

Report No.: XEWM2309000447RG04

Rev.: 01

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TEST REPORT

Application No.: XEWM2309000447RG

Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.

Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot

Free Trade Zone

Manufacturer: Lenovo PC HK Limited

Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong,

China

EUT Description: Portable Tablet Computer

Model No.: TB330XU

Trade Mark: Lenovo

FCC ID: O57TB330XU

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/09/02

Date of Test: 2023/09/08 to 2023/09/13

Date of Issue: 2023/09/27

Test Result : PASS *

Authorized Signature:

Peter Tan Regulatory Technical Manager



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t (86-29) 6282 7885 t (86-29) 6282 7885

^{*} 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		2023/09/27		Original	

Prepared By	leah chen
Checked By	(Leah Chen) / Test Engineer
	(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:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

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:	Portable Tab	let Computer		
Model No.:	TB330XU			
Trade Mark:	Lenovo			
Hardware Version:	TB330XU			
Software Version:	Lenovo ZUI 1	15.1.027		
Power Supply:	3.91V			
IMEI:	RF Conducte	ed	865823060	003570
IIVI⊏I.	RSE & AC po	ower line	865823060	0002457
Operation Francisco	802.11b/g/n(I	HT20):		2412MHz to 2462MHz
Operation Frequency:	802.11n(HT4	0):		2422MHz to 2452MHz
Madulation Type	802.11b:	DSSS (DBF	PSK, DQPSK	X, CCK)
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Number of Channels:	, ,	802.11b/g/n(HT20): 11 802.11n(HT40): 7		
Channel Spacing:	5MHz	5MHz		
	⊠ siso	802.11b/g/n		
		CDD: 802.11b/g/n: Tx & Rx		Rx
Smart System:	☐ MIMO	STBC: 802.11n: Tx & Rx		
		TXBF: 802.11n: Tx & Rx		
	Diversity	802.11b/g: Tx & Rx		
Antenna Type:	PIFA Antenna	a		
	-1.64dBi			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.2dB			
Remark:	-			
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



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	Operation Frequency of each channel (802.11b/g/n HT20)						
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		
		Operation Fr	equency of ea	ach channel (802.11n HT40)	
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)	Frequency for 802.11n (HT40)
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	96.0~101.0 kPa Selected Values During Tests				
Relative Humidity	40-60 % RH Ambient				
Value	Temperature(°C) Voltage(V)				
NTNV	22~25 3.91				
Remark:					

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

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	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	1
802.11n (HT 40)	MCS0 (13.5 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 PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is -1.64dBi.*

*Note:

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

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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 = 30kHz			
Limit:	Limit (dBuV)			
	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:	room.	isturbance voltage test was o cted to AC power source thro		
	Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet str single LISN provided the 3) The tabletop EUT was ground reference plane. placed on the horizontal 4) The test was perform of the EUT shall be 0.4 reference plane. The LIST unit under test and bond mounted on top of the ground test point the EUT and associated In order to find the maxim	Network) which provides a 50 cables of all other units of the was bonded to the ground rest the LISN 1 for the unit being ip was used to connect multiple rating of the LISN was not east placed upon a non-metallic. And for floor-standing arrang ground reference plane, and with a vertical ground reference may be plane was bonded to the hose of the LISN 1 and the EUT equipment was at least 0.8 mum emission, the relative pointerface cables must be charten.	OΩ/50μH + 5Ω linear EUT were connected to ference g measured. A ole power cables to a exceeded. Itable 0.8m above the lement, the EUT was erence plane. The rear erence plane. The orizontal ground the boundary of the ne for LISNs distance was T. All other units of the form the LISN 2. ositions of	



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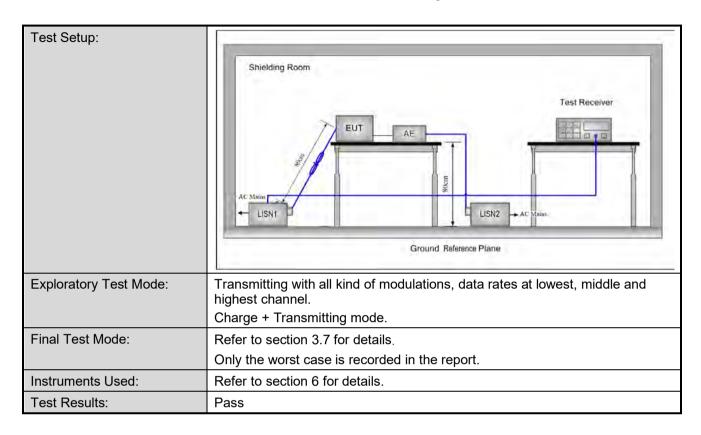
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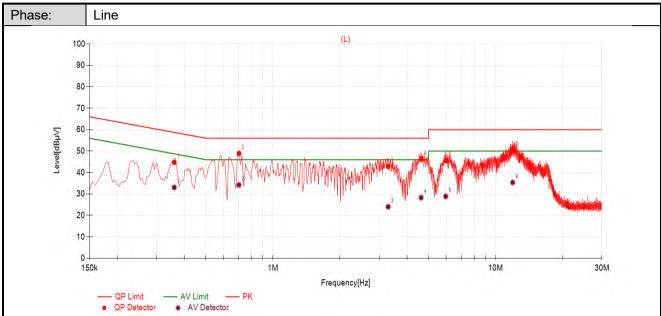
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Measurement Data

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 I	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	0.3601	9.87	34.88	44.75	58.73	13.98	23.17	33.04	48.73	15.69	PASS
2	0.7039	9.95	38.98	48.93	56.00	7.07	24.28	34.23	46.00	11.77	PASS
3	3.2904	9.85	32.97	42.82	56.00	13.18	14.18	24.03	46.00	21.97	PASS
4	4.6273	9.90	36.34	46.24	56.00	9.76	18.41	28.31	46.00	17.69	PASS
5	5.9698	9.91	35.62	45.53	60.00	14.47	18.96	28.87	50.00	21.13	PASS
6	11.9338	10.03	40.49	50.52	60.00	9.48	25.32	35.35	50.00	14.65	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[dBµV] Value[dBµV]



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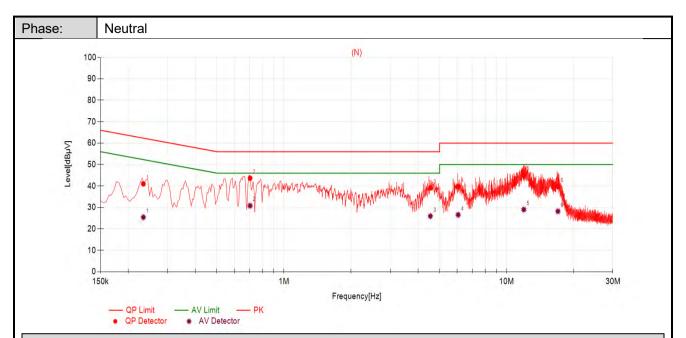
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Data l	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2336	9.83	31.19	41.02	62.32	21.30	15.60	25.43	52.32	26.89	PASS
2	0.7043	9.84	33.79	43.63	56.00	12.37	20.97	30.81	46.00	15.19	PASS
3	4.5457	9.97	29.13	39.10	56.00	16.90	15.98	25.95	46.00	20.05	PASS
4	6.0583	10.01	29.78	39.79	60.00	20.21	16.55	26.56	50.00	23.44	PASS
5	11.9470	10.15	34.92	45.07	60.00	14.93	18.86	29.01	50.00	20.99	PASS
6	16.9958	10.29	29.40	39.69	60.00	20.31	17.92	28.21	50.00	21.79	PASS

Remark:

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



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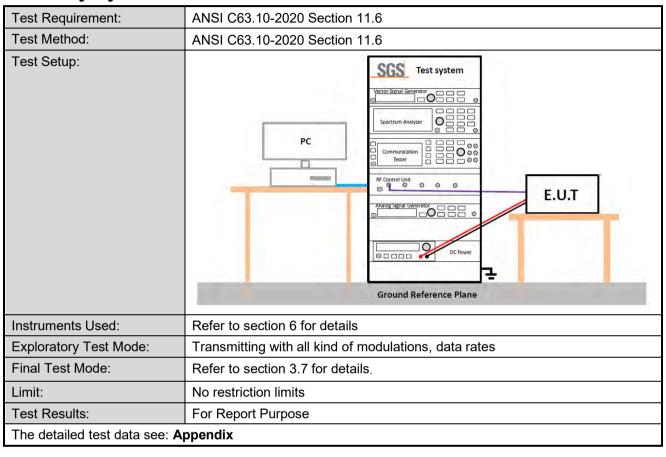


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4.3 Duty Cycle





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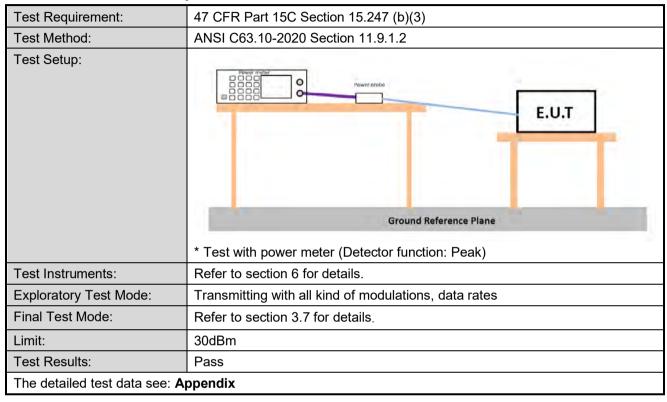


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4.4 Conducted Output Power





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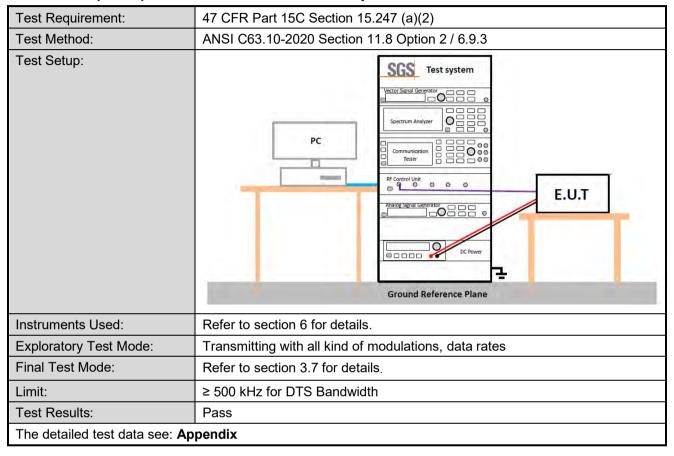


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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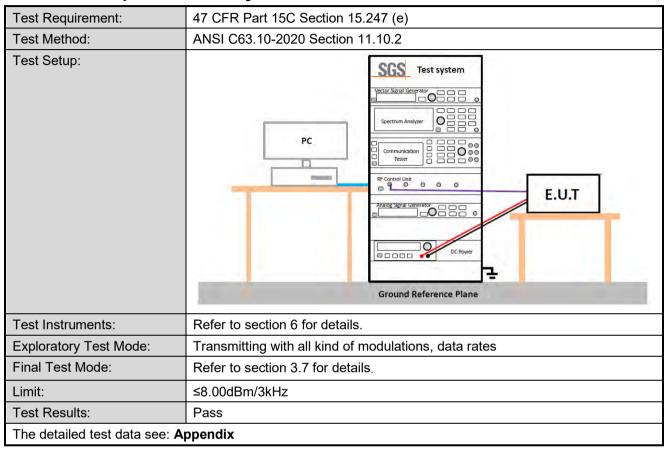


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4.6 Power Spectral Density





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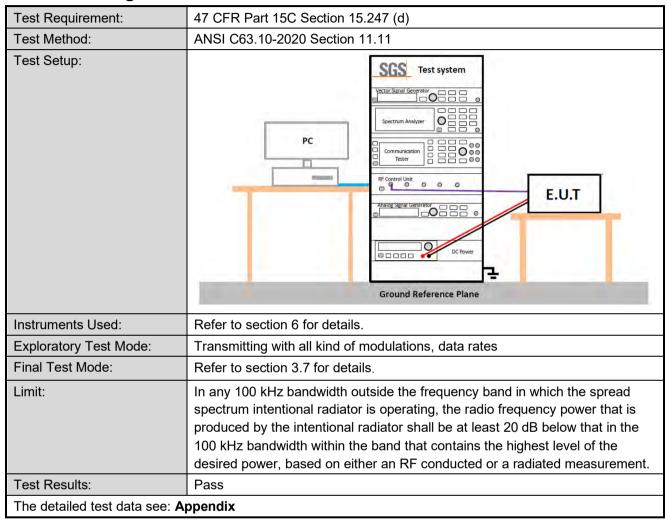


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4.7 Band-edge for RF Conducted Emissions





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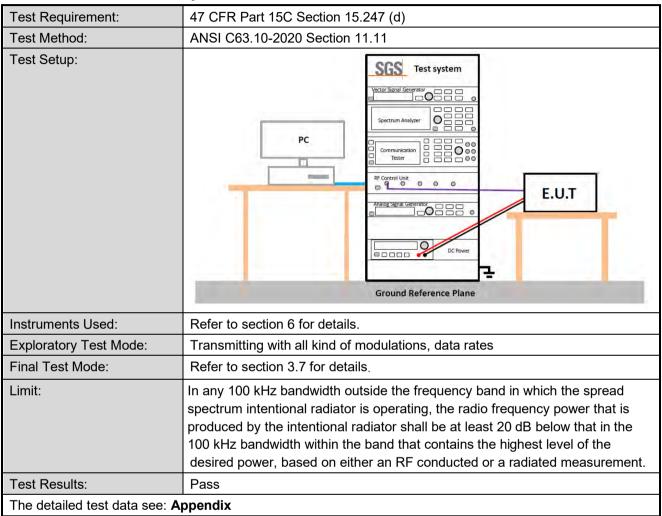


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

47 CFR Part 15C Section 15.209 and 15.205							
ANSI C63.10-2020 Section 11.12							
Measurement Distance: 3m (Semi-Anechoic 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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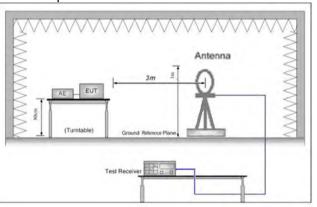


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Test Setup:



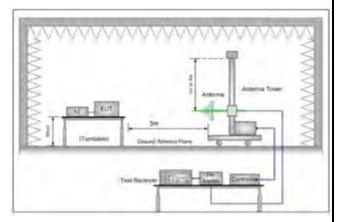


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

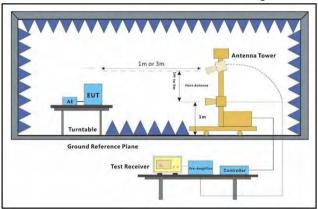


Figure 3. Above 1 GHz

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



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	frequency of below 30MHz, the antenna was tuned to heights 1 meter) and 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 Z 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
	 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.
	I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
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
	• 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
	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.
	Charge + 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: Appendix					



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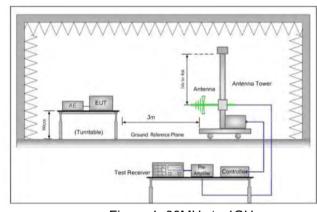
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4.10 Restricted bands around fundamental frequency

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:



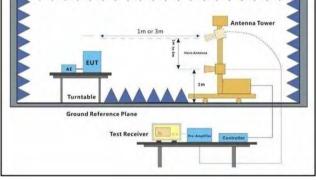


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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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. 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 and 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. 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 h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Test Configuration: Measurements Below 1000MHz • RBW = 10 MHz • VBW ≥ 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1/1T, when duty cycle is no less than 98 percent. • VBW ≥ 1/1T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the trans		,
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. 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 and 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. 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 h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Test Configuration: 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 • RBW = 1 MHz • VBW ≥ 17T, when duty cycle is no less than 98 percent. • VBW ≥ 17T, 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	Test Procedure:	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.
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 and 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. 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 h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. 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 • RBW = 1 M Hz • VBW ≥ 17T, 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 transmission duration over which the transmitter is on and is transmitting at its		meters above the ground at a 3 meter semi-anechoic camber. The table was
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• 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		• RBW = 1 MHz
transmission duration over which the transmitter is on and is transmitting at its		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
Exploratory Test Mode: Transmitting with all kind of modulations, data rates.	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Charge + 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: Appendix				



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

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 ⁻⁸ 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)		
		± 4.9dB (30MHz to 1GHz)		
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (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	2023/02/16	2024/02/15			
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/d d)	Cal.Due date (yyyy/mm/d d)			
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~18GH z)	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 Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03			
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15			
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	Ant1	2412	7.560	2408.480	2416.040	0.5	PASS
		2437	7.080	2433.440	2440.520	0.5	PASS
		2462	7.560	2457.960	2465.520	0.5	PASS
11g	Ant1	2412	14.440	2405.720	2420.160	0.5	PASS
		2437	12.520	2429.280	2441.800	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11n20SISO	Ant1	2412	14.480	2405.680	2420.160	0.5	PASS
		2437	15.640	2428.880	2444.520	0.5	PASS
		2462	15.280	2454.280	2469.560	0.5	PASS
11n40SISO	Ant1	2422	33.760	2405.760	2439.520	0.5	PASS
		2437	35.440	2419.080	2454.520	0.5	PASS
		2452	33.760	2434.480	2468.240	0.5	PASS



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Test Graphs





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99% Occupied Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict	
		2412	12.839	2405.7956	2418.6346		
11b	Ant1	2437	12.818	2430.4786	2443.2966		
		2462	12.806	2455.4917	2468.2977		
		2412	16.895	2403.7092	2420.6042		
11g	Ant1	Ant1	2437	16.749	2428.5460	2445.2950	For
			2462	16.765	2453.4923	2470.2573	For
		2412	17.864	2403.2102	2421.0742	Report	
11n20SISO	Ant1	2437	17.750	2428.0759	2445.8259	Purpose	
		2462	17.741	2453.0664	2470.8074		
	O Ant1	2422	35.793	2404.1571	2439.9501		
11n40SISO		2437	36.339	2418.7096	2455.0486		
		2452	36.148	2433.7617	2469.9097		



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Test Graphs





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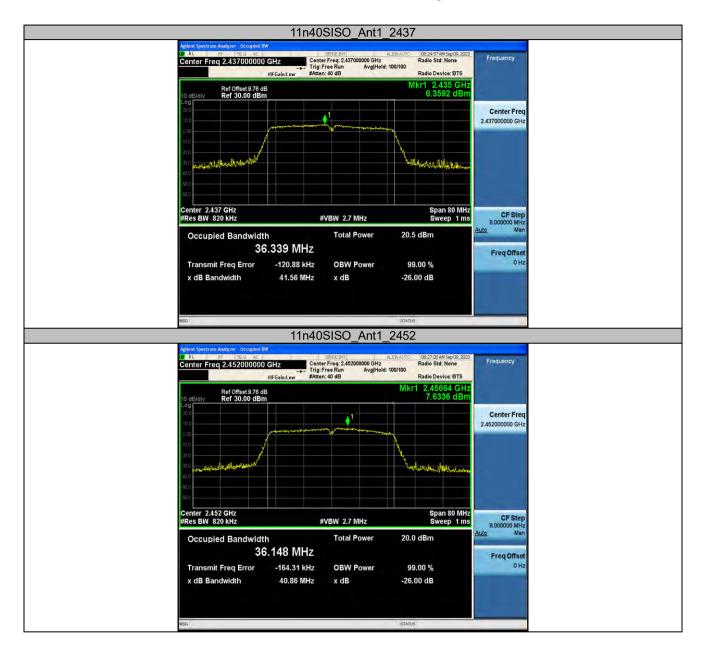
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2412	18.78	≤30.00	PASS
11b	Ant1	2437	19.04	≤30.00	PASS
		2462	18.92	≤30.00	PASS
	Ant1	2412	23.75	≤30.00	PASS
11g		2437	24.12	≤30.00	PASS
		2462	23.77	≤30.00	PASS
	Ant1	2412	24.23	≤30.00	PASS
11n20SISO		2437	24.57	≤30.00	PASS
		2462	24.36	≤30.00	PASS
11n40SISO	Ant1	2422	24.39	≤30.00	PASS
		2437	24.62	≤30.00	PASS
		2452	24.32	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-5.58	≤8.00	PASS
11b	Ant1	2437	-4.66	≤8.00	PASS
		2462	-6.45	≤8.00	PASS
	Ant1	2412	-10.52	≤8.00	PASS
11g		2437	-8.31	≤8.00	PASS
		2462	-10.80	≤8.00	PASS
	Ant1	2412	-11.77	≤8.00	PASS
11n20SISO		2437	-10.33	≤8.00	PASS
		2462	-10.98	≤8.00	PASS
11n40SISO	Ant1	2422	-12.42	≤8.00	PASS
		2437	-13.61	≤8.00	PASS
		2452	-14.64	≤8.00	PASS



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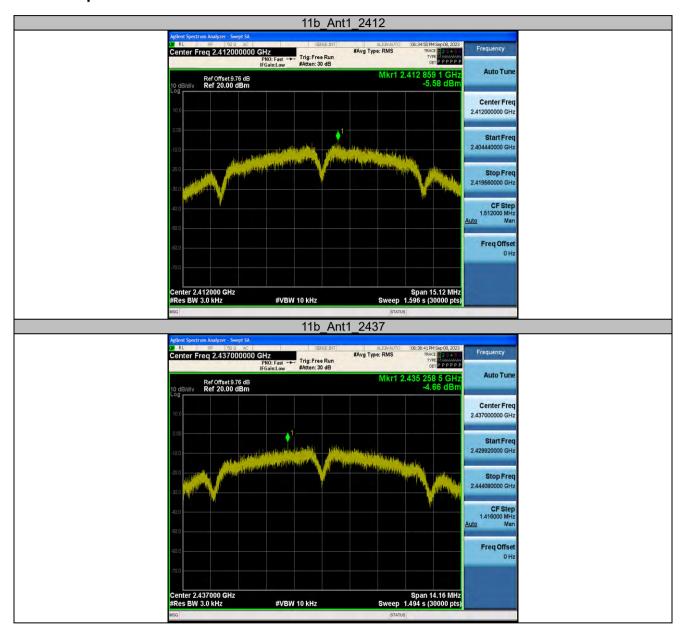


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Test Graphs





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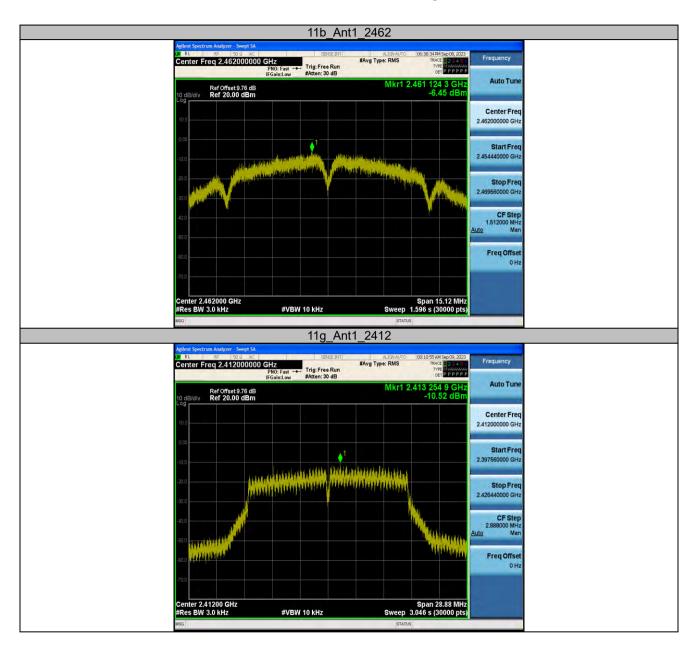
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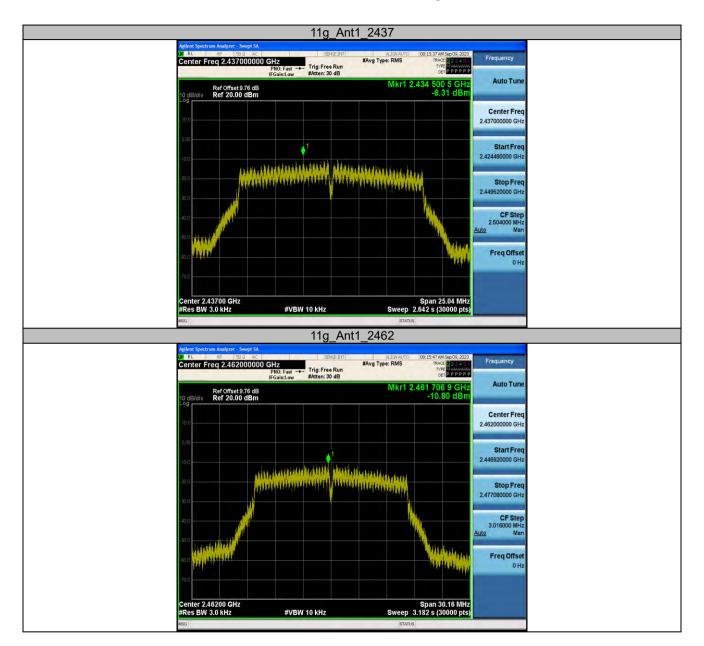
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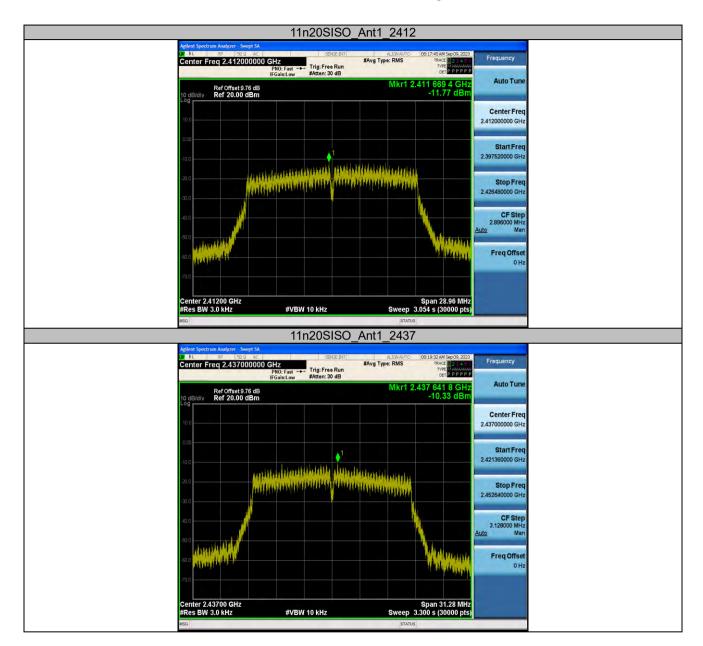
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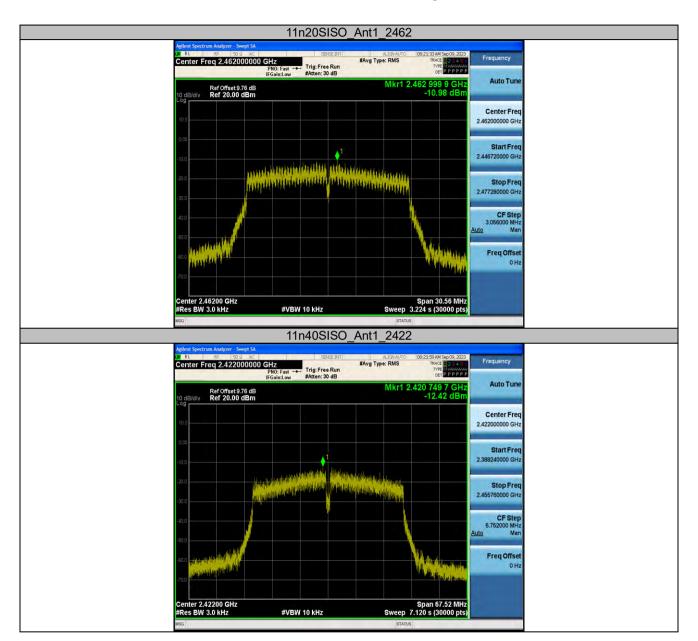
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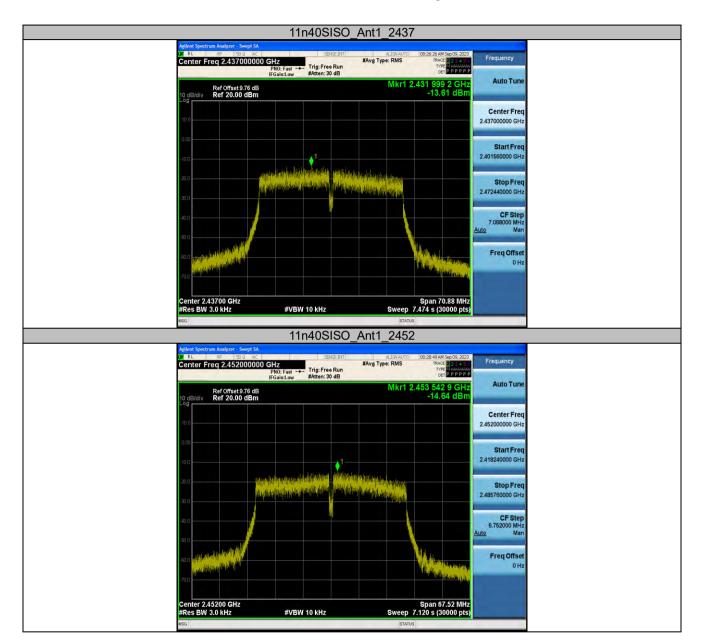
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Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	7.62	-43.8	≤-12.38	PASS
110	Ant1	High	2462	7.66	-49.66	≤-12.34	PASS
110	Ant1	Low	2412	3.66	-34.59	≤-16.34	PASS
11g		High	2462	3.94	-49.51	≤-16.06	PASS
11n20SISO	Ant1	Low	2412	1.76	-36.5	≤-18.24	PASS
		High	2462	3.05	-48.9	≤-16.95	PASS
11n40SISO	Ant1	Low	2422	0.82	-39.68	≤-19.18	PASS
		High	2452	0.31	-42.49	≤-19.69	PASS



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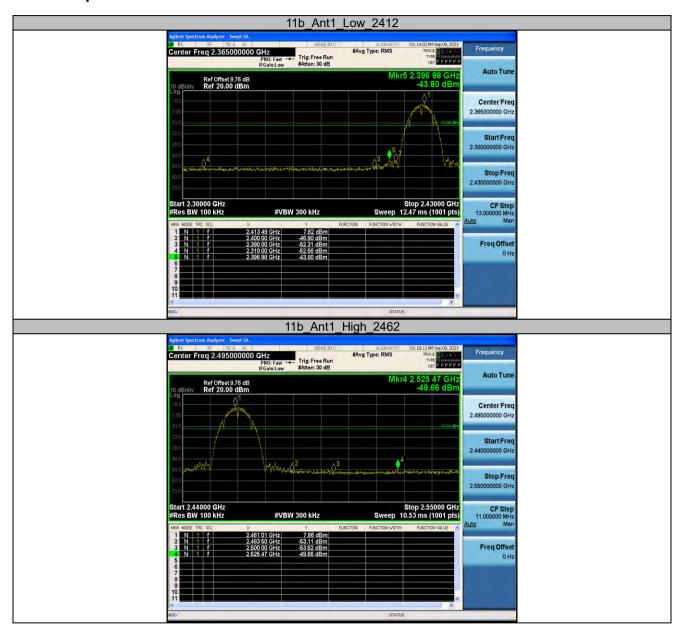


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Test Graphs





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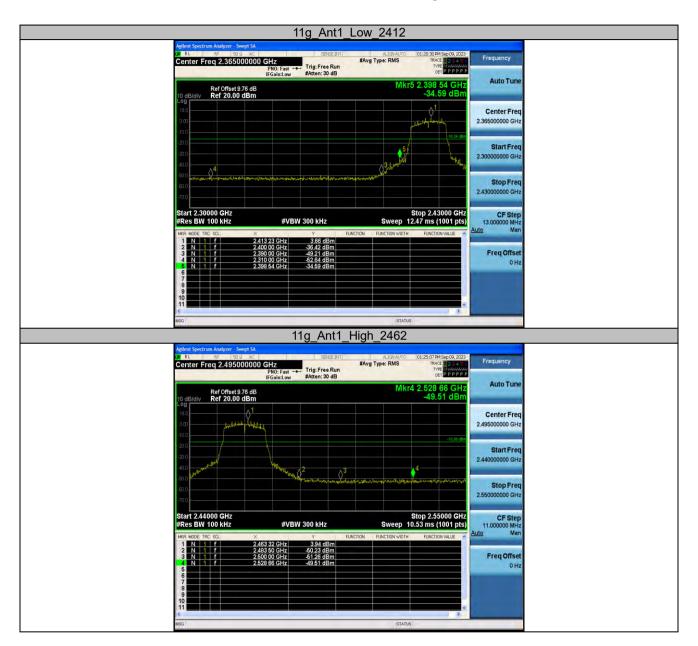
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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange	RefLevel	Result	Limit	Verdict
Toolivious	7 tintorina	1 roquonoy[ivii i2]	[Mhz]	[dBm]	[dBm]	[dBm]	
			Reference	7.43	7.43		PASS
		2412	30~1000	7.43	-59.24	≤-12.57	PASS
			1000~26500	7.43	-45.6	≤-12.57	PASS
			Reference	7.43	7.43		PASS
11b	Ant1	2437	30~1000	7.43	-59.35	≤-12.57	PASS
			1000~26500	7.43	-44.96	≤-12.57	PASS
			Reference	6.86	6.86		PASS
		2462	30~1000	6.86	-59.06	≤-13.14	PASS
			1000~26500	6.86	-45.72	≤-13.14	PASS
			Reference	0.30	0.30		PASS
		2412	30~1000	0.30	-59.33	≤-19.7	PASS
			1000~26500	0.30	-44.63	≤-19.7	PASS
			Reference	1.11	1.11		PASS
11g	Ant1	2437	30~1000	1.11	-59.92	≤-18.89	PASS
rig			1000~26500	1.11	-45.61	≤-18.89	PASS
		2462	Reference	3.85	3.85		PASS
			30~1000	3.85	-59.85	≤-16.15	PASS
			1000~26500	3.85	-45.23	≤-16.15	PASS
			Reference	1.11	1.11		PASS
		2412	30~1000	1.11	-59.76	≤-18.89	PASS
			1000~26500	1.11	-45.15	≤-18.89	PASS
			Reference	1.75	1.75		PASS
11n20SISO	Ant1	2437	30~1000	1.75	-59.43	≤-18.25	PASS
			1000~26500	1.75	-45.73	≤-18.25	PASS
			Reference	0.52	0.52		PASS
		2462	30~1000	0.52	-59.3	≤-19.48	PASS
			1000~26500	0.52	-46.01	≤-19.48	PASS
			Reference	0.41	0.41		PASS
		2422	30~1000	0.41	-59.58	≤-19.59	PASS
			1000~26500	0.41	-45.56	≤-19.59	PASS
			Reference	-0.67	-0.67		PASS
11n40SISO	Ant1	nt1 2437 2452	30~1000	-0.67	-58.96	≤-20.67	PASS
			1000~26500	-0.67	-45.62	≤-20.67	PASS
			Reference	-1.29	-1.29		PASS
			30~1000	-1.29	-58.96	≤-21.29	PASS
			1000~26500	-1.29	-44.98	≤-21.29	PASS



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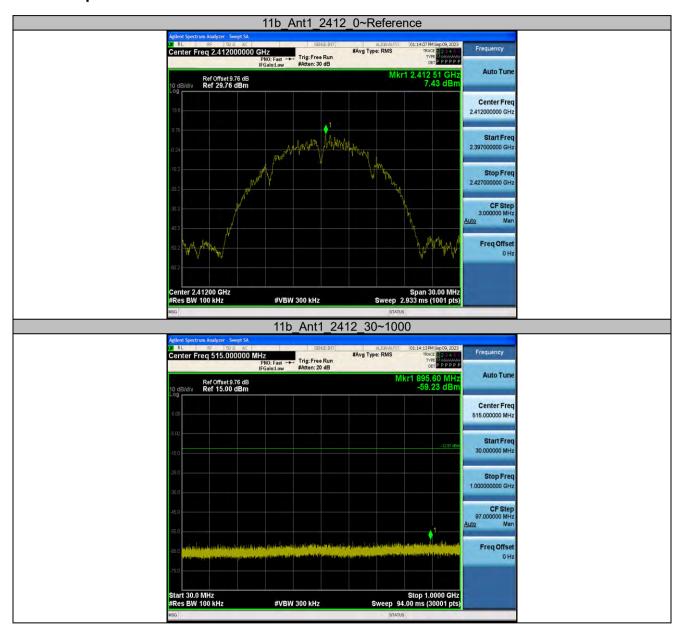


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Test Graphs





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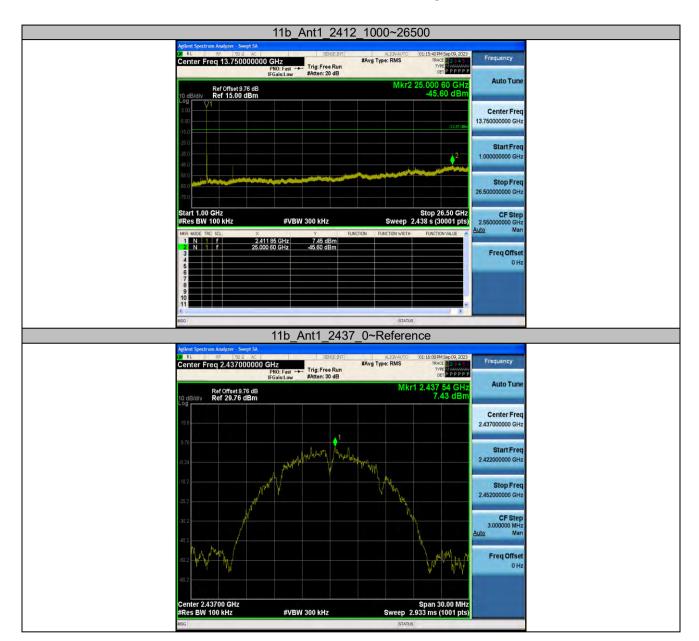
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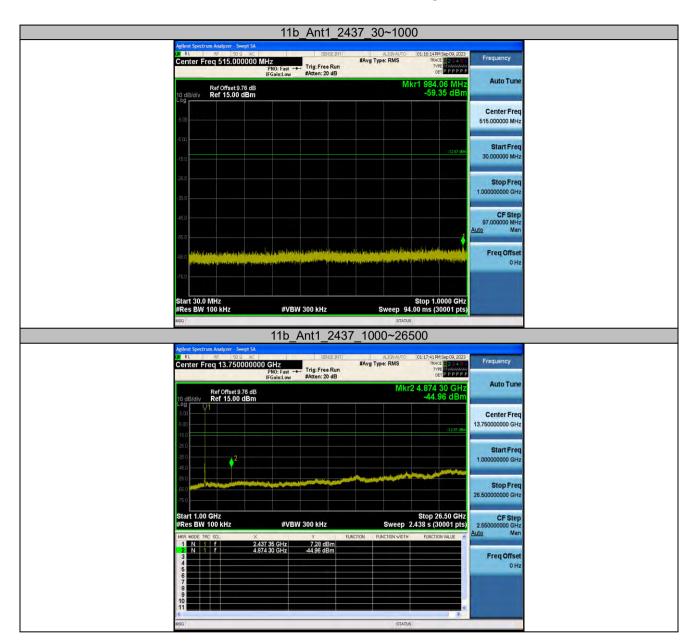
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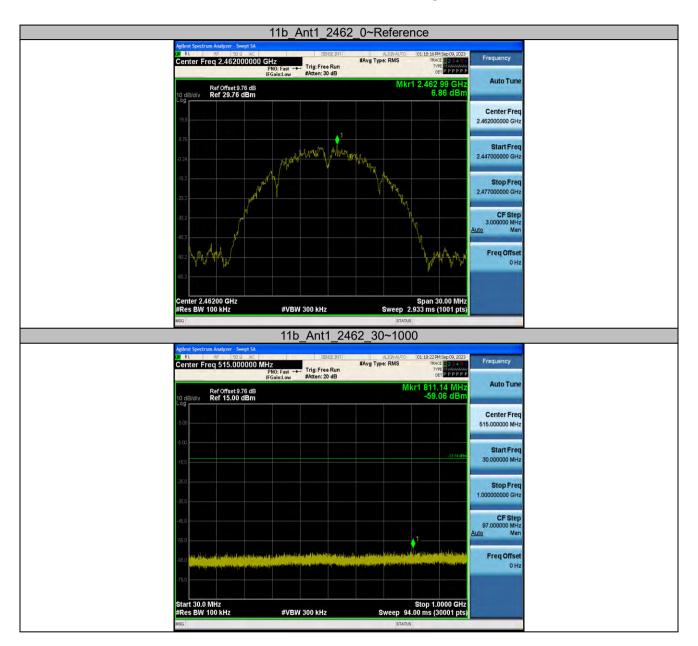
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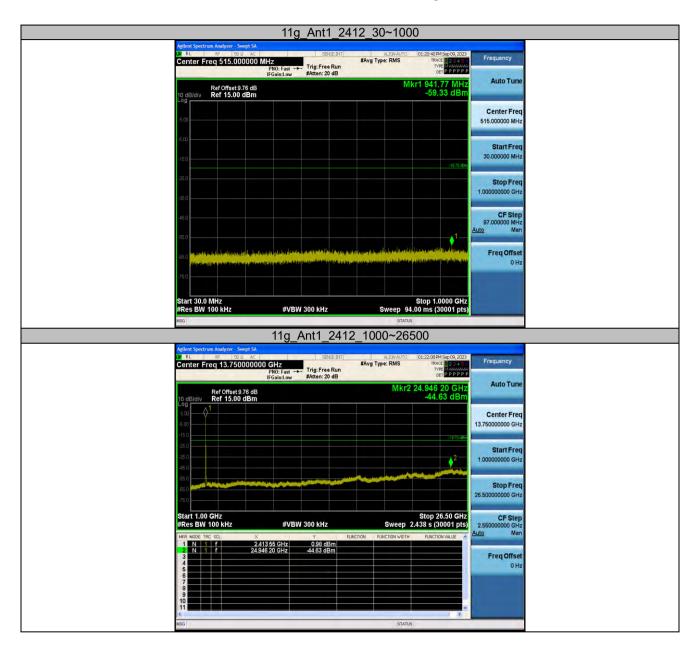
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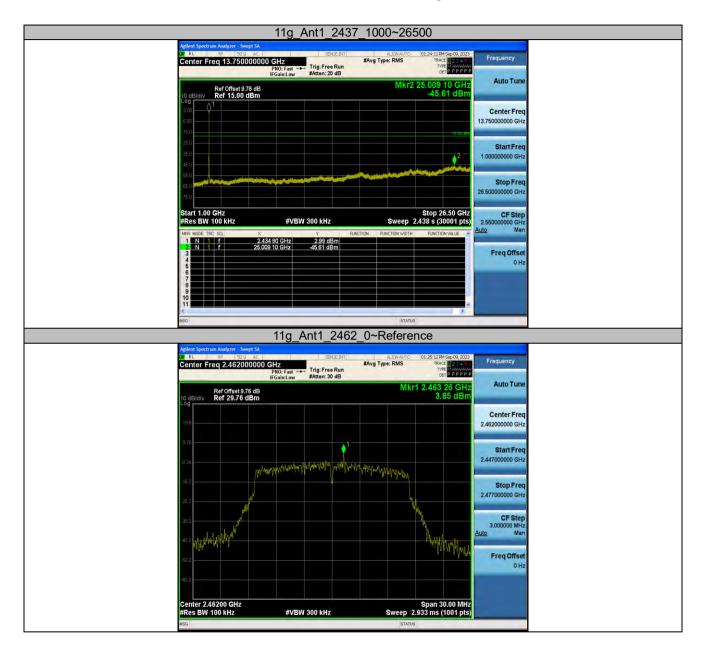
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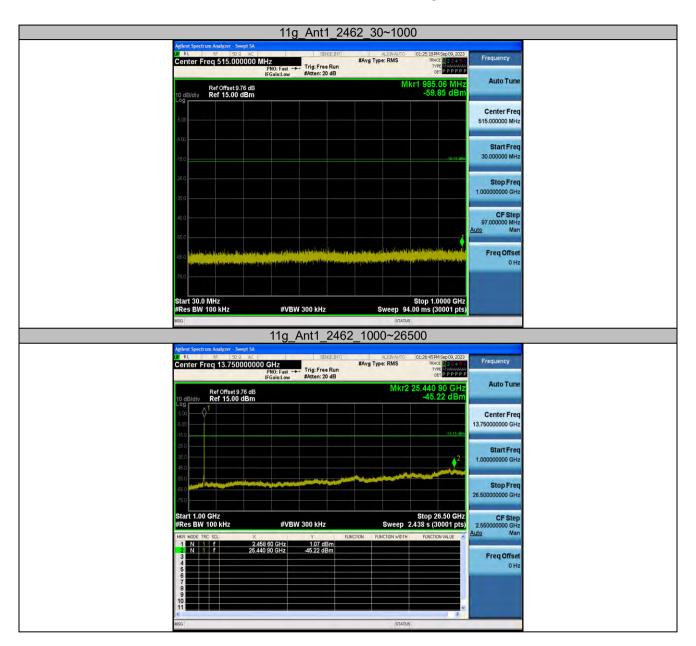
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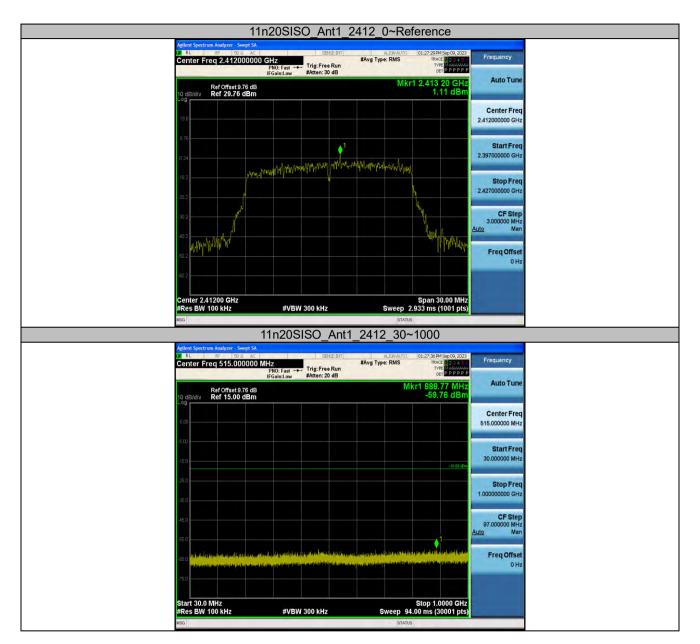
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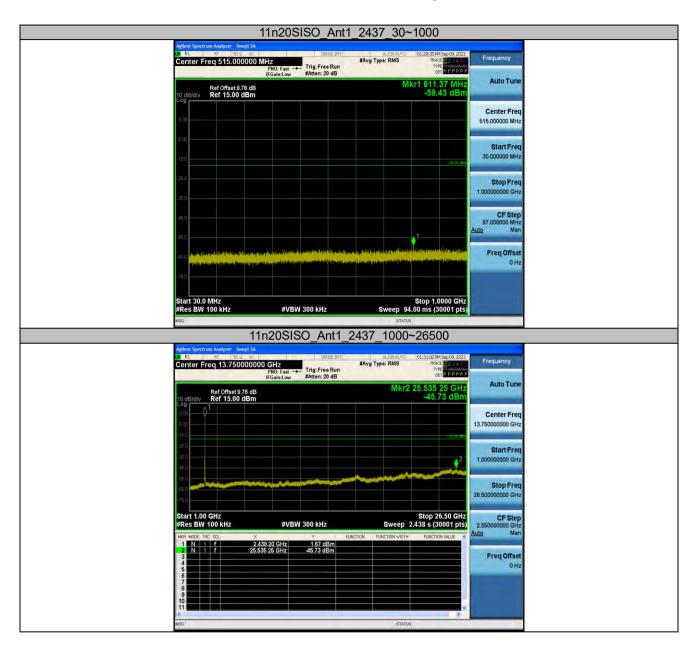
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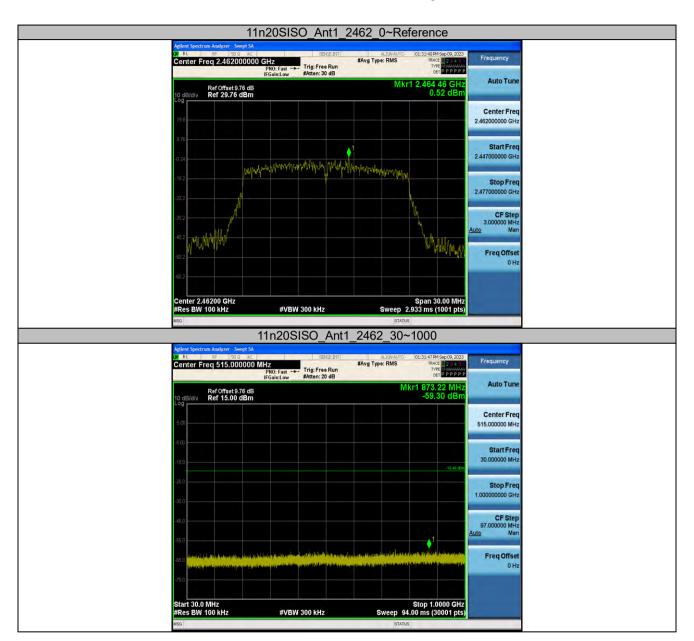
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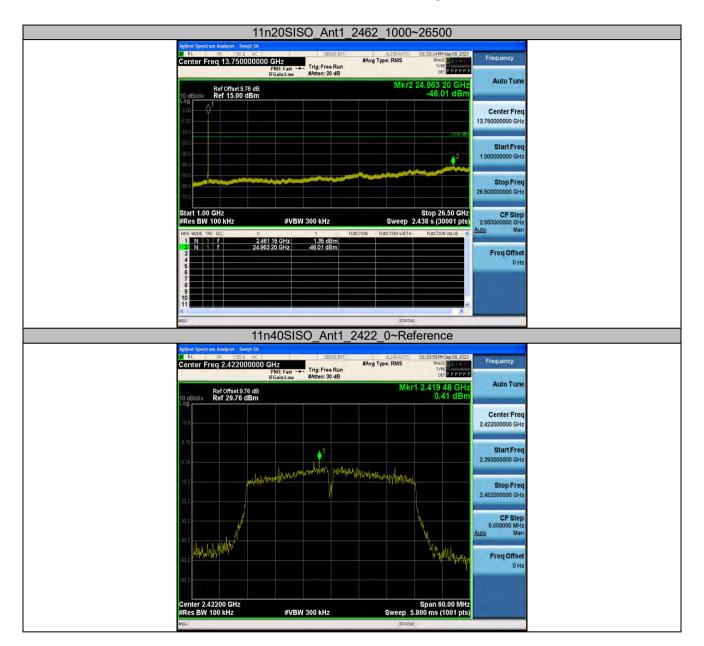
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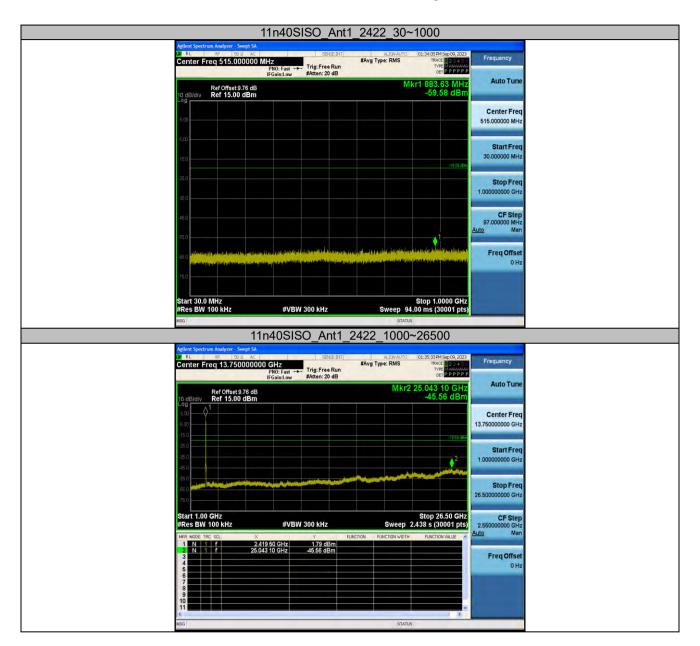
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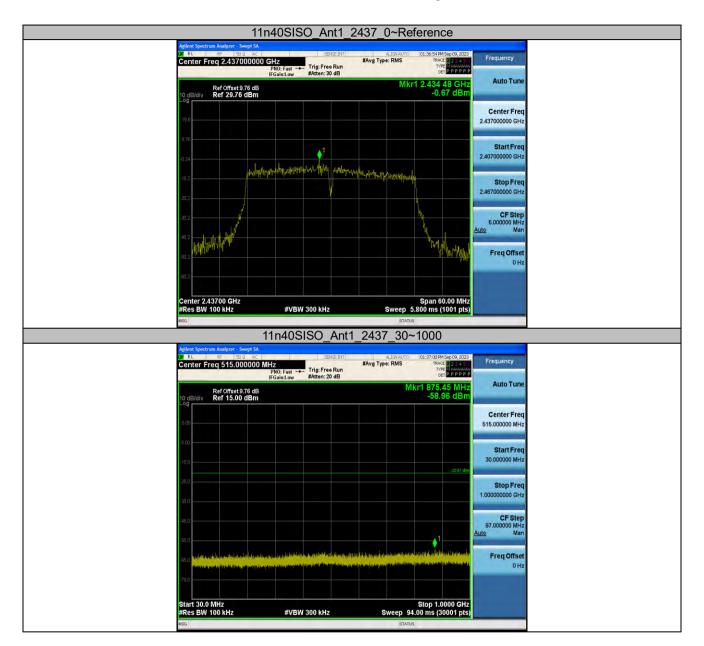
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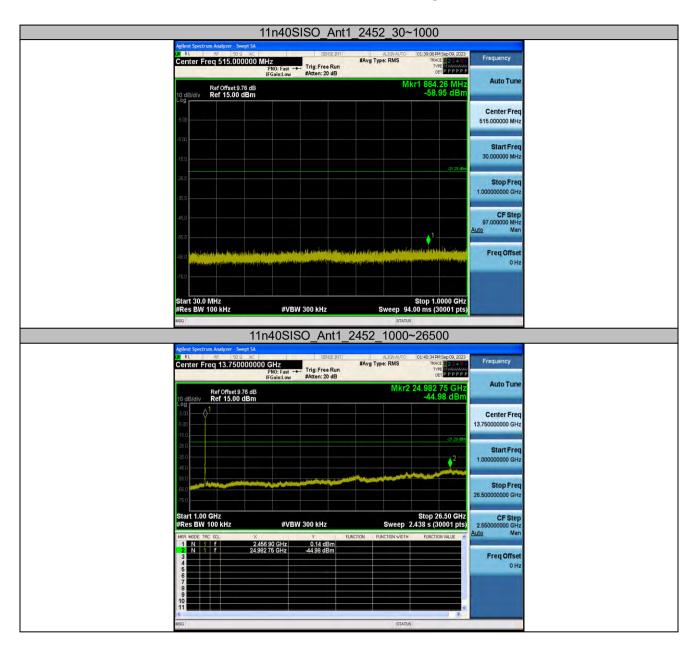
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
		2412	8.39	8.43	99.53	0.02
11b	Ant1	2437	8.39	8.42	99.64	0.02
		2462	8.39	8.42	99.64	0.02
		2412	1.39	1.44	96.53	0.15
11g	Ant1	2437	1.40	1.44	97.22	0.12
ŭ		2462	1.39	1.44	96.53	0.15
		2412	1.30	1.35	96.30	0.16
11n20SISO	Ant1	2437	1.30	1.34	97.01	0.13
		2462	1.30	1.34	97.01	0.13
		2422	0.65	0.69	94.20	0.26
11n40SISO	Ant1	2437	0.65	0.70	92.86	0.32
		2452	0.64	0.69	92.75	0.33

Note

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.39	8.43	99.53	0.11919	10Hz*
11g	1.40	1.44	97.22	0.71429	0.75KHz
11n20SISO	1.30	1.35	96.30	0.76923	0.82KHz
11n40SISO	0.65	0.70	92.86	1.53846	1.6KHz

^{*}Duty cycle > 98% VBW setting=10Hz





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Test Graphs





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