30.97	919	Pass
11n (HT40)	CH54	14.57	28.64	1000	Pass
11n (HT40)	CH62	15.06	32.06	1000	Pass
11ac (VHT20)	CH52	13.76	23.77	905	Pass
11ac (VHT20)	CH60	14.37	27.35	926	Pass
11ac (VHT20)	CH64	15.85	38.46	918	Pass
11ac (VHT40)	CH54	14.31	26.98	1000	Pass
11ac (VHT40)	CH62	14.39	27.48	1000	Pass
11ac (VHT80)	CH58	13.88	24.43	1000	Pass
11ax (HE20) (SU)	CH52	14.02	25.23	952	Pass
11ax (HE20) (SU)	CH60	14.39	27.48	951	Pass
11ax (HE20) (SU)	CH64	14.53	28.38	958	Pass
11ax (HE40) (SU)	CH54	14.68	29.38	1000	Pass
11ax (HE40) (SU)	CH62	14.92	31.05	1000	Pass
11ax (HE80) (SU)	CH58	13.33	21.53	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	14.16	26.06	842	Pass
11a	CH116	13.66	23.23	864	Pass
11a	CH140	12.03	15.96	853	Pass
11n (HT20)	CH100	14.72	29.65	901	Pass
11n (HT20)	CH116	14.84	30.48	921	Pass
11n (HT20)	CH140	12.78	18.97	937	Pass
11n (HT40)	CH102	13.31	21.43	1000	Pass
11n (HT40)	CH118	14.05	25.41	1000	Pass
11n (HT40)	CH134	16.97	49.77	1000	Pass
11ac (VHT20)	CH100	14.31	26.98	896	Pass
11ac (VHT20)	CH116	13.79	23.93	907	Pass
11ac (VHT20)	CH140	12.98	19.86	910	Pass
11ac (VHT40)	CH102	13.01	20.00	1000	Pass
11ac (VHT40)	CH118	14.21	26.36	1000	Pass
11ac (VHT40)	CH134	16.80	47.86	1000	Pass
11ac (VHT80)	CH106	13.96	24.89	1000	Pass
11ac (VHT80)	CH122	15.69	37.07	1000	Pass
11ax (HE20) (SU)	CH100	14.07	25.53	949	Pass
11ax (HE20) (SU)	CH116	15.19	33.04	952	Pass
11ax (HE20) (SU)	CH140	12.56	18.03	955	Pass
11ax (HE40) (SU)	CH102	12.05	16.03	1000	Pass
11ax (HE40) (SU)	CH118	13.63	23.07	1000	Pass
11ax (HE40) (SU)	CH134	16.62	45.92	1000	Pass
11ax (HE80) (SU)	CH106	12.58	18.11	1000	Pass
11ax (HE80) (SU)	CH122	15.39	34.59	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	18.09	64.42	Pass
11a	CH157	17.74	59.43	Pass
11a	CH165	17.90	61.66	Pass
11n (HT20)	CH149	18.08	64.27	Pass
11n (HT20)	CH157	18.13	65.01	Pass
11n (HT20)	CH165	17.84	60.81	Pass
11n (HT40)	CH151	18.69	73.96	Pass
11n (HT40)	CH159	18.72	74.47	Pass
11ac (VHT20)	CH149	17.96	62.52	Pass
11ac (VHT20)	CH157	17.70	58.88	Pass
11ac (VHT20)	CH165	17.79	60.12	Pass
11ac (VHT40)	CH151	18.80	75.86	Pass
11ac (VHT40)	CH159	18.21	66.22	Pass
11ac (VHT80)	CH155	16.65	46.24	Pass
11ax (HE20) (SU)	CH149	18.00	63.10	Pass
11ax (HE20) (SU)	CH157	17.85	60.95	Pass
11ax (HE20) (SU)	CH165	17.70	58.88	Pass
11ax (HE40) (SU)	CH151	18.47	70.31	Pass
11ax (HE40) (SU)	CH159	18.12	64.86	Pass
11ax (HE80) (SU)	CH155	15.57	36.06	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	7.54	5.68	154.88	Pass
11a	CH44	7.06	5.08	154.88	Pass
11a	CH48	7.40	5.50	154.88	Pass
11n (HT20)	CH36	7.88	6.14	250	Pass
11n (HT20)	CH44	7.59	5.74	250	Pass
11n (HT20)	CH48	7.63	5.79	250	Pass
11n (HT40)	CH38	7.31	5.38	250	Pass
11n (HT40)	CH46	7.35	5.43	250	Pass
11ac (VHT20)	CH36	7.88	6.14	250	Pass
11ac (VHT20)	CH44	7.78	6.00	250	Pass
11ac (VHT20)	CH48	7.73	5.93	250	Pass
11ac (VHT40)	CH38	6.69	4.67	250	Pass
11ac (VHT40)	CH46	7.98	6.28	250	Pass
11ac (VHT80)	CH42	6.71	4.69	250	Pass
11ax (HE20) (SU)	CH36	7.68	5.86	250	Pass
11ax (HE20) (SU)	CH44	7.45	5.56	250	Pass
11ax (HE20) (SU)	CH48	7.18	5.22	250	Pass
11ax (HE40) (SU)	CH38	7.13	5.16	250	Pass
11ax (HE40) (SU)	CH46	7.84	6.08	250	Pass
11ax (HE80) (SU)	CH42	6.98	4.99	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	8.98	7.91	154.88	Pass
11a	CH60	9.45	8.80	154.88	Pass
11a	CH64	9.83	9.62	154.88	Pass
11n (HT20)	CH52	8.61	7.26	250	Pass
11n (HT20)	CH60	8.88	7.73	250	Pass
11n (HT20)	CH64	9.84	9.64	250	Pass
11n (HT40)	CH54	9.00	7.94	250	Pass
11n (HT40)	CH62	9.19	8.30	250	Pass
11ac (VHT20)	CH52	8.69	7.40	250	Pass
11ac (VHT20)	CH60	8.90	7.76	250	Pass
11ac (VHT20)	CH64	10.38	10.91	250	Pass
11ac (VHT40)	CH54	8.74	7.48	250	Pass
11ac (VHT40)	CH62	10.12	10.28	250	Pass
11ac (VHT80)	CH58	8.41	6.93	250	Pass
11ax (HE20) (SU)	CH52	8.35	6.84	250	Pass
11ax (HE20) (SU)	CH60	9.32	8.55	250	Pass
11ax (HE20) (SU)	CH64	10.06	10.14	250	Pass
11ax (HE40) (SU)	CH54	9.01	7.96	250	Pass
11ax (HE40) (SU)	CH62	9.25	8.41	250	Pass
11ax (HE80) (SU)	CH58	8.46	7.01	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	9.60	9.12	155.24	Pass
11a	CH116	8.30	6.76	155.24	Pass
11a	CH140	7.17	5.21	155.24	Pass
11n (HT20)	CH100	9.56	9.04	250	Pass
11n (HT20)	CH116	9.98	9.95	250	Pass
11n (HT20)	CH140	6.72	4.70	250	Pass
11n (HT40)	CH102	8.15	6.53	250	Pass
11n (HT40)	CH118	9.29	8.49	250	Pass
11n (HT40)	CH134	12.11	16.26	250	Pass
11ac (VHT20)	CH100	9.85	9.66	250	Pass
11ac (VHT20)	CH116	8.13	6.50	250	Pass
11ac (VHT20)	CH140	7.92	6.19	250	Pass
11ac (VHT40)	CH102	7.95	6.24	250	Pass
11ac (VHT40)	CH118	8.85	7.67	250	Pass
11ac (VHT40)	CH134	11.04	12.71	250	Pass
11ac (VHT80)	CH106	8.60	7.24	250	Pass
11ac (VHT80)	CH122	10.13	10.30	250	Pass
11ax (HE20) (SU)	CH100	9.01	7.96	250	Pass
11ax (HE20) (SU)	CH116	10.13	10.30	250	Pass
11ax (HE20) (SU)	CH140	7.50	5.62	250	Pass
11ax (HE40) (SU)	CH102	6.89	4.89	250	Pass
11ax (HE40) (SU)	CH118	8.17	6.56	250	Pass
11ax (HE40) (SU)	CH134	10.86	12.19	250	Pass
11ax (HE80) (SU)	CH106	7.02	5.04	250	Pass
11ax (HE80) (SU)	CH122	10.03	10.07	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	12.60	18.20	630.96	Pass
11a	CH157	12.85	19.28	630.96	Pass
11a	CH165	13.21	20.94	630.96	Pass
11n (HT20)	CH149	12.89	19.45	1000	Pass
11n (HT20)	CH157	12.84	19.23	1000	Pass
11n (HT20)	CH165	12.75	18.84	1000	Pass
11n (HT40)	CH151	13.90	24.55	1000	Pass
11n (HT40)	CH159	13.53	22.54	1000	Pass
11ac (VHT20)	CH149	13.57	22.75	1000	Pass
11ac (VHT20)	CH157	13.31	21.43	1000	Pass
11ac (VHT20)	CH165	12.80	19.05	1000	Pass
11ac (VHT40)	CH151	13.41	21.93	1000	Pass
11ac (VHT40)	CH159	13.62	23.01	1000	Pass
11ac (VHT80)	CH155	12.06	16.07	1000	Pass
11ax (HE20) (SU)	CH149	13.01	20.00	1000	Pass
11ax (HE20) (SU)	CH157	12.76	18.88	1000	Pass
11ax (HE20) (SU)	CH165	12.81	19.10	1000	Pass
11ax (HE40) (SU)	CH151	13.48	22.28	1000	Pass
11ax (HE40) (SU)	CH159	13.03	20.09	1000	Pass
11ax (HE80) (SU)	CH155	10.88	12.25	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	12.61	18.24	171	Pass
11a	CH44	12.13	16.33	171	Pass
11a	CH48	12.47	17.66	170	Pass
11n (HT20)	CH36	12.95	19.72	182	Pass
11n (HT20)	CH44	12.66	18.45	180	Pass
11n (HT20)	CH48	12.70	18.62	180	Pass
11n (HT40)	CH38	12.38	17.30	200	Pass
11n (HT40)	CH46	12.42	17.46	200	Pass
11ac (VHT20)	CH36	12.95	19.72	182	Pass
11ac (VHT20)	CH44	12.85	19.28	180	Pass
11ac (VHT20)	CH48	12.80	19.05	180	Pass
11ac (VHT40)	CH38	11.76	15.00	200	Pass
11ac (VHT40)	CH46	13.05	20.18	200	Pass
11ac (VHT80)	CH42	11.78	15.07	200	Pass
11ax (HE20) (SU)	CH36	12.75	18.84	190	Pass
11ax (HE20) (SU)	CH44	12.52	17.86	190	Pass
11ax (HE20) (SU)	CH48	12.25	16.79	189	Pass
11ax (HE40) (SU)	CH38	12.20	16.60	200	Pass
11ax (HE40) (SU)	CH46	12.91	19.54	200	Pass
11ax (HE80) (SU)	CH42	12.05	16.03	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	14.05	25.41	851	Pass
11a	CH60	14.52	28.28	845	Pass
11a	CH64	14.90	30.90	876	Pass
11n (HT20)	CH52	13.68	23.33	898	Pass
11n (HT20)	CH60	13.95	24.83	923	Pass
11n (HT20)	CH64	14.91	30.97	919	Pass
11n (HT40)	CH54	14.07	25.53	1000	Pass
11n (HT40)	CH62	14.26	26.67	1000	Pass
11ac (VHT20)	CH52	13.76	23.77	905	Pass
11ac (VHT20)	CH60	13.97	24.95	926	Pass
11ac (VHT20)	CH64	15.45	35.08	918	Pass
11ac (VHT40)	CH54	13.81	24.04	1000	Pass
11ac (VHT40)	CH62	15.19	33.04	1000	Pass
11ac (VHT80)	CH58	13.48	22.28	1000	Pass
11ax (HE20) (SU)	CH52	13.42	21.98	952	Pass
11ax (HE20) (SU)	CH60	14.39	27.48	951	Pass
11ax (HE20) (SU)	CH64	15.13	32.58	958	Pass
11ax (HE40) (SU)	CH54	14.08	25.59	1000	Pass
11ax (HE40) (SU)	CH62	14.32	27.04	1000	Pass
11ax (HE80) (SU)	CH58	13.53	22.54	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	14.66	29.24	842	Pass
11a	CH116	13.36	21.68	864	Pass
11a	CH140	12.23	16.71	853	Pass
11n (HT20)	CH100	14.62	28.97	901	Pass
11n (HT20)	CH116	15.04	31.92	921	Pass
11n (HT20)	CH140	11.78	15.07	937	Pass
11n (HT40)	CH102	13.21	20.94	1000	Pass
11n (HT40)	CH118	14.35	27.23	1000	Pass
11n (HT40)	CH134	17.17	52.12	1000	Pass
11ac (VHT20)	CH100	14.91	30.97	896	Pass
11ac (VHT20)	CH116	13.19	20.84	907	Pass
11ac (VHT20)	CH140	12.98	19.86	910	Pass
11ac (VHT40)	CH102	13.01	20.00	1000	Pass
11ac (VHT40)	CH118	13.91	24.60	1000	Pass
11ac (VHT40)	CH134	16.10	40.74	1000	Pass
11ac (VHT80)	CH106	13.66	23.23	1000	Pass
11ac (VHT80)	CH122	15.19	33.04	1000	Pass
11ax (HE20) (SU)	CH100	14.07	25.53	949	Pass
11ax (HE20) (SU)	CH116	15.19	33.04	952	Pass
11ax (HE20) (SU)	CH140	12.56	18.03	955	Pass
11ax (HE40) (SU)	CH102	11.95	15.67	1000	Pass
11ax (HE40) (SU)	CH118	13.23	21.04	1000	Pass
11ax (HE40) (SU)	CH134	15.92	39.08	1000	Pass
11ax (HE80) (SU)	CH106	12.08	16.14	1000	Pass
11ax (HE80) (SU)	CH122	15.09	32.28	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	17.59	57.41	Pass
11a	CH157	17.84	60.81	Pass
11a	CH165	18.20	66.07	Pass
11n (HT20)	CH149	17.88	61.38	Pass
11n (HT20)	CH157	17.83	60.67	Pass
11n (HT20)	CH165	17.74	59.43	Pass
11n (HT40)	CH151	18.89	77.45	Pass
11n (HT40)	CH159	18.52	71.12	Pass
11ac (VHT20)	CH149	18.56	71.78	Pass
11ac (VHT20)	CH157	18.30	67.61	Pass
11ac (VHT20)	CH165	17.79	60.12	Pass
11ac (VHT40)	CH151	18.40	69.18	Pass
11ac (VHT40)	CH159	18.61	72.61	Pass
11ac (VHT80)	CH155	17.05	50.70	Pass
11ax (HE20) (SU)	CH149	18.00	63.10	Pass
11ax (HE20) (SU)	CH157	17.75	59.57	Pass
11ax (HE20) (SU)	CH165	17.80	60.26	Pass
11ax (HE40) (SU)	CH151	18.47	70.31	Pass
11ax (HE40) (SU)	CH159	18.02	63.39	Pass
11ax (HE80) (SU)	CH155	15.87	38.64	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.56	11.38	154.88	Pass
11a	CH44	10.38	10.92	154.88	Pass
11a	CH48	10.46	11.12	154.88	Pass
11n (HT20)	CH36	10.84	12.14	250	Pass
11n (HT20)	CH44	10.60	11.48	250	Pass
11n (HT20)	CH48	10.59	11.46	250	Pass
11n (HT40)	CH38	10.22	10.52	250	Pass
11n (HT40)	CH46	10.47	11.15	250	Pass
11ac (VHT20)	CH36	10.79	12.00	250	Pass
11ac (VHT20)	CH44	10.69	11.73	250	Pass
11ac (VHT20)	CH48	10.69	11.72	250	Pass
11ac (VHT40)	CH38	10.06	10.15	250	Pass
11ac (VHT40)	CH46	10.99	12.56	250	Pass
11ac (VHT80)	CH42	9.92	9.83	250	Pass
11ax (HE20) (SU)	CH36	10.49	11.21	250	Pass
11ax (HE20) (SU)	CH44	10.61	11.52	250	Pass
11ax (HE20) (SU)	CH48	10.50	11.22	250	Pass
11ax (HE40) (SU)	CH38	10.34	10.83	250	Pass
11ax (HE40) (SU)	CH46	10.70	11.76	250	Pass
11ax (HE80) (SU)	CH42	10.04	10.09	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	11.99	15.81	154.88	Pass
11a	CH60	12.31	17.01	154.88	Pass
11a	CH64	12.69	18.59	154.88	Pass
11n (HT20)	CH52	11.62	14.52	250	Pass
11n (HT20)	CH60	12.15	16.40	250	Pass
11n (HT20)	CH64	12.85	19.28	250	Pass
11n (HT40)	CH54	12.27	16.86	250	Pass
11n (HT40)	CH62	12.62	18.28	250	Pass
11ac (VHT20)	CH52	11.70	14.79	250	Pass
11ac (VHT20)	CH60	12.11	16.27	250	Pass
11ac (VHT20)	CH64	13.59	22.88	250	Pass
11ac (VHT40)	CH54	12.01	15.88	250	Pass
11ac (VHT40)	CH62	12.75	18.83	250	Pass
11ac (VHT80)	CH58	11.62	14.54	250	Pass
11ax (HE20) (SU)	CH52	11.67	14.69	250	Pass
11ax (HE20) (SU)	CH60	12.33	17.10	250	Pass
11ax (HE20) (SU)	CH64	12.78	18.97	250	Pass
11ax (HE40) (SU)	CH54	12.33	17.10	250	Pass
11ax (HE40) (SU)	CH62	12.57	18.07	250	Pass
11ax (HE80) (SU)	CH58	11.37	13.71	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.37	17.25	155.24	Pass
11a	CH116	11.46	14.01	155.24	Pass
11a	CH140	10.08	10.19	155.24	Pass
11n (HT20)	CH100	12.62	18.28	250	Pass
11n (HT20)	CH116	12.89	19.46	250	Pass
11n (HT20)	CH140	10.26	10.61	250	Pass
11n (HT40)	CH102	11.21	13.21	250	Pass
11n (HT40)	CH118	12.15	16.42	250	Pass
11n (HT40)	CH134	15.02	31.78	250	Pass
11ac (VHT20)	CH100	12.57	18.07	250	Pass
11ac (VHT20)	CH116	11.45	13.97	250	Pass
11ac (VHT20)	CH140	10.93	12.39	250	Pass
11ac (VHT40)	CH102	10.96	12.47	250	Pass
11ac (VHT40)	CH118	12.01	15.90	250	Pass
11ac (VHT40)	CH134	14.41	27.63	250	Pass
11ac (VHT80)	CH106	11.76	15.01	250	Pass
11ac (VHT80)	CH122	13.40	21.86	250	Pass
11ax (HE20) (SU)	CH100	12.02	15.92	250	Pass
11ax (HE20) (SU)	CH116	13.14	20.61	250	Pass
11ax (HE20) (SU)	CH140	10.51	11.25	250	Pass
11ax (HE40) (SU)	CH102	9.95	9.89	250	Pass
11ax (HE40) (SU)	CH118	11.38	13.76	250	Pass
11ax (HE40) (SU)	CH134	14.23	26.51	250	Pass
11ax (HE80) (SU)	CH106	10.29	10.68	250	Pass
11ax (HE80) (SU)	CH122	13.19	20.86	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.87	38.61	630.96	Pass
11a	CH157	15.81	38.11	630.96	Pass
11a	CH165	16.07	40.48	630.96	Pass
11n (HT20)	CH149	16.00	39.82	1000	Pass
11n (HT20)	CH157	16.00	39.84	1000	Pass
11n (HT20)	CH165	15.81	38.11	1000	Pass
11n (HT40)	CH151	16.81	47.99	1000	Pass
11n (HT40)	CH159	16.64	46.15	1000	Pass
11ac (VHT20)	CH149	16.29	42.57	1000	Pass
11ac (VHT20)	CH157	16.03	40.09	1000	Pass
11ac (VHT20)	CH165	15.81	38.11	1000	Pass
11ac (VHT40)	CH151	16.62	45.97	1000	Pass
11ac (VHT40)	CH159	16.43	44.00	1000	Pass
11ac (VHT80)	CH155	14.87	30.72	1000	Pass
11ax (HE20) (SU)	CH149	16.02	40.00	1000	Pass
11ax (HE20) (SU)	CH157	15.82	38.20	1000	Pass
11ax (HE20) (SU)	CH165	15.77	37.76	1000	Pass
11ax (HE40) (SU)	CH151	16.49	44.57	1000	Pass
11ax (HE40) (SU)	CH159	16.09	40.65	1000	Pass
11ax (HE80) (SU)	CH155	13.74	23.67	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	15.63	36.56	171	Pass
11a	CH44	15.45	35.08	171	Pass
11a	CH48	15.53	35.73	170	Pass
11n (HT20)	CH36	15.91	39.00	182	Pass
11n (HT20)	CH44	15.67	36.90	180	Pass
11n (HT20)	CH48	15.66	36.82	180	Pass
11n (HT40)	CH38	15.29	33.82	250	Pass
11n (HT40)	CH46	15.54	35.82	250	Pass
11ac (VHT20)	CH36	15.86	38.56	182	Pass
11ac (VHT20)	CH44	15.76	37.68	180	Pass
11ac (VHT20)	CH48	15.76	37.68	180	Pass
11ac (VHT40)	CH38	15.13	32.62	250	Pass
11ac (VHT40)	CH46	16.06	40.37	250	Pass
11ac (VHT80)	CH42	14.99	31.59	250	Pass
11ax (HE20) (SU)	CH36	15.56	36.02	190	Pass
11ax (HE20) (SU)	CH44	15.68	37.01	190	Pass
11ax (HE20) (SU)	CH48	15.57	36.06	189	Pass
11ax (HE40) (SU)	CH38	15.41	34.79	250	Pass
11ax (HE40) (SU)	CH46	15.77	37.78	250	Pass
11ax (HE80) (SU)	CH42	15.11	32.44	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	17.06	50.82	851	Pass
11a	CH60	17.38	54.68	845	Pass
11a	CH64	17.76	59.74	876	Pass
11n (HT20)	CH52	16.69	46.67	898	Pass
11n (HT20)	CH60	17.22	52.69	923	Pass
11n (HT20)	CH64	17.92	61.95	919	Pass
11n (HT40)	CH54	17.34	54.17	1000	Pass
11n (HT40)	CH62	17.69	58.73	1000	Pass
11ac (VHT20)	CH52	16.77	47.54	905	Pass
11ac (VHT20)	CH60	17.18	52.30	926	Pass
11ac (VHT20)	CH64	18.66	73.53	918	Pass
11ac (VHT40)	CH54	17.08	51.02	1000	Pass
11ac (VHT40)	CH62	17.82	60.52	1000	Pass
11ac (VHT80)	CH58	16.69	46.72	1000	Pass
11ax (HE20) (SU)	CH52	16.74	47.21	952	Pass
11ax (HE20) (SU)	CH60	17.40	54.96	951	Pass
11ax (HE20) (SU)	CH64	17.85	60.96	958	Pass
11ax (HE40) (SU)	CH54	17.40	54.96	1000	Pass
11ax (HE40) (SU)	CH62	17.64	58.09	1000	Pass
11ax (HE80) (SU)	CH58	16.44	44.07	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	17.43	55.30	842	Pass
11a	CH116	16.52	44.90	864	Pass
11a	CH140	15.14	32.67	853	Pass
11n (HT20)	CH100	17.68	58.62	901	Pass
11n (HT20)	CH116	17.95	62.39	921	Pass
11n (HT20)	CH140	15.32	34.03	937	Pass
11n (HT40)	CH102	16.27	42.37	1000	Pass
11n (HT40)	CH118	17.21	52.64	1000	Pass
11n (HT40)	CH134	20.08	101.89	1000	Pass
11ac (VHT20)	CH100	17.63	57.95	896	Pass
11ac (VHT20)	CH116	16.51	44.78	907	Pass
11ac (VHT20)	CH140	15.99	39.72	910	Pass
11ac (VHT40)	CH102	16.02	40.00	1000	Pass
11ac (VHT40)	CH118	17.07	50.97	1000	Pass
11ac (VHT40)	CH134	19.47	88.60	1000	Pass
11ac (VHT80)	CH106	16.82	48.12	1000	Pass
11ac (VHT80)	CH122	18.46	70.11	1000	Pass
11ax (HE20) (SU)	CH100	17.08	51.05	949	Pass
11ax (HE20) (SU)	CH116	18.20	66.07	952	Pass
11ax (HE20) (SU)	CH140	15.57	36.06	955	Pass
11ax (HE40) (SU)	CH102	15.01	31.70	1000	Pass
11ax (HE40) (SU)	CH118	16.44	44.11	1000	Pass
11ax (HE40) (SU)	CH134	19.29	85.00	1000	Pass
11ax (HE80) (SU)	CH106	15.35	34.26	1000	Pass
11ax (HE80) (SU)	CH122	18.25	66.88	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	20.86	121.83	Pass
11a	CH157	20.80	120.24	Pass
11a	CH165	21.06	127.73	Pass
11n (HT20)	CH149	20.99	125.64	Pass
11n (HT20)	CH157	20.99	125.69	Pass
11n (HT20)	CH165	20.80	120.24	Pass
11n (HT40)	CH151	21.80	151.41	Pass
11n (HT40)	CH159	21.63	145.59	Pass
11ac (VHT20)	CH149	21.28	134.30	Pass
11ac (VHT20)	CH157	21.02	126.49	Pass
11ac (VHT20)	CH165	20.80	120.23	Pass
11ac (VHT40)	CH151	21.61	145.04	Pass
11ac (VHT40)	CH159	21.42	138.83	Pass
11ac (VHT80)	CH155	19.86	96.94	Pass
11ax (HE20) (SU)	CH149	21.01	126.19	Pass
11ax (HE20) (SU)	CH157	20.81	120.52	Pass
11ax (HE20) (SU)	CH165	20.76	119.14	Pass
11ax (HE40) (SU)	CH151	21.48	140.61	Pass
11ax (HE40) (SU)	CH159	21.08	128.25	Pass
11ax (HE80) (SU)	CH155	18.73	74.69	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ24A0634-602 Data Part 1.pdf”.

Note²: All antenna were pre tested, but only the worst case has been reported in this report.

Note³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

SISO-Antenna 0

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	28.53	17.06
11a	CH44	28.46	17.10
11a	CH48	28.53	17.02
11n (HT20)	CH36	34.10	18.20
11n (HT20)	CH44	27.81	18.03
11n (HT20)	CH48	27.42	17.98
11n (HT40)	CH38	79.21	37.02
11n (HT40)	CH46	80.00	37.03
11ac (VHT20)	CH36	34.74	18.24
11ac (VHT20)	CH44	28.84	17.99
11ac (VHT20)	CH48	27.90	17.96
11ac (VHT40)	CH38	76.39	39.76
11ac (VHT40)	CH46	79.94	37.07
11ac (VHT80)	CH42	156.90	76.60
11ax (HE20) (SU)	CH36	25.62	19.05
11ax (HE20) (SU)	CH44	23.55	18.98
11ax (HE20) (SU)	CH48	23.47	18.95
11ax (HE40) (SU)	CH38	78.02	37.95
11ax (HE40) (SU)	CH46	76.00	38.00
11ax (HE80) (SU)	CH42	109.50	77.55

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	27.51	16.97
11a	CH60	23.93	16.86
11a	CH64	32.42	17.49
11n (HT20)	CH52	30.84	17.93
11n (HT20)	CH60	37.02	18.41
11n (HT20)	CH64	36.18	18.33
11n (HT40)	CH54	80.00	36.90
11n (HT40)	CH62	70.44	36.53
11ac (VHT20)	CH52	27.87	18.05
11ac (VHT20)	CH60	37.10	18.48
11ac (VHT20)	CH64	37.86	18.32
11ac (VHT40)	CH54	78.43	36.98
11ac (VHT40)	CH62	66.85	36.60
11ac (VHT80)	CH58	151.20	76.59
11ax (HE20) (SU)	CH52	25.66	19.00
11ax (HE20) (SU)	CH60	24.02	18.98
11ax (HE20) (SU)	CH64	34.22	19.11
11ax (HE40) (SU)	CH54	74.42	37.97
11ax (HE40) (SU)	CH62	73.79	37.98
11ax (HE80) (SU)	CH58	159.50	76.97

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.74	16.81
11a	CH116	30.34	17.25
11a	CH140	29.08	17.01
11n (HT20)	CH100	28.42	17.98
11n (HT20)	CH116	37.33	18.38
11n (HT20)	CH140	37.80	18.70
11n (HT40)	CH102	72.80	36.60
11n (HT40)	CH118	78.48	36.68
11n (HT40)	CH134	80.00	38.11
11ac (VHT20)	CH100	23.15	17.87
11ac (VHT20)	CH116	32.99	18.09
11ac (VHT20)	CH140	33.65	18.15
11ac (VHT40)	CH102	69.57	36.68
11ac (VHT40)	CH118	79.77	36.68
11ac (VHT40)	CH134	80.00	37.65
11ac (VHT80)	CH106	156.80	76.61
11ac (VHT80)	CH122	158.30	76.74
11ax (HE20) (SU)	CH100	21.51	18.94
11ax (HE20) (SU)	CH116	27.53	19.00
11ax (HE20) (SU)	CH140	27.75	19.06
11ax (HE40) (SU)	CH102	60.37	37.76
11ax (HE40) (SU)	CH118	76.44	37.87
11ax (HE40) (SU)	CH134	79.29	38.12
11ax (HE80) (SU)	CH106	127.70	77.58
11ax (HE80) (SU)	CH122	129.20	77.51

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	29.98	17.04
11a	CH157	33.79	17.52
11a	CH165	25.60	17.01
11n (HT20)	CH149	35.91	18.47
11n (HT20)	CH157	35.77	18.39
11n (HT20)	CH165	31.93	18.04
11n (HT40)	CH151	80.00	39.90
11n (HT40)	CH159	79.88	41.79
11ac (VHT20)	CH149	36.88	18.36
11ac (VHT20)	CH157	36.49	18.37
11ac (VHT20)	CH165	29.98	18.03
11ac (VHT40)	CH151	80.00	39.87
11ac (VHT40)	CH159	80.00	41.83
11ac (VHT80)	CH155	160.00	89.98
11ax (HE20) (SU)	CH149	35.02	19.15
11ax (HE20) (SU)	CH157	34.88	19.16
11ax (HE20) (SU)	CH165	28.22	18.99
11ax (HE40) (SU)	CH151	79.43	38.69
11ax (HE40) (SU)	CH159	78.43	40.73
11ax (HE80) (SU)	CH155	160.00	83.55

A.3 6 dB Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ24A0634-602 Data Part 2.pdf”.

Note²: All antenna were pre tested, but only the worst case has been reported in this report.

Note³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

SISO-Antenna 0

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.10	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n (HT20)	CH149	16.90	500.00	Pass
11n (HT20)	CH157	17.30	500.00	Pass
11n (HT20)	CH165	17.70	500.00	Pass
11n (HT40)	CH151	36.50	500.00	Pass
11n (HT40)	CH159	36.20	500.00	Pass
11ac (VHT20)	CH149	17.20	500.00	Pass
11ac (VHT20)	CH157	16.90	500.00	Pass
11ac (VHT20)	CH165	17.20	500.00	Pass
11ac (VHT40)	CH151	36.50	500.00	Pass
11ac (VHT40)	CH159	36.30	500.00	Pass
11ac (VHT80)	CH155	76.00	500.00	Pass
11ax (HE20) (SU)	CH149	17.10	500.00	Pass
11ax (HE20) (SU)	CH157	17.50	500.00	Pass
11ax (HE20) (SU)	CH165	18.00	500.00	Pass
11ax (HE40) (SU)	CH151	37.70	500.00	Pass
11ax (HE40) (SU)	CH159	37.50	500.00	Pass
11ax (HE80) (SU)	CH155	77.40	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: BL-SZ24A0634-602 Data Part 3.pdf”.

Note²: All antenna were pre tested, but only the worst case has been reported in this report.

Note³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

SISO-Antenna 0

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	0.49	8.92	Pass
11a	CH44	0.20	8.92	Pass
11a	CH48	0.13	8.92	Pass
11n (HT20)	CH36	0.35	11.00	Pass
11n (HT20)	CH44	-0.12	11.00	Pass
11n (HT20)	CH48	-0.07	11.00	Pass
11n (HT40)	CH38	-4.81	11.00	Pass
11n (HT40)	CH46	-4.14	11.00	Pass
11ac (VHT20)	CH36	0.41	11.00	Pass
11ac (VHT20)	CH44	-0.10	11.00	Pass
11ac (VHT20)	CH48	-0.06	11.00	Pass
11ac (VHT40)	CH38	-4.75	11.00	Pass
11ac (VHT40)	CH46	-4.13	11.00	Pass
11ac (VHT80)	CH42	-7.90	11.00	Pass
11ax (HE20) (SU)	CH36	0.42	11.00	Pass
11ax (HE20) (SU)	CH44	-0.06	11.00	Pass
11ax (HE20) (SU)	CH48	0.13	11.00	Pass
11ax (HE40) (SU)	CH38	-3.95	11.00	Pass
11ax (HE40) (SU)	CH46	-4.29	11.00	Pass
11ax (HE80) (SU)	CH42	-7.54	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	1.58	8.92	Pass
11a	CH60	1.73	8.92	Pass
11a	CH64	0.81	8.92	Pass
11n (HT20)	CH52	1.24	11.00	Pass
11n (HT20)	CH60	1.52	11.00	Pass
11n (HT20)	CH64	0.63	11.00	Pass
11n (HT40)	CH54	-2.65	11.00	Pass
11n (HT40)	CH62	-3.69	11.00	Pass
11ac (VHT20)	CH52	1.25	11.00	Pass
11ac (VHT20)	CH60	1.44	11.00	Pass
11ac (VHT20)	CH64	1.59	11.00	Pass
11ac (VHT40)	CH54	-2.70	11.00	Pass
11ac (VHT40)	CH62	-3.68	11.00	Pass
11ac (VHT80)	CH58	-7.74	11.00	Pass
11ax (HE20) (SU)	CH52	1.15	11.00	Pass
11ax (HE20) (SU)	CH60	1.50	11.00	Pass
11ax (HE20) (SU)	CH64	0.51	11.00	Pass
11ax (HE40) (SU)	CH54	-2.79	11.00	Pass
11ax (HE40) (SU)	CH62	-3.73	11.00	Pass
11ax (HE80) (SU)	CH58	-7.39	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	2.88	8.93	Pass
11a	CH116	1.81	8.93	Pass
11a	CH140	1.09	8.93	Pass
11n (HT20)	CH100	1.57	11.00	Pass
11n (HT20)	CH116	2.71	11.00	Pass
11n (HT20)	CH140	-0.31	11.00	Pass
11n (HT40)	CH102	-4.26	11.00	Pass
11n (HT40)	CH118	-2.49	11.00	Pass
11n (HT40)	CH134	-0.30	11.00	Pass
11ac (VHT20)	CH100	1.57	11.00	Pass
11ac (VHT20)	CH116	1.51	11.00	Pass
11ac (VHT20)	CH140	-0.22	11.00	Pass
11ac (VHT40)	CH102	-4.27	11.00	Pass
11ac (VHT40)	CH118	-2.50	11.00	Pass
11ac (VHT40)	CH134	-0.62	11.00	Pass
11ac (VHT80)	CH106	-6.32	11.00	Pass
11ac (VHT80)	CH122	-4.48	11.00	Pass
11ax (HE20) (SU)	CH100	1.74	11.00	Pass
11ax (HE20) (SU)	CH116	2.58	11.00	Pass
11ax (HE20) (SU)	CH140	-0.51	11.00	Pass
11ax (HE40) (SU)	CH102	-4.34	11.00	Pass
11ax (HE40) (SU)	CH118	-2.90	11.00	Pass
11ax (HE40) (SU)	CH134	-0.68	11.00	Pass
11ax (HE80) (SU)	CH106	-6.95	11.00	Pass
11ax (HE80) (SU)	CH122	-4.26	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	3.41	28.00	Pass
11a	CH157	3.01	28.00	Pass
11a	CH165	2.90	28.00	Pass
11n (HT20)	CH149	3.08	30.00	Pass
11n (HT20)	CH157	2.71	30.00	Pass
11n (HT20)	CH165	2.64	30.00	Pass
11n (HT40)	CH151	-1.06	30.00	Pass
11n (HT40)	CH159	-0.74	30.00	Pass
11ac (VHT20)	CH149	3.05	30.00	Pass
11ac (VHT20)	CH157	2.57	30.00	Pass
11ac (VHT20)	CH165	2.52	30.00	Pass
11ac (VHT40)	CH151	-1.06	30.00	Pass
11ac (VHT40)	CH159	-0.85	30.00	Pass
11ac (VHT80)	CH155	-7.01	30.00	Pass
11ax (HE20) (SU)	CH149	3.06	30.00	Pass
11ax (HE20) (SU)	CH157	2.62	30.00	Pass
11ax (HE20) (SU)	CH165	2.49	30.00	Pass
11ax (HE40) (SU)	CH151	-0.91	30.00	Pass
11ax (HE40) (SU)	CH159	-1.01	30.00	Pass
11ax (HE80) (SU)	CH155	-7.50	30.00	Pass

E.I.R.P PSD

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	E.I.R.P PSD (dBm/MHz)	E.I.R.P Limit (dBm/MHz)	Verdict
11a	CH36	5.56	10.00	Pass
11a	CH44	5.27	10.00	Pass
11a	CH48	5.20	10.00	Pass
11n (HT20)	CH36	5.42	10.00	Pass
11n (HT20)	CH44	4.95	10.00	Pass
11n (HT20)	CH48	5.00	10.00	Pass
11n (HT40)	CH38	0.26	10.00	Pass
11n (HT40)	CH46	0.93	10.00	Pass
11ac (VHT20)	CH36	5.48	10.00	Pass
11ac (VHT20)	CH44	4.97	10.00	Pass
11ac (VHT20)	CH48	5.01	10.00	Pass
11ac (VHT40)	CH38	0.32	10.00	Pass
11ac (VHT40)	CH46	0.94	10.00	Pass
11ac (VHT80)	CH42	-2.83	10.00	Pass
11ax (HE20) (SU)	CH36	5.49	10.00	Pass
11ax (HE20) (SU)	CH44	5.01	10.00	Pass
11ax (HE20) (SU)	CH48	5.20	10.00	Pass
11ax (HE40) (SU)	CH38	1.12	10.00	Pass
11ax (HE40) (SU)	CH46	0.78	10.00	Pass
11ax (HE80) (SU)	CH42	-2.47	10.00	Pass

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/MHz)	Verdict
11a	CH52	6.65	Pass
11a	CH60	6.80	Pass
11a	CH64	5.88	Pass
11n (HT20)	CH52	6.31	Pass
11n (HT20)	CH60	6.59	Pass
11n (HT20)	CH64	5.70	Pass
11n (HT40)	CH54	2.42	Pass
11n (HT40)	CH62	1.38	Pass
11ac (VHT20)	CH52	6.32	Pass
11ac (VHT20)	CH60	6.51	Pass
11ac (VHT20)	CH64	6.66	Pass
11ac (VHT40)	CH54	2.37	Pass
11ac (VHT40)	CH62	1.39	Pass
11ac (VHT80)	CH58	-2.67	Pass
11ax (HE20) (SU)	CH52	6.22	Pass
11ax (HE20) (SU)	CH60	6.57	Pass
11ax (HE20) (SU)	CH64	5.58	Pass
11ax (HE40) (SU)	CH54	2.28	Pass
11ax (HE40) (SU)	CH62	1.34	Pass
11ax (HE80) (SU)	CH58	-2.32	Pass

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/MHz)	Verdict
11a	CH100	7.94	Pass
11a	CH116	6.87	Pass
11a	CH140	6.15	Pass
11n (HT20)	CH100	6.63	Pass
11n (HT20)	CH116	7.77	Pass
11n (HT20)	CH140	4.75	Pass
11n (HT40)	CH102	0.80	Pass
11n (HT40)	CH118	2.57	Pass
11n (HT40)	CH134	4.76	Pass
11ac (VHT20)	CH100	6.63	Pass
11ac (VHT20)	CH116	6.57	Pass
11ac (VHT20)	CH140	4.84	Pass
11ac (VHT40)	CH102	0.79	Pass
11ac (VHT40)	CH118	2.56	Pass
11ac (VHT40)	CH134	4.44	Pass
11ac (VHT80)	CH106	-1.26	Pass
11ac (VHT80)	CH122	0.58	Pass
11ax (HE20) (SU)	CH100	6.80	Pass
11ax (HE20) (SU)	CH116	7.64	Pass
11ax (HE20) (SU)	CH140	4.55	Pass
11ax (HE40) (SU)	CH102	0.72	Pass
11ax (HE40) (SU)	CH118	2.16	Pass
11ax (HE40) (SU)	CH134	4.38	Pass
11ax (HE80) (SU)	CH106	-1.89	Pass
11ax (HE80) (SU)	CH122	0.80	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/500kHz)	Verdict
11a	CH149	8.40	Pass
11a	CH157	8.00	Pass
11a	CH165	7.89	Pass
11n (HT20)	CH149	8.07	Pass
11n (HT20)	CH157	7.70	Pass
11n (HT20)	CH165	7.63	Pass
11n (HT40)	CH151	3.93	Pass
11n (HT40)	CH159	4.25	Pass
11ac (VHT20)	CH149	8.04	Pass
11ac (VHT20)	CH157	7.56	Pass
11ac (VHT20)	CH165	7.51	Pass
11ac (VHT40)	CH151	3.93	Pass
11ac (VHT40)	CH159	4.14	Pass
11ac (VHT80)	CH155	-2.02	Pass
11ax (HE20) (SU)	CH149	8.05	Pass
11ax (HE20) (SU)	CH157	7.61	Pass
11ax (HE20) (SU)	CH165	7.48	Pass
11ax (HE40) (SU)	CH151	4.08	Pass
11ax (HE40) (SU)	CH159	3.98	Pass
11ax (HE80) (SU)	CH155	-2.51	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.

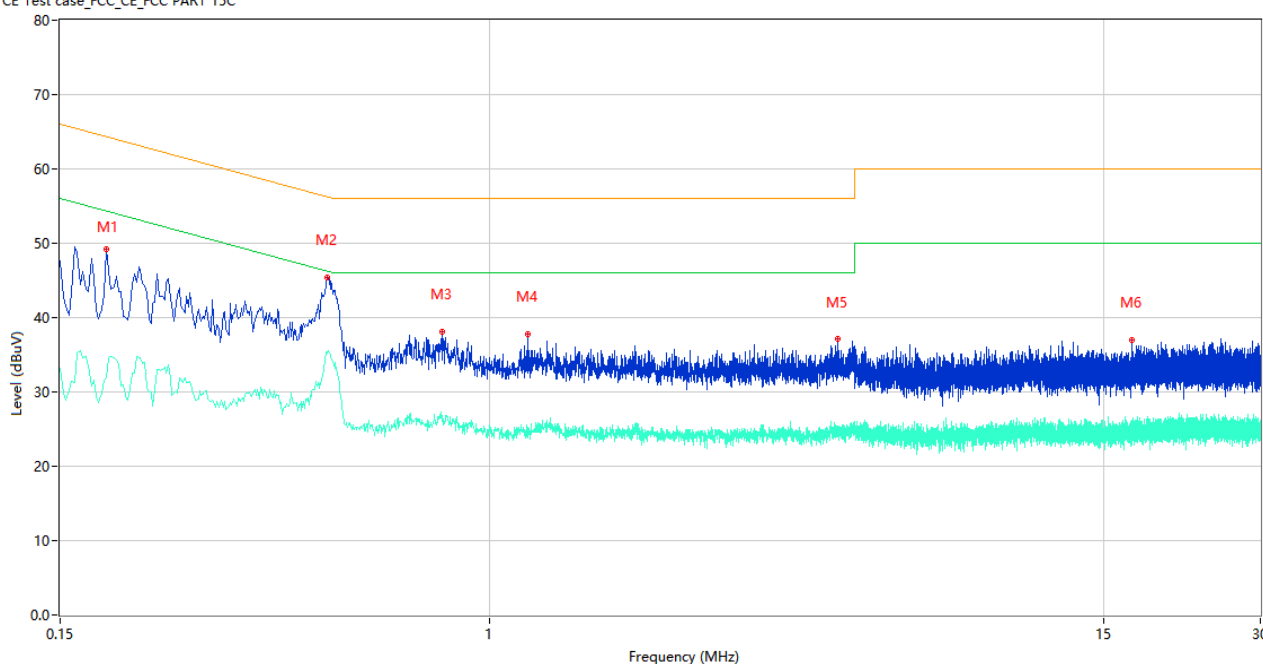
Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PCB Antenna

PHASE L

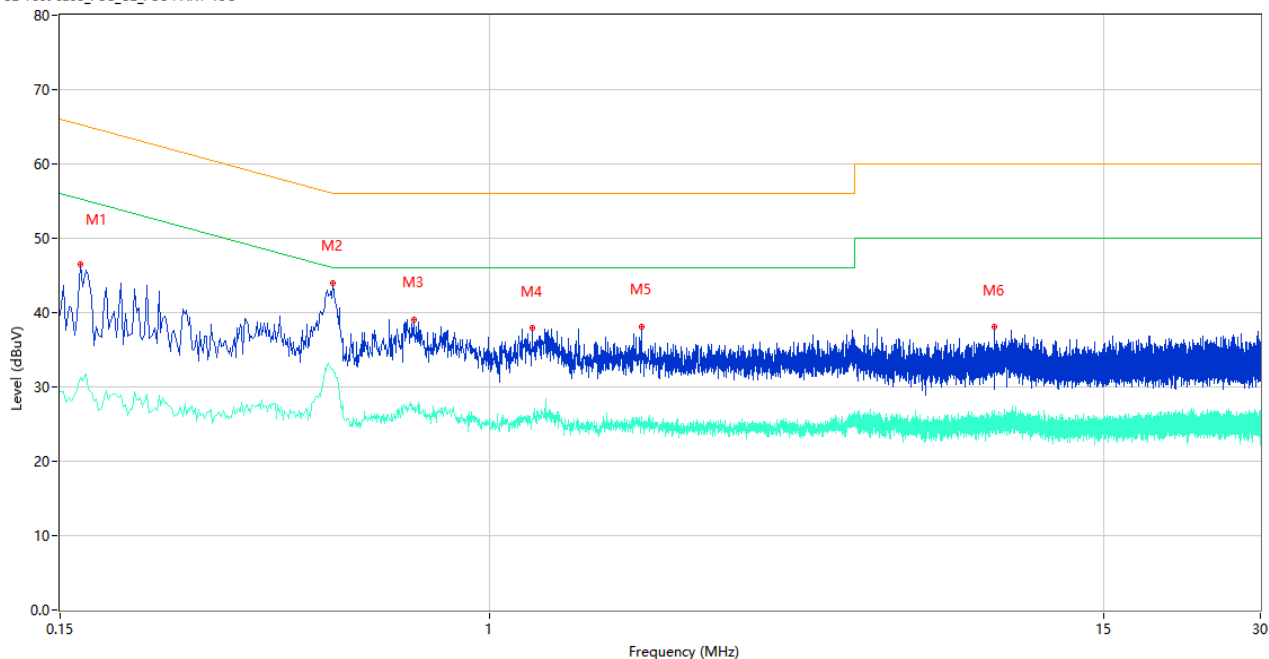
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.184	49.13	9.78	64.30	15.17	Peak	L	Pass
1**	0.184	31.84	9.78	54.30	22.46	AV	L	Pass
2	0.488	45.44	9.99	56.20	10.76	Peak	L	Pass
2**	0.488	35.28	9.99	46.20	10.92	AV	L	Pass
3	0.812	38.10	10.55	56.00	17.90	Peak	L	Pass
3**	0.812	26.01	10.55	46.00	19.99	AV	L	Pass
4	1.180	37.82	10.09	56.00	18.18	Peak	L	Pass
4**	1.180	25.28	10.09	46.00	20.72	AV	L	Pass
5	4.636	37.11	10.29	56.00	18.89	Peak	L	Pass
5**	4.636	25.46	10.29	46.00	20.54	AV	L	Pass
6	17.032	37.05	10.69	60.00	22.95	Peak	L	Pass
6**	17.032	26.11	10.69	50.00	23.89	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C

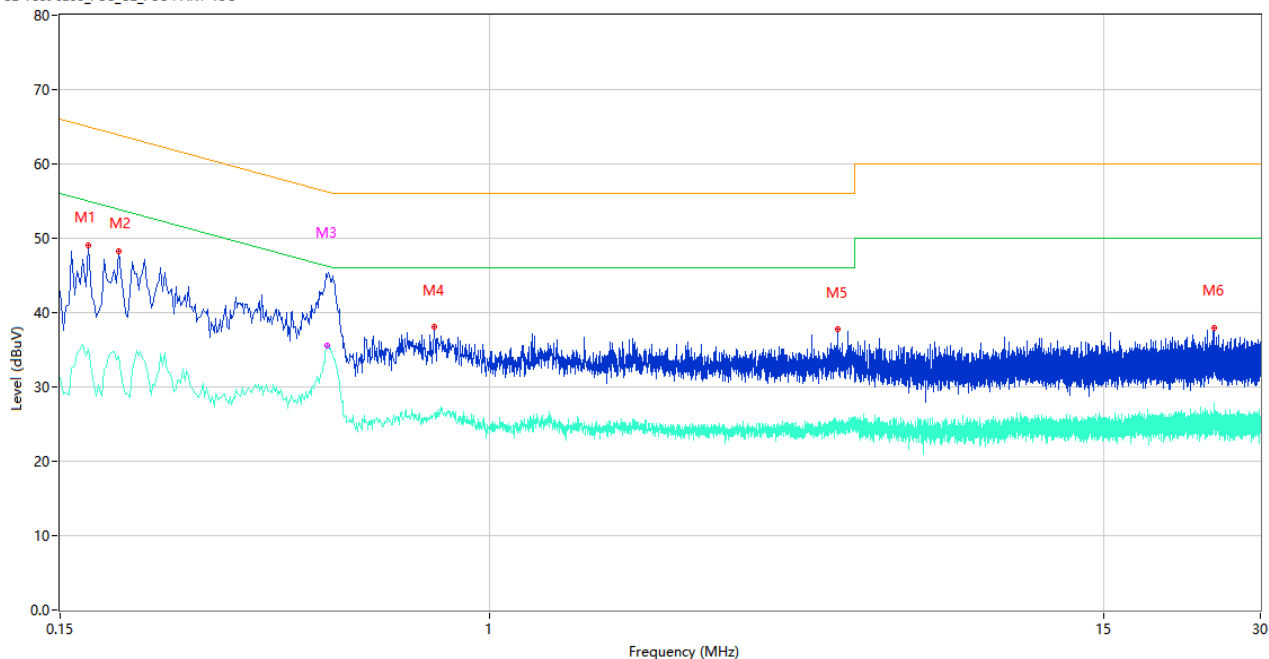


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	46.51	9.78	65.26	18.75	Peak	N	Pass
1**	0.164	31.27	9.78	55.26	23.99	AV	N	Pass
2	0.500	44.00	9.98	56.00	12.00	Peak	N	Pass
2**	0.500	32.35	9.98	46.00	13.65	AV	N	Pass
3	0.714	39.11	10.52	56.00	16.89	Peak	N	Pass
3**	0.714	26.85	10.52	46.00	19.15	AV	N	Pass
4	1.206	37.86	9.98	56.00	18.14	Peak	N	Pass
4**	1.206	25.51	9.98	46.00	20.49	AV	N	Pass
5	1.950	38.13	10.17	56.00	17.87	Peak	N	Pass
5**	1.950	25.63	10.17	46.00	20.37	AV	N	Pass
6	9.252	38.07	10.37	60.00	21.93	Peak	N	Pass
6**	9.252	25.35	10.37	50.00	24.65	AV	N	Pass

Dipole Antenna

PHASE L

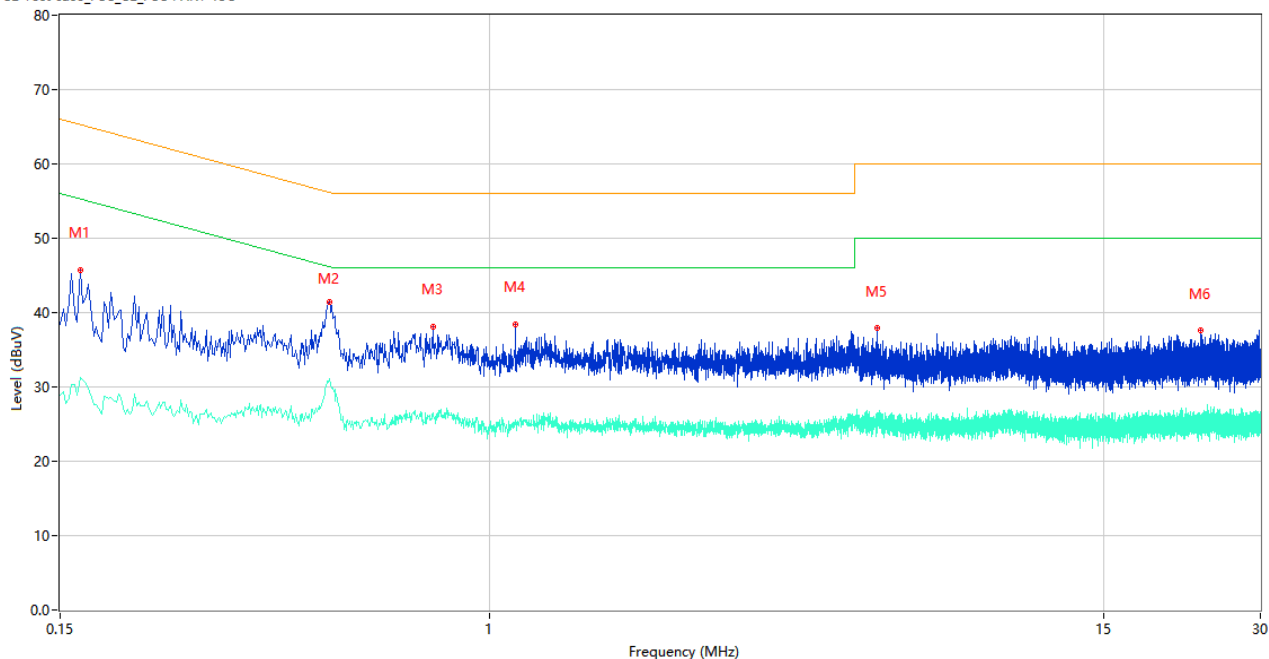
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	49.11	9.78	64.96	15.85	Peak	L	Pass
1**	0.170	35.11	9.78	54.96	19.85	AV	L	Pass
2	0.194	48.29	9.77	63.86	15.57	Peak	L	Pass
2**	0.194	34.11	9.77	53.86	19.75	AV	L	Pass
3	0.488	44.78	9.99	56.20	11.42	Peak	L	Pass
3**	0.488	35.59	9.99	46.20	10.61	AV	L	Pass
4	0.782	38.04	10.40	56.00	17.96	Peak	L	Pass
4**	0.782	26.30	10.40	46.00	19.70	AV	L	Pass
5	4.634	37.74	10.31	56.00	18.26	Peak	L	Pass
5**	4.634	25.30	10.31	46.00	20.70	AV	L	Pass
6	24.460	38.01	10.96	60.00	21.99	Peak	L	Pass
6**	24.460	24.41	10.96	50.00	25.59	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	0.164	45.73	9.78	65.26	19.53	Peak	N	Pass
1**	0.164	31.34	9.78	55.26	23.92	AV	N	Pass
2	0.492	41.48	9.99	56.13	14.65	Peak	N	Pass
2**	0.492	31.19	9.99	46.13	14.94	AV	N	Pass
3	0.778	38.13	10.38	56.00	17.87	Peak	N	Pass
3**	0.778	26.48	10.38	46.00	19.52	AV	N	Pass
4	1.120	38.42	10.17	56.00	17.58	Peak	N	Pass
4**	1.120	25.25	10.17	46.00	20.75	AV	N	Pass
5	5.534	37.87	10.49	60.00	22.13	Peak	N	Pass
5**	5.534	26.23	10.49	50.00	23.77	AV	N	Pass
6	23.020	37.61	10.87	60.00	22.39	Peak	N	Pass
6**	23.020	25.45	10.87	50.00	24.55	AV	N	Pass

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

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

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

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

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

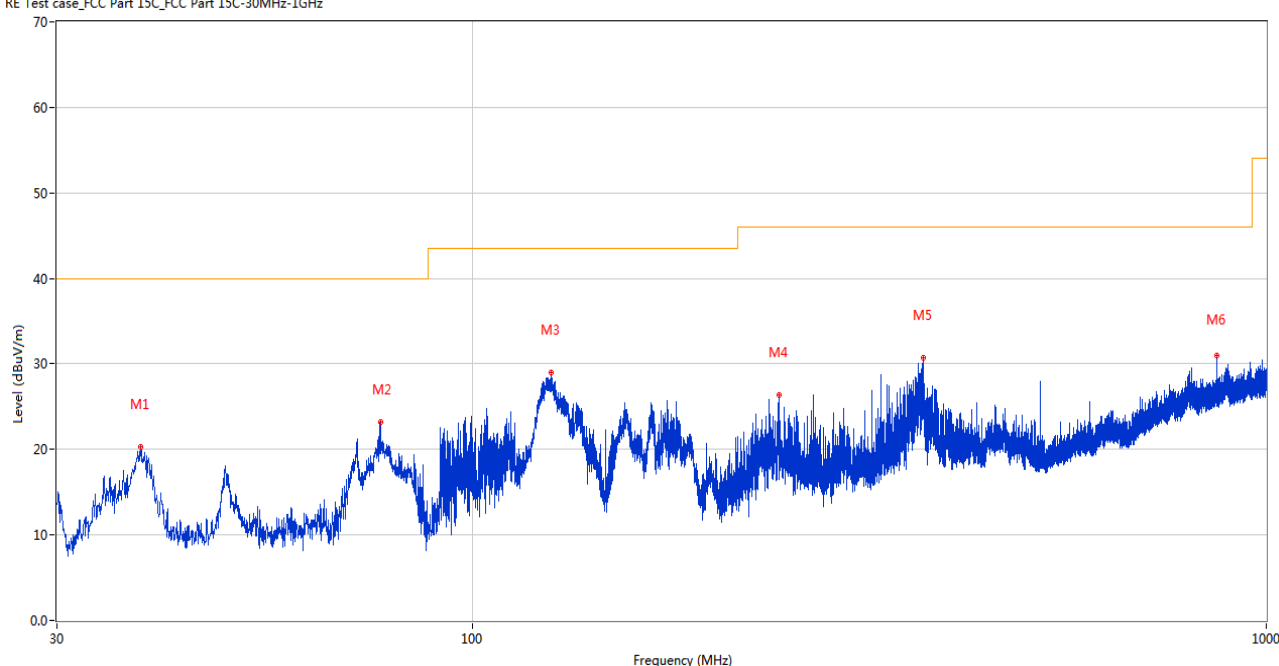
Note ⁵: For Multiple transmitter output, the quantity $10 \log (NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding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

Test Data and Plots

PCB Antenna

30 MHz to 1 GHz, ANT H

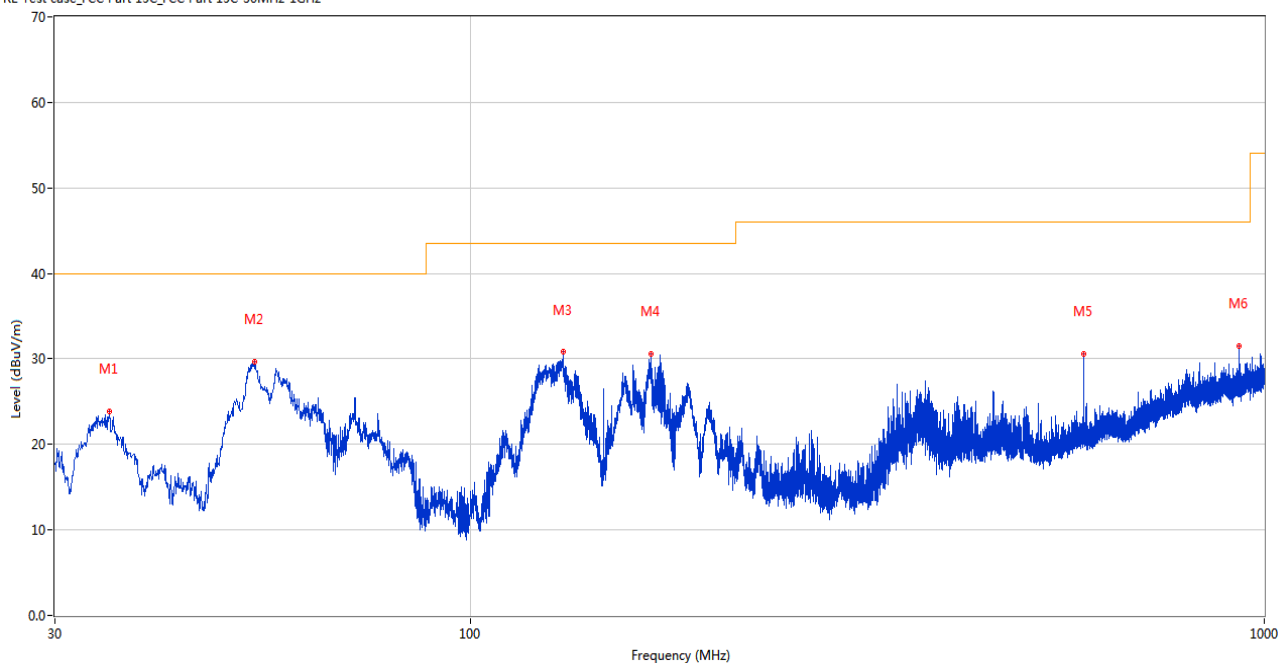
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.294	20.31	-26.79	40.0	19.69	Peak	136.00	100	Horizontal	Pass
2	76.608	23.18	-29.95	40.0	16.82	Peak	159.00	200	Horizontal	Pass
3	125.787	28.97	-27.52	43.5	14.53	Peak	155.00	200	Horizontal	Pass
4	243.546	26.37	-27.04	46.0	19.63	Peak	100.00	100	Horizontal	Pass
5	369.500	30.70	-22.61	46.0	15.30	Peak	101.00	100	Horizontal	Pass
6	866.188	31.02	-11.52	46.0	14.98	Peak	290.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz

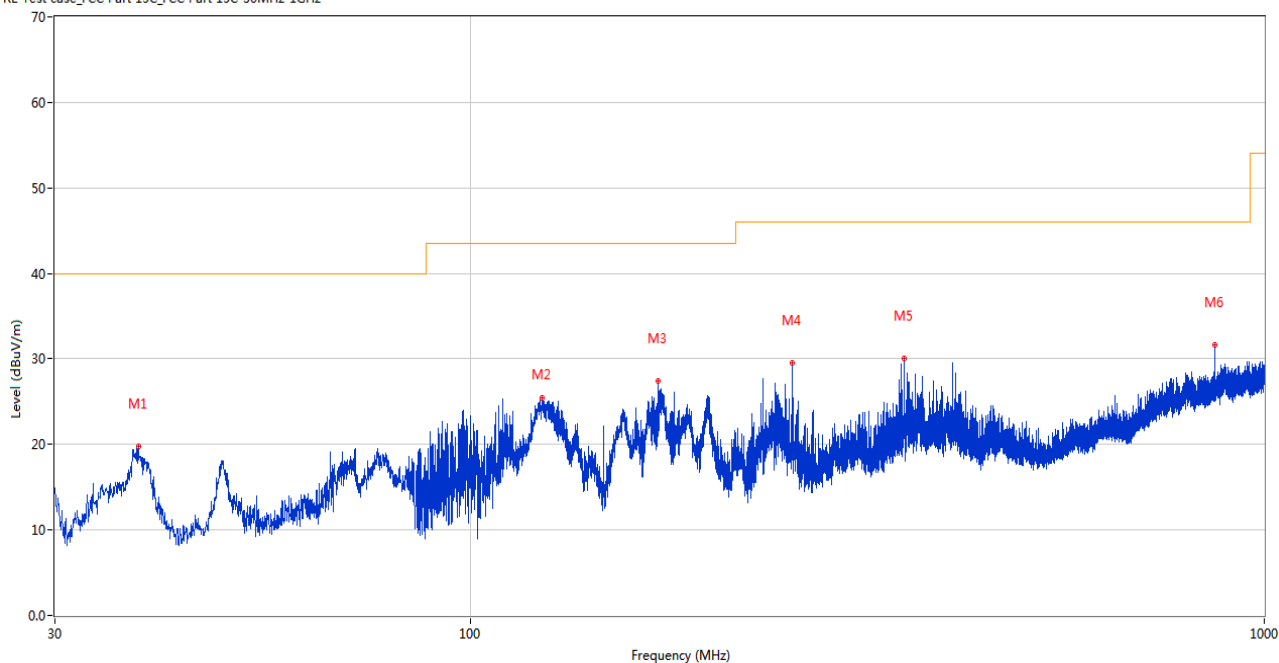


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.141	23.90	-26.96	40.0	16.10	Peak	23.00	100	Vertical	Pass
2	53.523	29.61	-26.88	40.0	10.39	Peak	67.00	100	Vertical	Pass
3	130.880	30.79	-27.30	43.5	12.71	Peak	184.00	100	Vertical	Pass
4	168.856	30.56	-25.66	43.5	12.94	Peak	149.00	100	Vertical	Pass
5	592.115	30.62	-16.56	46.0	15.38	Peak	277.00	200	Vertical	Pass
6	930.354	31.51	-10.74	46.0	14.49	Peak	96.00	100	Vertical	Pass

Dipole Antenna

30 MHz to 1 GHz, ANT H

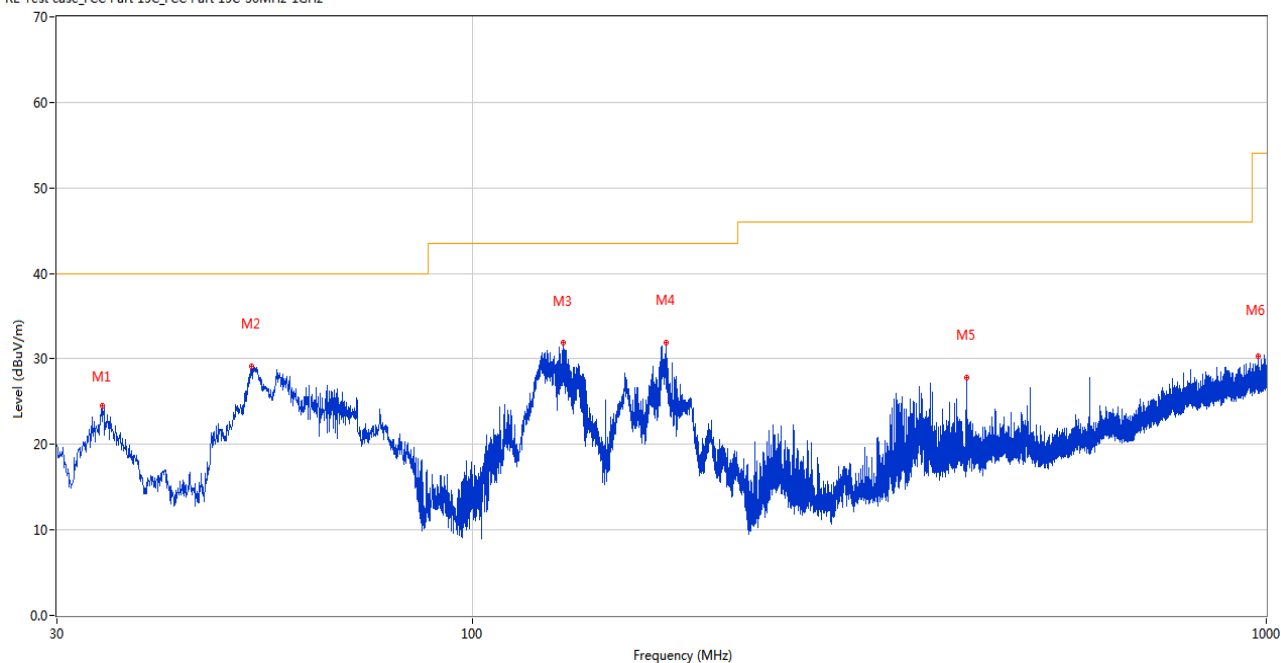
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.197	19.73	-26.79	40.0	20.27	Peak	160.00	100	Horizontal	Pass
2	123.266	25.49	-27.95	43.5	18.01	Peak	166.00	200	Horizontal	Pass
3	172.202	27.46	-25.98	43.5	16.04	Peak	121.00	200	Horizontal	Pass
4	254.264	29.52	-26.52	46.0	16.48	Peak	75.00	100	Horizontal	Pass
5	352.282	30.12	-23.62	46.0	15.88	Peak	44.00	100	Horizontal	Pass
6	866.237	31.65	-11.53	46.0	14.35	Peak	228.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.268	24.53	-27.51	40.0	15.47	Peak	104.00	100	Vertical	Pass
2	52.698	29.18	-26.69	40.0	10.82	Peak	77.00	100	Vertical	Pass
3	130.298	31.84	-27.41	43.5	11.66	Peak	175.00	100	Vertical	Pass
4	175.597	31.94	-26.48	43.5	11.56	Peak	346.00	100	Vertical	Pass
5	419.067	27.85	-21.16	46.0	18.15	Peak	148.00	100	Vertical	Pass
6	976.380	30.30	-9.90	54.0	23.70	Peak	90.00	100	Vertical	Pass

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

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

Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

PCB Antenna

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	1523.300	38.61	74.0	35.39	Peak	34.00	400	Horizontal	Pass
1**	1523.300	30.25	54.0	23.75	AV	34.00	400	Horizontal	Pass
2	4379.600	49.87	74.0	24.13	Peak	251.00	400	Horizontal	Pass
2**	4379.600	41.73	54.0	12.27	AV	251.00	400	Horizontal	Pass
3	5179.200	109.91	--	--	Peak	325.00	100	Horizontal	N/A
3**	5179.200	103.15	--	--	AV	325.00	100	Horizontal	N/A
4	7464.312	49.74	74.0	24.26	Peak	84.00	200	Horizontal	Pass
4**	7464.312	39.85	54.0	14.15	AV	84.00	200	Horizontal	Pass
5	11499.950	53.23	74.0	20.77	Peak	205.00	150	Horizontal	Pass
5**	11499.950	43.36	54.0	10.64	AV	205.00	150	Horizontal	Pass
6	15849.600	56.16	74.0	17.84	Peak	4.00	200	Horizontal	Pass
6**	15849.600	46.92	54.0	7.08	AV	4.00	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	1557.000	38.88	74.0	35.12	Peak	360.00	400	Vertical	Pass
1**	1557.000	29.51	54.0	24.49	AV	360.00	400	Vertical	Pass
2	4001.000	50.90	74.0	23.10	Peak	97.00	150	Vertical	Pass
2**	4001.000	43.56	54.0	10.44	AV	97.00	150	Vertical	Pass
3	5178.600	103.46	--	--	Peak	119.00	100	Vertical	N/A
3**	5178.600	96.17	--	--	AV	119.00	100	Vertical	N/A
4	7281.175	49.84	74.0	24.16	Peak	152.00	400	Vertical	Pass
4**	7281.175	40.11	54.0	13.89	AV	152.00	400	Vertical	Pass
5	11449.925	53.15	74.0	20.85	Peak	152.00	200	Vertical	Pass
5**	11449.925	43.18	54.0	10.82	AV	152.00	200	Vertical	Pass
6	15812.325	55.46	74.0	18.54	Peak	360.00	100	Vertical	Pass
6**	15812.325	46.19	54.0	7.81	AV	360.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1458.000	38.63	74.0	35.37	Peak	192.00	400	Horizontal	Pass
1**	1458.000	29.36	54.0	24.64	AV	192.00	400	Horizontal	Pass
2	4371.600	50.18	74.0	23.82	Peak	62.00	100	Horizontal	Pass
2**	4371.600	40.41	54.0	13.59	AV	62.00	100	Horizontal	Pass
3	5218.600	110.20	--	--	Peak	326.00	100	Horizontal	N/A
3**	5218.600	103.26	--	--	AV	326.00	100	Horizontal	N/A
4	7379.788	49.74	74.0	24.26	Peak	15.00	100	Horizontal	Pass
4**	7379.788	40.43	54.0	13.57	AV	15.00	100	Horizontal	Pass
5	12294.887	53.23	74.0	20.77	Peak	144.00	200	Horizontal	Pass
5**	12294.887	44.15	54.0	9.85	AV	144.00	200	Horizontal	Pass
6	16017.599	55.56	74.0	18.44	Peak	197.00	200	Horizontal	Pass
6**	16017.599	46.36	54.0	7.64	AV	197.00	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	1497.900	39.15	74.0	34.85	Peak	237.00	100	Vertical	Pass
1**	1497.900	28.70	54.0	25.30	AV	237.00	100	Vertical	Pass
2	4000.800	50.23	74.0	23.77	Peak	107.00	100	Vertical	Pass
2**	4000.800	43.43	54.0	10.57	AV	107.00	100	Vertical	Pass
3	5219.600	101.17	--	--	Peak	15.00	150	Vertical	N/A
3**	5219.600	92.98	--	--	AV	15.00	150	Vertical	N/A
4	7710.987	50.05	74.0	23.95	Peak	269.00	100	Vertical	Pass
4**	7710.987	39.95	54.0	14.05	AV	269.00	100	Vertical	Pass
5	12396.951	53.37	74.0	20.63	Peak	132.00	200	Vertical	Pass
5**	12396.951	43.91	54.0	10.09	AV	132.00	200	Vertical	Pass
6	15628.575	55.76	74.0	18.24	Peak	244.00	300	Vertical	Pass
6**	15628.575	46.45	54.0	7.55	AV	244.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.300	38.64	74.0	35.36	Peak	290.00	300	Horizontal	Pass
1**	1562.300	30.01	54.0	23.99	AV	290.00	300	Horizontal	Pass
2	4380.600	50.77	74.0	23.23	Peak	360.00	400	Horizontal	Pass
2**	4380.600	41.72	54.0	12.28	AV	360.00	400	Horizontal	Pass
3	5238.000	109.99	--	--	Peak	340.00	150	Horizontal	N/A
3**	5238.000	101.57	--	--	AV	340.00	150	Horizontal	N/A
4	7328.325	49.76	74.0	24.24	Peak	128.00	200	Horizontal	Pass
4**	7328.325	40.28	54.0	13.72	AV	128.00	200	Horizontal	Pass
5	12292.300	53.10	74.0	20.90	Peak	163.00	100	Horizontal	Pass
5**	12292.300	43.62	54.0	10.38	AV	163.00	100	Horizontal	Pass
6	15659.813	56.21	74.0	17.79	Peak	253.00	400	Horizontal	Pass
6**	15659.813	46.59	54.0	7.41	AV	253.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1626.500	39.33	74.0	34.67	Peak	355.00	400	Vertical	Pass
1**	1626.500	30.01	54.0	23.99	AV	355.00	400	Vertical	Pass
2	3999.000	50.70	74.0	23.30	Peak	77.00	200	Vertical	Pass
2**	3999.000	43.65	54.0	10.35	AV	77.00	200	Vertical	Pass
3	5237.800	101.19	--	--	Peak	112.00	200	Vertical	N/A
3**	5237.800	93.20	--	--	AV	112.00	200	Vertical	N/A
4	7626.175	49.77	74.0	24.23	Peak	109.00	400	Vertical	Pass
4**	7626.175	40.12	54.0	13.88	AV	109.00	400	Vertical	Pass
5	12362.162	53.80	74.0	20.20	Peak	185.00	150	Vertical	Pass
5**	12362.162	44.34	54.0	9.66	AV	185.00	150	Vertical	Pass
6	15577.650	56.85	74.0	17.15	Peak	151.00	200	Vertical	Pass
6**	15577.650	45.75	54.0	8.25	AV	151.00	200	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	1565.500	38.94	74.0	35.06	Peak	360.00	100	Horizontal	Pass
1**	1565.500	29.68	54.0	24.32	AV	360.00	100	Horizontal	Pass
2	4385.600	50.23	74.0	23.77	Peak	173.00	400	Horizontal	Pass
2**	4385.600	41.52	54.0	12.48	AV	173.00	400	Horizontal	Pass
3	5182.000	109.92	--	--	Peak	326.00	100	Horizontal	N/A
3**	5182.000	102.04	--	--	AV	326.00	100	Horizontal	N/A
4	7365.987	49.95	74.0	24.05	Peak	287.00	400	Horizontal	Pass
4**	7365.987	40.99	54.0	13.01	AV	287.00	400	Horizontal	Pass
5	12283.963	53.64	74.0	20.36	Peak	231.00	100	Horizontal	Pass
5**	12283.963	44.97	54.0	9.03	AV	231.00	100	Horizontal	Pass
6	16053.300	55.97	74.0	18.03	Peak	166.00	400	Horizontal	Pass
6**	16053.300	45.81	54.0	8.19	AV	166.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1569.700	39.68	74.0	34.32	Peak	90.00	400	Vertical	Pass
1**	1569.700	29.77	54.0	24.23	AV	90.00	400	Vertical	Pass
2	4000.800	50.91	74.0	23.09	Peak	77.00	400	Vertical	Pass
2**	4000.800	44.64	54.0	9.36	AV	77.00	400	Vertical	Pass
3	5176.800	101.48	--	--	Peak	112.00	100	Vertical	N/A
3**	5176.800	94.33	--	--	AV	112.00	100	Vertical	N/A
4	7391.000	49.82	74.0	24.18	Peak	360.00	300	Vertical	Pass
4**	7391.000	41.02	54.0	12.98	AV	360.00	300	Vertical	Pass
5	12282.237	53.15	74.0	20.85	Peak	247.00	100	Vertical	Pass
5**	12282.237	44.82	54.0	9.18	AV	247.00	100	Vertical	Pass
6	16068.525	56.17	74.0	17.83	Peak	67.00	200	Vertical	Pass
6**	16068.525	46.45	54.0	7.55	AV	67.00	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	1621.400	39.04	74.0	34.96	Peak	190.00	100	Horizontal	Pass
1**	1621.400	29.26	54.0	24.74	AV	190.00	100	Horizontal	Pass
2	4343.800	50.35	74.0	23.65	Peak	119.00	100	Horizontal	Pass
2**	4343.800	40.60	54.0	13.40	AV	119.00	100	Horizontal	Pass
3	5222.200	109.95	--	--	Peak	326.00	100	Horizontal	N/A
3**	5222.200	102.55	--	--	AV	326.00	100	Horizontal	N/A
4	7741.750	49.51	74.0	24.49	Peak	80.00	100	Horizontal	Pass
4**	7741.750	40.69	54.0	13.31	AV	80.00	100	Horizontal	Pass
5	12327.663	53.21	74.0	20.79	Peak	360.00	150	Horizontal	Pass
5**	12327.663	44.25	54.0	9.75	AV	360.00	150	Horizontal	Pass
6	16059.338	56.30	74.0	17.70	Peak	306.00	400	Horizontal	Pass
6**	16059.338	46.74	54.0	7.26	AV	306.00	400	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	1573.200	39.83	74.0	34.17	Peak	347.00	300	Vertical	Pass
1**	1573.200	31.21	54.0	22.79	AV	347.00	300	Vertical	Pass
2	4000.200	50.95	74.0	23.05	Peak	114.00	100	Vertical	Pass
2**	4000.200	44.99	54.0	9.01	AV	114.00	100	Vertical	Pass
3	5221.200	100.62	--	--	Peak	114.00	150	Vertical	N/A
3**	5221.200	93.10	--	--	AV	114.00	150	Vertical	N/A
4	7444.188	50.02	74.0	23.98	Peak	360.00	200	Vertical	Pass
4**	7444.188	39.94	54.0	14.06	AV	360.00	200	Vertical	Pass
5	12283.388	53.28	74.0	20.72	Peak	184.00	100	Vertical	Pass
5**	12283.388	44.45	54.0	9.55	AV	184.00	100	Vertical	Pass
6	15786.599	55.93	74.0	18.07	Peak	0.00	100	Vertical	Pass
6**	15786.599	46.88	54.0	7.12	AV	0.00	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	1488.500	39.46	74.0	34.54	Peak	3.00	100	Horizontal	Pass
1**	1488.500	29.69	54.0	24.31	AV	3.00	100	Horizontal	Pass
2	4380.200	50.66	74.0	23.34	Peak	185.00	300	Horizontal	Pass
2**	4380.200	41.16	54.0	12.84	AV	185.00	300	Horizontal	Pass
3	5241.400	109.05	--	--	Peak	331.00	200	Horizontal	N/A
3**	5241.400	101.57	--	--	AV	331.00	200	Horizontal	N/A
4	7714.438	49.93	74.0	24.07	Peak	217.00	400	Horizontal	Pass
4**	7714.438	40.13	54.0	13.87	AV	217.00	400	Horizontal	Pass
5	11949.312	52.91	74.0	21.09	Peak	149.00	150	Horizontal	Pass
5**	11949.312	44.04	54.0	9.96	AV	149.00	150	Horizontal	Pass
6	15799.463	56.24	74.0	17.76	Peak	360.00	300	Horizontal	Pass
6**	15799.463	46.15	54.0	7.85	AV	360.00	300	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	1585.500	39.35	74.0	34.65	Peak	63.00	400	Vertical	Pass
1**	1585.500	29.65	54.0	24.35	AV	63.00	400	Vertical	Pass
2	4380.600	51.19	74.0	22.81	Peak	217.00	200	Vertical	Pass
2**	4380.600	42.19	54.0	11.81	AV	217.00	200	Vertical	Pass
3	5238.800	100.95	--	--	Peak	119.00	100	Vertical	N/A
3**	5238.800	92.38	--	--	AV	119.00	100	Vertical	N/A
4	7679.363	49.32	74.0	24.68	Peak	116.00	300	Vertical	Pass
4**	7679.363	39.97	54.0	14.03	AV	116.00	300	Vertical	Pass
5	12616.600	53.07	74.0	20.93	Peak	116.00	200	Vertical	Pass
5**	12616.600	44.39	54.0	9.61	AV	116.00	200	Vertical	Pass
6	16053.826	56.10	74.0	17.90	Peak	85.00	100	Vertical	Pass
6**	16053.826	46.51	54.0	7.49	AV	85.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1506.600	39.32	74.0	34.68	Peak	299.00	100	Horizontal	Pass
1**	1506.600	29.32	54.0	24.68	AV	299.00	100	Horizontal	Pass
2	4365.600	50.53	74.0	23.47	Peak	351.00	200	Horizontal	Pass
2**	4365.600	41.09	54.0	12.91	AV	351.00	200	Horizontal	Pass
3	5180.000	107.30	--	--	Peak	330.00	150	Horizontal	N/A
3**	5180.000	98.67	--	--	AV	330.00	150	Horizontal	N/A
4	7351.900	49.57	74.0	24.43	Peak	13.00	400	Horizontal	Pass
4**	7351.900	40.40	54.0	13.60	AV	13.00	400	Horizontal	Pass
5	12233.075	53.25	74.0	20.75	Peak	333.00	150	Horizontal	Pass
5**	12233.075	43.31	54.0	10.69	AV	333.00	150	Horizontal	Pass
6	15858.000	55.83	74.0	18.17	Peak	0.00	400	Horizontal	Pass
6**	15858.000	46.24	54.0	7.76	AV	0.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.900	39.18	74.0	34.82	Peak	197.00	400	Vertical	Pass
1**	1482.900	28.77	54.0	25.23	AV	197.00	400	Vertical	Pass
2	4000.000	51.13	74.0	22.87	Peak	101.00	300	Vertical	Pass
2**	4000.000	46.85	54.0	7.15	AV	101.00	300	Vertical	Pass
3	5202.400	99.60	--	--	Peak	113.00	200	Vertical	N/A
3**	5202.400	91.90	--	--	AV	113.00	200	Vertical	N/A
4	7341.263	50.03	74.0	23.97	Peak	283.00	300	Vertical	Pass
4**	7341.263	41.89	54.0	12.11	AV	283.00	300	Vertical	Pass
5	12328.526	53.52	74.0	20.48	Peak	115.00	200	Vertical	Pass
5**	12328.526	43.89	54.0	10.11	AV	115.00	200	Vertical	Pass
6	15842.250	56.20	74.0	17.80	Peak	0.00	100	Vertical	Pass
6**	15842.250	46.66	54.0	7.34	AV	0.00	100	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	1586.600	38.55	74.0	35.45	Peak	304.00	300	Horizontal	Pass
1**	1586.600	29.54	54.0	24.46	AV	304.00	300	Horizontal	Pass
2	4379.200	50.72	74.0	23.28	Peak	0.00	100	Horizontal	Pass
2**	4379.200	42.41	54.0	11.59	AV	0.00	100	Horizontal	Pass
3	5244.200	106.78	--	--	Peak	330.00	200	Horizontal	N/A
3**	5244.200	97.99	--	--	AV	330.00	200	Horizontal	N/A
4	7672.462	49.72	74.0	24.28	Peak	322.00	300	Horizontal	Pass
4**	7672.462	40.47	54.0	13.53	AV	322.00	300	Horizontal	Pass
5	12302.363	53.07	74.0	20.93	Peak	283.00	150	Horizontal	Pass
5**	12302.363	43.77	54.0	10.23	AV	283.00	150	Horizontal	Pass
6	15855.901	56.92	74.0	17.08	Peak	248.00	400	Horizontal	Pass
6**	15855.901	47.03	54.0	6.97	AV	248.00	400	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	1595.800	39.71	74.0	34.29	Peak	280.00	200	Vertical	Pass
1**	1595.800	30.31	54.0	23.69	AV	280.00	200	Vertical	Pass
2	3999.800	51.05	74.0	22.95	Peak	106.00	100	Vertical	Pass
2**	3999.800	46.25	54.0	7.75	AV	106.00	100	Vertical	Pass
3	5223.200	98.17	--	--	Peak	19.00	200	Vertical	N/A
3**	5223.200	91.14	--	--	AV	19.00	200	Vertical	N/A
4	7590.237	49.84	74.0	24.16	Peak	360.00	200	Vertical	Pass
4**	7590.237	40.05	54.0	13.95	AV	360.00	200	Vertical	Pass
5	11969.724	53.09	74.0	20.91	Peak	64.00	200	Vertical	Pass
5**	11969.724	42.83	54.0	11.17	AV	64.00	200	Vertical	Pass
6	15799.725	56.36	74.0	17.64	Peak	265.00	100	Vertical	Pass
6**	15799.725	46.32	54.0	7.68	AV	265.00	100	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	1510.400	38.66	74.0	35.34	Peak	96.00	100	Horizontal	Pass
1**	1510.400	29.07	54.0	24.93	AV	96.00	100	Horizontal	Pass
2	4378.600	49.90	74.0	24.10	Peak	188.00	400	Horizontal	Pass
2**	4378.600	40.81	54.0	13.19	AV	188.00	400	Horizontal	Pass
3	5181.200	109.42	--	--	Peak	319.00	200	Horizontal	N/A
3**	5181.200	102.28	--	--	AV	319.00	200	Horizontal	N/A
4	7534.175	49.68	74.0	24.32	Peak	206.00	200	Horizontal	Pass
4**	7534.175	39.01	54.0	14.99	AV	206.00	200	Horizontal	Pass
5	12613.437	53.04	74.0	20.96	Peak	206.00	200	Horizontal	Pass
5**	12613.437	43.91	54.0	10.09	AV	206.00	200	Horizontal	Pass
6	15825.713	56.50	74.0	17.50	Peak	285.00	100	Horizontal	Pass
6**	15825.713	47.17	54.0	6.83	AV	285.00	100	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	1470.900	39.31	74.0	34.69	Peak	316.00	200	Vertical	Pass
1**	1470.900	29.57	54.0	24.43	AV	316.00	200	Vertical	Pass
2	4000.200	50.75	74.0	23.25	Peak	112.00	200	Vertical	Pass
2**	4000.200	45.69	54.0	8.31	AV	112.00	200	Vertical	Pass
3	5178.600	102.28	--	--	Peak	112.00	150	Vertical	N/A
3**	5178.600	93.96	--	--	AV	112.00	150	Vertical	N/A
4	7338.100	49.57	74.0	24.43	Peak	30.00	200	Vertical	Pass
4**	7338.100	41.64	54.0	12.36	AV	30.00	200	Vertical	Pass
5	12284.537	53.40	74.0	20.60	Peak	47.00	150	Vertical	Pass
5**	12284.537	45.15	54.0	8.85	AV	47.00	150	Vertical	Pass
6	15795.787	55.91	74.0	18.09	Peak	324.00	400	Vertical	Pass
6**	15795.787	46.99	54.0	7.01	AV	324.00	400	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	1561.800	38.80	74.0	35.20	Peak	265.00	400	Horizontal	Pass
1**	1561.800	29.68	54.0	24.32	AV	265.00	400	Horizontal	Pass
2	4364.200	50.32	74.0	23.68	Peak	58.00	300	Horizontal	Pass
2**	4364.200	41.55	54.0	12.45	AV	58.00	300	Horizontal	Pass
3	5221.400	109.89	--	--	Peak	342.00	150	Horizontal	N/A
3**	5221.400	102.57	--	--	AV	342.00	150	Horizontal	N/A
4	7668.150	50.00	74.0	24.00	Peak	2.00	100	Horizontal	Pass
4**	7668.150	40.16	54.0	13.84	AV	2.00	100	Horizontal	Pass
5	12261.250	54.35	74.0	19.65	Peak	344.00	200	Horizontal	Pass
5**	12261.250	43.95	54.0	10.05	AV	344.00	200	Horizontal	Pass
6	16079.287	56.34	74.0	17.66	Peak	146.00	200	Horizontal	Pass
6**	16079.287	46.61	54.0	7.39	AV	146.00	200	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	1477.300	39.10	74.0	34.90	Peak	101.00	400	Vertical	Pass
1**	1477.300	29.81	54.0	24.19	AV	101.00	400	Vertical	Pass
2	3999.400	50.40	74.0	23.60	Peak	96.00	400	Vertical	Pass
2**	3999.400	43.29	54.0	10.71	AV	96.00	400	Vertical	Pass
3	5218.800	101.27	--	--	Peak	132.00	150	Vertical	N/A
3**	5218.800	92.86	--	--	AV	132.00	150	Vertical	N/A
4	7275.713	49.96	74.0	24.04	Peak	29.00	300	Vertical	Pass
4**	7275.713	40.50	54.0	13.50	AV	29.00	300	Vertical	Pass
5	11930.625	53.04	74.0	20.96	Peak	51.00	150	Vertical	Pass
5**	11930.625	43.55	54.0	10.45	AV	51.00	150	Vertical	Pass
6	15793.424	56.63	74.0	17.37	Peak	81.00	100	Vertical	Pass
6**	15793.424	47.11	54.0	6.89	AV	81.00	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	1485.800	38.89	74.0	35.11	Peak	129.00	300	Horizontal	Pass
1**	1485.800	29.82	54.0	24.18	AV	129.00	300	Horizontal	Pass
2	4385.200	49.73	74.0	24.27	Peak	360.00	200	Horizontal	Pass
2**	4385.200	41.91	54.0	12.09	AV	360.00	200	Horizontal	Pass
3	5241.600	108.82	--	--	Peak	335.00	200	Horizontal	N/A
3**	5241.600	101.58	--	--	AV	335.00	200	Horizontal	N/A
4	7341.837	49.77	74.0	24.23	Peak	65.00	400	Horizontal	Pass
4**	7341.837	40.87	54.0	13.13	AV	65.00	400	Horizontal	Pass
5	12283.388	53.26	74.0	20.74	Peak	325.00	200	Horizontal	Pass
5**	12283.388	44.44	54.0	9.56	AV	325.00	200	Horizontal	Pass
6	16058.287	55.79	74.0	18.21	Peak	228.00	200	Horizontal	Pass
6**	16058.287	46.58	54.0	7.42	AV	228.00	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	1493.500	39.06	74.0	34.94	Peak	63.00	400	Vertical	Pass
1**	1493.500	30.34	54.0	23.66	AV	63.00	400	Vertical	Pass
2	3999.800	50.81	74.0	23.19	Peak	95.00	300	Vertical	Pass
2**	3999.800	45.58	54.0	8.42	AV	95.00	300	Vertical	Pass
3	5241.200	100.68	--	--	Peak	131.00	200	Vertical	N/A
3**	5241.200	94.08	--	--	AV	131.00	200	Vertical	N/A
4	7462.013	49.97	74.0	24.03	Peak	0.00	300	Vertical	Pass
4**	7462.013	39.74	54.0	14.26	AV	0.00	300	Vertical	Pass
5	12316.450	53.50	74.0	20.50	Peak	0.00	100	Vertical	Pass
5**	12316.450	44.22	54.0	9.78	AV	0.00	100	Vertical	Pass
6	15788.963	55.76	74.0	18.24	Peak	21.00	200	Vertical	Pass
6**	15788.963	47.38	54.0	6.62	AV	21.00	200	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	1485.400	38.60	74.0	35.40	Peak	102.00	100	Horizontal	Pass
1**	1485.400	29.75	54.0	24.25	AV	102.00	100	Horizontal	Pass
2	4234.000	50.42	74.0	23.58	Peak	205.00	300	Horizontal	Pass
2**	4234.000	40.68	54.0	13.32	AV	205.00	300	Horizontal	Pass
3	5186.000	106.84	--	--	Peak	341.00	150	Horizontal	N/A
3**	5186.000	98.82	--	--	AV	341.00	150	Horizontal	N/A
4	7336.950	50.04	74.0	23.96	Peak	247.00	400	Horizontal	Pass
4**	7336.950	41.15	54.0	12.85	AV	247.00	400	Horizontal	Pass
5	12365.325	53.20	74.0	20.80	Peak	306.00	200	Horizontal	Pass
5**	12365.325	43.65	54.0	10.35	AV	306.00	200	Horizontal	Pass
6	15801.562	56.38	74.0	17.62	Peak	179.00	400	Horizontal	Pass
6**	15801.562	46.59	54.0	7.41	AV	179.00	400	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	1619.500	40.30	74.0	33.70	Peak	173.00	300	Vertical	Pass
1**	1619.500	30.01	54.0	23.99	AV	173.00	300	Vertical	Pass
2	4000.200	51.14	74.0	22.86	Peak	96.00	100	Vertical	Pass
2**	4000.200	45.53	54.0	8.47	AV	96.00	100	Vertical	Pass
3	5206.000	99.31	--	--	Peak	122.00	150	Vertical	N/A
3**	5206.000	91.29	--	--	AV	122.00	150	Vertical	N/A
4	7731.975	50.19	74.0	23.81	Peak	15.00	100	Vertical	Pass
4**	7731.975	40.34	54.0	13.66	AV	15.00	100	Vertical	Pass
5	12699.688	52.78	74.0	21.22	Peak	91.00	200	Vertical	Pass
5**	12699.688	43.58	54.0	10.42	AV	91.00	200	Vertical	Pass
6	16178.513	56.07	74.0	17.93	Peak	312.00	400	Vertical	Pass
6**	16178.513	46.47	54.0	7.53	AV	312.00	400	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	1486.600	39.23	74.0	34.77	Peak	111.00	400	Horizontal	Pass
1**	1486.600	29.24	54.0	24.76	AV	111.00	400	Horizontal	Pass
2	4377.600	51.25	74.0	22.75	Peak	101.00	100	Horizontal	Pass
2**	4377.600	40.72	54.0	13.28	AV	101.00	100	Horizontal	Pass
3	5217.400	106.59	--	--	Peak	339.00	100	Horizontal	N/A
3**	5217.400	98.67	--	--	AV	339.00	100	Horizontal	N/A
4	7376.050	49.66	74.0	24.34	Peak	10.00	400	Horizontal	Pass
4**	7376.050	40.11	54.0	13.89	AV	10.00	400	Horizontal	Pass
5	12387.174	53.25	74.0	20.75	Peak	305.00	200	Horizontal	Pass
5**	12387.174	43.92	54.0	10.08	AV	305.00	200	Horizontal	Pass
6	16132.575	55.72	74.0	18.28	Peak	312.00	100	Horizontal	Pass
6**	16132.575	46.94	54.0	7.06	AV	312.00	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	1486.400	39.35	74.0	34.65	Peak	70.00	400	Vertical	Pass
1**	1486.400	30.41	54.0	23.59	AV	70.00	400	Vertical	Pass
2	3999.800	51.35	74.0	22.65	Peak	122.00	300	Vertical	Pass
2**	3999.800	45.10	54.0	8.90	AV	122.00	300	Vertical	Pass
3	5242.000	98.23	--	--	Peak	122.00	200	Vertical	N/A
3**	5242.000	89.87	--	--	AV	122.00	200	Vertical	N/A
4	7341.263	49.75	74.0	24.25	Peak	131.00	400	Vertical	Pass
4**	7341.263	41.56	54.0	12.44	AV	131.00	400	Vertical	Pass
5	12314.724	53.04	74.0	20.96	Peak	112.00	150	Vertical	Pass
5**	12314.724	43.69	54.0	10.31	AV	112.00	150	Vertical	Pass
6	16099.500	56.95	74.0	17.05	Peak	137.00	400	Vertical	Pass
6**	16099.500	46.04	54.0	7.96	AV	137.00	400	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	1491.600	39.46	74.0	34.54	Peak	224.00	300	Horizontal	Pass
1**	1491.600	29.68	54.0	24.32	AV	224.00	300	Horizontal	Pass
2	4379.800	49.80	74.0	24.20	Peak	112.00	300	Horizontal	Pass
2**	4379.800	41.94	54.0	12.06	AV	112.00	300	Horizontal	Pass
3	5224.000	104.00	--	--	Peak	344.00	100	Horizontal	N/A
3**	5224.000	95.39	--	--	AV	344.00	100	Horizontal	N/A
4	7343.275	50.27	74.0	23.73	Peak	224.00	200	Horizontal	Pass
4**	7343.275	41.31	54.0	12.69	AV	224.00	200	Horizontal	Pass
5	12337.150	53.89	74.0	20.11	Peak	0.00	100	Horizontal	Pass
5**	12337.150	43.95	54.0	10.05	AV	0.00	100	Horizontal	Pass
6	16093.200	55.81	74.0	18.19	Peak	89.00	200	Horizontal	Pass
6**	16093.200	46.91	54.0	7.09	AV	89.00	200	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	1502.700	39.45	74.0	34.55	Peak	94.00	200	Vertical	Pass
1**	1502.700	29.52	54.0	24.48	AV	94.00	200	Vertical	Pass
2	3999.400	51.81	74.0	22.19	Peak	120.00	200	Vertical	Pass
2**	3999.400	44.16	54.0	9.84	AV	120.00	200	Vertical	Pass
3	5206.800	94.68	--	--	Peak	132.00	150	Vertical	N/A
3**	5206.800	88.24	--	--	AV	132.00	150	Vertical	N/A
4	7384.100	50.01	74.0	23.99	Peak	154.00	200	Vertical	Pass
4**	7384.100	40.49	54.0	13.51	AV	154.00	200	Vertical	Pass
5	12353.250	54.10	74.0	19.90	Peak	73.00	100	Vertical	Pass
5**	12353.250	43.48	54.0	10.52	AV	73.00	100	Vertical	Pass
6	15819.150	55.73	74.0	18.27	Peak	342.00	200	Vertical	Pass
6**	15819.150	46.61	54.0	7.39	AV	342.00	200	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	1504.200	39.19	74.0	34.81	Peak	259.00	400	Horizontal	Pass
1**	1504.200	30.17	54.0	23.83	AV	259.00	400	Horizontal	Pass
2	4379.000	50.87	74.0	23.13	Peak	262.00	300	Horizontal	Pass
2**	4379.000	41.74	54.0	12.26	AV	262.00	300	Horizontal	Pass
3	5182.200	111.26	--	--	Peak	317.00	150	Horizontal	N/A
3**	5182.200	101.91	--	--	AV	317.00	150	Horizontal	N/A
4	7379.788	50.16	74.0	23.84	Peak	271.00	100	Horizontal	Pass
4**	7379.788	41.15	54.0	12.85	AV	271.00	100	Horizontal	Pass
5	12284.537	52.93	74.0	21.07	Peak	169.00	150	Horizontal	Pass
5**	12284.537	44.71	54.0	9.29	AV	169.00	150	Horizontal	Pass
6	15814.162	56.44	74.0	17.56	Peak	16.00	100	Horizontal	Pass
6**	15814.162	45.85	54.0	8.15	AV	16.00	100	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	1623.300	39.63	74.0	34.37	Peak	240.00	300	Vertical	Pass
1**	1623.300	31.32	54.0	22.68	AV	240.00	300	Vertical	Pass
2	4001.200	50.95	74.0	23.05	Peak	81.00	100	Vertical	Pass
2**	4001.200	42.82	54.0	11.18	AV	81.00	100	Vertical	Pass
3	5176.800	105.06	--	--	Peak	32.00	200	Vertical	N/A
3**	5176.800	95.50	--	--	AV	32.00	200	Vertical	N/A
4	7338.962	50.02	74.0	23.98	Peak	40.00	200	Vertical	Pass
4**	7338.962	40.84	54.0	13.16	AV	40.00	200	Vertical	Pass
5	12294.313	53.33	74.0	20.67	Peak	211.00	100	Vertical	Pass
5**	12294.313	44.16	54.0	9.84	AV	211.00	100	Vertical	Pass
6	15499.425	55.48	74.0	18.52	Peak	255.00	150	Vertical	Pass
6**	15499.425	46.56	54.0	7.44	AV	255.00	150	Vertical	Pass

11ax20 (SU), 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	1563.000	38.78	74.0	35.22	Peak	223.00	200	Horizontal	Pass
1**	1563.000	29.80	54.0	24.20	AV	223.00	200	Horizontal	Pass
2	4390.000	50.37	74.0	23.63	Peak	241.00	400	Horizontal	Pass
2**	4390.000	42.36	54.0	11.64	AV	241.00	400	Horizontal	Pass
3	5218.200	111.31	--	--	Peak	322.00	150	Horizontal	N/A
3**	5218.200	102.21	--	--	AV	322.00	150	Horizontal	N/A
4	7359.950	49.88	74.0	24.12	Peak	347.00	100	Horizontal	Pass
4**	7359.950	40.72	54.0	13.28	AV	347.00	100	Horizontal	Pass
5	11941.838	53.43	74.0	20.57	Peak	193.00	100	Horizontal	Pass
5**	11941.838	43.88	54.0	10.12	AV	193.00	100	Horizontal	Pass
6	16115.512	55.46	74.0	18.54	Peak	211.00	400	Horizontal	Pass
6**	16115.512	46.34	54.0	7.66	AV	211.00	400	Horizontal	Pass

11ax20 (SU), 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	1621.400	40.24	74.0	33.76	Peak	49.00	100	Vertical	Pass
1**	1621.400	29.94	54.0	24.06	AV	49.00	100	Vertical	Pass
2	4000.600	50.79	74.0	23.21	Peak	84.00	300	Vertical	Pass
2**	4000.600	44.95	54.0	9.05	AV	84.00	300	Vertical	Pass
3	5219.200	105.95	--	--	Peak	341.00	200	Vertical	N/A
3**	5219.200	96.67	--	--	AV	341.00	200	Vertical	N/A
4	7346.438	50.02	74.0	23.98	Peak	6.00	400	Vertical	Pass
4**	7346.438	40.84	54.0	13.16	AV	6.00	400	Vertical	Pass
5	12617.750	53.00	74.0	21.00	Peak	57.00	150	Vertical	Pass
5**	12617.750	43.67	54.0	10.33	AV	57.00	150	Vertical	Pass
6	16015.237	55.55	74.0	18.45	Peak	74.00	300	Vertical	Pass
6**	16015.237	45.82	54.0	8.18	AV	74.00	300	Vertical	Pass

11ax20 (SU), 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	1446.600	39.69	74.0	34.31	Peak	360.00	200	Horizontal	Pass
1**	1446.600	30.51	54.0	23.49	AV	360.00	200	Horizontal	Pass
2	4367.200	50.24	74.0	23.76	Peak	284.00	100	Horizontal	Pass
2**	4367.200	41.08	54.0	12.92	AV	284.00	100	Horizontal	Pass
3	5241.800	111.99	--	--	Peak	351.00	100	Horizontal	N/A
3**	5241.800	102.15	--	--	AV	351.00	100	Horizontal	N/A
4	7602.313	49.35	74.0	24.65	Peak	36.00	400	Horizontal	Pass
4**	7602.313	40.63	54.0	13.37	AV	36.00	400	Horizontal	Pass
5	12621.200	53.44	74.0	20.56	Peak	105.00	150	Horizontal	Pass
5**	12621.200	44.24	54.0	9.76	AV	105.00	150	Horizontal	Pass
6	16057.500	55.80	74.0	18.20	Peak	148.00	300	Horizontal	Pass
6**	16057.500	46.37	54.0	7.63	AV	148.00	300	Horizontal	Pass

11ax20 (SU), 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	1569.300	39.65	74.0	34.35	Peak	112.00	200	Vertical	Pass
1**	1569.300	30.96	54.0	23.04	AV	112.00	200	Vertical	Pass
2	4000.000	50.99	74.0	23.01	Peak	75.00	200	Vertical	Pass
2**	4000.000	45.70	54.0	8.30	AV	75.00	200	Vertical	Pass
3	5242.400	103.87	--	--	Peak	337.00	200	Vertical	N/A
3**	5242.400	95.02	--	--	AV	337.00	200	Vertical	N/A
4	7380.362	49.95	74.0	24.05	Peak	313.00	200	Vertical	Pass
4**	7380.362	40.51	54.0	13.49	AV	313.00	200	Vertical	Pass
5	12396.662	53.18	74.0	20.82	Peak	87.00	150	Vertical	Pass
5**	12396.662	43.76	54.0	10.24	AV	87.00	150	Vertical	Pass
6	16103.700	55.66	74.0	18.34	Peak	360.00	300	Vertical	Pass
6**	16103.700	46.61	54.0	7.39	AV	360.00	300	Vertical	Pass