



RF TEST REPORT

Report No.: 20240117G01519X-W6

Product Name: VERTU IRONFLIP 5G digital mobile phone

Model No.: VTL-202302

FCC ID: 2A6IQ-VTL202302

Applicant: VERTU INTERNATIONAL CORPORATION LIMITED

Address: Chase Business Centre 39-41 Chase Side London England N14 5BP

Dates of Testing: 01/22/2024 - 04/23/2024

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 **Fax:** 86 755 26627238

This test report consists of 121 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: VERTU IRONFLIP 5G digital mobile phone
Brand Name: VERTU
Trade Name: VERTU
Applicant: VERTU INTERNATIONAL CORPORATION LIMITED
Applicant Address: Chase Business Centre 39-41 Chase Side London England N14 5BP
Manufacturer: Chengdu VERTU Business And Service Management Co., Ltd
Manufacturer Address: Room 2308, 23rd Floor, Building 2, No. 1199, North Tianfu Avenue, High-tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone
Test Standards: 47 CFR Part 15 Subpart E 15.407
 ANSI C63.10-2013
Test Result: Pass

Tested by: Chuiwang Zhang 2024.04.23
 Chuiwang Zhang, Test Engineer

Reviewed by: Chris You 2024.04.23
 Chris You, Senior Engineer

Approved by: Yang Fan 2024.04.23
 Yang Fan, Manager



Table of Contents

1. GENERAL INFORMATION.....4

1.1. EUT Description.....4

1.2. Test Standards and Results.....6

1.3. Channel List7

1.4. Test environment and mode9

1.5. Table for Supporting Units.....12

1.6. Laboratory Facilities.....13

2. 47 CFR PART 15E REQUIREMENTS14

2.1. Antenna requirement14

2.2. Maximum Conducted Output Power.....15

2.3. Power spectral density (PSD)18

2.4. 26dB Emission Bandwidth and 99% Occupied Bandwidth20

2.5. Frequency Stability.....22

2.6. Radiated Band Edge and Spurious Emission.....24

2.7. AC Power Line Conducted Emission.....45

3. LIST OF MEASURING EQUIPMENT49

4. UNCERTAINTY OF EVALUATION50

APPENDIX A.....51

Change History		
Issue	Date	Reason for change
1.0	2024.04.23	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	VERTU IRONFLIP 5G digital mobile phone
Model No.	VTL-202302
Hardware Version	P10
Software Version	13.0.0_6.01.01.01
EUT supports Radios application	WLAN5.0GHz 802.11a/n/ac/ax
Product Type	Client devices
Modulation Type	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: 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	Antenna 13: -1.2dBi Antenna 11: -0.8dBi	
Output Power (Max.)	UNII-1: 18.84dBm UNII-2a: 18.71dBm UNII-2c: 18.95dBm UNII-3: 18.69dBm	
Test Control Software	QRCT 4.0	
Power supply	Upper:	Rechargeable Li-ion Polymer Battery DC3.91V/3210mAh
	Bottom:	Rechargeable Li-ion Polymer Battery DC3.91V/970mAh

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 C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC/IC 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)(iv) 15.407 (a)(2) 15.407(a)(3)(i)	Maximum Conducted Output Power	PASS
3	15.407(a)(12)	26dB Emission Bandwidth 99% Occupied Bandwidth	PASS
4	15.407(e)	6dB Emission Bandwidth	PASS
5	15.407(a)(1)(iv) 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	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO and MIMO, duty cycle factor is not required.

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 generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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.: 406086

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 client devices 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: Internal 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	Ant13 Antenna Gain (dBi)	Ant11 Antenna Gain (dBi)	Uncorrelated Chains Directional gain (dBi)
UNII-1, UNII-2a, UNII-2c, UNII-3	-1.2	-0.8	-1.0

Note 1: Uncorrelated directional gain = $10 \log[(10^{\text{Ant13}/10} + 10^{\text{Ant11}/10}) / N_{\text{ANT}}]$ 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:

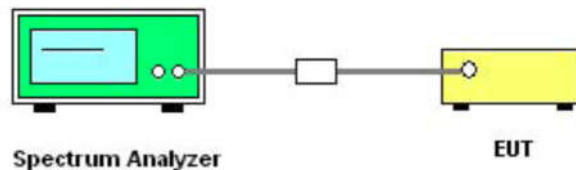
Band	EUT Category	Limit
U-NII-1	<input type="checkbox"/> Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	<input type="checkbox"/> Fixed point-to-point Access device	1 Watt (30 dBm)
	<input type="checkbox"/> Indoor Access Point	1 Watt (30 dBm)
	<input checked="" type="checkbox"/> Mobile and portable client device	250mW (24 dBm)
U-NII-2A	<input checked="" type="checkbox"/>	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	<input checked="" type="checkbox"/>	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	<input checked="" type="checkbox"/>	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 C63.10-2013 Section 12.3.2.2.
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)

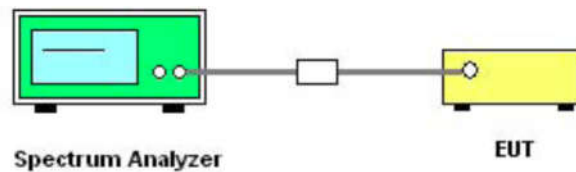
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	<input type="checkbox"/> Outdoor Access Point	17 dBm/MHz
	<input type="checkbox"/> Fixed point-to-point Access device	
	<input type="checkbox"/> Indoor Access Point	
	<input checked="" type="checkbox"/> Mobile and portable client device	11 dBm/MHz
U-NII-2A	<input checked="" type="checkbox"/>	11 dBm/MHz
U-NII-2C	<input checked="" type="checkbox"/>	11 dBm/MHz
U-NII-3	<input checked="" type="checkbox"/>	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 C63.10-2013 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. 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 2MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times$ span / 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

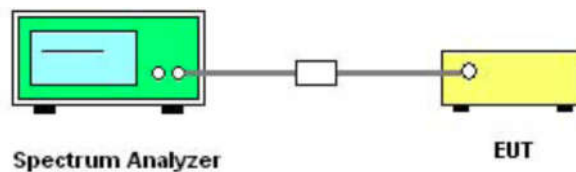
26dB Emission Bandwidth and 99% Occupied Bandwidth no Bandwidth limit.

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 C63.10-2013 Section 12.4.
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

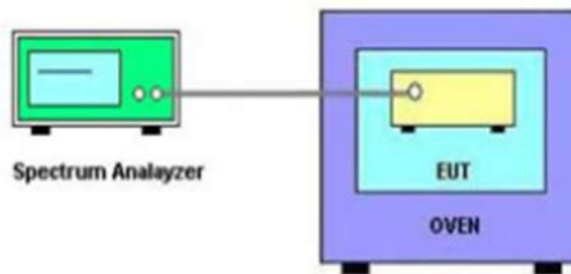
2.5.1. Limit of Frequency Stability

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 C63.10-2013 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 (uV/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) $EIRP[\text{dBm}] = E[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{m}]) - 104.77$, d is the measurement distance in m.
- 2) $E[\text{dB}\mu\text{V/m}] = EIRP[\text{dBm}] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIRP[\text{dBm}] = -27\text{dBm}$.
 $E[\text{dB}\mu\text{V/m}] = EIRP[\text{dBm}] + 95.2 = 105.2 \text{ dBuV/m}$, for $EIRP[\text{dBm}] = 10\text{dBm}$.
 $E[\text{dB}\mu\text{V/m}] = EIRP[\text{dBm}] + 95.2 = 110.8 \text{ dBuV/m}$, for $EIRP[\text{dBm}] = 15.6\text{dBm}$.
 $E[\text{dB}\mu\text{V/m}] = EIRP[\text{dBm}] + 95.2 = 122.2 \text{ dBuV/m}$, for $EIRP[\text{dBm}] = 27\text{dBm}$.



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	/	/	/

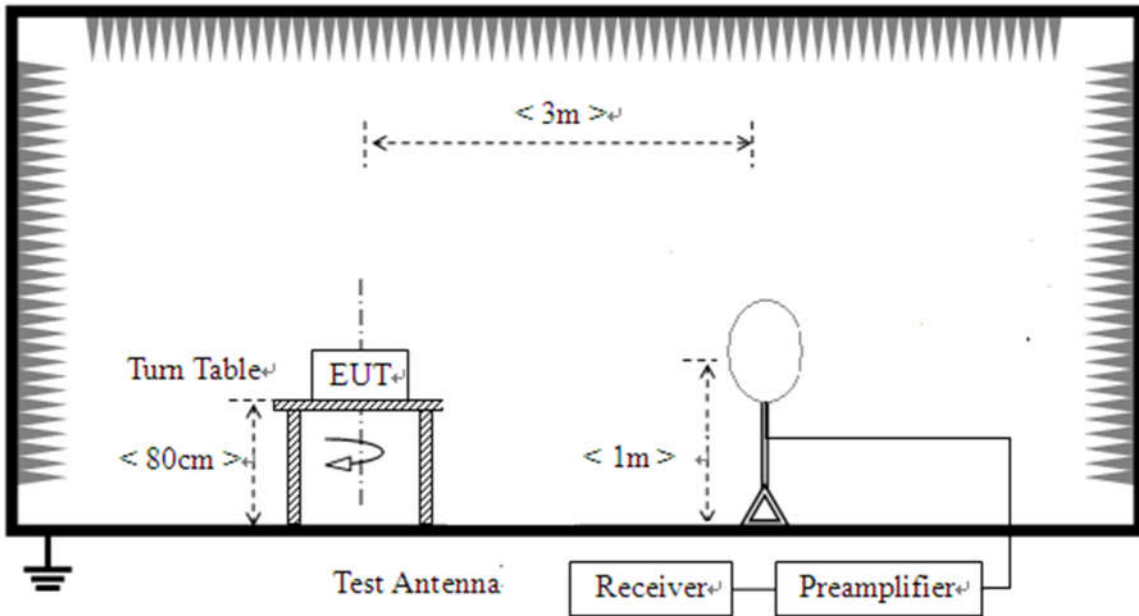
Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
²Above 38.6.

2.6.2. Measuring Instruments

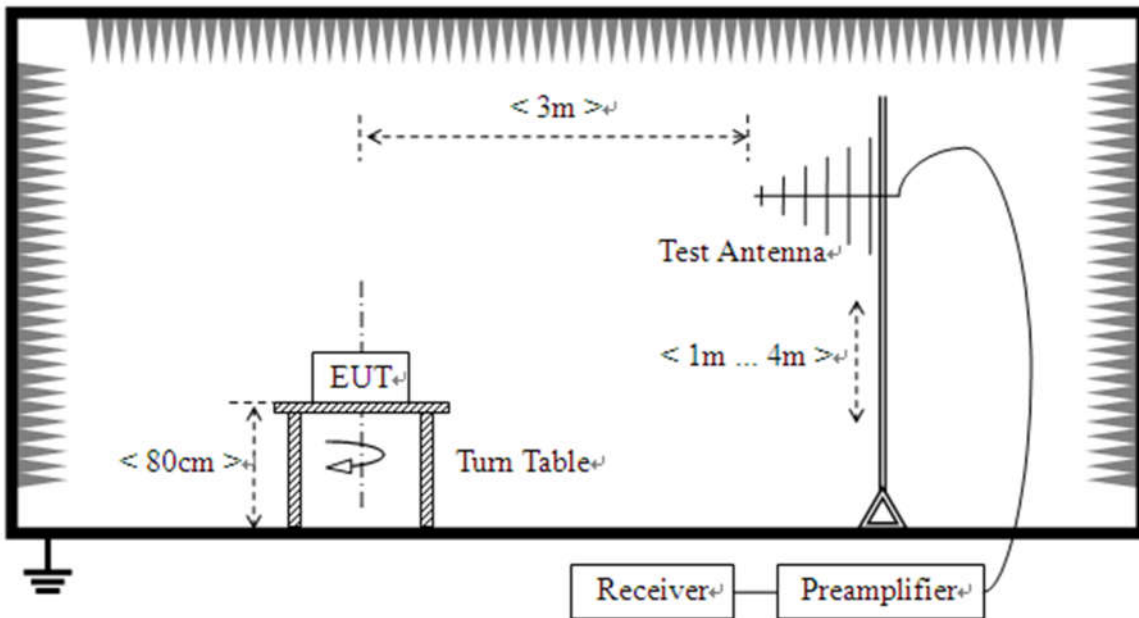
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

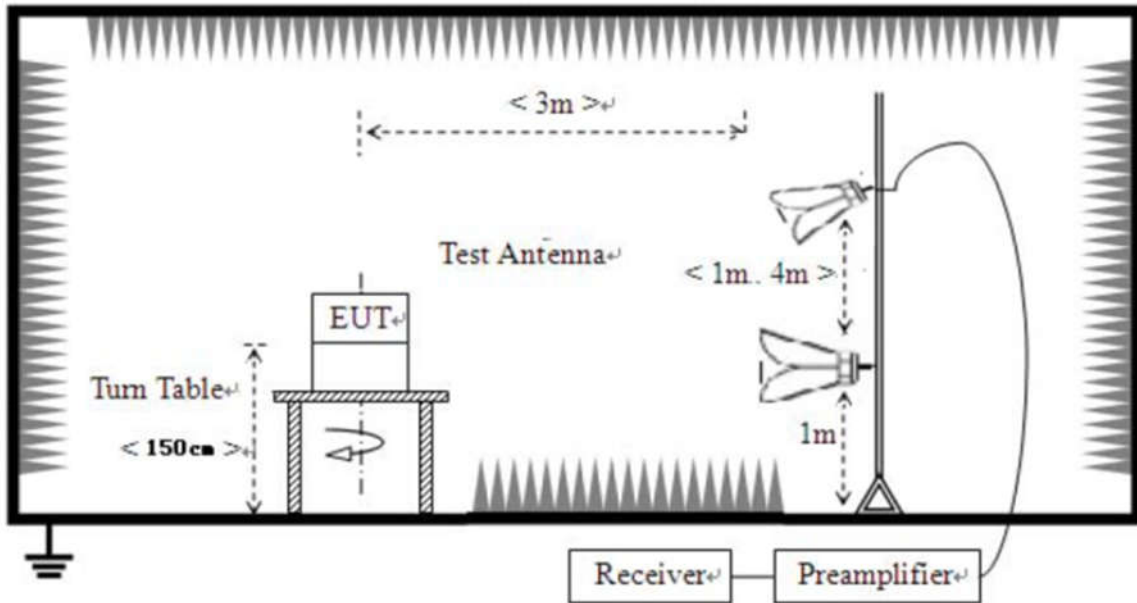
For radiated emissions from 9 kHz to 30 MHz



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_5700MHz (ANT11) channel is the worst mode, the worst case is recorded in this report.

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

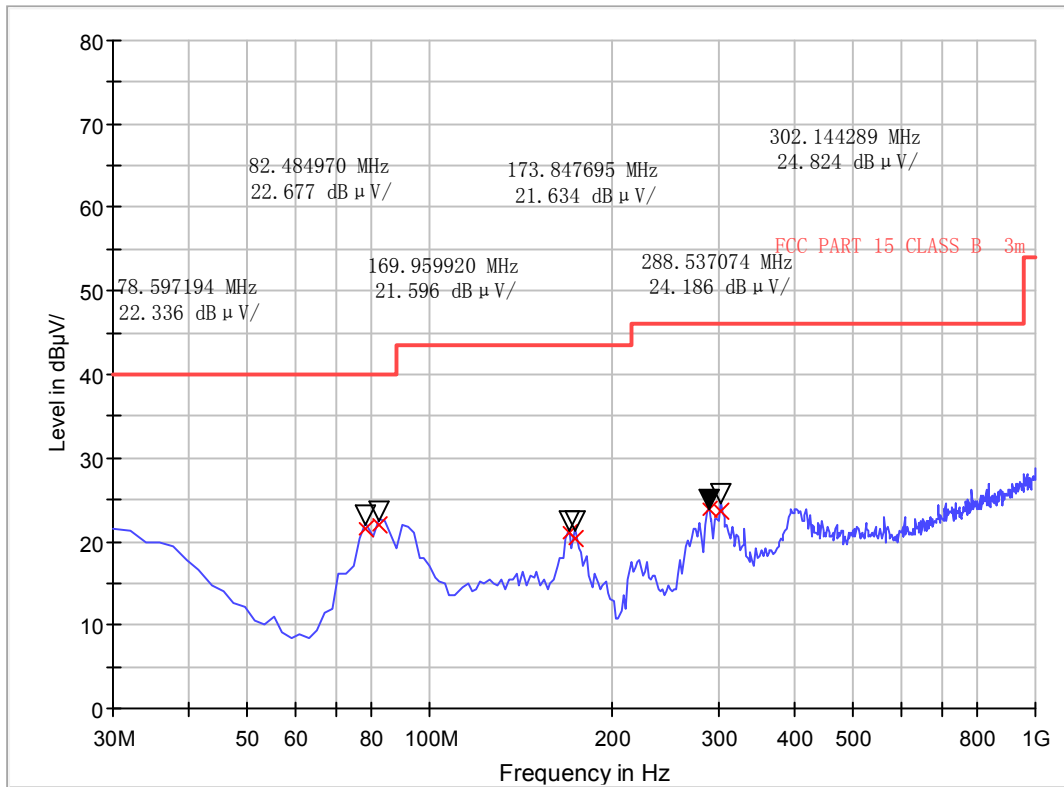
For above 18GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



For 30MHz to 1000 MHz

Test site:	3M anechoic chamber	Environment:	Temp: 23°C; Humi:48%;101kPa
Operator:	Deng ShanFei	Test Date:	2024.03.07
Test Mode:	5G WIFI - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
78.600000	21.53	120.000	100.0	H	10.1	18.47	40.0
82.480000	21.99	120.000	100.0	H	7.2	18.01	40.0
169.960000	20.96	120.000	100.0	H	9.7	22.54	43.5
173.840000	20.40	120.000	100.0	H	12.3	23.10	43.5
288.520000	23.75	120.000	100.0	H	8.5	22.25	46.0
302.160000	23.66	120.000	100.0	H	16.5	22.34	46.0

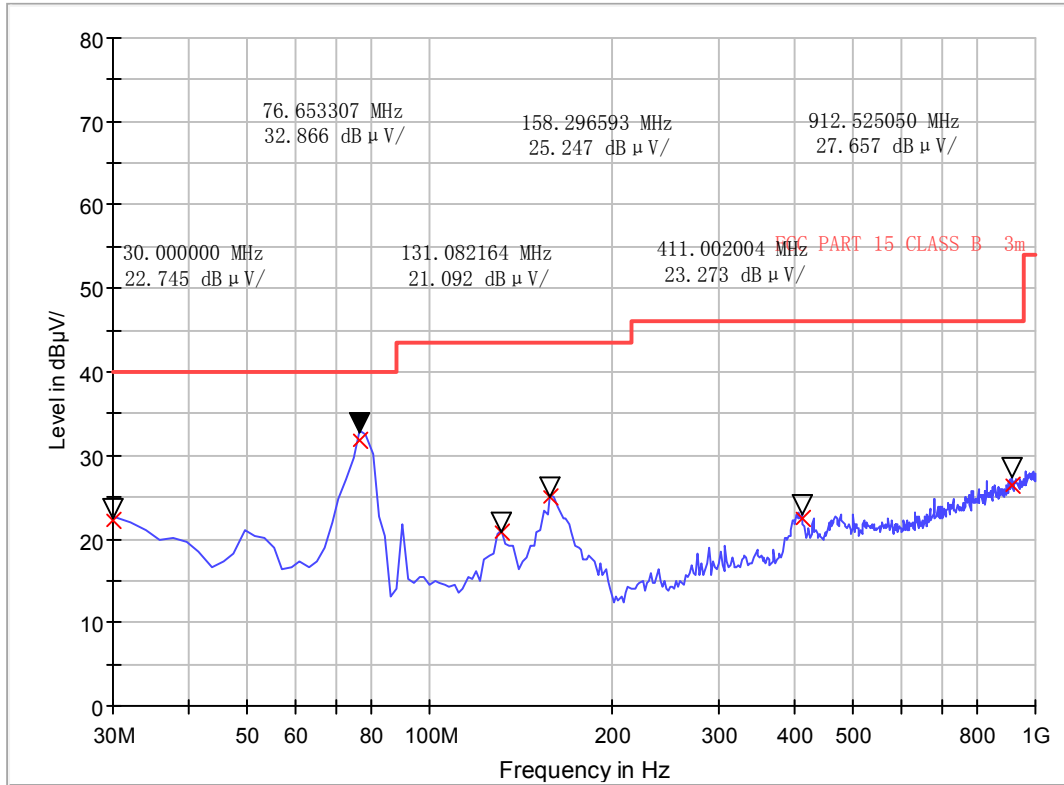
Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. 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:	Deng ShanFei	Test Date:	2024.03.07
Test Mode:	5G WIFI - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	22.31	120.000	100.0	V	21.1	17.69	40.0
76.640000	31.88	120.000	100.0	V	9.2	8.12	40.0
131.080000	20.88	120.000	100.0	V	13.6	22.62	43.5
158.280000	25.01	120.000	100.0	V	13.4	18.49	43.5
411.000000	22.35	120.000	100.0	V	18.5	23.65	46.0
912.520000	26.40	120.000	100.0	V	24.6	19.60	46.0

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).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

**For 1GHz to 40 GHz**

U-NII-1_802.11a_5180MHz - Ant11									
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	49.63	68.20	-18.57	1.50	140	49.19	0.44	Horizontal	Peak
5150.00	39.74	54.00	-14.26	1.50	140	39.30	0.44	Horizontal	Average
10360.00	52.70	68.20	-15.50	1.50	140	42.24	10.46	Horizontal	Peak
10360.00	43.42	54.00	-10.58	1.50	140	32.96	10.46	Horizontal	Average
5150.00	50.14	68.20	-18.06	1.50	260	49.70	0.44	Vertical	Peak
5150.00	40.17	54.00	-13.83	1.50	260	39.73	0.44	Vertical	Average
10360.00	52.36	68.20	-15.84	1.50	260	41.90	10.46	Vertical	Peak
10360.00	43.28	54.00	-10.72	1.50	260	32.82	10.46	Vertical	Average
U-NII-1_802.11a_5240MHz - Ant11									
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	46.17	68.20	-22.03	1.50	140	45.92	0.25	Horizontal	Peak
5350.00	37.62	54.00	-16.38	1.50	140	37.37	0.25	Horizontal	Average
10480.00	52.37	68.20	-15.83	1.50	140	41.37	11.00	Horizontal	Peak
10480.00	43.68	54.00	-10.32	1.50	140	32.68	11.00	Horizontal	Average
5350.00	47.54	68.20	-20.66	1.50	260	47.29	0.25	Vertical	Peak
5350.00	37.95	54.00	-16.05	1.50	260	37.70	0.25	Vertical	Average
10480.00	52.56	68.20	-15.64	1.50	260	41.56	11.00	Vertical	Peak
10480.00	43.49	54.00	-10.51	1.50	260	32.49	11.00	Vertical	Average
<i>Remark:</i>									
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 - 2x2 MIMO**

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	49.94	68.20	-18.26	1.50	140	49.50	0.44	Horizontal	Peak
5150.00	40.57	54.00	-13.43	1.50	140	40.13	0.44	Horizontal	Average
10380.00	52.33	68.20	-15.87	1.50	140	41.80	10.53	Horizontal	Peak
10380.00	44.16	54.00	-9.84	1.50	140	33.63	10.53	Horizontal	Average
5150.00	50.06	68.20	-18.14	1.50	260	49.62	0.44	Vertical	Peak
5150.00	40.10	54.00	-13.90	1.50	260	39.66	0.44	Vertical	Average
10380.00	51.81	68.20	-16.39	1.50	260	41.28	10.53	Vertical	Peak
10380.00	43.32	54.00	-10.68	1.50	260	32.79	10.53	Vertical	Average

U-NII-1_802.11n-HT40_5230MHz - 2x2 MIMO

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	45.00	68.20	-23.20	1.50	140	44.75	0.25	Horizontal	Peak
5350.00	37.56	54.00	-16.44	1.50	140	37.31	0.25	Horizontal	Average
10460.00	52.64	68.20	-15.56	1.50	140	41.73	10.91	Horizontal	Peak
10460.00	43.24	54.00	-10.76	1.50	140	32.33	10.91	Horizontal	Average
5350.00	47.75	68.20	-20.45	1.50	260	47.50	0.25	Vertical	Peak
5350.00	37.83	54.00	-16.17	1.50	260	37.58	0.25	Vertical	Average
10460.00	52.78	68.20	-15.42	1.50	260	41.87	10.91	Vertical	Peak
10460.00	44.66	54.00	-9.34	1.50	260	33.75	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)	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	50.19	68.20	-18.01	1.50	140	49.75	0.44	Horizontal	Peak
5150.00	40.72	54.00	-13.28	1.50	140	40.28	0.44	Horizontal	Average
5350.00	44.52	68.20	-23.68	1.50	140	44.27	0.25	Horizontal	Peak
5350.00	37.81	54.00	-16.19	1.50	140	37.56	0.25	Horizontal	Average
10420.00	52.45	68.20	-15.75	1.50	140	41.74	10.71	Horizontal	Peak
10420.00	42.99	54.00	-11.01	1.50	140	32.28	10.71	Horizontal	Average
5150.00	50.31	68.20	-17.89	1.50	260	49.87	0.44	Vertical	Peak
5150.00	40.10	54.00	-13.90	1.50	260	39.66	0.44	Vertical	Average
5350.00	48.17	68.20	-20.03	1.50	260	47.92	0.25	Vertical	Peak
5350.00	38.22	54.00	-15.78	1.50	260	37.97	0.25	Vertical	Average
10420.00	52.98	68.20	-15.22	1.50	260	42.27	10.71	Vertical	Peak
10420.00	44.41	54.00	-9.59	1.50	260	33.70	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 - Ant11									
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	49.69	68.20	-18.51	1.50	140	49.25	0.44	Horizontal	Peak
5150.00	39.65	54.00	-14.35	1.50	140	39.21	0.44	Horizontal	Average
10520.00	52.20	68.20	-16.00	1.50	140	41.02	11.18	Horizontal	Peak
10520.00	43.31	54.00	-10.69	1.50	140	32.13	11.18	Horizontal	Average
5150.00	49.87	68.20	-18.33	1.50	260	49.43	0.44	Vertical	Peak
5150.00	39.72	54.00	-14.28	1.50	260	39.28	0.44	Vertical	Average
10520.00	52.17	68.20	-16.03	1.50	260	40.99	11.18	Vertical	Peak
10520.00	43.29	54.00	-10.71	1.50	260	32.11	11.18	Vertical	Average

U-NII-2A_802.11a_5320MHz - Ant11									
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	46.48	68.20	-21.72	1.50	140	46.23	0.25	Horizontal	Peak
5350.00	36.53	54.00	-17.47	1.50	140	36.28	0.25	Horizontal	Average
10640.00	52.50	68.20	-15.70	1.50	140	41.18	11.32	Horizontal	Peak
10640.00	43.63	54.00	-10.37	1.50	140	32.31	11.32	Horizontal	Average
5350.00	47.92	68.20	-20.28	1.50	260	47.67	0.25	Vertical	Peak
5350.00	38.48	54.00	-15.52	1.50	260	38.23	0.25	Vertical	Average
10640.00	53.36	68.20	-14.84	1.50	260	42.04	11.32	Vertical	Peak
10640.00	42.98	54.00	-11.02	1.50	260	31.66	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 - 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	49.08	68.20	-19.12	1.50	140	48.64	0.44	Horizontal	Peak
5150.00	40.31	54.00	-13.69	1.50	140	39.87	0.44	Horizontal	Average
10540.00	52.14	68.20	-16.06	1.50	140	40.88	11.26	Horizontal	Peak
10540.00	43.12	54.00	-10.88	1.50	140	31.86	11.26	Horizontal	Average
5150.00	48.96	68.20	-19.24	1.50	260	48.52	0.44	Vertical	Peak
5150.00	39.78	54.00	-14.22	1.50	260	39.34	0.44	Vertical	Average
10540.00	53.47	68.20	-14.73	1.50	260	42.21	11.26	Vertical	Peak
10540.00	43.06	54.00	-10.94	1.50	260	31.80	11.26	Vertical	Average

U-NII-2A_802.11n-HT40_5310MHz - 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
5350.00	46.65	68.20	-21.55	1.50	140	46.40	0.25	Horizontal	Peak
5350.00	36.35	54.00	-17.65	1.50	140	36.10	0.25	Horizontal	Average
10620.00	52.09	68.20	-16.11	1.50	140	40.68	11.41	Horizontal	Peak
10620.00	43.62	54.00	-10.38	1.50	140	32.21	11.41	Horizontal	Average
5350.00	48.37	68.20	-19.83	1.50	260	48.12	0.25	Vertical	Peak
5350.00	38.30	54.00	-15.70	1.50	260	38.05	0.25	Vertical	Average
10620.00	53.14	68.20	-15.06	1.50	260	41.73	11.41	Vertical	Peak
10620.00	42.91	54.00	-11.09	1.50	260	31.50	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 - 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	49.18	68.20	-19.02	1.50	140	48.74	0.44	Horizontal	Peak
5150.00	40.33	54.00	-13.67	1.50	140	39.89	0.44	Horizontal	Average
5350.00	46.49	68.20	-21.71	1.50	140	46.24	0.25	Horizontal	Peak
5350.00	36.18	54.00	-17.82	1.50	140	35.93	0.25	Horizontal	Average
10580.00	51.67	68.20	-16.53	1.50	140	40.23	11.44	Horizontal	Peak
10580.00	43.94	54.00	-10.06	1.50	140	32.50	11.44	Horizontal	Average
5150.00	48.98	68.20	-19.22	1.50	260	48.54	0.44	Vertical	Peak
5150.00	39.62	54.00	-14.38	1.50	260	39.18	0.44	Vertical	Average
5350.00	48.06	68.20	-20.14	1.50	260	47.81	0.25	Vertical	Peak
5350.00	37.71	54.00	-16.29	1.50	260	37.46	0.25	Vertical	Average
10580.00	52.88	68.20	-15.32	1.50	260	41.44	11.44	Vertical	Peak
10580.00	43.29	54.00	-10.71	1.50	260	31.85	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 - 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	49.15	68.20	-19.05	1.50	140	48.71	0.44	Horizontal	Peak
5150.00	40.28	54.00	-13.72	1.50	140	39.84	0.44	Horizontal	Average
5350.00	46.12	68.20	-22.08	1.50	140	45.87	0.25	Horizontal	Peak
5350.00	35.53	54.00	-18.47	1.50	140	35.28	0.25	Horizontal	Average
10500.00	52.15	68.20	-16.05	1.50	140	41.06	11.09	Horizontal	Peak
10500.00	43.84	54.00	-10.16	1.50	140	32.75	11.09	Horizontal	Average
5150.00	48.54	68.20	-19.66	1.50	260	48.10	0.44	Vertical	Peak
5150.00	39.60	54.00	-14.40	1.50	260	39.16	0.44	Vertical	Average
5350.00	48.42	68.20	-19.78	1.50	260	48.17	0.25	Vertical	Peak
5350.00	37.98	54.00	-16.02	1.50	260	37.73	0.25	Vertical	Average
10500.00	52.51	68.20	-15.69	1.50	260	41.42	11.09	Vertical	Peak
10500.00	43.14	54.00	-10.86	1.50	260	32.05	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 - Ant11									
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	46.36	68.20	-21.84	1.50	140	46.40	-0.04	Horizontal	Peak
5470.00	38.12	54.00	-15.88	1.50	140	38.16	-0.04	Horizontal	Average
11000.00	52.83	68.20	-15.37	1.50	140	41.41	11.42	Horizontal	Peak
11000.00	43.69	54.00	-10.31	1.50	140	32.27	11.42	Horizontal	Average
5470.00	47.14	68.20	-21.06	1.50	260	47.18	-0.04	Vertical	Peak
5470.00	38.18	54.00	-15.82	1.50	260	38.22	-0.04	Vertical	Average
11000.00	53.54	68.20	-14.66	1.50	260	42.12	11.42	Vertical	Peak
11000.00	43.36	54.00	-10.64	1.50	260	31.94	11.42	Vertical	Average

U-NII-2C_802.11a_5700MHz - Ant11									
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	48.61	68.20	-19.59	1.50	140	47.31	1.30	Horizontal	Peak
5725.00	38.87	54.00	-15.13	1.50	140	37.57	1.30	Horizontal	Average
11400.00	52.67	68.20	-15.53	1.50	140	41.20	11.47	Horizontal	Peak
11400.00	43.42	54.00	-10.58	1.50	140	31.95	11.47	Horizontal	Average
5725.00	48.55	68.20	-19.65	1.50	260	47.25	1.30	Vertical	Peak
5725.00	38.90	54.00	-15.10	1.50	260	37.60	1.30	Vertical	Average
11400.00	53.71	68.20	-14.49	1.50	260	42.24	11.47	Vertical	Peak
11400.00	43.58	54.00	-10.42	1.50	260	32.11	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 - 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
5470.00	46.23	68.20	-21.97	1.50	140	46.27	-0.04	Horizontal	Peak
5470.00	38.31	54.00	-15.69	1.50	140	38.35	-0.04	Horizontal	Average
11020.00	52.91	68.20	-15.29	1.50	140	41.45	11.46	Horizontal	Peak
11020.00	43.83	54.00	-10.17	1.50	140	32.37	11.46	Horizontal	Average
5470.00	47.11	68.20	-21.09	1.50	260	47.15	-0.04	Vertical	Peak
5470.00	38.64	54.00	-15.36	1.50	260	38.68	-0.04	Vertical	Average
11020.00	53.30	68.20	-14.90	1.50	260	41.84	11.46	Vertical	Peak
11020.00	43.65	54.00	-10.35	1.50	260	32.19	11.46	Vertical	Average

U-NII-2C_802.11n-HT40_5670MHz - 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
5725.00	48.39	68.20	-19.81	1.50	140	47.09	1.30	Horizontal	Peak
5725.00	39.39	54.00	-14.61	1.50	140	38.09	1.30	Horizontal	Average
11340.00	54.44	68.20	-13.76	1.50	140	43.02	11.42	Horizontal	Peak
11340.00	43.12	54.00	-10.88	1.50	140	31.70	11.42	Horizontal	Average
5725.00	48.06	68.20	-20.14	1.50	260	46.76	1.30	Vertical	Peak
5725.00	40.10	54.00	-13.90	1.50	260	38.80	1.30	Vertical	Average
11340.00	54.33	68.20	-13.87	1.50	260	42.91	11.42	Vertical	Peak
11340.00	44.29	54.00	-9.71	1.50	260	32.87	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 - 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
5470.00	45.96	68.20	-22.24	1.50	140	46.00	-0.04	Horizontal	Peak
5470.00	38.08	54.00	-15.92	1.50	140	38.12	-0.04	Horizontal	Average
5725.00	48.53	68.20	-19.67	1.50	140	47.23	1.30	Horizontal	Peak
5725.00	39.35	54.00	-14.65	1.50	140	38.05	1.30	Horizontal	Average
11060.00	53.69	68.20	-14.51	1.50	140	42.16	11.53	Horizontal	Peak
11060.00	42.89	54.00	-11.11	1.50	140	31.36	11.53	Horizontal	Average
5470.00	46.91	68.20	-21.29	1.50	260	46.95	-0.04	Vertical	Peak
5470.00	38.20	54.00	-15.80	1.50	260	38.24	-0.04	Vertical	Average
5725.00	48.49	68.20	-19.71	1.50	260	47.19	1.30	Vertical	Peak
5725.00	39.98	54.00	-14.02	1.50	260	38.68	1.30	Vertical	Average
11060.00	53.94	68.20	-14.26	1.50	260	42.41	11.53	Vertical	Peak
11060.00	43.42	54.00	-10.58	1.50	260	31.89	11.53	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 - 2x2 MIMO

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	46.25	68.20	-21.95	1.50	140	46.29	-0.04	Horizontal	Peak
5470.00	38.29	54.00	-15.71	1.50	140	38.33	-0.04	Horizontal	Average
5725.00	48.54	68.20	-19.66	1.50	140	47.24	1.30	Horizontal	Peak
5725.00	39.55	54.00	-14.45	1.50	140	38.25	1.30	Horizontal	Average
11140.00	53.70	68.20	-14.50	1.50	140	42.35	11.35	Horizontal	Peak
11140.00	42.72	54.00	-11.28	1.50	140	31.37	11.35	Horizontal	Average
5470.00	47.02	68.20	-21.18	1.50	260	47.06	-0.04	Vertical	Peak
5470.00	38.52	54.00	-15.48	1.50	260	38.56	-0.04	Vertical	Average
5725.00	48.47	68.20	-19.73	1.50	260	47.17	1.30	Vertical	Peak
5725.00	39.62	54.00	-14.38	1.50	260	38.32	1.30	Vertical	Average
11140.00	53.84	68.20	-14.36	1.50	260	42.49	11.35	Vertical	Peak
11140.00	43.46	54.00	-10.54	1.50	260	32.11	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 - Ant11**

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	50.95	68.20	-17.25	1.50	140	50.15	0.80	Horizontal	Peak
5700.00	51.60	105.20	-53.60	1.50	140	50.36	1.24	Horizontal	Peak
5720.00	51.45	110.80	-59.35	1.50	140	50.17	1.28	Horizontal	Peak
5725.00	51.61	122.20	-70.59	1.50	140	50.31	1.30	Horizontal	Peak
11490.00	52.87	68.20	-15.33	1.50	140	41.32	11.55	Horizontal	Peak
11490.00	42.62	54.00	-11.38	1.50	140	31.07	11.55	Horizontal	Average
5650.00	50.43	68.20	-17.77	1.50	260	49.63	0.80	Vertical	Peak
5700.00	50.80	105.20	-54.40	1.50	260	49.56	1.24	Vertical	Peak
5720.00	52.40	110.80	-58.40	1.50	260	51.12	1.28	Vertical	Peak
5725.00	51.38	122.20	-70.82	1.50	260	50.08	1.30	Vertical	Peak
11490.00	52.95	68.20	-15.25	1.50	260	41.40	11.55	Vertical	Peak
11490.00	42.72	54.00	-11.28	1.50	260	31.17	11.55	Vertical	Average

U-NII-3_802.11a_5825MHz - Ant11

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	51.30	122.20	-70.90	1.50	140	49.48	1.82	Horizontal	Peak
5855.00	52.32	110.80	-58.48	1.50	140	50.47	1.85	Horizontal	Peak
5875.00	52.27	105.20	-52.93	1.50	140	50.29	1.98	Horizontal	Peak
5925.00	51.22	68.20	-16.98	1.50	140	49.10	2.12	Horizontal	Peak
11650.00	52.54	68.20	-15.66	1.50	140	40.90	11.64	Horizontal	Peak
11650.00	42.49	54.00	-11.51	1.50	140	30.85	11.64	Horizontal	Average
5850.00	52.27	122.20	-69.93	1.50	260	50.45	1.82	Vertical	Peak
5855.00	52.68	110.80	-58.12	1.50	260	50.83	1.85	Vertical	Peak
5875.00	52.95	105.20	-52.25	1.50	260	50.97	1.98	Vertical	Peak
5925.00	53.30	68.20	-14.90	1.50	260	51.18	2.12	Vertical	Peak
11650.00	52.76	68.20	-15.44	1.50	260	41.12	11.64	Vertical	Peak
11650.00	42.56	54.00	-11.44	1.50	260	30.92	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 - 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
5650.00	51.05	68.20	-17.15	1.50	140	50.25	0.80	Horizontal	Peak
5700.00	51.42	105.20	-53.78	1.50	140	50.18	1.24	Horizontal	Peak
5720.00	51.02	110.80	-59.78	1.50	140	49.74	1.28	Horizontal	Peak
5725.00	52.74	122.20	-69.46	1.50	140	51.44	1.30	Horizontal	Peak
11510.00	52.03	68.20	-16.17	1.50	140	40.47	11.56	Horizontal	Peak
11510.00	42.24	54.00	-11.76	1.50	140	30.68	11.56	Horizontal	Average
5650.00	50.22	68.20	-17.98	1.50	260	49.42	0.80	Vertical	Peak
5700.00	50.68	105.20	-54.52	1.50	260	49.44	1.24	Vertical	Peak
5720.00	52.39	110.80	-58.41	1.50	260	51.11	1.28	Vertical	Peak
5725.00	50.21	122.20	-71.99	1.50	260	48.91	1.30	Vertical	Peak
11510.00	51.72	68.20	-16.48	1.50	260	40.16	11.56	Vertical	Peak
11510.00	41.93	54.00	-12.07	1.50	260	30.37	11.56	Vertical	Average

U-NII-3_802.11n-HT40_5795MHz - 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
5850.00	50.99	122.20	-71.21	1.50	140	49.17	1.82	Horizontal	Peak
5855.00	51.59	110.80	-59.21	1.50	140	49.74	1.85	Horizontal	Peak
5875.00	52.04	105.20	-53.16	1.50	140	50.06	1.98	Horizontal	Peak
5925.00	51.02	68.20	-17.18	1.50	140	48.90	2.12	Horizontal	Peak
11590.00	52.66	68.20	-15.54	1.50	140	41.15	11.51	Horizontal	Peak
11590.00	41.76	54.00	-12.24	1.50	140	30.25	11.51	Horizontal	Average
5850.00	51.88	122.20	-70.32	1.50	260	50.06	1.82	Vertical	Peak
5855.00	53.00	110.80	-57.80	1.50	260	51.15	1.85	Vertical	Peak
5875.00	53.34	105.20	-51.86	1.50	260	51.36	1.98	Vertical	Peak
5925.00	52.70	68.20	-15.50	1.50	260	50.58	2.12	Vertical	Peak
11590.00	52.70	68.20	-15.50	1.50	260	41.19	11.51	Vertical	Peak
11590.00	41.63	54.00	-12.37	1.50	260	30.12	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 - 2x2 MIMO**

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
5650.00	51.52	68.20	-16.68	1.50	140	50.72	0.80	Horizontal	Peak
5700.00	51.59	105.20	-53.61	1.50	140	50.35	1.24	Horizontal	Peak
5720.00	51.07	110.80	-59.73	1.50	140	49.79	1.28	Horizontal	Peak
5725.00	52.65	122.20	-69.55	1.50	140	51.35	1.30	Horizontal	Peak
5850.00	51.18	122.20	-71.02	1.50	140	49.36	1.82	Horizontal	Peak
5855.00	51.86	110.80	-58.94	1.50	140	50.01	1.85	Horizontal	Peak
5875.00	52.52	105.20	-52.68	1.50	140	50.54	1.98	Horizontal	Peak
5925.00	50.46	68.20	-17.74	1.50	140	48.34	2.12	Horizontal	Peak
11550.00	53.10	68.20	-15.10	1.50	140	41.56	11.54	Horizontal	Peak
11550.00	41.62	54.00	-12.38	1.50	140	30.08	11.54	Horizontal	Average
5650.00	50.94	68.20	-17.26	1.50	260	50.14	0.80	Vertical	Peak
5700.00	50.76	105.20	-54.44	1.50	260	49.52	1.24	Vertical	Peak
5720.00	52.11	110.80	-58.69	1.50	260	50.83	1.28	Vertical	Peak
5725.00	50.29	122.20	-71.91	1.50	260	48.99	1.30	Vertical	Peak
5850.00	51.58	122.20	-70.62	1.50	260	49.76	1.82	Vertical	Peak
5855.00	53.21	110.80	-57.59	1.50	260	51.36	1.85	Vertical	Peak
5875.00	52.99	105.20	-52.21	1.50	260	51.01	1.98	Vertical	Peak
5925.00	53.01	68.20	-15.19	1.50	260	50.89	2.12	Vertical	Peak
11550.00	52.76	68.20	-15.44	1.50	260	41.22	11.54	Vertical	Peak
11550.00	41.84	54.00	-12.16	1.50	260	30.30	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:

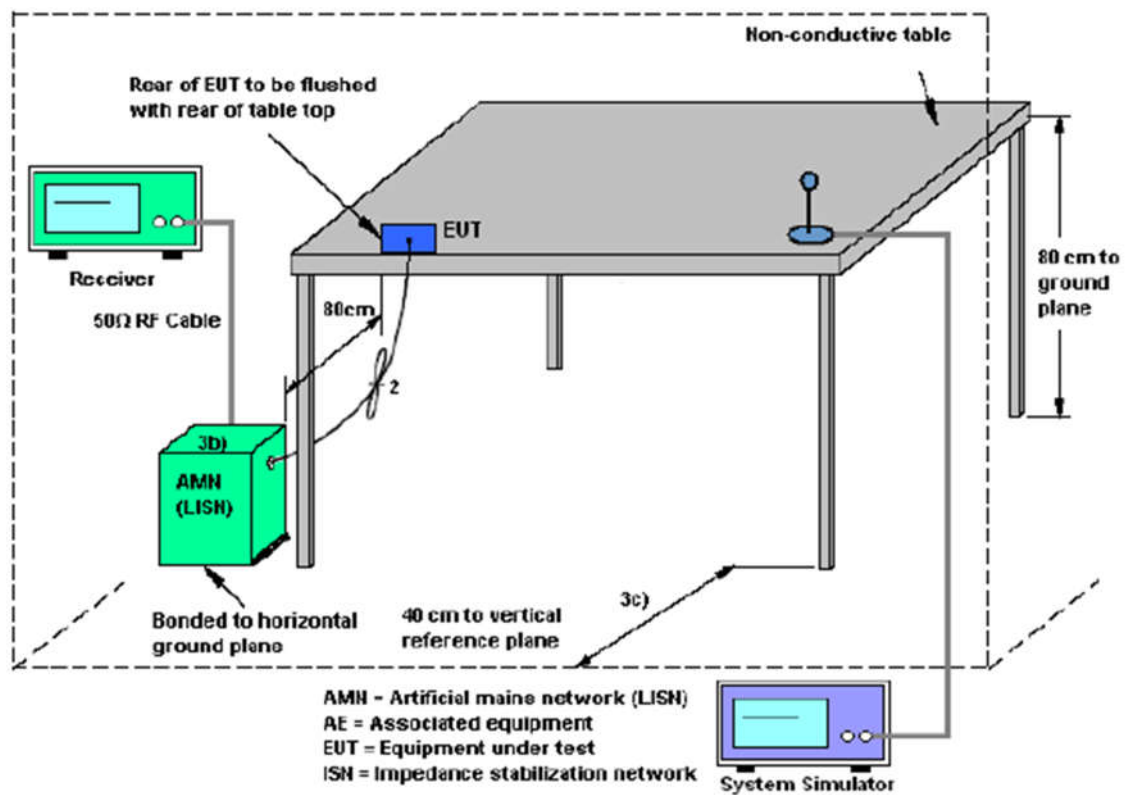
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

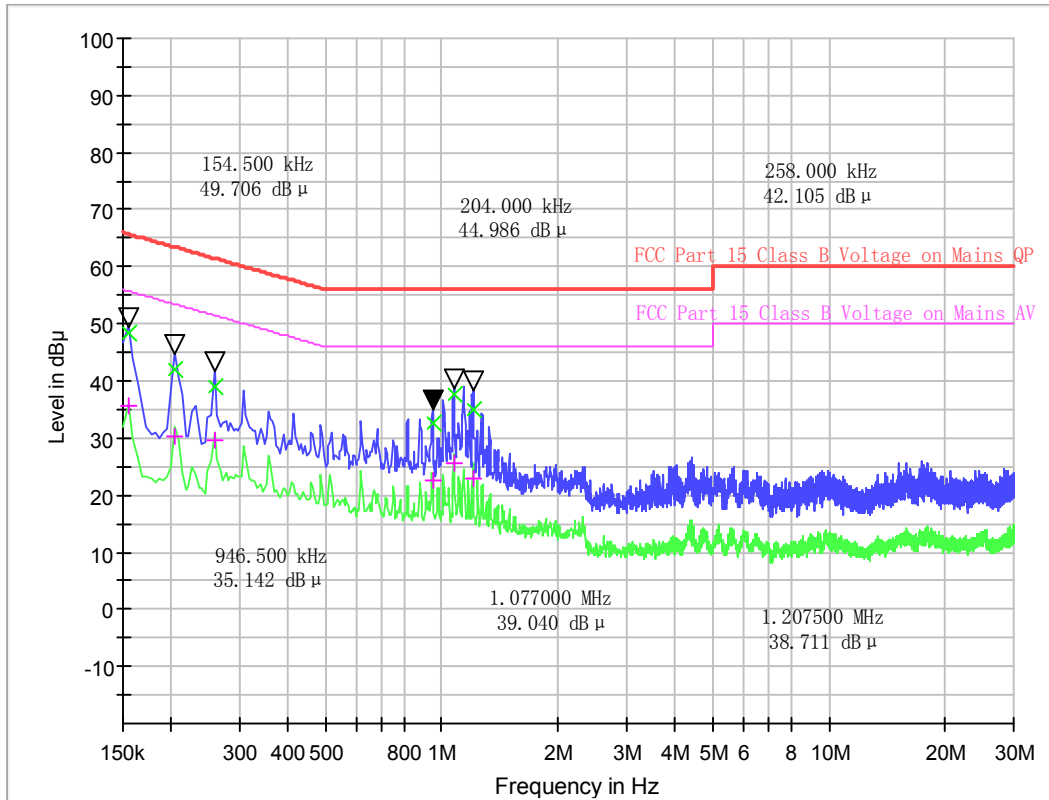
The EUT configuration of the emission tests is 5G WLAN Link + Charging from Adapter.

All of the EUT Configure mode were tested and found 802.11a_5180MHz channel is the worst mode, the worst case is recorded in this report.



Project Information

Test site:	Shield ROOM 1	Environment:	Temp: 23°C; Humi:53%;101kPa
Operator:	LIAOHONGTING	Test Date:	2024.03.06
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)
0.154500	48.45	35.48	20.1	17.30	65.8	20.27	55.8
0.204000	41.93	30.42	19.8	21.52	63.4	23.03	53.4
0.258000	39.09	29.53	19.9	22.41	61.5	21.97	51.5
0.946500	32.67	22.55	19.9	23.33	56.0	23.45	46.0
1.077000	37.58	25.71	19.8	18.42	56.0	20.29	46.0
1.207500	35.13	22.96	19.8	20.87	56.0	23.04	46.0

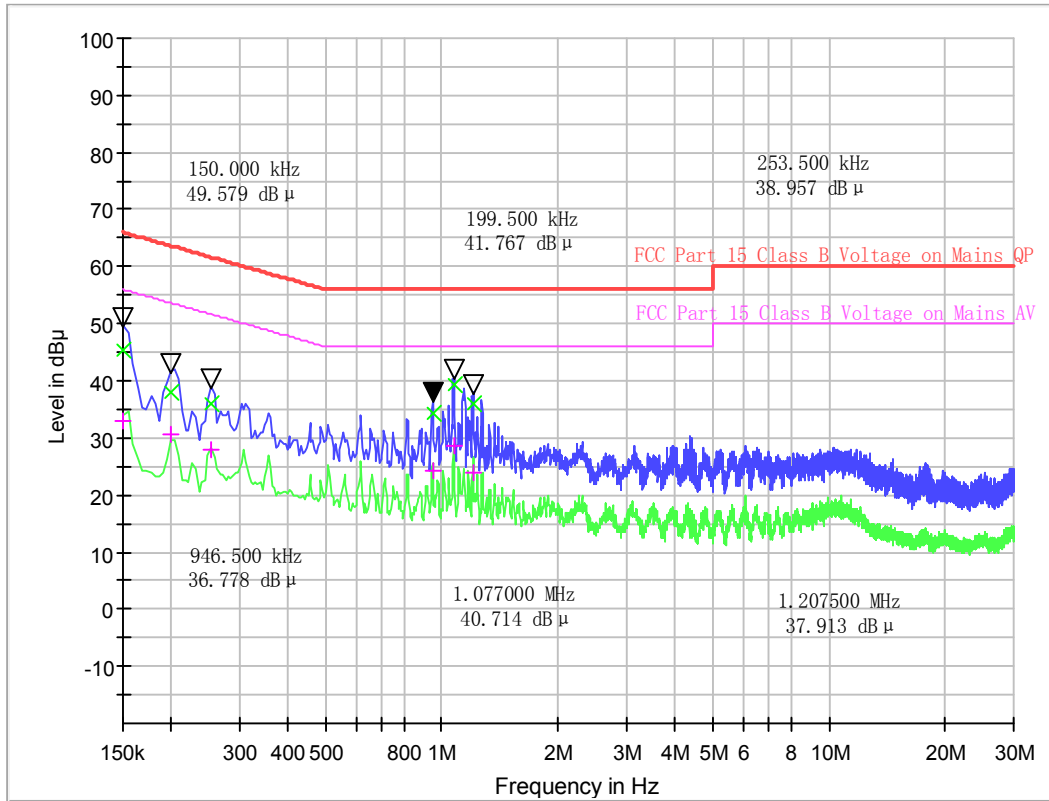
Test Result : Pass

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



Project Information

Test site:	Shield ROOM 1	Environment:	Temp: 23°C; Humi:53%;101kPa
Operator:	LIAOHONGTING	Test Date:	2024.03.06
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)
0.150000	45.45	33.08	20.0	20.55	66.0	22.92	56.0
0.199500	37.88	30.58	19.8	25.75	63.6	23.05	53.6
0.253500	35.86	28.02	19.8	25.78	61.6	23.62	51.6
0.946500	34.46	24.21	19.9	21.54	56.0	21.79	46.0
1.077000	39.20	28.45	19.9	16.80	56.0	17.55	46.0
1.207500	35.95	23.89	19.9	20.05	56.0	22.11	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	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2022.06.09	2025.06.08
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	80RF1000-1000	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	2023.03.16	2024.03.15
					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	2019.03.26	2024.03.25
					2024.02.27	2027.02.26
13	Constant Temperature Humidity Chamber	ESPEC	SU-642	A150802409	2023.03.18	2024.03.17
					2024.02.22	2025.02.21
14	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
15	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07



4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. 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%($U=2Uc(y)$)	2.8dB
--	-------

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

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

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

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

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

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

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

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

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

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

Uncertainty of Occupied Bandwidth Measurement

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



Appendix A

Output power Test Result and Data

U-NII-1 AVGSA Output Power - SISO					
Mode	Frequency (MHz)	Ant	Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	Ant13	15.82	24	Pass
802.11n (20MHz)	5180	Ant11	17.68	24	Pass
802.11n (20MHz)	5220	Ant13	15.50	24	Pass
802.11n (20MHz)	5220	Ant11	17.64	24	Pass
802.11n (20MHz)	5240	Ant13	15.51	24	Pass
802.11n (20MHz)	5240	Ant11	17.87	24	Pass
802.11n (40MHz)	5190	Ant13	15.84	24	Pass
802.11n (40MHz)	5190	Ant11	17.77	24	Pass
802.11n (40MHz)	5230	Ant13	15.60	24	Pass
802.11n (40MHz)	5230	Ant11	17.67	24	Pass
802.11ac (20MHz)	5180	Ant13	15.88	24	Pass
802.11ac (20MHz)	5180	Ant11	17.67	24	Pass
802.11ac (20MHz)	5220	Ant13	15.51	24	Pass
802.11ac (20MHz)	5220	Ant11	17.62	24	Pass
802.11ac (20MHz)	5240	Ant13	15.49	24	Pass
802.11ac (20MHz)	5240	Ant11	17.89	24	Pass
802.11ac (40MHz)	5190	Ant13	15.83	24	Pass
802.11ac (40MHz)	5190	Ant11	17.93	24	Pass
802.11ac (40MHz)	5230	Ant13	15.62	24	Pass
802.11ac (40MHz)	5230	Ant11	17.97	24	Pass
802.11ac (80MHz)	5210	Ant13	15.64	24	Pass
802.11ac (80MHz)	5210	Ant11	17.56	24	Pass
802.11a (20MHz)	5180	Ant13	16.25	24	Pass
802.11a (20MHz)	5180	Ant11	18.53	24	Pass
802.11a (20MHz)	5220	Ant13	16.06	24	Pass
802.11a (20MHz)	5220	Ant11	18.61	24	Pass
802.11a (20MHz)	5240	Ant13	16.05	24	Pass
802.11a (20MHz)	5240	Ant11	18.84	24	Pass
802.11ax (20MHz)	5180	Ant13	15.89	24	Pass



802.11ax (20MHz)	5180	Ant11	17.78	24	Pass
802.11ax (20MHz)	5220	Ant13	15.62	24	Pass
802.11ax (20MHz)	5220	Ant11	17.75	24	Pass
802.11ax (20MHz)	5240	Ant13	15.62	24	Pass
802.11ax (20MHz)	5240	Ant11	17.98	24	Pass
802.11ax (40MHz)	5190	Ant13	15.79	24	Pass
802.11ax (40MHz)	5190	Ant11	17.80	24	Pass
802.11ax (40MHz)	5230	Ant13	15.59	24	Pass
802.11ax (40MHz)	5230	Ant11	17.98	24	Pass
802.11ax (80MHz)	5210	Ant13	15.59	24	Pass
802.11ax (80MHz)	5210	Ant11	15.47	24	Pass



U-NII-1 AVGSA Output Power - MIMO						
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	Ant13	14.76	17.63	24	Pass
802.11n (20MHz)	5180	Ant11	14.47			
802.11n (20MHz)	5220	Ant13	14.48	17.61	24	Pass
802.11n (20MHz)	5220	Ant11	14.71			
802.11n (20MHz)	5240	Ant13	14.70	17.74	24	Pass
802.11n (20MHz)	5240	Ant11	14.76			
802.11n (40MHz)	5190	Ant13	13.90	16.87	24	Pass
802.11n (40MHz)	5190	Ant11	13.81			
802.11n (40MHz)	5230	Ant13	13.72	16.78	24	Pass
802.11n (40MHz)	5230	Ant11	13.81			
802.11ac (20MHz)	5180	Ant13	14.25	17.18	24	Pass
802.11ac (20MHz)	5180	Ant11	14.08			
802.11ac (20MHz)	5220	Ant13	14.22	17.11	24	Pass
802.11ac (20MHz)	5220	Ant11	13.97			
802.11ac (20MHz)	5240	Ant13	14.00	17.23	24	Pass
802.11ac (20MHz)	5240	Ant11	14.43			
802.11ac (40MHz)	5190	Ant13	13.97	16.81	24	Pass
802.11ac (40MHz)	5190	Ant11	13.63			
802.11ac (40MHz)	5230	Ant13	13.69	16.84	24	Pass
802.11ac (40MHz)	5230	Ant11	13.97			
802.11ac (80MHz)	5210	Ant13	13.49	16.42	24	Pass
802.11ac (80MHz)	5210	Ant11	13.32			
802.11ax (20MHz)	5180	Ant13	14.42	17.25	24	Pass
802.11ax (20MHz)	5180	Ant11	14.05			
802.11ax (20MHz)	5220	Ant13	14.22	17.35	24	Pass
802.11ax (20MHz)	5220	Ant11	14.45			
802.11ax (20MHz)	5240	Ant13	14.26	17.33	24	Pass
802.11ax (20MHz)	5240	Ant11	14.37			
802.11ax (40MHz)	5190	Ant13	13.93	16.84	24	Pass
802.11ax (40MHz)	5190	Ant11	13.72			
802.11ax (40MHz)	5230	Ant13	13.72	16.76	24	Pass
802.11ax (40MHz)	5230	Ant11	13.77			



802.11ax (80MHz)	5210	Ant13	13.81	16.62	24	Pass
802.11ax (80MHz)	5210	Ant11	13.40			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total Power = $10 \cdot \log \{10^{(\text{Ant13 Power}/10)} + 10^{(\text{Ant11 Power}/10)}\}$.



U-NII-2a AVGSA Output Power - SISO					
Mode	Frequency (MHz)	Ant	Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5260	Ant13	17.71	24.00	Pass
802.11n (20MHz)	5260	Ant11	17.79	24.00	Pass
802.11n (20MHz)	5300	Ant13	18.01	24.00	Pass
802.11n (20MHz)	5300	Ant11	17.97	24.00	Pass
802.11n (20MHz)	5320	Ant13	18.03	24.00	Pass
802.11n (20MHz)	5320	Ant11	17.71	24.00	Pass
802.11n (40MHz)	5270	Ant13	17.85	24.00	Pass
802.11n (40MHz)	5270	Ant11	17.90	24.00	Pass
802.11n (40MHz)	5310	Ant13	18.12	24.00	Pass
802.11n (40MHz)	5310	Ant11	17.97	24.00	Pass
802.11ac (20MHz)	5260	Ant13	17.82	24.00	Pass
802.11ac (20MHz)	5260	Ant11	17.98	24.00	Pass
802.11ac (20MHz)	5300	Ant13	17.93	24.00	Pass
802.11ac (20MHz)	5300	Ant11	17.98	24.00	Pass
802.11ac (20MHz)	5320	Ant13	18.03	24.00	Pass
802.11ac (20MHz)	5320	Ant11	17.70	24.00	Pass
802.11ac (40MHz)	5270	Ant13	17.87	24.00	Pass
802.11ac (40MHz)	5270	Ant11	17.91	24.00	Pass
802.11ac (40MHz)	5310	Ant13	18.10	24.00	Pass
802.11ac (40MHz)	5310	Ant11	17.99	24.00	Pass
802.11ac (80MHz)	5290	Ant13	17.79	24.00	Pass
802.11ac (80MHz)	5290	Ant11	17.79	24.00	Pass
802.11ac (160MHz)	5250	Ant13	17.95	24.00	Pass
802.11ac (160MHz)	5250	Ant11	17.92	24.00	Pass
802.11a (20MHz)	5260	Ant13	18.25	24.00	Pass
802.11a (20MHz)	5260	Ant11	18.71	24.00	Pass
802.11a (20MHz)	5300	Ant13	18.35	24.00	Pass
802.11a (20MHz)	5300	Ant11	18.39	24.00	Pass
802.11a (20MHz)	5320	Ant13	18.62	24.00	Pass
802.11a (20MHz)	5320	Ant11	18.34	24.00	Pass
802.11ax (160MHz)	5250	Ant13	18.25	24.00	Pass
802.11ax (160MHz)	5250	Ant11	17.92	24.00	Pass



802.11ax (20MHz)	5260	Ant13	17.88	24.00	Pass
802.11ax (20MHz)	5260	Ant11	18.09	24.00	Pass
802.11ax (20MHz)	5300	Ant13	18.03	24.00	Pass
802.11ax (20MHz)	5300	Ant11	17.84	24.00	Pass
802.11ax (20MHz)	5320	Ant13	18.17	24.00	Pass
802.11ax (20MHz)	5320	Ant11	17.94	24.00	Pass
802.11ax (40MHz)	5270	Ant13	17.84	24.00	Pass
802.11ax (40MHz)	5270	Ant11	17.90	24.00	Pass
802.11ax (40MHz)	5310	Ant13	18.14	24.00	Pass
802.11ax (40MHz)	5310	Ant11	17.94	24.00	Pass
802.11ax (80MHz)	5290	Ant13	17.99	24.00	Pass
802.11ax (80MHz)	5290	Ant11	17.93	24.00	Pass



U-NII-2a AVGSA Output Power - MIMO						
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5260	Ant13	13.87	16.96	24.00	Pass
802.11n (20MHz)	5260	Ant11	14.03			
802.11n (20MHz)	5300	Ant13	13.84	17.14	24.00	Pass
802.11n (20MHz)	5300	Ant11	14.40			
802.11n (20MHz)	5320	Ant13	14.08	17.09	24.00	Pass
802.11n (20MHz)	5320	Ant11	14.07			
802.11n (40MHz)	5270	Ant13	12.82	16.07	24.00	Pass
802.11n (40MHz)	5270	Ant11	13.29			
802.11n (40MHz)	5310	Ant13	13.14	16.25	24.00	Pass
802.11n (40MHz)	5310	Ant11	13.33			
802.11ac (20MHz)	5260	Ant13	13.52	16.63	24.00	Pass
802.11ac (20MHz)	5260	Ant11	13.71			
802.11ac (20MHz)	5300	Ant13	13.40	16.60	24.00	Pass
802.11ac (20MHz)	5300	Ant11	13.78			
802.11ac (20MHz)	5320	Ant13	13.50	16.61	24.00	Pass
802.11ac (20MHz)	5320	Ant11	13.70			
802.11ac (40MHz)	5270	Ant13	12.94	16.12	24.00	Pass
802.11ac (40MHz)	5270	Ant11	13.27			
802.11ac (40MHz)	5310	Ant13	13.08	16.22	24.00	Pass
802.11ac (40MHz)	5310	Ant11	13.34			
802.11ac (80MHz)	5290	Ant13	12.86	16.00	24.00	Pass
802.11ac (80MHz)	5290	Ant11	13.11			
802.11ac (160MHz)	5250	Ant13	12.94	16.11	24.00	Pass
802.11ac (160MHz)	5250	Ant11	13.26			
802.11ax (160MHz)	5250	Ant13	13.30	16.46	24.00	Pass
802.11ax (160MHz)	5250	Ant11	13.60			
802.11ax (20MHz)	5260	Ant13	13.44	16.59	24.00	Pass
802.11ax (20MHz)	5260	Ant11	13.71			
802.11ax (20MHz)	5300	Ant13	13.46	16.81	24.00	Pass
802.11ax (20MHz)	5300	Ant11	14.11			
802.11ax (20MHz)	5320	Ant13	13.82	16.86	24.00	Pass



802.11ax (20MHz)	5320	Ant11	13.88			
802.11ax (40MHz)	5270	Ant13	12.88	16.08	24.00	Pass
802.11ax (40MHz)	5270	Ant11	13.26			
802.11ax (40MHz)	5310	Ant13	13.11	16.24	24.00	Pass
802.11ax (40MHz)	5310	Ant11	13.35			
802.11ax (80MHz)	5290	Ant13	12.98	16.21	24.00	Pass
802.11ax (80MHz)	5290	Ant11	13.40			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total Power = $10 \cdot \log \{10^{(\text{Ant13 Power}/10)} + 10^{(\text{Ant11 Power}/10)}\}$.



U-NII-2c AVGSA Output Power - SISO					
Mode	Frequency (MHz)	Ant	Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5500	Ant13	17.66	24.00	Pass
802.11n (20MHz)	5500	Ant11	17.42	24.00	Pass
802.11n (20MHz)	5580	Ant13	17.36	24.00	Pass
802.11n (20MHz)	5580	Ant11	17.68	24.00	Pass
802.11n (20MHz)	5700	Ant13	17.02	24.00	Pass
802.11n (20MHz)	5700	Ant11	17.74	24.00	Pass
802.11n (40MHz)	5510	Ant13	17.88	24.00	Pass
802.11n (40MHz)	5510	Ant11	17.33	24.00	Pass
802.11n (40MHz)	5550	Ant13	17.79	24.00	Pass
802.11n (40MHz)	5550	Ant11	17.61	24.00	Pass
802.11n (40MHz)	5670	Ant13	17.32	24.00	Pass
802.11n (40MHz)	5670	Ant11	18.04	24.00	Pass
802.11ac (20MHz)	5500	Ant13	17.66	24.00	Pass
802.11ac (20MHz)	5500	Ant11	17.45	24.00	Pass
802.11ac (20MHz)	5580	Ant13	17.35	24.00	Pass
802.11ac (20MHz)	5580	Ant11	17.68	24.00	Pass
802.11ac (20MHz)	5700	Ant13	17.03	24.00	Pass
802.11ac (20MHz)	5700	Ant11	17.70	24.00	Pass
802.11ac (40MHz)	5510	Ant13	17.85	24.00	Pass
802.11ac (40MHz)	5510	Ant11	17.39	24.00	Pass
802.11ac (40MHz)	5550	Ant13	17.83	24.00	Pass
802.11ac (40MHz)	5550	Ant11	17.58	24.00	Pass
802.11ac (40MHz)	5670	Ant13	17.22	24.00	Pass
802.11ac (40MHz)	5670	Ant11	17.96	24.00	Pass
802.11ac (80MHz)	5530	Ant13	17.69	24.00	Pass
802.11ac (80MHz)	5530	Ant11	17.16	24.00	Pass
802.11ac (160MHz)	5570	Ant13	17.58	24.00	Pass
802.11ac (160MHz)	5570	Ant11	17.61	24.00	Pass
802.11a (20MHz)	5500	Ant13	18.18	24.00	Pass
802.11a (20MHz)	5500	Ant11	18.52	24.00	Pass
802.11a (20MHz)	5580	Ant13	17.42	24.00	Pass
802.11a (20MHz)	5580	Ant11	18.75	24.00	Pass



802.11a (20MHz)	5700	Ant13	17.13	24.00	Pass
802.11a (20MHz)	5700	Ant11	18.95	24.00	Pass
802.11ax (160MHz)	5570	Ant13	17.93	24.00	Pass
802.11ax (160MHz)	5570	Ant11	17.78	24.00	Pass
802.11ax (20MHz)	5500	Ant13	17.86	24.00	Pass
802.11ax (20MHz)	5500	Ant11	17.54	24.00	Pass
802.11ax (20MHz)	5580	Ant13	17.47	24.00	Pass
802.11ax (20MHz)	5580	Ant11	17.77	24.00	Pass
802.11ax (20MHz)	5700	Ant13	17.18	24.00	Pass
802.11ax (20MHz)	5700	Ant11	17.87	24.00	Pass
802.11ax (40MHz)	5510	Ant13	17.94	24.00	Pass
802.11ax (40MHz)	5510	Ant11	17.45	24.00	Pass
802.11ax (40MHz)	5550	Ant13	17.85	24.00	Pass
802.11ax (40MHz)	5550	Ant11	17.63	24.00	Pass
802.11ax (40MHz)	5670	Ant13	17.59	24.00	Pass
802.11ax (40MHz)	5670	Ant11	17.94	24.00	Pass
802.11ax (80MHz)	5530	Ant13	17.83	24.00	Pass
802.11ax (80MHz)	5530	Ant11	17.34	24.00	Pass



U-NII-2c AVGSA Output Power - MIMO						
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5500	Ant13	14.90	17.85	24.00	Pass
802.11n (20MHz)	5500	Ant11	14.77			
802.11n (20MHz)	5580	Ant13	14.36	17.77	24.00	Pass
802.11n (20MHz)	5580	Ant11	15.13			
802.11n (20MHz)	5700	Ant13	14.15	17.64	24.00	Pass
802.11n (20MHz)	5700	Ant11	15.06			
802.11n (40MHz)	5510	Ant13	13.81	16.90	24.00	Pass
802.11n (40MHz)	5510	Ant11	13.96			
802.11n (40MHz)	5550	Ant13	13.87	16.96	24.00	Pass
802.11n (40MHz)	5550	Ant11	14.03			
802.11n (40MHz)	5670	Ant13	13.37	17.02	24.00	Pass
802.11n (40MHz)	5670	Ant11	14.56			
802.11ac (20MHz)	5500	Ant13	13.97	17.09	24.00	Pass
802.11ac (20MHz)	5500	Ant11	14.18			
802.11ac (20MHz)	5580	Ant13	13.93	17.27	24.00	Pass
802.11ac (20MHz)	5580	Ant11	14.56			
802.11ac (20MHz)	5700	Ant13	13.52	17.06	24.00	Pass
802.11ac (20MHz)	5700	Ant11	14.53			
802.11ac (40MHz)	5510	Ant13	14.03	17.00	24.00	Pass
802.11ac (40MHz)	5510	Ant11	13.95			
802.11ac (40MHz)	5550	Ant13	13.78	16.91	24.00	Pass
802.11ac (40MHz)	5550	Ant11	14.01			
802.11ac (40MHz)	5670	Ant13	13.42	17.04	24.00	Pass
802.11ac (40MHz)	5670	Ant11	14.57			
802.11ac (80MHz)	5530	Ant13	13.81	16.75	24.00	Pass
802.11ac (80MHz)	5530	Ant11	13.67			
802.11ac (160MHz)	5570	Ant13	13.64	16.89	24.00	Pass
802.11ac (160MHz)	5570	Ant11	14.11			
802.11ax (160MHz)	5570	Ant13	14.14	17.32	24.00	Pass
802.11ax (160MHz)	5570	Ant11	14.48			
802.11ax (20MHz)	5500	Ant13	14.34	17.31	24.00	Pass



802.11ax (20MHz)	5500	Ant11	14.26			
802.11ax (20MHz)	5580	Ant13	13.84	17.33	24.00	Pass
802.11ax (20MHz)	5580	Ant11	14.75			
802.11ax (20MHz)	5700	Ant13	13.67	17.18	24.00	Pass
802.11ax (20MHz)	5700	Ant11	14.61			
802.11ax (40MHz)	5510	Ant13	13.87	16.84	24.00	Pass
802.11ax (40MHz)	5510	Ant11	13.79			
802.11ax (40MHz)	5550	Ant13	13.92	16.97	24.00	Pass
802.11ax (40MHz)	5550	Ant11	14.00			
802.11ax (40MHz)	5670	Ant13	13.18	16.88	24.00	Pass
802.11ax (40MHz)	5670	Ant11	14.46			
802.11ax (80MHz)	5530	Ant13	13.88	16.91	24.00	Pass
802.11ax (80MHz)	5530	Ant11	13.92			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total Power = $10 \cdot \log \{10^{(\text{Ant13 Power}/10)} + 10^{(\text{Ant11 Power}/10)}\}$.



U-NII-3 AVGSA Output Power - SISO					
Mode	Frequency (MHz)	Ant	Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	Ant13	17.52	30.00	Pass
802.11n (20MHz)	5745	Ant11	18.07	30.00	Pass
802.11n (20MHz)	5785	Ant13	17.65	30.00	Pass
802.11n (20MHz)	5785	Ant11	18.09	30.00	Pass
802.11n (20MHz)	5825	Ant13	17.76	30.00	Pass
802.11n (20MHz)	5825	Ant11	18.17	30.00	Pass
802.11n (40MHz)	5755	Ant13	17.85	30.00	Pass
802.11n (40MHz)	5755	Ant11	18.15	30.00	Pass
802.11n (40MHz)	5795	Ant13	18.10	30.00	Pass
802.11n (40MHz)	5795	Ant11	18.21	30.00	Pass
802.11ac (20MHz)	5745	Ant13	17.59	30.00	Pass
802.11ac (20MHz)	5745	Ant11	18.05	30.00	Pass
802.11ac (20MHz)	5785	Ant13	17.74	30.00	Pass
802.11ac (20MHz)	5785	Ant11	18.09	30.00	Pass
802.11ac (20MHz)	5825	Ant13	17.71	30.00	Pass
802.11ac (20MHz)	5825	Ant11	18.22	30.00	Pass
802.11ac (40MHz)	5755	Ant13	17.91	30.00	Pass
802.11ac (40MHz)	5755	Ant11	18.19	30.00	Pass
802.11ac (40MHz)	5795	Ant13	18.08	30.00	Pass
802.11ac (40MHz)	5795	Ant11	18.35	30.00	Pass
802.11ac (80MHz)	5775	Ant13	17.54	30.00	Pass
802.11ac (80MHz)	5775	Ant11	17.92	30.00	Pass
802.11a (20MHz)	5745	Ant13	18.07	30.00	Pass
802.11a (20MHz)	5745	Ant11	18.58	30.00	Pass
802.11a (20MHz)	5785	Ant13	18.07	30.00	Pass
802.11a (20MHz)	5785	Ant11	18.51	30.00	Pass
802.11a (20MHz)	5825	Ant13	18.35	30.00	Pass
802.11a (20MHz)	5825	Ant11	18.69	30.00	Pass
802.11ax (20MHz)	5745	Ant13	17.69	30.00	Pass
802.11ax (20MHz)	5745	Ant11	18.19	30.00	Pass
802.11ax (20MHz)	5785	Ant13	17.92	30.00	Pass
802.11ax (20MHz)	5785	Ant11	18.25	30.00	Pass



802.11ax (20MHz)	5825	Ant13	17.87	30.00	Pass
802.11ax (20MHz)	5825	Ant11	18.31	30.00	Pass
802.11ax (40MHz)	5755	Ant13	17.86	30.00	Pass
802.11ax (40MHz)	5755	Ant11	18.31	30.00	Pass
802.11ax (40MHz)	5795	Ant13	18.09	30.00	Pass
802.11ax (40MHz)	5795	Ant11	18.27	30.00	Pass
802.11ax (80MHz)	5775	Ant13	17.74	30.00	Pass
802.11ax (80MHz)	5775	Ant11	18.07	30.00	Pass



U-NII-3 AVGSA Output Power - MIMO						
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	Ant13	14.87	18.20	30.00	Pass
802.11n (20MHz)	5745	Ant11	15.48			
802.11n (20MHz)	5785	Ant13	14.86	18.28	30.00	Pass
802.11n (20MHz)	5785	Ant11	15.65			
802.11n (20MHz)	5825	Ant13	14.97	18.31	30.00	Pass
802.11n (20MHz)	5825	Ant11	15.60			
802.11n (40MHz)	5755	Ant13	13.83	17.34	30.00	Pass
802.11n (40MHz)	5755	Ant11	14.77			
802.11n (40MHz)	5795	Ant13	13.92	17.34	30.00	Pass
802.11n (40MHz)	5795	Ant11	14.71			
802.11ac (20MHz)	5745	Ant13	14.06	17.58	30.00	Pass
802.11ac (20MHz)	5745	Ant11	15.03			
802.11ac (20MHz)	5785	Ant13	14.30	17.65	30.00	Pass
802.11ac (20MHz)	5785	Ant11	14.96			
802.11ac (20MHz)	5825	Ant13	14.44	17.93	30.00	Pass
802.11ac (20MHz)	5825	Ant11	15.36			
802.11ac (40MHz)	5755	Ant13	13.84	17.31	30.00	Pass
802.11ac (40MHz)	5755	Ant11	14.72			
802.11ac (40MHz)	5795	Ant13	13.94	17.41	30.00	Pass
802.11ac (40MHz)	5795	Ant11	14.82			
802.11ac (80MHz)	5775	Ant13	13.71	17.12	30.00	Pass
802.11ac (80MHz)	5775	Ant11	14.47			
802.11ax (20MHz)	5745	Ant13	14.43	17.77	30.00	Pass
802.11ax (20MHz)	5745	Ant11	15.06			
802.11ax (20MHz)	5785	Ant13	14.43	17.86	30.00	Pass
802.11ax (20MHz)	5785	Ant11	15.23			
802.11ax (20MHz)	5825	Ant13	14.70	18.01	30.00	Pass
802.11ax (20MHz)	5825	Ant11	15.28			
802.11ax (40MHz)	5755	Ant13	13.84	17.35	30.00	Pass
802.11ax (40MHz)	5755	Ant11	14.79			
802.11ax (40MHz)	5795	Ant13	13.91	17.33	30.00	Pass
802.11ax (40MHz)	5795	Ant11	14.70			



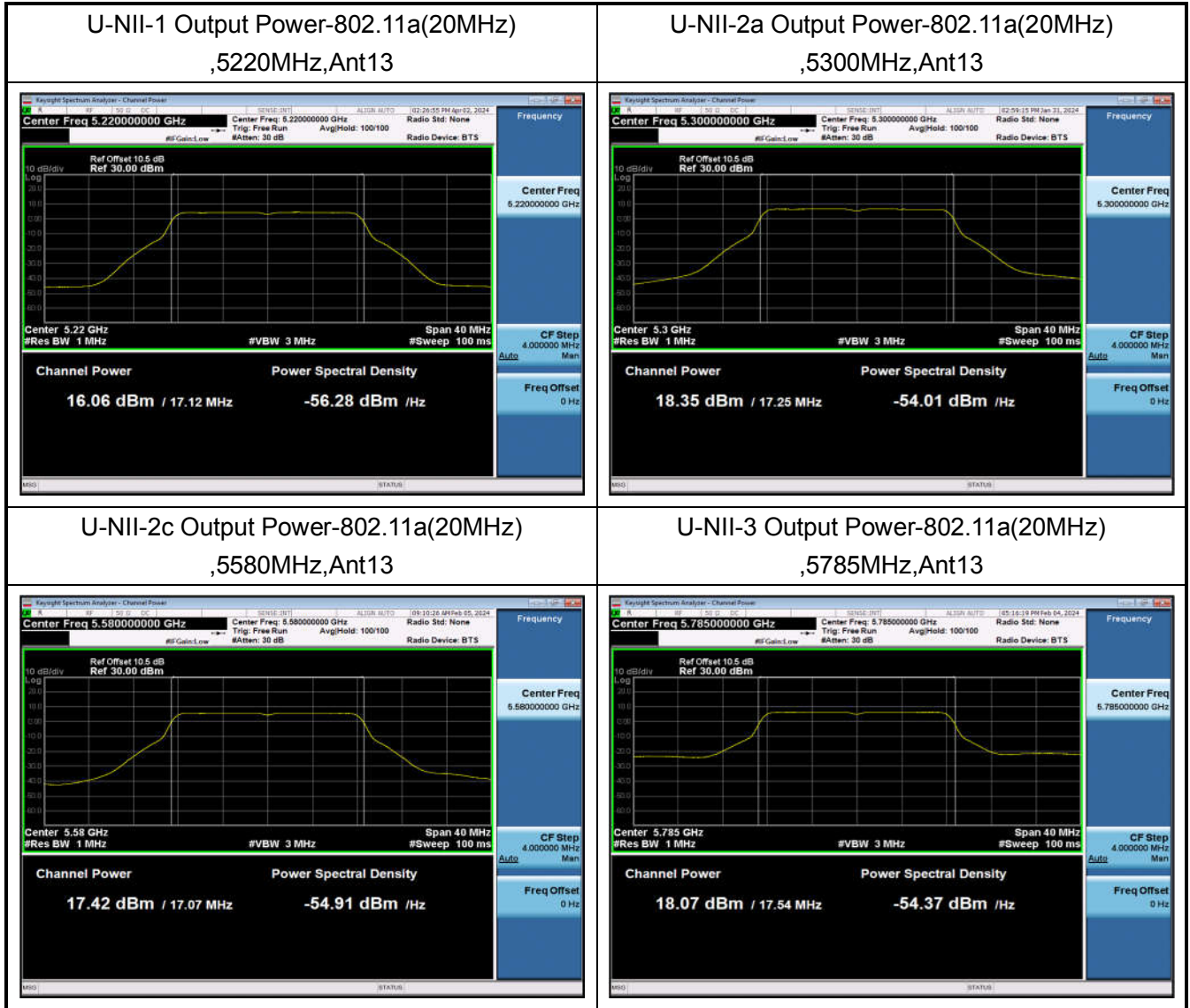
802.11ax (80MHz)	5775	Ant13	13.92	17.27	30.00	Pass
802.11ax (80MHz)	5775	Ant11	14.57			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total Power = $10 \cdot \log \{10^{(\text{Ant13 Power}/10)} + 10^{(\text{Ant11 Power}/10)}\}$.

Test plots



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



AVGSA Power Spectral Density Test Result and Data

U-NII-1 AVGSA Power Spectral Density - SISO					
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	Ant13	4.146	11	Pass
802.11n (20MHz)	5180	Ant11	5.142		
802.11n (20MHz)	5220	Ant13	3.440	11	Pass
802.11n (20MHz)	5220	Ant11	5.064		
802.11n (20MHz)	5240	Ant13	3.922	11	Pass
802.11n (20MHz)	5240	Ant11	5.306		
802.11n (40MHz)	5190	Ant13	0.680	11	Pass
802.11n (40MHz)	5190	Ant11	-0.192		
802.11n (40MHz)	5230	Ant13	0.578	11	Pass
802.11n (40MHz)	5230	Ant11	0.161		
802.11ac (20MHz)	5180	Ant13	3.973	11	Pass
802.11ac (20MHz)	5180	Ant11	5.056		
802.11ac (20MHz)	5220	Ant13	3.670	11	Pass
802.11ac (20MHz)	5220	Ant11	5.044		
802.11ac (20MHz)	5240	Ant13	3.703	11	Pass
802.11ac (20MHz)	5240	Ant11	5.352		
802.11ac (40MHz)	5190	Ant13	0.709	11	Pass
802.11ac (40MHz)	5190	Ant11	-0.197		
802.11ac (40MHz)	5230	Ant13	0.527	11	Pass
802.11ac (40MHz)	5230	Ant11	0.059		
802.11ac (80MHz)	5210	Ant13	-2.793	11	Pass
802.11ac (80MHz)	5210	Ant11	-3.488		
802.11a (20MHz)	5180	Ant13	4.653	11	Pass
802.11a (20MHz)	5180	Ant11	6.973		
802.11a (20MHz)	5220	Ant13	4.448	11	Pass
802.11a (20MHz)	5220	Ant11	6.948		
802.11a (20MHz)	5240	Ant13	4.408	11	Pass
802.11a (20MHz)	5240	Ant11	7.159		
802.11ax (20MHz)	5180	Ant13	3.759	11	Pass
802.11ax (20MHz)	5180	Ant11	4.827		
802.11ax (20MHz)	5220	Ant13	3.523	11	Pass
802.11ax (20MHz)	5220	Ant11	4.860		
802.11ax (20MHz)	5240	Ant13	3.570	11	Pass
802.11ax (20MHz)	5240	Ant11	5.115		
802.11ax (40MHz)	5190	Ant13	0.437	11	Pass



802.11ax (40MHz)	5190	Ant11	-0.398		
802.11ax (40MHz)	5230	Ant13	0.350	11	Pass
802.11ax (40MHz)	5230	Ant11	-0.155		
802.11ax (80MHz)	5210	Ant13	-2.773	11	Pass
802.11ax (80MHz)	5210	Ant11	-3.492		

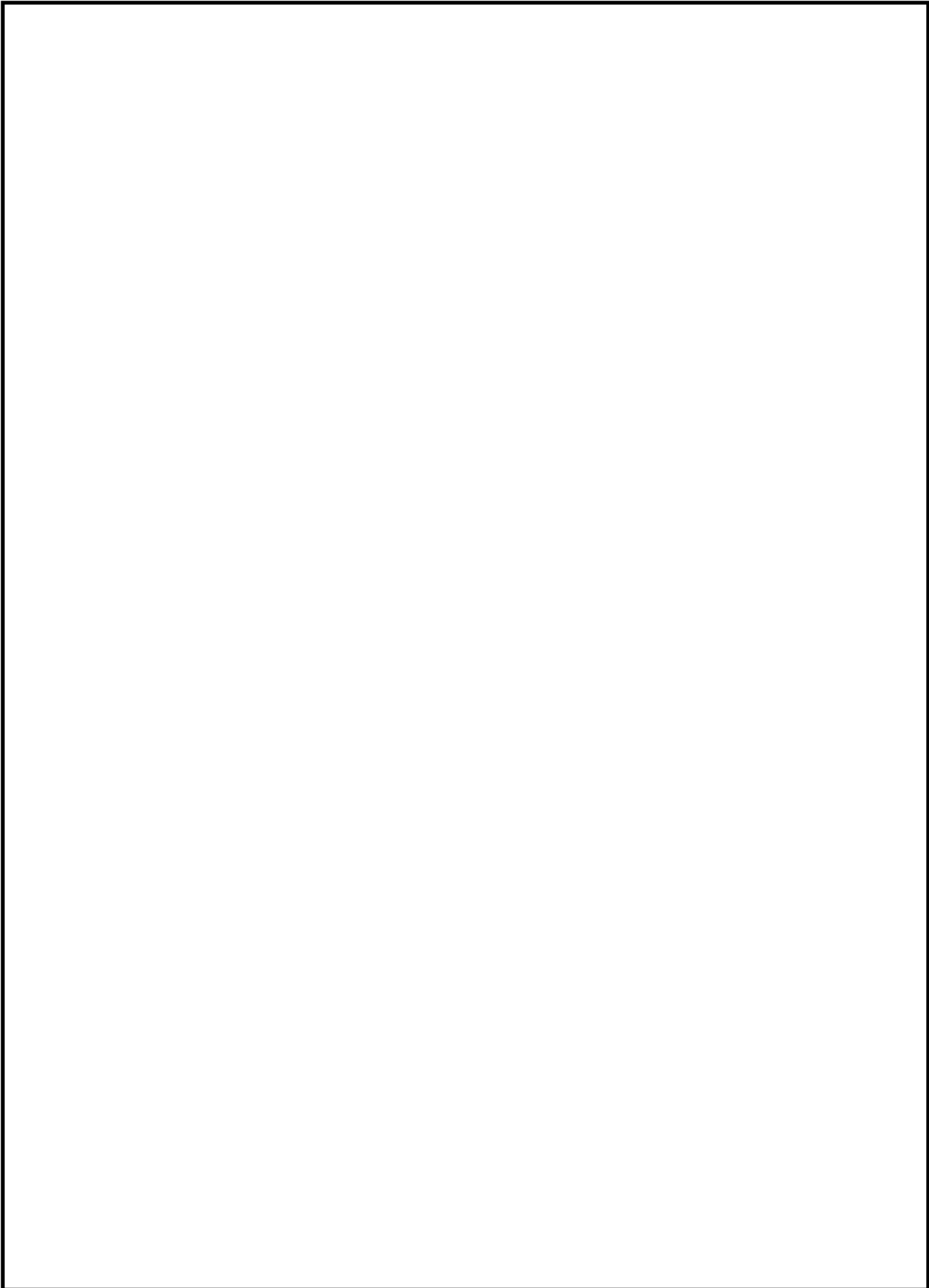


U-NII-1 AVGSA Power Spectral Density - MIMO						
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	Ant13	3.186	5.78	11	Pass
802.11n (20MHz)	5180	Ant11	2.300			
802.11n (20MHz)	5220	Ant13	3.020	5.68	11	Pass
802.11n (20MHz)	5220	Ant11	2.296			
802.11n (20MHz)	5240	Ant13	2.810	5.76	11	Pass
802.11n (20MHz)	5240	Ant11	2.694			
802.11n (40MHz)	5190	Ant13	-1.256	1.57	11	Pass
802.11n (40MHz)	5190	Ant11	-1.638			
802.11n (40MHz)	5230	Ant13	-1.396	1.60	11	Pass
802.11n (40MHz)	5230	Ant11	-1.422			
802.11ac (20MHz)	5180	Ant13	2.689	5.50	11	Pass
802.11ac (20MHz)	5180	Ant11	2.282			
802.11ac (20MHz)	5220	Ant13	2.352	5.30	11	Pass
802.11ac (20MHz)	5220	Ant11	2.235			
802.11ac (20MHz)	5240	Ant13	2.476	5.60	11	Pass
802.11ac (20MHz)	5240	Ant11	2.703			
802.11ac (40MHz)	5190	Ant13	-1.254	1.55	11	Pass
802.11ac (40MHz)	5190	Ant11	-1.675			
802.11ac (40MHz)	5230	Ant13	-1.371	1.61	11	Pass
802.11ac (40MHz)	5230	Ant11	-1.429			
802.11ac (80MHz)	5210	Ant13	-4.758	-1.82	11	Pass
802.11ac (80MHz)	5210	Ant11	-4.902			
802.11ax (20MHz)	5180	Ant13	2.822	5.44	11	Pass
802.11ax (20MHz)	5180	Ant11	2.008			
802.11ax (20MHz)	5220	Ant13	2.376	5.24	11	Pass
802.11ax (20MHz)	5220	Ant11	2.069			
802.11ax (20MHz)	5240	Ant13	2.328	5.43	11	Pass
802.11ax (20MHz)	5240	Ant11	2.511			
802.11ax (40MHz)	5190	Ant13	-1.484	1.36	11	Pass
802.11ax (40MHz)	5190	Ant11	-1.827			
802.11ax (40MHz)	5230	Ant13	-1.718	1.31	11	Pass
802.11ax (40MHz)	5230	Ant11	-1.680			
802.11ax (80MHz)	5210	Ant13	-4.682	-1.78	11	Pass
802.11ax (80MHz)	5210	Ant11	-4.898			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total PSD = $10 * \log \{ 10^{(Ant13 \text{ PSD}/10)} + 10^{(Ant11 \text{ PSD}/10)} \}$.





U-NII-2a AVGSA Power Spectral Density - SISO					
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5260	Ant13	5.821	11	Pass
802.11n (20MHz)	5260	Ant11	5.539		
802.11n (20MHz)	5300	Ant13	5.985	11	Pass
802.11n (20MHz)	5300	Ant11	5.639		
802.11n (20MHz)	5320	Ant13	6.079	11	Pass
802.11n (20MHz)	5320	Ant11	5.410		
802.11n (40MHz)	5270	Ant13	2.949	11	Pass
802.11n (40MHz)	5270	Ant11	2.679		
802.11n (40MHz)	5310	Ant13	3.171	11	Pass
802.11n (40MHz)	5310	Ant11	2.604		
802.11ac (20MHz)	5260	Ant13	5.774	11	Pass
802.11ac (20MHz)	5260	Ant11	5.530		
802.11ac (20MHz)	5300	Ant13	5.999	11	Pass
802.11ac (20MHz)	5300	Ant11	5.613		
802.11ac (20MHz)	5320	Ant13	6.036	11	Pass
802.11ac (20MHz)	5320	Ant11	5.372		
802.11ac (40MHz)	5270	Ant13	2.946	11	Pass
802.11ac (40MHz)	5270	Ant11	2.718		
802.11ac (40MHz)	5310	Ant13	3.143	11	Pass
802.11ac (40MHz)	5310	Ant11	2.571		
802.11ac (80MHz)	5290	Ant13	-0.379	11	Pass
802.11ac (80MHz)	5290	Ant11	-0.743		
802.11ac (160MHz)	5250	Ant13	-2.176	11	Pass
802.11ac (160MHz)	5250	Ant11	-2.476		
802.11a (20MHz)	5260	Ant13	6.618	11	Pass
802.11a (20MHz)	5260	Ant11	7.195		
802.11a (20MHz)	5300	Ant13	6.791	11	Pass
802.11a (20MHz)	5300	Ant11	6.846		
802.11a (20MHz)	5320	Ant13	6.943	11	Pass
802.11a (20MHz)	5320	Ant11	6.688		
802.11ax (160MHz)	5250	Ant13	-1.945	11	Pass
802.11ax (160MHz)	5250	Ant11	-2.246		
802.11ax (20MHz)	5260	Ant13	5.551	11	Pass
802.11ax (20MHz)	5260	Ant11	5.304		
802.11ax (20MHz)	5300	Ant13	5.762	11	Pass
802.11ax (20MHz)	5300	Ant11	5.422		
802.11ax (20MHz)	5320	Ant13	5.850	11	Pass



802.11ax (20MHz)	5320	Ant11	5.123		
802.11ax (40MHz)	5270	Ant13	2.663	11	Pass
802.11ax (40MHz)	5270	Ant11	2.458		
802.11ax (40MHz)	5310	Ant13	2.950	11	Pass
802.11ax (40MHz)	5310	Ant11	2.391		
802.11ax (80MHz)	5290	Ant13	-0.443	11	Pass
802.11ax (80MHz)	5290	Ant11	-0.801		



U-NII-2a AVGSA Power Spectral Density - MIMO						
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5260	Ant13	1.786	4.79	11	Pass
802.11n (20MHz)	5260	Ant11	1.778			
802.11n (20MHz)	5300	Ant13	1.899	4.97	11	Pass
802.11n (20MHz)	5300	Ant11	2.011			
802.11n (20MHz)	5320	Ant13	2.034	4.94	11	Pass
802.11n (20MHz)	5320	Ant11	1.819			
802.11n (40MHz)	5270	Ant13	-2.205	0.92	11	Pass
802.11n (40MHz)	5270	Ant11	-1.972			
802.11n (40MHz)	5310	Ant13	-1.946	1.01	11	Pass
802.11n (40MHz)	5310	Ant11	-2.054			
802.11ac (20MHz)	5260	Ant13	1.725	4.77	11	Pass
802.11ac (20MHz)	5260	Ant11	1.802			
802.11ac (20MHz)	5300	Ant13	1.951	5.01	11	Pass
802.11ac (20MHz)	5300	Ant11	2.041			
802.11ac (20MHz)	5320	Ant13	2.083	4.95	11	Pass
802.11ac (20MHz)	5320	Ant11	1.789			
802.11ac (40MHz)	5270	Ant13	-2.365	0.80	11	Pass
802.11ac (40MHz)	5270	Ant11	-2.065			
802.11ac (40MHz)	5310	Ant13	-2.044	0.99	11	Pass
802.11ac (40MHz)	5310	Ant11	-2.004			
802.11ac (80MHz)	5290	Ant13	-5.396	-2.39	11	Pass
802.11ac (80MHz)	5290	Ant11	-5.403			
802.11ac (160MHz)	5250	Ant13	-7.324	-4.24	11	Pass
802.11ac (160MHz)	5250	Ant11	-7.180			
802.11ax (160MHz)	5250	Ant13	-7.000	-3.95	11	Pass
802.11ax (160MHz)	5250	Ant11	-6.924			
802.11ax (20MHz)	5260	Ant13	1.645	4.64	11	Pass
802.11ax (20MHz)	5260	Ant11	1.612			
802.11ax (20MHz)	5300	Ant13	1.813	4.83	11	Pass
802.11ax (20MHz)	5300	Ant11	1.819			
802.11ax (20MHz)	5320	Ant13	1.890	4.78	11	Pass
802.11ax (20MHz)	5320	Ant11	1.650			
802.11ax (40MHz)	5270	Ant13	-2.619	0.57	11	Pass
802.11ax (40MHz)	5270	Ant11	-2.266			
802.11ax (40MHz)	5310	Ant13	-2.251	0.78	11	Pass
802.11ax (40MHz)	5310	Ant11	-2.216			
802.11ax (80MHz)	5290	Ant13	-5.389	-2.40	11	Pass



802.11ax (80MHz)	5290	Ant11	-5.431			
Note: 1) Ant13 and Ant11 is 2*2MIMO. 2) Total PSD = $10 \cdot \log \{10^{(\text{Ant13 PSD}/10)} + 10^{(\text{Ant11 PSD}/10)}\}$.						



U-NII-2c AVGSA Power Spectral Density - SISO					
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5500	Ant13	5.610	11	Pass
802.11n (20MHz)	5500	Ant11	5.216		
802.11n (20MHz)	5580	Ant13	5.517	11	Pass
802.11n (20MHz)	5580	Ant11	5.395		
802.11n (20MHz)	5700	Ant13	5.408	11	Pass
802.11n (20MHz)	5700	Ant11	5.368		
802.11n (40MHz)	5510	Ant13	3.010	11	Pass
802.11n (40MHz)	5510	Ant11	2.137		
802.11n (40MHz)	5550	Ant13	3.015	11	Pass
802.11n (40MHz)	5550	Ant11	2.360		
802.11n (40MHz)	5670	Ant13	2.561	11	Pass
802.11n (40MHz)	5670	Ant11	2.552		
802.11ac (20MHz)	5500	Ant13	5.609	11	Pass
802.11ac (20MHz)	5500	Ant11	5.122		
802.11ac (20MHz)	5580	Ant13	5.503	11	Pass
802.11ac (20MHz)	5580	Ant11	5.436		
802.11ac (20MHz)	5700	Ant13	5.347	11	Pass
802.11ac (20MHz)	5700	Ant11	5.142		
802.11ac (40MHz)	5510	Ant13	2.967	11	Pass
802.11ac (40MHz)	5510	Ant11	2.158		
802.11ac (40MHz)	5550	Ant13	2.996	11	Pass
802.11ac (40MHz)	5550	Ant11	2.339		
802.11ac (40MHz)	5670	Ant13	2.581	11	Pass
802.11ac (40MHz)	5670	Ant11	2.579		
802.11ac (80MHz)	5530	Ant13	-0.270	11	Pass
802.11ac (80MHz)	5530	Ant11	-1.223		
802.11ac (160MHz)	5570	Ant13	-2.345	11	Pass
802.11ac (160MHz)	5570	Ant11	-2.773		
802.11a (20MHz)	5500	Ant13	6.497	11	Pass
802.11a (20MHz)	5500	Ant11	6.959		
802.11a (20MHz)	5580	Ant13	5.699	11	Pass
802.11a (20MHz)	5580	Ant11	7.067		
802.11a (20MHz)	5700	Ant13	5.470	11	Pass
802.11a (20MHz)	5700	Ant11	7.273		
802.11ax (160MHz)	5570	Ant13	-2.091	11	Pass
802.11ax (160MHz)	5570	Ant11	-2.442		
802.11ax (20MHz)	5500	Ant13	5.388	11	Pass



802.11ax (20MHz)	5500	Ant11	4.979		
802.11ax (20MHz)	5580	Ant13	5.317	11	Pass
802.11ax (20MHz)	5580	Ant11	5.190		
802.11ax (20MHz)	5700	Ant13	5.072	11	Pass
802.11ax (20MHz)	5700	Ant11	5.076		
802.11ax (40MHz)	5510	Ant13	2.774	11	Pass
802.11ax (40MHz)	5510	Ant11	1.897		
802.11ax (40MHz)	5550	Ant13	2.687	11	Pass
802.11ax (40MHz)	5550	Ant11	2.054		
802.11ax (40MHz)	5670	Ant13	2.378	11	Pass
802.11ax (40MHz)	5670	Ant11	2.393		
802.11ax (80MHz)	5530	Ant13	-0.245	11	Pass
802.11ax (80MHz)	5530	Ant11	-1.223		



U-NII-2c AVGSA Power Spectral Density - MIMO						
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5500	Ant13	2.674	5.68	11	Pass
802.11n (20MHz)	5500	Ant11	2.662			
802.11n (20MHz)	5580	Ant13	2.578	5.81	11	Pass
802.11n (20MHz)	5580	Ant11	3.007			
802.11n (20MHz)	5700	Ant13	2.472	5.68	11	Pass
802.11n (20MHz)	5700	Ant11	2.854			
802.11n (40MHz)	5510	Ant13	-1.083	1.83	11	Pass
802.11n (40MHz)	5510	Ant11	-1.278			
802.11n (40MHz)	5550	Ant13	-1.022	1.95	11	Pass
802.11n (40MHz)	5550	Ant11	-1.109			
802.11n (40MHz)	5670	Ant13	-1.459	1.88	11	Pass
802.11n (40MHz)	5670	Ant11	-0.818			
802.11ac (20MHz)	5500	Ant13	2.691	5.64	11	Pass
802.11ac (20MHz)	5500	Ant11	2.559			
802.11ac (20MHz)	5580	Ant13	2.558	5.77	11	Pass
802.11ac (20MHz)	5580	Ant11	2.953			
802.11ac (20MHz)	5700	Ant13	2.341	5.59	11	Pass
802.11ac (20MHz)	5700	Ant11	2.814			
802.11ac (40MHz)	5510	Ant13	-1.113	1.81	11	Pass
802.11ac (40MHz)	5510	Ant11	-1.285			
802.11ac (40MHz)	5550	Ant13	-1.079	1.88	11	Pass
802.11ac (40MHz)	5550	Ant11	-1.180			
802.11ac (40MHz)	5670	Ant13	-1.589	1.80	11	Pass
802.11ac (40MHz)	5670	Ant11	-0.859			
802.11ac (80MHz)	5530	Ant13	-4.283	-1.46	11	Pass
802.11ac (80MHz)	5530	Ant11	-4.660			
802.11ac (160MHz)	5570	Ant13	-6.548	-3.43	11	Pass
802.11ac (160MHz)	5570	Ant11	-6.330			
802.11ax (160MHz)	5570	Ant13	-6.125	-3.10	11	Pass
802.11ax (160MHz)	5570	Ant11	-6.092			
802.11ax (20MHz)	5500	Ant13	2.431	5.43	11	Pass
802.11ax (20MHz)	5500	Ant11	2.416			
802.11ax (20MHz)	5580	Ant13	2.359	5.63	11	Pass
802.11ax (20MHz)	5580	Ant11	2.864			
802.11ax (20MHz)	5700	Ant13	2.158	5.43	11	Pass
802.11ax (20MHz)	5700	Ant11	2.663			
802.11ax (40MHz)	5510	Ant13	-1.325	1.65	11	Pass



802.11ax (40MHz)	5510	Ant11	-1.405			
802.11ax (40MHz)	5550	Ant13	-1.325	1.65	11	Pass
802.11ax (40MHz)	5550	Ant11	-1.405			
802.11ax (40MHz)	5670	Ant13	-1.589	1.69	11	Pass
802.11ax (40MHz)	5670	Ant11	-1.073			
802.11ax (80MHz)	5530	Ant13	-4.159	-1.36	11	Pass
802.11ax (80MHz)	5530	Ant11	-4.588			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

2) Total PSD = $10 \cdot \log \{10^{(\text{Ant13 PSD}/10)} + 10^{(\text{Ant11 PSD}/10)}\}$.



U-NII-3 AVGSA Power Spectral Density - SISO					
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	Ant13	5.549	30	Pass
802.11n (20MHz)	5745	Ant11	5.806		
802.11n (20MHz)	5785	Ant13	5.416	30	Pass
802.11n (20MHz)	5785	Ant11	5.799		
802.11n (20MHz)	5825	Ant13	5.431	30	Pass
802.11n (20MHz)	5825	Ant11	6.053		
802.11n (40MHz)	5755	Ant13	2.943	30	Pass
802.11n (40MHz)	5755	Ant11	2.945		
802.11n (40MHz)	5795	Ant13	3.025	30	Pass
802.11n (40MHz)	5795	Ant11	2.986		
802.11ac (20MHz)	5745	Ant13	5.528	30	Pass
802.11ac (20MHz)	5745	Ant11	5.704		
802.11ac (20MHz)	5785	Ant13	5.456	30	Pass
802.11ac (20MHz)	5785	Ant11	5.789		
802.11ac (20MHz)	5825	Ant13	5.430	30	Pass
802.11ac (20MHz)	5825	Ant11	6.007		
802.11ac (40MHz)	5755	Ant13	2.932	30	Pass
802.11ac (40MHz)	5755	Ant11	2.846		
802.11ac (40MHz)	5795	Ant13	2.957	30	Pass
802.11ac (40MHz)	5795	Ant11	2.989		
802.11ac (80MHz)	5775	Ant13	-0.502	30	Pass
802.11ac (80MHz)	5775	Ant11	-0.463		
802.11a (20MHz)	5745	Ant13	3.427	30	Pass
802.11a (20MHz)	5745	Ant11	4.081		
802.11a (20MHz)	5785	Ant13	3.488	30	Pass
802.11a (20MHz)	5785	Ant11	3.998		
802.11a (20MHz)	5825	Ant13	3.859	30	Pass
802.11a (20MHz)	5825	Ant11	4.157		
802.11ax (20MHz)	5745	Ant13	5.248	30	Pass
802.11ax (20MHz)	5745	Ant11	5.434		
802.11ax (20MHz)	5785	Ant13	5.243	30	Pass
802.11ax (20MHz)	5785	Ant11	5.560		
802.11ax (20MHz)	5825	Ant13	5.187	30	Pass
802.11ax (20MHz)	5825	Ant11	5.754		
802.11ax (40MHz)	5755	Ant13	2.698	30	Pass
802.11ax (40MHz)	5755	Ant11	2.595		
802.11ax (40MHz)	5795	Ant13	2.745	30	Pass



802.11ax (40MHz)	5795	Ant11	2.683		
802.11ax (80MHz)	5775	Ant13	-0.650	30	Pass
802.11ax (80MHz)	5775	Ant11	-0.654		



U-NII-3 AVGSA Power Spectral Density - MIMO						
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	Ant13	2.774	6.05	30	Pass
802.11n (20MHz)	5745	Ant11	3.292			
802.11n (20MHz)	5785	Ant13	2.739	6.08	30	Pass
802.11n (20MHz)	5785	Ant11	3.373			
802.11n (20MHz)	5825	Ant13	2.620	6.11	30	Pass
802.11n (20MHz)	5825	Ant11	3.525			
802.11n (40MHz)	5755	Ant13	-1.159	2.95	30	Pass
802.11n (40MHz)	5755	Ant11	0.814			
802.11n (40MHz)	5795	Ant13	-1.117	2.07	30	Pass
802.11n (40MHz)	5795	Ant11	-0.762			
802.11ac (20MHz)	5745	Ant13	2.888	6.07	30	Pass
802.11ac (20MHz)	5745	Ant11	3.228			
802.11ac (20MHz)	5785	Ant13	2.742	6.08	30	Pass
802.11ac (20MHz)	5785	Ant11	3.371			
802.11ac (20MHz)	5825	Ant13	2.558	6.09	30	Pass
802.11ac (20MHz)	5825	Ant11	3.542			
802.11ac (40MHz)	5755	Ant13	-1.168	2.02	30	Pass
802.11ac (40MHz)	5755	Ant11	-0.829			
802.11ac (40MHz)	5795	Ant13	-1.093	2.10	30	Pass
802.11ac (40MHz)	5795	Ant11	-0.726			
802.11ac (80MHz)	5775	Ant13	-4.473	-1.24	30	Pass
802.11ac (80MHz)	5775	Ant11	-4.042			
802.11ax (20MHz)	5745	Ant13	2.530	5.82	30	Pass
802.11ax (20MHz)	5745	Ant11	3.078			
802.11ax (20MHz)	5785	Ant13	2.520	5.90	30	Pass
802.11ax (20MHz)	5785	Ant11	3.232			
802.11ax (20MHz)	5825	Ant13	2.294	5.86	30	Pass
802.11ax (20MHz)	5825	Ant11	3.350			
802.11ax (40MHz)	5755	Ant13	-1.394	1.73	30	Pass
802.11ax (40MHz)	5755	Ant11	-1.165			
802.11ax (40MHz)	5795	Ant13	-1.318	1.86	30	Pass
802.11ax (40MHz)	5795	Ant11	-0.994			
802.11ax (80MHz)	5775	Ant13	-4.437	-1.24	30	Pass
802.11ax (80MHz)	5775	Ant11	-4.074			

Note:

1) Ant13 and Ant11 is 2*2MIMO.

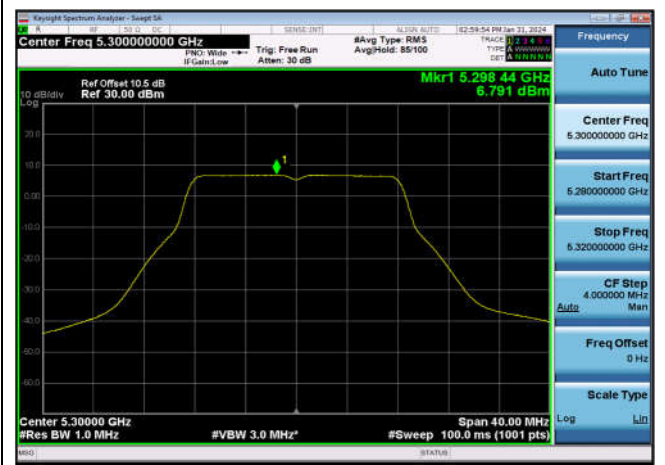
2) Total PSD = $10 \cdot \log \{10^{(\text{Ant13 PSD}/10)} + 10^{(\text{Ant11 PSD}/10)}\}$.

Test Plots

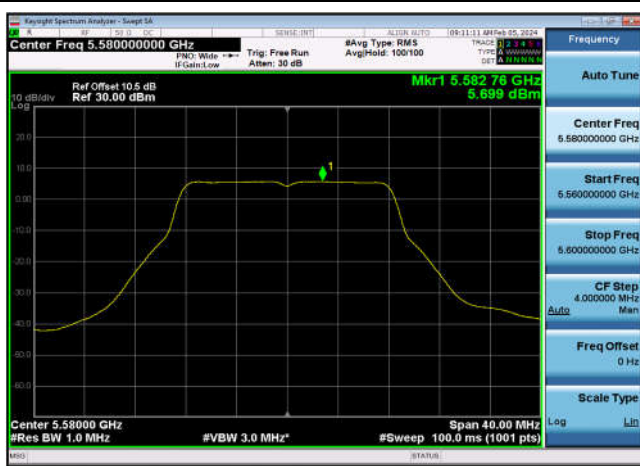
U-NII-1 Power spectral density-802.11
n(20MHz),5220MHz,Ant13



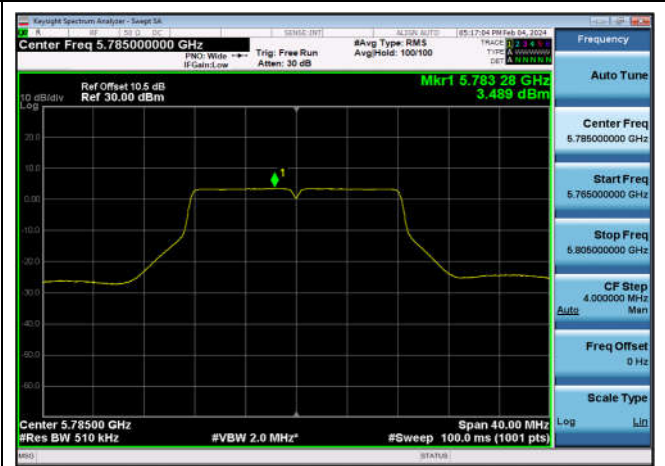
U-NII-2a Power spectral density-802.1
1a(20MHz),5300MHz,Ant13



U-NII-2c Power spectral density-802.1
1a(20MHz),5580MHz,Ant13



U-NII-3 Power spectral density-802.11
a(20MHz),5785MHz,Ant13



Note: Only 802.11a mode mid 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

U-NII-1 99% OBW & 26dB EBW					
Mode	Test Frequency (MHz)	Ant	99% OBW (MHz)	26dB EBW (MHz)	Result
802.11n (20MHz)	5180	Ant13	18.062	22.87	Pass
802.11n (20MHz)	5180	Ant11	18.121	23.74	Pass
802.11n (20MHz)	5220	Ant13	18.175	23.29	Pass
802.11n (20MHz)	5220	Ant11	18.138	23.40	Pass
802.11n (20MHz)	5240	Ant13	18.074	23.06	Pass
802.11n (20MHz)	5240	Ant11	18.146	23.23	Pass
802.11n (40MHz)	5190	Ant13	36.551	43.45	Pass
802.11n (40MHz)	5190	Ant11	36.597	44.10	Pass
802.11n (40MHz)	5230	Ant13	36.660	44.66	Pass
802.11n (40MHz)	5230	Ant11	36.599	45.54	Pass
802.11ac (20MHz)	5180	Ant13	18.092	23.59	Pass
802.11ac (20MHz)	5180	Ant11	18.141	23.24	Pass
802.11ac (20MHz)	5220	Ant13	18.114	23.24	Pass
802.11ac (20MHz)	5220	Ant11	18.101	24.10	Pass
802.11ac (20MHz)	5240	Ant13	18.084	23.17	Pass
802.11ac (20MHz)	5240	Ant11	18.120	23.22	Pass
802.11ac (40MHz)	5190	Ant13	36.620	45.27	Pass
802.11ac (40MHz)	5190	Ant11	36.591	44.06	Pass
802.11ac (40MHz)	5230	Ant13	36.668	44.20	Pass
802.11ac (40MHz)	5230	Ant11	36.539	44.85	Pass
802.11ac (80MHz)	5210	Ant13	76.298	89.38	Pass
802.11ac (80MHz)	5210	Ant11	76.394	89.77	Pass
802.11a (20MHz)	5180	Ant13	17.036	23.07	Pass
802.11a (20MHz)	5180	Ant11	17.036	23.01	Pass
802.11a (20MHz)	5220	Ant13	17.121	23.54	Pass
802.11a (20MHz)	5220	Ant11	17.196	22.88	Pass
802.11a (20MHz)	5240	Ant13	17.058	23.05	Pass
802.11a (20MHz)	5240	Ant11	17.095	22.65	Pass
802.11ax (20MHz)	5180	Ant13	19.132	22.63	Pass
802.11ax (20MHz)	5180	Ant11	19.141	22.63	Pass



802.11ax (20MHz)	5220	Ant13	19.156	22.95	Pass
802.11ax (20MHz)	5220	Ant11	19.083	22.49	Pass
802.11ax (20MHz)	5240	Ant13	19.119	22.79	Pass
802.11ax (20MHz)	5240	Ant11	19.203	23.16	Pass
802.11ax (40MHz)	5190	Ant13	37.981	43.13	Pass
802.11ax (40MHz)	5190	Ant11	37.974	42.71	Pass
802.11ax (40MHz)	5230	Ant13	37.972	42.66	Pass
802.11ax (40MHz)	5230	Ant11	37.999	42.42	Pass
802.11ax (80MHz)	5210	Ant13	77.825	88.22	Pass
802.11ax (80MHz)	5210	Ant11	77.769	88.27	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-2a 99% OBW & 26dB EBW					
Mode	Test Frequency (MHz)	Ant	99% OBW (MHz)	26dB EBW (MHz)	Result
802.11n (20MHz)	5260	Ant13	18.073	23.12	Pass
802.11n (20MHz)	5260	Ant11	18.115	23.30	Pass
802.11n (20MHz)	5300	Ant13	18.138	23.85	Pass
802.11n (20MHz)	5300	Ant11	18.141	23.62	Pass
802.11n (20MHz)	5320	Ant13	18.133	23.47	Pass
802.11n (20MHz)	5320	Ant11	18.054	23.35	Pass
802.11n (40MHz)	5270	Ant13	36.565	44.01	Pass
802.11n (40MHz)	5270	Ant11	36.668	44.51	Pass
802.11n (40MHz)	5310	Ant13	36.616	44.34	Pass
802.11n (40MHz)	5310	Ant11	36.525	44.63	Pass
802.11ac (20MHz)	5260	Ant13	18.098	23.30	Pass
802.11ac (20MHz)	5260	Ant11	18.169	23.57	Pass
802.11ac (20MHz)	5300	Ant13	18.147	23.58	Pass
802.11ac (20MHz)	5300	Ant11	18.133	23.59	Pass
802.11ac (20MHz)	5320	Ant13	18.102	23.34	Pass
802.11ac (20MHz)	5320	Ant11	18.162	23.76	Pass
802.11ac (40MHz)	5270	Ant13	36.711	44.66	Pass
802.11ac (40MHz)	5270	Ant11	36.658	44.95	Pass
802.11ac (40MHz)	5310	Ant13	36.580	44.43	Pass
802.11ac (40MHz)	5310	Ant11	36.627	44.32	Pass
802.11ac (80MHz)	5290	Ant13	76.496	90.75	Pass
802.11ac (80MHz)	5290	Ant11	76.415	92.09	Pass
802.11ac (160MHz)	5250	Ant13	155.095	171.0	Pass
802.11ac (160MHz)	5250	Ant11	154.897	169.9	Pass
802.11a (20MHz)	5260	Ant13	17.262	22.89	Pass
802.11a (20MHz)	5260	Ant11	17.147	23.22	Pass
802.11a (20MHz)	5300	Ant13	17.248	22.53	Pass
802.11a (20MHz)	5300	Ant11	17.093	22.92	Pass
802.11a (20MHz)	5320	Ant13	17.109	23.24	Pass
802.11a (20MHz)	5320	Ant11	17.149	22.68	Pass
802.11ax (160MHz)	5250	Ant13	156.248	169.3	Pass
802.11ax (160MHz)	5250	Ant11	156.345	169.0	Pass



802.11ax (20MHz)	5260	Ant13	19.181	23.27	Pass
802.11ax (20MHz)	5260	Ant11	19.139	22.60	Pass
802.11ax (20MHz)	5300	Ant13	19.131	22.70	Pass
802.11ax (20MHz)	5300	Ant11	19.107	22.70	Pass
802.11ax (20MHz)	5320	Ant13	19.065	22.90	Pass
802.11ax (20MHz)	5320	Ant11	19.140	22.92	Pass
802.11ax (40MHz)	5270	Ant13	37.976	42.65	Pass
802.11ax (40MHz)	5270	Ant11	38.061	42.73	Pass
802.11ax (40MHz)	5310	Ant13	37.963	42.67	Pass
802.11ax (40MHz)	5310	Ant11	37.950	43.54	Pass
802.11ax (80MHz)	5290	Ant13	77.763	86.98	Pass
802.11ax (80MHz)	5290	Ant11	77.747	87.79	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-2c 99% OBW & 26dB EBW					
Mode	Test Frequency (MHz)	Ant	99% OBW (MHz)	26dB EBW (MHz)	Result
802.11n (20MHz)	5500	Ant13	18.153	23.13	Pass
802.11n (20MHz)	5500	Ant11	18.115	23.26	Pass
802.11n (20MHz)	5580	Ant13	18.156	23.74	Pass
802.11n (20MHz)	5580	Ant11	18.114	23.82	Pass
802.11n (20MHz)	5700	Ant13	18.064	23.24	Pass
802.11n (20MHz)	5700	Ant11	18.170	23.76	Pass
802.11n (40MHz)	5510	Ant13	36.513	45.05	Pass
802.11n (40MHz)	5510	Ant11	36.610	43.81	Pass
802.11n (40MHz)	5550	Ant13	36.567	44.64	Pass
802.11n (40MHz)	5550	Ant11	36.592	43.98	Pass
802.11n (40MHz)	5670	Ant13	36.451	44.69	Pass
802.11n (40MHz)	5670	Ant11	36.566	44.42	Pass
802.11ac (20MHz)	5500	Ant13	18.118	23.38	Pass
802.11ac (20MHz)	5500	Ant11	18.096	23.26	Pass
802.11ac (20MHz)	5580	Ant13	18.147	23.58	Pass
802.11ac (20MHz)	5580	Ant11	18.063	23.24	Pass
802.11ac (20MHz)	5700	Ant13	18.158	23.75	Pass
802.11ac (20MHz)	5700	Ant11	18.089	23.19	Pass
802.11ac (40MHz)	5510	Ant13	36.510	44.11	Pass
802.11ac (40MHz)	5510	Ant11	36.524	44.05	Pass
802.11ac (40MHz)	5550	Ant13	36.580	44.64	Pass
802.11ac (40MHz)	5550	Ant11	36.573	44.91	Pass
802.11ac (40MHz)	5670	Ant13	36.682	44.20	Pass
802.11ac (40MHz)	5670	Ant11	36.622	45.13	Pass
802.11ac (80MHz)	5530	Ant13	76.284	91.25	Pass
802.11ac (80MHz)	5530	Ant11	76.432	91.97	Pass
802.11ac (160MHz)	5570	Ant13	155.233	170.3	Pass
802.11ac (160MHz)	5570	Ant11	154.614	171.9	Pass
802.11a (20MHz)	5500	Ant13	17.148	22.42	Pass
802.11a (20MHz)	5500	Ant11	17.130	23.18	Pass
802.11a (20MHz)	5580	Ant13	17.068	22.99	Pass
802.11a (20MHz)	5580	Ant11	17.093	22.11	Pass



802.11a (20MHz)	5700	Ant13	17.026	23.21	Pass
802.11a (20MHz)	5700	Ant11	17.079	22.55	Pass
802.11ax (160MHz)	5570	Ant13	156.354	169.0	Pass
802.11ax (160MHz)	5570	Ant11	156.271	167.9	Pass
802.11ax (20MHz)	5500	Ant13	19.147	22.87	Pass
802.11ax (20MHz)	5500	Ant11	19.136	22.73	Pass
802.11ax (20MHz)	5580	Ant13	19.107	22.60	Pass
802.11ax (20MHz)	5580	Ant11	19.135	23.09	Pass
802.11ax (20MHz)	5700	Ant13	19.142	22.81	Pass
802.11ax (20MHz)	5700	Ant11	19.141	22.91	Pass
802.11ax (40MHz)	5510	Ant13	37.941	43.13	Pass
802.11ax (40MHz)	5510	Ant11	38.049	43.32	Pass
802.11ax (40MHz)	5550	Ant13	37.856	42.82	Pass
802.11ax (40MHz)	5550	Ant11	37.955	43.10	Pass
802.11ax (40MHz)	5670	Ant13	38.009	42.61	Pass
802.11ax (40MHz)	5670	Ant11	37.877	42.64	Pass
802.11ax (80MHz)	5530	Ant13	77.863	87.80	Pass
802.11ax (80MHz)	5530	Ant11	77.704	86.95	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-3 99% OBW & 26dB EBW					
Mode	Test Frequency (MHz)	Ant	99% OBW (MHz)	26dB EBW (MHz)	Result
802.11n (20MHz)	5745	Ant13	18.081	23.31	Pass
802.11n (20MHz)	5745	Ant11	18.108	23.35	Pass
802.11n (20MHz)	5785	Ant13	18.083	23.13	Pass
802.11n (20MHz)	5785	Ant11	18.043	23.38	Pass
802.11n (20MHz)	5825	Ant13	18.165	23.38	Pass
802.11n (20MHz)	5825	Ant11	18.105	23.06	Pass
802.11n (40MHz)	5755	Ant13	36.562	44.13	Pass
802.11n (40MHz)	5755	Ant11	36.586	44.96	Pass
802.11n (40MHz)	5795	Ant13	36.520	44.47	Pass
802.11n (40MHz)	5795	Ant11	36.618	44.66	Pass
802.11ac (20MHz)	5745	Ant13	18.209	22.59	Pass
802.11ac (20MHz)	5745	Ant11	18.137	23.58	Pass
802.11ac (20MHz)	5785	Ant13	18.132	23.28	Pass
802.11ac (20MHz)	5785	Ant11	18.108	23.54	Pass
802.11ac (20MHz)	5825	Ant13	18.108	23.42	Pass
802.11ac (20MHz)	5825	Ant11	18.127	23.33	Pass
802.11ac (40MHz)	5755	Ant13	36.471	44.47	Pass
802.11ac (40MHz)	5755	Ant11	36.631	45.15	Pass
802.11ac (40MHz)	5795	Ant13	36.558	44.48	Pass
802.11ac (40MHz)	5795	Ant11	36.597	44.32	Pass
802.11ac (80MHz)	5775	Ant13	76.407	89.65	Pass
802.11ac (80MHz)	5775	Ant11	76.445	90.85	Pass
802.11a (20MHz)	5745	Ant13	17.791	30.08	Pass
802.11a (20MHz)	5745	Ant11	17.094	23.24	Pass
802.11a (20MHz)	5785	Ant13	17.542	30.02	Pass
802.11a (20MHz)	5785	Ant11	17.156	22.48	Pass
802.11a (20MHz)	5825	Ant13	17.415	23.46	Pass
802.11a (20MHz)	5825	Ant11	17.147	22.60	Pass
802.11ax (20MHz)	5745	Ant13	19.183	22.65	Pass
802.11ax (20MHz)	5745	Ant11	19.118	22.49	Pass
802.11ax (20MHz)	5785	Ant13	19.152	23.69	Pass
802.11ax (20MHz)	5785	Ant11	19.211	22.89	Pass



802.11ax (20MHz)	5825	Ant13	19.094	22.48	Pass
802.11ax (20MHz)	5825	Ant11	19.112	22.53	Pass
802.11ax (40MHz)	5755	Ant13	37.986	43.37	Pass
802.11ax (40MHz)	5755	Ant11	38.029	43.13	Pass
802.11ax (40MHz)	5795	Ant13	38.012	42.07	Pass
802.11ax (40MHz)	5795	Ant11	37.985	41.85	Pass
802.11ax (80MHz)	5775	Ant13	77.797	92.65	Pass
802.11ax (80MHz)	5775	Ant11	77.827	87.83	Pass

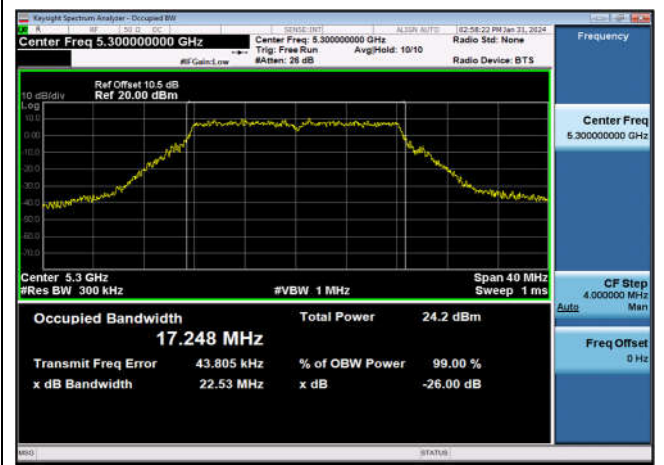
Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.

Test Plots

U-NII-1 99%&26dB Bandwidth-802.11n(20MHz)
,5220MHz,Ant13



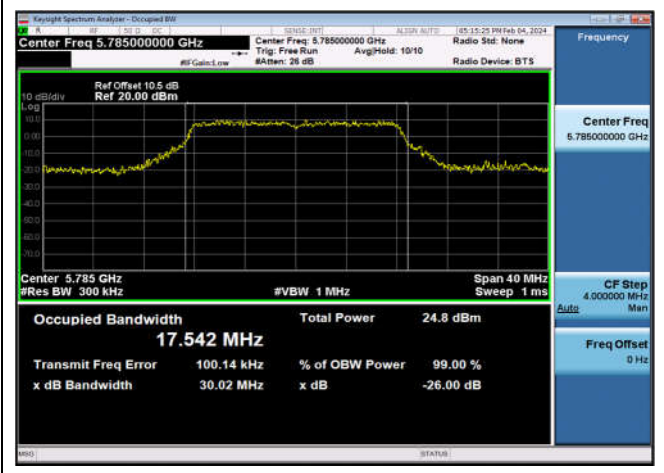
U-NII-2a 99%&26dB Bandwidth-802.11a(20MHz)
,5300MHz,Ant13



U-NII-2c 99%&26dB Bandwidth-802.11a(20MHz)
,5580MHz,Ant13



U-NII-3 99%&26dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant13



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



6dB Down Bandwidth Test Result and Data

U-NII-3 Occupied 6 dB Bandwidth - SISO					
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Limit (kHz)	Result
802.11n (20MHz)	5745	Ant13	17.62	500	Pass
802.11n (20MHz)	5745	Ant11	17.62	500	Pass
802.11n (20MHz)	5785	Ant13	17.63	500	Pass
802.11n (20MHz)	5785	Ant11	17.63	500	Pass
802.11n (20MHz)	5825	Ant13	17.66	500	Pass
802.11n (20MHz)	5825	Ant11	17.57	500	Pass
802.11n (40MHz)	5755	Ant13	36.42	500	Pass
802.11n (40MHz)	5755	Ant11	36.40	500	Pass
802.11n (40MHz)	5795	Ant13	36.41	500	Pass
802.11n (40MHz)	5795	Ant11	36.42	500	Pass
802.11ac (20MHz)	5745	Ant13	17.61	500	Pass
802.11ac (20MHz)	5745	Ant11	17.81	500	Pass
802.11ac (20MHz)	5785	Ant13	17.74	500	Pass
802.11ac (20MHz)	5785	Ant11	17.60	500	Pass
802.11ac (20MHz)	5825	Ant13	17.62	500	Pass
802.11ac (20MHz)	5825	Ant11	17.64	500	Pass
802.11ac (40MHz)	5755	Ant13	36.43	500	Pass
802.11ac (40MHz)	5755	Ant11	36.44	500	Pass
802.11ac (40MHz)	5795	Ant13	36.38	500	Pass
802.11ac (40MHz)	5795	Ant11	36.54	500	Pass
802.11ac (80MHz)	5775	Ant13	76.39	500	Pass
802.11ac (80MHz)	5775	Ant11	76.51	500	Pass
802.11a (20MHz)	5745	Ant13	16.39	500	Pass
802.11a (20MHz)	5745	Ant11	16.37	500	Pass
802.11a (20MHz)	5785	Ant13	16.35	500	Pass
802.11a (20MHz)	5785	Ant11	16.36	500	Pass
802.11a (20MHz)	5825	Ant13	16.44	500	Pass
802.11a (20MHz)	5825	Ant11	16.40	500	Pass
802.11ax (20MHz)	5745	Ant13	19.21	500	Pass
802.11ax (20MHz)	5745	Ant11	19.09	500	Pass



802.11ax (20MHz)	5785	Ant13	19.02	500	Pass
802.11ax (20MHz)	5785	Ant11	18.97	500	Pass
802.11ax (20MHz)	5825	Ant13	18.98	500	Pass
802.11ax (20MHz)	5825	Ant11	19.14	500	Pass
802.11ax (40MHz)	5755	Ant13	37.93	500	Pass
802.11ax (40MHz)	5755	Ant11	38.24	500	Pass
802.11ax (40MHz)	5795	Ant13	38.16	500	Pass
802.11ax (40MHz)	5795	Ant11	37.99	500	Pass
802.11ax (80MHz)	5775	Ant13	78.21	500	Pass
802.11ax (80MHz)	5775	Ant11	78.18	500	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.

Test Plots

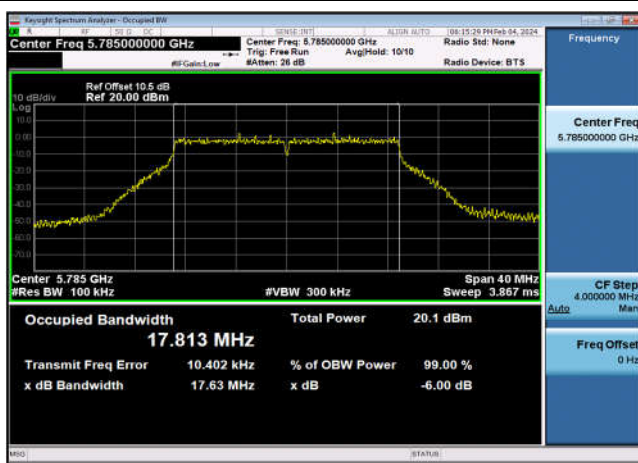
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5745MHz,Ant13



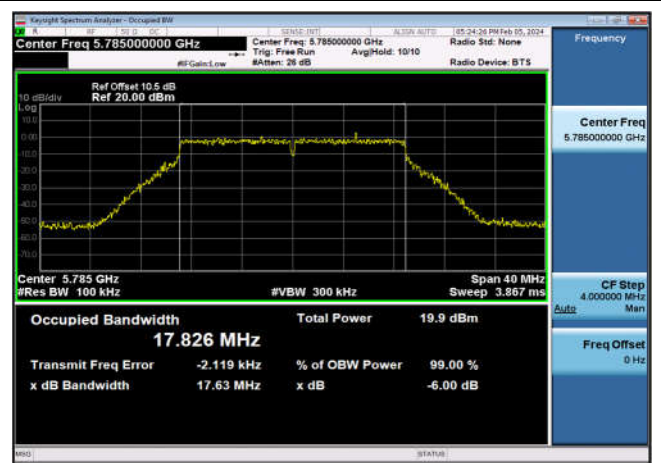
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5745MHz,Ant11



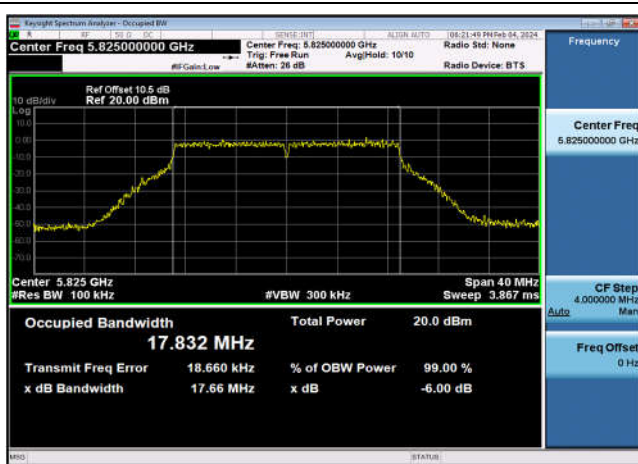
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5785MHz,Ant13



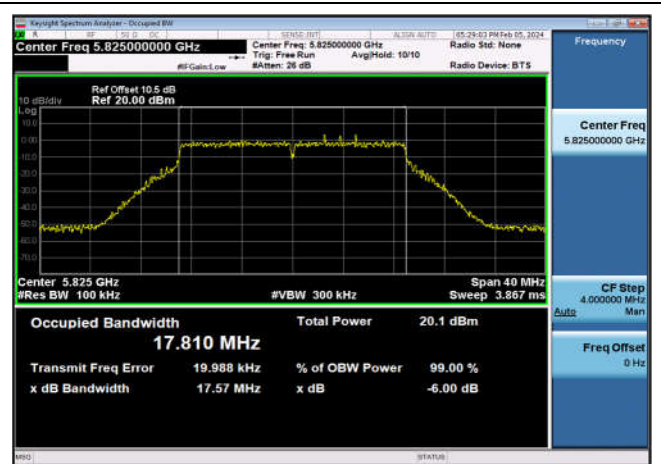
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5785MHz,Ant11



U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5825MHz,Ant13

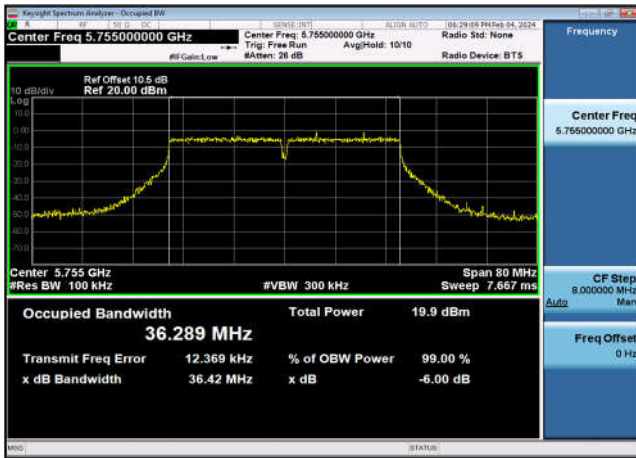


U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5825MHz,Ant11





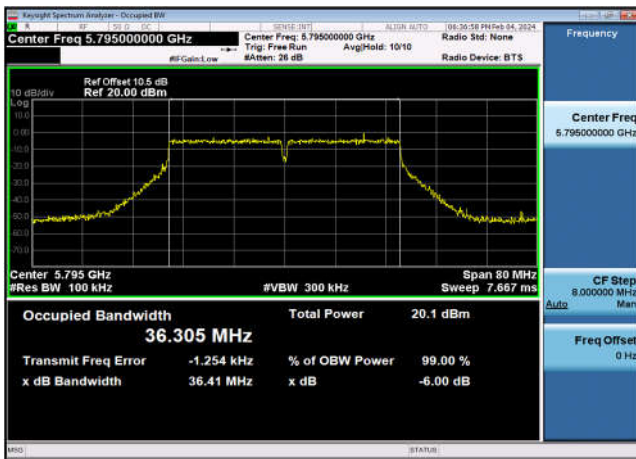
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5755MHz,Ant13



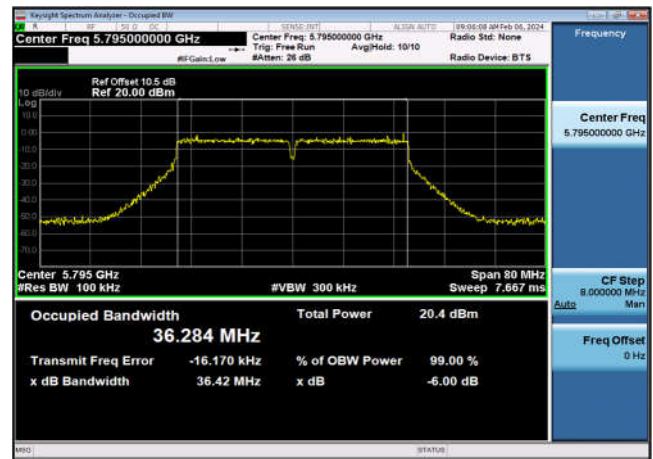
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5755MHz,Ant11



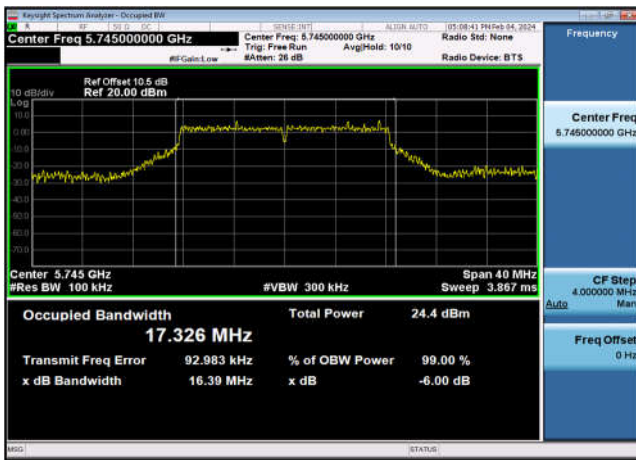
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5795MHz,Ant13



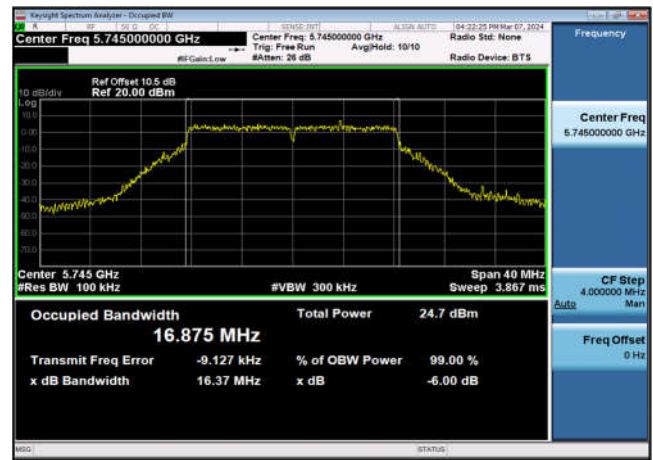
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5795MHz,Ant11



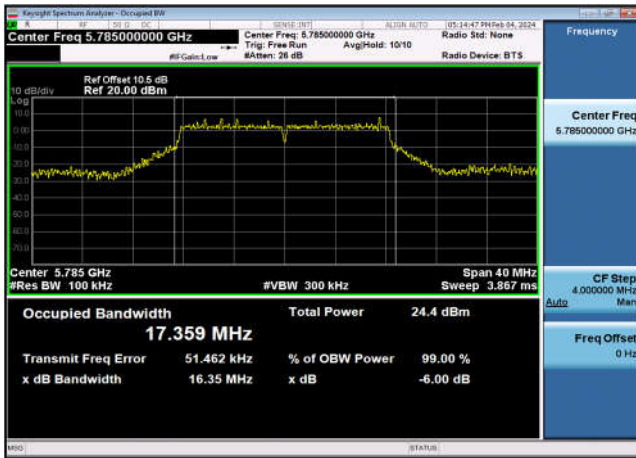
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5745MHz,Ant13



U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5745MHz,Ant11



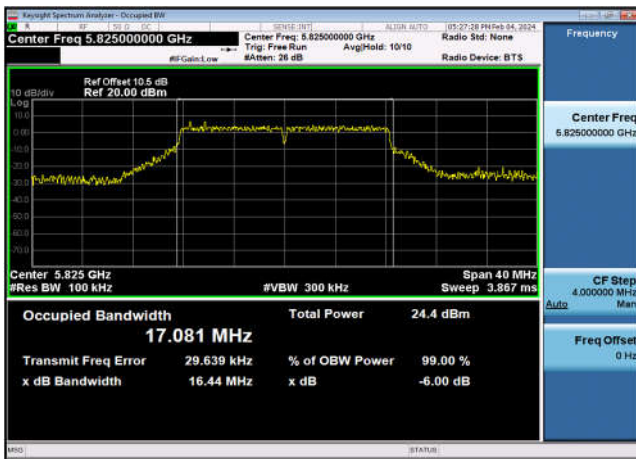
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant13



U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant11



U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5825MHz,Ant13



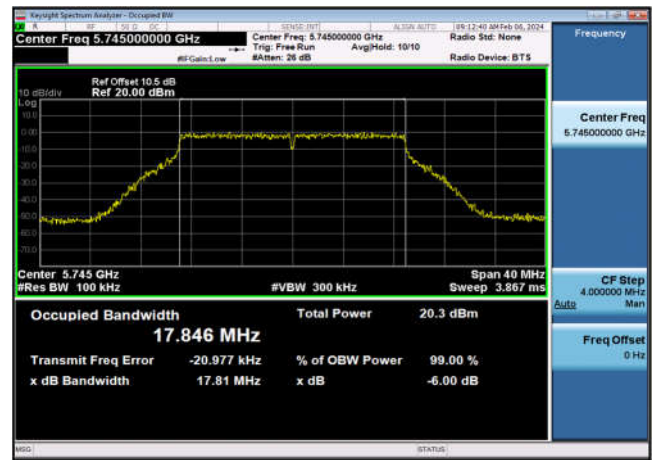
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5825MHz,Ant11



U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5745MHz,Ant13

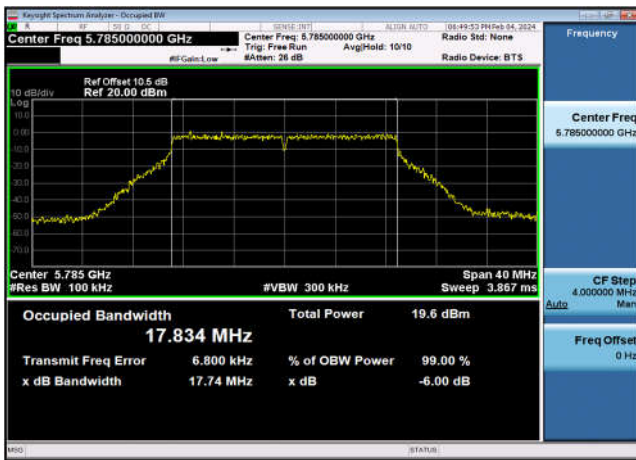


U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5745MHz,Ant11





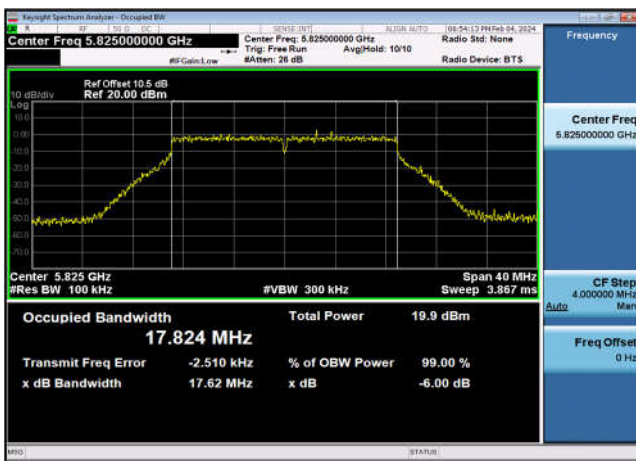
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5785MHz,Ant13



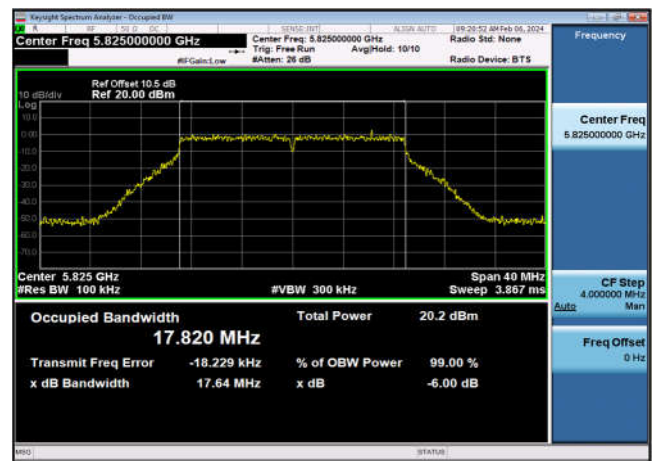
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5785MHz,Ant11



U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5825MHz,Ant13



U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5825MHz,Ant11



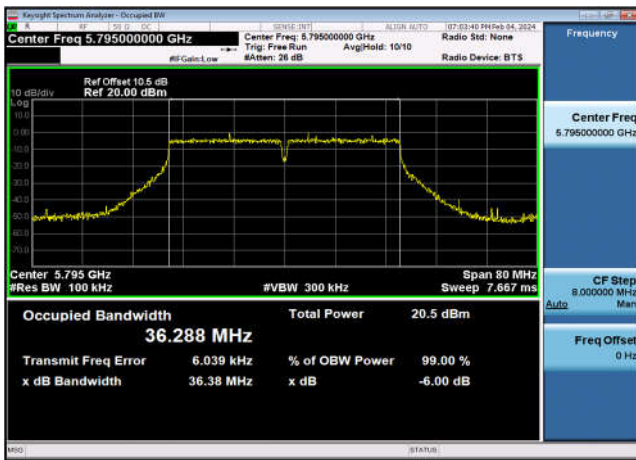
U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5755MHz,Ant13



U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5755MHz,Ant11



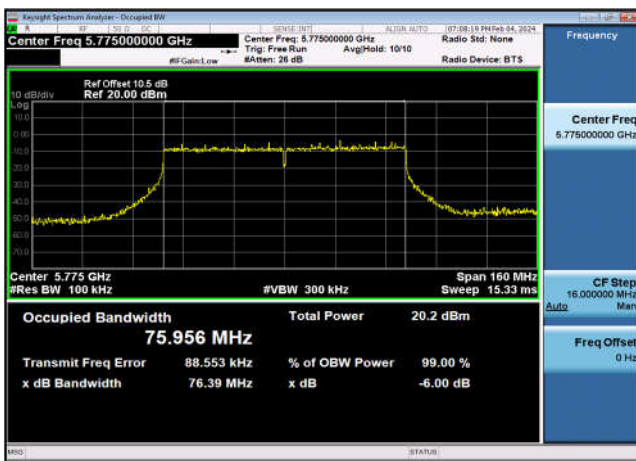
U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5795MHz,Ant13



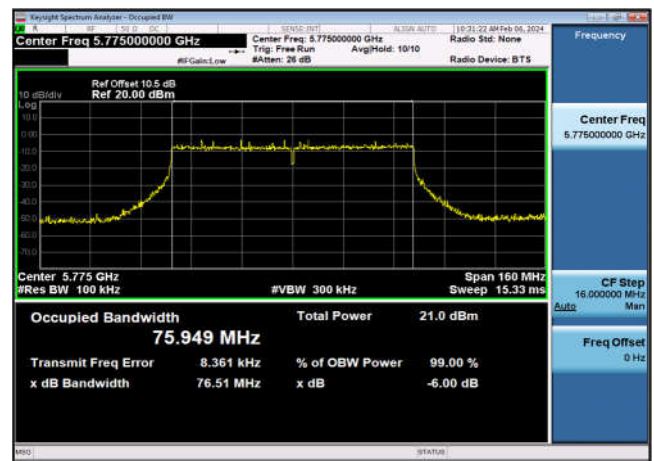
U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5795MHz,Ant11



U-NII-3 6dB Bandwidth-802.11ac(80MHz)
,5775MHz,Ant13



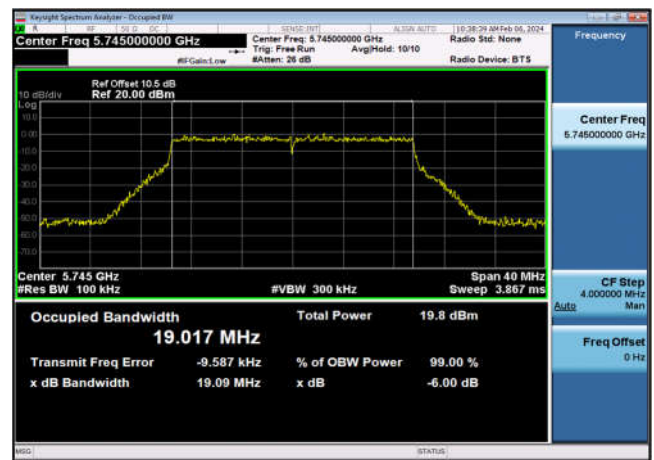
U-NII-3 6dB Bandwidth-802.11ac(80MHz)
,5775MHz,Ant11



U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5745MHz,Ant13

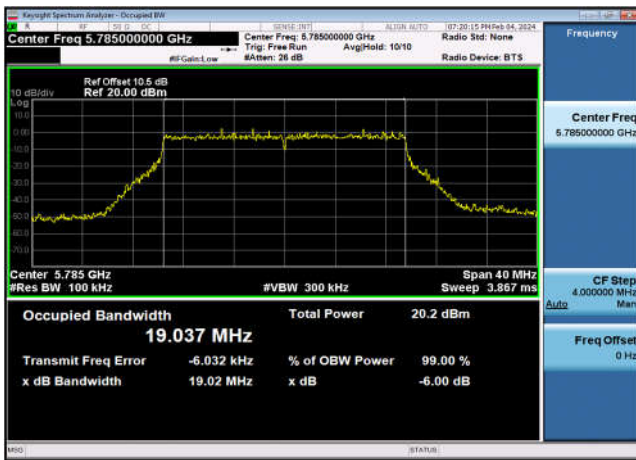


U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5745MHz,Ant11





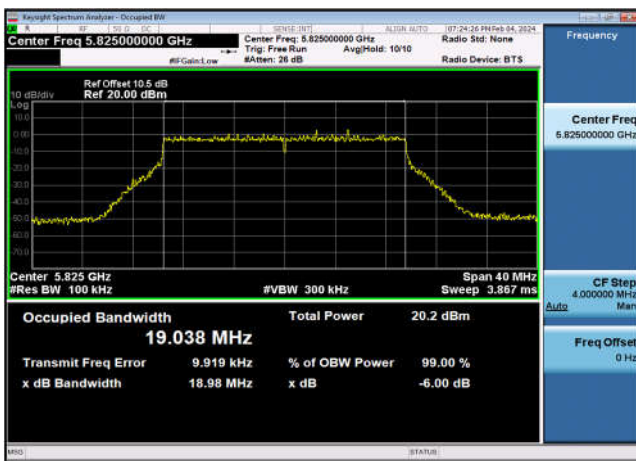
U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5785MHz,Ant13



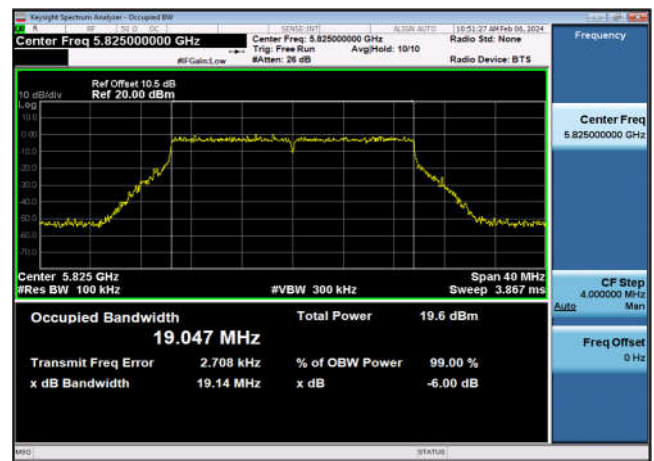
U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5785MHz,Ant11



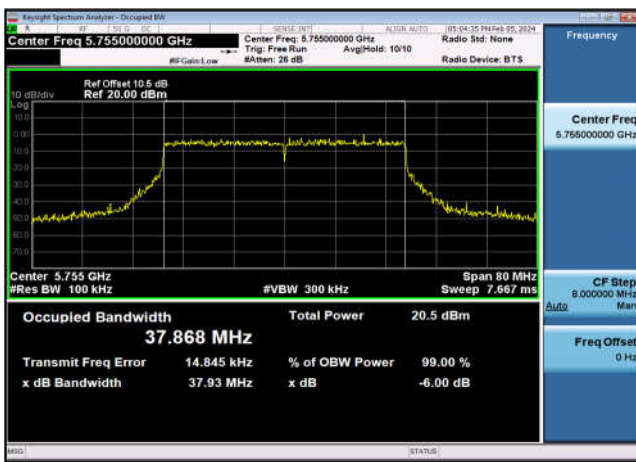
U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5825MHz,Ant13



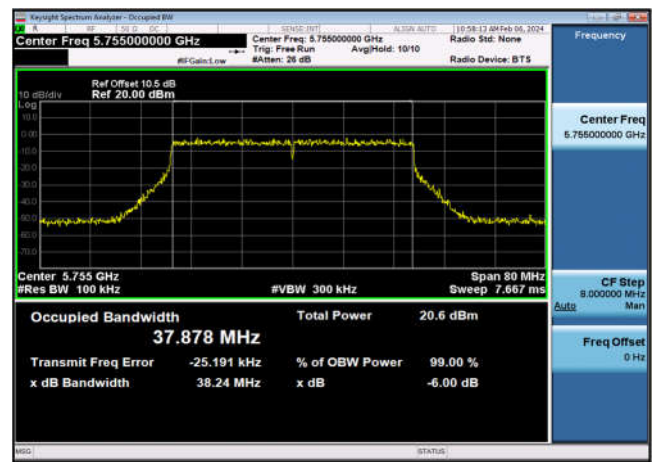
U-NII-3 6dB Bandwidth-802.11ax(20MHz)
,5825MHz,Ant11



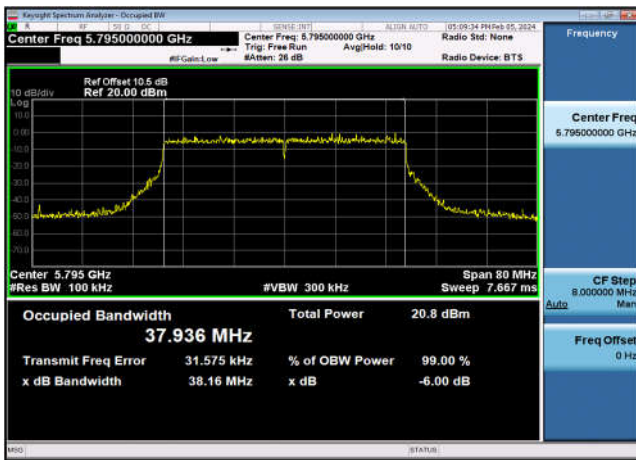
U-NII-3 6dB Bandwidth-802.11ax(40MHz)
,5755MHz,Ant13



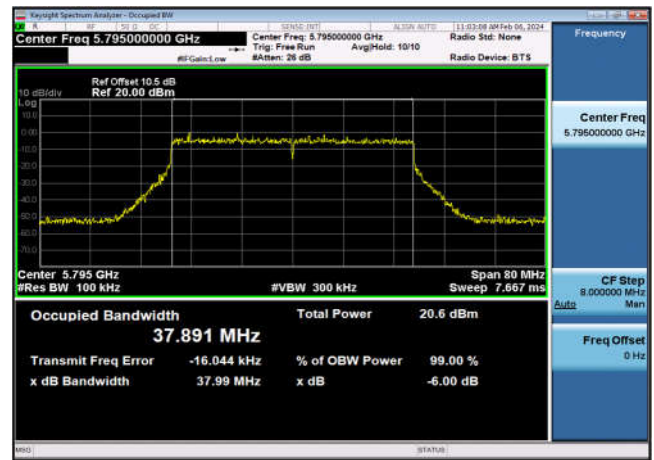
U-NII-3 6dB Bandwidth-802.11ax(40MHz)
,5755MHz,Ant11



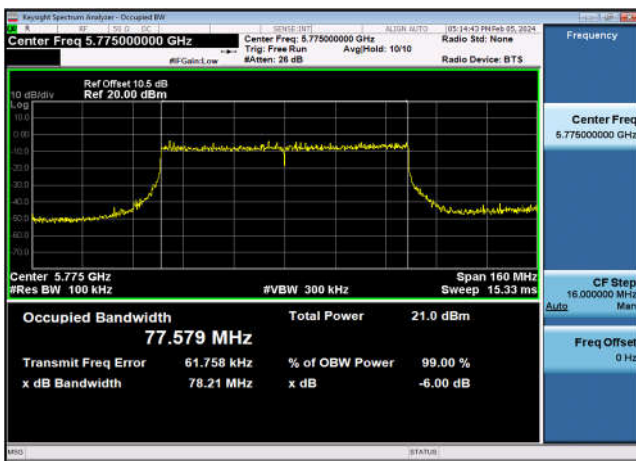
U-NII-3 6dB Bandwidth-802.11ax(40MHz)
,5795MHz,Ant13



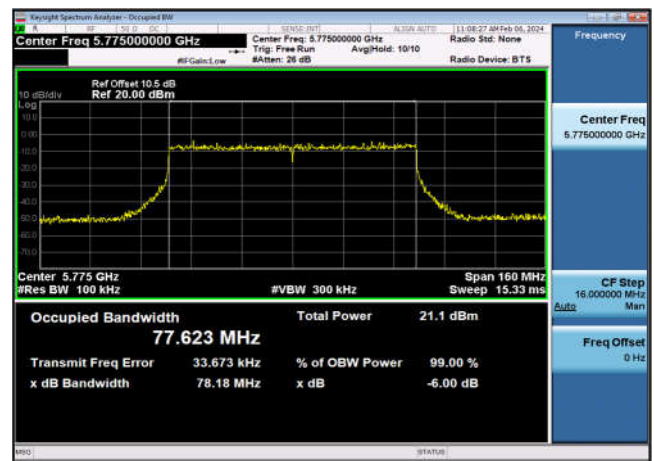
U-NII-3 6dB Bandwidth-802.11ax(40MHz)
,5795MHz,Ant11



U-NII-3 6dB Bandwidth-802.11ax(80MHz)
,5775MHz,Ant13



U-NII-3 6dB Bandwidth-802.11ax(80MHz)
,5775MHz,Ant11





Frequency Stability Test Result and Data

U-NII-1 Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5180	Ant13	5171.102	5188.884	5179.993	-1.350	Pass
802.11n (20MHz)	5180	Ant11	5171.090	5188.894	5179.992	-1.540	Pass
802.11n (20MHz)	5220	Ant13	5211.078	5228.898	5219.988	-2.300	Pass
802.11n (20MHz)	5220	Ant11	5211.085	5228.918	5220.002	0.290	Pass
802.11n (20MHz)	5240	Ant13	5231.089	5248.894	5239.992	-1.620	Pass
802.11n (20MHz)	5240	Ant11	5231.109	5248.900	5240.005	0.860	Pass
802.11n (40MHz)	5190	Ant13	5171.724	5208.258	5189.991	-1.730	Pass
802.11n (40MHz)	5190	Ant11	5171.720	5208.270	5189.995	-0.960	Pass
802.11n (40MHz)	5230	Ant13	5211.694	5248.266	5229.980	-3.820	Pass
802.11n (40MHz)	5230	Ant11	5211.726	5248.268	5229.997	-0.570	Pass
802.11ac (20MHz)	5180	Ant13	5171.092	5188.876	5179.984	-3.090	Pass
802.11ac (20MHz)	5180	Ant11	5171.090	5188.904	5179.997	-0.580	Pass
802.11ac (20MHz)	5220	Ant13	5211.083	5228.897	5219.990	-1.920	Pass
802.11ac (20MHz)	5220	Ant11	5211.105	5228.887	5219.996	-0.770	Pass
802.11ac (20MHz)	5240	Ant13	5231.088	5248.907	5239.998	-0.480	Pass
802.11ac (20MHz)	5240	Ant11	5231.090	5248.894	5239.992	-1.530	Pass
802.11ac (40MHz)	5190	Ant13	5171.710	5208.270	5189.990	-1.930	Pass
802.11ac (40MHz)	5190	Ant11	5171.712	5208.264	5189.988	-2.310	Pass
802.11ac (40MHz)	5230	Ant13	5211.720	5248.248	5229.984	-3.060	Pass
802.11ac (40MHz)	5230	Ant11	5211.722	5248.264	5229.993	-1.340	Pass
802.11ac (80MHz)	5210	Ant13	5171.724	5248.252	5209.988	-2.300	Pass
802.11ac (80MHz)	5210	Ant11	5171.728	5248.288	5210.008	1.540	Pass
802.11a (20MHz)	5180	Ant13	5171.728	5188.250	5179.989	-2.120	Pass
802.11a (20MHz)	5180	Ant11	5171.733	5188.300	5180.017	3.190	Pass
802.11a (20MHz)	5220	Ant13	5211.696	5228.289	5219.993	-1.440	Pass
802.11a (20MHz)	5220	Ant11	5211.722	5228.293	5220.008	1.440	Pass
802.11a (20MHz)	5240	Ant13	5231.716	5248.290	5240.003	0.570	Pass
802.11a (20MHz)	5240	Ant11	5231.699	5248.292	5239.996	-0.860	Pass
802.11ax (20MHz)	5180	Ant13	5170.421	5189.565	5179.993	-1.350	Pass



802.11ax (20MHz)	5180	Ant11	5170.419	5189.570	5179.995	-1.060	Pass
802.11ax (20MHz)	5220	Ant13	5210.430	5229.572	5220.001	0.190	Pass
802.11ax (20MHz)	5220	Ant11	5210.428	5229.573	5220.001	0.100	Pass
802.11ax (20MHz)	5240	Ant13	5230.419	5249.579	5239.999	-0.190	Pass
802.11ax (20MHz)	5240	Ant11	5230.426	5249.575	5240.001	0.100	Pass
802.11ax (40MHz)	5190	Ant13	5170.880	5209.106	5189.993	-1.350	Pass
802.11ax (40MHz)	5190	Ant11	5170.890	5209.104	5189.997	-0.580	Pass
802.11ax (40MHz)	5230	Ant13	5210.892	5249.110	5230.001	0.190	Pass
802.11ax (40MHz)	5230	Ant11	5210.886	5249.104	5229.995	-0.960	Pass
802.11ax (80MHz)	5210	Ant13	5170.896	5249.100	5209.998	-0.380	Pass
802.11ax (80MHz)	5210	Ant11	5170.892	5249.104	5209.998	-0.380	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-2a Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5260	Ant13	5251.088	5268.900	5259.994	-1.140	Pass
802.11n (20MHz)	5260	Ant11	5251.085	5268.890	5259.988	-2.380	Pass
802.11n (20MHz)	5300	Ant13	5291.089	5308.897	5299.993	-1.320	Pass
802.11n (20MHz)	5300	Ant11	5291.089	5308.911	5300.000	0.000	Pass
802.11n (20MHz)	5320	Ant13	5311.086	5328.898	5319.992	-1.500	Pass
802.11n (20MHz)	5320	Ant11	5311.088	5328.902	5319.995	-0.940	Pass
802.11n (40MHz)	5270	Ant13	5251.730	5288.258	5269.994	-1.140	Pass
802.11n (40MHz)	5270	Ant11	5251.710	5288.256	5269.983	-3.230	Pass
802.11n (40MHz)	5310	Ant13	5291.712	5328.266	5309.989	-2.070	Pass
802.11n (40MHz)	5310	Ant11	5291.726	5328.268	5309.997	-0.560	Pass
802.11ac (20MHz)	5260	Ant13	5251.101	5268.891	5259.996	-0.760	Pass
802.11ac (20MHz)	5260	Ant11	5251.098	5268.897	5259.998	-0.480	Pass
802.11ac (20MHz)	5300	Ant13	5291.098	5308.887	5299.993	-1.420	Pass
802.11ac (20MHz)	5300	Ant11	5291.094	5308.898	5299.996	-0.750	Pass
802.11ac (20MHz)	5320	Ant13	5311.085	5328.903	5319.994	-1.130	Pass
802.11ac (20MHz)	5320	Ant11	5311.088	5328.897	5319.993	-1.410	Pass
802.11ac (40MHz)	5270	Ant13	5251.720	5288.270	5269.995	-0.950	Pass
802.11ac (40MHz)	5270	Ant11	5251.728	5288.280	5270.004	0.760	Pass
802.11ac (40MHz)	5310	Ant13	5291.714	5328.258	5309.986	-2.640	Pass
802.11ac (40MHz)	5310	Ant11	5291.714	5328.272	5309.993	-1.320	Pass
802.11ac (80MHz)	5290	Ant13	5251.720	5328.272	5289.996	-0.760	Pass
802.11ac (80MHz)	5290	Ant11	5251.728	5328.264	5289.996	-0.760	Pass
802.11ac (160MHz)	5250	Ant13	5171.748	5328.246	5249.997	-0.570	Pass
802.11ac (160MHz)	5250	Ant11	5171.772	5328.216	5249.994	-1.140	Pass
802.11a (20MHz)	5260	Ant13	5251.720	5268.273	5259.997	-0.670	Pass
802.11a (20MHz)	5260	Ant11	5251.719	5268.289	5260.004	0.760	Pass
802.11a (20MHz)	5300	Ant13	5291.709	5308.270	5299.990	-1.980	Pass
802.11a (20MHz)	5300	Ant11	5291.698	5308.293	5299.996	-0.850	Pass
802.11a (20MHz)	5320	Ant13	5311.714	5328.282	5319.998	-0.380	Pass
802.11a (20MHz)	5320	Ant11	5311.717	5328.294	5320.006	1.030	Pass
802.11ax (160MHz)	5250	Ant13	5170.902	5329.086	5249.994	-1.140	Pass



802.11ax (160MHz)	5250	Ant11	5170.884	5329.086	5249.985	-2.860	Pass
802.11ax (20MHz)	5260	Ant13	5250.421	5269.568	5259.995	-1.050	Pass
802.11ax (20MHz)	5260	Ant11	5250.422	5269.568	5259.995	-0.950	Pass
802.11ax (20MHz)	5300	Ant13	5290.422	5309.571	5299.997	-0.660	Pass
802.11ax (20MHz)	5300	Ant11	5290.419	5309.569	5299.994	-1.130	Pass
802.11ax (20MHz)	5320	Ant13	5310.422	5329.571	5319.997	-0.660	Pass
802.11ax (20MHz)	5320	Ant11	5310.423	5329.571	5319.997	-0.560	Pass
802.11ax (40MHz)	5270	Ant13	5250.896	5289.102	5269.999	-0.190	Pass
802.11ax (40MHz)	5270	Ant11	5250.888	5289.100	5269.994	-1.140	Pass
802.11ax (40MHz)	5310	Ant13	5290.874	5329.100	5309.987	-2.450	Pass
802.11ax (40MHz)	5310	Ant11	5290.882	5329.102	5309.992	-1.510	Pass
802.11ax (80MHz)	5290	Ant13	5250.888	5329.100	5289.994	-1.130	Pass
802.11ax (80MHz)	5290	Ant11	5250.892	5329.100	5289.996	-0.760	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-2c Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5500	Ant13	5491.077	5508.909	5499.993	-1.270	Pass
802.11n (20MHz)	5500	Ant11	5491.080	5508.907	5499.994	-1.180	Pass
802.11n (20MHz)	5580	Ant13	5571.099	5588.898	5579.999	-0.270	Pass
802.11n (20MHz)	5580	Ant11	5571.079	5588.897	5579.988	-2.150	Pass
802.11n (20MHz)	5700	Ant13	5691.091	5708.900	5699.996	-0.790	Pass
802.11n (20MHz)	5700	Ant11	5691.088	5708.893	5699.991	-1.670	Pass
802.11n (40MHz)	5510	Ant13	5491.728	5528.274	5510.001	0.180	Pass
802.11n (40MHz)	5510	Ant11	5491.716	5528.260	5509.988	-2.180	Pass
802.11n (40MHz)	5550	Ant13	5531.714	5568.268	5549.991	-1.620	Pass
802.11n (40MHz)	5550	Ant11	5531.724	5568.258	5549.991	-1.620	Pass
802.11n (40MHz)	5670	Ant13	5651.724	5688.256	5669.990	-1.760	Pass
802.11n (40MHz)	5670	Ant11	5651.726	5688.266	5669.996	-0.710	Pass
802.11ac (20MHz)	5500	Ant13	5491.092	5508.884	5499.988	-2.180	Pass
802.11ac (20MHz)	5500	Ant11	5491.099	5508.888	5499.994	-1.180	Pass
802.11ac (20MHz)	5580	Ant13	5571.082	5588.902	5579.992	-1.430	Pass
802.11ac (20MHz)	5580	Ant11	5571.090	5588.891	5579.991	-1.700	Pass
802.11ac (20MHz)	5700	Ant13	5691.105	5708.890	5699.998	-0.440	Pass
802.11ac (20MHz)	5700	Ant11	5691.099	5708.886	5699.993	-1.320	Pass
802.11ac (40MHz)	5510	Ant13	5491.726	5528.276	5510.001	0.180	Pass
802.11ac (40MHz)	5510	Ant11	5491.704	5528.272	5509.988	-2.180	Pass
802.11ac (40MHz)	5550	Ant13	5531.710	5568.256	5549.983	-3.060	Pass
802.11ac (40MHz)	5550	Ant11	5531.720	5568.256	5549.988	-2.160	Pass
802.11ac (40MHz)	5670	Ant13	5651.704	5688.272	5669.988	-2.120	Pass
802.11ac (40MHz)	5670	Ant11	5651.724	5688.266	5669.995	-0.880	Pass
802.11ac (80MHz)	5530	Ant13	5491.716	5568.284	5530.000	0.000	Pass
802.11ac (80MHz)	5530	Ant11	5491.712	5568.264	5529.988	-2.170	Pass
802.11ac (160MHz)	5570	Ant13	5491.720	5648.248	5569.984	-2.870	Pass
802.11ac (160MHz)	5570	Ant11	5491.736	5648.240	5569.988	-2.150	Pass
802.11a (20MHz)	5500	Ant13	5491.701	5508.297	5499.999	-0.180	Pass
802.11a (20MHz)	5500	Ant11	5491.716	5508.292	5500.004	0.730	Pass
802.11a (20MHz)	5580	Ant13	5571.696	5588.295	5579.996	-0.810	Pass



802.11a (20MHz)	5580	Ant11	5571.695	5588.296	5579.996	-0.810	Pass
802.11a (20MHz)	5700	Ant13	5691.716	5708.291	5700.004	0.610	Pass
802.11a (20MHz)	5700	Ant11	5691.716	5708.289	5700.003	0.440	Pass
802.11ax (160MHz)	5570	Ant13	5490.896	5649.088	5569.992	-1.440	Pass
802.11ax (160MHz)	5570	Ant11	5490.896	5649.088	5569.992	-1.440	Pass
802.11ax (20MHz)	5500	Ant13	5490.416	5509.573	5499.995	-1.000	Pass
802.11ax (20MHz)	5500	Ant11	5490.423	5509.570	5499.997	-0.640	Pass
802.11ax (20MHz)	5580	Ant13	5570.418	5589.567	5579.993	-1.340	Pass
802.11ax (20MHz)	5580	Ant11	5570.414	5589.565	5579.990	-1.880	Pass
802.11ax (20MHz)	5700	Ant13	5690.419	5709.562	5699.991	-1.670	Pass
802.11ax (20MHz)	5700	Ant11	5690.418	5709.567	5699.993	-1.320	Pass
802.11ax (40MHz)	5510	Ant13	5490.882	5529.104	5509.993	-1.270	Pass
802.11ax (40MHz)	5510	Ant11	5490.888	5529.100	5509.994	-1.090	Pass
802.11ax (40MHz)	5550	Ant13	5530.886	5569.098	5549.992	-1.440	Pass
802.11ax (40MHz)	5550	Ant11	5530.882	5569.096	5549.989	-1.980	Pass
802.11ax (40MHz)	5670	Ant13	5650.884	5689.102	5669.993	-1.230	Pass
802.11ax (40MHz)	5670	Ant11	5650.892	5689.104	5669.998	-0.350	Pass
802.11ax (80MHz)	5530	Ant13	5490.892	5569.100	5529.996	-0.720	Pass
802.11ax (80MHz)	5530	Ant11	5490.892	5569.096	5529.994	-1.080	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.



U-NII-3 Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5745	Ant13	5736.111	5753.898	5745.005	0.780	Pass
802.11n (20MHz)	5745	Ant11	5736.108	5753.897	5745.003	0.440	Pass
802.11n (20MHz)	5785	Ant13	5776.087	5793.891	5784.989	-1.900	Pass
802.11n (20MHz)	5785	Ant11	5776.084	5793.898	5784.991	-1.560	Pass
802.11n (20MHz)	5825	Ant13	5816.089	5833.894	5824.992	-1.460	Pass
802.11n (20MHz)	5825	Ant11	5816.090	5833.891	5824.991	-1.630	Pass
802.11n (40MHz)	5755	Ant13	5736.732	5773.268	5755.000	0.000	Pass
802.11n (40MHz)	5755	Ant11	5736.734	5773.252	5754.993	-1.220	Pass
802.11n (40MHz)	5795	Ant13	5776.722	5813.250	5794.986	-2.420	Pass
802.11n (40MHz)	5795	Ant11	5776.720	5813.256	5794.988	-2.070	Pass
802.11ac (20MHz)	5745	Ant13	5736.087	5753.893	5744.990	-1.740	Pass
802.11ac (20MHz)	5745	Ant11	5736.080	5753.893	5744.987	-2.350	Pass
802.11ac (20MHz)	5785	Ant13	5776.089	5793.886	5784.988	-2.160	Pass
802.11ac (20MHz)	5785	Ant11	5776.102	5793.909	5785.006	0.950	Pass
802.11ac (20MHz)	5825	Ant13	5816.092	5833.895	5824.994	-1.120	Pass
802.11ac (20MHz)	5825	Ant11	5816.091	5833.881	5824.986	-2.400	Pass
802.11ac (40MHz)	5755	Ant13	5736.716	5773.276	5754.996	-0.700	Pass
802.11ac (40MHz)	5755	Ant11	5736.708	5773.262	5754.985	-2.610	Pass
802.11ac (40MHz)	5795	Ant13	5776.712	5813.280	5794.996	-0.690	Pass
802.11ac (40MHz)	5795	Ant11	5776.716	5813.282	5794.999	-0.170	Pass
802.11ac (80MHz)	5775	Ant13	5736.724	5813.284	5775.004	0.690	Pass
802.11ac (80MHz)	5775	Ant11	5736.716	5813.276	5774.996	-0.690	Pass
802.11a (20MHz)	5745	Ant13	5736.717	5753.265	5744.991	-1.570	Pass
802.11a (20MHz)	5745	Ant11	5736.735	5753.249	5744.992	-1.390	Pass
802.11a (20MHz)	5785	Ant13	5776.707	5793.268	5784.988	-2.160	Pass
802.11a (20MHz)	5785	Ant11	5776.705	5793.292	5784.999	-0.260	Pass
802.11a (20MHz)	5825	Ant13	5816.706	5833.252	5824.979	-3.610	Pass
802.11a (20MHz)	5825	Ant11	5816.718	5833.290	5825.004	0.690	Pass
802.11ax (20MHz)	5745	Ant13	5735.424	5754.565	5744.995	-0.960	Pass
802.11ax (20MHz)	5745	Ant11	5735.416	5754.562	5744.989	-1.910	Pass
802.11ax (20MHz)	5785	Ant13	5775.415	5794.568	5784.992	-1.470	Pass



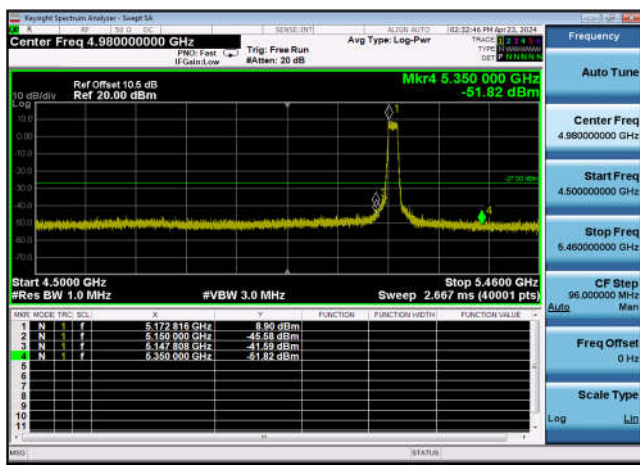
802.11ax (20MHz)	5785	Ant11	5775.418	5794.558	5784.988	-2.070	Pass
802.11ax (20MHz)	5825	Ant13	5815.420	5834.571	5824.996	-0.770	Pass
802.11ax (20MHz)	5825	Ant11	5815.422	5834.567	5824.995	-0.940	Pass
802.11ax (40MHz)	5755	Ant13	5735.886	5774.100	5754.993	-1.220	Pass
802.11ax (40MHz)	5755	Ant11	5735.842	5774.094	5754.968	-5.560	Pass
802.11ax (40MHz)	5795	Ant13	5775.888	5814.100	5794.994	-1.040	Pass
802.11ax (40MHz)	5795	Ant11	5775.880	5814.118	5794.999	-0.170	Pass
802.11ax (80MHz)	5775	Ant13	5735.884	5814.104	5774.994	-1.040	Pass
802.11ax (80MHz)	5775	Ant11	5735.884	5814.096	5774.990	-1.730	Pass

Note: Both SISO and MIMO modes are tested and only worst case (SISO) data is provided.

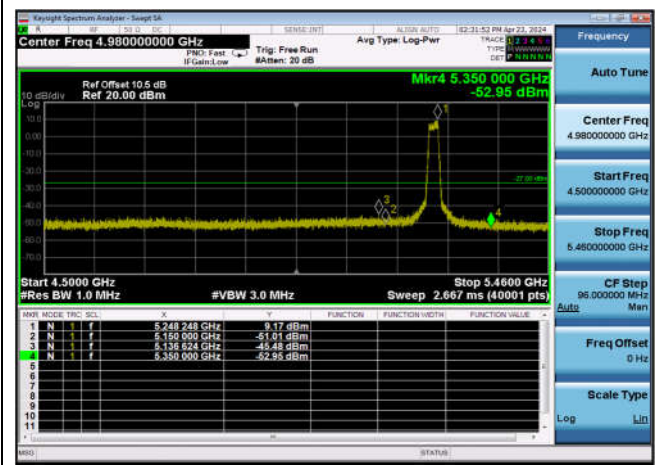
Band Edges Compliance

Note: Both SISO and MIMO modes are tested and only worst case (SISO-ANT11) data is provided.

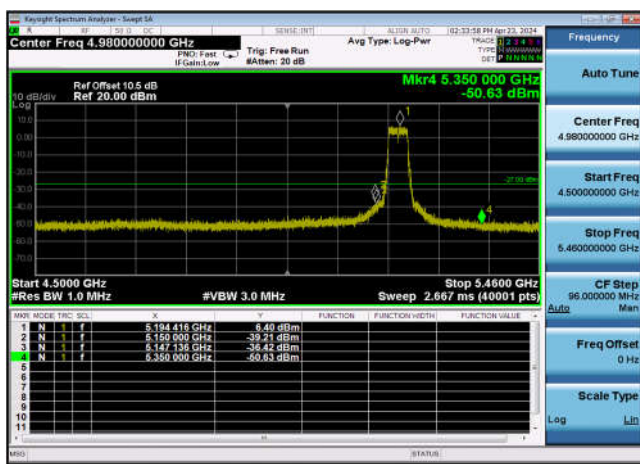
U-NII-1 Band Edge-802.11n(20MHz)
,5180MHz,Ant1



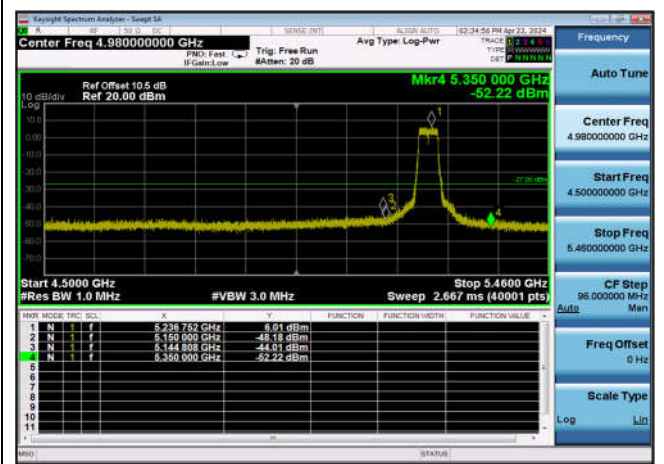
U-NII-1 Band Edge-802.11n(20MHz)
,5240MHz,Ant1



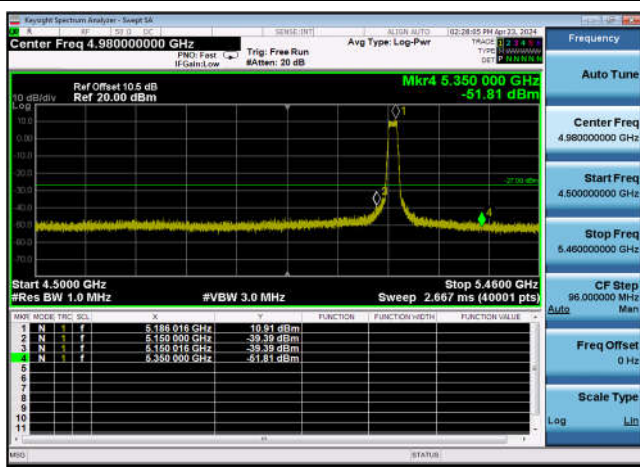
U-NII-1 Band Edge-802.11n(40MHz)
,5190MHz,Ant1



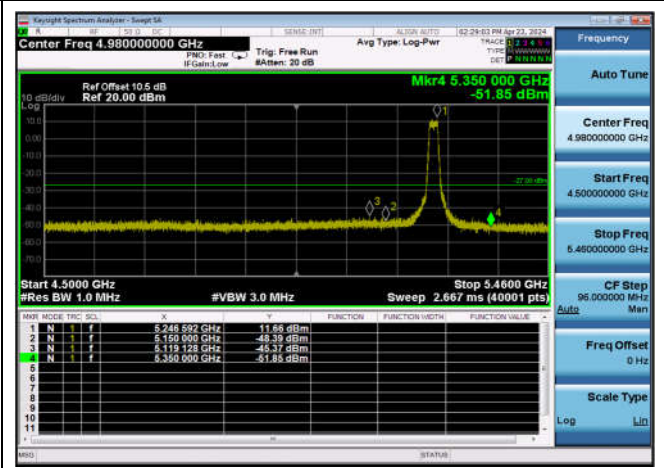
U-NII-1 Band Edge-802.11n(40MHz)
,5230MHz,Ant1



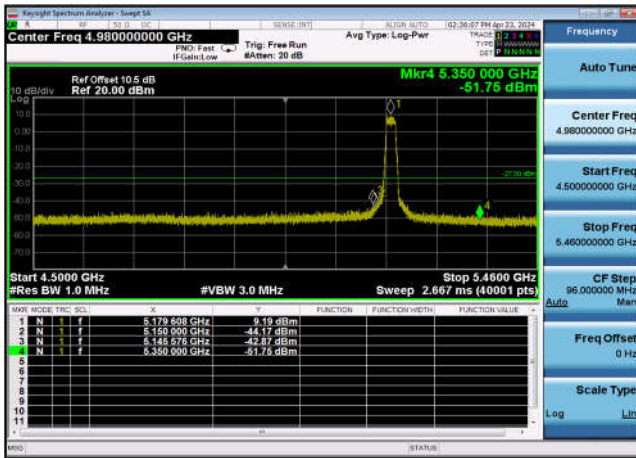
U-NII-1 Band Edge-802.11a(20MHz)
,5180MHz,Ant1



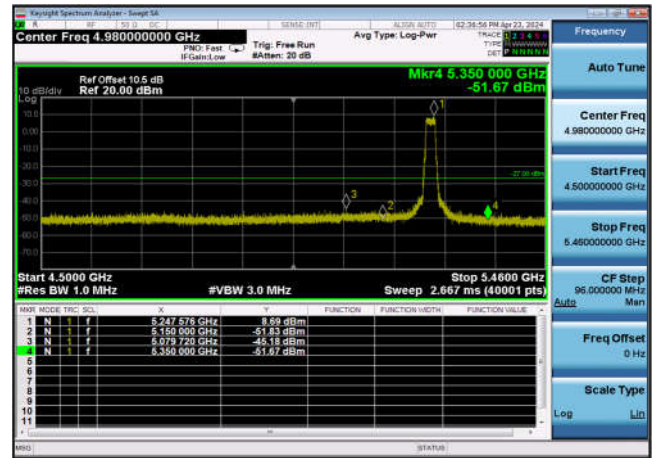
U-NII-1 Band Edge-802.11a(20MHz)
,5240MHz,Ant1



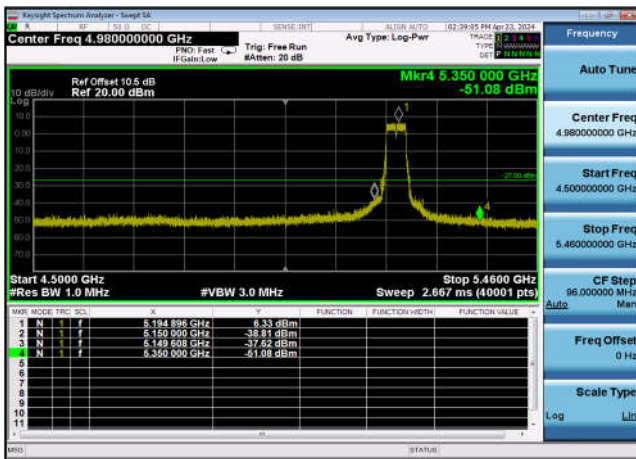
U-NII-1 Band Edge-802.11ac(20MHz)
,5180MHz,Ant1



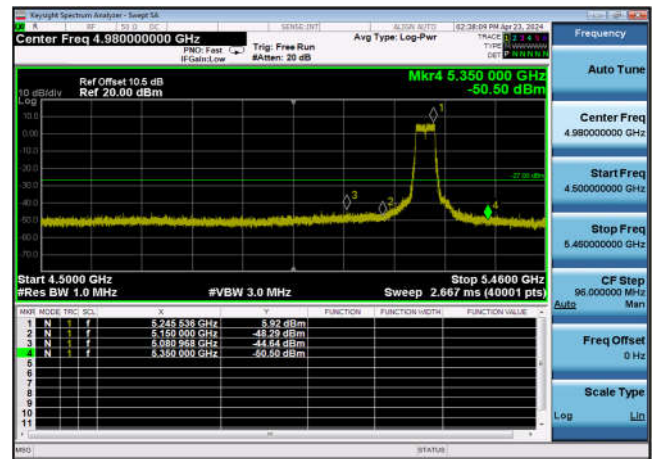
U-NII-1 Band Edge-802.11ac(20MHz)
,5240MHz,Ant1



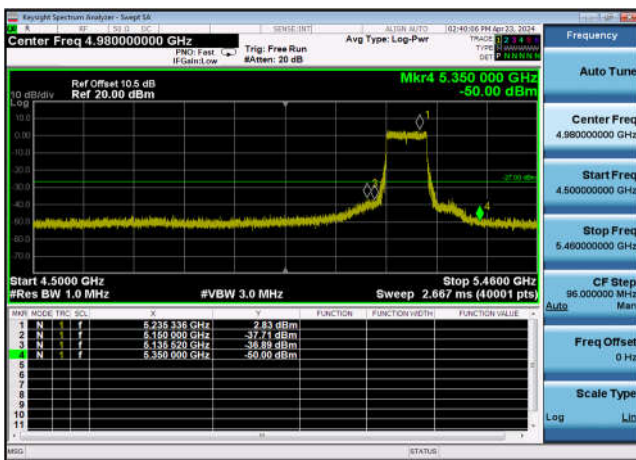
U-NII-1 Band Edge-802.11ac(40MHz)
,5190MHz,Ant1



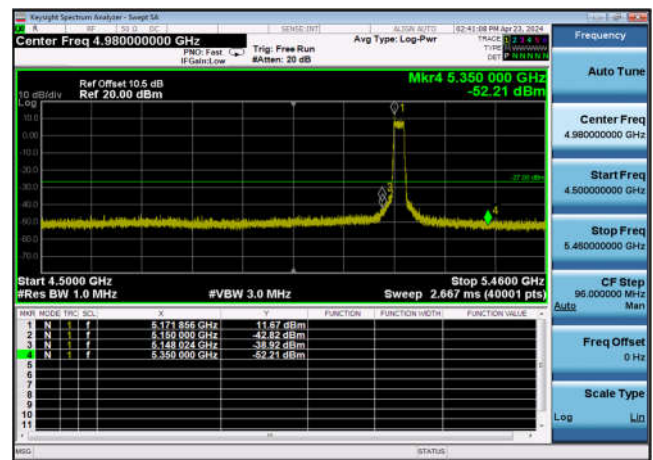
U-NII-1 Band Edge-802.11ac(40MHz)
,5230MHz,Ant1



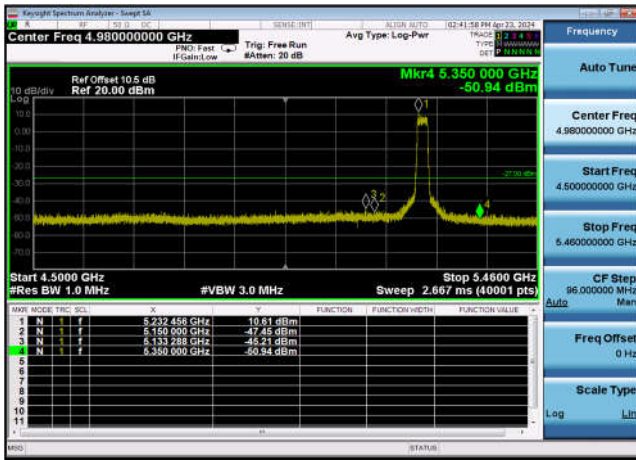
U-NII-1 Band Edge-802.11ac(80MHz)
,5210MHz,Ant1



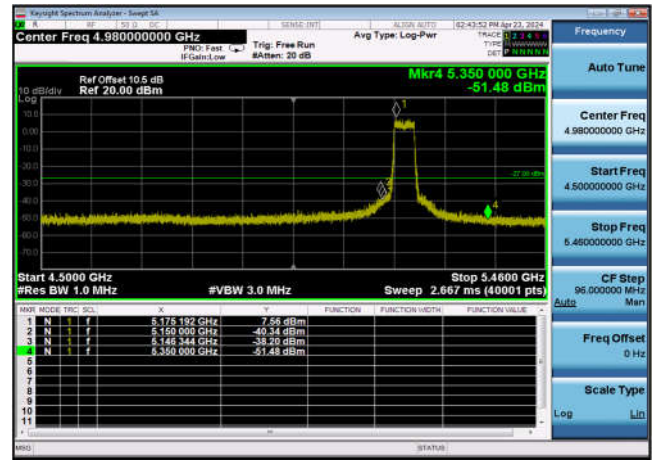
U-NII-1 Band Edge-802.11ax(20MHz)
,5180MHz,Ant1



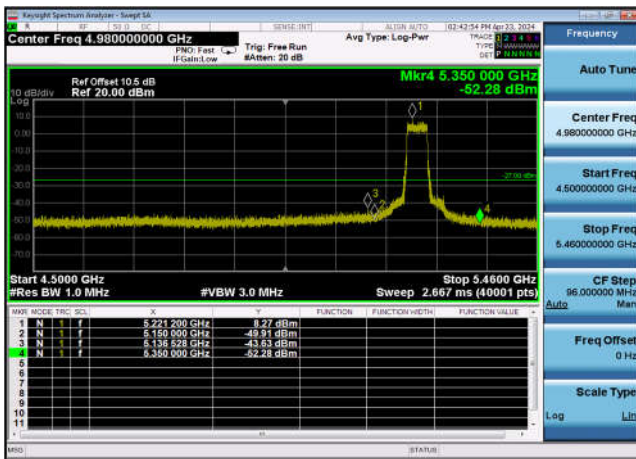
U-NII-1 Band Edge-802.11ax(20MHz)
,5240MHz,Ant1



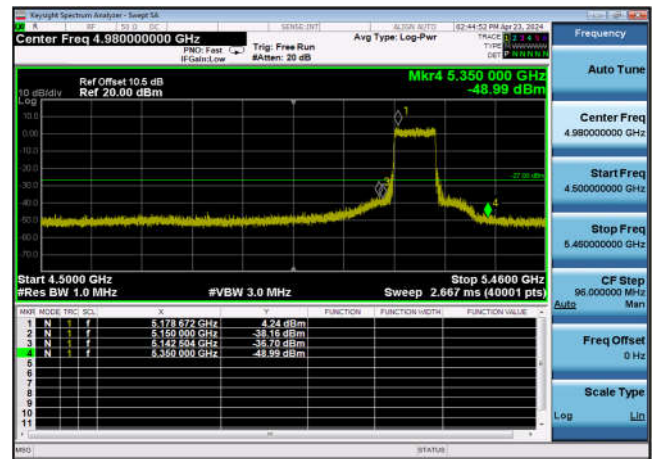
U-NII-1 Band Edge-802.11ax(40MHz)
,5190MHz,Ant1



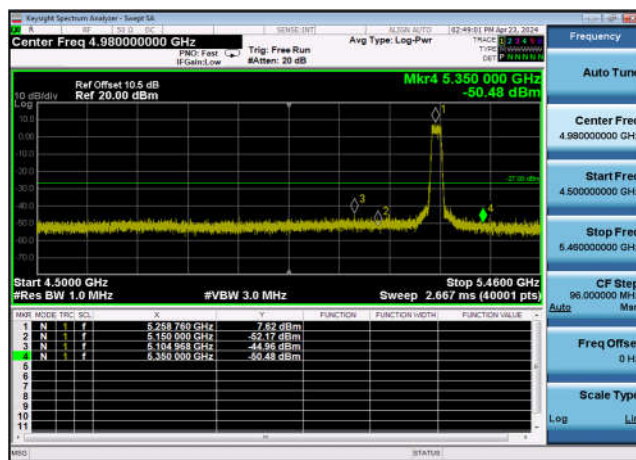
U-NII-1 Band Edge-802.11ax(40MHz)
,5230MHz,Ant1



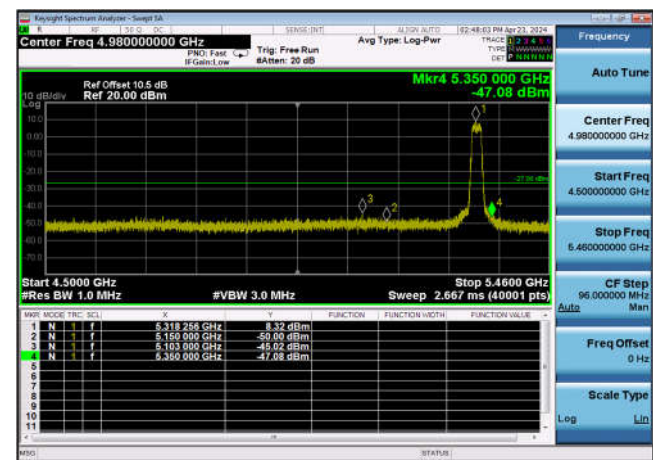
U-NII-1 Band Edge-802.11ax(80MHz)
,5210MHz,Ant1



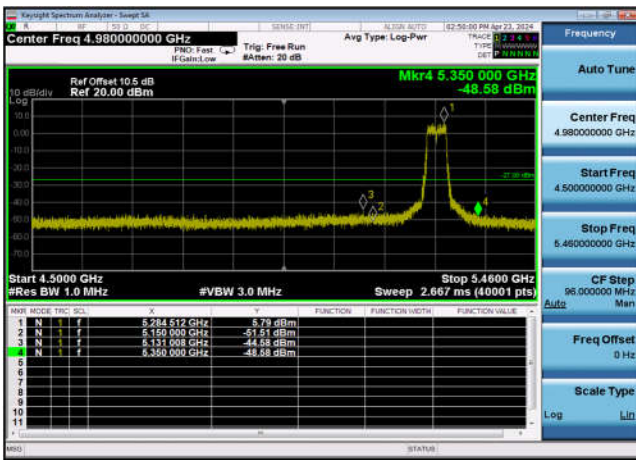
U-NII-2a Band Edge-802.11n(20MHz)
,5260MHz,Ant1



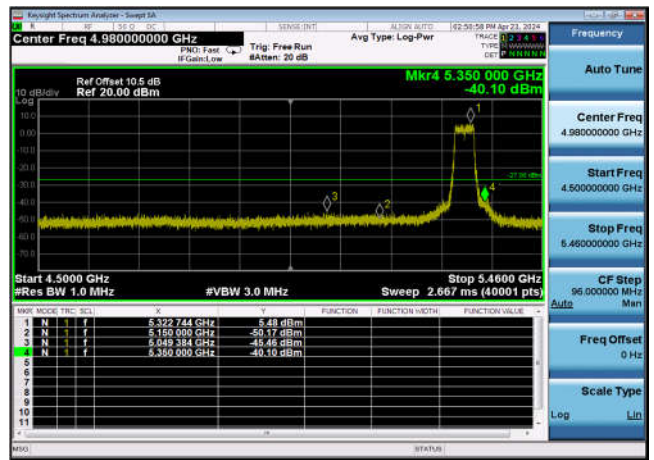
U-NII-2a Band Edge-802.11n(20MHz)
,5320MHz,Ant1



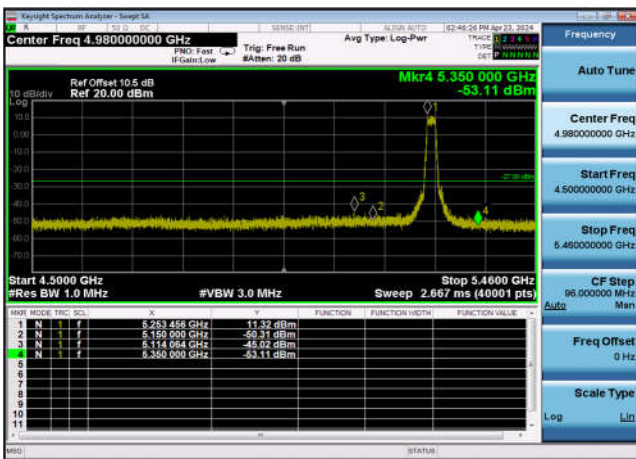
U-NII-2a Band Edge-802.11n(40MHz)
,5270MHz,Ant1



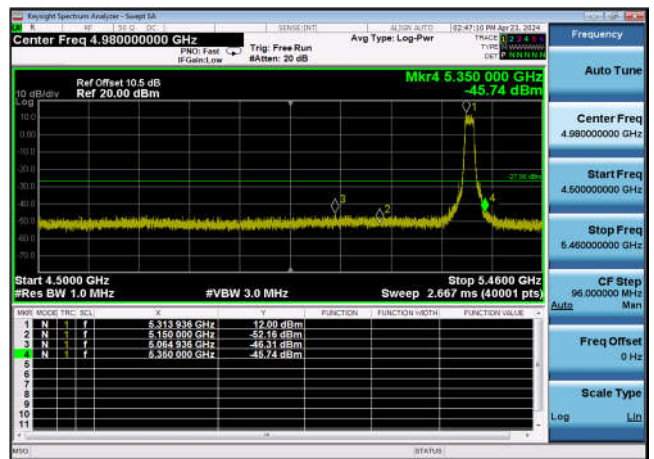
U-NII-2a Band Edge-802.11n(40MHz)
,5310MHz,Ant1



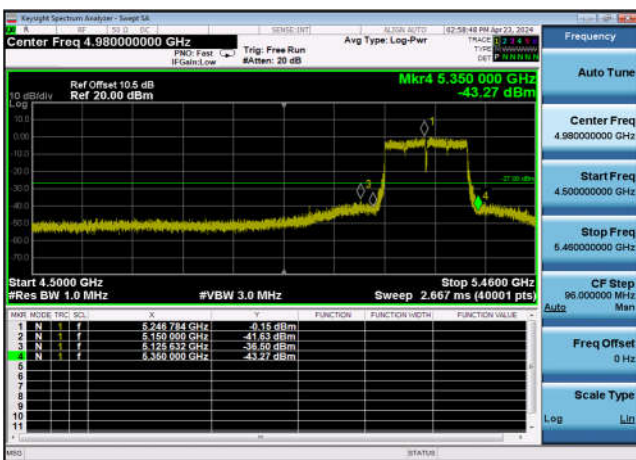
U-NII-2a Band Edge-802.11a(20MHz)
,5260MHz,Ant1



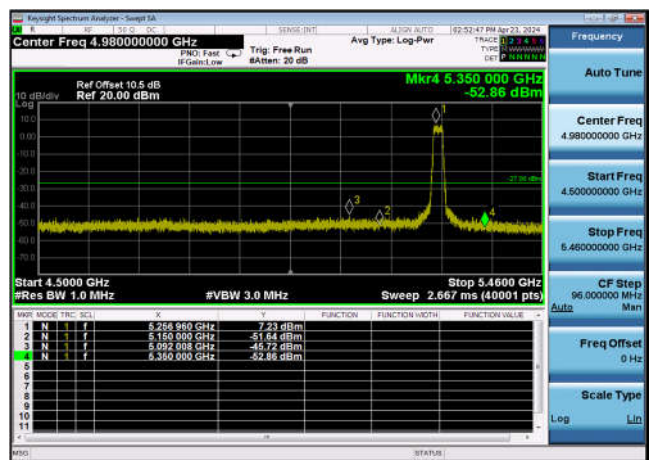
U-NII-2a Band Edge-802.11a(20MHz)
,5320MHz,Ant1



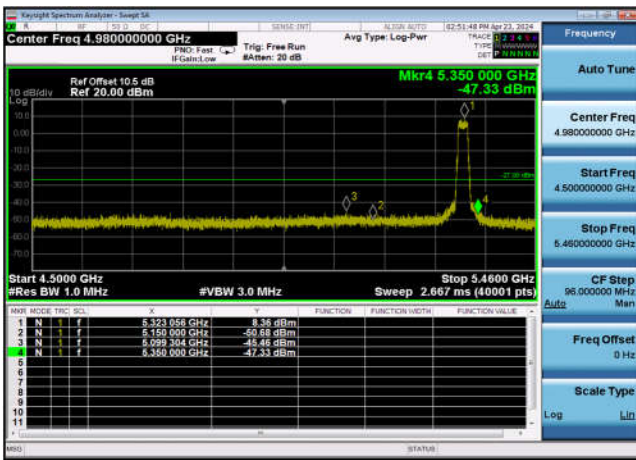
U-NII-2a Band Edge-802.11ac(160MHz)
,5250MHz,Ant1



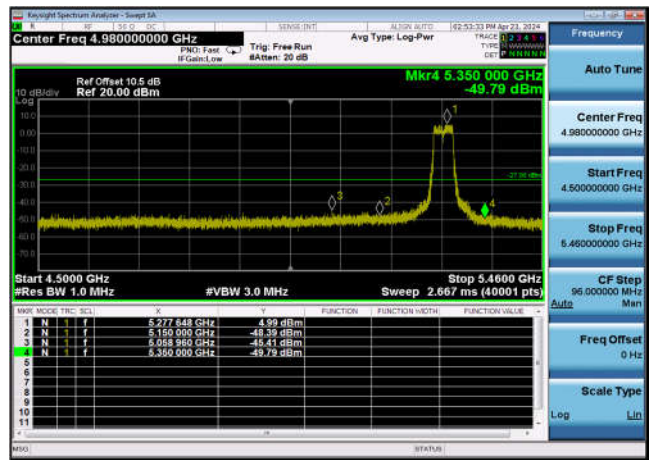
U-NII-2a Band Edge-802.11ac(20MHz)
,5260MHz,Ant1



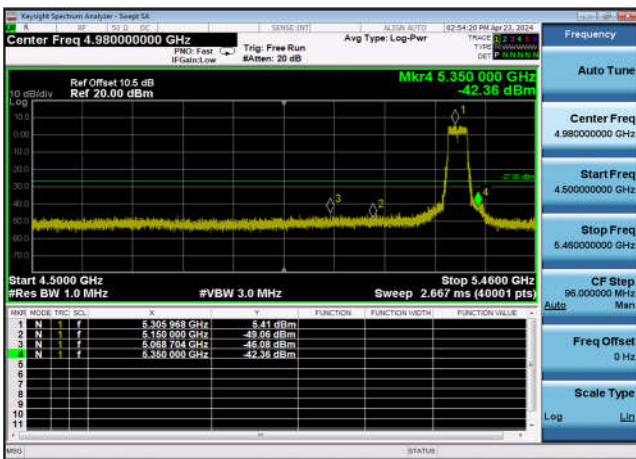
U-NII-2a Band Edge-802.11ac(20MHz)
,5320MHz,Ant1



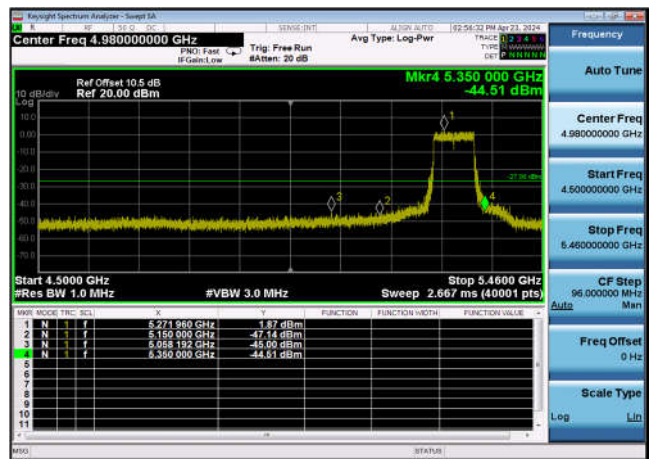
U-NII-2a Band Edge-802.11ac(40MHz)
,5270MHz,Ant1



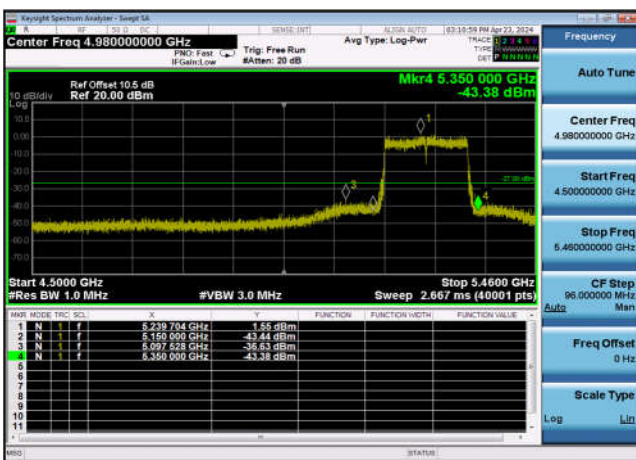
U-NII-2a Band Edge-802.11ac(40MHz)
,5310MHz,Ant1



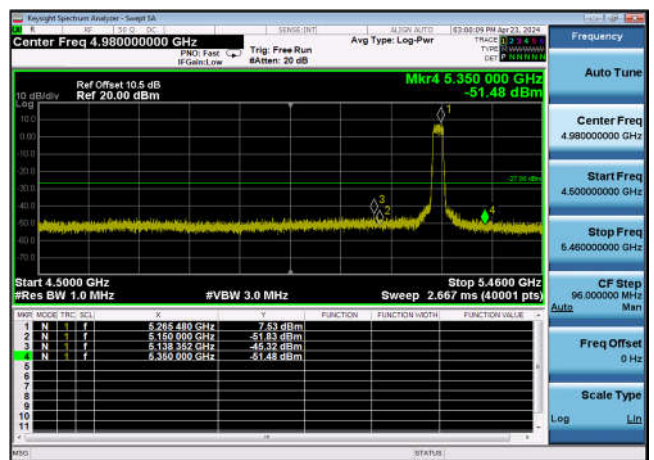
U-NII-2a Band Edge-802.11ac(80MHz)
,5290MHz,Ant1



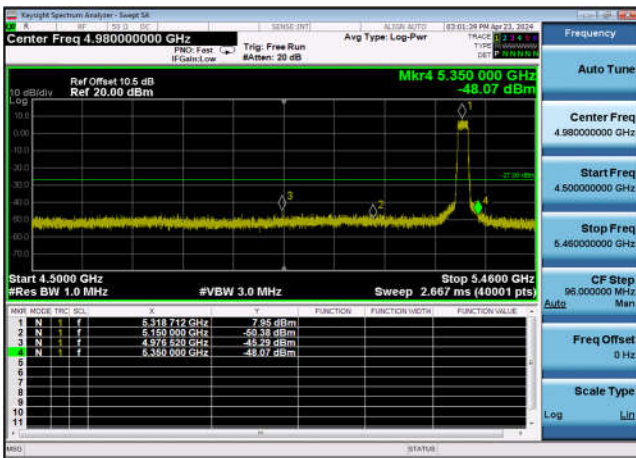
U-NII-2a Band Edge-802.11ax(160MHz)
,5250MHz,Ant1



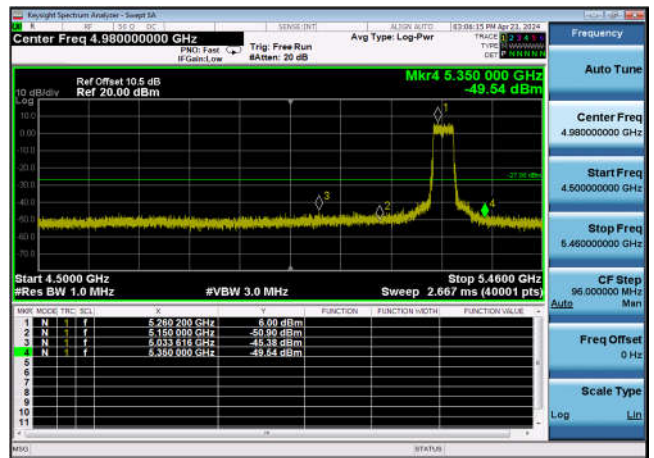
U-NII-2a Band Edge-802.11ax(20MHz)
,5260MHz,Ant1



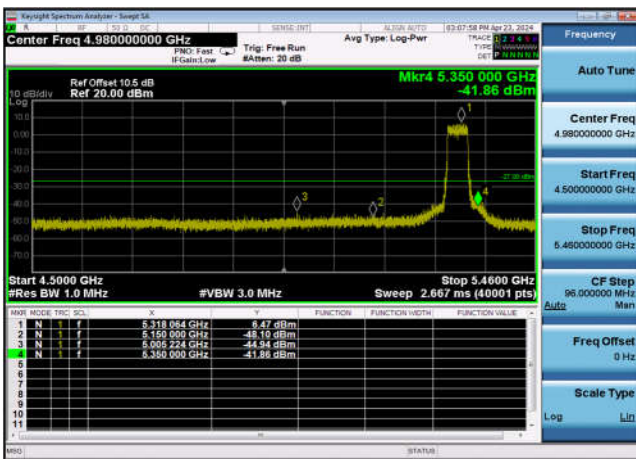
U-NII-2a Band Edge-802.11ax(20MHz)
,5320MHz,Ant1



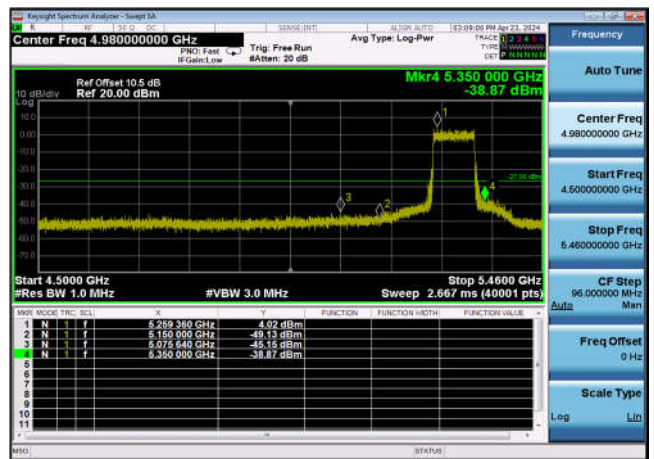
U-NII-2a Band Edge-802.11ax(40MHz)
,5270MHz,Ant1



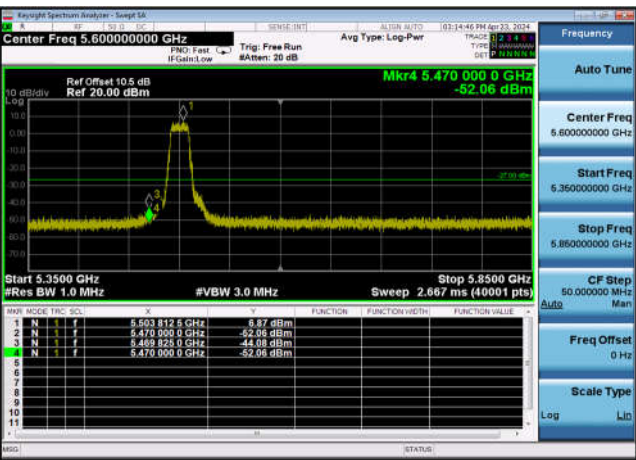
U-NII-2a Band Edge-802.11ax(40MHz)
,5310MHz,Ant1



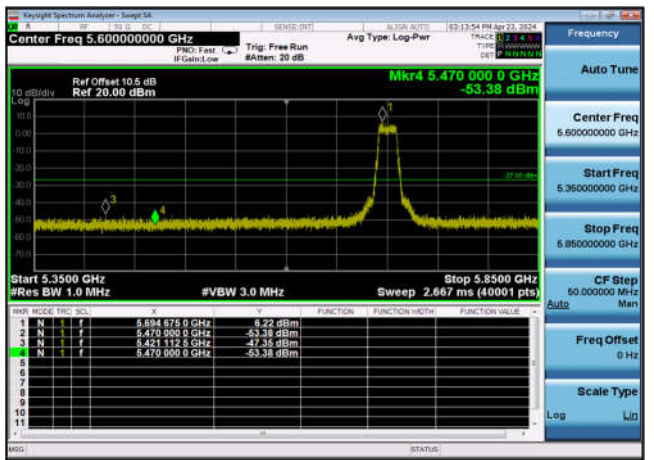
U-NII-2a Band Edge-802.11ax(80MHz)
,5290MHz,Ant1



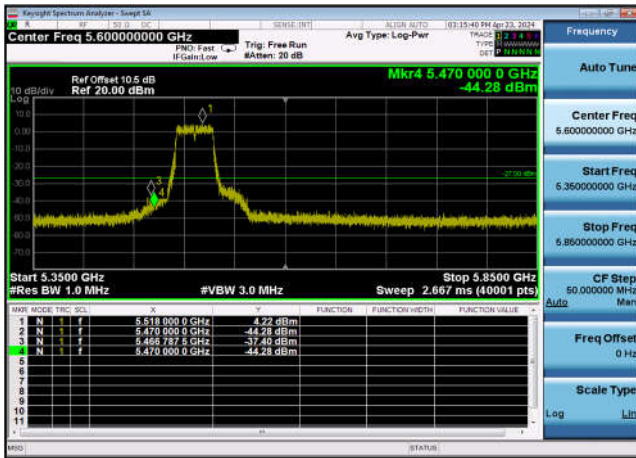
U-NII-2c Band Edge-802.11n(20MHz)
,5500MHz,Ant1



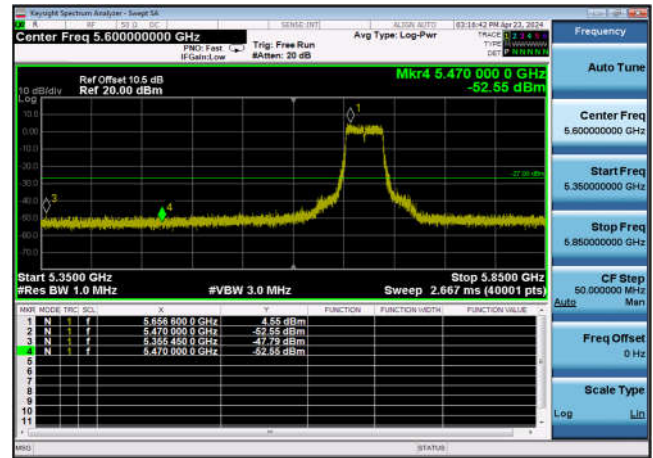
U-NII-2c Band Edge-802.11n(20MHz)
,5700MHz,Ant1



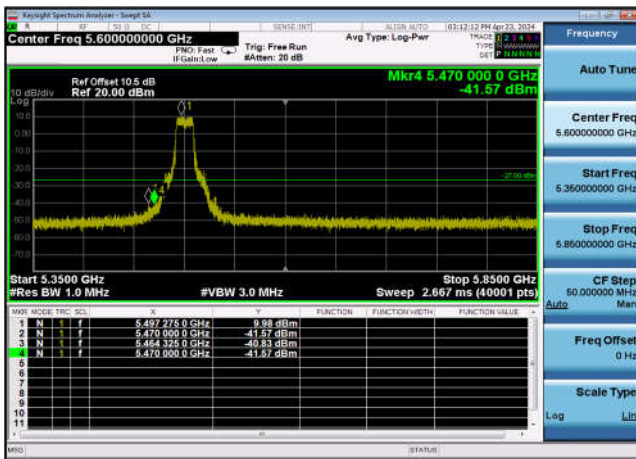
U-NII-2c Band Edge-802.11n(40MHz)
,5510MHz,Ant1



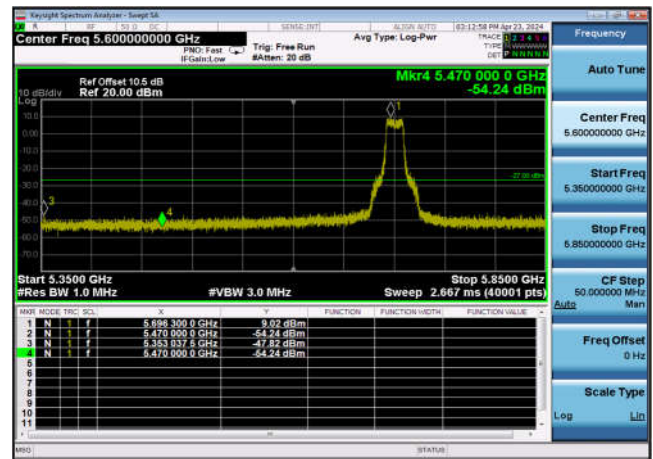
U-NII-2c Band Edge-802.11n(40MHz)
,5670MHz,Ant1



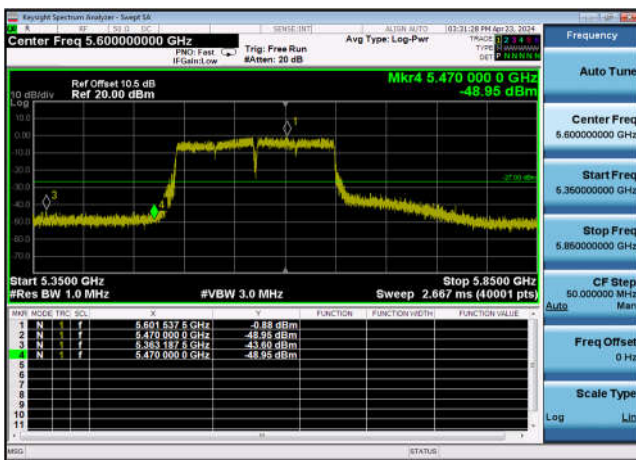
U-NII-2c Band Edge-802.11a(20MHz)
,5500MHz,Ant1



U-NII-2c Band Edge-802.11a(20MHz)
,5700MHz,Ant1



U-NII-2c Band Edge-802.11ac(160MHz)
,5570MHz,Ant1



U-NII-2c Band Edge-802.11ac(20MHz)
,5500MHz,Ant1

