

Report No.: XEWM2309000484RG01

Rev.: 01

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TEST REPORT

Application No.: XEWM2309000484RG

Applicant: Beijing InHand Networks Technology Co., Ltd.

Address of Applicant: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

Manufacturer: Beijing InHand Networks Technology Co., Ltd.

Address of Manufacturer: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

EUT Description: 5G Outdoor Unit

Model No.: ODU2x02-NATM (Where 'x' represents the numbers '0-9')

Trade Mark: inhand

FCC ID: 2AANY-ODUNATM

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/09/19

Date of Test: 2023/09/21 to 2023/09/26

Date of Issue: 2023/10/17

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Peter Tan Regulatory Technical Manager



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1 Version

Revision Record					
Version	Version Chapter Date Modifier Remark				
01		2023/10/17		Original	

Prepared By	(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 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10 2013 Section 11.6	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to the Declaration letter from client, Models No.: ODU2x02-NATM, Where 'x' represents the numbers '0-9'.

Therefore in this report only the Model No.(ODU2002-NATM)was tested, and internal wiring were identical for all above items. Only different on model No. for marketing requirement.



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3 General Information

3.1 Details of Client

Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address of Applicant:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.
Address of Manufacturer:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

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,Ken Liu

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:	5G Outdoor l	5G Outdoor Unit			
Model No.:	ODU2x02-NA	ODU2x02-NATM (Where 'x' represents the numbers '0-9')			
Trade Mark:	inhand				
Hardware Version:	V1.2				
Software Version:	V2.0				
Power Supply:	POE 50V				
SN:	ON20022323	3JYG3X			
Operation Fraguency	802.11b/g/n(l	HT20):	2412MHz to 2462MHz		
Operation Frequency:	802.11n(HT4	0):	2422MHz to 2452MHz		
Mandadation Tons	802.11b:	DSSS (I	DBPSK, DQPSK, CCK)		
Modulation Type:	802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		BPSK, QPSK, 16QAM, 64QAM)		
Number of Channels:	802.11b/g/n(l 802.11n(HT4	•			
Channel Spacing:	5MHz				
	⊠ SISO	802.11b/g/n			
		CDD: 802.11b/g/n: Tx & Rx			
Smart System:	□ мімо	STBC: 802.11n: Tx & Rx			
		TXBF: 8	02.11n: Tx & Rx		
	Diversity	802.11b	/g: Tx & Rx		
Antenna Type:		☐ Integra	ated		
	4.21dBi(Ant0);			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.				
RF Cable:	1.2dB	1.2dB			
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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	96~101 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~25 50			
Remark: NV: Normal Voltage				

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 External Antenna and no consideration of replacement. The best case gain of the antenna is 4.21dBi(Ant0).*

*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: 2013 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:	* Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The 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 between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to			



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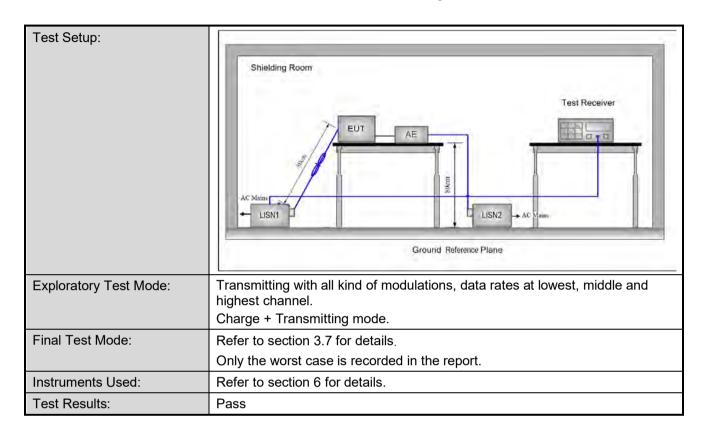
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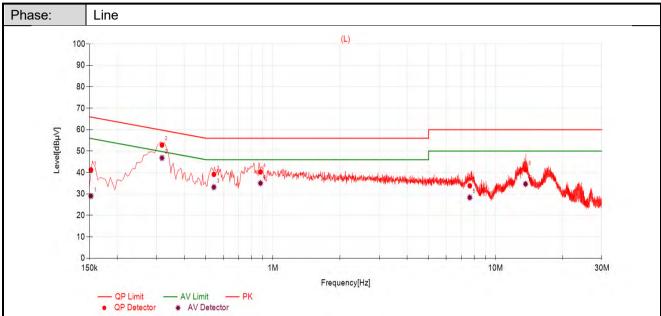
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Measurement Data

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	0.1522	9.86	31.35	41.21	65.88	24.67	19.14	29.00	55.88	26.88	PASS
2	0.3173	9.90	42.94	52.84	59.78	6.94	36.92	46.82	49.78	2.96	PASS
3	0.5428	9.90	29.24	39.14	56.00	16.86	23.29	33.19	46.00	12.81	PASS
4	0.8787	9.88	30.41	40.29	56.00	15.71	25.16	35.04	46.00	10.96	PASS
5	7.6535	9.90	23.93	33.83	60.00	26.17	18.46	28.36	50.00	21.64	PASS
6	13.6249	10.14	31.15	41.29	60.00	18.71	24.53	34.67	50.00	15.33	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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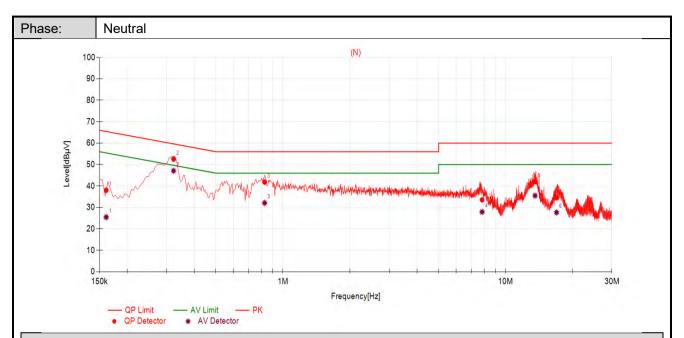
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Data I	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1607	9.79	28.22	38.01	65.43	27.42	15.67	25.46	55.43	29.97	PASS
2	0.3227	9.79	42.76	52.55	59.64	7.09	37.31	47.10	49.64	2.54	PASS
3	0.8273	9.83	32.01	41.84	56.00	14.16	22.25	32.08	46.00	13.92	PASS
4	7.8386	10.06	23.48	33.54	60.00	26.46	17.85	27.91	50.00	22.09	PASS
5	13.5584	10.24	31.75	41.99	60.00	18.01	25.26	35.50	50.00	14.50	PASS
6	16.9295	10.28	24.24	34.52	60.00	25.48	17.38	27.66	50.00	22.34	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 μ V] Value[dB μ V]



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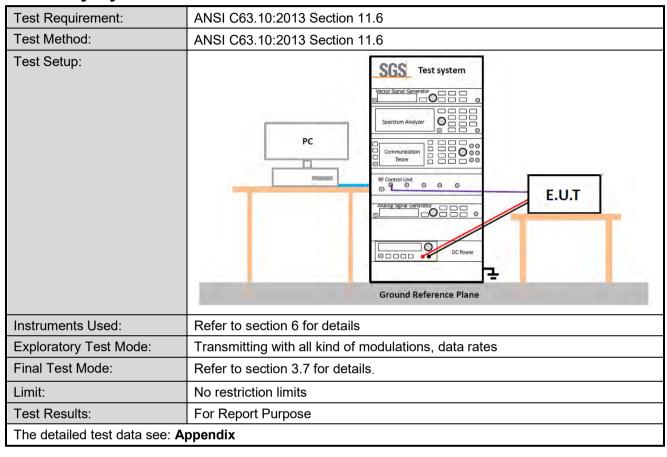


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4.3 Duty Cycle





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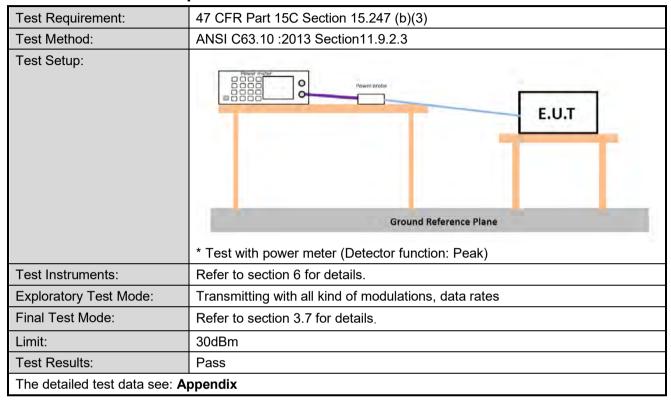


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4.4 Conducted Output Power





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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: 2013 Section 11.8 Option 2 / 6.9.3				
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer Communication Fester BC Control Unit Communication Fester BC Power BC 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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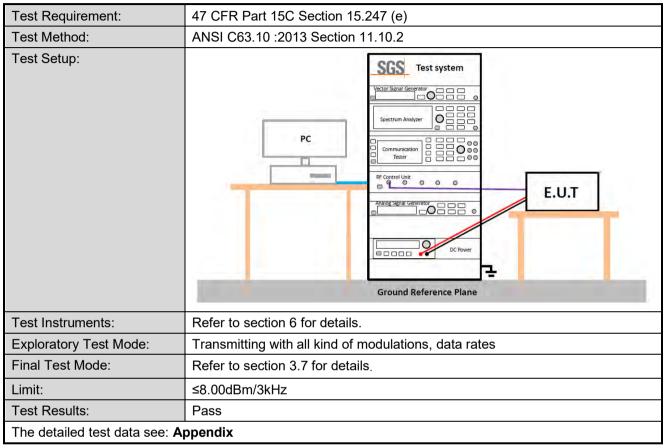


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4.6 Power Spectral Density





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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: 2013 Section 11.11				
Test Setup:	PC Signal Generator				
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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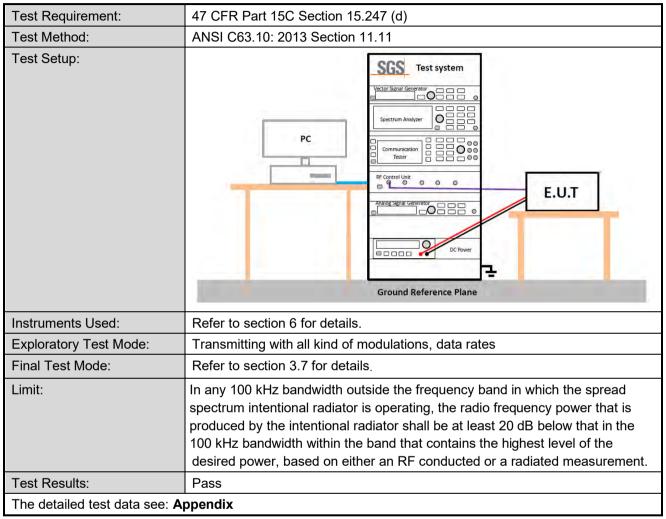


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	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			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGHZ	Peak	1MHz	3MHz	Peak			
Limit:	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							
	emission level radiated b	y the device.						



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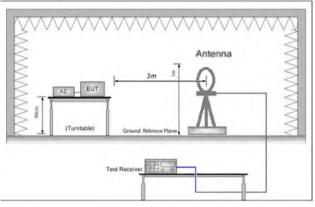


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Test Setup:



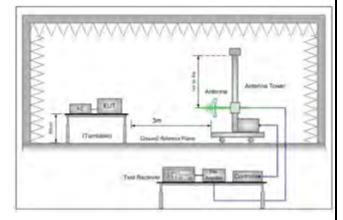


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

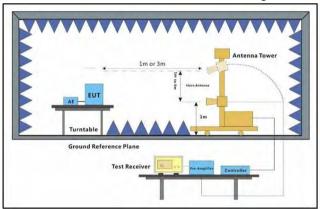


Figure 3. Above 1 GHz

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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Test Configuration:	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 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 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. l. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 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 ≥ 3 MHz • 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
Exploratory Test Mode:	maximum power control level for the tested mode of operation. Transmitting with all kind of modulations, data rates.
Exploratory Foot Mode.	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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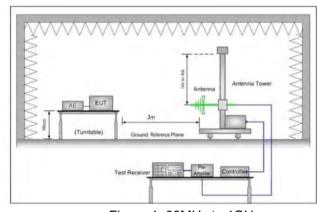
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 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:



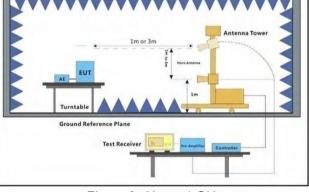


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	 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 X 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 = 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.



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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)

	medeatement entertainty (50% commedition levels, it 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

<u> </u>									
	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				
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				
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	Ant0	2412	8.600	2407.960	2416.560	0.5	PASS
		2437	8.560	2432.440	2441.000	0.5	PASS
		2462	9.000	2457.520	2466.520	0.5	PASS
11g	Ant0	2412	16.200	2404.000	2420.200	0.5	PASS
		2437	15.080	2428.800	2443.880	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11n20SISO	Ant0	2412	17.320	2403.480	2420.800	0.5	PASS
		2437	16.280	2428.240	2444.520	0.5	PASS
		2462	17.280	2453.480	2470.760	0.5	PASS
11n40SISO	Ant0	2422	33.840	2405.680	2439.520	0.5	PASS
		2437	34.240	2419.080	2453.320	0.5	PASS
		2452	35.920	2433.840	2469.760	0.5	PASS



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Test Graphs





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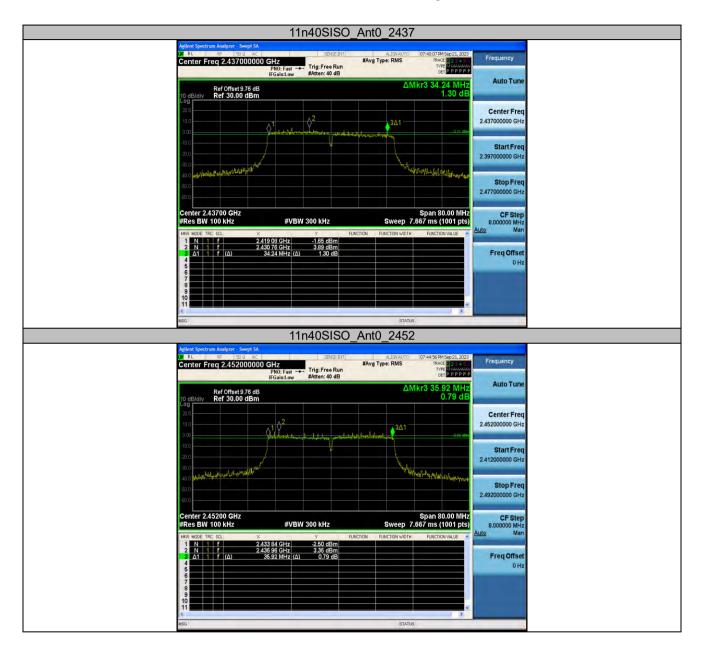
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99%Occupied Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2412	13.492	2405.4167	2418.9087	
11b	Ant0	2437	13.440	2430.1320	2443.5720	
		2462	13.333	2455.4058	2468.7388	
		2412	17.133	2403.5015	2420.6345	
11g	Ant0	2437	17.013	2428.3492	2445.3622	For
		2462	17.009	2453.5325	2470.5415	
	SISO Ant0	2412	18.138	2403.0372	2421.1752	Report Purpose
11n20SISO		2437	18.047	2427.8381	2445.8851	Fulpose
			2462	17.921	2453.1218	2471.0428
		2422	35.983	2404.0202	2440.0032]
11n40SISO	Ant0	2437	36.284	2418.7483	2455.0323	
		2452	36.665	2433.5985	2470.2635	



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Test Graphs





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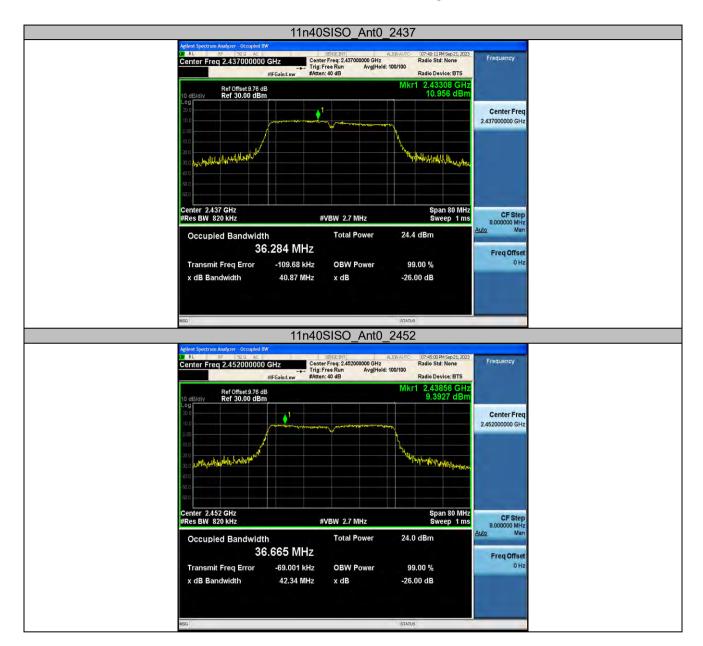
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2412	22.58	≤30.00	PASS
11b	Ant0	2437	24.74	≤30.00	PASS
		2462	23.81	≤30.00	PASS
		2412	24.37	≤30.00	PASS PASS
11g	Ant0	2437	25.73	≤30.00	PASS
		2462	25.70	≤30.00	PASS
		2412	24.35	≤30.00	PASS
11n20SISO	Ant0	2437	2 22.58 ≤30.00 7 24.74 ≤30.00 2 23.81 ≤30.00 2 24.37 ≤30.00 7 25.73 ≤30.00 2 25.70 ≤30.00 2 24.35 ≤30.00 2 25.73 ≤30.00 2 25.73 ≤30.00 2 25.61 ≤30.00 2 25.51 ≤30.00 7 25.61 ≤30.00 2 25.61 ≤30.00 7 25.61 ≤30.00	≤30.00	PASS
		2462	25.61	≤30.00	PASS
		2422	25.51	≤30.00	PASS
11n40SISO	Ant0	2437	25.61	≤30.00	PASS
		2452	25.68	≤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	-1.66	≤8.00	PASS
11b	Ant0	2437	-0.43	≤8.00	PASS
		2462	-0.15	≤8.00	PASS
		2412	-9.52	≤8.00	PASS D PASS
11g	Ant0	2437	-6.85	≤8.00	PASS
		2462	-7.92	≤8.00	PASS
		2412	-10.34	≤8.00	PASS
11n20SISO	Ant0	2437	-8.01	≤8.00	PASS PASS PASS PASS PASS PASS PASS PASS
		2462	-7.31	≤8.00	PASS
	Ant0	2422	-10.53	≤8.00	PASS
11n40SISO		2437	-11.22	≤8.00	PASS
		2452	-11.40	≤8.00	PASS



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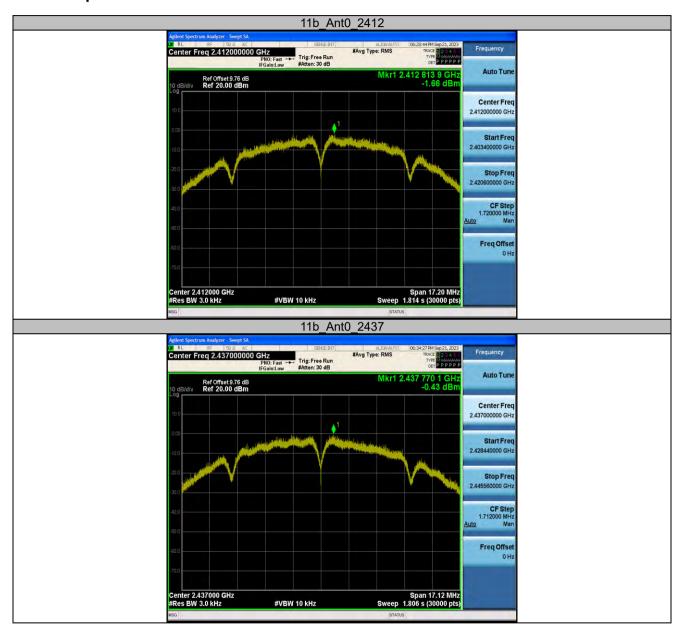


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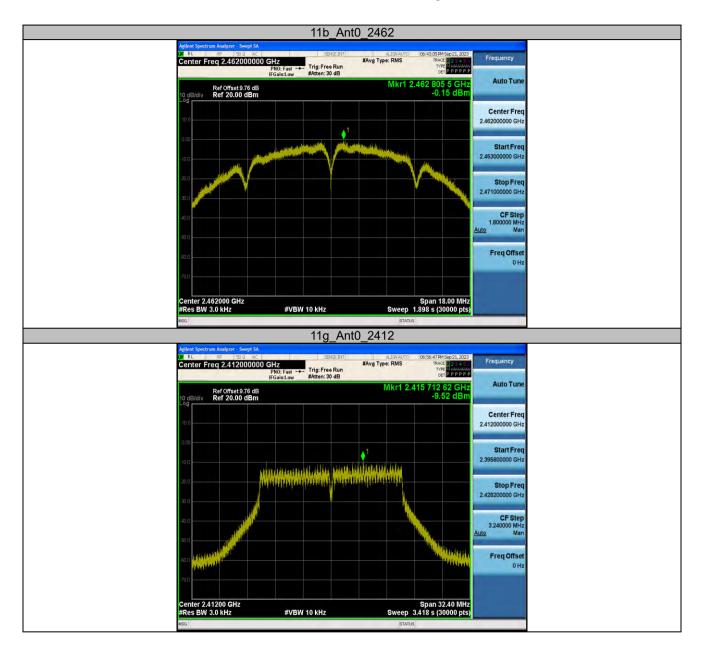
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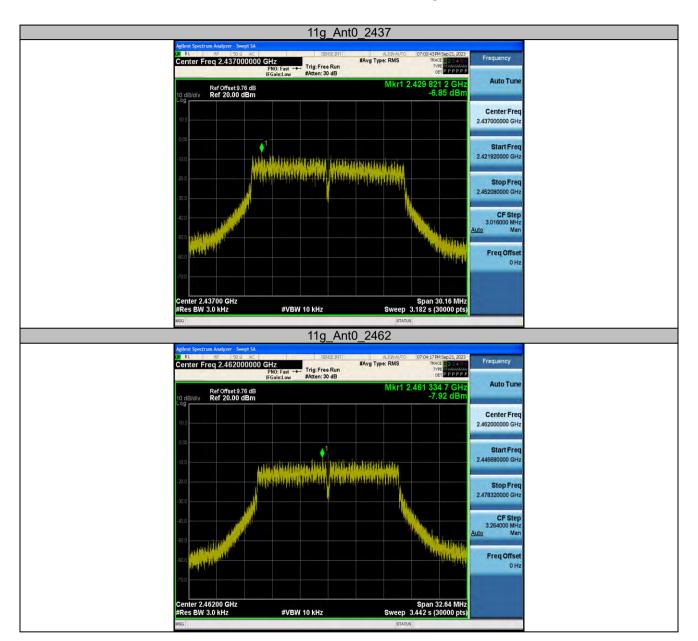
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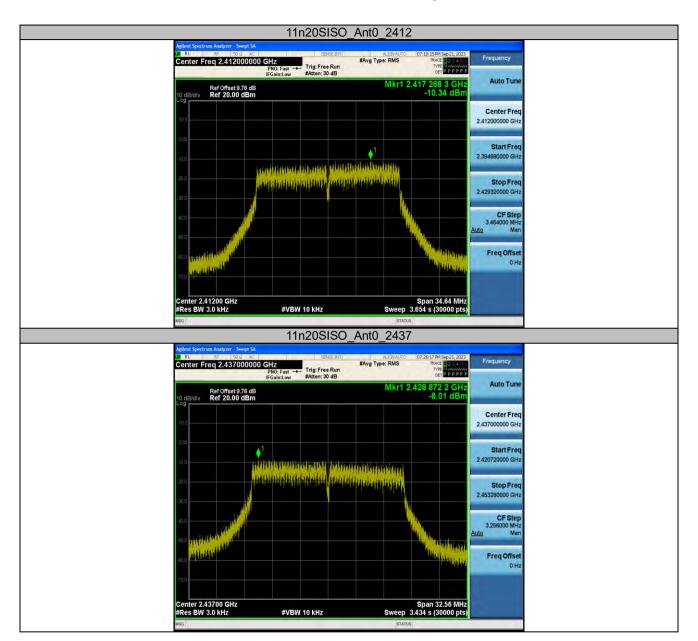
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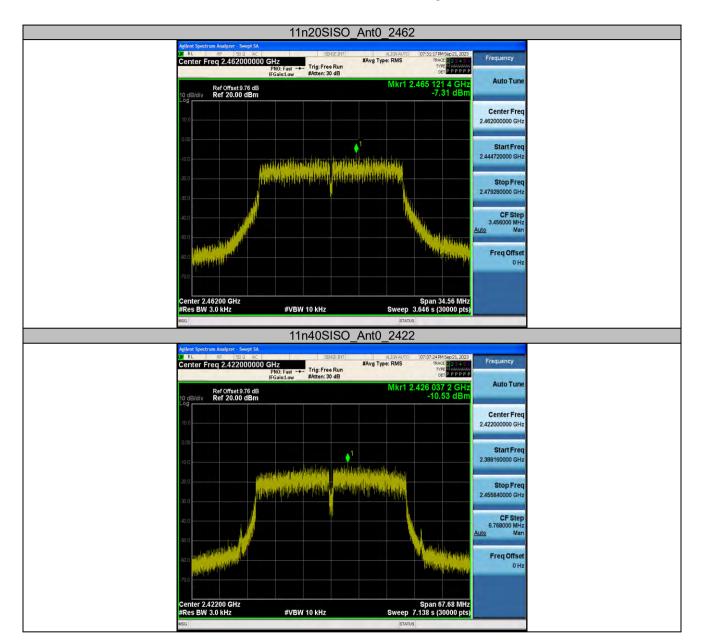
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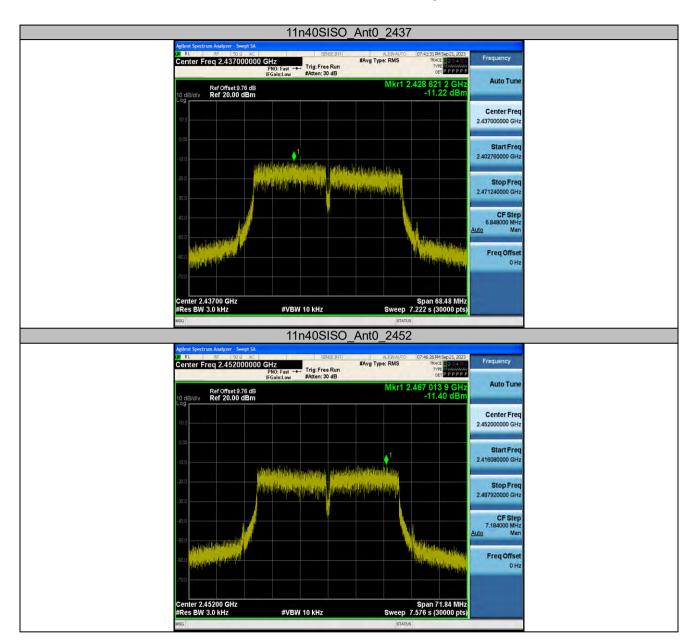
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Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant0	Low	2412	10.92	-37.36	≤-9.08	PASS
110		High	2462	12.60	-46.88	≤-7.4	PASS
110	Ant0	Low	2412	3.24	-36.17	≤-16.76	PASS
11g		High	2462	5.95	-42.36	≤-14.05	PASS
11n20SISO	Ant0	Low	2412	3.51	-34.05	≤-16.49	PASS
1111203130		High	2462	5.93	-40.77	≤-14.08	PASS
11n40SISO	AntO	Low	2422	3.49	-32.31	≤-16.51	PASS
1111403130	Ant0	High	2452	3.33	-35.98	≤-16.67	PASS



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Test Graphs





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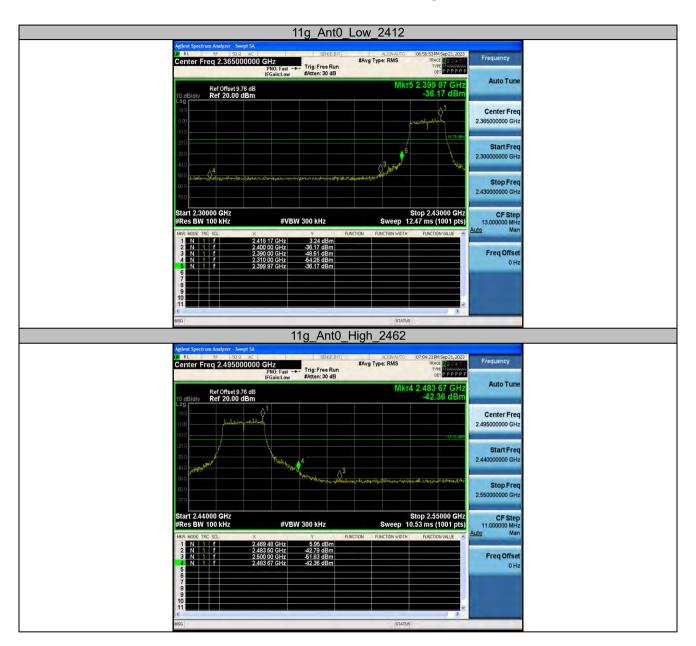
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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
			Reference	10.02	10.02		PASS
		2412	30~1000	10.02	-59.4	≤-9.98	PASS
			1000~26500	10.02	-44.82	≤-9.98	PASS
			Reference	12.26	12.26		PASS
11b	Ant0	2437	30~1000	12.26	-59.21	≤-7.74	PASS
			1000~26500	12.26	-45.21	≤-7.74	PASS
			Reference	10.85	10.85		PASS
		2462	30~1000	10.85	-59.66	≤-9.15	PASS
			1000~26500	10.85	-44.51	≤-9.15	PASS
			Reference	2.25	2.25		PASS
		2412	30~1000	2.25	-59.54	≤-17.75	PASS
			1000~26500	2.25	-45.42	≤-17.75	PASS
			Reference	3.38	3.38		PASS
11g	Ant0	2437	30~1000	3.38	-59.55	≤-16.62	PASS
· ·			1000~26500	3.38	-44.93	≤-16.62	PASS
			Reference	3.33	3.33		PASS
			30~1000	3.33	-59.28	≤-16.67	PASS
			1000~26500	3.33	-44.84	≤-16.67	PASS
		2412	Reference	-0.34	-0.34		PASS
			30~1000	-0.34	-57.5	≤-20.34	PASS
			1000~26500	-0.34	-45.35	≤-20.34	PASS
			Reference	4.28	4.28		PASS
11n20SISO	Ant0	2437	30~1000	4.28	-59.39	≤-15.72	PASS
			1000~26500	4.28	-45.21	≤-15.72	PASS
			Reference	4.03	4.03		PASS
		2462	30~1000	4.03	-58.73	≤-15.97	PASS
		_	1000~26500	4.03	-45.62	≤-15.97	PASS
			Reference	3.35	3.35		PASS
		2422	30~1000	3.35	-59.74	≤-16.65	PASS
			1000~26500	3.35	-45.44	≤-16.65	PASS
		Ant0 2437 2452	Reference	2.99	2.99		PASS
11n40SISO	Ant0		30~1000	2.99	-59.78	≤-17.01	PASS
			1000~26500	2.99	-45.27	≤-17.01	PASS
			Reference	1.58	1.58		PASS
			30~1000	1.58	-59.32	≤-18.42	PASS
			1000~26500	1.58	-45.04	≤-18.42	PASS



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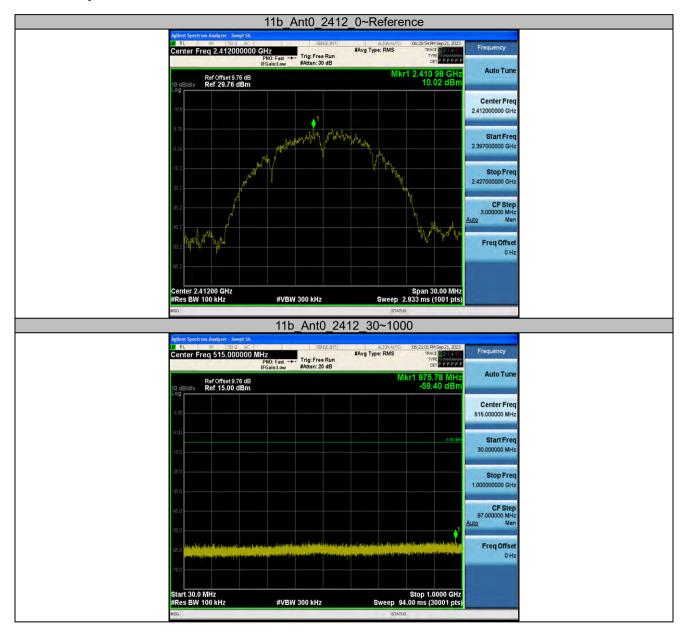


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Test Graphs





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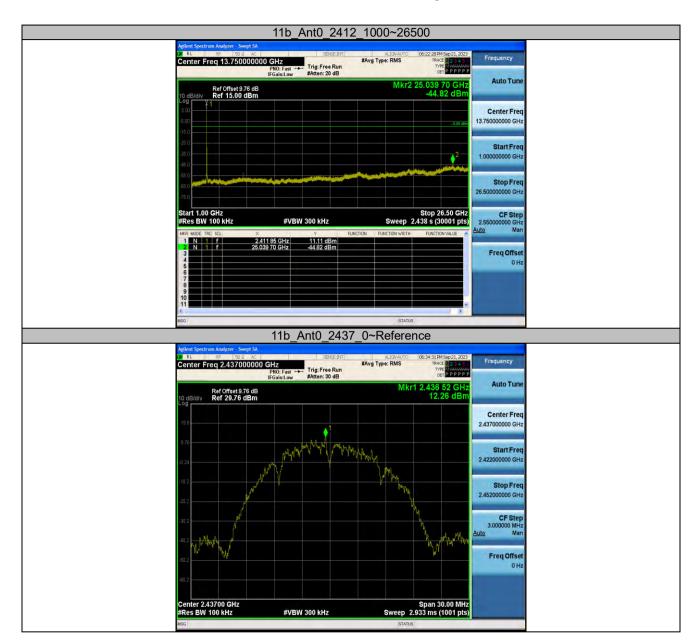
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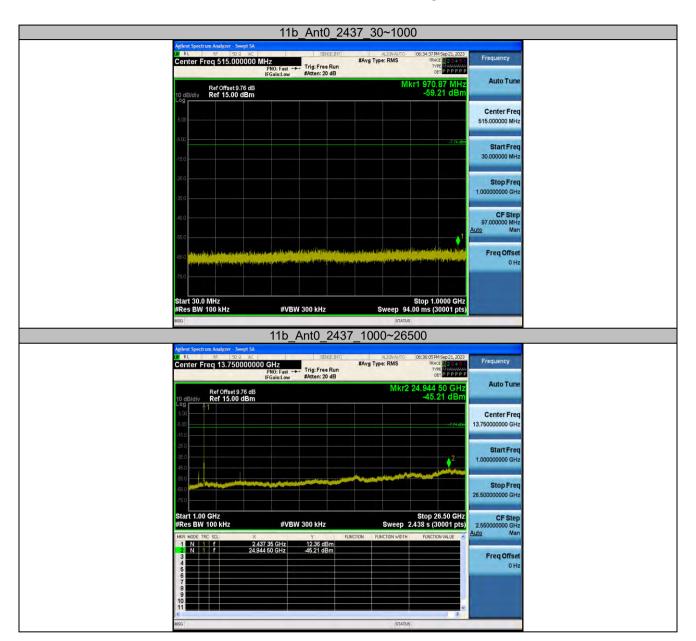
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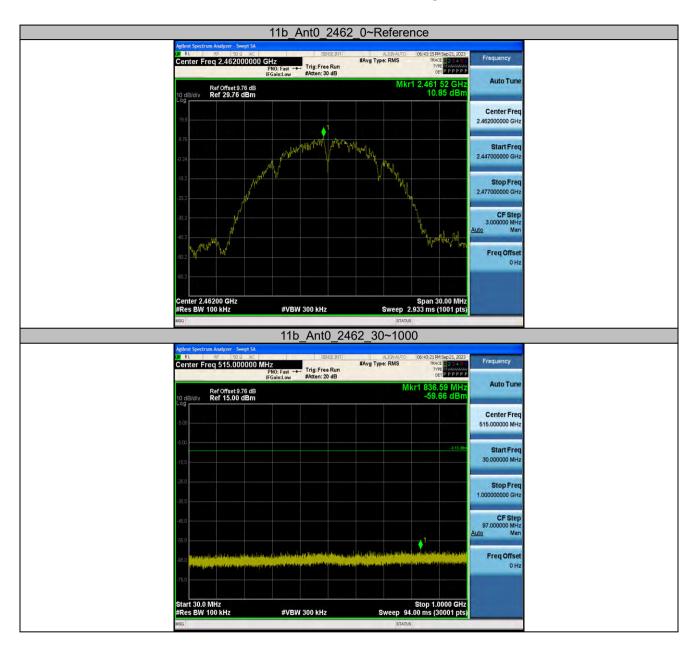
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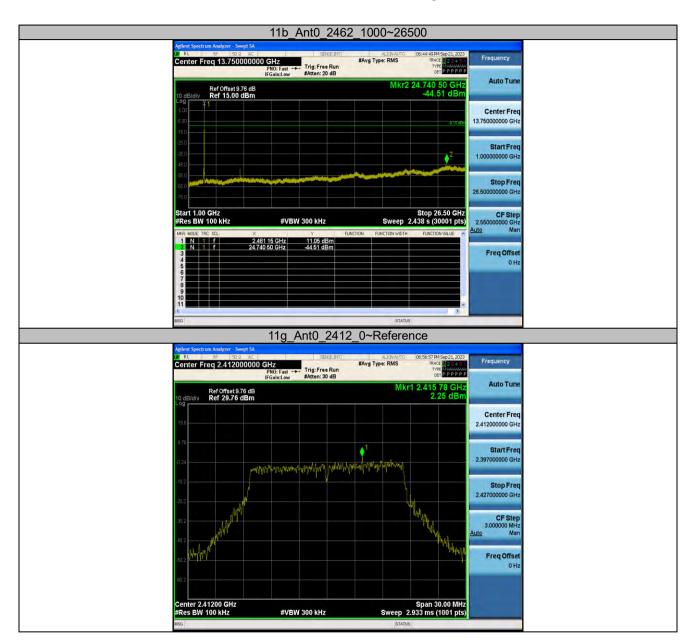
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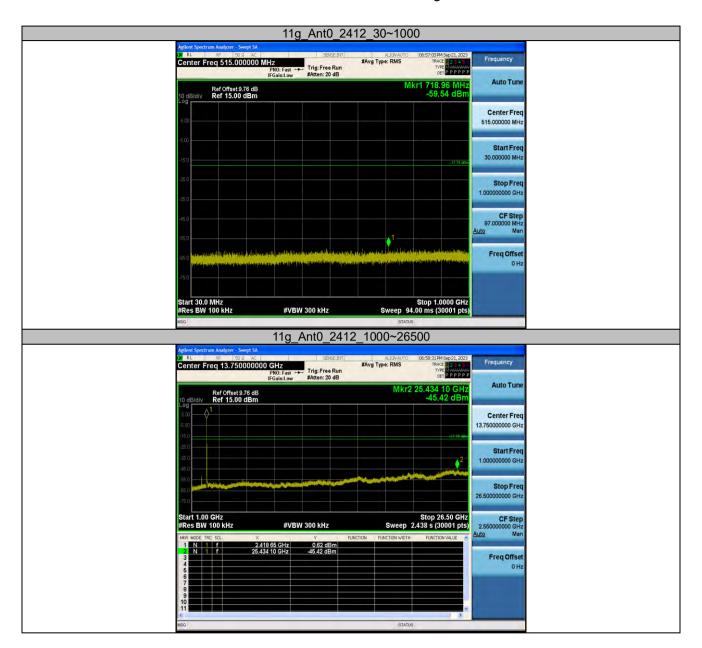
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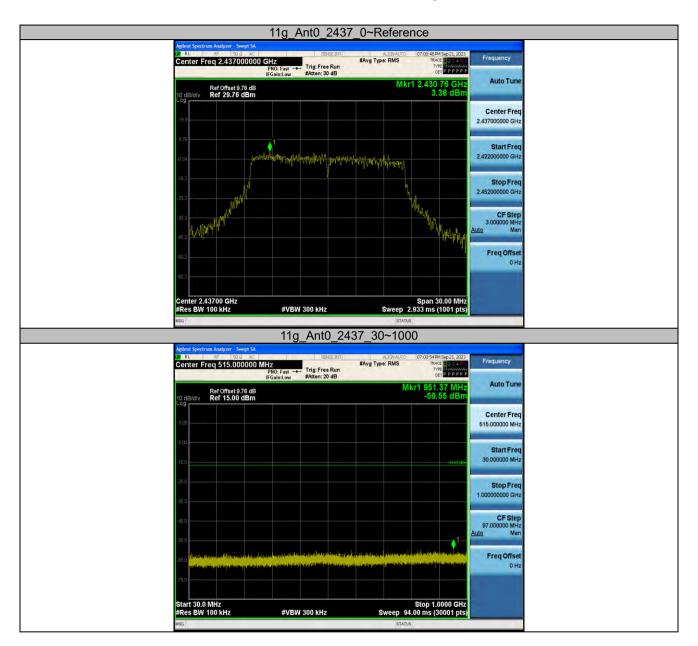
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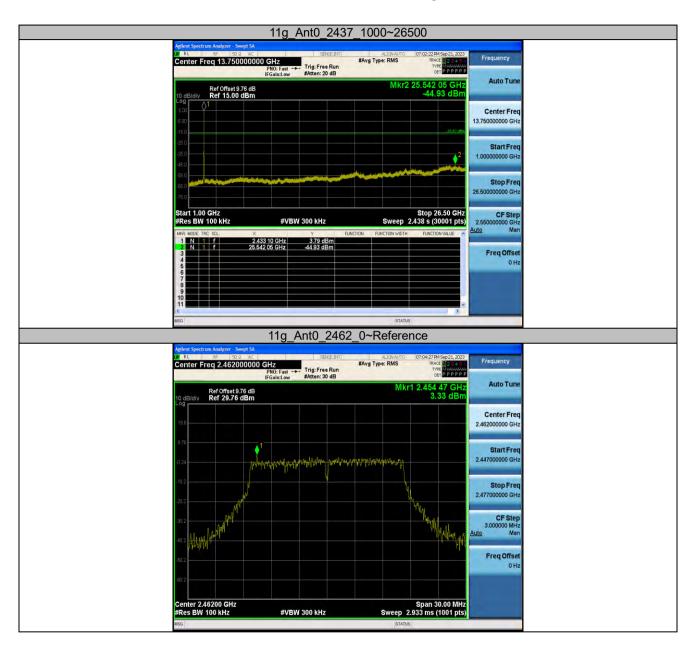
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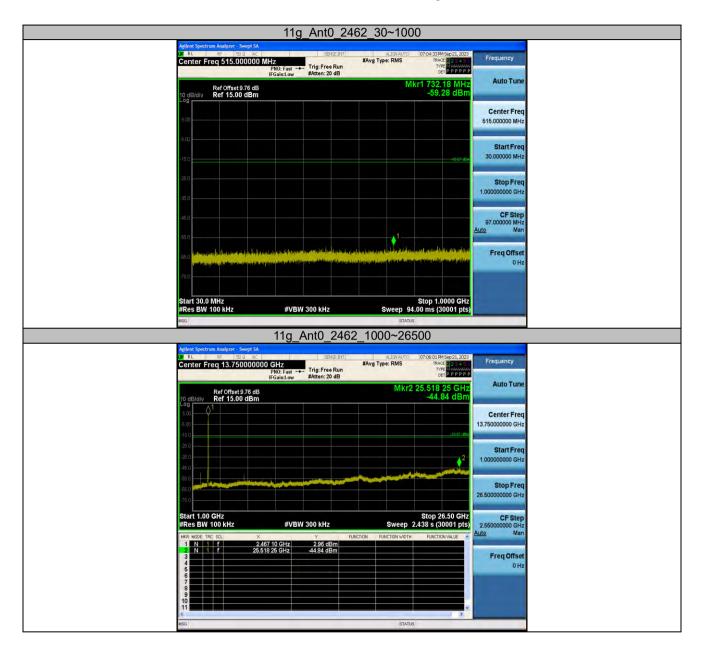
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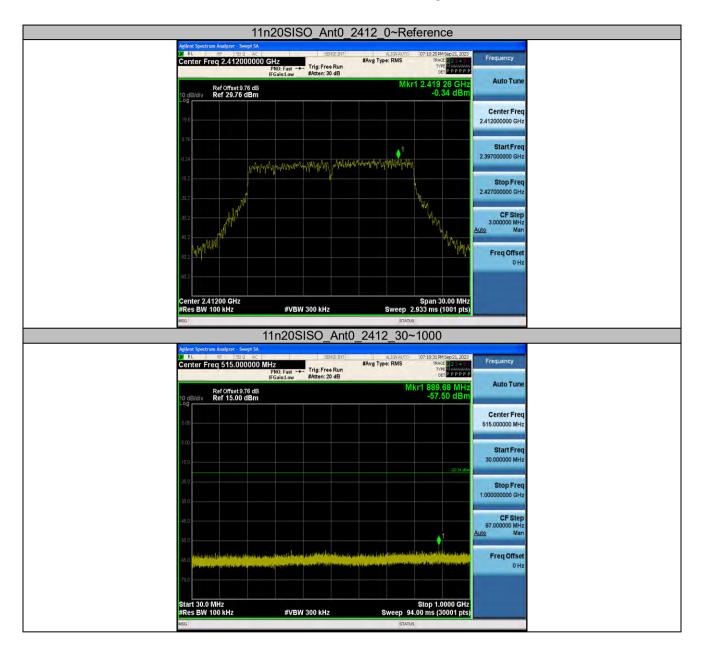
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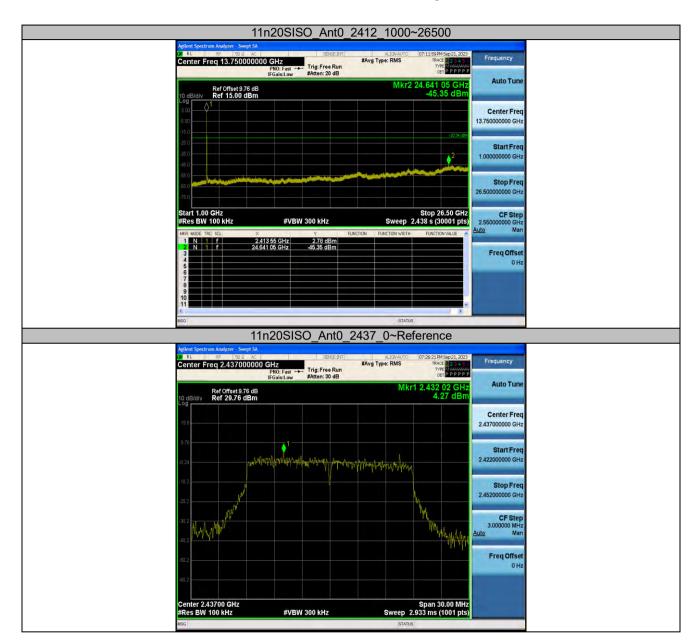
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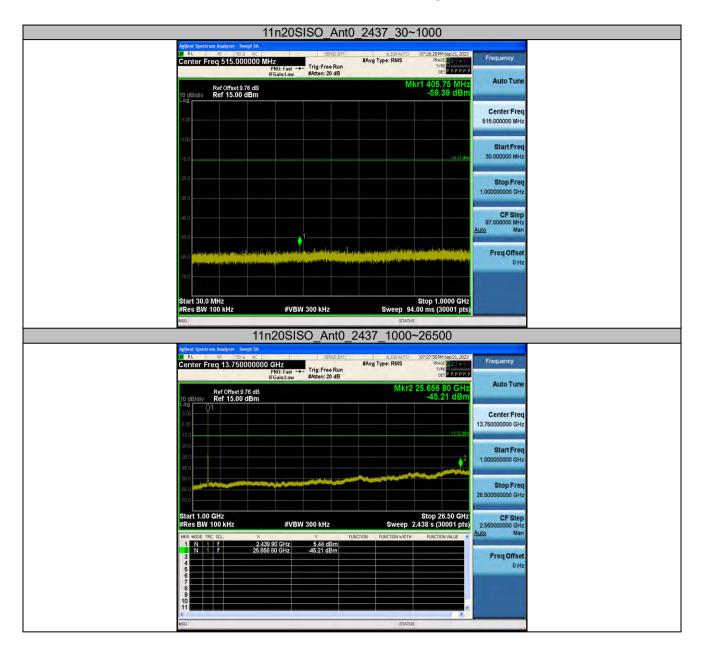
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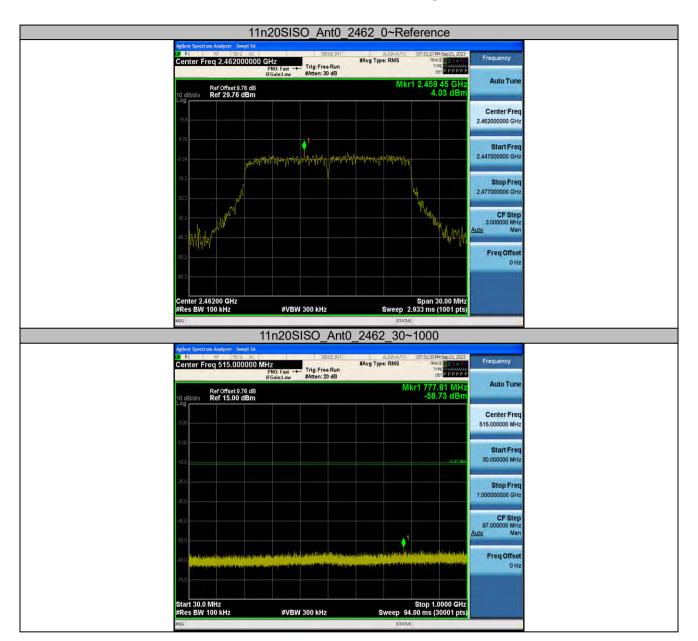
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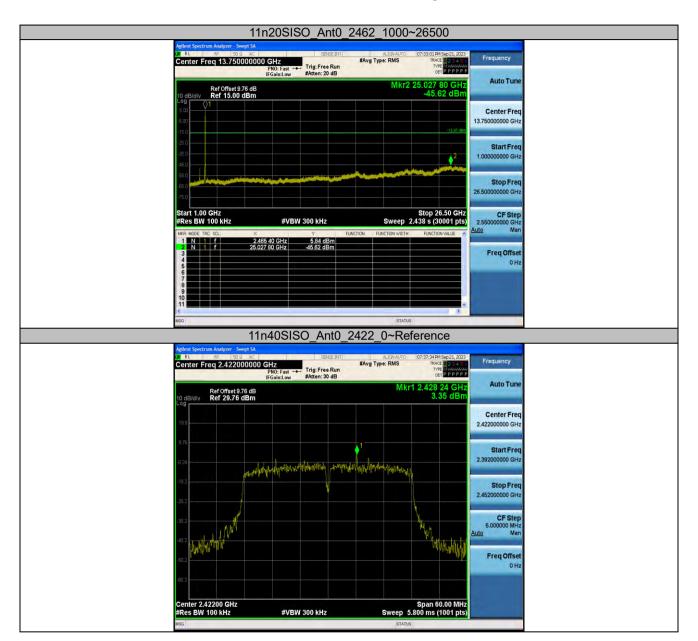
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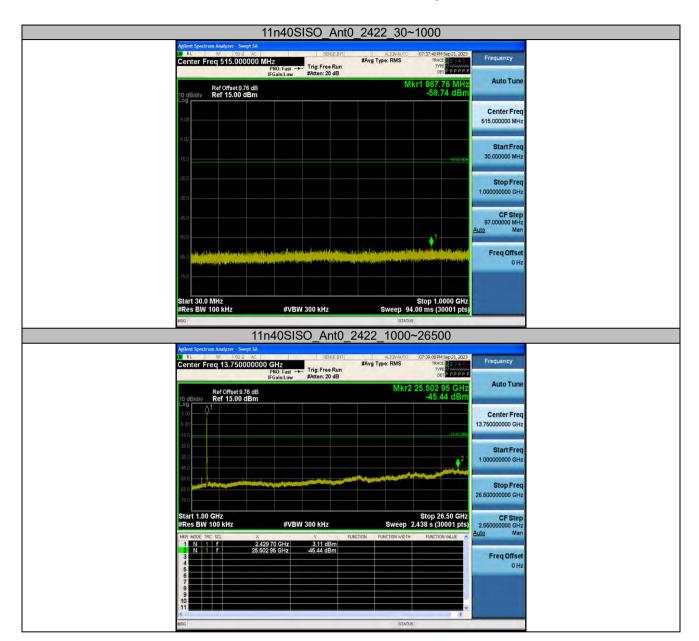
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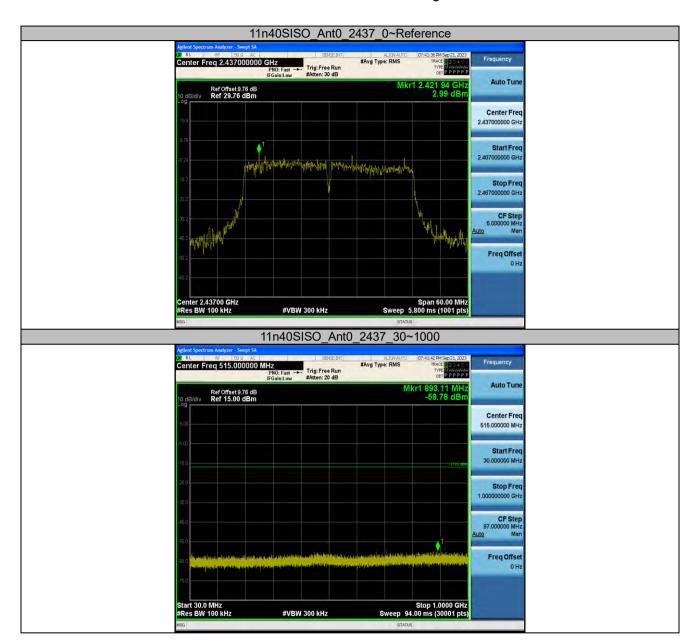
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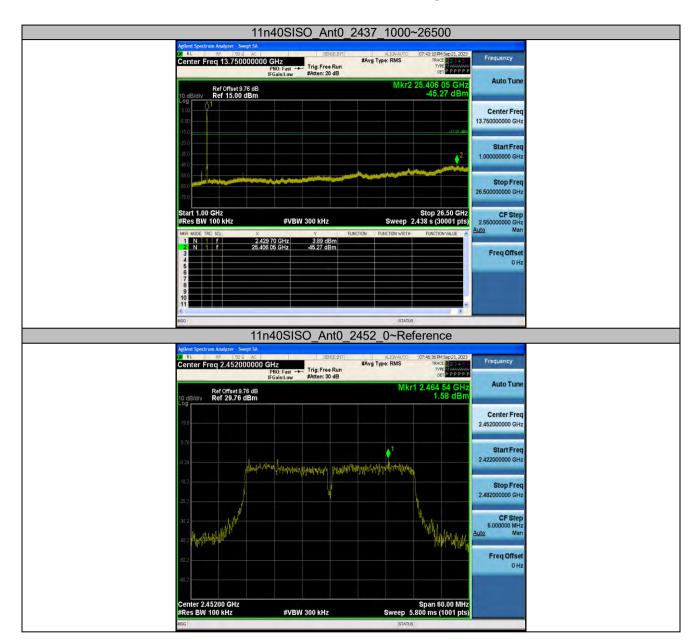
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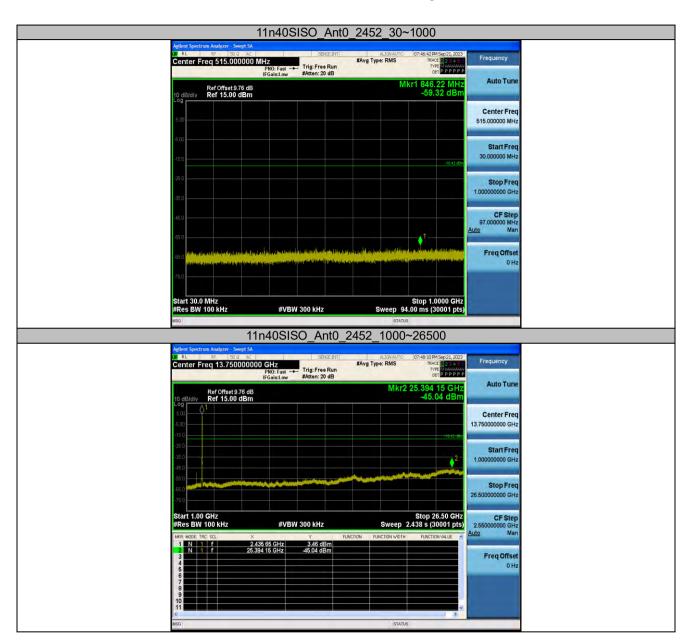
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
		2412	12.41	12.48	99.44	0.02
11b	Ant0	2437	12.42	12.57	98.81	0.05
		2462	12.42	12.53	99.12	0.04
		2412	2.06	2.21	93.21	0.31
11g	Ant0	2437	2.07	2.24	92.41	0.34
		2462	2.06	2.23	92.38	0.34
		2412	1.92	1.96	97.96	0.09
11n20SISO	Ant0	2437	1.92	2.07	92.75	0.02 0.05 0.04 0.31 0.34 0.34 0.09 0.33 0.37 0.99 0.99
		2462	1.92	2.09	91.87	0.37
		2422	0.94	1.18	79.66	0.99
11n40SISO	Ant0	2437	0.94	1.18	79.66	0.99
		2452	0.94	1.06	88.68	0.52

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	12.41	12.48	100	0.08058	10Hz*
11g	2.06	2.21	93.21	0.48543	0.51KHz
11n20SISO	1.92	1.96	97.96	0.52083	0.56KHz
11n40SISO	0.94	1.18	79.66	1.06382	1.1KHz

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



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Test Graphs





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