



RF TEST REPORT

Report No.: 20240617G10973X-W3

Product Name: LWA Base Station

Model No.: pBS31480W7

FCC ID: 2AG32PBS31480W7

Applicant: Baicells Technologies Co., Ltd.

Address: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

Dates of Testing: 06/21/2024 - 10/16/2024

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No.43, Shahe Road, Xili Street,
Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **E-Mail:** manager@ccic-set.com

This test report consists of 118 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CCIC-SET. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CCIC-SET within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.



Test Report

Product.....: LWA Base Station

Trade Name: Baicells

Applicant.....: Baicells Technologies Co., Ltd.

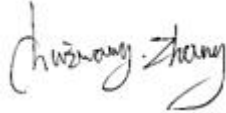
Applicant Address.....: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Manufacturer.....: Baicells Technologies Co., Ltd.

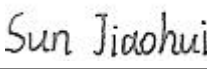
Manufacturer Address.....: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Test Standards.....: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2020

Test Result.....: Pass

Tested by:  2024.10.16

Chuiwang Zhang, Test Engineer

Reviewed by.....:  2024.10.16

Sun Jiaohui, Senior Engineer

Approved by.....:  2024.10.16

Chris You, Manager



Table of Contents

1. GENERAL INFORMATION	5
1.1. EUT Description	5
1.2. Test Standards and Results	7
1.3. Channel List	8
1.4. Test environment and mode	10
1.5. Table for Supporting Units	13
1.6. Laboratory Facilities	14
2. 47 CFR PART 15E REQUIREMENTS	15
2.1. Antenna requirement	15
2.2. Maximum Conducted Output Power	16
2.3. Power spectral density (PSD)	19
2.4. 26dB Emission Bandwidth and 99% Occupied Bandwidth	21
2.5. Frequency Stability	23
2.6. Radiated Band Edge and Spurious Emission	25
2.7. AC Power Line Conducted Emission	46
3. LIST OF MEASURING EQUIPMENT	50
4. UNCERTAINTY OF EVALUATION	51
APPENDIX A	52



Change History		
Issue	Date	Reason for change
1.0	2024.10.16	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LWA Base Station
Model No.	pBS31480W7
EUT supports Radios application	WLAN5.0GHz 802.11a/n/ac/ax
Product Type	Indoor Access Point
Modulation Type	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDM, OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 300 Mbps (2x2MIMO) 802.11ac: up to 1733.333 Mbps (2x2MIMO) 802.11ax: up to 2401.961 Mbps (2x2MIMO)
Frequency Range	UNII-1: 5150 ~ 5250MHz UNII-2a: 5250 ~ 5350MHz UNII-2c: 5470 ~ 5725MHz UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac/ax: 20MHz/40MHz/80MHz/160MHz
Channel Number	UNII-1: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 2 for 802.11n(HT40), 802.11ac(VHT40), 802.11ax(HE40) 1 for 802.11ac(VHT80), 802.11ax(HE80) UNII-2a: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 2 for 802.11n(HT40), 802.11ac(VHT40), 802.11ax(HE40) 1 for 802.11ac(VHT80), 802.11ax(HE80) 1 for 802.11ac(VHT160), 802.11ax(HE160) UNII-2c: 11 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 5 for 802.11n(HT40), 802.11ac(VHT40)), 802.11ax(HE40) 2 for 802.11ac(VHT80), 802.11ax(HE80) 1 for 802.11ac(VHT160), 802.11ax(HE160) UNII-3: 5 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 2 for 802.11n(HT40), 802.11ac(VHT40)), 802.11ax(HE40) 1 for 802.11ac(VHT80), 802.11ax(HE80)



Antenna Type	Internal Antenna
Antenna Gain	ANT 0/1: 6.33dBi
Output Power (Max.)	UNII-1: 18.91dBm UNII-2a: 18.79dBm UNII-2c: 19.25dBm UNII-3: 19.42dBm
AC adapter	Adapter (POE) Model: G0566-480-100 I/P: 100-240V, 50/60Hz, MAX 1.5A O/P: 48.0V 1.0A 48.0W Manufacturer: Shenzhen Gospell Digital Technology Co., Ltd.

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E §15.407	Radio Frequency Devices
2	KDB789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
4	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Result
1	15.203 15.407(a)	Antenna Requirement	PASS
2	15.407(a)(1)(ii) 15.407 (a)(2) 15.407(a)(3)(i)	Maximum Conducted Output Power	PASS
3	15.407(a)(12)	26dB Emission Bandwidth and 99% Occupied Bandwidth	PASS
4	15.407(e)	6dB Emission Bandwidth	PASS
5	15.407(a)(1)(ii) 15.407 (a)(2) 15.407(a)(3)(i)	Power spectral density (PSD)	PASS
6	15.207	AC Power Line Conducted Emission	PASS
7	15.205 15.209 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4)	Radiated Band Edges and Spurious Emission	PASS
8	15.407(g)	Frequency Stability	PASS

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20 and 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n-HT40, 802.11ac-VHT40 and 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	46	5230

1 channels are provided for 802.11ac-VHT80 and 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	/	/

Operated band in 5250 MHz ~ 5350MHz

4 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20 and 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n-HT40, 802.11ac-VHT40 and 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
54	5270	62	5310

1 channels are provided for 802.11ac-VHT80 and 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
58	5290	/	/

1 channels are provided for 802.11ac-VHT160 and 802.11ax-HE160.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
50	5250	/	/

Operated band in 5470 MHz ~ 5725MHz

11 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20 and 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640	/	/

5 channels are provided for 802.11n-HT40, 802.11ac-VHT40 and 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
102	5510	118	5590	134	5670
110	5550	126	5630	/	/

2 channels are provided for 802.11ac-VHT80 and 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
106	5530	122	5610	/	/

1 channels are provided for 802.11ac-VHT160 and 802.11ax-HE160.

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
114	5570	/	/	/	/

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20, 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n-HT40, 802.11ac-VHT40, 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
151	5755	159	5795

1 channel are provided for 802.11ac-VHT80, 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
155	5775	/	/

1.4. Test environment and mode

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

Operating Environment	
Temperature	15°C - 35°C
Humidity	30% -60%
Atmospheric Pressure	86kPa-106kPa
Test mode:	
Continuously transmitting mode	Keep the EUT in continuous transmitting with modulation

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

For Frequency band 5150 ~ 5250 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5180	5220	5240	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5190	/	5230	MCS 0
802.11ac-VHT80/ax-HE80	5210	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

For Frequency band 5250 ~ 5350 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5260	5300	5320	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5270	/	5310	MCS 0
802.11ac-VHT80/ax-HE80	5290	/	/	MCS 0
802.11ac-VHT160/ax-HE160	/	5250	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

For Frequency band 5470 ~ 5725 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5500	5580	5700	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5510	5550	5670	MCS 0
802.11ac-VHT80/ax-HE80	5530	/	/	MCS 0
802.11ac-VHT160/ax-HE160	/	5570	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

For Frequency band 5725 ~ 5850 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5745	5785	5825	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5755	/	5795	MCS 0
802.11ac-VHT80/ax-HE80	5775	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation modes or test configuration modes mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX 802.11a SISO Mode
Mode 2	TX 802.11n-HT20 SISO Mode
Mode 3	TX 802.11n-HT40 SISO Mode
Mode 4	TX 802.11ac-VHT20 SISO Mode
Mode 5	TX 802.11ac-VHT40 SISO Mode
Mode 6	TX 802.11ac-VHT80 SISO Mode
Mode 7	TX 802.11ac-VHT160 SISO Mode
Mode 8	TX 802.11ax-HE20 SISO Mode
Mode 9	TX 802.11ax-HE40 SISO Mode
Mode 10	TX 802.11ax-HE80 SISO Mode
Mode 11	TX 802.11ax-HE160 SISO Mode
Mode 12	TX 802.11n-HT20 2*2MIMO Mode
Mode 13	TX 802.11n-HT40 2*2MIMO Mode
Mode 14	TX 802.11ac-VHT20 2*2MIMO Mode
Mode 15	TX 802.11ac-VHT40 2*2MIMO Mode
Mode 16	TX 802.11ac-VHT80 2*2MIMO Mode
Mode 17	TX 802.11ac-VHT160 2*2MIMO Mode
Mode 18	TX 802.11ax-HE20 2*2MIMO Mode
Mode 19	TX 802.11ax-HE40 2*2MIMO Mode
Mode 20	TX 802.11ax-HE80 2*2MIMO Mode
Mode 21	TX 802.11ax-HE160 2*2MIMO Mode
Mode 22	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 22	TX Mode
For Radiated Test	
Final Test Mode	Description
Mode 1	TX 802.11a SISO Mode
Mode 2	TX 802.11n-HT20 SISO Mode
Mode 3	TX 802.11n-HT40 SISO Mode
Mode 4	TX 802.11ac-VHT20 SISO Mode
Mode 5	TX 802.11ac-VHT40 SISO Mode
Mode 6	TX 802.11ac-VHT80 SISO Mode
Mode 7	TX 802.11ac-VHT160 SISO Mode
Mode 8	TX 802.11ax-HE20 SISO Mode
Mode 9	TX 802.11ax-HE40 SISO Mode
Mode 10	TX 802.11ax-HE80 SISO Mode
Mode 11	TX 802.11ax-HE160 SISO Mode
Mode 12	TX 802.11n-HT20 2*2MIMO Mode
Mode 13	TX 802.11n-HT40 2*2MIMO Mode
Mode 14	TX 802.11ac-VHT20 2*2MIMO Mode
Mode 15	TX 802.11ac-VHT40 2*2MIMO Mode
Mode 16	TX 802.11ac-VHT80 2*2MIMO Mode
Mode 17	TX 802.11ac-VHT160 2*2MIMO Mode
Mode 18	TX 802.11ax-HE20 2*2MIMO Mode
Mode 19	TX 802.11ax-HE40 2*2MIMO Mode
Mode 20	TX 802.11ax-HE80 2*2MIMO Mode
Mode 21	TX 802.11ax-HE160 2*2MIMO Mode
Mode 22	TX Mode

1.5. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC



1.6. Laboratory Facilities

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. 47 CFR Part 15E Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

According to FCC 15.407(a)(1): For indoor access point in the 5.15-5.25 GHz band, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(2): For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(3): For the band 5.725-5.850 GHz, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

2.1.2. Antenna Information

Antenna Category: FPC Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

For SISO, there is only one transmitter output therefore the directional gain is equal to the antenna gain.

For MIMO, since the EUT is uncorrelated with each other across all Tx chains. The directional gains are as follows:

Operating frequency range	Ant0. Gain (dBi)	Ant1. Gain (dBi)	Uncorrelated Chains Directional gain (dBi)
UNII-1, UNII-2a, UNII-2c, UNII-3	6.33	6.33	6.33

Note 1: Uncorrelated directional gain = $10 \log[(10^{\text{Ant0}/10} + 10^{\text{Ant1}/10}) / N_{\text{ANT}}]$ dBi.

2.1.3. Result: comply

The EUT has two permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Maximum Conducted Output Power

2.2.1. Limit of Maximum Conducted Output Power

FCC Part 15.407(a):

The maximum conducted output power should not exceed:

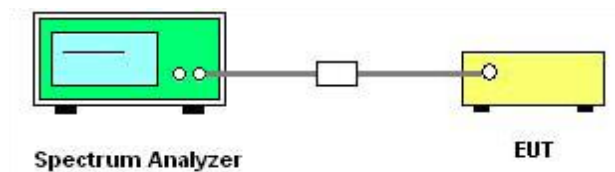
Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☒ Indoor Access Point	1 Watt (30 dBm)
	☐ Mobile and portable client device	250mW (24 dBm)
U-NII-2A	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	☒	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in MHz.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.E.2.b and ANSI C63.10-2020 Section 12.4.2.2.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Power is calculated by integrating over the spectrum of the entire 99% OBW signal using the instrument's band power measurement feature.
4. Set span to encompass the entire 99% OBW of the signal.
5. Set RBW = 1MHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).



6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Replace the EUT center frequency and repeat steps 3~7.



2.2.5. Test Results of Maximum Conducted Output Power

Please refer to APPENDIX A for detail.

2.3. Power spectral density (PSD)

2.3.1. Limit of Power Spectral Density

FCC Part 15.407(a)

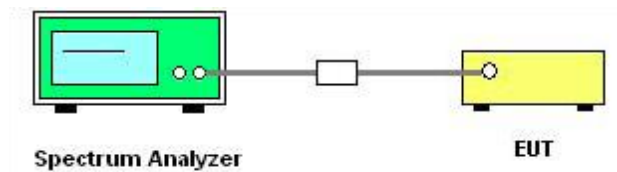
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	17 dBm/MHz
	☐ Fixed point-to-point Access device	
	☒ Indoor Access Point	
	☐ Mobile and portable client device	11 dBm/MHz
U-NII-2A	☒	11 dBm/MHz
U-NII-2C	☒	11 dBm/MHz
U-NII-3	☒	30dBm/500kHz

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.F and ANSI C63.10-2020 Section 12.6.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set span to encompass the entire 99% OBW of the signal.
4. For U-NII-1, U-NII-2a, U-NII-2c Band: Set RBW = 1MHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
5. For U-NII-3 Band: Set RBW = 500kHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.



9. Replace the EUT center frequency and repeat steps 3~8.

2.3.5. Test Result of Power Spectral Density

Please refer to APPENDIX A for detail.

2.4. 26dB Emission Bandwidth and 99% Occupied Bandwidth

2.4.1. Limit of 26dB Emission Bandwidth and 99% Occupied Bandwidth

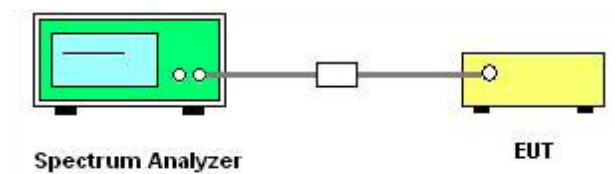
26dB Emission Bandwidth and 99% Occupied Bandwidth no Bandwidth limit.

The minimum 6dB bandwidth of U-NII-3 shall be at least 500 kHz.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Description



2.4.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.C.D and ANSI C63.10-2020 Section 12.5.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 26dB EBW, 6dB EBW and 99% OBW.
4. Set center frequency to the nominal EUT channel center frequency.
5. Set span = 1.5 times to 5.0 times the OBW or EBW.
6. For 26dB EBW and 99% OBW Measurement:
Set RBW = approximately 1% EBW or 1.5 times to 5.0 times the OBW, $VBW \geq 3 \times RBW$.
7. For 6dB EBW Measurement:
Set RBW =100kHz, $VBW \geq 3 \times RBW$.
8. Set Detector = Peak, Trace mode = max hold and Sweep time = auto couple.
9. Allow the trace to stabilize.
10. Replace the EUT center frequency and repeat steps 3~9.



2.4.5. Test Results of 26dB Emission Bandwidth and 99% Occupied Bandwidth

Please refer to APPENDIX A for detail.

2.5. Frequency Stability

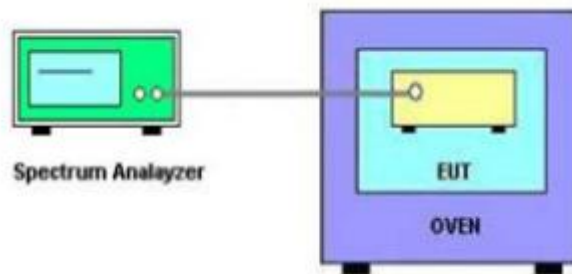
2.5.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.A.3 and ANSI C63.10-2020 Section 6.8.
2. The EUT is installed in an environment test chamber with external power source, was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set the chamber to operate at 50°C and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -30°C to 50°C and 85% to 115% of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Replace the EUT center frequency and repeat steps 3~6.



2.5.5. Test Result of Frequency Stability

Please refer to APPENDIX A for detail.

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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 lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ($\mu\text{V/m}$).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

FCC Part 15.407(b)			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength @3m (dB $\mu\text{V/m}$)
5150 - 5250	Outside of the 5.15~5.35 GHz	-27	68.2
5725 - 5850	< 5650	-27	68.2
	5650~5700	-27~10	68.2~105.2
	5700~5720	10~15.6	105.2~110.8
	5720~5725	15.6~27	110.8~122.2
	5850~5855	27~15.6	122.2~110.8
	5855~5875	15.6~10	110.8~105.2
	5875~5925	10~-27	105.2~68.2
	> 5925	-27	68.2

Note:

- 1) $\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] + 20 \log (d[\text{m}]) - 104.77$, d is the measurement distance in m.
- 2) $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = -27\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 105.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 10\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 110.8 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 15.6\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 122.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 27\text{dBm}$.

Applicable To	Limit	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Field Strength at 3m	
	PK: 68.2(dBμV/m)	AV: 54 (dBμV/m)

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

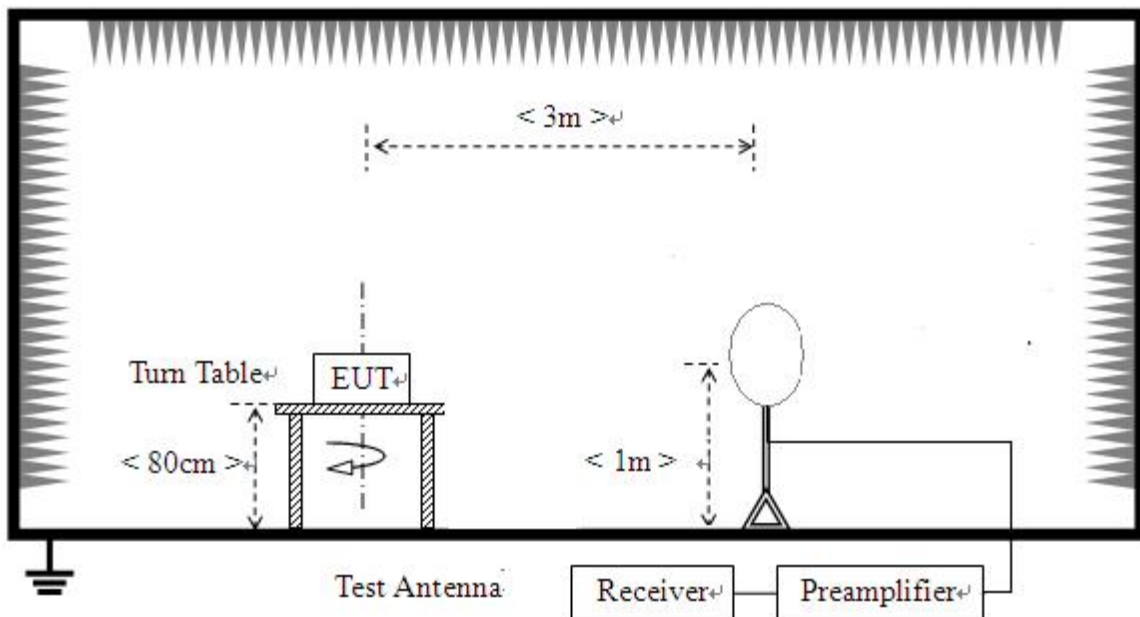
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41	/	/	/
Note: ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6.			

2.6.2. Measuring Instruments

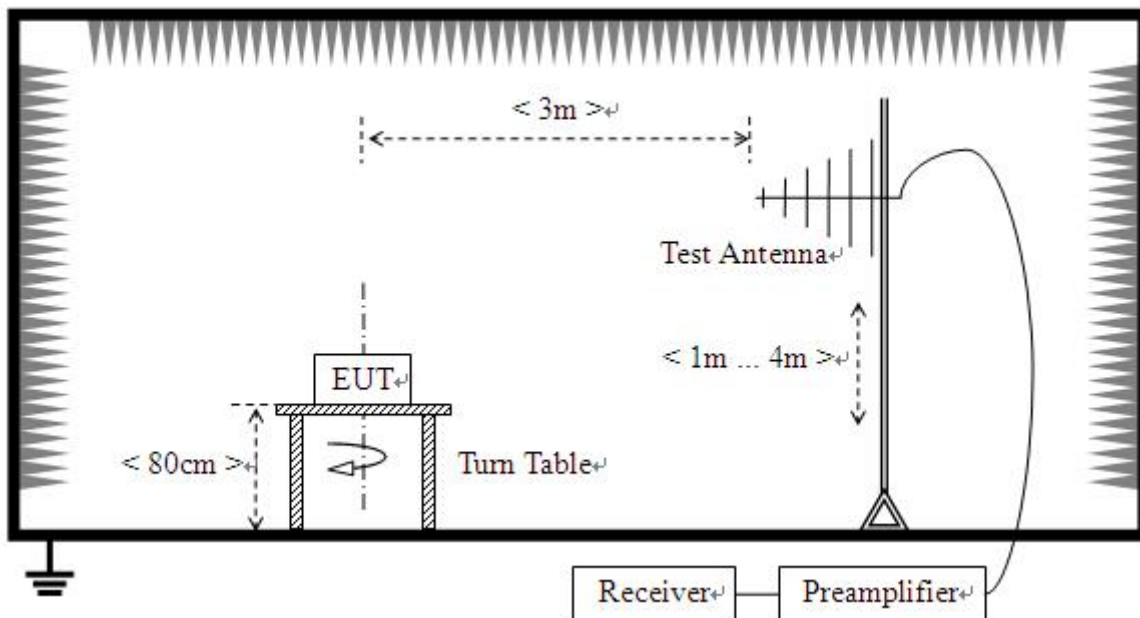
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

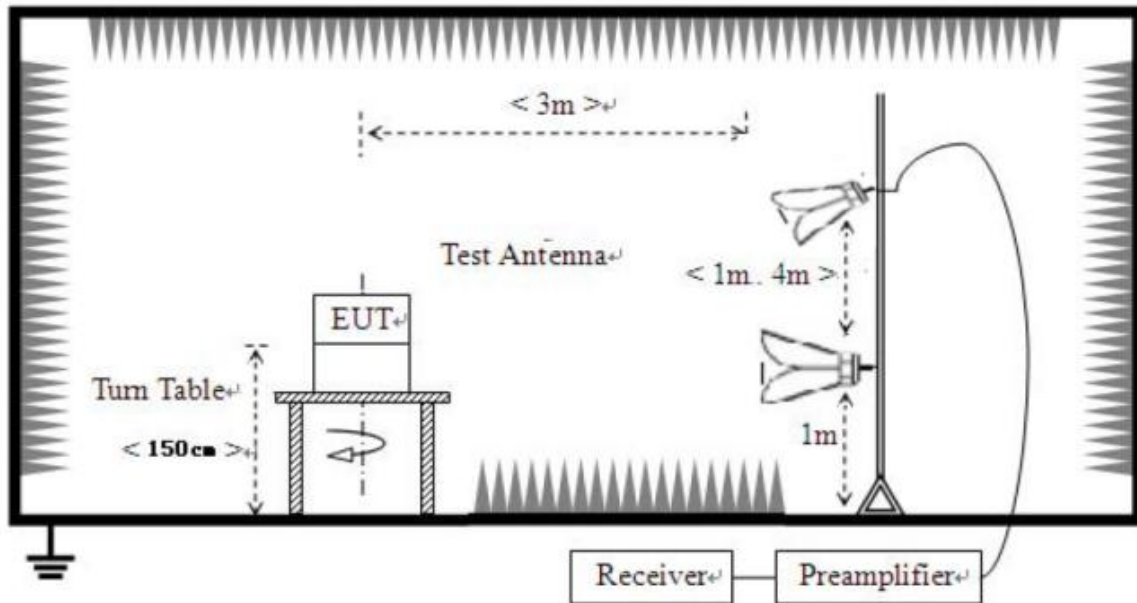
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for

Quasi-peak detection (QP) at frequency below 1 GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. Only worst-Case mode data provide here, 802.11a (20MHz) 5180MHz for Below 1GHz.

2.6.5. Test Result of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

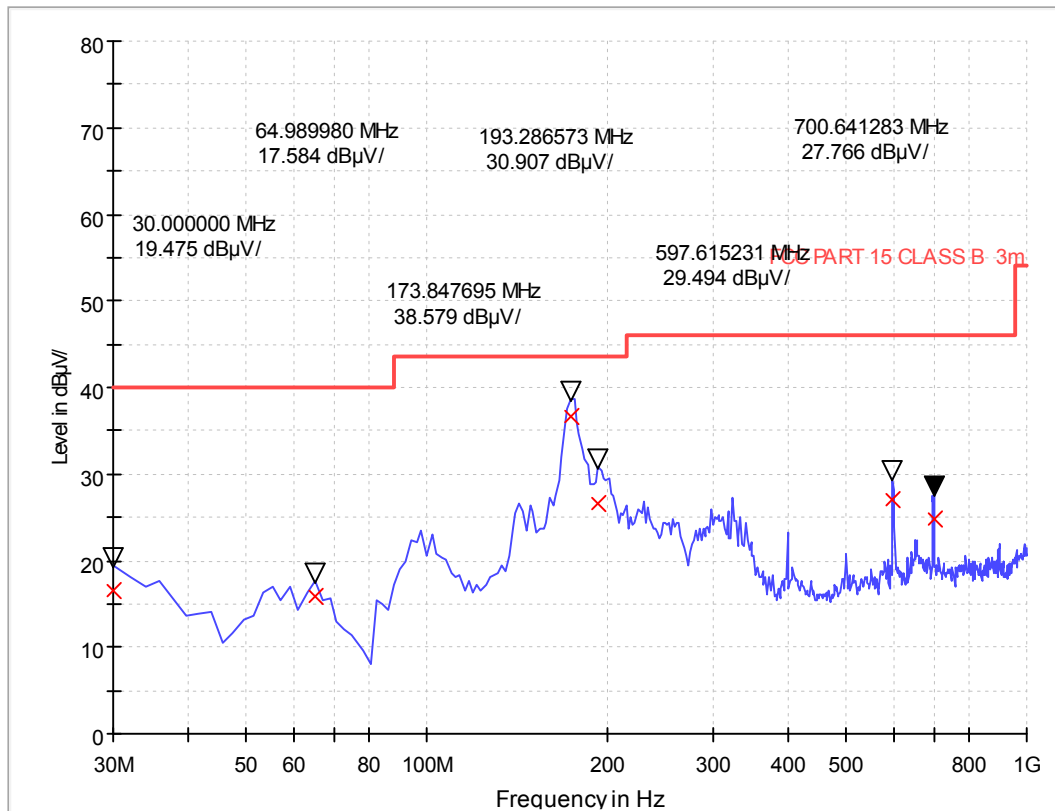
For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11a_5745MHz (Ant0) channel is the worst mode, the worst case is recorded in this report.

For 1GHz to 18GHz, Only worst-case data is reported.

For above 18GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz

Test site:	3M anechoic chamber	Environment:	Temp: 23℃; Humi:48%;101kPa
Operator:	Huang Chaoming	Test Date:	2024.10.12
Test Mode:	5G WIFI - TX	Test Result:	Pass

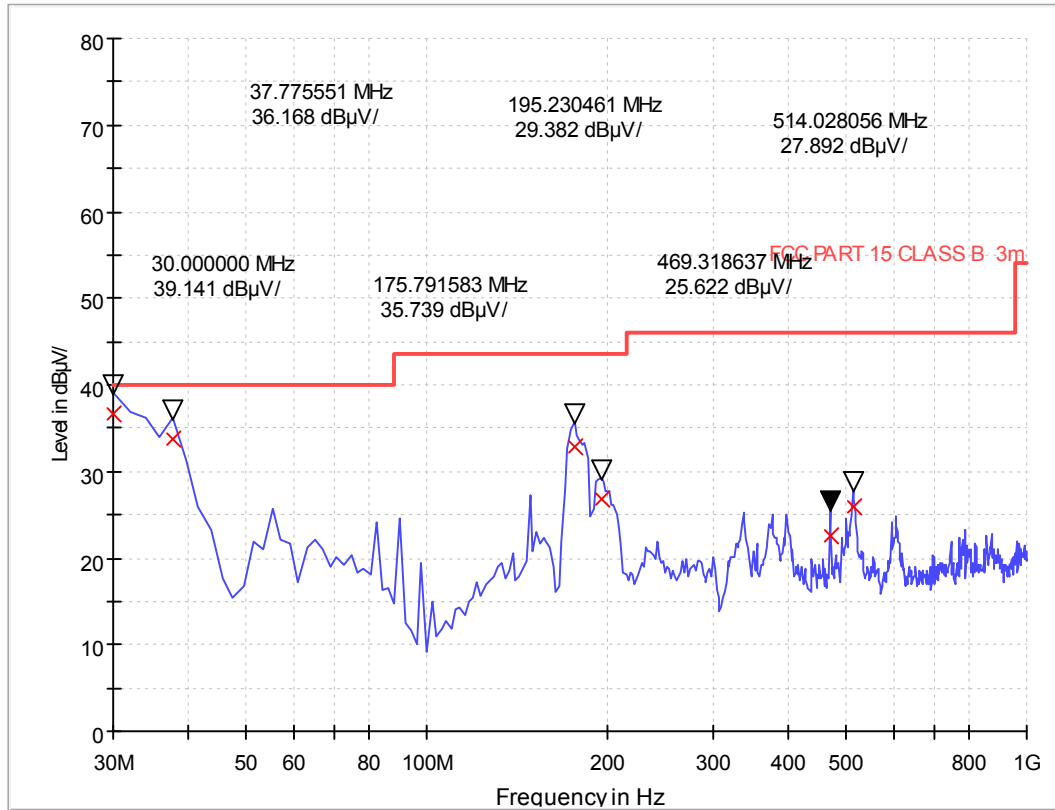


Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK(dB)	Limit - QPK
30.000000	16.52	120.000	100.0	H	19.4	23.48	40.0
65.000000	15.89	120.000	100.0	H	5.9	24.11	40.0
173.840000	36.69	120.000	100.0	H	11.9	6.81	43.5
193.280000	26.69	120.000	100.0	H	11.7	16.81	43.5
597.600000	26.99	120.000	100.0	H	18.9	19.01	46.0
700.640000	24.82	120.000	100.0	H	21.0	21.18	46.0

Remark:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- Margin value = Limit value - Emission Level.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Only the antenna height (from 1m to 4m) at maximum reading are recorded.

Test site:	3M anechoic chamber	Environment:	Temp: 23°C; Humi:48%;101kPa
Operator:	Huang Chaoming	Test Date:	2024.10.12
Test Mode:	5G WIFI - TX	Test Result:	Pass



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	36.62	120.000	100.0	V	19.4	3.38	40.0
37.760000	33.82	120.000	100.0	V	15.3	6.18	40.0
175.800000	32.74	120.000	100.0	V	11.9	10.76	43.5
195.240000	26.86	120.000	100.0	V	11.7	16.64	43.5
469.320000	22.58	120.000	100.0	V	17.9	23.42	46.0
514.040000	25.96	120.000	100.0	V	18.4	20.04	46.0

Remark:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- Margin value = Limit value - Emission Level.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Only the antenna height (from 1m to 4m) at maximum reading are recorded.

For 1GHz to 40 GHz

U-NII-1_802.11a_5180MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	46.74	68.20	-21.46	1.50	200	46.30	0.44	Horizontal	Peak
5150.00	38.08	54.00	-15.92	1.50	200	37.64	0.44	Horizontal	Average
10360.00	53.91	68.20	-14.29	1.50	200	43.45	10.46	Horizontal	Peak
10360.00	44.43	54.00	-9.57	1.50	200	33.97	10.46	Horizontal	Average
5150.00	47.05	68.20	-21.15	1.50	180	46.61	0.44	Vertical	Peak
5150.00	37.92	54.00	-16.08	1.50	180	37.48	0.44	Vertical	Average
10360.00	54.76	68.20	-13.44	1.50	180	44.30	10.46	Vertical	Peak
10360.00	44.29	54.00	-9.71	1.50	180	33.83	10.46	Vertical	Average
U-NII-1_802.11a_5240MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	45.83	68.20	-22.37	1.50	200	45.58	0.25	Horizontal	Peak
5350.00	37.24	54.00	-16.76	1.50	200	36.99	0.25	Horizontal	Average
10480.00	53.82	68.20	-14.38	1.50	200	42.82	11.00	Horizontal	Peak
10480.00	44.24	54.00	-9.76	1.50	200	33.24	11.00	Horizontal	Average
5350.00	45.80	68.20	-22.40	1.50	180	45.55	0.25	Vertical	Peak
5350.00	37.51	54.00	-16.49	1.50	180	37.26	0.25	Vertical	Average
10480.00	54.53	68.20	-13.67	1.50	180	43.53	11.00	Vertical	Peak
10480.00	44.61	54.00	-9.39	1.50	180	33.61	11.00	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-1_802.11n-HT40_5190MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	46.44	68.20	-21.76	1.50	200	46.00	0.44	Horizontal	Peak
5150.00	38.09	54.00	-15.91	1.50	200	37.65	0.44	Horizontal	Average
10380.00	53.83	68.20	-14.37	1.50	200	43.30	10.53	Horizontal	Peak
10380.00	43.60	54.00	-10.40	1.50	200	33.07	10.53	Horizontal	Average
5150.00	47.13	68.20	-21.07	1.50	180	46.69	0.44	Vertical	Peak
5150.00	37.57	54.00	-16.43	1.50	180	37.13	0.44	Vertical	Average
10380.00	54.57	68.20	-13.63	1.50	180	44.04	10.53	Vertical	Peak
10380.00	43.93	54.00	-10.07	1.50	180	33.40	10.53	Vertical	Average

U-NII-1_802.11n-HT40_5230MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	45.51	68.20	-22.69	1.50	200	45.26	0.25	Horizontal	Peak
5350.00	36.90	54.00	-17.10	1.50	200	36.65	0.25	Horizontal	Average
10460.00	53.60	68.20	-14.60	1.50	200	42.69	10.91	Horizontal	Peak
10460.00	43.05	54.00	-10.95	1.50	200	32.14	10.91	Horizontal	Average
5350.00	46.08	68.20	-22.12	1.50	180	45.83	0.25	Vertical	Peak
5350.00	37.52	54.00	-16.48	1.50	180	37.27	0.25	Vertical	Average
10460.00	53.41	68.20	-14.79	1.50	180	42.50	10.91	Vertical	Peak
10460.00	43.91	54.00	-10.09	1.50	180	33.00	10.91	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-1_802.11ac-VHT80_5210MHz - 2x2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	47.15	68.20	-21.05	1.50	200	46.71	0.44	Horizontal	Peak
5150.00	38.64	54.00	-15.36	1.50	200	38.20	0.44	Horizontal	Average
5350.00	45.20	68.20	-23.00	1.50	200	44.95	0.25	Horizontal	Peak
5350.00	36.65	54.00	-17.35	1.50	200	36.40	0.25	Horizontal	Average
10420.00	53.67	68.20	-14.53	1.50	200	42.96	10.71	Horizontal	Peak
10420.00	43.12	54.00	-10.88	1.50	200	32.41	10.71	Horizontal	Average
5150.00	46.91	68.20	-21.29	1.50	180	46.47	0.44	Vertical	Peak
5150.00	36.94	54.00	-17.06	1.50	180	36.50	0.44	Vertical	Average
5350.00	45.97	68.20	-22.23	1.50	180	45.72	0.25	Vertical	Peak
5350.00	37.90	54.00	-16.10	1.50	180	37.65	0.25	Vertical	Average
10420.00	53.06	68.20	-15.14	1.50	180	42.35	10.71	Vertical	Peak
10420.00	43.74	54.00	-10.26	1.50	180	33.03	10.71	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-2A_802.11a_5260MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	46.98	68.20	-21.22	1.50	200	46.54	0.44	Horizontal	Peak
5150.00	39.37	54.00	-14.63	1.50	200	38.93	0.44	Horizontal	Average
10520.00	53.46	68.20	-14.74	1.50	200	42.28	11.18	Horizontal	Peak
10520.00	42.66	54.00	-11.34	1.50	200	31.48	11.18	Horizontal	Average
5150.00	45.97	68.20	-22.23	1.50	180	45.53	0.44	Vertical	Peak
5150.00	36.63	54.00	-17.37	1.50	180	36.19	0.44	Vertical	Average
10520.00	54.14	68.20	-14.06	1.50	180	42.96	11.18	Vertical	Peak
10520.00	44.56	54.00	-9.44	1.50	180	33.38	11.18	Vertical	Average
U-NII-2A_802.11a_5320MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	46.87	68.20	-21.33	1.50	200	46.62	0.25	Horizontal	Peak
5350.00	37.80	54.00	-16.20	1.50	200	37.55	0.25	Horizontal	Average
10640.00	52.97	68.20	-15.23	1.50	200	41.65	11.32	Horizontal	Peak
10640.00	43.97	54.00	-10.03	1.50	200	32.65	11.32	Horizontal	Average
5350.00	46.77	68.20	-21.43	1.50	180	46.52	0.25	Vertical	Peak
5350.00	37.07	54.00	-16.93	1.50	180	36.82	0.25	Vertical	Average
10640.00	54.08	68.20	-14.12	1.50	180	42.76	11.32	Vertical	Peak
10640.00	43.72	54.00	-10.28	1.50	180	32.40	11.32	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-2A_802.11n-HT40_5270MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	47.20	68.20	-21.00	1.50	200	46.76	0.44	Horizontal	Peak
5150.00	39.63	54.00	-14.37	1.50	200	39.19	0.44	Horizontal	Average
10540.00	53.40	68.20	-14.80	1.50	200	42.14	11.26	Horizontal	Peak
10540.00	43.10	54.00	-10.90	1.50	200	31.84	11.26	Horizontal	Average
5150.00	46.09	68.20	-22.11	1.50	180	45.65	0.44	Vertical	Peak
5150.00	36.94	54.00	-17.06	1.50	180	36.50	0.44	Vertical	Average
10540.00	54.24	68.20	-13.96	1.50	180	42.98	11.26	Vertical	Peak
10540.00	44.23	54.00	-9.77	1.50	180	32.97	11.26	Vertical	Average
U-NII-2A_802.11n-HT40_5310MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	46.69	68.20	-21.51	1.50	200	46.44	0.25	Horizontal	Peak
5350.00	36.92	54.00	-17.08	1.50	200	36.67	0.25	Horizontal	Average
10620.00	53.48	68.20	-14.72	1.50	200	42.07	11.41	Horizontal	Peak
10620.00	43.77	54.00	-10.23	1.50	200	32.36	11.41	Horizontal	Average
5350.00	46.68	68.20	-21.52	1.50	180	46.43	0.25	Vertical	Peak
5350.00	37.40	54.00	-16.60	1.50	180	37.15	0.25	Vertical	Average
10620.00	53.86	68.20	-14.34	1.50	180	42.45	11.41	Vertical	Peak
10620.00	43.61	54.00	-10.39	1.50	180	32.20	11.41	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-2A_802.11ac-VHT80_5290MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	47.23	68.20	-20.97	1.50	200	46.79	0.44	Horizontal	Peak
5150.00	38.33	54.00	-15.67	1.50	200	37.89	0.44	Horizontal	Average
5350.00	45.15	68.20	-23.05	1.50	200	44.90	0.25	Horizontal	Peak
5350.00	36.56	54.00	-17.44	1.50	200	36.31	0.25	Horizontal	Average
10580.00	53.91	68.20	-14.29	1.50	200	42.47	11.44	Horizontal	Peak
10580.00	43.40	54.00	-10.60	1.50	200	31.96	11.44	Horizontal	Average
5150.00	47.10	68.20	-21.10	1.50	180	46.66	0.44	Vertical	Peak
5150.00	36.90	54.00	-17.10	1.50	180	36.46	0.44	Vertical	Average
5350.00	46.11	68.20	-22.09	1.50	180	45.86	0.25	Vertical	Peak
5350.00	37.50	54.00	-16.50	1.50	180	37.25	0.25	Vertical	Average
10580.00	52.82	68.20	-15.38	1.50	180	41.38	11.44	Vertical	Peak
10580.00	43.33	54.00	-10.67	1.50	180	31.89	11.44	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-2A_802.11ax-HE160_5250MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	47.06	68.20	-21.14	1.50	200	46.62	0.44	Horizontal	Peak
5150.00	38.70	54.00	-15.30	1.50	200	38.26	0.44	Horizontal	Average
5350.00	45.22	68.20	-22.98	1.50	200	44.97	0.25	Horizontal	Peak
5350.00	36.69	54.00	-17.31	1.50	200	36.44	0.25	Horizontal	Average
10500.00	53.68	68.20	-14.52	1.50	200	42.59	11.09	Horizontal	Peak
10500.00	43.04	54.00	-10.96	1.50	200	31.95	11.09	Horizontal	Average
5150.00	46.25	68.20	-21.95	1.50	180	45.81	0.44	Vertical	Peak
5150.00	36.51	54.00	-17.49	1.50	180	36.07	0.44	Vertical	Average
5350.00	45.54	68.20	-22.66	1.50	180	45.29	0.25	Vertical	Peak
5350.00	37.38	54.00	-16.62	1.50	180	37.13	0.25	Vertical	Average
10500.00	52.32	68.20	-15.88	1.50	180	41.23	11.09	Vertical	Peak
10500.00	43.92	54.00	-10.08	1.50	180	32.83	11.09	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-2C_802.11a_5500MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	47.07	68.20	-21.13	1.50	200	47.11	-0.04	Horizontal	Peak
5470.00	37.90	54.00	-16.10	1.50	200	37.94	-0.04	Horizontal	Average
11000.00	54.41	68.20	-13.79	1.50	200	42.99	11.42	Horizontal	Peak
11000.00	44.23	54.00	-9.77	1.50	200	32.81	11.42	Horizontal	Average
5470.00	45.35	68.20	-22.85	1.50	180	45.39	-0.04	Vertical	Peak
5470.00	37.38	54.00	-16.62	1.50	180	37.42	-0.04	Vertical	Average
11000.00	54.16	68.20	-14.04	1.50	180	42.74	11.42	Vertical	Peak
11000.00	43.98	54.00	-10.02	1.50	180	32.56	11.42	Vertical	Average
U-NII-2C_802.11a_5700MHz - Ant0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	47.69	68.20	-20.51	1.50	200	46.39	1.30	Horizontal	Peak
5725.00	38.06	54.00	-15.94	1.50	200	36.76	1.30	Horizontal	Average
11400.00	54.67	68.20	-13.53	1.50	200	43.20	11.47	Horizontal	Peak
11400.00	44.44	54.00	-9.56	1.50	200	32.97	11.47	Horizontal	Average
5725.00	46.43	68.20	-21.77	1.50	180	45.13	1.30	Vertical	Peak
5725.00	38.14	54.00	-15.86	1.50	180	36.84	1.30	Vertical	Average
11400.00	54.61	68.20	-13.59	1.50	180	43.14	11.47	Vertical	Peak
11400.00	43.73	54.00	-10.27	1.50	180	32.26	11.47	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-2C_802.11n-HT40_5510MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.82	68.20	-21.38	1.50	200	46.86	-0.04	Horizontal	Peak
5470.00	38.44	54.00	-15.56	1.50	200	38.48	-0.04	Horizontal	Average
11020.00	53.39	68.20	-14.81	1.50	200	41.93	11.46	Horizontal	Peak
11020.00	44.02	54.00	-9.98	1.50	200	32.56	11.46	Horizontal	Average
5470.00	45.92	68.20	-22.28	1.50	180	45.96	-0.04	Vertical	Peak
5470.00	36.88	54.00	-17.12	1.50	180	36.92	-0.04	Vertical	Average
11020.00	54.34	68.20	-13.86	1.50	180	42.88	11.46	Vertical	Peak
11020.00	43.78	54.00	-10.22	1.50	180	32.32	11.46	Vertical	Average
U-NII-2C_802.11n-HT40_5670MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	48.49	68.20	-19.71	1.50	200	47.19	1.30	Horizontal	Peak
5725.00	36.71	54.00	-17.29	1.50	200	35.41	1.30	Horizontal	Average
11340.00	53.55	68.20	-14.65	1.50	200	42.13	11.42	Horizontal	Peak
11340.00	42.29	54.00	-11.71	1.50	200	30.87	11.42	Horizontal	Average
5725.00	46.73	68.20	-21.47	1.50	180	45.43	1.30	Vertical	Peak
5725.00	38.76	54.00	-15.24	1.50	180	37.46	1.30	Vertical	Average
11340.00	54.75	68.20	-13.45	1.50	180	43.33	11.42	Vertical	Peak
11340.00	43.96	54.00	-10.04	1.50	180	32.54	11.42	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-2C_802.11ac-VHT80_5530MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.97	68.20	-21.23	1.50	200	47.01	-0.04	Horizontal	Peak
5470.00	39.59	54.00	-14.41	1.50	200	39.63	-0.04	Horizontal	Average
11060.00	52.47	68.20	-15.73	1.50	200	40.94	11.53	Horizontal	Peak
11060.00	44.81	54.00	-9.19	1.50	200	33.28	11.53	Horizontal	Average
5470.00	45.87	68.20	-22.33	1.50	180	45.91	-0.04	Vertical	Peak
5470.00	36.94	54.00	-17.06	1.50	180	36.98	-0.04	Vertical	Average
11060.00	54.12	68.20	-14.08	1.50	180	42.59	11.53	Vertical	Peak
11060.00	43.10	54.00	-10.90	1.50	180	31.57	11.53	Vertical	Average

U-NII-2C_802.11ac-VHT80_5610MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	48.26	68.20	-19.94	1.50	200	46.96	1.30	Horizontal	Peak
5725.00	37.97	54.00	-16.03	1.50	200	36.67	1.30	Horizontal	Average
11220.00	54.39	68.20	-13.81	1.50	200	43.34	11.05	Horizontal	Peak
11220.00	42.90	54.00	-11.10	1.50	200	31.85	11.05	Horizontal	Average
5725.00	46.07	68.20	-22.13	1.50	180	44.77	1.30	Vertical	Peak
5725.00	39.05	54.00	-14.95	1.50	180	37.75	1.30	Vertical	Average
11220.00	55.33	68.20	-12.87	1.50	180	44.28	11.05	Vertical	Peak
11220.00	43.40	54.00	-10.60	1.50	180	32.35	11.05	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-2C_802.11ax-HE160_5570MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.26	68.20	-21.94	1.50	200	46.30	-0.04	Horizontal	Peak
5470.00	39.85	54.00	-14.15	1.50	200	39.89	-0.04	Horizontal	Average
5725.00	47.90	68.20	-20.30	1.50	200	46.60	1.30	Horizontal	Peak
5725.00	37.67	54.00	-16.33	1.50	200	36.37	1.30	Horizontal	Average
11140.00	54.50	68.20	-13.70	1.50	200	43.15	11.35	Horizontal	Peak
11140.00	42.81	54.00	-11.19	1.50	200	31.46	11.35	Horizontal	Average
5470.00	45.40	68.20	-22.80	1.50	180	45.44	-0.04	Vertical	Peak
5470.00	36.86	54.00	-17.14	1.50	180	36.90	-0.04	Vertical	Average
5725.00	46.02	68.20	-22.18	1.50	180	44.72	1.30	Vertical	Peak
5725.00	39.40	54.00	-14.60	1.50	180	38.10	1.30	Vertical	Average
11140.00	55.30	68.20	-12.90	1.50	180	43.95	11.35	Vertical	Peak
11140.00	43.11	54.00	-10.89	1.50	180	31.76	11.35	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-3_802.11a_5745MHz - Ant0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	51.59	68.20	-16.61	1.50	200	50.79	0.80	Horizontal	Peak
5700.00	53.11	105.20	-52.09	1.50	200	51.87	1.24	Horizontal	Peak
5720.00	52.83	110.80	-57.97	1.50	200	51.55	1.28	Horizontal	Peak
5725.00	51.18	122.20	-71.02	1.50	200	49.88	1.30	Horizontal	Peak
11490.00	53.92	68.20	-14.28	1.50	200	42.37	11.55	Horizontal	Peak
11490.00	43.51	54.00	-10.49	1.50	200	31.96	11.55	Horizontal	Average
5650.00	49.80	68.20	-18.40	1.50	180	49.00	0.80	Vertical	Peak
5700.00	51.06	105.20	-54.14	1.50	180	49.82	1.24	Vertical	Peak
5720.00	51.56	110.80	-59.24	1.50	180	50.28	1.28	Vertical	Peak
5725.00	51.44	122.20	-70.76	1.50	180	50.14	1.30	Vertical	Peak
11490.00	52.62	68.20	-15.58	1.50	180	41.07	11.55	Vertical	Peak
11490.00	44.13	54.00	-9.87	1.50	180	32.58	11.55	Vertical	Average
U-NII-3_802.11a_5825MHz - Ant0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	51.44	122.20	-70.76	1.50	200	49.62	1.82	Horizontal	Peak
5855.00	52.34	110.80	-58.46	1.50	200	50.49	1.85	Horizontal	Peak
5875.00	51.10	105.20	-54.10	1.50	200	49.12	1.98	Horizontal	Peak
5925.00	52.42	68.20	-15.78	1.50	200	50.30	2.12	Horizontal	Peak
11650.00	53.81	68.20	-14.39	1.50	200	42.17	11.64	Horizontal	Peak
11650.00	43.68	54.00	-10.32	1.50	200	32.04	11.64	Horizontal	Average
5850.00	51.57	122.20	-70.63	1.50	180	49.75	1.82	Vertical	Peak
5855.00	51.23	110.80	-59.57	1.50	180	49.38	1.85	Vertical	Peak
5875.00	52.74	105.20	-52.46	1.50	180	50.76	1.98	Vertical	Peak
5925.00	51.19	68.20	-17.01	1.50	180	49.07	2.12	Vertical	Peak
11650.00	52.51	68.20	-15.69	1.50	180	40.87	11.64	Vertical	Peak
11650.00	44.44	54.00	-9.56	1.50	180	32.80	11.64	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11n-HT40_5755MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	51.50	68.20	-16.70	1.50	200	50.70	0.80	Horizontal	Peak
5700.00	52.70	105.20	-52.50	1.50	200	51.46	1.24	Horizontal	Peak
5720.00	53.37	110.80	-57.43	1.50	200	52.09	1.28	Horizontal	Peak
5725.00	51.22	122.20	-70.98	1.50	200	49.92	1.30	Horizontal	Peak
11510.00	53.70	68.20	-14.50	1.50	200	42.14	11.56	Horizontal	Peak
11510.00	43.32	54.00	-10.68	1.50	200	31.76	11.56	Horizontal	Average
5650.00	50.53	68.20	-17.67	1.50	180	49.73	0.80	Vertical	Peak
5700.00	50.54	105.20	-54.66	1.50	180	49.30	1.24	Vertical	Peak
5720.00	51.53	110.80	-59.27	1.50	180	50.25	1.28	Vertical	Peak
5725.00	51.27	122.20	-70.93	1.50	180	49.97	1.30	Vertical	Peak
11510.00	53.11	68.20	-15.09	1.50	180	41.55	11.56	Vertical	Peak
11510.00	44.22	54.00	-9.78	1.50	180	32.66	11.56	Vertical	Average
U-NII-3_802.11n-HT40_5795MHz - 2×2 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	51.49	122.20	-70.71	1.50	200	49.67	1.82	Horizontal	Peak
5855.00	52.38	110.80	-58.42	1.50	200	50.53	1.85	Horizontal	Peak
5875.00	51.59	105.20	-53.61	1.50	200	49.61	1.98	Horizontal	Peak
5925.00	53.38	68.20	-14.82	1.50	200	51.26	2.12	Horizontal	Peak
11590.00	53.31	68.20	-14.89	1.50	200	41.80	11.51	Horizontal	Peak
11590.00	43.99	54.00	-10.01	1.50	200	32.48	11.51	Horizontal	Average
5850.00	52.48	122.20	-69.72	1.50	180	50.66	1.82	Vertical	Peak
5855.00	51.26	110.80	-59.54	1.50	180	49.41	1.85	Vertical	Peak
5875.00	52.43	105.20	-52.77	1.50	180	50.45	1.98	Vertical	Peak
5925.00	51.08	68.20	-17.12	1.50	180	48.96	2.12	Vertical	Peak
11590.00	51.70	68.20	-16.50	1.50	180	40.19	11.51	Vertical	Peak
11590.00	44.55	54.00	-9.45	1.50	180	33.04	11.51	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11ac-VHT80_5775MHz - 2×2 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	51.46	68.20	-16.74	1.50	200	50.66	0.80	Horizontal	Peak
5700.00	52.37	105.20	-52.83	1.50	200	51.13	1.24	Horizontal	Peak
5720.00	53.07	110.80	-57.73	1.50	200	51.79	1.28	Horizontal	Peak
5725.00	51.06	122.20	-71.14	1.50	200	49.76	1.30	Horizontal	Peak
5850.00	51.15	122.20	-71.05	1.50	200	49.33	1.82	Horizontal	Peak
5855.00	52.67	110.80	-58.13	1.50	200	50.82	1.85	Horizontal	Peak
5875.00	51.61	105.20	-53.59	1.50	200	49.63	1.98	Horizontal	Peak
5925.00	52.89	68.20	-15.31	1.50	200	50.77	2.12	Horizontal	Peak
11550.00	53.14	68.20	-15.06	1.50	200	41.60	11.54	Horizontal	Peak
11550.00	43.88	54.00	-10.12	1.50	200	32.34	11.54	Horizontal	Average
5650.00	50.00	68.20	-18.20	1.50	180	49.20	0.80	Vertical	Peak
5700.00	50.22	105.20	-54.98	1.50	180	48.98	1.24	Vertical	Peak
5720.00	50.79	110.80	-60.01	1.50	180	49.51	1.28	Vertical	Peak
5725.00	50.88	122.20	-71.32	1.50	180	49.58	1.30	Vertical	Peak
5850.00	51.87	122.20	-70.33	1.50	180	50.05	1.82	Vertical	Peak
5855.00	50.99	110.80	-59.81	1.50	180	49.14	1.85	Vertical	Peak
5875.00	51.68	105.20	-53.52	1.50	180	49.70	1.98	Vertical	Peak
5925.00	51.21	68.20	-16.99	1.50	180	49.09	2.12	Vertical	Peak
11550.00	52.43	68.20	-15.77	1.50	180	40.89	11.54	Vertical	Peak
11550.00	44.73	54.00	-9.27	1.50	180	33.19	11.54	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC Part 15.207:

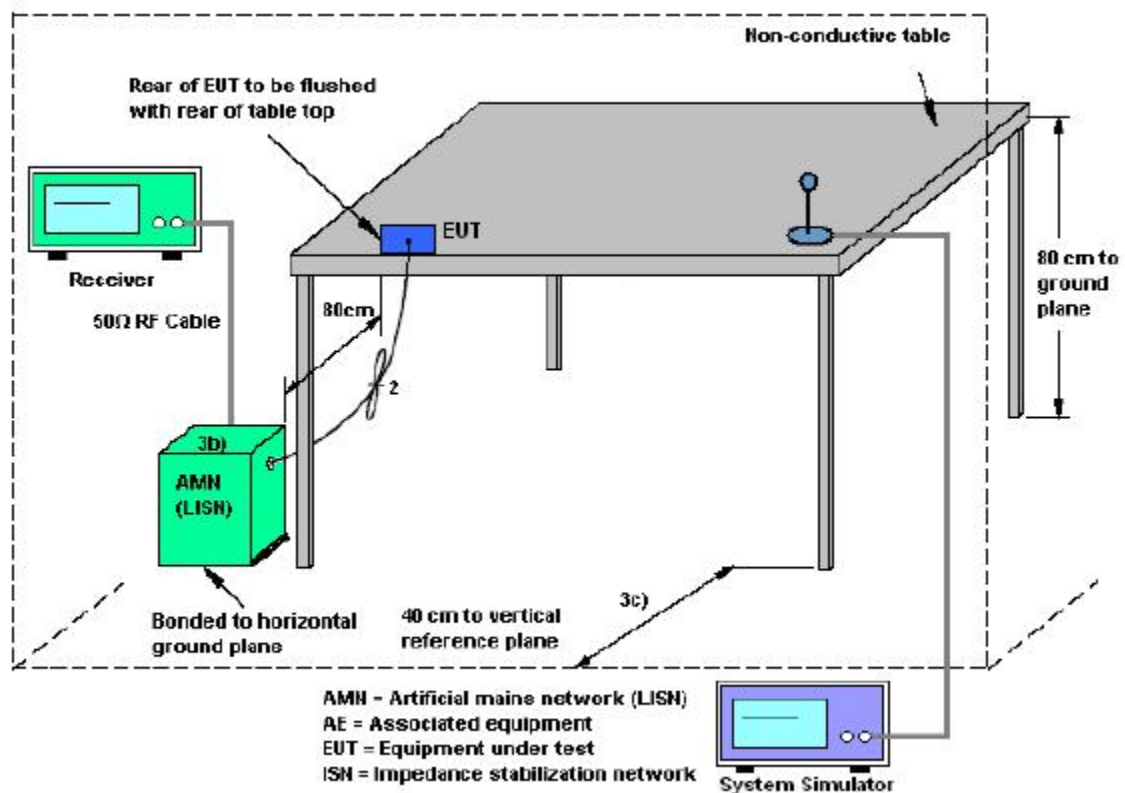
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

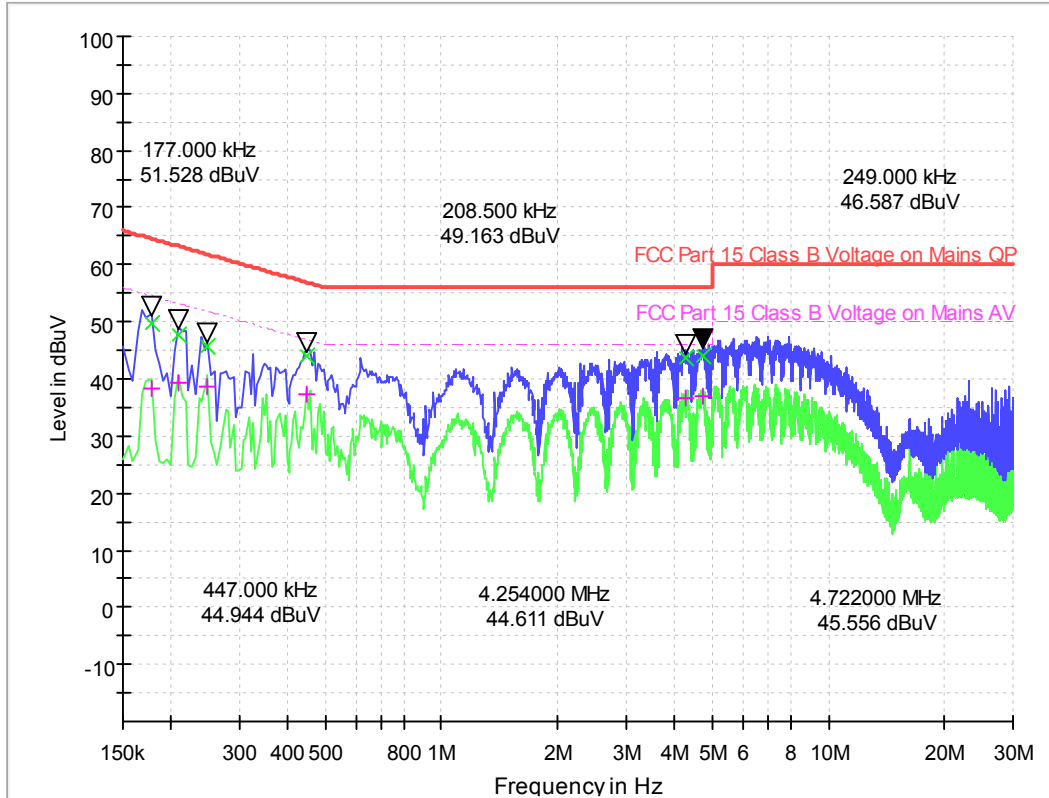
2.7.5. Test Result of AC Power Line Conducted Emission

The EUT configuration of the emission tests is 5G WLAN Link + Charging from Adapter.

All of the EUT Configure mode were tested and found 802.11a_5745MHz(Ant0) channel is the worst mode, the worst case is recorded in this report.

Project Information

Test site:	Shield ROOM 1	Environment:	Temp: 23℃; Humi:53%;101kPa
Operator:	LI QINGLONG	Test Date:	2024.10.12
Test Mode:	5G WIFI - TX	Test Part:	L



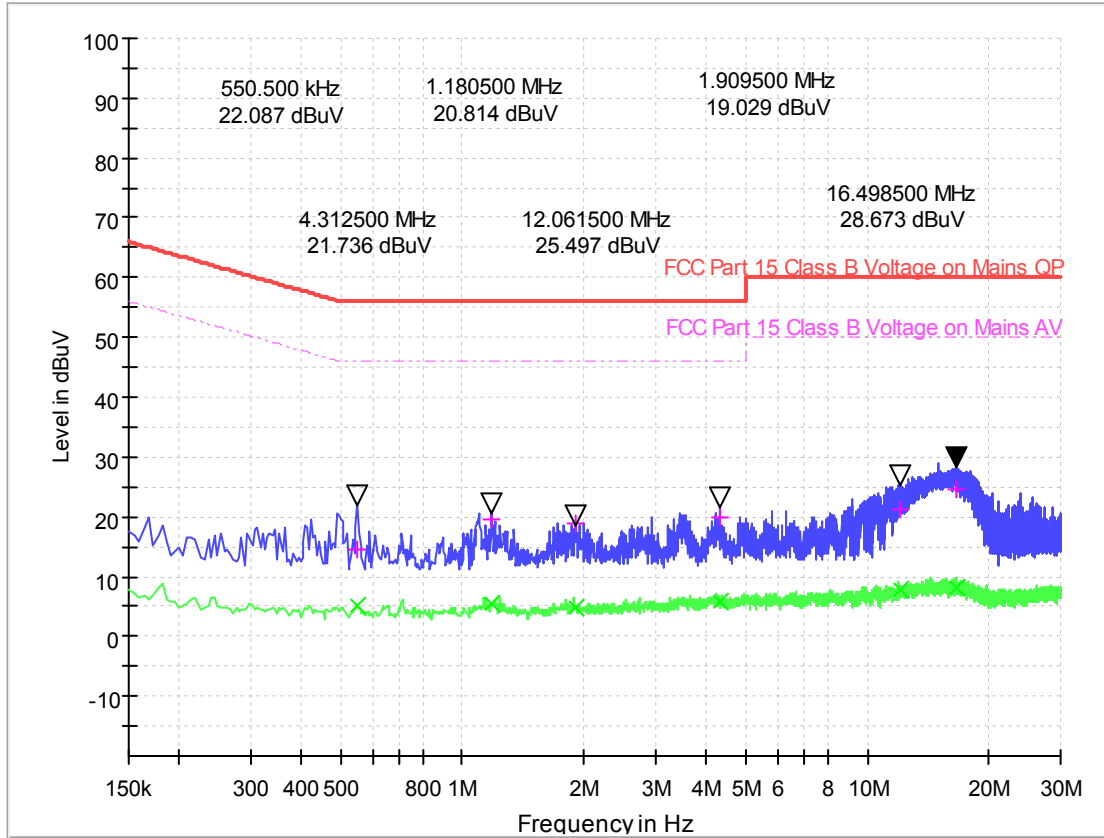
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.177000	49.79	38.26	20.4	14.83	64.6	16.37	54.6
0.208500	47.62	39.20	20.4	15.64	63.3	14.06	53.3
0.249000	45.62	38.53	20.4	16.17	61.8	13.26	51.8
0.447000	44.10	37.30	20.4	12.84	56.9	9.63	46.9
4.254000	43.54	36.70	20.2	12.46	56.0	9.30	46.0
4.722000	44.15	37.10	20.2	11.85	56.0	8.90	46.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.

Project Information

Test site:	Shield ROOM 1	Environment:	Temp: 23°C; Humi:53%;101kPa
Operator:	LI QINGLONG	Test Date:	2024.10.12
Test Mode:	5G WIFI - TX	Test Part:	N



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.172500	51.23	39.18	20.1	13.60	64.8	15.66	54.8
0.208500	49.15	40.87	20.1	14.11	63.3	12.40	53.3
0.244500	45.98	39.63	20.2	15.96	61.9	12.31	51.9
0.451500	44.57	38.30	20.2	12.28	56.8	8.55	46.8
4.272000	43.43	36.43	19.9	12.57	56.0	9.57	46.0
4.704000	43.99	37.06	19.9	12.01	56.0	8.94	46.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2023.08.01	2026.07.31
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2024.05.23	2025.05.22
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2026.06.07
5	EMI Horn Ant. (1-18G)	ETC	MCTD-1209	A150402241	2023.05.16	2026.05.15
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2026.05.31
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2023.10.20	2024.10.19
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2023.10.20	2024.10.19
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2024.01.18	2025.01.17
10	Test Receiver	R&S	ESIB7	A0501375	2024.02.28	2025.02.27
11	Broadband Ant.	ETC	MCTD 2786	A150402240	2023.05.22	2026.05.21
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2024.02.27	2027.02.26
13	Temperature chamber	ESPEC	SU-642	A150802409	2024.02.22	2025.02.21
14	Test Receiver	KEYSIGHT	N9038A	A141202036	2024.06.05	2025.06.04
15	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2024.05.23	2025.05.22
16	Power Supply	R&S	WYJ-60100	A141102031	2023.07.12	2026.07.11

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
--	-------

Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
--	-------

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
--	--------

Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
--	-------

Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
--	-------

Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
--	-------

Uncertainty of Occupied Bandwidth Measurement

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2%
--	------

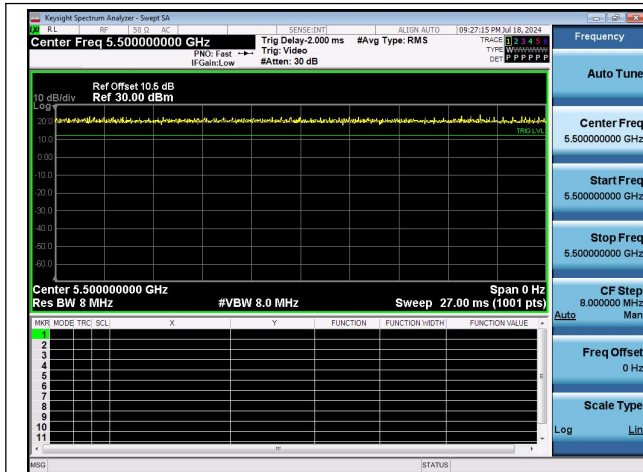
Appendix A

Duty Cycle

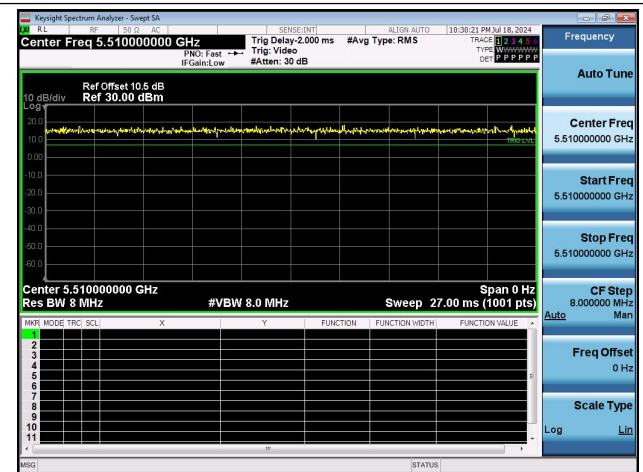
Test Result and Data

TestMode	Antenna	ON Time[ms]	Period[ms]	Duty Cycle[%]	DC Factor
11A	Ant0	27.00	27.00	100.00	0.00
11A	Ant1	27.00	27.00	100.00	0.00
11N20MIMO	Ant0	27.00	27.00	100.00	0.00
11N20MIMO	Ant1	27.00	27.00	100.00	0.00
11N40MIMO	Ant0	27.00	27.00	100.00	0.00
11N40MIMO	Ant1	27.00	27.00	100.00	0.00
11AC20MIMO	Ant0	27.00	27.00	100.00	0.00
11AC20MIMO	Ant1	27.00	27.00	100.00	0.00
11AC40MIMO	Ant0	27.00	27.00	100.00	0.00
11AC40MIMO	Ant1	27.00	27.00	100.00	0.00
11AC80MIMO	Ant0	27.00	27.00	100.00	0.00
11AC80MIMO	Ant1	27.00	27.00	100.00	0.00
11AC160MIMO	Ant0	27.00	27.00	100.00	0.00
11AC160MIMO	Ant1	27.00	27.00	100.00	0.00
11AX20MIMO	Ant0	27.00	27.00	100.00	0.00
11AX20MIMO	Ant1	27.00	27.00	100.00	0.00
11AX40MIMO	Ant0	27.00	27.00	100.00	0.00
11AX40MIMO	Ant1	27.00	27.00	100.00	0.00
11AX80MIMO	Ant0	27.00	27.00	100.00	0.00
11AX80MIMO	Ant1	27.00	27.00	100.00	0.00
11AX160MIMO	Ant0	27.00	27.00	100.00	0.00
11AX160MIMO	Ant1	27.00	27.00	100.00	0.00

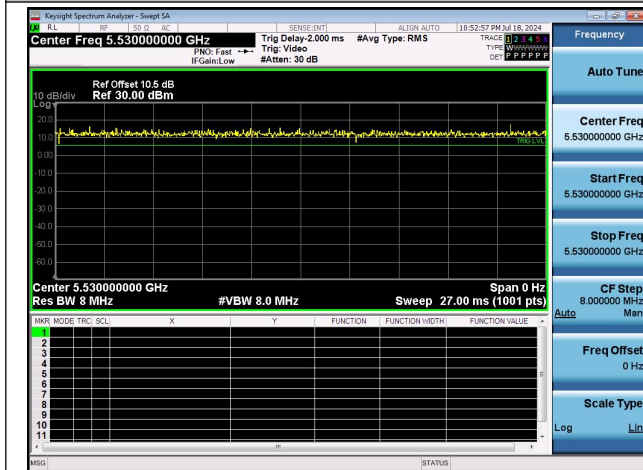
Test Graphs



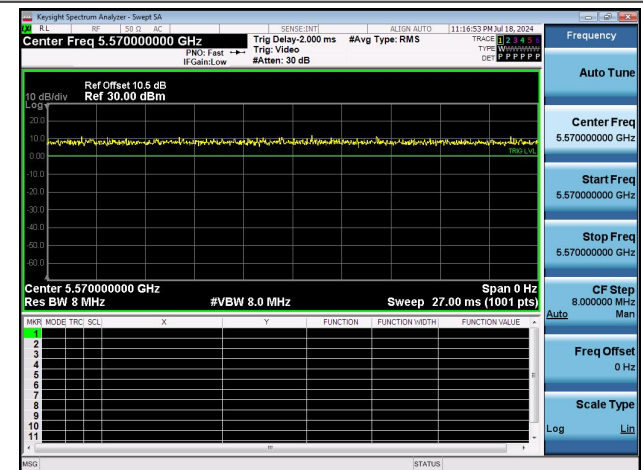
NTNV-11A-Ant0-5500



NTNV-11N40MIMO-Ant0-5510



NTNV-11AC80MIMO-Ant0-5530



NTNV-11AX160MIMO-Ant0-5570

Note: Only UNII-2C 20MHz&40MHz&80MHz&160MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.

Maximum Conducted Output Power

Test Result and Data

TestMode	Antenna	Frequency [MHz]	Power [dBm]	DC Factor [dBm]	Total Power (dBm)	Power Limit [dBm]	Verdict
11A	Ant0	5180	18.22	0.00	/	≤29.67	PASS
11A	Ant1	5180	17.82	0.00	/	≤29.67	PASS
11A	Ant0	5200	18.93	0.00	/	≤29.67	PASS
11A	Ant1	5200	18.39	0.00	/	≤29.67	PASS
11A	Ant0	5240	18.91	0.00	/	≤29.67	PASS
11A	Ant1	5240	18.28	0.00	/	≤29.67	PASS
11N20MIMO	Ant0	5180	14.18	0.00	17.04	≤29.67	PASS
11N20MIMO	Ant1	5180	13.88	0.00		≤29.67	PASS
11N20MIMO	Ant0	5200	14.93	0.00	17.72	≤29.67	PASS
11N20MIMO	Ant1	5200	14.48	0.00		≤29.67	PASS
11N20MIMO	Ant0	5240	15.17	0.00	17.86	≤29.67	PASS
11N20MIMO	Ant1	5240	14.51	0.00		≤29.67	PASS
11N40MIMO	Ant1	5190	13.62	0.00	17.03	≤29.67	PASS
11N40MIMO	Ant0	5190	14.39	0.00		≤29.67	PASS
11N40MIMO	Ant1	5230	14.20	0.00	17.63	≤29.67	PASS
11N40MIMO	Ant0	5230	15.00	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5180	14.17	0.00	16.80	≤29.67	PASS
11AC20MIMO	Ant1	5180	13.38	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5200	14.92	0.00	17.48	≤29.67	PASS
11AC20MIMO	Ant1	5200	13.97	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5240	15.18	0.00	17.63	≤29.67	PASS
11AC20MIMO	Ant1	5240	13.98	0.00		≤29.67	PASS
11AC40MIMO	Ant0	5190	14.38	0.00	16.96	≤29.67	PASS
11AC40MIMO	Ant1	5190	13.48	0.00		≤29.67	PASS
11AC40MIMO	Ant0	5230	14.98	0.00	17.58	≤29.67	PASS
11AC40MIMO	Ant1	5230	14.12	0.00		≤29.67	PASS
11AC80MIMO	Ant0	5210	14.16	0.00	16.69	≤29.67	PASS
11AC80MIMO	Ant1	5210	13.13	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5180	14.35	0.00	16.94	≤29.67	PASS
11AX20MIMO	Ant1	5180	13.46	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5200	15.09	0.00	17.64	≤29.67	PASS
11AX20MIMO	Ant1	5200	14.11	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5240	15.20	0.00	17.65	≤29.67	PASS
11AX20MIMO	Ant1	5240	13.99	0.00		≤29.67	PASS
11AX40MIMO	Ant0	5190	14.34	0.00	16.92	≤29.67	PASS
11AX40MIMO	Ant1	5190	13.43	0.00		≤29.67	PASS
11AX40MIMO	Ant0	5230	14.98	0.00	17.51	≤29.67	PASS



11AX40MIMO	Ant1	5230	13.97	0.00		≤29.67	PASS
11AX80MIMO	Ant0	5210	14.13	0.00	16.72	≤29.67	PASS
11AX80MIMO	Ant1	5210	13.24	0.00		≤29.67	PASS



TestMode	Antenna	Frequency [MHz]	Power [dBm]	DC Factor [dBm]	Total Power (dBm)	Power Limit [dBm]	Verdict
11A	Ant0	5260	18.79	0.00	/	≤23.65	PASS
11A	Ant1	5260	18.15	0.00	/	≤23.65	PASS
11A	Ant0	5300	18.13	0.00	/	≤23.65	PASS
11A	Ant1	5300	17.58	0.00	/	≤23.65	PASS
11A	Ant0	5320	18.14	0.00	/	≤23.65	PASS
11A	Ant1	5320	17.31	0.00	/	≤23.65	PASS
11N20MIMO	Ant0	5260	15.01	0.00	17.70	≤23.65	PASS
11N20MIMO	Ant1	5260	14.34	0.00		≤23.65	PASS
11N20MIMO	Ant0	5300	14.28	0.00	17.05	≤23.65	PASS
11N20MIMO	Ant1	5300	13.78	0.00		≤23.65	PASS
11N20MIMO	Ant0	5320	14.33	0.00	17.01	≤23.65	PASS
11N20MIMO	Ant1	5320	13.64	0.00		≤23.65	PASS
11N40MIMO	Ant0	5270	14.78	0.00	17.41	≤23.65	PASS
11N40MIMO	Ant1	5270	13.98	0.00		≤23.65	PASS
11N40MIMO	Ant0	5310	14.30	0.00	17.11	≤23.65	PASS
11N40MIMO	Ant1	5310	13.88	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5260	15.01	0.00	17.68	≤23.65	PASS
11AC20MIMO	Ant1	5260	14.31	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5300	14.28	0.00	17.09	≤23.65	PASS
11AC20MIMO	Ant1	5300	13.86	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5320	14.35	0.00	17.01	≤23.65	PASS
11AC20MIMO	Ant1	5320	13.61	0.00		≤23.65	PASS
11AC40MIMO	Ant0	5270	14.75	0.00	17.42	≤23.65	PASS
11AC40MIMO	Ant1	5270	14.05	0.00		≤23.65	PASS
11AC40MIMO	Ant0	5310	14.27	0.00	17.05	≤23.65	PASS
11AC40MIMO	Ant1	5310	13.80	0.00		≤23.65	PASS
11AC80MIMO	Ant0	5290	13.65	0.00	16.44	≤23.65	PASS
11AC80MIMO	Ant1	5290	13.20	0.00		≤23.65	PASS
11AC160SISO	Ant0	5250_UNII-1	12.14	0.00	14.70	≤29.67	PASS
11AC160SISO	Ant1	5250_UNII-1	11.18	0.00		≤29.67	PASS
11AC160SISO	Ant0	5250_UNII-2A	12.66	0.00	15.37	≤23.65	PASS
11AC160SISO	Ant1	5250_UNII-2A	12.03	0.00		≤23.65	PASS
11AX20MIMO	Ant0	5260	15.01	0.00	17.74	≤23.65	PASS
11AX20MIMO	Ant1	5260	14.42	0.00		≤23.65	PASS
11AX20MIMO	Ant0	5300	14.44	0.00	17.22	≤23.65	PASS
11AX20MIMO	Ant1	5300	13.96	0.00		≤23.65	PASS
11AX20MIMO	Ant0	5320	14.36	0.00	17.05	≤23.65	PASS
11AX20MIMO	Ant1	5320	13.70	0.00		≤23.65	PASS
11AX40MIMO	Ant0	5270	14.73	0.00	17.40	≤23.65	PASS
11AX40MIMO	Ant1	5270	14.01	0.00		≤23.65	PASS



11AX40MIMO	Ant0	5310	14.26	0.00	17.06	≤23.65	PASS
11AX40MIMO	Ant1	5310	13.83	0.00		≤23.65	PASS
11AX80MIMO	Ant0	5290	13.74	0.00	16.51	≤23.65	PASS
11AX80MIMO	Ant1	5290	13.25	0.00		≤23.65	PASS
11AX160SISO	Ant0	5250_UNII-1	12.06	0.00	14.63	≤29.67	PASS
11AX160SISO	Ant1	5250_UNII-1	11.12	0.00		≤29.67	PASS
11AX160SISO	Ant0	5250_UNII-2A	12.60	0.00	15.29	≤23.65	PASS
11AX160SISO	Ant1	5250_UNII-2A	11.93	0.00		≤23.65	PASS



TestMode	Antenna	Frequency [MHz]	Power [dBm]	DC Factor [dBm]	Total Power (dBm)	Power Limit [dBm]	Verdict
11A	Ant0	5500	17.71	0.00	/	≤23.65	PASS
11A	Ant1	5500	17.48	0.00	/	≤23.65	PASS
11A	Ant0	5580	18.77	0.00	/	≤23.65	PASS
11A	Ant1	5580	18.97	0.00	/	≤23.65	PASS
11A	Ant0	5700	19.25	0.00	/	≤23.65	PASS
11A	Ant1	5700	19.20	0.00	/	≤23.65	PASS
11N20MIMO	Ant0	5500	13.93	0.00	16.71	≤23.65	PASS
11N20MIMO	Ant1	5500	13.46	0.00		≤23.65	PASS
11N20MIMO	Ant0	5580	14.97	0.00	17.97	≤23.65	PASS
11N20MIMO	Ant1	5580	14.94	0.00		≤23.65	PASS
11N20MIMO	Ant0	5700	15.34	0.00	18.23	≤23.65	PASS
11N20MIMO	Ant1	5700	15.09	0.00		≤23.65	PASS
11N40MIMO	Ant0	5510	14.51	0.00	17.18	≤23.65	PASS
11N40MIMO	Ant1	5510	13.81	0.00		≤23.65	PASS
11N40MIMO	Ant0	5550	14.61	0.00	17.56	≤23.65	PASS
11N40MIMO	Ant1	5550	14.48	0.00		≤23.65	PASS
11N40MIMO	Ant0	5670	15.14	0.00	18.04	≤23.65	PASS
11N40MIMO	Ant1	5670	14.91	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5500	13.93	0.00	16.72	≤23.65	PASS
11AC20MIMO	Ant1	5500	13.47	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5580	14.95	0.00	17.90	≤23.65	PASS
11AC20MIMO	Ant1	5580	14.82	0.00		≤23.65	PASS
11AC20MIMO	Ant0	5700	15.31	0.00	18.19	≤23.65	PASS
11AC20MIMO	Ant1	5700	15.04	0.00		≤23.65	PASS
11AC40MIMO	Ant0	5510	14.22	0.00	17.05	≤23.65	PASS
11AC40MIMO	Ant1	5510	13.85	0.00		≤23.65	PASS
11AC40MIMO	Ant0	5550	14.58	0.00	17.53	≤23.65	PASS
11AC40MIMO	Ant1	5550	14.46	0.00		≤23.65	PASS
11AC40MIMO	Ant0	5670	15.14	0.00	18.06	≤23.65	PASS
11AC40MIMO	Ant1	5670	14.96	0.00		≤23.65	PASS
11AC80MIMO	Ant0	5530	14.90	0.00	17.61	≤23.65	PASS
11AC80MIMO	Ant1	5530	14.28	0.00		≤23.65	PASS
11AC80MIMO	Ant0	5610	14.54	0.00	17.81	≤23.65	PASS
11AC80MIMO	Ant1	5610	15.04	0.00		≤23.65	PASS
11AC160MIMO	Ant0	5570	14.82	0.00	18.24	≤23.65	PASS
11AC160MIMO	Ant1	5570	15.60	0.00		≤23.65	PASS
11AX20MIMO	Ant0	5500	13.97	0.00	16.81	≤23.65	PASS
11AX20MIMO	Ant1	5500	13.62	0.00		≤23.65	PASS
11AX20MIMO	Ant0	5580	15.03	0.00	18.01	≤23.65	PASS
11AX20MIMO	Ant1	5580	14.96	0.00		≤23.65	PASS



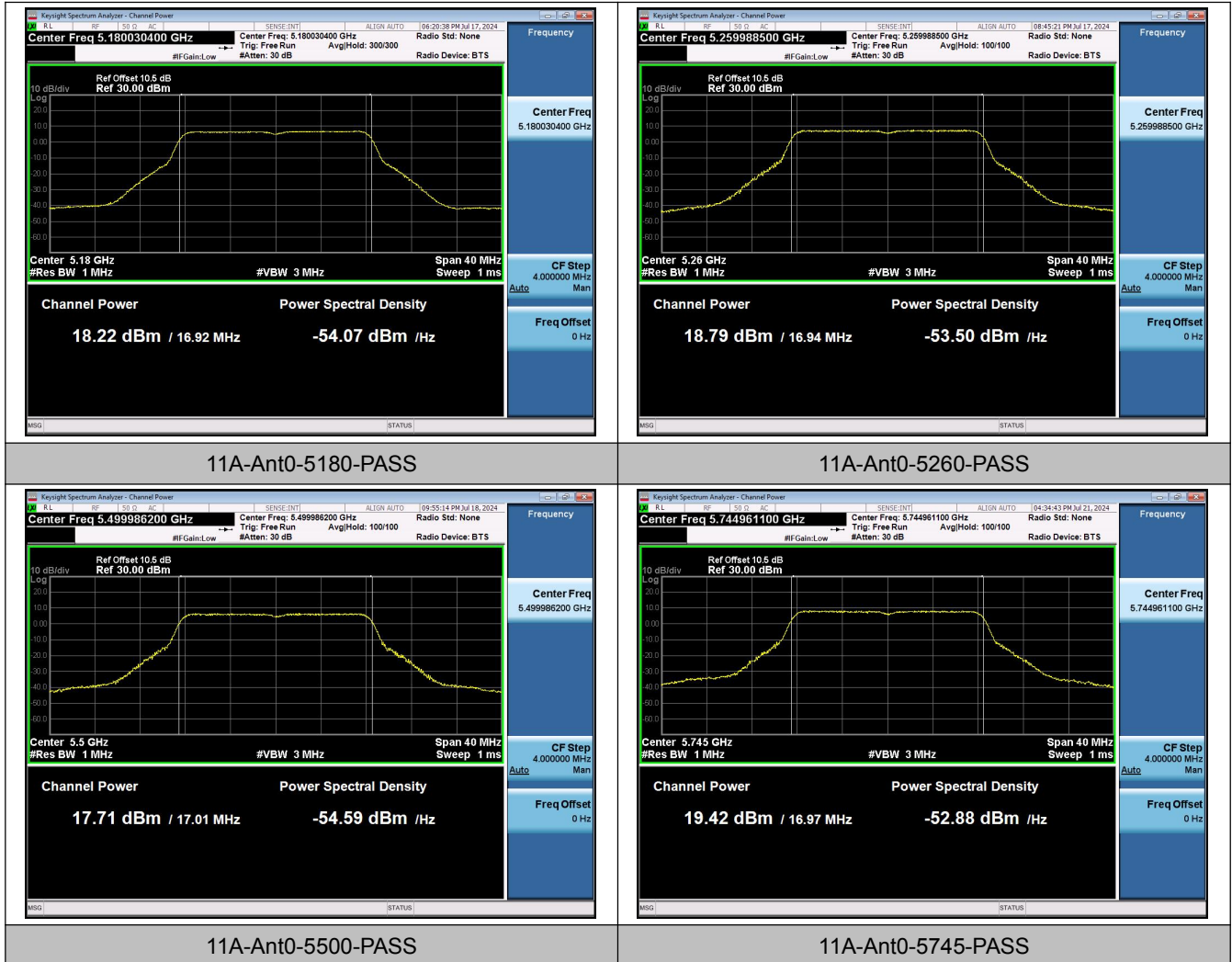
11AX20MIMO	Ant0	5700	15.52	0.00	18.35	≤23.65	PASS
11AX20MIMO	Ant1	5700	15.15	0.00		≤23.65	PASS
11AX40MIMO	Ant0	5510	14.24	0.00	17.01	≤23.65	PASS
11AX40MIMO	Ant1	5510	13.75	0.00		≤23.65	PASS
11AX40MIMO	Ant0	5550	14.58	0.00	17.54	≤23.65	PASS
11AX40MIMO	Ant1	5550	14.47	0.00		≤23.65	PASS
11AX40MIMO	Ant0	5670	15.18	0.00	18.07	≤23.65	PASS
11AX40MIMO	Ant1	5670	14.93	0.00		≤23.65	PASS
11AX80MIMO	Ant0	5530	14.98	0.00	17.65	≤23.65	PASS
11AX80MIMO	Ant1	5530	14.28	0.00		≤23.65	PASS
11AX80MIMO	Ant0	5610	14.40	0.00	17.79	≤23.65	PASS
11AX80MIMO	Ant1	5610	15.12	0.00		≤23.65	PASS
11AX160MIMO	Ant0	5570	14.83	0.00	18.21	≤23.65	PASS
11AX160MIMO	Ant1	5570	15.54	0.00		≤23.65	PASS

c



TestMode	Antenna	Frequency [MHz]	Power [dBm]	DC Factor [dBm]	Total Power (dBm)	Power Limit [dBm]	Verdict
11A	Ant0	5745	19.42	0.00	/	≤29.67	PASS
11A	Ant1	5745	19.40	0.00	/	≤29.67	PASS
11A	Ant0	5785	18.38	0.00	/	≤29.67	PASS
11A	Ant1	5785	18.76	0.00	/	≤29.67	PASS
11A	Ant0	5825	17.69	0.00	/	≤29.67	PASS
11A	Ant1	5825	18.23	0.00	/	≤29.67	PASS
11N20MIMO	Ant0	5745	15.46	0.00	18.36	≤29.67	PASS
11N20MIMO	Ant1	5745	15.23	0.00		≤29.67	PASS
11N20MIMO	Ant0	5785	14.53	0.00	17.57	≤29.67	PASS
11N20MIMO	Ant1	5785	14.59	0.00		≤29.67	PASS
11N20MIMO	Ant0	5825	13.67	0.00	16.90	≤29.67	PASS
11N20MIMO	Ant1	5825	14.10	0.00		≤29.67	PASS
11N40MIMO	Ant0	5755	15.22	0.00	18.07	≤29.67	PASS
11N40MIMO	Ant1	5755	14.90	0.00		≤29.67	PASS
11N40MIMO	Ant0	5795	14.68	0.00	17.42	≤29.67	PASS
11N40MIMO	Ant1	5795	14.12	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5745	15.34	0.00	18.27	≤29.67	PASS
11AC20MIMO	Ant1	5745	15.18	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5785	14.40	0.00	17.52	≤29.67	PASS
11AC20MIMO	Ant1	5785	14.62	0.00		≤29.67	PASS
11AC20MIMO	Ant0	5825	13.77	0.00	16.93	≤29.67	PASS
11AC20MIMO	Ant1	5825	14.06	0.00		≤29.67	PASS
11AC40MIMO	Ant0	5755	15.17	0.00	18.02	≤29.67	PASS
11AC40MIMO	Ant1	5755	14.85	0.00		≤29.67	PASS
11AC40MIMO	Ant0	5795	14.71	0.00	17.42	≤29.67	PASS
11AC40MIMO	Ant1	5795	14.08	0.00		≤29.67	PASS
11AC80MIMO	Ant0	5775	14.12	0.00	17.18	≤29.67	PASS
11AC80MIMO	Ant1	5775	14.21	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5745	15.44	0.00	18.34	≤29.67	PASS
11AX20MIMO	Ant1	5745	15.22	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5785	14.43	0.00	17.55	≤29.67	PASS
11AX20MIMO	Ant1	5785	14.65	0.00		≤29.67	PASS
11AX20MIMO	Ant0	5825	13.81	0.00	16.94	≤29.67	PASS
11AX20MIMO	Ant1	5825	14.05	0.00		≤29.67	PASS
11AX40MIMO	Ant0	5755	15.13	0.00	18.04	≤29.67	PASS
11AX40MIMO	Ant1	5755	14.92	0.00		≤29.67	PASS
11AX40MIMO	Ant0	5795	14.65	0.00	17.39	≤29.67	PASS
11AX40MIMO	Ant1	5795	14.10	0.00		≤29.67	PASS
11AX80MIMO	Ant0	5775	14.08	0.00	17.17	≤29.67	PASS
11AX80MIMO	Ant1	5775	14.24	0.00		≤29.67	PASS

Test plots



Note: Only 802.11a mode low channel plot is reported to show setting parameter complies with testing method and procedure.

AVGSA Power Spectral Density Test Result and Data

TestMode	Antenna	Frequency[MHz]	PSD[dBm/MHz]	Total PSD(dBm)	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	7.34	/	≤16.67	PASS
11A	Ant1	5180	6.91	/	≤16.67	PASS
11A	Ant0	5200	7.98	/	≤16.67	PASS
11A	Ant1	5200	7.37	/	≤16.67	PASS
11A	Ant0	5240	7.68	/	≤16.67	PASS
11A	Ant1	5240	7.16	/	≤16.67	PASS
11N20MIMO	Ant0	5180	2.90	5.71	≤16.67	PASS
11N20MIMO	Ant1	5180	2.49		≤16.67	PASS
11N20MIMO	Ant0	5200	3.61	6.51	≤16.67	PASS
11N20MIMO	Ant1	5200	3.39		≤16.67	PASS
11N20MIMO	Ant0	5240	3.88	6.53	≤16.67	PASS
11N20MIMO	Ant1	5240	3.12		≤16.67	PASS
11N40MIMO	Ant0	5190	0.13	2.78	≤16.67	PASS
11N40MIMO	Ant1	5190	-0.63		≤16.67	PASS
11N40MIMO	Ant0	5230	0.81	3.35	≤16.67	PASS
11N40MIMO	Ant1	5230	-0.19		≤16.67	PASS
11AC20MIMO	Ant0	5180	3.09	5.52	≤16.67	PASS
11AC20MIMO	Ant1	5180	1.83		≤16.67	PASS
11AC20MIMO	Ant0	5200	3.69	6.23	≤16.67	PASS
11AC20MIMO	Ant1	5200	2.70		≤16.67	PASS
11AC20MIMO	Ant0	5240	3.69	6.26	≤16.67	PASS
11AC20MIMO	Ant1	5240	2.77		≤16.67	PASS
11AC40MIMO	Ant0	5190	-0.04	2.57	≤16.67	PASS
11AC40MIMO	Ant1	5190	-0.89		≤16.67	PASS
11AC40MIMO	Ant0	5230	0.54	3.13	≤16.67	PASS
11AC40MIMO	Ant1	5230	-0.34		≤16.67	PASS
11AC80MIMO	Ant0	5210	-3.19	-0.47	≤16.67	PASS
11AC80MIMO	Ant1	5210	-3.80		≤16.67	PASS
11AX20MIMO	Ant0	5180	2.92	5.62	≤16.67	PASS
11AX20MIMO	Ant1	5180	2.28		≤16.67	PASS
11AX20MIMO	Ant0	5200	3.63	6.22	≤16.67	PASS
11AX20MIMO	Ant1	5200	2.74		≤16.67	PASS
11AX20MIMO	Ant0	5240	3.61	6.14	≤16.67	PASS
11AX20MIMO	Ant1	5240	2.58		≤16.67	PASS
11AX40MIMO	Ant0	5190	0.03	2.64	≤16.67	PASS
11AX40MIMO	Ant1	5190	-0.82		≤16.67	PASS
11AX40MIMO	Ant0	5230	0.60	3.14	≤16.67	PASS
11AX40MIMO	Ant1	5230	-0.39		≤16.67	PASS
11AX80MIMO	Ant0	5210	-2.95	-0.25	≤16.67	PASS



11AX80MIMO	Ant1	5210	-3.60		≤16.67	PASS
------------	------	------	-------	--	--------	------



TestMode	Antenna	Frequency[MHz]	PSD[dBm/MHz]	Total PSD(dBm)	Limit[dBm/MHz]	Verdict
11A	Ant0	5260	7.59	/	≤16.67	PASS
11A	Ant1	5260	6.97	/	≤16.67	PASS
11A	Ant0	5300	6.96	/	≤16.67	PASS
11A	Ant1	5300	6.40	/	≤16.67	PASS
11A	Ant0	5320	7.21	/	≤16.67	PASS
11A	Ant1	5320	5.94	/	≤16.67	PASS
11N20MIMO	Ant0	5260	3.59	6.29	≤16.67	PASS
11N20MIMO	Ant1	5260	2.94		≤16.67	PASS
11N20MIMO	Ant0	5300	2.91	5.68	≤16.67	PASS
11N20MIMO	Ant1	5300	2.42		≤16.67	PASS
11N20MIMO	Ant0	5320	2.76	5.49	≤16.67	PASS
11N20MIMO	Ant1	5320	2.18		≤16.67	PASS
11N40MIMO	Ant0	5270	0.29	2.88	≤16.67	PASS
11N40MIMO	Ant1	5270	-0.60		≤16.67	PASS
11N40MIMO	Ant0	5310	-0.38	2.40	≤16.67	PASS
11N40MIMO	Ant1	5310	-0.86		≤16.67	PASS
11AC20MIMO	Ant0	5260	3.55	6.23	≤16.67	PASS
11AC20MIMO	Ant1	5260	2.87		≤16.67	PASS
11AC20MIMO	Ant0	5300	2.86	5.59	≤16.67	PASS
11AC20MIMO	Ant1	5300	2.29		≤16.67	PASS
11AC20MIMO	Ant0	5320	2.71	5.42	≤16.67	PASS
11AC20MIMO	Ant1	5320	2.09		≤16.67	PASS
11AC40MIMO	Ant0	5270	0.30	2.93	≤16.67	PASS
11AC40MIMO	Ant1	5270	-0.49		≤16.67	PASS
11AC40MIMO	Ant0	5310	-0.41	2.41	≤16.67	PASS
11AC40MIMO	Ant1	5310	-0.79		≤16.67	PASS
11AC80MIMO	Ant0	5290	-4.20	-1.41	≤16.67	PASS
11AC80MIMO	Ant1	5290	-4.66		≤16.67	PASS
11AC160SISO	Ant0	5250_UNII-1	-5.33	-2.68	≤16.67	PASS
11AC160SISO	Ant1	5250_UNII-1	-6.08		≤16.67	PASS
11AC160SISO	Ant0	5250_UNII-2A	-5.14	-2.46	≤16.67	PASS
11AC160SISO	Ant1	5250_UNII-2A	-5.83		≤16.67	PASS
11AX20MIMO	Ant0	5260	3.29	6.02	≤16.67	PASS
11AX20MIMO	Ant1	5260	2.72		≤16.67	PASS
11AX20MIMO	Ant0	5300	2.90	5.66	≤16.67	PASS
11AX20MIMO	Ant1	5300	2.38		≤16.67	PASS
11AX20MIMO	Ant0	5320	2.62	5.46	≤16.67	PASS
11AX20MIMO	Ant1	5320	2.27		≤16.67	PASS
11AX40MIMO	Ant0	5270	-0.06	2.67	≤16.67	PASS
11AX40MIMO	Ant1	5270	-0.65		≤16.67	PASS
11AX40MIMO	Ant0	5310	-0.26	2.46	≤16.67	PASS



11AX40MIMO	Ant1	5310	-0.87		≤ 16.67	PASS
11AX80MIMO	Ant0	5290	-4.08	-1.32	≤ 16.67	PASS
11AX80MIMO	Ant1	5290	-4.60		≤ 16.67	PASS
11AX160SISO	Ant0	5250_UNII-1	-5.45	-2.73	≤ 16.67	PASS
11AX160SISO	Ant1	5250_UNII-1	-6.06		≤ 16.67	PASS
11AX160SISO	Ant0	5250_UNII-2A	-5.36	-2.58	≤ 16.67	PASS
11AX160SISO	Ant1	5250_UNII-2A	-5.84		≤ 16.67	PASS



TestMode	Antenna	Frequency[MHz]	PSD[dBm/MHz]	Total PSD(dBm)	Limit[dBm/MHz]	Verdict
11A	Ant0	5500	6.50	/	≤10.67	PASS
11A	Ant1	5500	6.45	/	≤10.67	PASS
11A	Ant0	5580	7.74	/	≤10.67	PASS
11A	Ant1	5580	7.73	/	≤10.67	PASS
11A	Ant0	5700	8.12	/	≤10.67	PASS
11A	Ant1	5700	8.00	/	≤10.67	PASS
11N20MIMO	Ant0	5500	2.56	5.36	≤10.67	PASS
11N20MIMO	Ant1	5500	2.12		≤10.67	PASS
11N20MIMO	Ant0	5580	3.67	6.56	≤10.67	PASS
11N20MIMO	Ant1	5580	3.43		≤10.67	PASS
11N20MIMO	Ant0	5700	3.87	6.76	≤10.67	PASS
11N20MIMO	Ant1	5700	3.63		≤10.67	PASS
11N40MIMO	Ant0	5510	0.03	2.69	≤10.67	PASS
11N40MIMO	Ant1	5510	-0.71		≤10.67	PASS
11N40MIMO	Ant0	5550	0.30	3.23	≤10.67	PASS
11N40MIMO	Ant1	5550	0.14		≤10.67	PASS
11N40MIMO	Ant0	5670	0.57	3.40	≤10.67	PASS
11N40MIMO	Ant1	5670	0.21		≤10.67	PASS
11AC20MIMO	Ant0	5500	2.69	5.40	≤10.67	PASS
11AC20MIMO	Ant1	5500	2.06		≤10.67	PASS
11AC20MIMO	Ant0	5580	3.51	6.45	≤10.67	PASS
11AC20MIMO	Ant1	5580	3.37		≤10.67	PASS
11AC20MIMO	Ant0	5700	3.94	6.73	≤10.67	PASS
11AC20MIMO	Ant1	5700	3.49		≤10.67	PASS
11AC40MIMO	Ant0	5510	-0.32	2.57	≤10.67	PASS
11AC40MIMO	Ant1	5510	-0.57		≤10.67	PASS
11AC40MIMO	Ant0	5550	0.08	3.10	≤10.67	PASS
11AC40MIMO	Ant1	5550	0.09		≤10.67	PASS
11AC40MIMO	Ant0	5670	0.86	3.63	≤10.67	PASS
11AC40MIMO	Ant1	5670	0.36		≤10.67	PASS
11AC80MIMO	Ant0	5530	-2.65	0.18	≤10.67	PASS
11AC80MIMO	Ant1	5530	-3.02		≤10.67	PASS
11AC80MIMO	Ant0	5610	-3.10	0.12	≤10.67	PASS
11AC80MIMO	Ant1	5610	-2.69		≤10.67	PASS
11AC160MIMO	Ant0	5570	-4.56	-1.33	≤10.67	PASS
11AC160MIMO	Ant1	5570	-4.13		≤10.67	PASS
11AX20MIMO	Ant0	5500	2.30	5.19	≤10.67	PASS
11AX20MIMO	Ant1	5500	2.06		≤10.67	PASS
11AX20MIMO	Ant0	5580	3.41	6.41	≤10.67	PASS
11AX20MIMO	Ant1	5580	3.39		≤10.67	PASS
11AX20MIMO	Ant0	5700	3.75	6.68	≤10.67	PASS

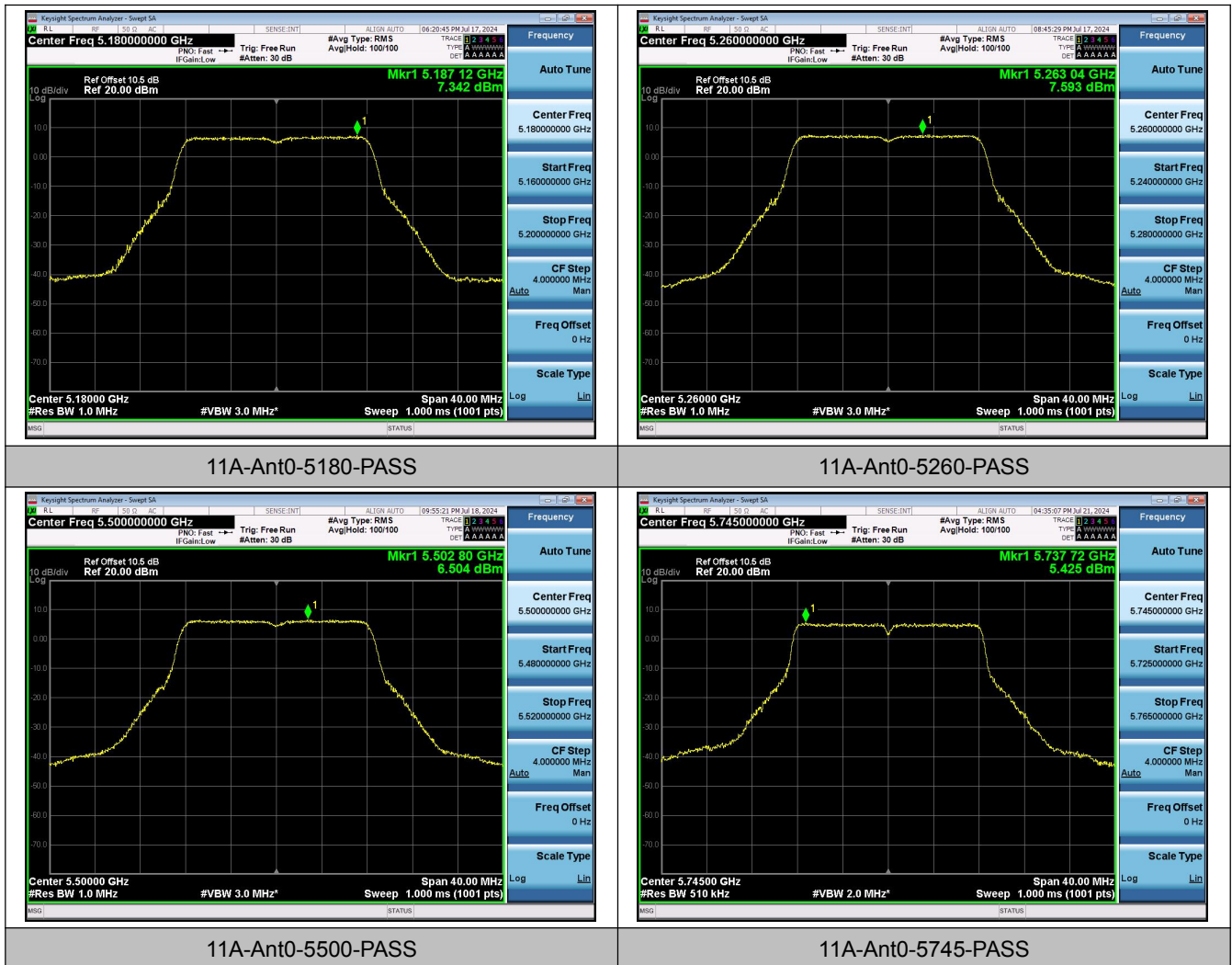


11AX20MIMO	Ant1	5700	3.58		≤ 10.67	PASS
11AX40MIMO	Ant0	5510	-0.57	2.52	≤ 10.67	PASS
11AX40MIMO	Ant1	5510	-0.41		≤ 10.67	PASS
11AX40MIMO	Ant0	5550	0.02	3.13	≤ 10.67	PASS
11AX40MIMO	Ant1	5550	0.21		≤ 10.67	PASS
11AX40MIMO	Ant0	5670	0.54	3.39	≤ 10.67	PASS
11AX40MIMO	Ant1	5670	0.21		≤ 10.67	PASS
11AX80MIMO	Ant0	5530	-2.59	0.14	≤ 10.67	PASS
11AX80MIMO	Ant1	5530	-3.16		≤ 10.67	PASS
11AX80MIMO	Ant0	5610	-3.08	0.17	≤ 10.67	PASS
11AX80MIMO	Ant1	5610	-2.62		≤ 10.67	PASS
11AX160MIMO	Ant0	5570	-4.73	-1.40	≤ 10.67	PASS
11AX160MIMO	Ant1	5570	-4.11		≤ 10.67	PASS



TestMode	Antenna	Frequency[MHz]	PSD[dBm/500kHz]	Total PSD [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
11A	Ant0	5745	5.43	/	≤29.67	PASS
11A	Ant1	5745	5.29	/	≤29.67	PASS
11A	Ant0	5785	4.27	/	≤29.67	PASS
11A	Ant1	5785	4.60	/	≤29.67	PASS
11A	Ant0	5825	4.00	/	≤29.67	PASS
11A	Ant1	5825	5.18	/	≤29.67	PASS
11N20MIMO	Ant0	5745	1.17	3.97	≤29.67	PASS
11N20MIMO	Ant1	5745	0.74		≤29.67	PASS
11N20MIMO	Ant0	5785	0.36	3.33	≤29.67	PASS
11N20MIMO	Ant1	5785	0.27		≤29.67	PASS
11N20MIMO	Ant0	5825	-0.63	2.69	≤29.67	PASS
11N20MIMO	Ant1	5825	-0.03		≤29.67	PASS
11N40MIMO	Ant0	5755	-1.89	0.88	≤29.67	PASS
11N40MIMO	Ant1	5755	-2.38		≤29.67	PASS
11N40MIMO	Ant0	5795	-2.68	0.12	≤29.67	PASS
11N40MIMO	Ant1	5795	-3.12		≤29.67	PASS
11AC20MIMO	Ant0	5745	1.01	4.08	≤29.67	PASS
11AC20MIMO	Ant1	5745	1.13		≤29.67	PASS
11AC20MIMO	Ant0	5785	0.12	3.18	≤29.67	PASS
11AC20MIMO	Ant1	5785	0.21		≤29.67	PASS
11AC20MIMO	Ant0	5825	-0.61	2.57	≤29.67	PASS
11AC20MIMO	Ant1	5825	-0.28		≤29.67	PASS
11AC40MIMO	Ant0	5755	-2.13	0.64	≤29.67	PASS
11AC40MIMO	Ant1	5755	-2.63		≤29.67	PASS
11AC40MIMO	Ant0	5795	-2.76	0.01	≤29.67	PASS
11AC40MIMO	Ant1	5795	-3.26		≤29.67	PASS
11AC80MIMO	Ant0	5775	-6.17	-3.08	≤29.67	PASS
11AC80MIMO	Ant1	5775	-6.02		≤29.67	PASS
11AX20MIMO	Ant0	5745	1.13	3.91	≤29.67	PASS
11AX20MIMO	Ant1	5745	0.65		≤29.67	PASS
11AX20MIMO	Ant0	5785	0.13	3.16	≤29.67	PASS
11AX20MIMO	Ant1	5785	0.16		≤29.67	PASS
11AX20MIMO	Ant0	5825	-0.71	2.48	≤29.67	PASS
11AX20MIMO	Ant1	5825	-0.36		≤29.67	PASS
11AX40MIMO	Ant0	5755	-2.11	0.70	≤29.67	PASS
11AX40MIMO	Ant1	5755	-2.52		≤29.67	PASS
11AX40MIMO	Ant0	5795	-2.54	0.08	≤29.67	PASS
11AX40MIMO	Ant1	5795	-3.35		≤29.67	PASS
11AX80MIMO	Ant0	5775	-5.98	-3.04	≤29.67	PASS
11AX80MIMO	Ant1	5775	-6.12		≤29.67	PASS

Test Plots



Note: Only 802.11a mode low channel plot is reported to show setting parameter complies with testing method and procedure.



99% Occupied Bandwidth and 26dB Emission Bandwidth Test Result and Data

TestMode	Antenna	Frequency[MHz]	99% OBW[MHz]	26dB EBW[MHz]	Verdict
11A	Ant0	5260	16.942	22.040	---
11A	Ant1	5260	16.965	22.360	---
11A	Ant0	5300	16.914	22.280	---
11A	Ant1	5300	16.874	22.600	---
11A	Ant0	5320	16.956	22.080	---
11A	Ant1	5320	16.950	22.200	---
11N20SISO	Ant0	5260	18.068	23.160	---
11N20SISO	Ant1	5260	18.037	23.080	---
11N20SISO	Ant0	5300	18.064	22.920	---
11N20SISO	Ant1	5300	18.016	23.320	---
11N20SISO	Ant0	5320	18.011	23.680	---
11N20SISO	Ant1	5320	18.032	23.240	---
11N40SISO	Ant0	5270	36.732	44.800	---
11N40SISO	Ant1	5270	36.601	46.480	---
11N40SISO	Ant0	5310	36.796	46.000	---
11N40SISO	Ant1	5310	36.671	44.880	---
11AC20SISO	Ant0	5260	18.069	22.960	---
11AC20SISO	Ant1	5260	18.081	23.000	---
11AC20SISO	Ant0	5300	18.067	22.640	---
11AC20SISO	Ant1	5300	18.048	23.280	---
11AC20SISO	Ant0	5320	18.052	23.120	---
11AC20SISO	Ant1	5320	18.058	23.160	---
11AC40SISO	Ant0	5270	36.705	45.200	---
11AC40SISO	Ant1	5270	36.702	45.280	---
11AC40SISO	Ant0	5310	36.650	46.000	---
11AC40SISO	Ant1	5310	36.706	45.280	---
11AC80SISO	Ant0	5290	76.152	92.000	---
11AC80SISO	Ant1	5290	76.312	91.200	---
11AC160SISO	Ant0	5250	155.31	173.760	---
11AC160SISO	Ant1	5250	155.47	174.080	---
11AX20SISO	Ant0	5260	19.207	23.240	---
11AX20SISO	Ant1	5260	19.157	22.480	---
11AX20SISO	Ant0	5300	19.151	22.440	---
11AX20SISO	Ant1	5300	19.120	22.400	---
11AX20SISO	Ant0	5320	19.194	22.480	---
11AX20SISO	Ant1	5320	19.152	22.800	---
11AX40SISO	Ant0	5270	38.128	43.440	---
11AX40SISO	Ant1	5270	38.087	43.840	---
11AX40SISO	Ant0	5310	38.094	44.000	---



11AX40SISO	Ant1	5310	38.103	44.320	---
11AX80SISO	Ant0	5290	77.801	88.000	
11AX80SISO	Ant1	5290	77.694	89.600	
11AX160SISO	Ant0	5250	156.70	170.240	
11AX160SISO	Ant1	5250	156.84	172.800	



TestMode	Antenna	Frequency[MHz]	99% OBW[MHz]	26dB EBW[MHz]	Verdict
11A	Ant0	5260	16.942	22.040	---
11A	Ant1	5260	16.965	22.360	---
11A	Ant0	5300	16.914	22.280	---
11A	Ant1	5300	16.874	22.600	---
11A	Ant0	5320	16.956	22.080	---
11A	Ant1	5320	16.950	22.200	---
11N20MIMO	Ant0	5260	18.068	23.160	---
11N20MIMO	Ant1	5260	18.037	23.080	---
11N20MIMO	Ant0	5300	18.064	22.920	---
11N20MIMO	Ant1	5300	18.016	23.320	---
11N20MIMO	Ant0	5320	18.011	23.680	---
11N20MIMO	Ant1	5320	18.032	23.240	---
11N40MIMO	Ant0	5270	36.732	44.800	---
11N40MIMO	Ant1	5270	36.601	46.480	---
11N40MIMO	Ant0	5310	36.796	46.000	---
11N40MIMO	Ant1	5310	36.671	44.880	---
11AC20MIMO	Ant0	5260	18.069	22.960	---
11AC20MIMO	Ant1	5260	18.081	23.000	---
11AC20MIMO	Ant0	5300	18.067	22.640	---
11AC20MIMO	Ant1	5300	18.048	23.280	---
11AC20MIMO	Ant0	5320	18.052	23.120	---
11AC20MIMO	Ant1	5320	18.058	23.160	---
11AC40MIMO	Ant0	5270	36.705	45.200	---
11AC40MIMO	Ant1	5270	36.702	45.280	---
11AC40MIMO	Ant0	5310	36.650	46.000	---
11AC40MIMO	Ant1	5310	36.706	45.280	---
11AC80MIMO	Ant0	5290	76.152	92.000	---
11AC80MIMO	Ant1	5290	76.312	91.200	---
11AX20MIMO	Ant0	5260	19.207	23.240	---
11AX20MIMO	Ant1	5260	19.157	22.480	---
11AX20MIMO	Ant0	5300	19.151	22.440	---
11AX20MIMO	Ant1	5300	19.120	22.400	---
11AX20MIMO	Ant0	5320	19.194	22.480	---
11AX20MIMO	Ant1	5320	19.152	22.800	---
11AX40MIMO	Ant0	5270	38.128	43.440	---
11AX40MIMO	Ant1	5270	38.087	43.840	---
11AX40MIMO	Ant0	5310	38.094	44.000	---
11AX40MIMO	Ant1	5310	38.103	44.320	---
11AX80MIMO	Ant0	5290	77.801	88.000	---
11AX80MIMO	Ant1	5290	77.694	89.600	---



TestMode	Antenna	Frequency[MHz]	99% OBW[MHz]	26dB EBW[MHz]	Verdict
11A	Ant0	5500	17.010	22.680	---
11A	Ant1	5500	16.952	22.120	---
11A	Ant0	5580	16.978	23.120	---
11A	Ant1	5580	17.064	23.240	---
11A	Ant0	5700	16.943	22.320	---
11A	Ant1	5700	16.926	23.000	---
11N20MIMO	Ant0	5500	18.078	23.400	---
11N20MIMO	Ant1	5500	18.059	23.040	---
11N20MIMO	Ant0	5580	18.061	23.240	---
11N20MIMO	Ant1	5580	18.109	23.120	---
11N20MIMO	Ant0	5700	18.091	22.880	---
11N20MIMO	Ant1	5700	18.032	23.200	---
11N40MIMO	Ant0	5510	36.753	44.560	---
11N40MIMO	Ant1	5510	36.689	45.200	---
11N40MIMO	Ant0	5550	36.675	45.280	---
11N40MIMO	Ant1	5550	36.716	44.880	---
11N40MIMO	Ant0	5670	36.647	44.960	---
11N40MIMO	Ant1	5670	36.665	44.960	---
11AC20MIMO	Ant0	5500	18.083	22.800	---
11AC20MIMO	Ant1	5500	18.064	23.000	---
11AC20MIMO	Ant0	5580	18.003	22.960	---
11AC20MIMO	Ant1	5580	18.058	23.120	---
11AC20MIMO	Ant0	5700	18.025	23.160	---
11AC20MIMO	Ant1	5700	18.064	23.080	---
11AC40MIMO	Ant0	5510	36.653	44.880	---
11AC40MIMO	Ant1	5510	36.646	44.960	---
11AC40MIMO	Ant0	5550	36.731	46.160	---
11AC40MIMO	Ant1	5550	36.688	45.040	---
11AC40MIMO	Ant0	5670	36.750	45.440	---
11AC40MIMO	Ant1	5670	36.790	44.400	---
11AC80MIMO	Ant0	5530	76.367	94.080	---
11AC80MIMO	Ant1	5530	76.339	92.320	---
11AC80MIMO	Ant0	5610	76.202	90.880	---
11AC80MIMO	Ant1	5610	76.172	92.640	---
11AC160MIMO	Ant0	5570	155.71	171.520	---
11AC160MIMO	Ant1	5570	155.42	171.840	---
11AX20MIMO	Ant0	5500	19.100	22.840	---
11AX20MIMO	Ant1	5500	19.109	22.440	---
11AX20MIMO	Ant0	5580	19.186	22.080	---
11AX20MIMO	Ant1	5580	19.101	22.760	---
11AX20MIMO	Ant0	5700	19.157	22.200	---

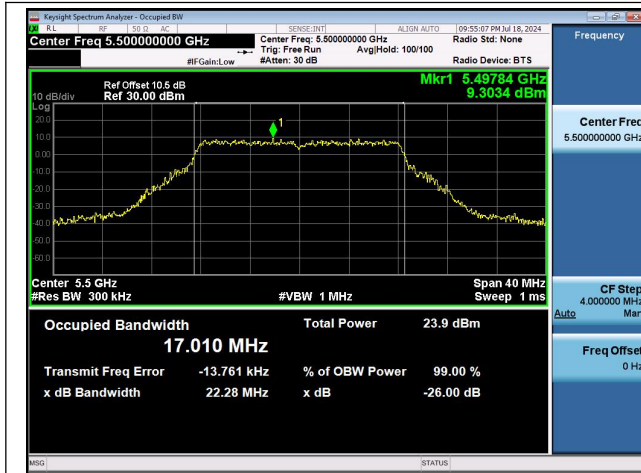


11AX20MIMO	Ant1	5700	19.108	22.720	---
11AX40MIMO	Ant0	5510	38.139	43.600	---
11AX40MIMO	Ant1	5510	37.996	43.520	---
11AX40MIMO	Ant0	5550	38.112	44.640	---
11AX40MIMO	Ant1	5550	38.021	44.400	---
11AX40MIMO	Ant0	5670	38.123	44.080	---
11AX40MIMO	Ant1	5670	38.001	44.640	---
11AX80MIMO	Ant0	5530	77.713	89.280	---
11AX80MIMO	Ant1	5530	77.776	87.840	---
11AX80MIMO	Ant0	5610	77.624	86.560	---
11AX80MIMO	Ant1	5610	77.644	87.840	---
11AX160MIMO	Ant0	5570	157.05	169.600	---
11AX160MIMO	Ant1	5570	157.12	171.200	---

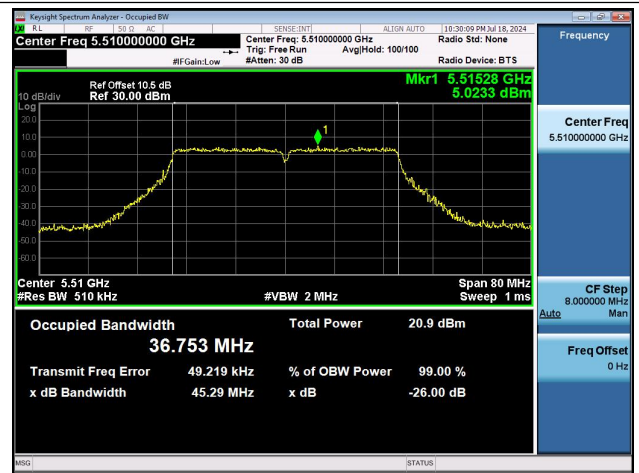


TestMode	Antenna	Frequency[MHz]	99% OBW[MHz]	26dB EBW[MHz]	Verdict
11A	Ant0	5745	16.966	22.160	---
11A	Ant1	5745	16.997	22.520	---
11A	Ant0	5785	16.976	22.200	---
11A	Ant1	5785	16.949	22.440	---
11A	Ant0	5825	16.918	22.200	---
11A	Ant1	5825	16.927	22.720	---
11N20MIMO	Ant0	5745	18.015	23.120	---
11N20MIMO	Ant1	5745	18.077	23.000	---
11N20MIMO	Ant0	5785	18.085	23.360	---
11N20MIMO	Ant1	5785	18.096	23.200	---
11N20MIMO	Ant0	5825	18.021	22.560	---
11N20MIMO	Ant1	5825	18.043	23.200	---
11N40MIMO	Ant0	5755	37.018	44.400	---
11N40MIMO	Ant1	5755	36.992	45.840	---
11N40MIMO	Ant0	5795	36.920	45.600	---
11N40MIMO	Ant1	5795	37.096	46.080	---
11AC20MIMO	Ant0	5745	18.151	22.720	---
11AC20MIMO	Ant1	5745	18.081	23.160	---
11AC20MIMO	Ant0	5785	18.094	23.080	---
11AC20MIMO	Ant1	5785	18.125	23.000	---
11AC20MIMO	Ant0	5825	18.048	23.360	---
11AC20MIMO	Ant1	5825	18.054	23.080	---
11AC40MIMO	Ant0	5755	36.976	45.360	---
11AC40MIMO	Ant1	5755	36.910	45.680	---
11AC40MIMO	Ant0	5795	37.152	44.560	---
11AC40MIMO	Ant1	5795	37.035	44.240	---
11AC80MIMO	Ant0	5775	76.464	94.240	---
11AC80MIMO	Ant1	5775	76.309	93.600	---
11AX20MIMO	Ant0	5745	19.134	22.560	---
11AX20MIMO	Ant1	5745	19.144	22.720	---
11AX20MIMO	Ant0	5785	19.182	21.760	---
11AX20MIMO	Ant1	5785	19.156	22.800	---
11AX20MIMO	Ant0	5825	19.156	22.600	---
11AX20MIMO	Ant1	5825	19.092	22.400	---
11AX40MIMO	Ant0	5755	38.236	43.040	---
11AX40MIMO	Ant1	5755	38.359	43.760	---
11AX40MIMO	Ant0	5795	38.307	43.360	---
11AX40MIMO	Ant1	5795	38.304	42.960	---
11AX80MIMO	Ant0	5775	77.889	90.720	---
11AX80MIMO	Ant1	5775	77.865	88.800	---

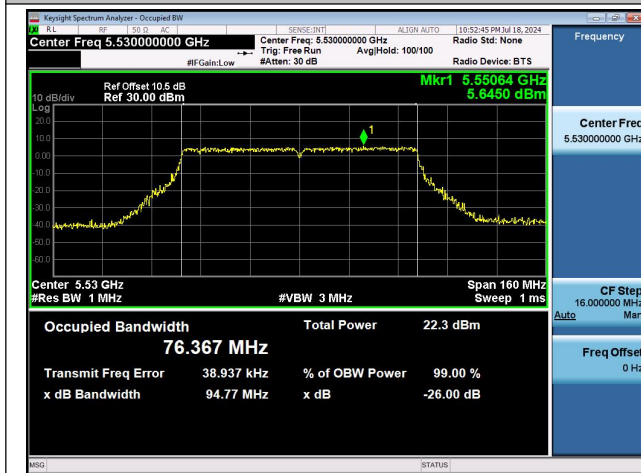
Test Plots



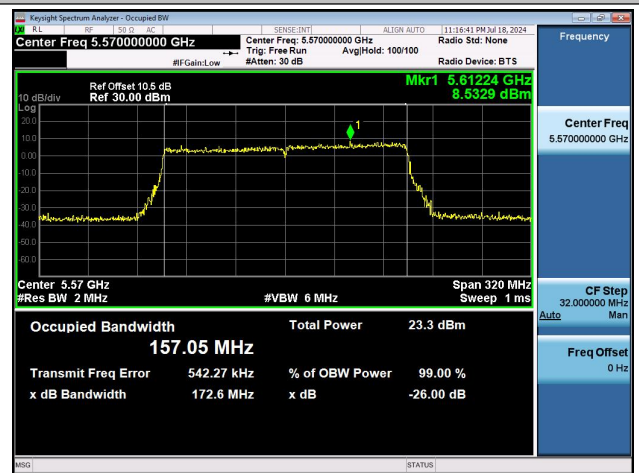
11A-Ant0-5500-99% OBW



11N40MIMO-Ant0-5510-99% OBW



11AC80MIMO-Ant0-5530-99% OBW

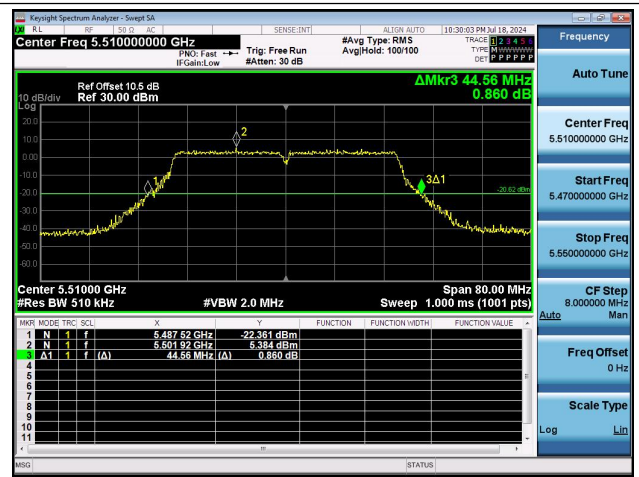


11AX160MIMO-Ant0-5570-99% OBW

Note: Only UNII-2C 20MHz&40MHz&80MHz&160MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.



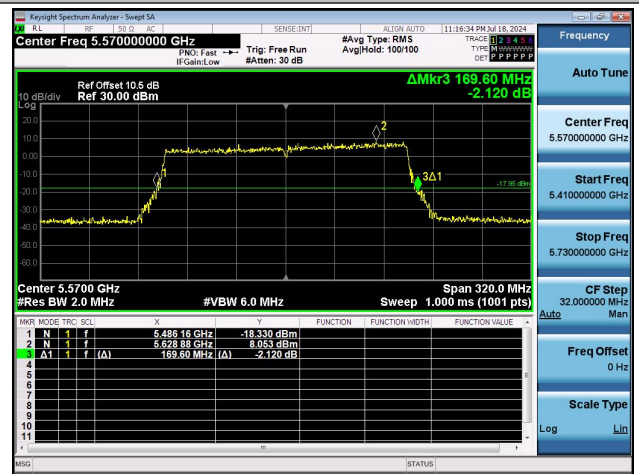
11A-Ant0-5500-26dB EBW



11N40MIMO-Ant0-5510-26dB EBW



11AC80MIMO-Ant0-5530-26dB EBW



11AX160MIMO-Ant0-5570-26dB EBW

Note: Only UNII-2C 20MHz&40MHz&80MHz&160MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.

**6dB Down Bandwidth
Test Result and Data**

TestMode	Antenna	Frequency[MHz]	6dB EBW[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	16.360	0.5	PASS
11A	Ant1	5745	16.360	0.5	PASS
11A	Ant0	5785	16.320	0.5	PASS
11A	Ant1	5785	16.360	0.5	PASS
11A	Ant0	5825	16.320	0.5	PASS
11A	Ant1	5825	16.320	0.5	PASS
11N20MIMO	Ant0	5745	17.600	0.5	PASS
11N20MIMO	Ant1	5745	17.600	0.5	PASS
11N20MIMO	Ant0	5785	17.760	0.5	PASS
11N20MIMO	Ant1	5785	17.720	0.5	PASS
11N20MIMO	Ant0	5825	17.640	0.5	PASS
11N20MIMO	Ant1	5825	17.600	0.5	PASS
11N40MIMO	Ant0	5755	36.320	0.5	PASS
11N40MIMO	Ant1	5755	36.320	0.5	PASS
11N40MIMO	Ant0	5795	36.320	0.5	PASS
11N40MIMO	Ant1	5795	36.320	0.5	PASS
11AC20MIMO	Ant0	5745	17.600	0.5	PASS
11AC20MIMO	Ant1	5745	17.600	0.5	PASS
11AC20MIMO	Ant0	5785	17.800	0.5	PASS
11AC20MIMO	Ant1	5785	17.800	0.5	PASS
11AC20MIMO	Ant0	5825	17.560	0.5	PASS
11AC20MIMO	Ant1	5825	17.600	0.5	PASS
11AC40MIMO	Ant0	5755	36.480	0.5	PASS
11AC40MIMO	Ant1	5755	36.320	0.5	PASS
11AC40MIMO	Ant0	5795	36.320	0.5	PASS
11AC40MIMO	Ant1	5795	36.320	0.5	PASS
11AC80MIMO	Ant0	5775	76.480	0.5	PASS
11AC80MIMO	Ant1	5775	76.480	0.5	PASS
11AX20MIMO	Ant0	5745	19.000	0.5	PASS
11AX20MIMO	Ant1	5745	19.160	0.5	PASS
11AX20MIMO	Ant0	5785	18.960	0.5	PASS
11AX20MIMO	Ant1	5785	18.960	0.5	PASS
11AX20MIMO	Ant0	5825	18.960	0.5	PASS
11AX20MIMO	Ant1	5825	19.000	0.5	PASS
11AX40MIMO	Ant0	5755	38.160	0.5	PASS
11AX40MIMO	Ant1	5755	38.080	0.5	PASS
11AX40MIMO	Ant0	5795	38.160	0.5	PASS
11AX40MIMO	Ant1	5795	38.080	0.5	PASS
11AX80MIMO	Ant0	5775	78.080	0.5	PASS



11AX80MIMO	Ant1	5775	78.080	0.5	PASS
------------	------	------	--------	-----	------

Test Graphs



11A-Ant0-5745-PASS



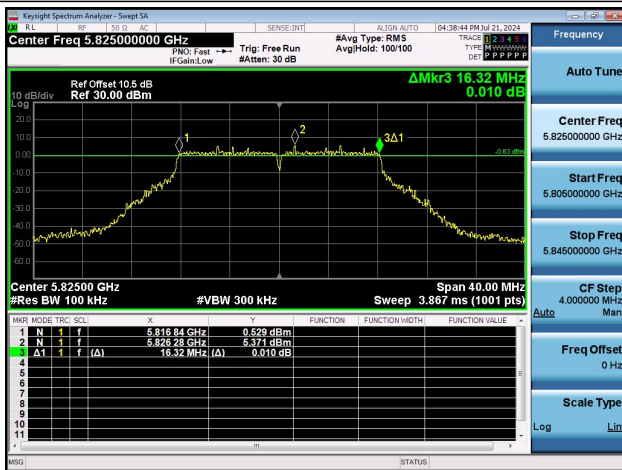
11A-Ant1-5745-PASS



11A-Ant0-5785-PASS



11A-Ant1-5785-PASS



11A-Ant0-5825-PASS



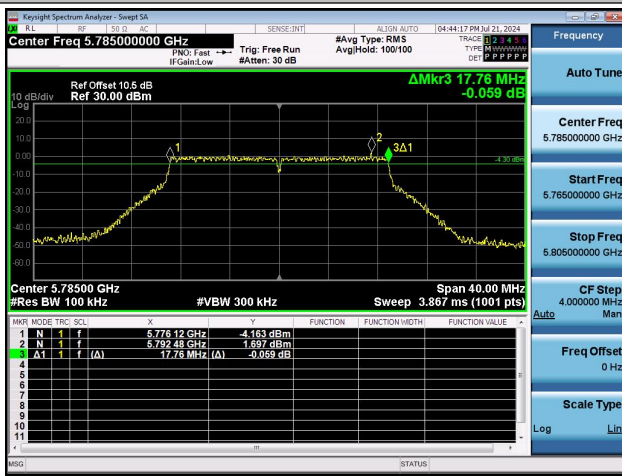
11A-Ant1-5825-PASS



11N20MIMO-Ant0-5745-PASS



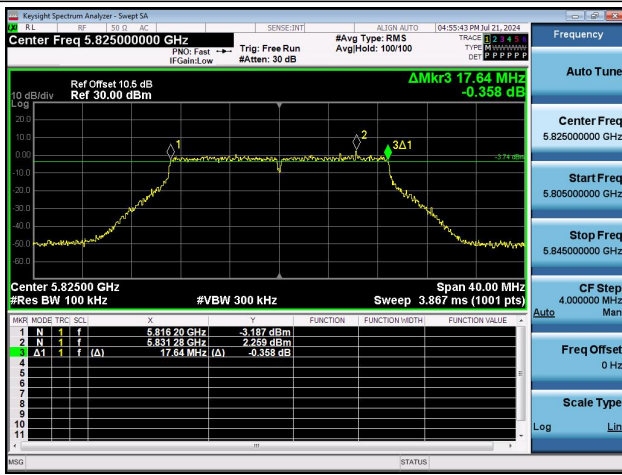
11N20MIMO-Ant1-5745-PASS



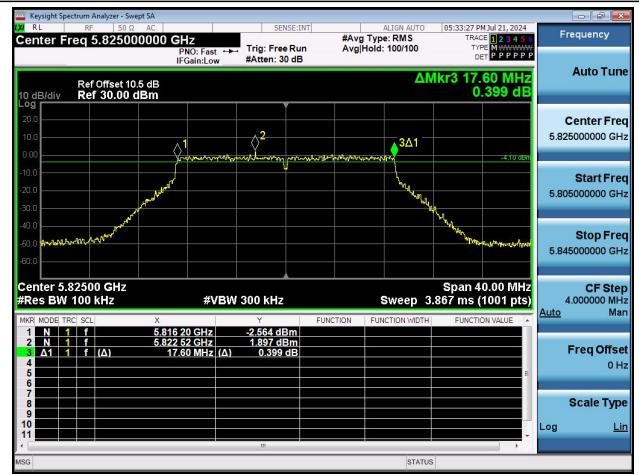
11N20MIMO-Ant0-5785-PASS



11N20MIMO-Ant1-5785-PASS



11N20MIMO-Ant0-5825-PASS



11N20MIMO-Ant1-5825-PASS