

Report No.: SEWA2204000011RG04

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TEST REPORT

Application No.: SEWA2204000011RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

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

Minhord District Changhai China 200323

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: Multi-mode Smart LTE Module

Model No.: SC690A-NA

Trade Mark: Quectel

FCC ID: XMR2022SC690ANA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/08/05

Date of Test: 2022/08/15 to 2022/09/01

Date of Issue: 2022/09/06

Test Result : PASS *

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022/09/06		Original	

Prepared By	(Tizzy Song) / Test Engineer
Checked By	(Well Wei) / 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			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



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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 Tianlin 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 (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Lves Cheng, Tizzy Song

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Multi-mode Smart LTE Module			
Model No.:	SC690A-NA			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	SC690ANAP	AR02A02		
	RF Conducte	ed	867269050	014144
IMEI:	RSE & AC po	ower line	867269050 867269050	
Operation Fraguency	802.11b/g/n(HT20):		2412MHz to 2462MHz
Operation Frequency:	802.11n(HT4	0):		2422MHz to 2452MHz
Maddadada Tura	802.11b:	DSSS (DBF	PSK, DQPSK	, CCK)
Modulation Type:	802.11g/n:	OFDM (BPS	SK, QPSK, 1	6QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7			
Channel Spacing:	5MHz			
	⊠ SISO	802.11b/g/r		
		STBC: 802.11n/VHT/ax: Tx & Rx		Tx & Rx
Smart System:	│	TXBF: 802.	11n/VHT/ax:	Tx & Rx
	Diversity	802.11b/g:	Tx & Rx	
Antenna Type:	External Anta	anna		
	0.47dBi			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1dB			
Remark:	1			
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	1 ago. 7 61 110						
	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	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(℃) Voltage(V)		
NTNV	22~23 3.8		

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Quectel	SMART-EVB-G5		
Adaptor	Something High Innovation (B.V.I.) Co., Ltd	P12F050200		
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	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.47dBi .*

*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 Sectio	n 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:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet straingle 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 LIS unit under test and bond mounted on top of the ground televant point the EUT and associated In order to find the maxim	ed with a vertical ground refern from the vertical ground reference plane was bonded to the hosen 1 was placed 0.8 m from the doto a ground reference plane. This dots of the LISN 1 and the EUT equipment was at least 0.8 mmm emission, the relative pointerface cables must be charten.	ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a exceeded. It table 0.8m above the lement, the EUT was erence plane. The rear erence plane. The virzontal ground the boundary of the lement of LISNs listance was T. All other units of the form the LISN 2. ositions of		



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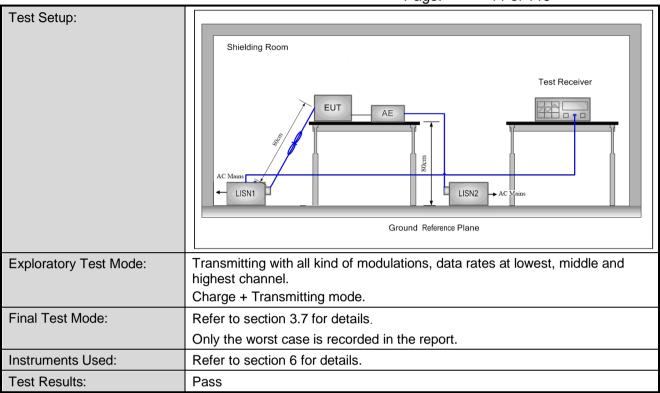
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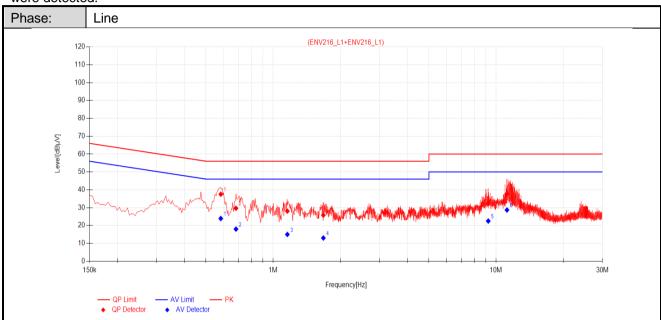
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Measurement Data

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.



Final	Data List										
NO.	Frequency [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	0.5820	10.52	27.00	37.52	56.00	18.48	13.42	23.94	46.00	22.06	PASS
2	0.6810	10.57	19.10	29.67	56.00	26.33	7.44	18.01	46.00	27.99	PASS
3	1.1580	10.72	17.36	28.08	56.00	27.92	4.29	15.01	46.00	30.99	PASS
4	1.6800	10.75	15.08	25.83	56.00	30.17	2.28	13.03	46.00	32.97	PASS
5	9.2310	10.66	21.75	32.41	60.00	27.59	11.86	22.52	50.00	27.48	PASS
6	11.1975	10.61	27.15	37.76	60.00	22.24	18.08	28.69	50.00	21.31	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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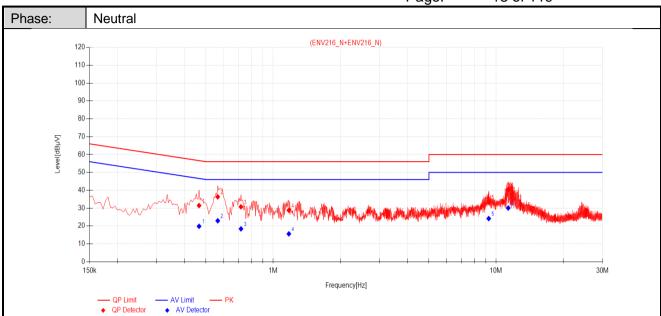
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.4650	10.81	20.65	31.46	56.60	25.14	9.03	19.84	46.60	26.76	PASS
2	0.5640	10.73	25.59	36.32	56.00	19.68	12.20	22.93	46.00	23.07	PASS
3	0.7170	10.81	19.94	30.75	56.00	25.25	7.59	18.40	46.00	27.60	PASS
4	1.1760	10.76	18.02	28.78	56.00	27.22	4.84	15.60	46.00	30.40	PASS
5	9.2760	10.64	22.97	33.61	60.00	26.39	13.53	24.17	50.00	25.83	PASS
6	11.3460	10.65	29.78	40.43	60.00	19.57	19.41	30.06	50.00	19.94	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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4.3 Duty Cycle

The detailed test data see: Appendix



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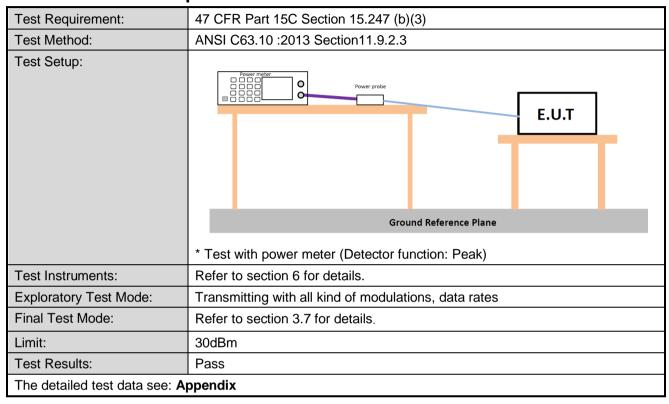


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4.4 Conducted Output Power





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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 Tester RF Control Unit Communication Tester RF Control Unit Communication Tester RF Control Unit Communication Tester Communication Tester RF Control Unit Communication Tester Communication Tester RF Control Unit Communication Tester Tester Communication Tester Tes				
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				
Test Results:	Pass				
The detailed test data see: Ap	pendix				



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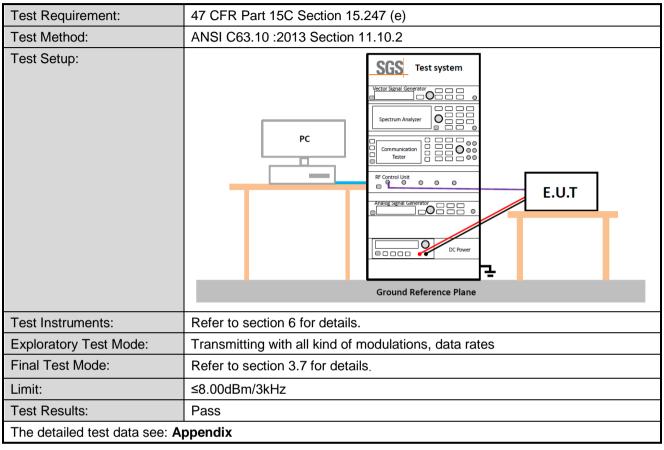


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4.6 Power Spectral Density





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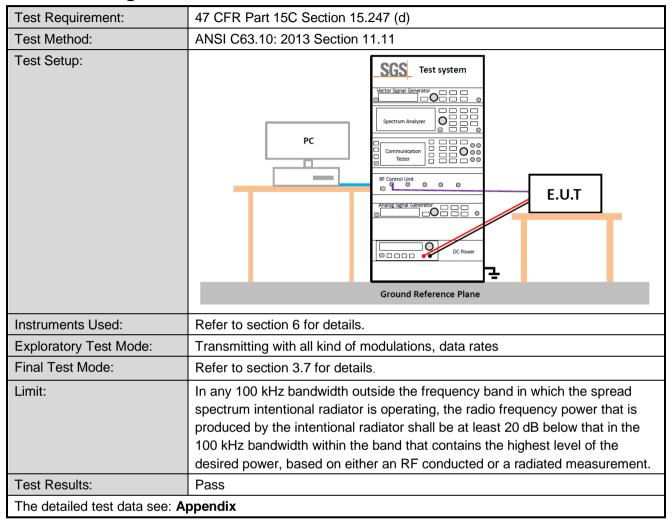


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4.7 Band-edge for RF Conducted Emissions





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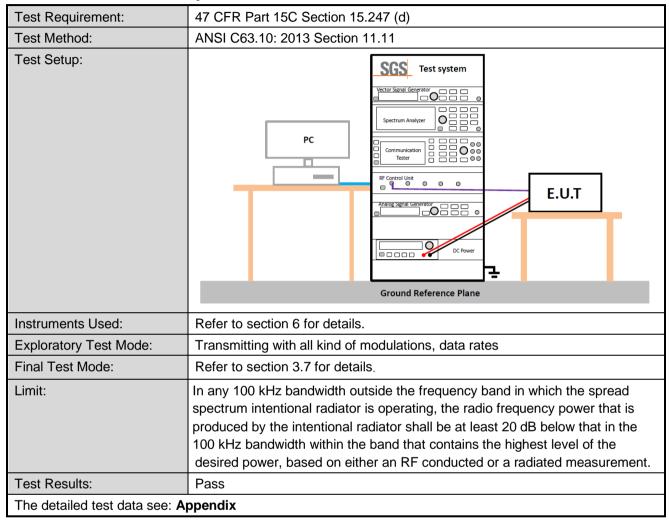


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

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			
	Abovo 10Hz	Peak	1MHz	3MHz	Peak			
	Above 1GHz	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 by the device.							



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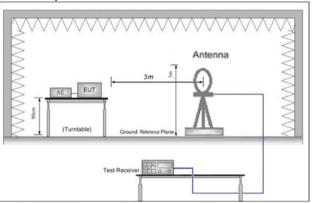
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Test Setup:



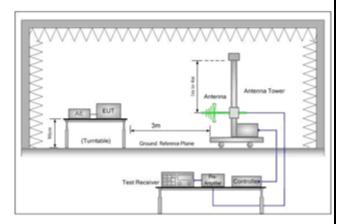


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

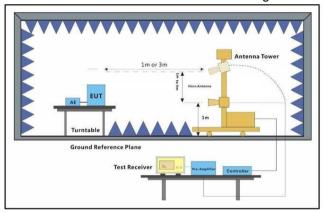


Figure 3. Above 1 GHz

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 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



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	maximum reading.					
	 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.					
	 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					
	 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. 					
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 					
Test Configuration:	Measurements Below 1000MHz					
	• RBW = 120 kHz					
	• VBW = 300 kHz					
	Detector = 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 ≥ [3 *RBW]					
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.					
	Sweep time = auto					
	Perform a trace average of at least 100 traces.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
	Charge + Transmitting mode.					
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	E Appendix					



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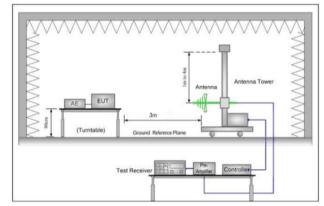
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
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:





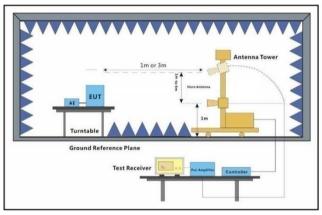


Figure 2. Above 1 GHz



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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. Measurements Below 1000MHz RBW = 120 kHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 13 "RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2).		Page: 24 of 119
Test Configuration: Measurements Below 1000MHz RBW = 120 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz WBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz WBW ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces. Exploratory Test Mode: Transmitting with all kind of modulations, data rates.	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.
Exploratory Test Mode: Transmitting with all kind of modulations, data rates.	Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto
	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.



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	<u> </u>		
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	Total RF power, conducted	±0.54dB			
2	RF power density, conducted	±1.03dB			
3	Spurious emissions, conducted	±0.54dB			
4	Radio Frequency	±1.0 %			
5	Duty Cycle	±0.37%			
6	Occupied Bandwidth	±1.0 %			
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)			
		± 3.13dB (9k -30MHz)			
0	Radiated Emission	± 4.80dB (30M -1GHz)			
8	Radiated Effission	± 4.80dB (1GHz to 18GHz)			
		± 4.80dB (Above 18GHz)			

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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 Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03			
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/04	2022/12/03			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13			

CE Test System								
Equipment	Manufacturer	Model No. Inventory No.		Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15			
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			



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			raye.	20 01 119			
RSE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR		



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Photographs - Setup Photos 7

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	8.16	2407.92	2416.08	≥0.5	PASS
		2437	8.16	2432.92	2441.08	≥0.5	PASS
		2462	8.12	2457.92	2466.04	≥0.5	PASS
11g	Ant1	2412	16.00	2403.80	2419.80	≥0.5	PASS
		2437	15.36	2429.40	2444.76	≥0.5	PASS
		2462	15.56	2454.20	2469.76	≥0.5	PASS
11n20SISO	Ant1	2412	16.88	2403.52	2420.40	≥0.5	PASS
		2437	16.84	2428.56	2445.40	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11n40SISO	Ant1	2422	35.92	2404.32	2440.24	≥0.5	PASS
		2437	35.28	2419.32	2454.60	≥0.5	PASS
		2452	35.28	2434.32	2469.60	≥0.5	PASS



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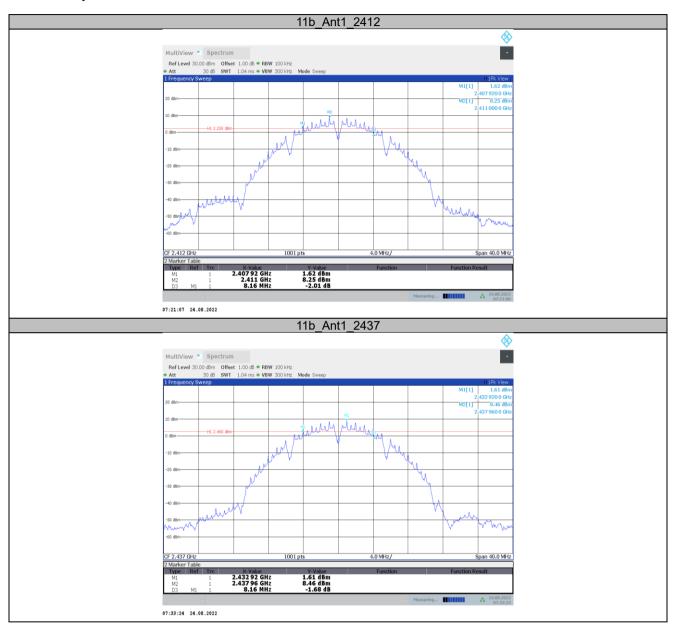


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Test Graphs





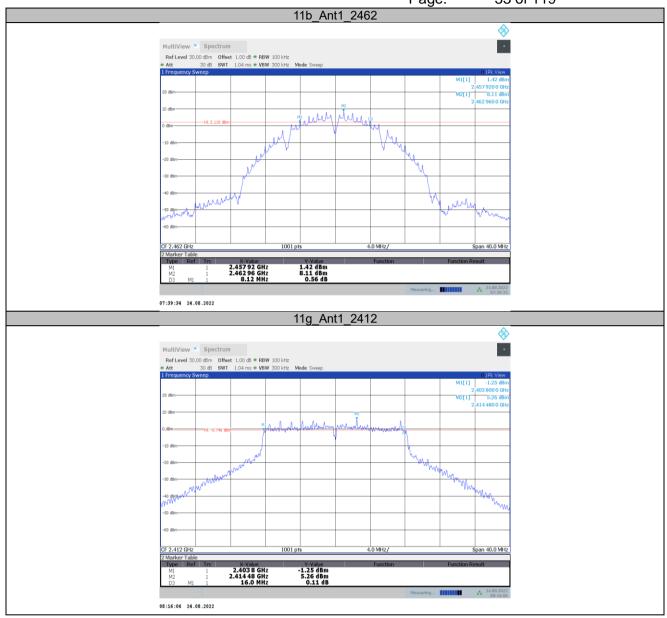
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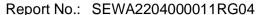




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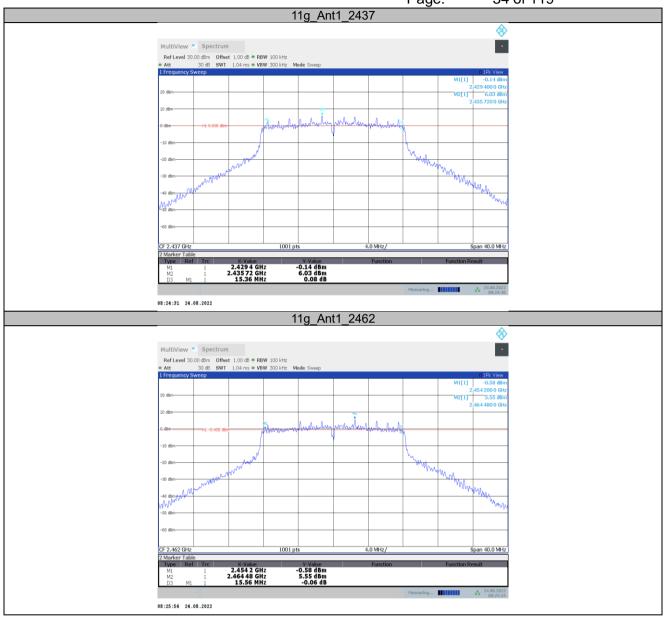
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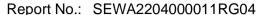


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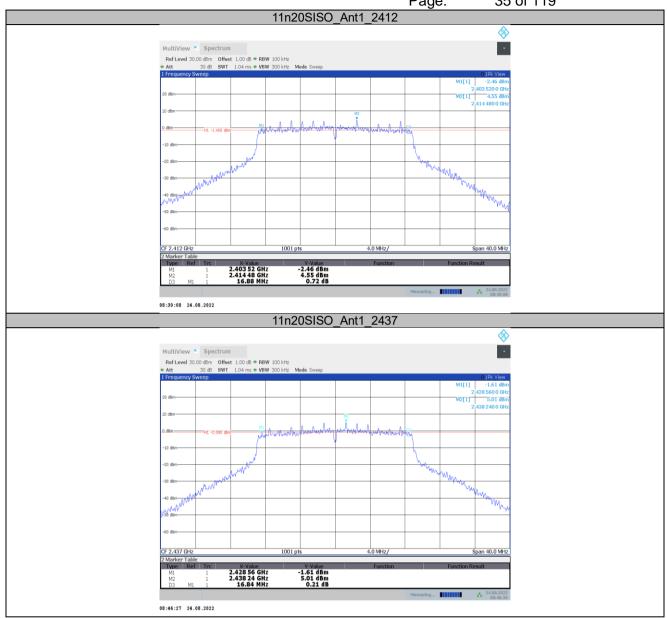
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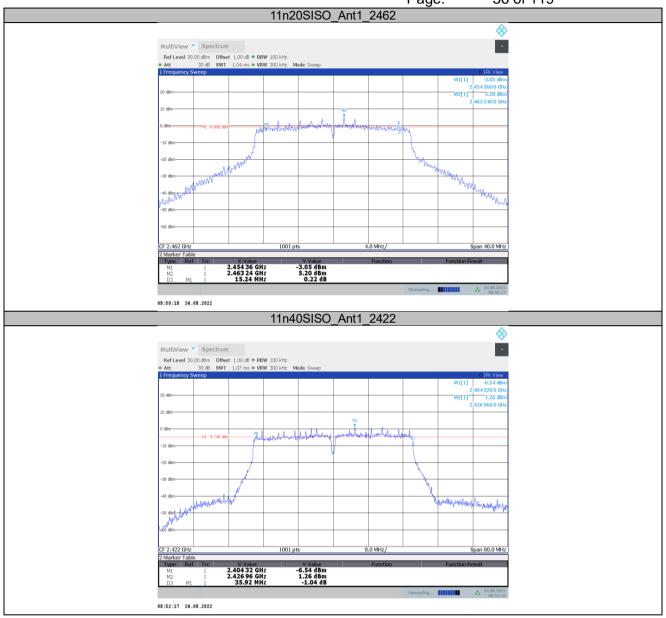
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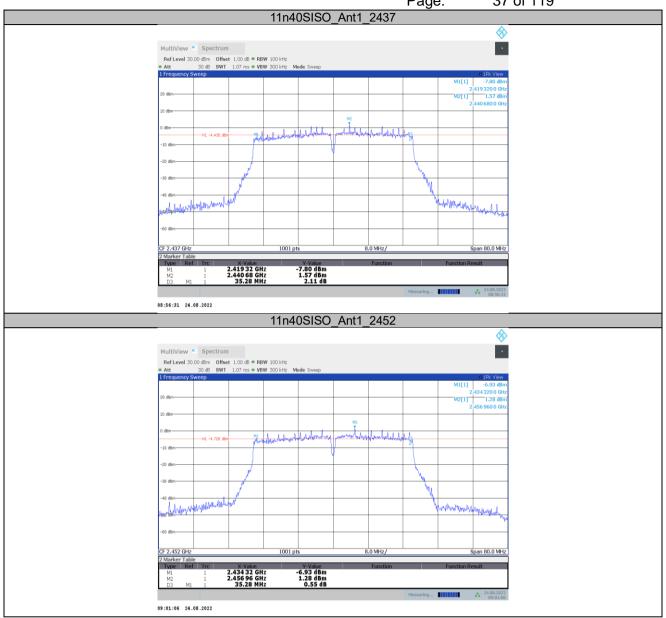
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant1	2412	13.583	2405.184	2418.767	
11b		2437	13.626	2430.287	2443.913	
		2462	13.572	2455.217	2468.789	
11g	Ant1	2412	16.937	2403.503	2420.440	
		2437	16.838	2428.628	2445.466	
		2462	16.844	2453.533	2470.377	Reporting
11n20SISO	Ant1	2412	18.128	2402.944	2421.072	only
		2437	18.061	2428.015	2446.076	
		2462	18.057	2452.945	2471.002	
11n40SISO	Ant1	2422	36.625	2403.839	2440.464	
		2437	36.425	2418.960	2455.385	
		2452	36.446	2433.873	2470.319	



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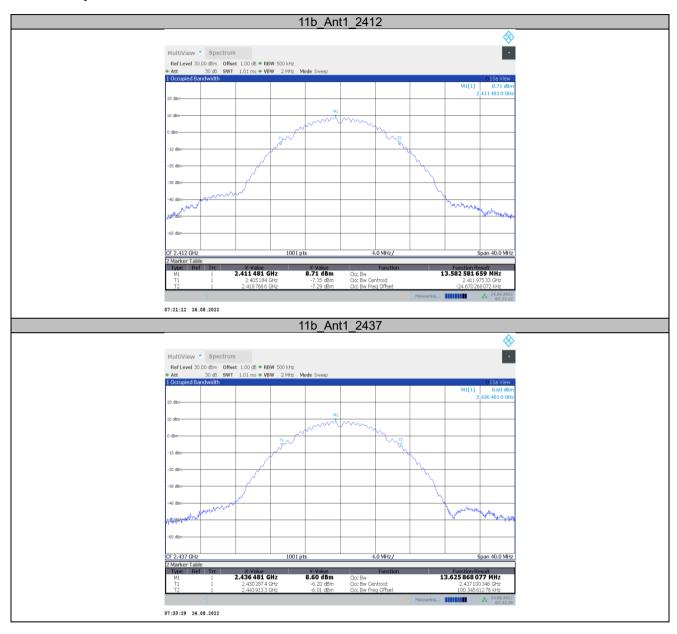


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Test Graphs





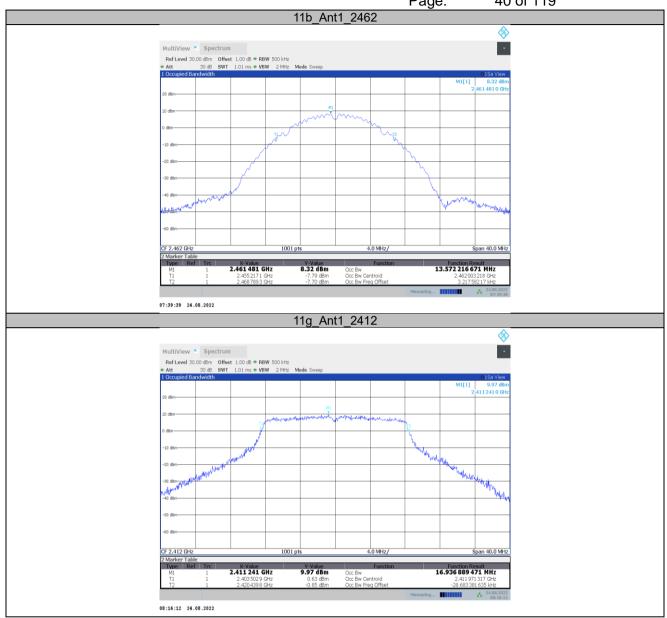
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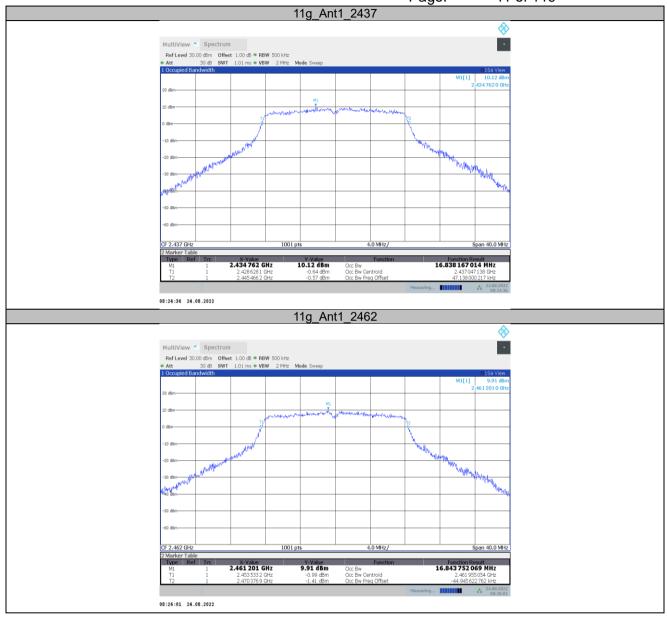
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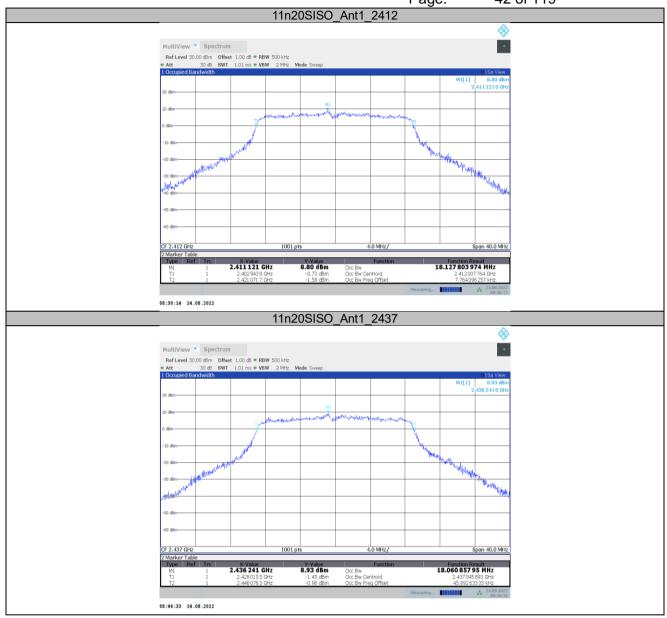
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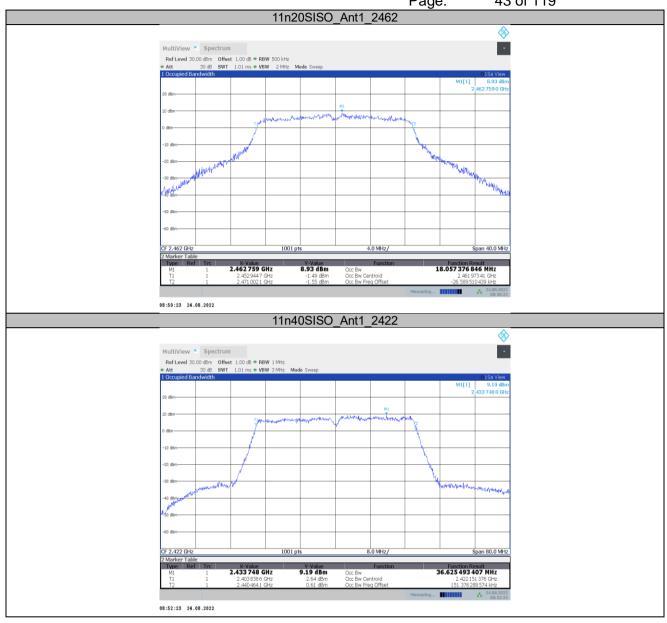
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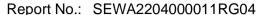




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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2412	18.78	≤30.00	PASS
11b	Ant1	2437	18.76	≤30.00	PASS
		2462	18.45	≤30.00	PASS
		2412	20.71	≤30.00	PASS
11g	Ant1	2437	20.64	≤30.00	PASS
		2462	20.78	≤30.00	PASS
	Ant1	2412	20.01	≤30.00	PASS
11n20SISO		2437	20.06	≤30.00	PASS
		2462	19.98	≤30.00	PASS
		2422	20.74	≤30.00	PASS
11n40SISO	Ant1	2437	20.64	≤30.00	PASS
		2452	20.61	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-10.44	≤8.00	PASS
11b	Ant1	2437	-9.82	≤8.00	PASS
		2462	-9.76	≤8.00	PASS
		2412	-11	≤8.00	PASS
11g	Ant1	2437	-10.24	≤8.00	PASS
		2462	-10.6	≤8.00	PASS
		2412	-11.16	≤8.00	PASS
11n20SISO	Ant1	2437	-11.23	≤8.00	PASS
		2462	-11.16	≤8.00	PASS
		2422	-15.2	≤8.00	PASS
11n40SISO	Ant1	2437	-14	≤8.00	PASS
		2452	-14.47	≤8.00	PASS



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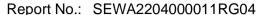




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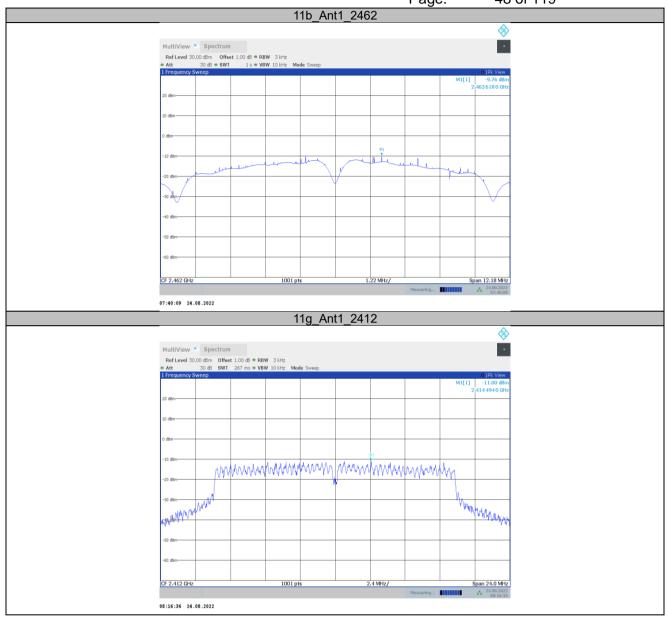
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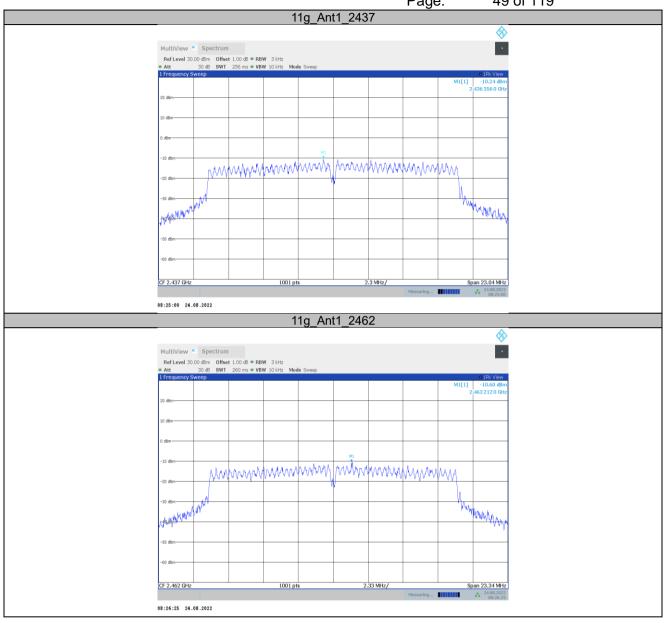
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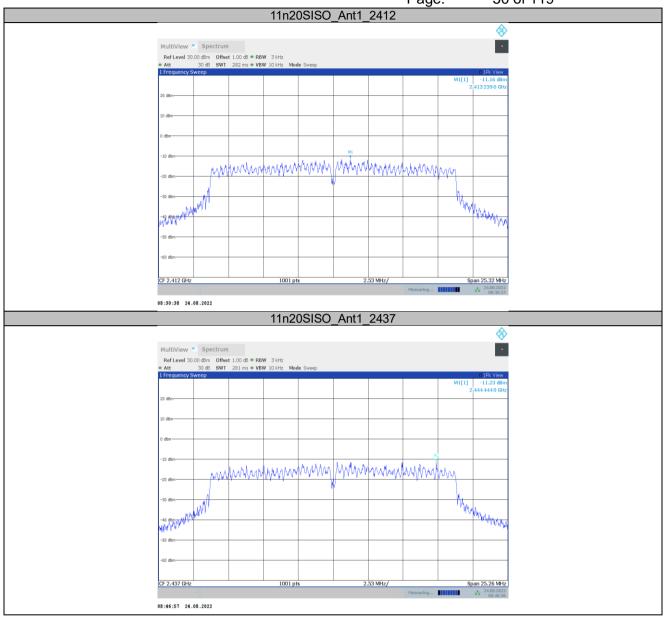
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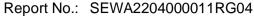


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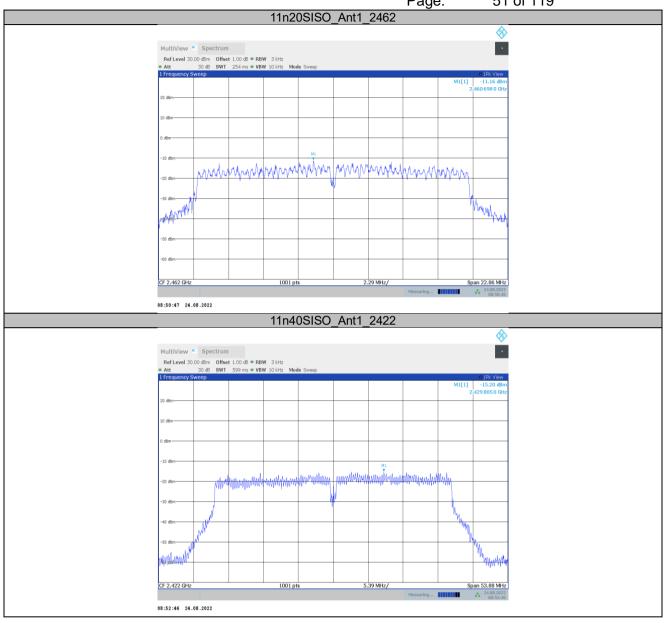
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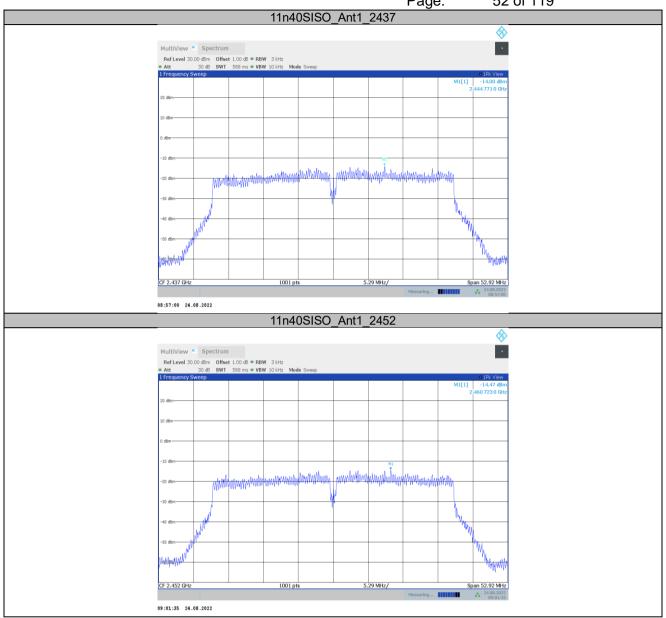
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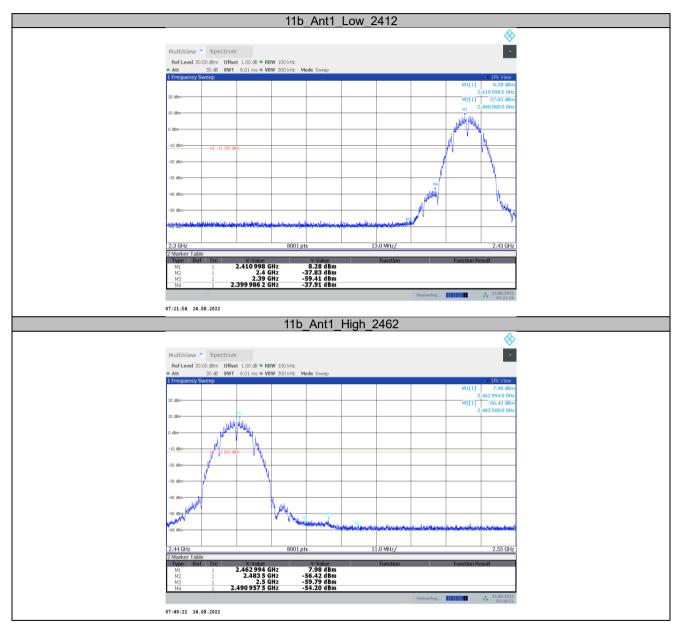


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Band edge measurements Test Graphs





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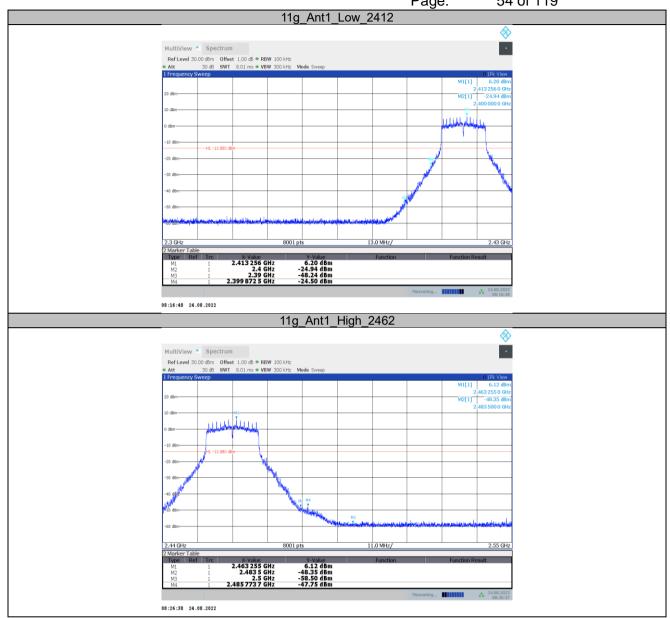
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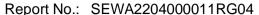


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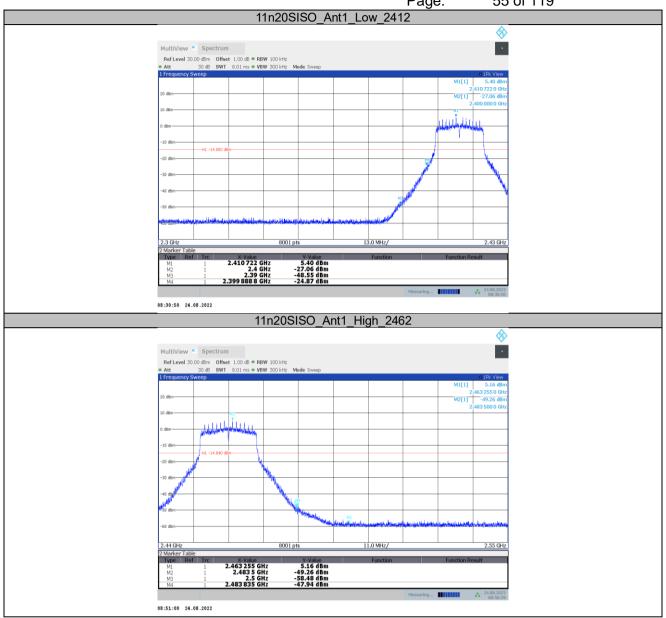
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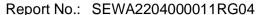


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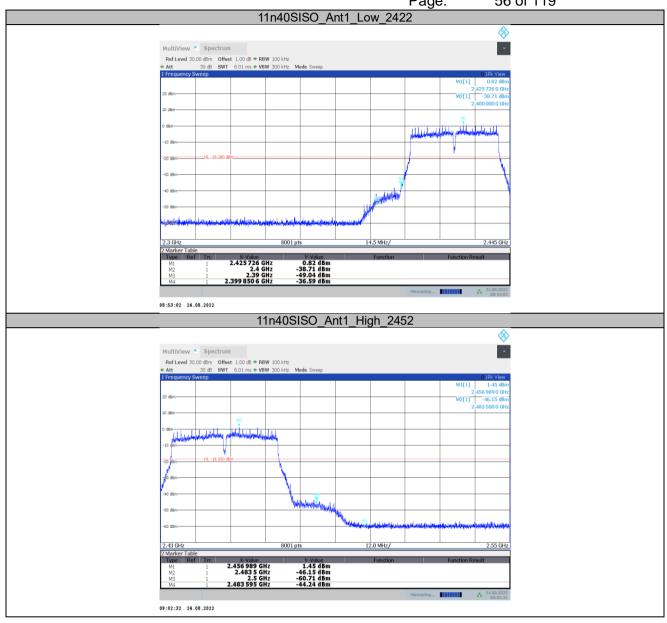
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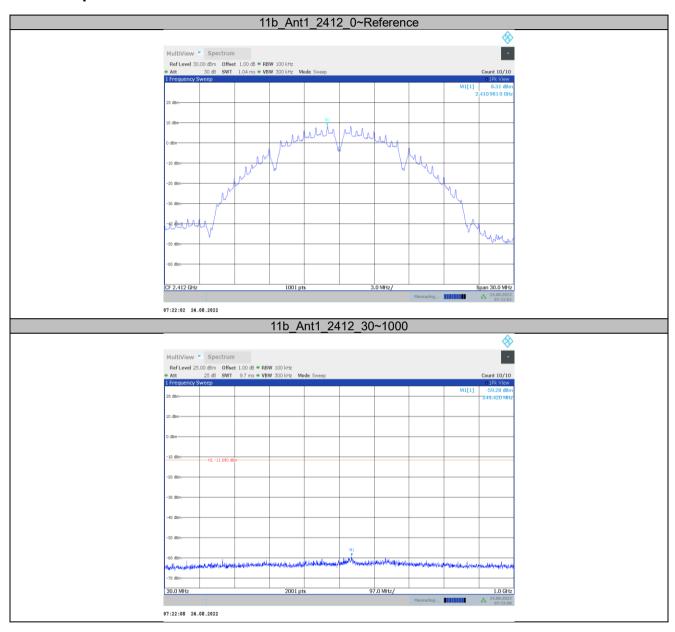


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Conducted Spurious Emission Test Graphs

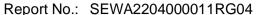




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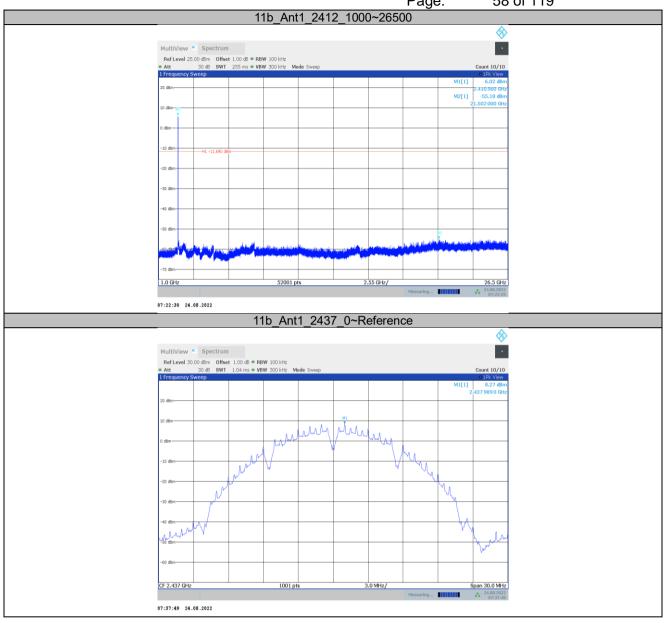
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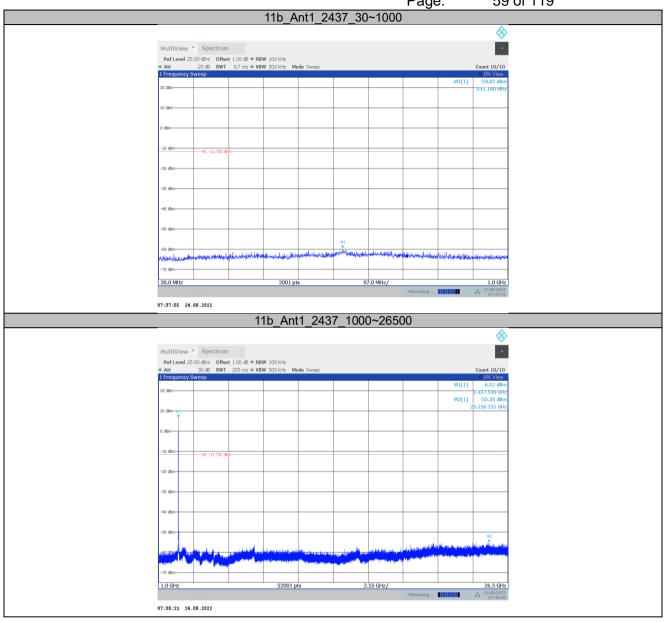
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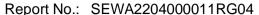




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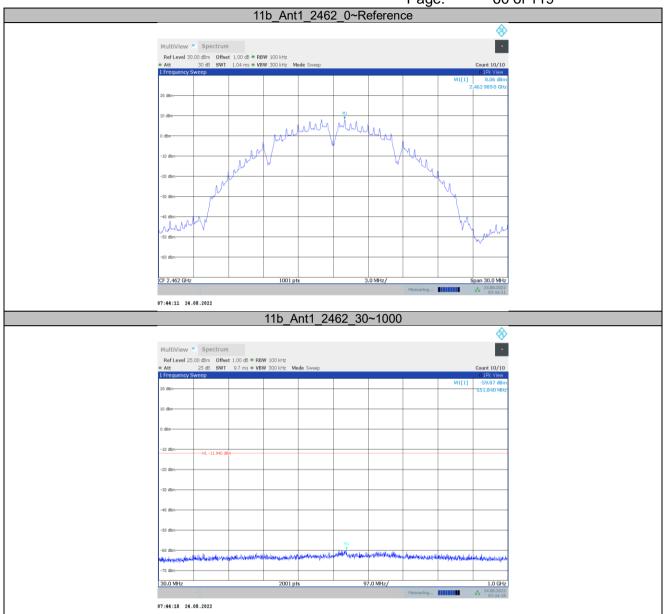
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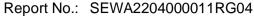




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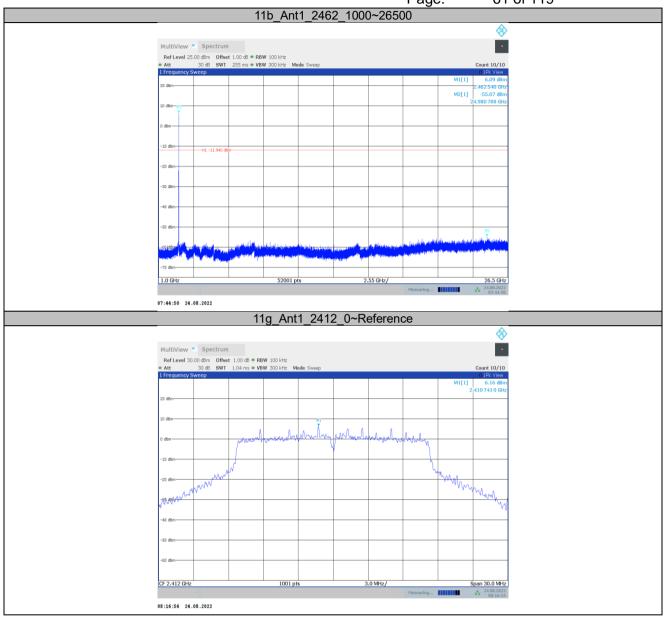
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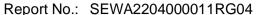


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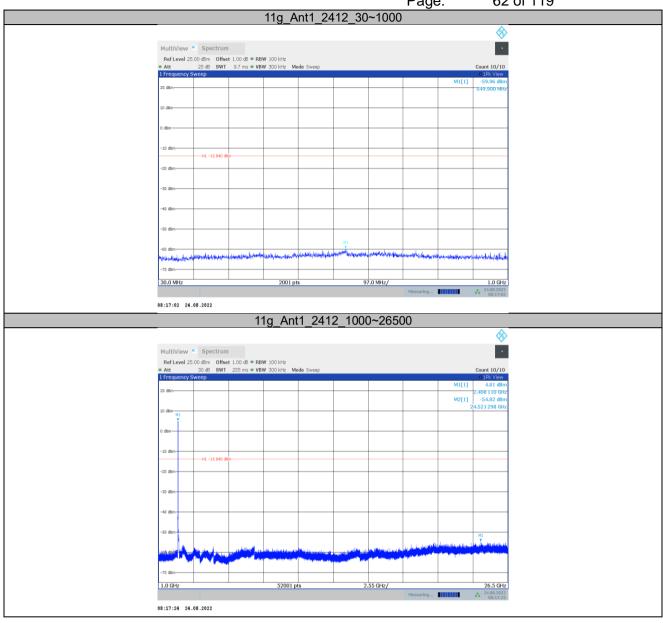
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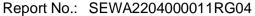




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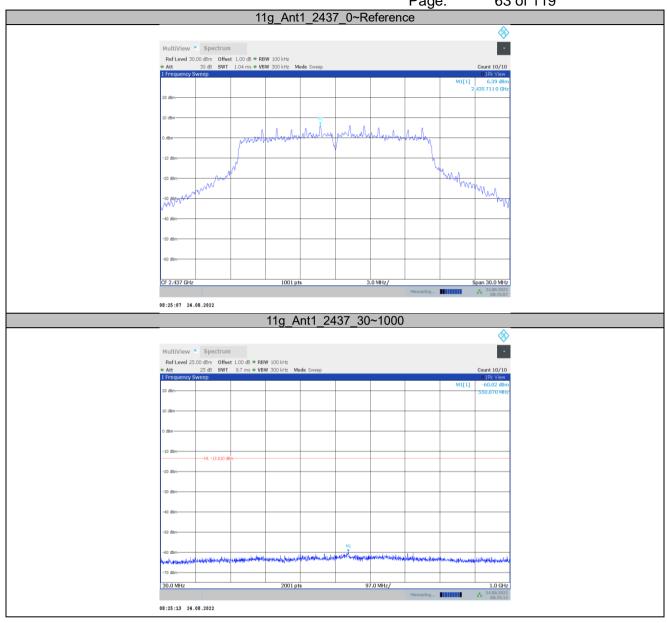
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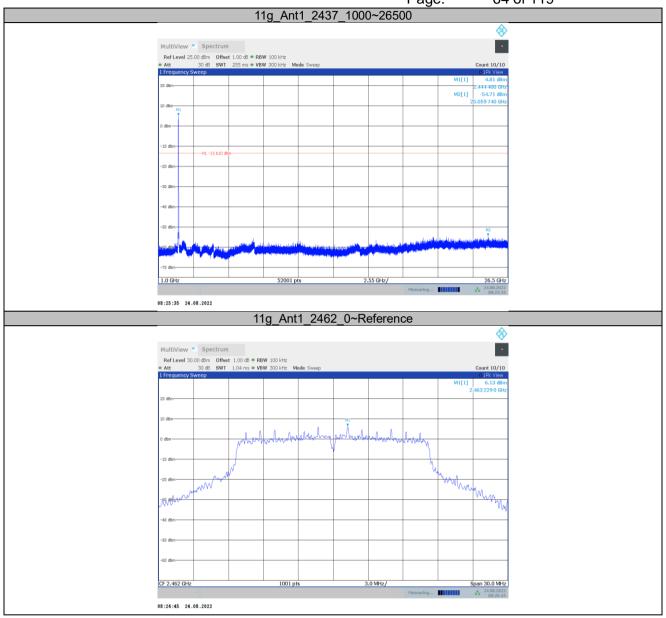
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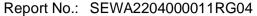




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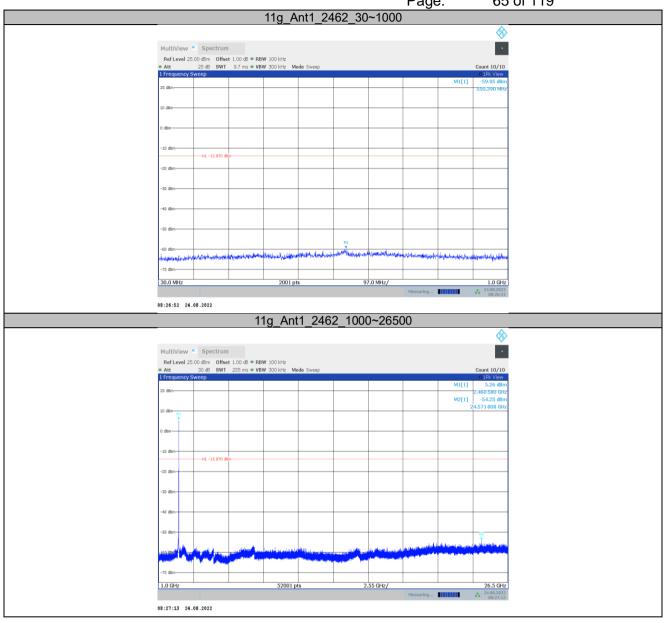
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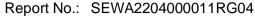




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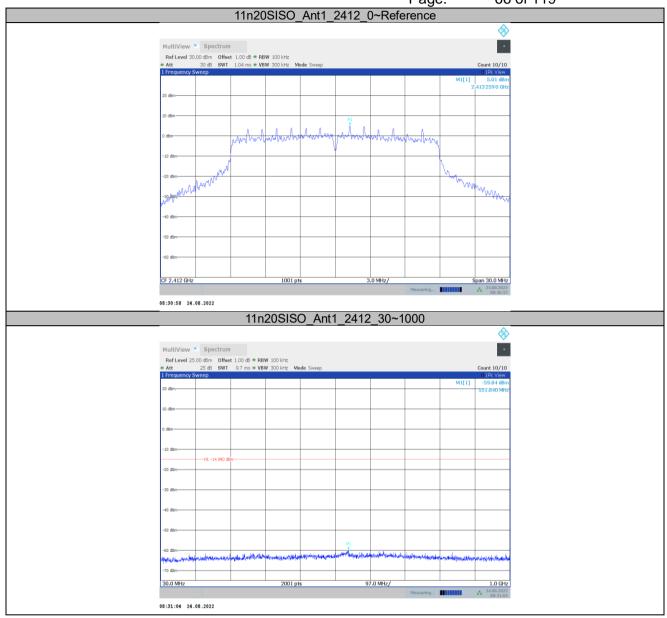
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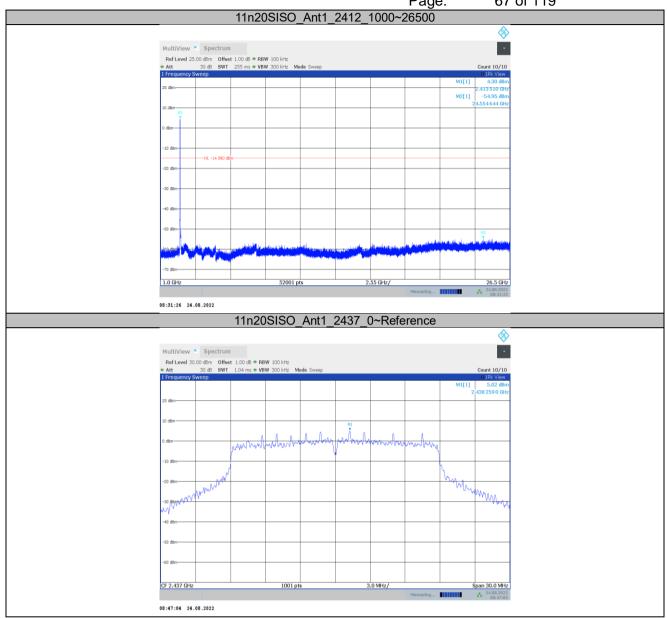
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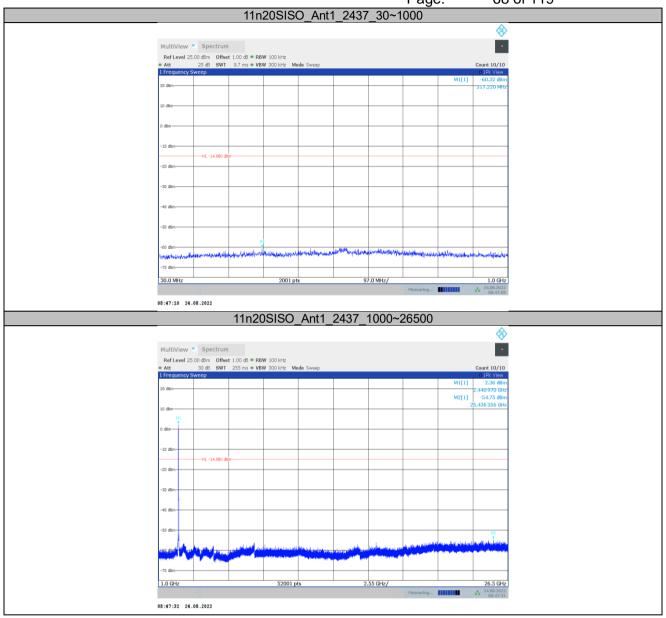
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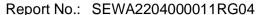




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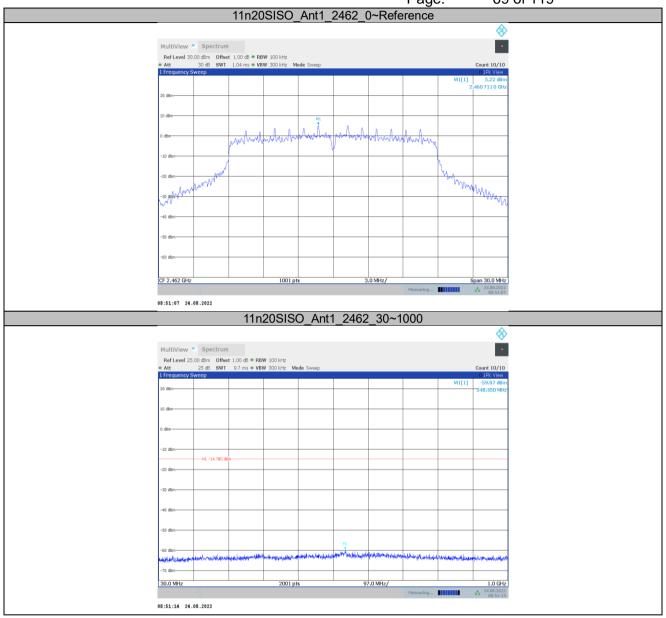
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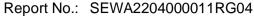




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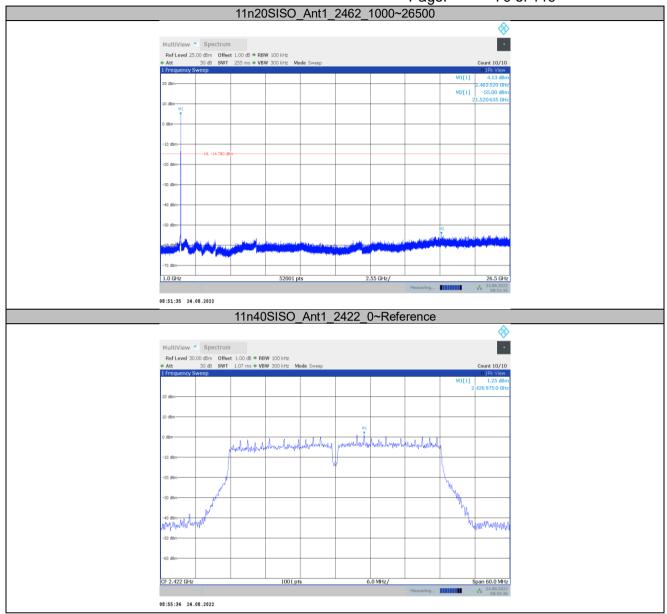
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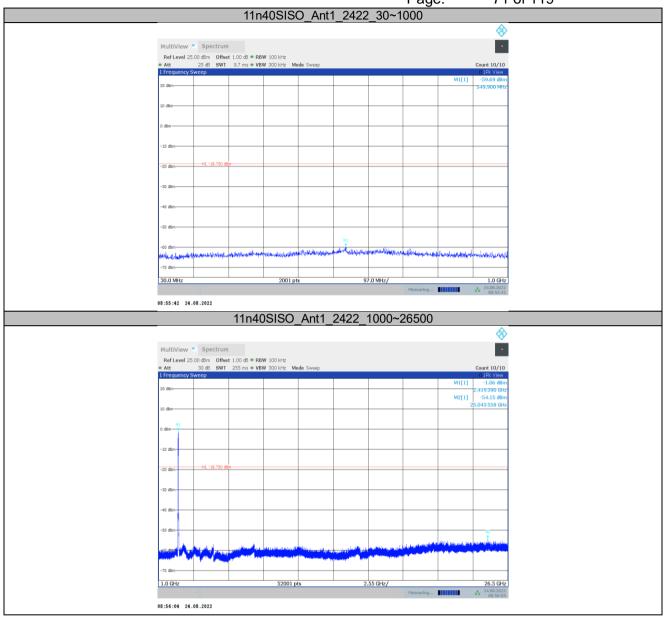
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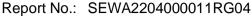


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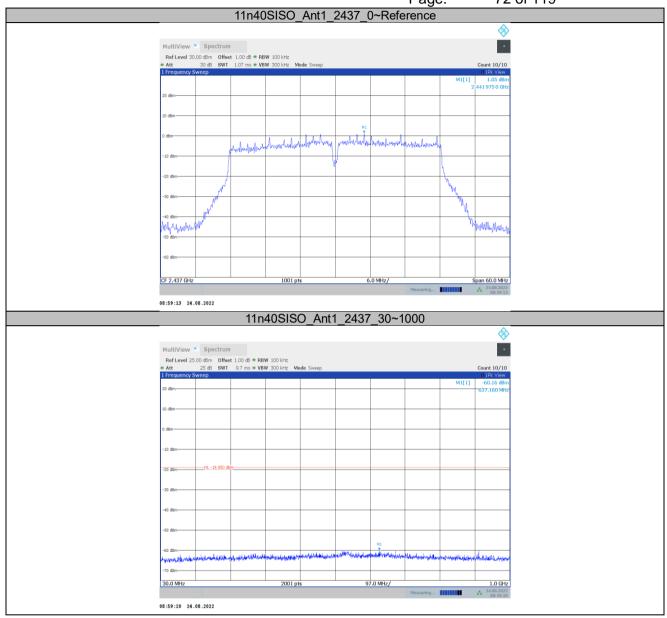
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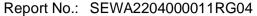


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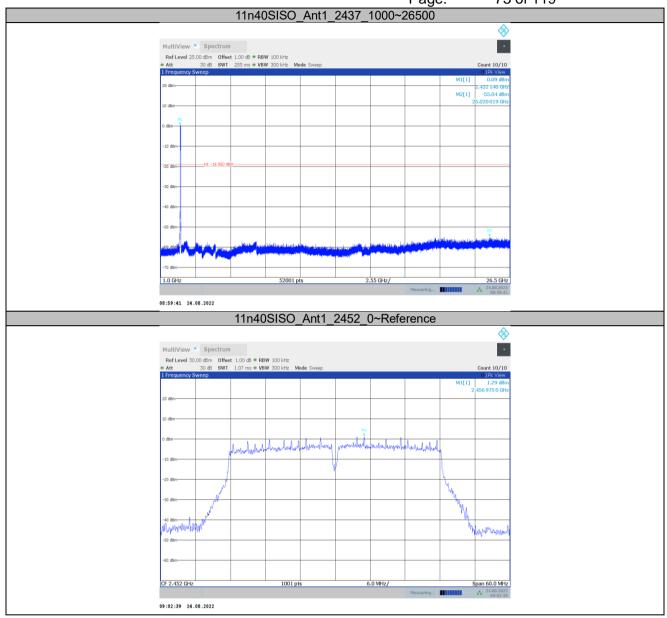
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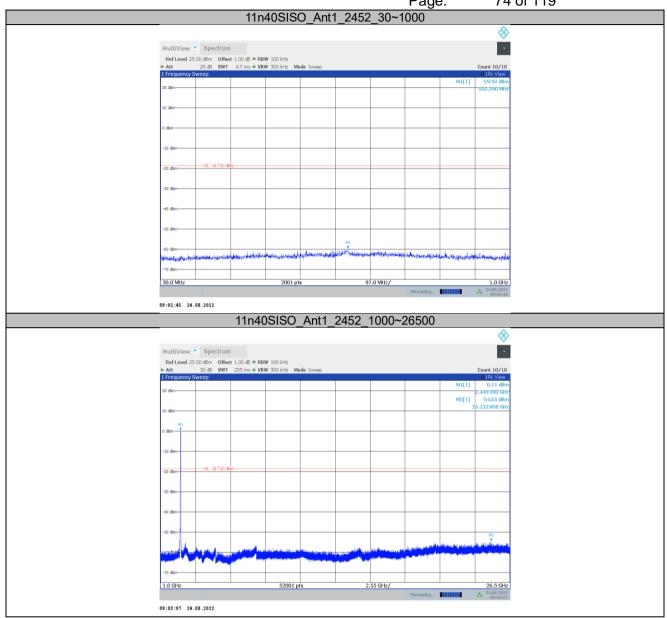
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz] Transmission Transmission Duration [ms] Period [ms]		Transmission Period [ms]	Duty Cycle [%]	
11b	Ant1	2412	12.44	12.56	99.04	
11g	Ant1	2412	2.06	2.10	98.10	
11n20SISO	Ant1	2412	1.92	1.96	97.96	
11n40SISO	Ant1	2422	0.95	1.00	95.00	



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Test Graphs





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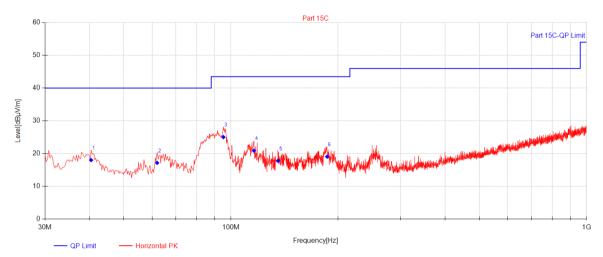
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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: 11n40_Channel 03



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4275	40.23	-36.26	14.03	18.00	40.00	22.00	165	96	Horizontal
2	62.01	41.21	-36.42	12.36	17.15	40.00	22.85	251	136	Horizontal
3	95.2325	51.29	-36.08	9.81	25.02	43.50	18.48	115	307	Horizontal
4	116.0875	45.23	-36.15	11.81	20.89	43.50	22.61	148	307	Horizontal
5	135.73	40.16	-35.59	13.20	17.77	43.50	25.73	195	297	Horizontal
6	186.4125	41.26	-35.35	13.15	19.06	43.50	24.44	200	329	Horizontal



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