

Report No.: XEWA2309000067RG03

Rev.: 01

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### **TEST REPORT**

Application No.: XEWA2309000067RG

**Applicant:** Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Mich and Bistoich Changhai China 202022

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

**EUT Description:** Wi-Fi & Bluetooth Module

Model No.: FC65E

Trade Mark: Quectel

FCC ID: XMR2023FC65E

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

**Date of Receipt:** 2023/09/04

**Date of Test:** 2023/09/26 to 2023/10/09

**Date of Issue:** 2023/10/26

Test Result : PASS \*

Authorized Signature:

Peter Tan Regulatory Technical Manager



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10086 t (86–29) 6282 7885 10086 t (86–29) 6282 7885

<sup>\*</sup> In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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### 1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/10/26		Original	

Prepared By	Leah chen	
	(Leah Chen) / Test Engineer	
Checked By	(Andy Yao) /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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#### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:  Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tia Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Jacky Xue

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### •A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

#### • FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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### 3.4 General Description of EUT

EUT Description:	Wi-Fi & Bluet	Wi-Fi & Bluetooth Module		
Model No.:	FC65E			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	1			
Power Supply:	DC 2V			
SN:	E1N23B1080	000009		
Operation Fraguency	802.11b/g/n(l	HT20)/ax(HE20):	2412MHz to 2462MHz	
Operation Frequency:	802.11n(HT4	0)/ax(HE40):	2422MHz to 2452MHz	
	802.11b:	DSSS (DBPSK, DQPSK	, CCK)	
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 1	6QAM, 64QAM)	
	802.11ax: OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QA 1024QAM)		QPSK, 16QAM, 64QAM, 256QAM,	
Number of Channels:		HT20)/ax(HE20): 11 0)/ax(HE40): 7		
Channel Spacing:	5MHz			
	SISO	802.11b/g/n/ax		
Smart System:	⊠ MIMO	802.11n/ax: 2Tx & 2Rx		
	□ Diversity	802.11b/g: 2Tx & 2Rx		
Antenna Type:	⊠ External,	☐ Integrated		
	0.73dBi(Ant0	); 0.73dBi(Ant1)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.2dB			
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	Operation Frequency of each channel (802.11b/g/n HT20 /ax HE20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
	Oper	ation Freque	ncy of each c	hannel (802.	11n HT40 /ax	HE40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

#### Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20) /ax (HE20)	Frequency for 802.11n (HT40) /ax(HE40)		
The Lowest channel	2412MHz	2422MHz		
The Middle channel	2437MHz	2437MHz		
The Highest channel	2462MHz	2452MHz		



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#### 3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(℃)	Voltage(V)	
NTNV	22~25	2	

Remark:

NV: Normal Voltage NT: Normal Temperature

### 3.6 Description of Support Units

Description	Manufacturer	Model No.			
Mother board	QUECTEL	5G-EVB Q1-A7138			
Adapter	Shenzhen Keyu Power Supply Techology Co.,Ltd	KA1801A-0503000DE			
Remark: all above the information of table are provided by client.					

### 3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11b	1	2Mbps
802.11g	1	12Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	1	MCS0 (27 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	1	MCS0 (32 Mbps)



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#### 4 Test results and Measurement Data

### 4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna is 0.73dBi(Ant0); 0.73dBi(Ant1).\*

\*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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#### Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices, Array Gain = 10 log(N<sub>ANT</sub>/N<sub>SS</sub> = 1) dB.
- For power measurements on IEEE 802.11 devices:
   Array Gain = 0 dB (i.e., no array gain) for N<sub>ANT</sub> ≤ 4;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

#### The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain0	ANT Gain1	Power DG	PSD DG	Power Limit	PSD Limit
(dBi)	(dBi)	(dBi)	(dBi)	Reduction(dB)	Reduction(dB)
0.73	0.73	0.73	3.74	0	0

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0



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#### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10-2020 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz				
Limit:		Limit (d	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	The mains terminal disturbance voltage test was conducted in a shielde room.					
	2) The EUT was connected to AC power source through a LISN 1					
	Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ line impedance. The power cables of all other units of the EUT were connect a second LISN 2, which was bonded to the ground reference					
	1 '	s the LISN 1 for the unit being	_			
	· '	ultiple socket outlet strip was used to connect multiple power cables to a ngle LISN provided the rating of the LISN was not exceeded.				
	, ,	s rating of the LISN was not ex s placed upon a non-metallic				
	'	And for floor-standing arrang				
	placed on the horizontal					
	4) The test was perform	ed with a vertical ground refe	rence plane. The rear			
		n from the vertical ground ref	•			
	vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was					
		nts of the LISN 1 and the EUT				
	· ·	equipment was at least 0.8 m				
		num emission, the relative po				
	equipment and all of the interface cables must be changed according to					
	ANSI C63.10-2020 on conducted measurement.					



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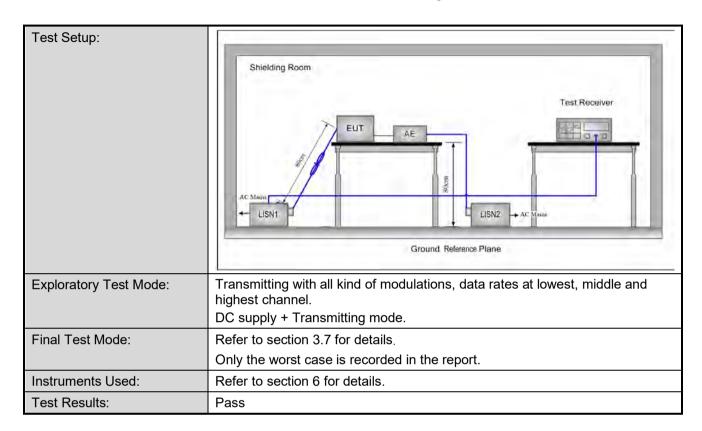
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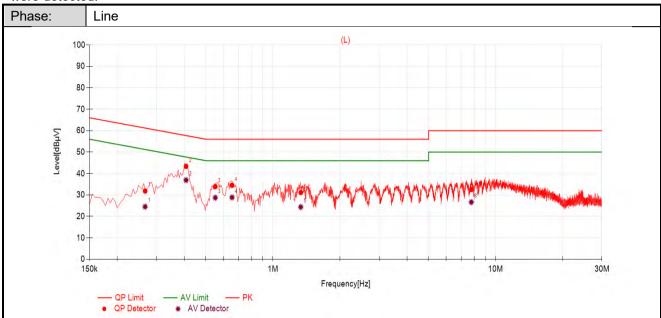
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#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data l	List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2666	9.89	21.96	31.85	61.22	29.37	14.64	24.53	51.22	26.69	PASS
2	0.4071	9.85	33.51	43.36	57.71	14.35	27.08	36.93	47.71	10.78	PASS
3	0.5507	9.91	23.99	33.90	56.00	22.10	18.81	28.72	46.00	17.28	PASS
4	0.6549	9.94	24.57	34.51	56.00	21.49	18.93	28.87	46.00	17.13	PASS
5	1.3331	9.83	21.34	31.17	56.00	24.83	14.55	24.38	46.00	21.62	PASS
6	7.7761	9.91	22.67	32.58	60.00	27.42	16.74	26.65	50.00	23.35	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB $\mu$ V] Value[dB $\mu$ V]



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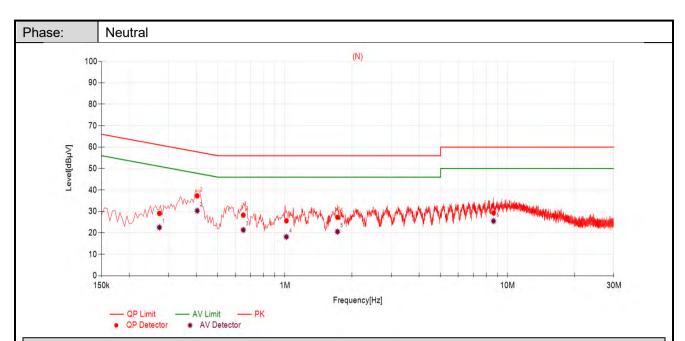
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Final	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2729	9.80	19.29	29.09	61.03	31.94	12.77	22.57	51.03	28.46	PASS
2	0.4035	9.81	27.45	37.26	57.78	20.52	20.51	30.32	47.78	17.46	PASS
3	0.6497	9.85	18.45	28.30	56.00	27.70	11.51	21.36	46.00	24.64	PASS
4	1.0146	9.81	15.83	25.64	56.00	30.36	8.34	18.15	46.00	27.85	PASS
5	1.7216	9.84	17.43	27.27	56.00	28.73	10.73	20.57	46.00	25.43	PASS
6	8.6438	10.08	19.23	29.31	60.00	30.69	15.43	25.51	50.00	24.49	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB $\mu$ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[ $dB\mu V$ ] Value[ $dB\mu V$ ]



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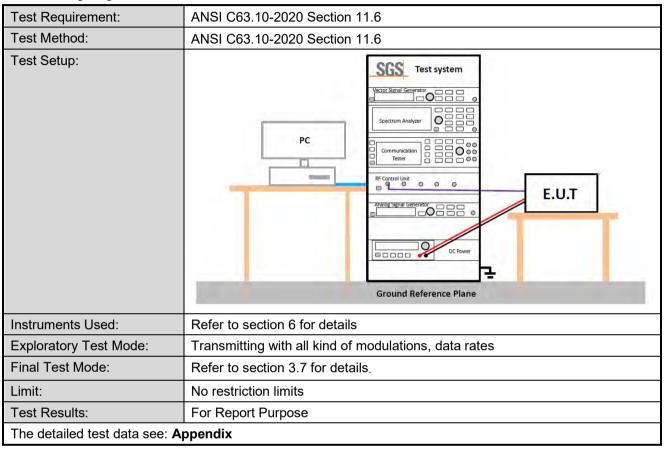


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### 4.3 Duty Cycle





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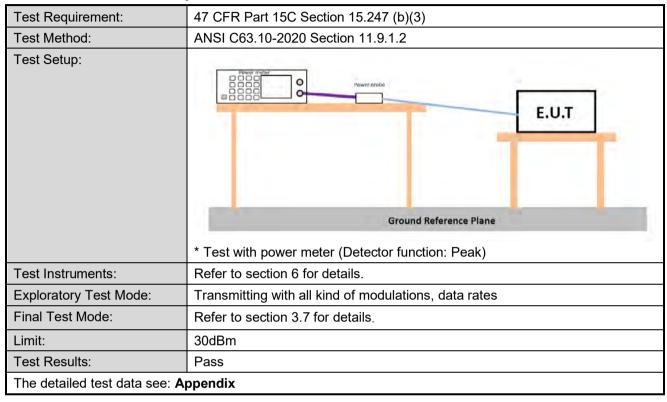


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### 4.4 Conducted Output Power





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### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3			
Test Setup:	PC  Spectrum Analyzer  Spectrum Analyzer  Communication  Tester  RF Control Unit  DC Power  Ground Reference Plane			
Instruments Used:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
Limit:	≥ 500 kHz for DTS Bandwidth			
Test Results:	Pass			
The detailed test data see: Ap	pendix			



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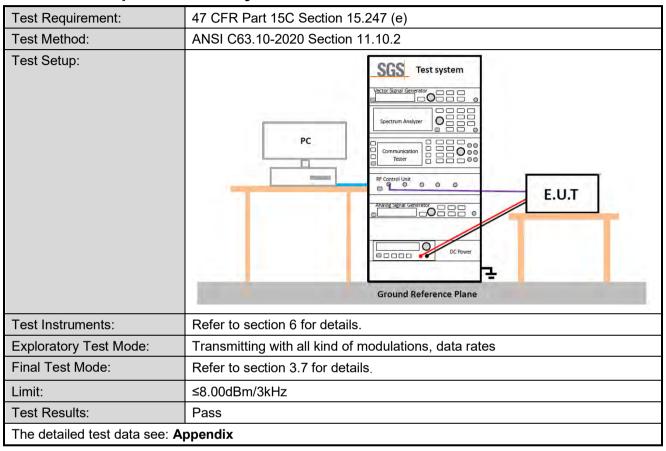


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### 4.6 Power Spectral Density





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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10-2020 Section 11.11		
Test Setup:	PC  Spectrum Analyzer  Communication  Fe Control Unit  Avaing Mena Teerenator  DC Power  Ground Reference Plane		
Instruments Used:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		
The detailed test data see: A	ppendix		



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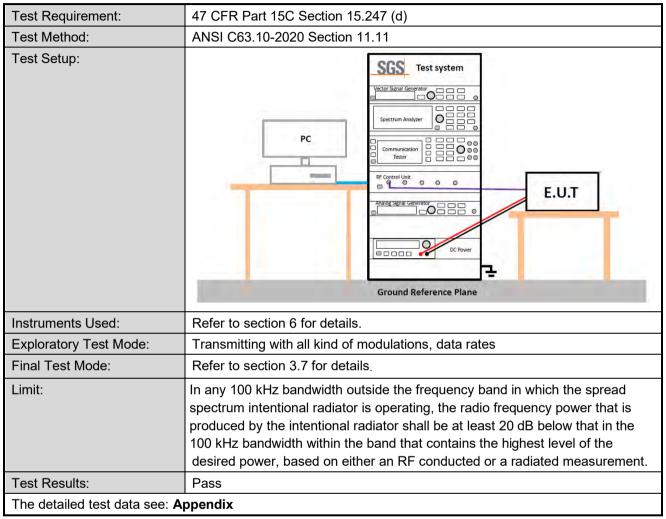


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### 4.8 RF Conducted Spurious Emissions





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### 4.9 Radiated Spurious Emissions

47 CFR Part 15C Section 15.209 and 15.205				
ANSI C63.10-2020 Secti	on 11.12			
Measurement Distance:	3m (Semi-Anechoi	ic Chamber)		
9kHz ~ 25GHz				
Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Abovo 1CUz	Peak	1MHz	3MHz	Peak
Above IGHZ	Peak	1MHz	3MHz	Peak
Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak				
	ANSI C63.10-2020 Section Measurement Distance: 9kHz ~ 25GHz Frequency 0.009MHz-0.090MHz 0.009MHz-0.090MHz 0.090MHz-0.110MHz 0.110MHz-0.490MHz 0.110MHz-0.490MHz 0.490MHz -30MHz 30MHz-1GHz Above 1GHz Frequency 0.009MHz-0.490MHz 1.705MHz 1.705MHz-30MHz 30MHz-1-705MHz 1.705MHz-30MHz 216MHz-960MHz 216MHz-960MHz P60MHz-1GHz Above 1GHz Remark: 15.35(b),Unless emissions is 20dB above applicable to the equipm	ANSI C63.10-2020 Section 11.12           Measurement Distance: 3m (Semi-Anechology)           9kHz ~ 25GHz           Frequency         Detector           0.009MHz-0.090MHz         Peak           0.009MHz-0.090MHz         Average           0.090MHz-0.110MHz         Quasi-peak           0.110MHz-0.490MHz         Peak           0.110MHz-0.490MHz         Average           0.490MHz-30MHz         Quasi-peak           Peak         Peak           Peak         Peak           Peak         Peak           Peak         Peak           10.009MHz-1GHz         2400/F(kHz)           1.705MHz-30MHz         30           30MHz-88MHz         100           88MHz-216MHz         150           216MHz-960MHz         200           960MHz-1GHz         500           Above 1GHz         500           Remark: 15.35(b),Unless otherwise specific emissions is 20dB above the maximum per	ANSI C63.10-2020 Section 11.12           Measurement Distance: 3m (Semi-Anechoic Chamber)           9kHz ~ 25GHz           Frequency         Detector         RBW           0.009MHz-0.090MHz         Peak         10kHz           0.009MHz-0.090MHz         Average         10kHz           0.090MHz-0.110MHz         Quasi-peak         10kHz           0.110MHz-0.490MHz         Peak         10kHz           0.110MHz-0.490MHz         Average         10kHz           0.490MHz -30MHz         Quasi-peak         120kHz           Above 1GHz         Peak         1MHz           Peak         1MHz         2400Hz           Peak         1MHz         1           Peak         1MHz         1           Peak         1MHz         1           Peak	ANSI C63.10-2020 Section 11.12           Measurement Distance: 3m (Semi-Anechoic Chamber)           9kHz ~ 25GHz           Frequency         Detector         RBW         VBW           0.009MHz-0.090MHz         Peak         10kHz         30kHz           0.009MHz-0.090MHz         Average         10kHz         30kHz           0.090MHz-0.110MHz         Quasi-peak         10kHz         30kHz           0.110MHz-0.490MHz         Peak         10kHz         30kHz           0.110MHz-0.490MHz         Average         10kHz         30kHz           0.490MHz-30MHz         Quasi-peak         120kHz         300kHz           Above 1GHz         Peak         1MHz         3MHz           Frequency         Field strength (microvolt/meter)         Climit (dBuV/m)         Remark           0.009MHz-0.490MHz         2400/F(kHz)         -         -           0.490MHz-1.705MHz         24000/F(kHz)         -         -           1.705MHz-30MHz         30         -         -           30MHz-88MHz         100         40.0         Quasi-peak           216MHz-960MHz         200         46.0         Quasi-peak           960MHz-1GHz         500         54.0         Quasi



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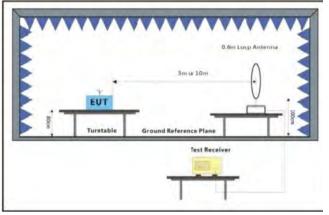


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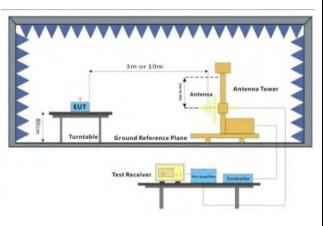


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

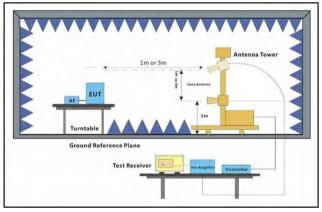


Figure 3. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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.
- e. 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and



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	the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.			
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.			
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.			
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.			
	i. Repeat above procedures until all frequencies measured was complete.			
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported			
	<ul> <li>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</li> </ul>			
	<ol> <li>At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.</li> </ol>			
Test Configuration:	Measurements below 30MHz			
	• RBW = 10 kHz			
	• VBW = 30 kHz			
	Detector = Peak & Average & Quasi-peak			
	Trace mode = max hold			
	Measurements Below 1000MHz			
	• RBW = 120 kHz			
	• VBW = 300 kHz			
	Detector = Quasi-peak			
	Trace mode = max hold			
	Peak Measurements Above 1000 MHz			
	• RBW = 1 MHz			
	• VBW ≥ 3 MHz			
	Detector = Peak			
	Sweep time = auto			
	Trace mode = max hold			
	Average Measurements Above 1000MHz			
	RRW = 1 MHz			
	1.011			
	VBW = 10 Hz, when duty cycle is no less than 98 percent.  VBW > 1/T, when duty cycle is less than 98 percent where T is the minimum.			
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum			
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.  DC supply + Transmitting mode.			
Final Test Mode:	Refer to section 3.7 for details.			
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.			



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Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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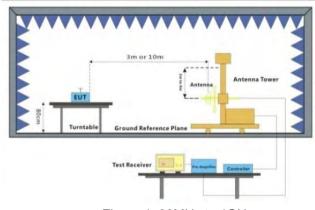
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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section	11.12			
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	per)		
Limit:	Frequency	Limit (dBuV/m)	Remark		
	30MHz-88MHz	40.0	Quasi-peak		
	88MHz-216MHz	43.5	Quasi-peak		
	216MHz-960MHz	46.0	Quasi-peak		
	960MHz-1GHz	54.0	Quasi-peak		
	Above 1GHz	54.0	Average Value		
	Above IGHZ	74.0	Peak Value		

#### Test Setup:



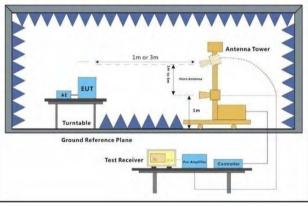


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	<ul> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height 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.</li> <li>e. 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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel, the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Test Configuration:	j. Repeat above procedures until all frequencies measured was complete.  Measurements Below 1000MHz
165t Comiguration.	RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent.  VBW > 1/T, when duty cycle is less than 98 percent where T is the minimum.
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	DC supply + Transmitting mode.



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Final Test Mode:	Refer to section 3.7 for details.		
Instruments Used:	Refer to section 6 for details.		
Test Results:	Pass		
The detailed test data see	The detailed test data see: Appendix		



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup> GHz		
2	Duty cycle	± 0.37%		
3	Occupied Bandwidth	± 0.2%		
4	RF conducted power	± 0.21dB		
5	RF power density	± 2.84dB		
6	Conducted Spurious emissions	± 0.75dB		
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
8		± 4.9dB (30MHz to 1GHz)		
	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15	
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15	
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR	
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR	
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/08/30	2024/08/29	
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15	
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03	

CE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29	



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14	
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29	
Amplifier Shanghai YX28980		YX28980930	XAW01-41-06	2023/08/30	2024/08/29	
Temperature and humidity meter			2024/09/03			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25	



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### 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# **Appendix**



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#### DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant0	2412	8.600	2407.440	2416.040	0.5	PASS
	Ant1	2412	8.000	2408.000	2416.000	0.5	PASS
	Ant0	2437	7.040	2433.440	2440.480	0.5	PASS
	Ant1	2437	7.960	2433.040	2441.000	0.5	PASS
	Ant0	2462	7.560	2458.440	2466.000	0.5	PASS
	Ant1	2462	8.080	2458.440	2466.520	0.5	PASS
	Ant0	2412	16.040	2403.840	2419.880	0.5	PASS
	Ant1	2412	15.720	2404.400	2420.120	0.5	PASS
11g-CDD	Ant0	2437	15.680	2428.840	2444.520	0.5	PASS
Tig-CDD	Ant1	2437	15.600	2428.840	2444.440	0.5	PASS
	Ant0	2462	14.520	2455.640	2470.160	0.5	PASS
	Ant1	2462	15.680	2454.440	2470.120	0.5	PASS
	Ant0	2412	17.160	2403.200	2420.360	0.5	PASS
	Ant1	2412	17.280	2403.480	2420.760	0.5	PASS
11n20MIMO	Ant0	2437	16.280	2428.200	2444.480	0.5	PASS
TITIZUIVIIIVIO	Ant1	2437	16.920	2428.200	2445.120	0.5	PASS
	Ant0	2462	16.280	2454.480	2470.760	0.5	PASS
	Ant1	2462	17.640	2453.200	2470.840	0.5	PASS
	Ant0	2422	32.880	2403.840	2436.720	0.5	PASS
	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
11n40MIMO	Ant0	2437	36.240	2418.840	2455.080	0.5	PASS
111140IVIIIVIO	Ant1	2437	33.440	2418.840	2452.280	0.5	PASS
	Ant0	2452	36.320	2433.840	2470.160	0.5	PASS
	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
11ax20MIMO	Ant0	2412	18.720	2402.480	2421.200	0.5	PASS
	Ant1	2412	18.600	2402.720	2421.320	0.5	PASS
	Ant0	2437	18.320	2427.720	2446.040	0.5	PASS
	Ant1	2437	18.680	2427.520	2446.200	0.5	PASS
	Ant0	2462	18.760	2452.760	2471.520	0.5	PASS
	Ant1	2462	17.200	2454.040	2471.240	0.5	PASS
11ax40MIMO	Ant0	2422	36.560	2402.960	2439.520	0.5	PASS
	Ant1	2422	37.680	2403.200	2440.880	0.5	PASS
	Ant0	2437	38.000	2417.880	2455.880	0.5	PASS
	Ant1	2437	37.200	2418.040	2455.240	0.5	PASS
	Ant0	2452	33.520	2436.960	2470.480	0.5	PASS
	Ant1	2452	38.000	2432.960	2470.960	0.5	PASS



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#### **Test Graphs**





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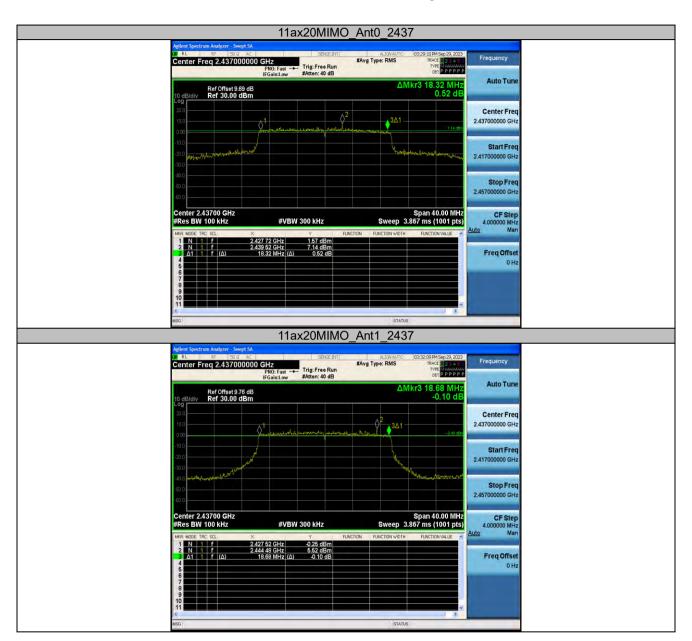
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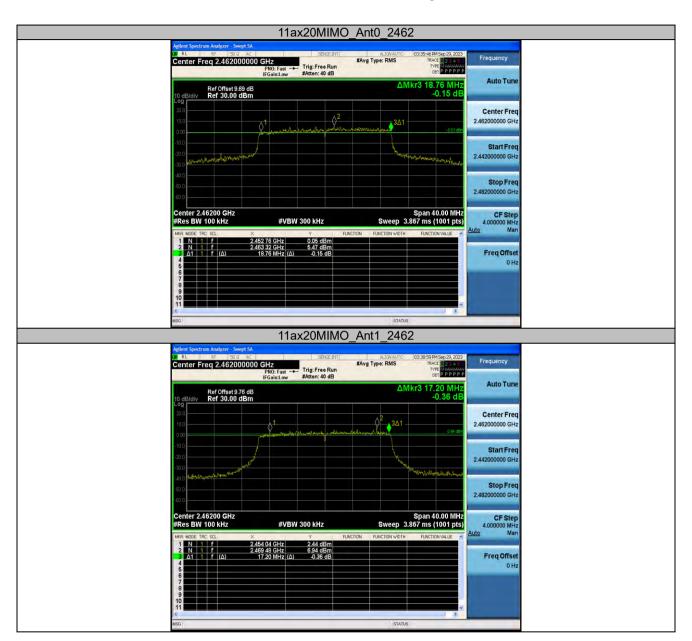
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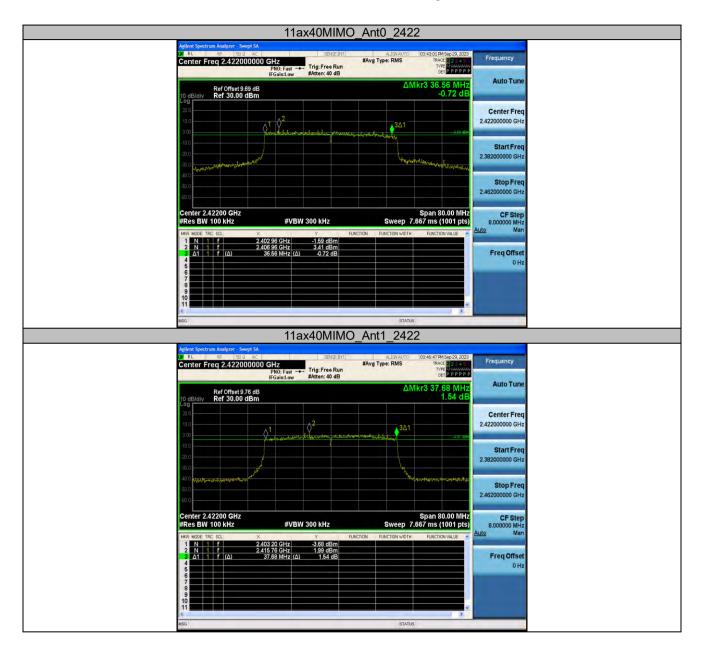
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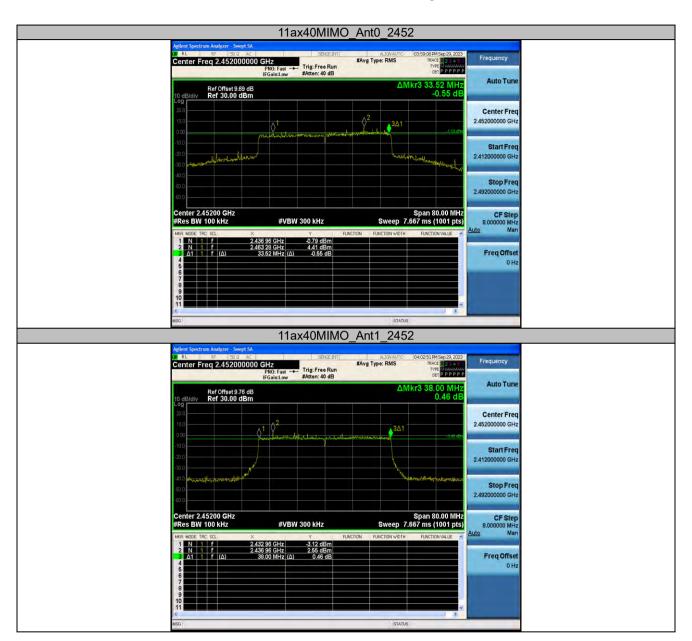
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# 99% Occupied Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b-CDD	Ant0	2412	13.872	2404.8756	2418.7476	I
	Ant1	2412	13.374	2405.3647	2418.7387	
	Ant0	2437	12.672	2430.5567	2443.2287	
110-000	Ant1	2437	13.219	2430.2243	2443.4433	
	Ant0	2462	12.236	2456.1744	2468.4104	
	Ant1	2462	13.237	2455.4776	2468.7146	
	Ant0	2412	16.695	2403.5882	2420.2832	
	Ant1	2412	16.562	2403.7591	2420.3211	
11 a CDD	Ant0	2437	17.303	2428.2948	2445.5978	
11g-CDD	Ant1	2437	16.519	2428.6940	2445.2130	
	Ant0	2462	16.686	2453.7337	2470.4197	
	Ant1	2462	16.554	2453.7705	2470.3245	
	Ant0	2412	17.904	2402.9642	2420.8682	
	Ant1	2412	17.812	2403.1199	2420.9319	
11n20MIMO	Ant0	2437	18.370	2427.7785	2446.1485	
TINZUMIMO	Ant1	2437	17.755	2428.0621	2445.8171	For
	Ant0	2462	17.895	2453.1270	2471.0220	
	Ant1	2462	17.745	2453.1594	2470.9044	
	Ant0	2422	36.256	2403.7474	2440.0034	Report
	Ant1	2422	36.044	2404.0045	2440.0485	Purpose
44 - 40 MINAO	Ant0	2437	36.551	2418.7154	2455.2664	
11n40MIMO	Ant1	2437	36.137	2418.8786	2455.0156	
	Ant0	2452	36.612	2433.8006	2470.4126	
	Ant1	2452	36.328	2433.8567	2470.1847	
	Ant0	2412	19.121	2402.3698	2421.4908	
	Ant1	2412	19.056	2402.5066	2421.5626	
44 000 410 40	Ant0	2437	19.244	2427.3531	2446.5971	
11ax20MIMO	Ant1	2437	18.980	2427.4434	2446.4234	
	Ant0	2462	19.080	2452.5452	2471.6252	
	Ant1	2462	19.014	2452.5255	2471.5395	
	Ant0	2422	37.860	2402.9675	2440.8275	
	Ant1	2422	37.823	2403.1126	2440.9356	
11ax40MIMO	Ant0	2437	38.130	2417.9659	2456.0959	
	Ant1	2437	37.787	2418.0608	2455.8478	
	Ant0	2452	38.187	2433.0024	2471.1894	
	Ant1	2452	37.925	2433.0337	2470.9587	



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#### **Test Graphs**





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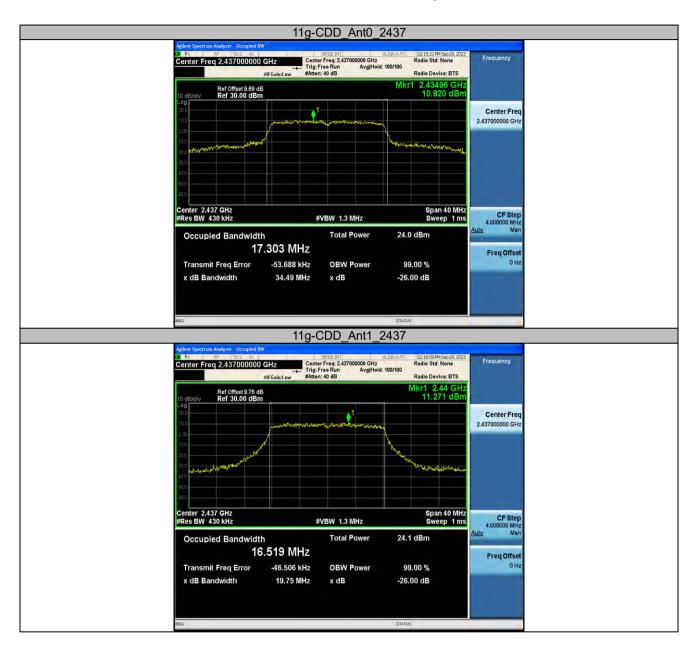
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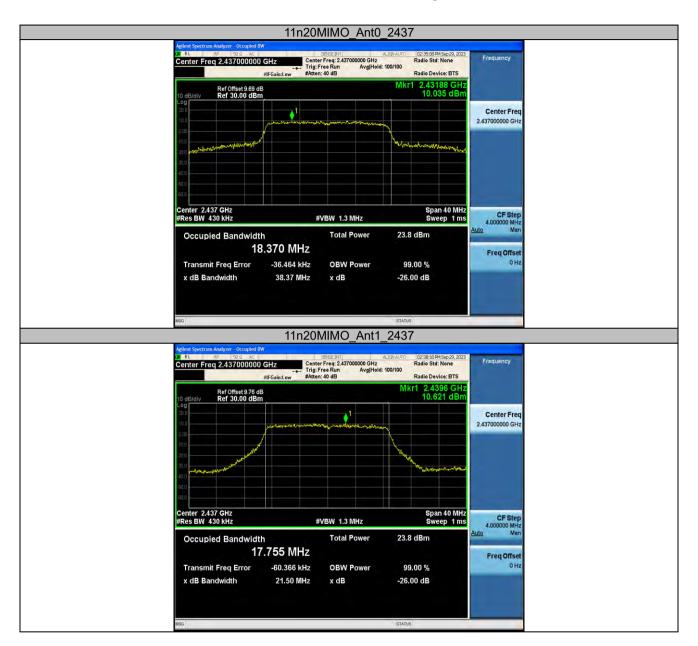
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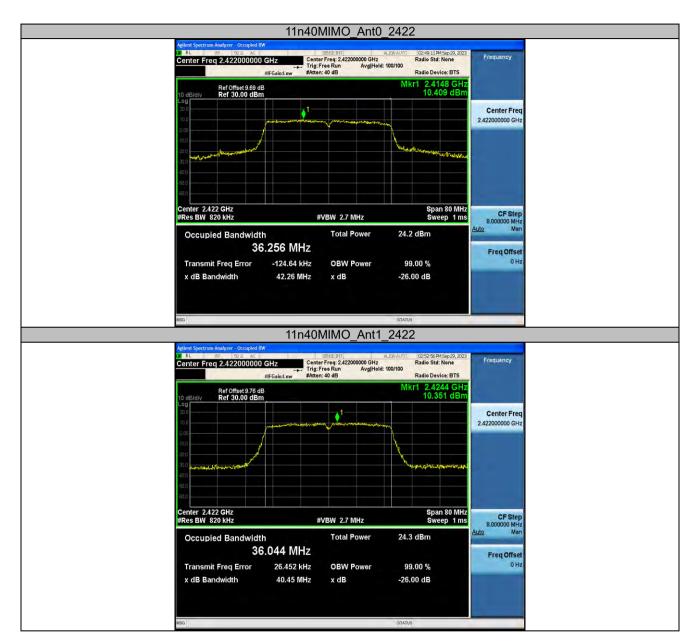
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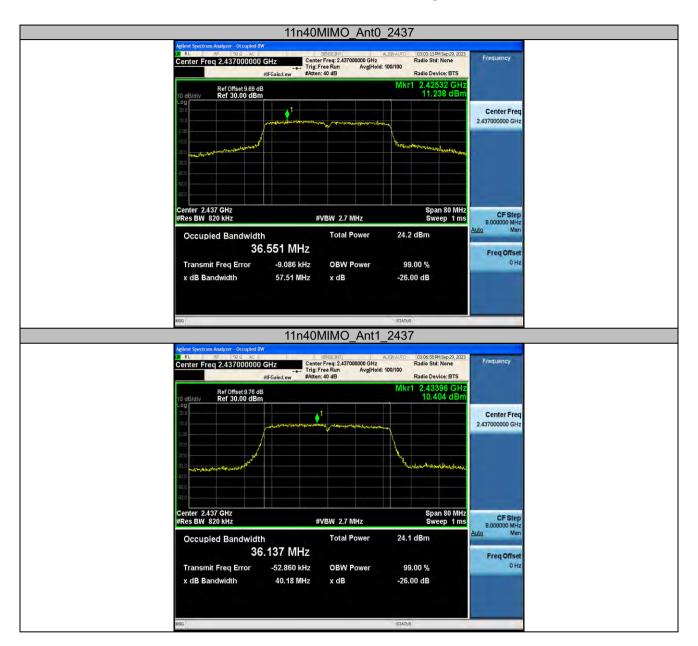
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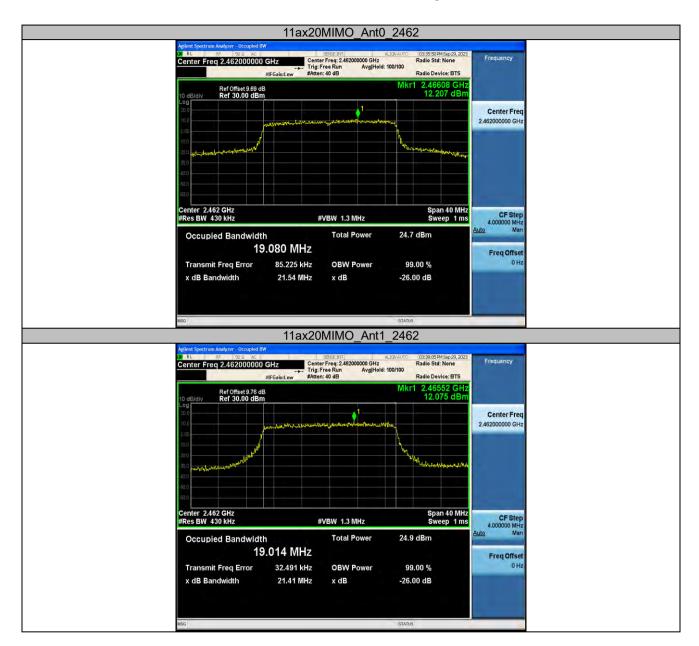
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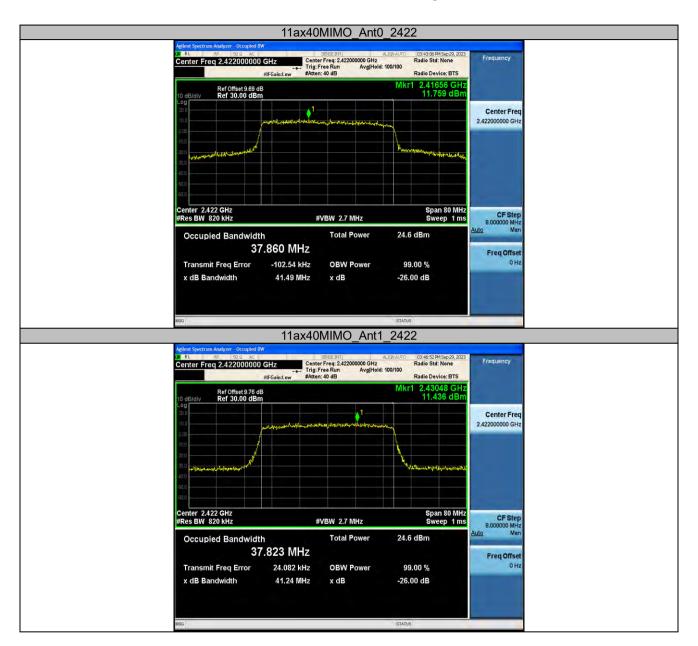
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#### Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
	Ant0	2412	20.07	≤30.00	PASS
	Ant1	2412	19.87	≤30.00	PASS
	total	2412	22.98	≤30.00	PASS
	Ant0	2437	20.36	≤30.00	PASS
11b	Ant1	2437	19.51	≤30.00	PASS
	total	2437	22.97	≤30.00	PASS
	Ant0	2462	20.04	≤30.00	PASS
	Ant1	2462	19.65	≤30.00	PASS
	total	2462	22.86	≤30.00	PASS
	Ant0	2412	22.81	≤30.00	PASS
	Ant1	2412	22.12	≤30.00	PASS
	total	2412	25.49	≤30.00	PASS
	Ant0	2437	22.05	≤30.00	PASS
11g-CDD	Ant1	2437	22.81	≤30.00	PASS
Ŭ	total	2437	25.46	≤30.00	PASS
	Ant0	2462	22.35	≤30.00	PASS
	Ant1	2462	23.02	≤30.00	PASS
	total	2462	25.71	≤30.00	PASS
	Ant0	2412	21.53	≤30.00	PASS
	Ant1	2412	23.01	≤30.00	PASS
	total	2412	25.34	≤30.00	PASS
	Ant0	2437	22.52	≤30.00	PASS
11n20MIMO	Ant1	2437	22.02	≤30.00	PASS
	total	2437	25.29	≤30.00	PASS
	Ant0	2462	22.48	≤30.00	PASS
	Ant1	2462	22.78	≤30.00	PASS
	total	2462	25.64	≤30.00	PASS
	Ant0	2422	22.39	≤30.00	PASS
	Ant1	2422	21.84	≤30.00	PASS
	total	2422	25.13	≤30.00	PASS
	Ant0	2437	21.63	≤30.00	PASS
11n40MIMO	Ant1	2437	22.21	≤30.00	PASS
	total	2437	24.94	≤30.00	PASS
	Ant0	2452	22.38	≤30.00	PASS
	Ant1	2452	21.65	≤30.00	PASS
	total	2452	25.04	≤30.00	PASS
	Ant0	2412	22.28	≤30.00	PASS
	Ant1	2412	23.54	≤30.00	PASS
	total	2412	25.97	≤30.00	PASS
	Ant0	2437	23.80	≤30.00	PASS
11ax20MIMO	Ant1	2437	22.63	≤30.00	PASS
	total	2437	26.26	≤30.00	PASS
	Ant0	2462	23.43	≤30.00	PASS
	Ant1	2462	22.87	≤30.00	PASS
	total	2462	26.17	≤30.00	PASS
	Ant0	2422	22.47	≤30.00	PASS
11ax40MIMO	Ant1	2422	21.63	≤30.00	PASS
-	total	2422	25.08	≤30.00	PASS



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Ant0	2437	21.58	≤30.00	PASS
Ant1	2437	22.45	≤30.00	PASS
total	2437	25.05	≤30.00	PASS
Ant0	2452	22.54	≤30.00	PASS
Ant1	2452	22.01	≤30.00	PASS
total	2452	25.29	≤30.00	PASS

#### **Test Result Peak for AX Part RU**

Test	Fragueney [MU=1	Ru	Ru	ANT0 Peak	ANT1 Peak	Total Peak	Conducted	\/ordist
Mode	Frequency[MHz]	Size	Index	Power[dBm]	Power[dBm]	Power[dBm]	Limit[dBm]	Verdict
		26Tone	RU0	21.57	21.81	24.70	≤30.00	PASS
	2412	52Tone	RU37	21.68	21.35	24.53	≤30.00	PASS
		106Tone	RU53	21.87	21.90	24.90	≤30.00	PASS
	2437	26Tone	RU4	21.28	21.39	24.35	≤30.00	PASS
11ax20MIMO		52Tone	RU38	21.32	21.36	24.35	≤30.00	PASS
		106Tone	RU53	21.15	21.42	24.30	≤30.00	PASS
		26Tone	RU8	21.35	21.84	24.61	≤30.00	PASS
	2462	52Tone	RU40	21.39	21.57	24.49	≤30.00	PASS
		106Tone	RU54	21.44	21.53	24.50	≤30.00	PASS
11ax40MIMO	2422	242Tone	RU61	21.03	20.95	24.00	≤30.00	PASS
	2437	242Tone	RU61	21.04	20.78	23.92	≤30.00	PASS
	2452	242Tone	RU62	21.15	21.35	24.26	≤30.00	PASS



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#### Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	Ant0	2412	-4.49	≤8.00	PASS
	Ant1	2412	-4.60	≤8.00	PASS
	total	2412	-1.53	≤8.00	PASS
	Ant0	2437	-4.25	≤8.00	PASS
11b-CDD	Ant1	2437	-4.20	≤8.00	PASS
	total	2437	-1.21	≤8.00	PASS
	Ant0	2462	-4.49	≤8.00	PASS
	Ant1	2462	-4.84	≤8.00	PASS
	total	2462	-1.65	≤8.00	PASS
	Ant0	2412	-8.44	≤8.00	PASS
	Ant1	2412	-8.27	≤8.00	PASS
	total	2412	-5.34	≤8.00	PASS
	Ant0	2437	-8.54	≤8.00	PASS
11g-CDD	Ant1	2437	-8.38	≤8.00	PASS
	total	2437	-5.45	≤8.00	PASS
	Ant0	2462	-7.97	≤8.00	PASS
	Ant1	2462	-7.75	≤8.00	PASS
	total	2462	-4.85	≤8.00	PASS
	Ant0	2412	-7.17	≤8.00	PASS
	Ant1	2412	-7.84	≤8.00	PASS
	total	2412	-4.48	≤8.00	PASS
	Ant0	2437	-8.13	≤8.00	PASS
11n20MIMO	Ant1	2437	-7.59	≤8.00	PASS
	total	2437	-4.84	≤8.00	PASS
	Ant0	2462	-7.26	≤8.00	PASS
	Ant1	2462	-8.04	≤8.00	PASS
	total	2462	-4.62	≤8.00	PASS
	Ant0	2422	-9.85	≤8.00	PASS
	Ant1	2422	-10.24	≤8.00	PASS
	total	2422	-7.03	≤8.00	PASS
	Ant0	2437	-9.24	≤8.00	PASS
11n40MIMO	Ant1	2437	-10.08	≤8.00	PASS
	total	2437	-6.63	≤8.00	PASS
	Ant0	2452	-9.74	≤8.00	PASS
	Ant1	2452	-11.10	≤8.00	PASS
	total	2452	-7.36	≤8.00	PASS
	Ant0	2412	-7.51	≤8.00	PASS
	Ant1	2412	-8.45	≤8.00	PASS
	total	2412	-4.94	≤8.00	PASS
	Ant0	2437	-7.86	≤8.00	PASS
11ax20MIMO	Ant1	2437	-9.07	≤8.00	PASS
	total	2437	-5.41	≤8.00	PASS
	Ant0	2462	-8.09	≤8.00	PASS
	Ant1	2462	-7.64	≤8.00	PASS
Ī	total	2462	-4.85	≤8.00	PASS
110×401410	Ant0	2422	-11.58	≤8.00	PASS
11ax40MIMO	Ant1	2422	-11.03	≤8.00	PASS



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total	2422	-8.29	≤8.00	PASS
Ant0	2437	-10.71	≤8.00	PASS
Ant1	2437	-11.72	≤8.00	PASS
total	2437	-8.18	≤8.00	PASS
Ant0	2452	-11.79	≤8.00	PASS
Ant1	2452	-12.66	≤8.00	PASS
total	2452	-9.19	≤8.00	PASS



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#### **Test Result Peak for AX Part RU**

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
			26Tone	RU0	-5.77	≤8.00	PASS
	Ant0	2412	52Tone	RU37	-8.19	≤8.00	PASS
			106Tone	RU53	-10.53	≤8.00	PASS
			26Tone	RU0	-6.54	≤8.00	PASS
	Ant1	2412	52Tone	RU37	-8.43	≤8.00	PASS
			106Tone	RU53	-11.90	[dBm/3kHz]         Verdict           ≤8.00         PASS           ≤8.00         PASS <td>PASS</td>	PASS
			26Tone	RU0	-3.13	≤8.00	PASS
	total	2412	52Tone	RU37	-5.30	≤8.00	PASS
			106Tone	RU53	-8.15	[dBm/3kHz]         Verdict           ≤8.00         PASS           ≤8.00         PASS <td>PASS</td>	PASS
			26Tone	RU4	-5.97	≤8.00	PASS
	Ant0	2437	52Tone	RU38	-8.01		
			106Tone	RU53	-9.54	≤8.00	PASS
			26Tone	RU4	-6.18	≤8.00	PASS
11ax20MIMO	Ant1	2437	52Tone	RU38	-7.94	≤8.00	PASS
			106Tone	RU53	-10.64	≤8.00	PASS
	total	2437	26Tone	RU4	-3.06	≤8.00	
			52Tone	RU38	-4.96	≤8.00	PASS
			106Tone	RU53	-7.04	≤8.00	
	Ant0	2462	26Tone	RU8	-4.28	≤8.00	PASS
			52Tone	RU40	-7.01		
			106Tone	RU53	-10.71		
			26Tone	RU8	-5.12		
	Ant1	2462	52Tone	RU40	-7.48		
			106Tone	RU53	-10.87		
			26Tone	RU8	-1.67		
	total	2462	52Tone	RU40	-4.23		
			106Tone	RU53	-7.78		
	Ant0	2422	242Tone	RU61	-14.90		
	Ant1	2422	242Tone	RU61	-15.28	≤8.00	
	total	2422	242Tone	RU61	-12.08	≤8.00	PASS
	Ant0	2437	242Tone	RU61	-13.38		
11ax40MIMO	Ant1	2437	242Tone	RU61	-13.64		
	total	2437	242Tone	RU61	-10.50		
	Ant0	2452	242Tone	RU62	-15.82		
	Ant1	2452	242Tone	RU62	-15.93		
	total	2452	242Tone	RU62	-12.86	≤8.00	PASS



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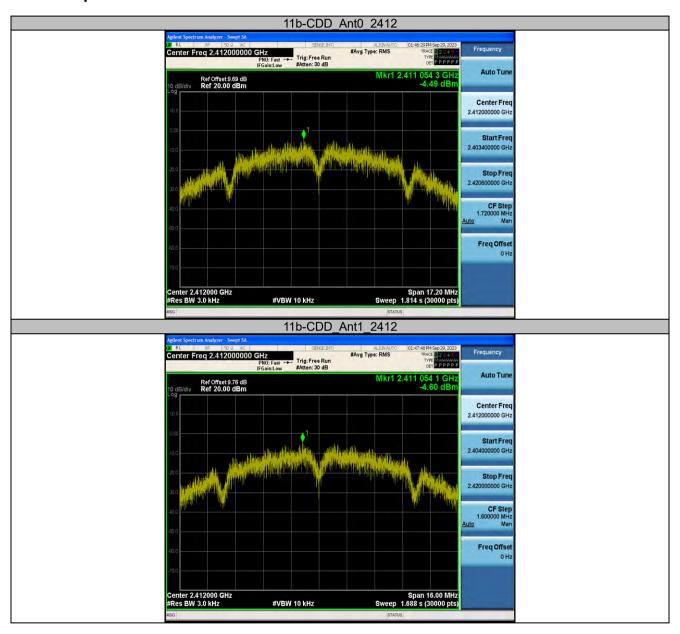


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#### **Test Graphs**





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