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TEST REPORT

Date of Test: Date of Issue:	2022/3/31 to 2022/5/23 2022/6/27
Date of Receipt:	2022/3/23
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2A28USL101AE
Trade Mark:	Cricket
Model No.:	SL101AE
EUT Description:	Mobile Phone
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Application No.:	SEWM2203000022RG

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

Authorized Signature:

Sun anta

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/6/27		Original

Prepared By	Weller Liu) / Test Supervisor
Checked By	(Well Wei) / Reviewer



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2 Test Summary

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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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General Information 3

3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

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:	Tizzy Song, Ives Cheng

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

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EUT Description:	Mobile Phone		
Model No.:	SL101AE		
Trade Mark:	Cricket		
Hardware Version:	1.0		
Software Version:	SL101AEC10	0004	
	802.11b/g/n(ł	HT20):	2412MHz to 2472MHz
Operation Frequency:	802.11n(HT4	0):	2422MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK	K, CCK)
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 1	6QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 13 802.11n(HT40): 9		
Channel Spacing:	5MHz		
	SISO	802.11b/g/n	
		CDD: 802.11b/g/n: Tx & Rx	
Smart System:		STBC: 802.11n: Tx & Rx	
		TXBF: 802.11n: Tx & Rx	
	Diversity 802.11b/g : Tx & Rx		
Antenna Type:	External, 🛛 Integrated		
Antenna Gain*:	Provided by client		
	0.6dBi(Ant 2);		
PE Coble*:	Provided b	by client	
RF Cable*:	1 dB		
Note: *Since the above data	and/or inform	nation is provided by the c	lient relevant results or conclusions of this

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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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 Frequency of each 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				



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3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests		
Relative Humidity	44-60 % RH Ambient		
Value	Temperature(℃)	Voltage(V)	
NTNV	22~25	3.8	
LTNV	-10	3.8	
HTNV	55	3.8	
Remark: NV: Normal Voltage NT: Normal Temperature		<u>.</u>	

LT: Low Extreme Test Temperature

HT: High Extreme Test 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)	/
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 integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi.



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4.2 AC Power Line Conducted Emissions

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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:	Eregueney renge (MHz)			
	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 str single LISN provided the 3) The tabletop EUT was ground reference plane. placed on the horizontal 4) The test was perform of the EUT shall be 0.4 r vertical ground reference reference plane. The LIS unit under test and bond mounted on top of the gribetween the closest point the EUT and associated In order to find the maxing 	ed with a vertical ground referent from the vertical ground reference plane was bonded to the hores of the second reference of the second reference plane. This detect on a ground reference plane. This detect of the LISN 1 and the EUT equipment was at least 0.8 mmum emission, the relative point interface cables must be charter of the c	ugh a LISN 1 (Line $0\Omega/50\mu$ H + 5Ω linear EUT were connected to ference g measured. A ble power cables to a xceeded. table 0.8m above the ement, the EUT was erence plane. The rear erence plane. The rear erence plane. The rizontal ground he boundary of the he for LISNs istance was T. All other units of in from the LISN 2. bistions of	

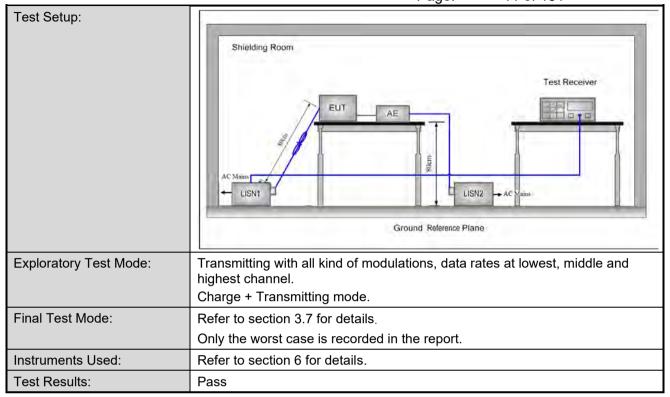


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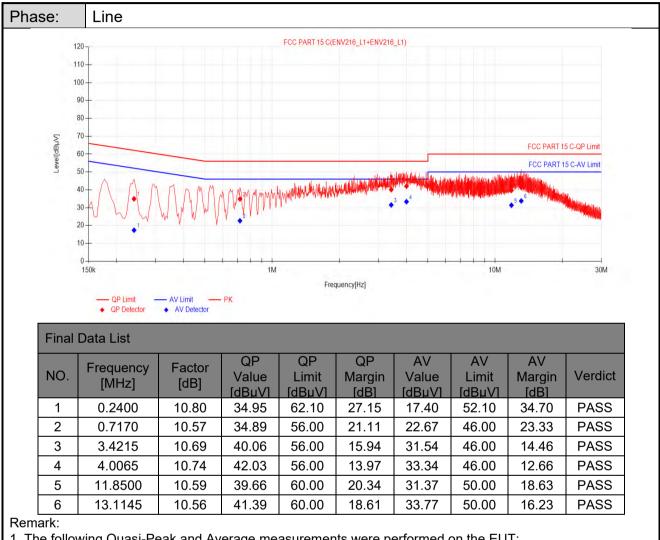


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Measurement Data

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.



1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

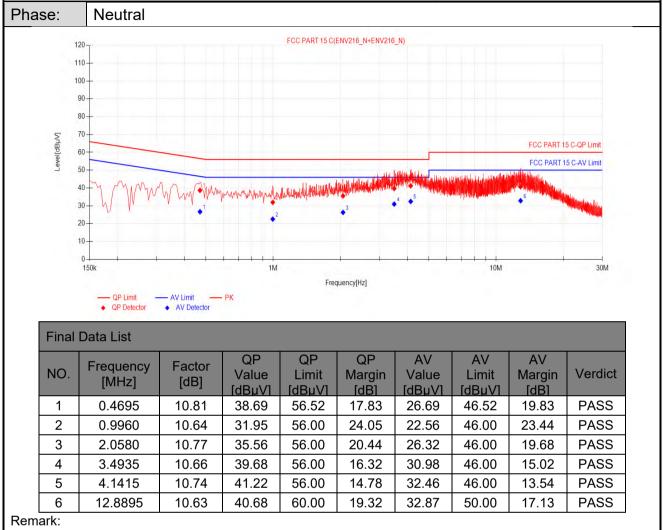


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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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4.3 Duty Cycle

The detailed test data see: Appendix



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Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	Power mater
	Ground Reference Plane * Test with power meter (Detector function: Peak)
Test Instruments:	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:	30dBm
Test Results:	Pass
The detailed test data see: A	ppendix

4.4 Conducted Output Power

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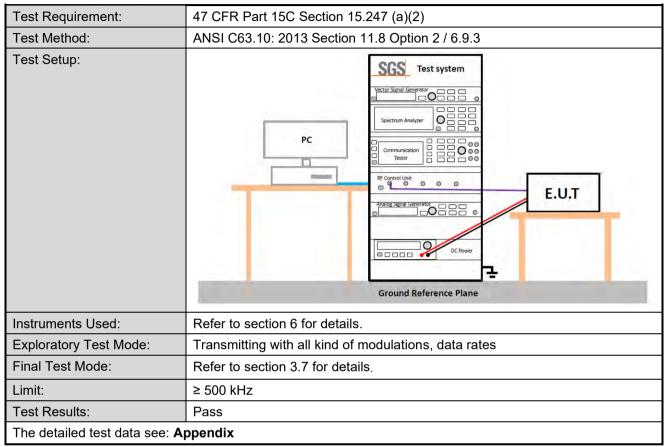
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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Test Requirement: 47 CFR Part 15C Section 15.247 (e) ANSI C63.10 :2013 Section 11.10.2 Test Method: Test Setup: SGS Test system ctor Signal Generator PC Uni 0 0 0 0 E.U.T 9 DC Powe 0000 ı Ground Reference Plane Test Instruments: 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: ≤8.00dBm/3kHz Test Results: Pass The detailed test data see: Appendix

4.6 Power Spectral Density

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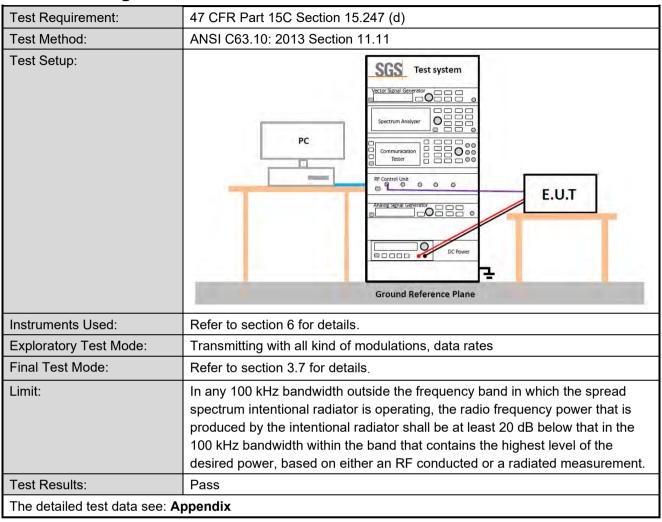
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4.7 Band-edge for RF Conducted Emissions





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Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013 Section 11.11		
Test Setup:	PC PC FC FC FC FC FC FC FC FC FC F		
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: /	Appendix		

4.8 **RF Conducted Spurious Emissions**

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4.9 Radiated Spurious Emissions

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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-Anechoi	ic 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	
	AL	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	
					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.				nit	

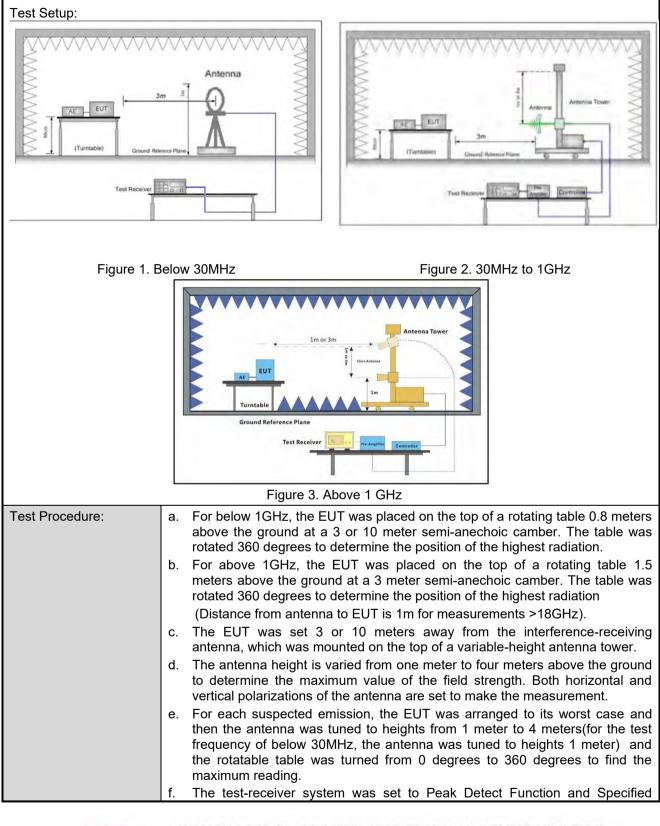


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	Bandwidth with Maximum Hold Mode.			
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.			
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning 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			
	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.			
	 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. 			
	Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).			
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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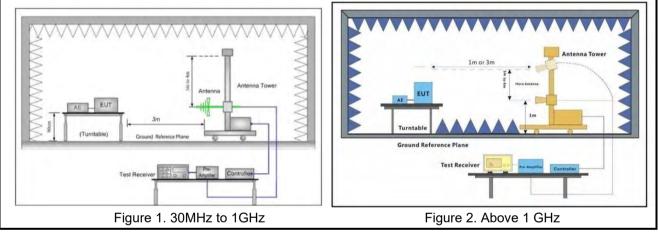
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4.10Restricted bands around fundamental frequency

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	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	Quasi-peak			
	960MHz-1GHz 54.0 Quasi-pea		Quasi-peak		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test Setup:





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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 = Peak
	Beteotor
	Trace mode = max hold
	 Trace mode = max hold
	 Trace mode = max hold Peak Measurements Above 1000 MHz
	 Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz
	 Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz
	 Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz 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 Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold
	 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
	 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
	 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]
	 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
	 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.
	 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:	 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.



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	.	
	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: 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)	
8	Radiated Emission	± 4.80dB (30M -1GHz)	
0		± 4.80dB (1GHz to 18GHz)	
		± 4.80dB (Above 18GHz)	



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Equipment List 6

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RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18		
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15		



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9*6*6 Test Equipment								
Equipment	Manufacturer Model No.		Inventory No.	Cal Date	Cal Due Date			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3			
Test receiver	ROHDE&SCHWARZ	ESR7	SR7 SUWI-01-10-01		2023/2/18			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR			



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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	Ant 2	2412	8.04	2407.96	2416.00	≥0.5	PASS
		2437	8.08	2432.92	2441.00	≥0.5	PASS
		2462	7.60	2457.92	2465.52	≥0.5	PASS
11G	Ant 2	2412	15.72	2403.84	2419.56	≥0.5	PASS
		2417	15.44	2409.08	2424.52	≥0.5	PASS
		2437	15.12	2429.44	2444.56	≥0.5	PASS
		2462	15.44	2454.44	2469.88	≥0.5	PASS
11N20SISO	Ant 2	2412	16.04	2403.48	2419.52	≥0.5	PASS
		2437	15.08	2429.44	2444.52	≥0.5	PASS
		2462	15.96	2454.44	2470.40	≥0.5	PASS
11N40SISO	Ant 2	2422	35.12	2404.48	2439.60	≥0.5	PASS
		2427	35.20	2409.40	2444.60	≥0.5	PASS
		2432	35.20	2414.40	2449.60	≥0.5	PASS
		2437	35.04	2419.48	2454.52	≥0.5	PASS
		2447	35.12	2429.48	2464.60	≥0.5	PASS
		2452	35.12	2434.40	2469.52	≥0.5	PASS



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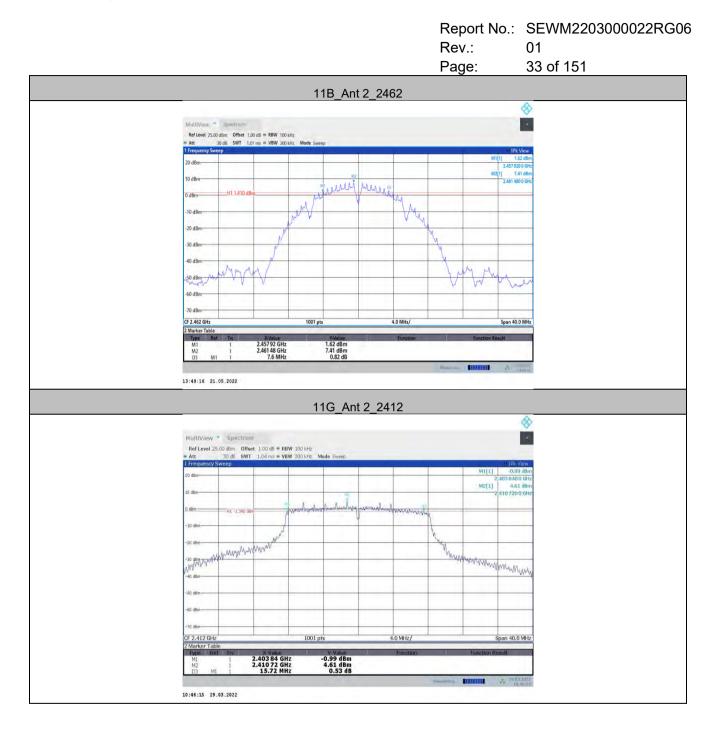
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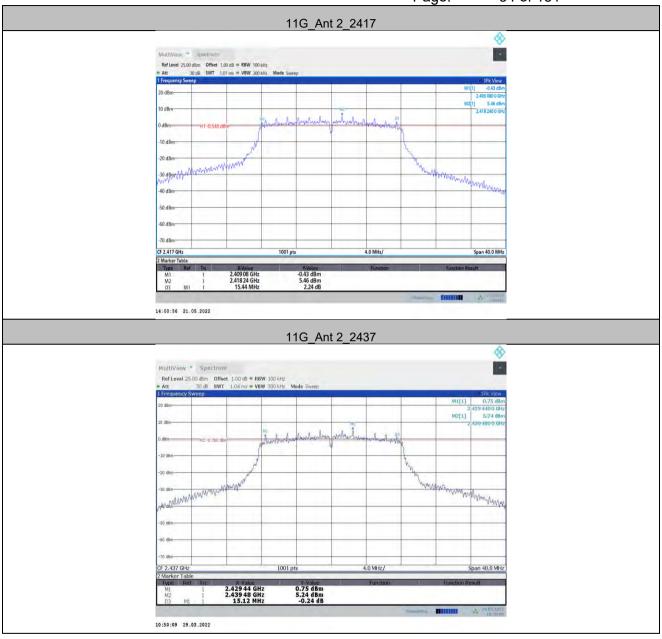
Test Graphs





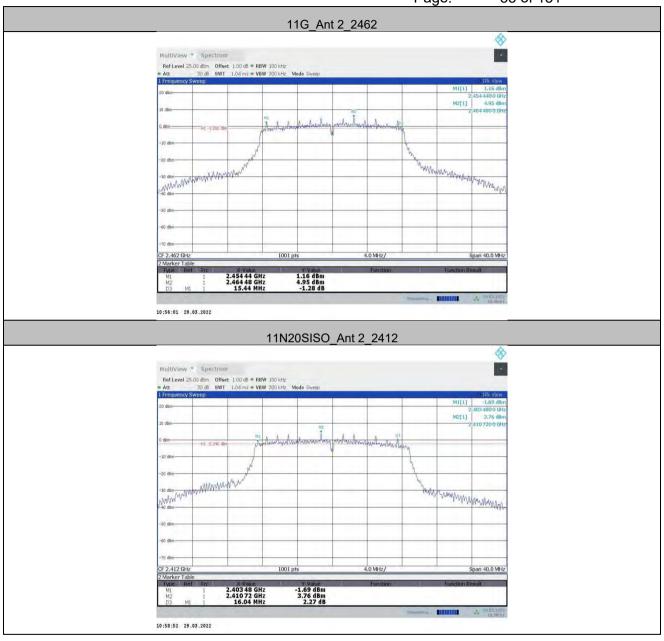


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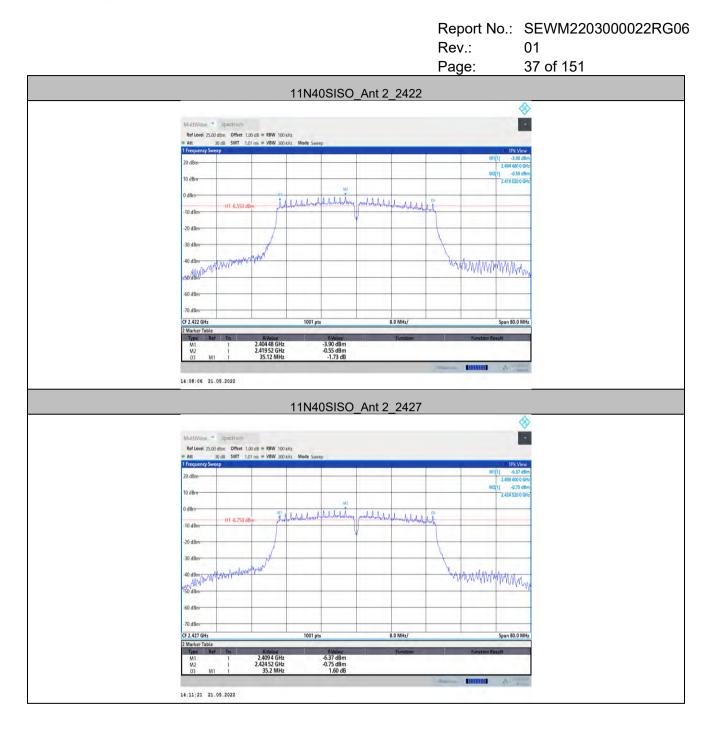


Report No.: SEWM2203000022RG06 Rev.: 01 Page: 36 of 151 11N20SISO Ant 2 2437 3 MultiView Spectrum .
 Ref Level 25.00 dBm
 Offset 1.00 dB = RBW 100 kHz

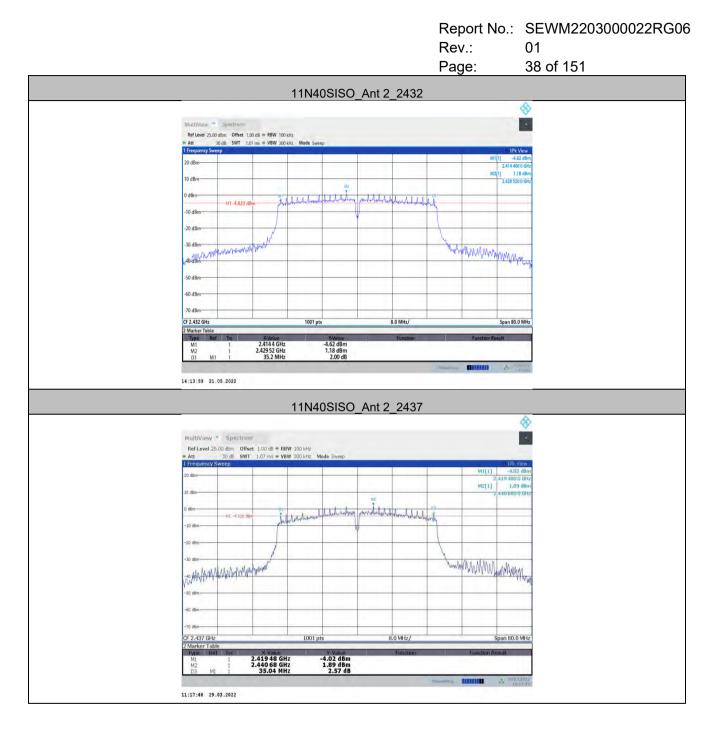
 Att
 30 dB
 SWT
 1.04 ms = VBW 300 kHz
 M1[1] -1,20 dB 429 440 0 Gl 4.26 dB 439 480 0 Gl M2[1] .1 hardownilw +1 -1.745 www.www.www. MANAMAMANAMAN 40.de F 2.437 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.429 44 GHz 2.439 48 GHz 15.08 MHz -1.20 dBm 4.26 dBm 0.20 dB M1 M2 11:00:58 29.03.2022 11N20SISO Ant 2 2462 \$ MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW
 300 kHz
 Mode M2[1] 4.05 d magnessiles A. amoutral aturation PT -1 gtn mahamuulunm AND MAN MANNAM 2.462 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.454 44 GHz 2.463 24 GHz 15.96 MHz V Value 0.05 dBm 4.05 dBm -1.76 dB 11:11:45 29.03.2022

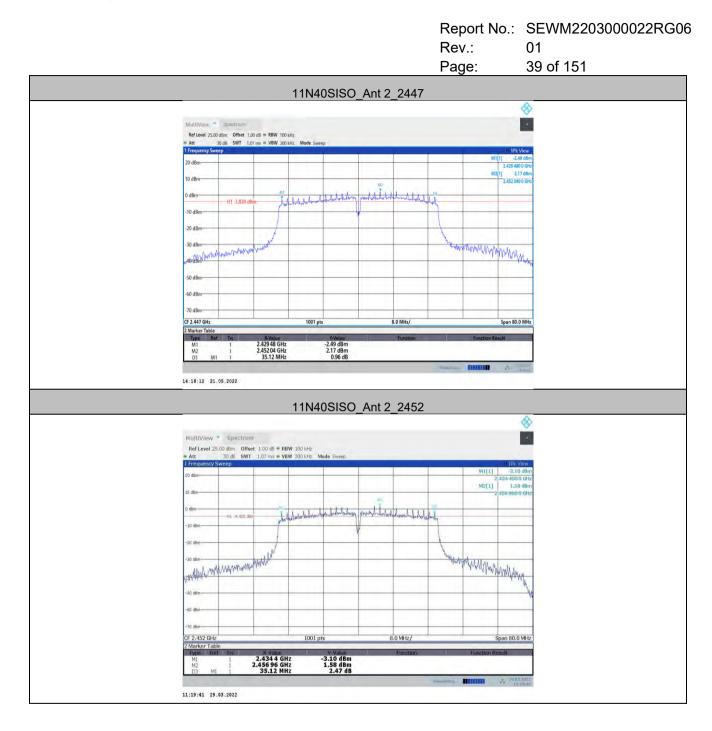














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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	12.84	2405.509	2418.350		
11B	Ant 2	2437	12.934	2430.539	2443.473		
		2462	12.741	2455.507	2468.248		
		2412	17.513	2403.035	2420.548		
		2417	17.252	2408.218	2425.470		
11G	Ant 2	2437	17.085	2428.504	2445.589		
		2462	17.289	2453.425	2470.714		
		2412	18.231	2402.729	2420.961		
11N20SISO	Ant 2	2437	17.944	2428.054	2445.998		
		2462	18.132	2453.010	2471.142		
		2422	36.412	2403.652	2440.064		
		2427	36.635	2408.575	2445.210		
		2432	36.768	2413.545	2450.312		
11N40SISO	Ant 2	2437	36.357	2419.018	2455.376		
		2447	36.477	2428.838	2465.315		
		2452	36.744	2433.733	2470.477		



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11B Ant 2 2412 0 . Ref Level 25.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 2 MHz 1.411.40 10 dBr dB 2N 10 df 20 dBr 30 df 40 dB mann 50 dBm -60 dE -70 dBn 1001 pts 4.0 MHz/ Span 40.0 MHz CF 2.412 GHz 12.840131317 MH: 2.411 481 GHz 7.17 dBm M1 11 Occ Bw Occ Bw Centroid Occ Bw Freg Offse 2.405 509 4 GHz 2.418 349 5 GHz -6.68 dBm 2.411 929 454 GHz 70.545 920 497 kHz 13:43:48 21.05.2022 11B Ant 2 2437 Ref Level 25.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 2 MHz Mode Sw n dB 2 497 4 0 dBm dBn in 10 df -20 dB 30 dBr 40 dBr 50 dBn 60 dB -70 dBn 4.0 MHz/ CF 2.437 GHz 1001 pts Span 40.0 MHz 7.50 dBm -6.37 dBm -6.06 dBm 2.437 48 GHz Function Result 12.934 399 205 MH: Occ Bw Occ Bw Centroid Occ Bw Freq Offse 11 2.430 538 8 GHz 2.443 473 2 GHz 2.437 006 032 GHz 6.032 329 955 kHz 13:46:23 21.05.2022

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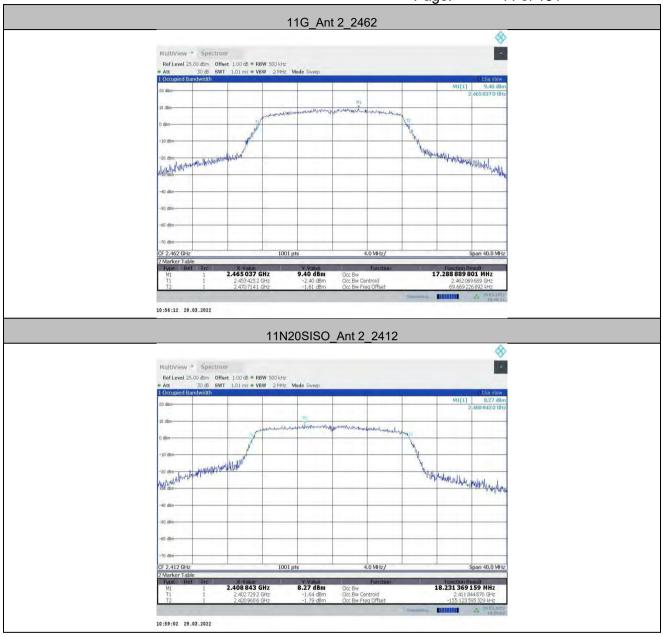
				Report N Rev.: Page:	0	EWM220300 1 <u>3 of 151</u>	00022RG0
		11G Ani	2 2417				
MultiView Spectrum Ref Level 25.00 dBm. Offset Att 20 dB SWT 1 Occupied Bandwidth					- 15a View		
20 dBm		MI		M	1(1) 10.31 dBm 2.414 642 0 GHz		
10 dBm	ET Junylours	mandamore	a second and a second stand second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
0 dBm	1			X			
-10 dBm	marganet			1 des			
-20 dBm				The statistic with north-obles.	Warmeller.		
-40 dBm							
-50 dBm							
-60 dBm		_					
-70 dBm							
CF 2.417 GHz 2 Marker Table Type Ref Trc	14 XAIntee	001 pts	4.0 MHz/	Examples 9	Span 40.0 MHz		
M1 1 T1 1	2.414 642 GHz 2.408 217 8 GHz	10.31 dBm -0.46 dBm	Occ Bw Occ Bw Centroid	17.252 326 80 2.416 843 -156.047 570	37 MHz 952 GHz		
T2 1	2.425 470 1 GHz	0.24 dBm	Occ Bw Freq Offset				
				Muannapp	14 20100		
 14:01:08 21.05.2022				Winakonay.	AL BOING		
14:01:08 21.05.2022		11G Ant	2 2437	Minaaminey.	A some		
14:01:08 21.05.2022		11G_Ant	2_2437	Alinadinosi.	A		
MultiView * Spectr			2_2437	Maximum .			
MultiView Spectr Ref Level 25.00 dBm 0	ung ffset 1.00 dB = RBW 500 kH WT 1.01 mS = VBW 2.04	4z	2_2437	Maximu, Maximu			
MultiView Spectr RefLevel2500.dbm 0 • At 30.d6 S	ffset 1.00 dB = RBW 500 kH	4z	2_2437	M1(1)			
MultiView Spectr Ref Level 2500 dbm O Att 30 db S 1 Occupied Bandwidth	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	4z	<i>6</i> .	M1(1)	• 15a V/ew 9/92 dBm		
MültiView Spectr Ref Level 25.00 dm 0 # Att 30.45 S 1 Occupied Bandwidth 20 dtm	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	M1(1)	• 15a V/ew 9/92 dBm		
NG(H)View Spect Bef Level 25.00 dbm 0 Att 30.66 1 Occupied Bandwidth 20 dbm 0 10 dbm - -10 dbm -	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	MI(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
NG(H)View Spect Bef Level 25.00 dbm 0 Att 30.66 1 Occupied Bandwidth 20 dbm 0 10 dbm - -10 dbm -	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	MI(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
MultiView Spact Ref Level 25 00 den O Att 30 de S I Occupied Bondwich 20 den	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	M1(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
NG(H)View Spect Bef Level 25.00 dbm 0 Att 30.66 1 Occupied Bandwidth 20 dbm 0 10 dbm - -10 dbm -	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	MI(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
MultiView Spect Ref Level 25.00 dbm O Att 30.06 S 1 Occupied Bondwidth 20 dbm - 0 dbm 10 dbm 	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	MI(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
MultiView Spect Ref Level 25.00 dbm O Att 30.06 S 1 Occupied Bondwidth 20 dbm - 0 dbm 10 dbm 	ffset 1.00 dB = RBW 500 kH WT 1.01 ms = VBW 2 MH	tz iz Mode Sweep	<i>6</i> .	MI(1)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
MultiView Spectr Ref Level 25 00 dbm 0 • Att 30 dbm 10 dbm 10 8 dbm 10 9 dbm 10 -10 dbm 10 -20 dbm 10 -40 dbm 10 -50 dbm 10 -60 dbm 10 -70 dbm 10 7 10 <td>Ifset 1.00 dB = RBW 500 kH WT 1.01 mB = VBW 2 kH WM 4 kH KH KH KH KH KH KH KH KH KH K</td> <td>tz iz Mode Sweep</td> <td>4.0 MHz/</td> <td>MI(I)</td> <td>- 5-0 Ven 9-72 dbm 9-73 0 GHz</td> <td></td> <td></td>	Ifset 1.00 dB = RBW 500 kH WT 1.01 mB = VBW 2 kH WM 4 kH KH KH KH KH KH KH KH KH KH K	tz iz Mode Sweep	4.0 MHz/	MI(I)	- 5-0 Ven 9-72 dbm 9-73 0 GHz		
MultiView Spectr Ref Level 25 00 dbm 0 • Att 30 dbm 10 dbm 10 8 dbm 10 -10 dbm 10 -00 dbm -00 dbm -50 dbm -10 dbm -60 dbm -10 dbm -70 dbm -10 dbm -60 dbm -10 dbm -70 dbm -10 dbm	Ifset 1.00 dB = RBW 500 kH WT 1.01 mS = VBW 2.04 .01 mS = VBW 2.04	12 12 Mode Sweep Addie Sweep	6x************************************				
MultiView Spectromaction Ref Level 25.00 dbm 0 • Att 30.36 Si • Occupied Bondwidth 20 dbm 10 dbm - - • 0 dbm - - -	ffset 1.00 dB = RBW 500 kH WT 1.01 mS = VBW 2.04 MW HAM 4 MW	tz tz Mode Sweep whith converting the high built pro-	4.0 MHz/		Sau View 9/92 dbm 9/92 dbm		



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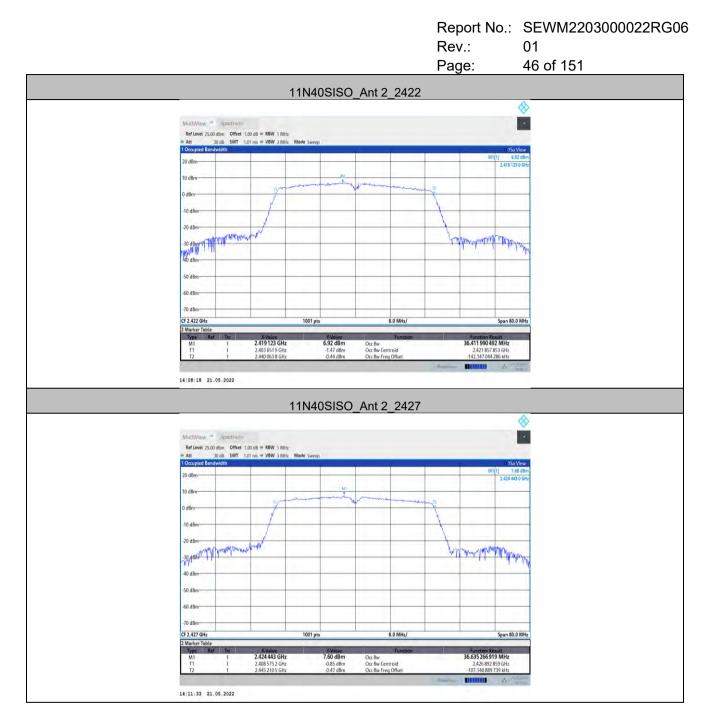


Report No.: SEWM2203000022RG06 Rev.: 01 Page: 45 of 151 11N20SISO Ant 2 2437 3 MultiView . Spectrum .
 Ref Level 25.00 dBm
 Offset 1.00 dB = RBW 500 kHz

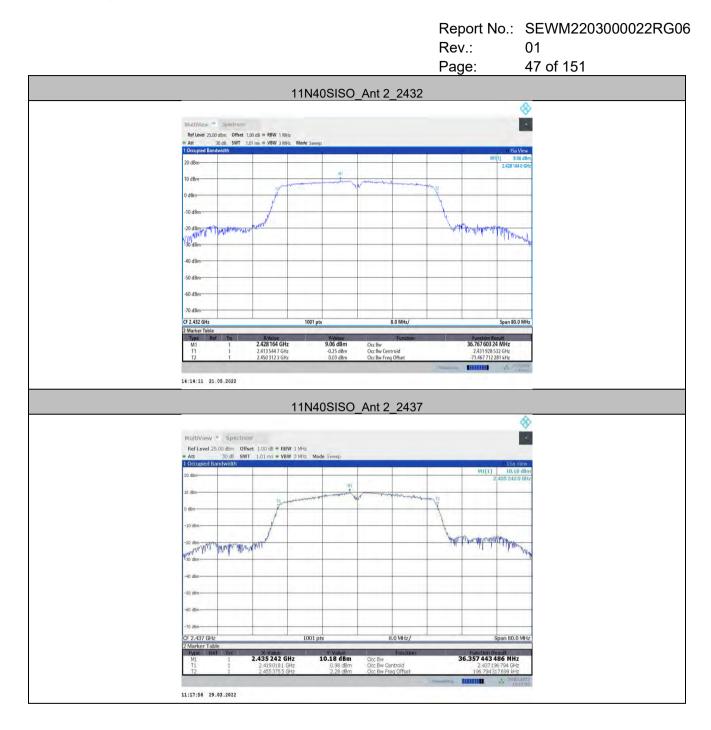
 Att
 30 dB
 SWT
 1.01 ms = VBW
 2 MHz
 M1[1] Menter .14 - And and a station of the state of the stat F 2.437 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.438 359 GHz V Value 8.71 dBn Function Result 17.943 891 223 MHz Occ Bw Occ Bw Centroid 11:01:08 29.03.2022 11N20SISO Ant 2 2462 \$ MultiView . Spectrue
 Ref Level 25:00 dBm
 Offset 1:00 dB
 RBW 500 kHz

 Att
 30 dB
 SWT
 1:01 ms
 VBW
 2 MHz
 Mode no unt entry and a second second and an and an a second portelization and a state 2.462 GH 1001 pts 4.0 MHz/ Span 40.0 MHz 2.461.96 GHz V Value 8.62 dBn Function Result 18,132,018,062, MH Occ Bw Occ Bw Centroid 11:11:55 29.03.2022

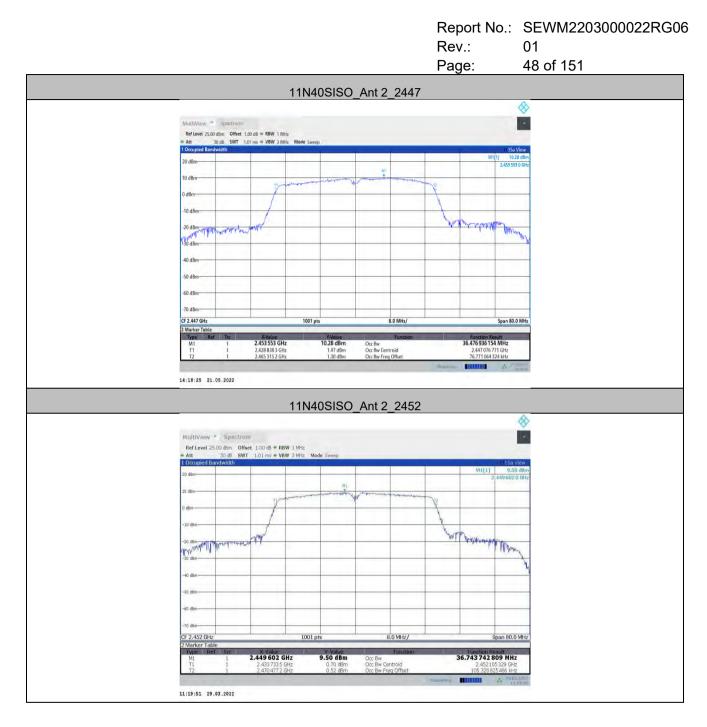














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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2412	17.32	≤30.00	PASS
11B	Ant 2	2437	17.72	≤30.00	PASS
		2462	17.53	≤30.00	PASS
		2412	23.51	≤30.00	PASS
		2417	24.12	≤30.00	PASS
11G	Ant 2	2437	24.67	≤30.00	PASS
		2462	23.98	≤30.00	PASS
		2412	23.78	≤30.00	PASS
11N20SISO	Ant 2	2437	24.54	≤30.00	PASS
	-	2462	24.01	≤30.00	PASS
		2422	24.29	≤30.00	PASS
		2427	22.92	≤30.00	PASS
		2432	24.05	≤30.00	PASS
11N40SISO	Ant 2	2437	24.11	≤30.00	PASS
		2447	24.32	≤30.00	PASS
		2452	24.06	≤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	-6.86	≤8.00	PASS
11B	Ant 2	2437	-7.26	≤8.00	PASS
		2462	-7.21	≤8.00	PASS
		2412	-10.13	≤8.00	PASS
		2417	-8.29	≤8.00	PASS
11G	Ant 2	2437	-8.87	≤8.00	PASS
		2462	-8.21	≤8.00	PASS
		2412	-10.45	≤8.00	PASS
11N20SISO	Ant 2	2437	-10.16	≤8.00	PASS
		2462	-10.45	≤8.00	PASS
		2422	-15.61	≤8.00	PASS
		2427	-15.92	≤8.00	PASS
		2432	-13.45	≤8.00	PASS
11N40SISO	Ant 2	2437	-13.43	≤8.00	PASS
		2447	-13.03	≤8.00	PASS
		2452	-12.97	≤8.00	PASS



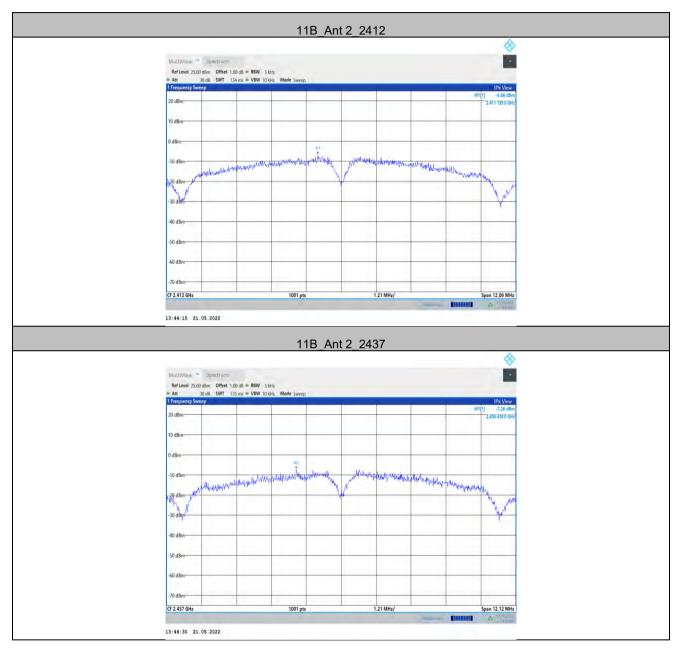
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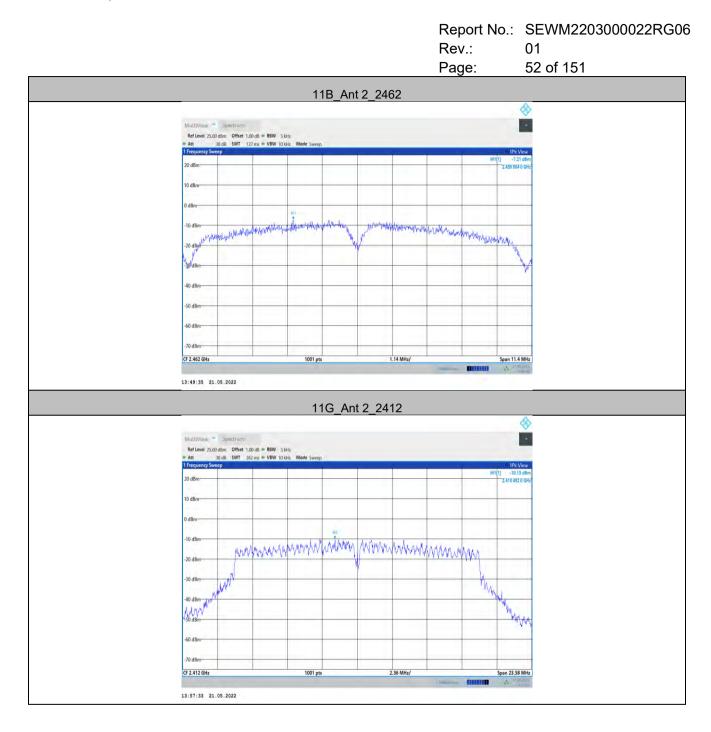
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Test Graphs







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11G_Ant 2_2417	
MultiViaw = Spectrum	*
Ref Level 2500 dBm Office 1.00 dB = RBW 3 kHz # Att 30 dB SWT 258 ms • VBW 10 kHz Mode Sweep	-
1 Frequency Sweep	0.192 View M1[1] =8.29 dBm
20 dBm-	2.415 681 0 GHz
10 dBm	
0 dBm	
-10 dBm MARMANNAMAAN MAAAA MAAAAAAAAAAAAAAAAAAA	MAMMAMANY
-20 UMIT	
-30 dBm	W.M.L.
40,0300 ⁴⁴	THE WAY
-50 dBm	
-60 dBm	
-70 dBm GF 2.417 GHz 1001 pts 2.32 MHz;	z/ Span 23.16 MHz
14:01:15 21.05.2022	Hamman. A Period
11G_Ant 2_2437	*
MultiView * Spectrum	×
RefLevel 25:00 dBm Offset 100 dB # RW 3 litz ■ Att 30:d5 SWT 252 mic = VBW 10 litz Mode Sweep 1 Frequency Sweep 1 Frequency Sweep 1 Frequency Sweep 1	
20 dite-	119/ View Mt[1] = 8,87 dBm 21,436 071 0 GHz
10 580-	
D d8m	
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-20 april - MANYAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAM	a a rad a nd Ar Ad Ar H
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CF 2.437 GHz 1001 pts 2.27 MHz	z/ Span 22.68 MHz
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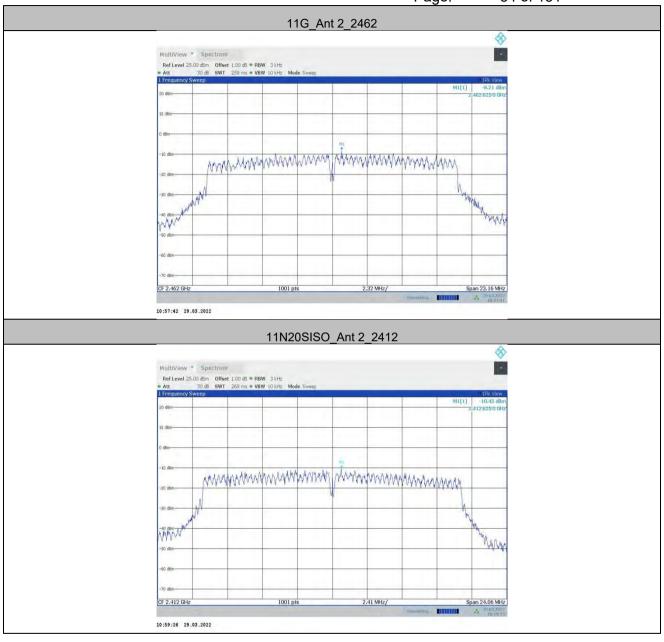
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Report No.: SEWM2203000022RG06 Rev.: 01 Page: 55 of 151 11N20SISO Ant 2 2437 3 MultiView . Spectrum .
 Ref Level 25.00 dBm
 Offset 1.00 dB = RBW
 3 kHz

 Att
 30 dB
 SWT
 252 ms = VBW
 10 kHz
 -10,16 df www.hunderhowen provident when here we # NH Span 22.62 MHz CF 2.437 GH 1001 pt 2.26 MHz/ 11:01:32 29.03.2022 11N20SISO Ant 2 2462 \$ MultiView • Spectrum
 Ref Level
 25.00 dBm
 Offset
 1.00 dB
 RBW
 3 kHz

 Att
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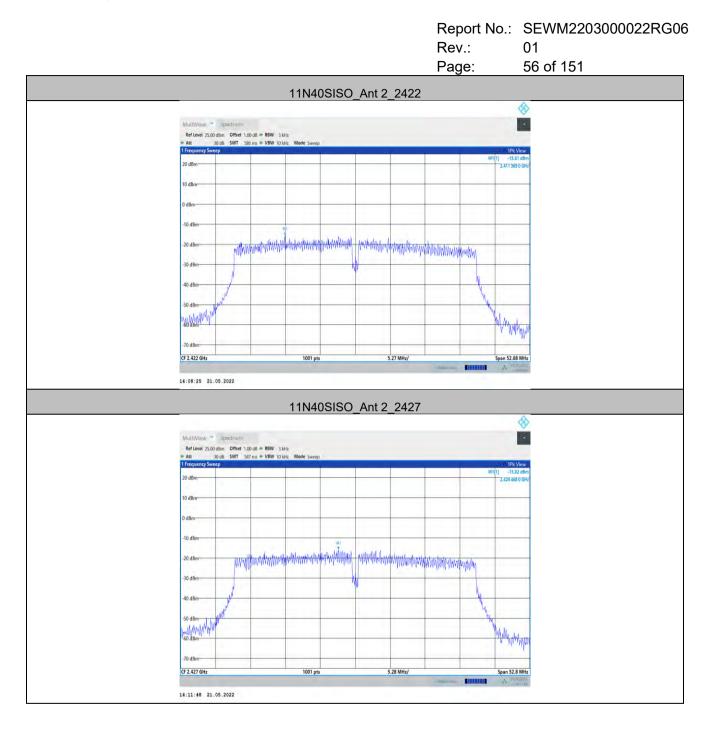
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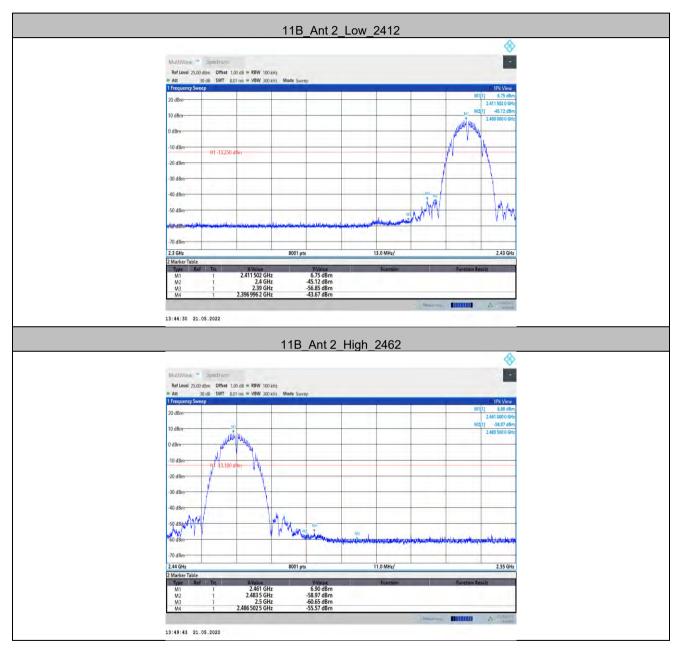


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Band edge measurements Test Graphs





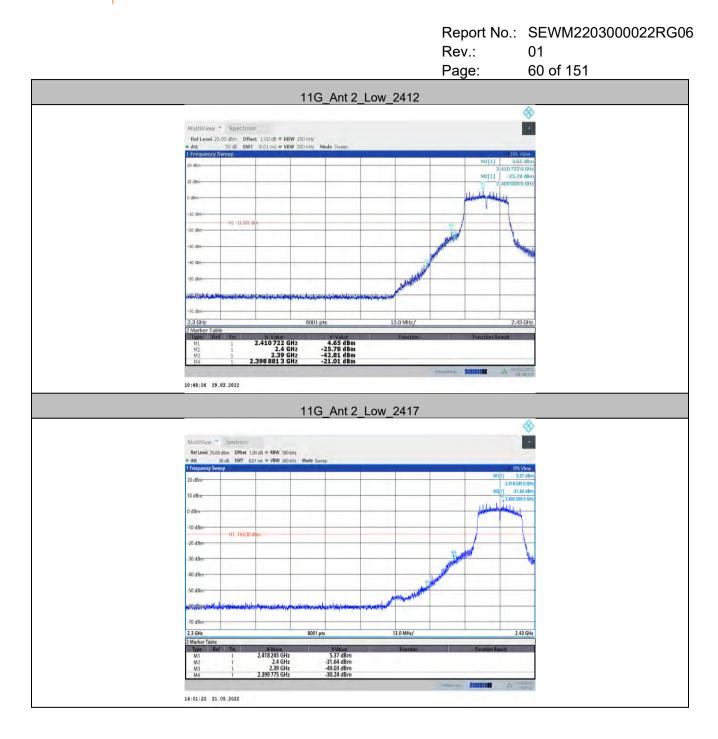
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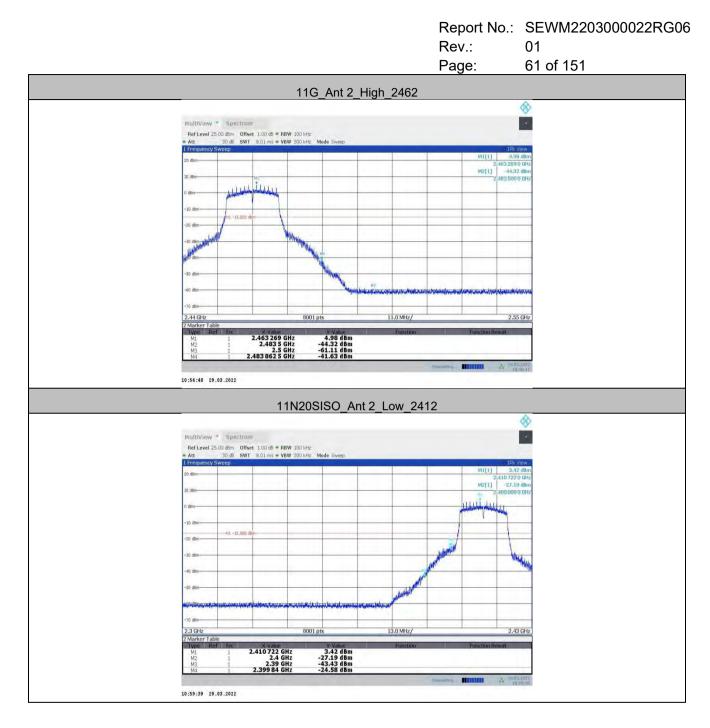
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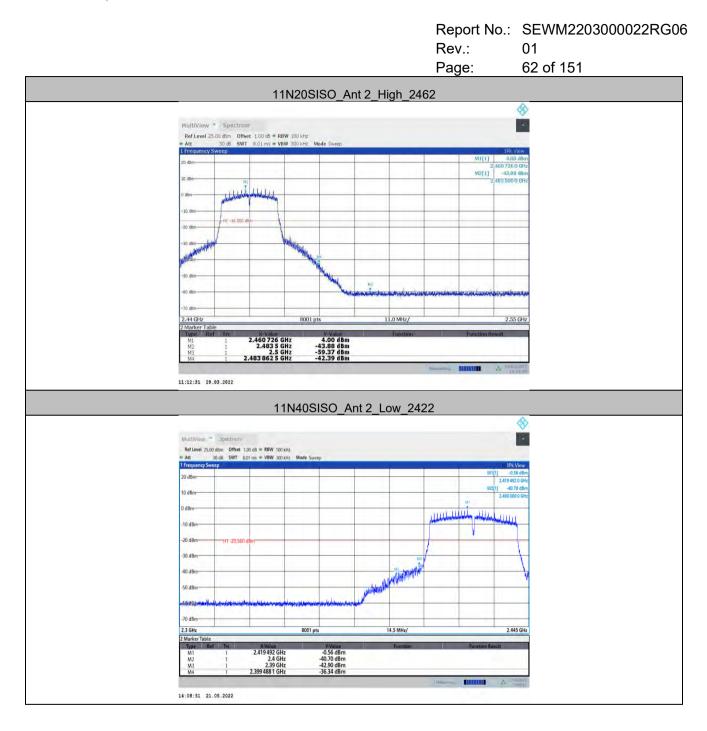
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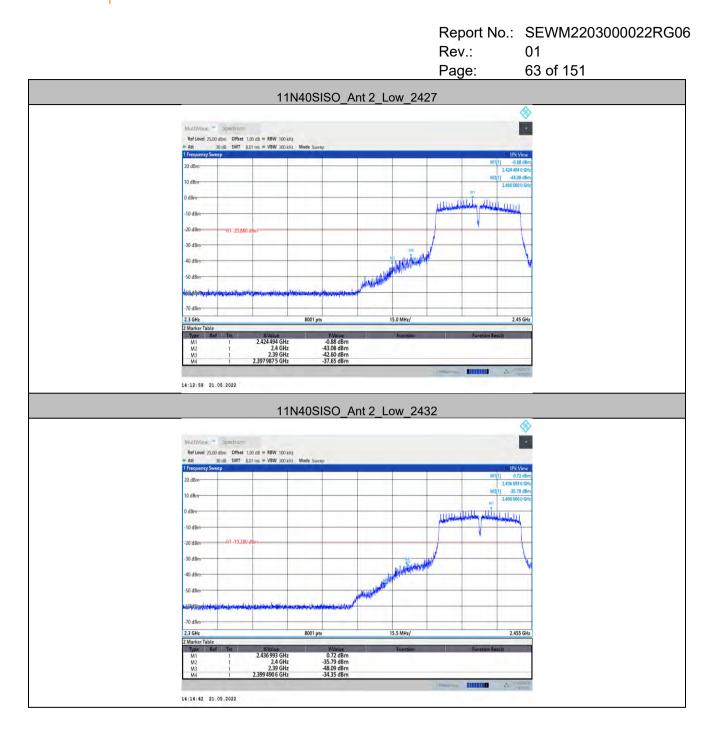




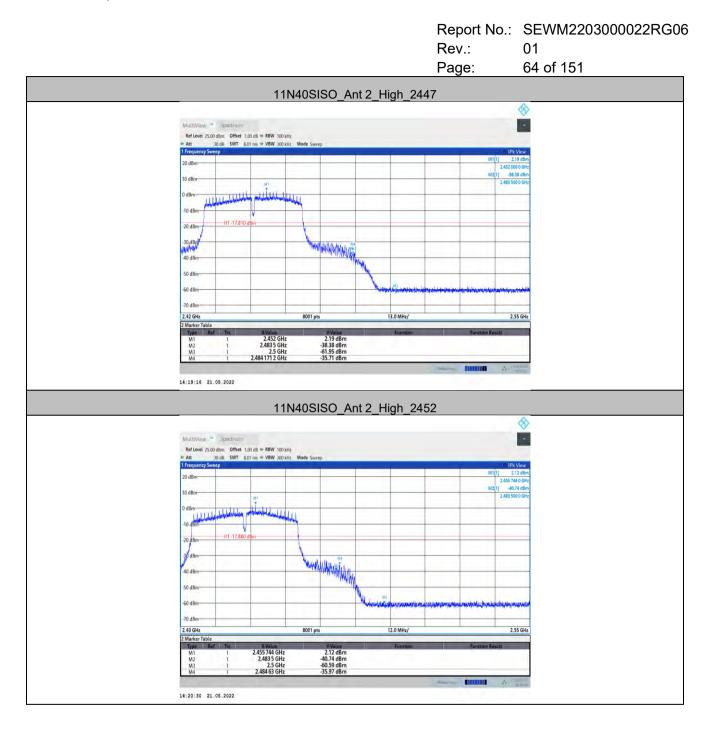












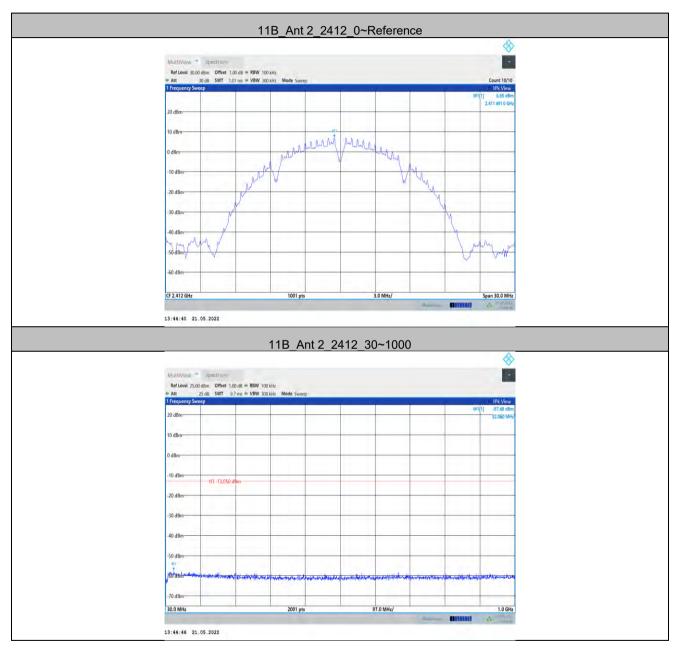


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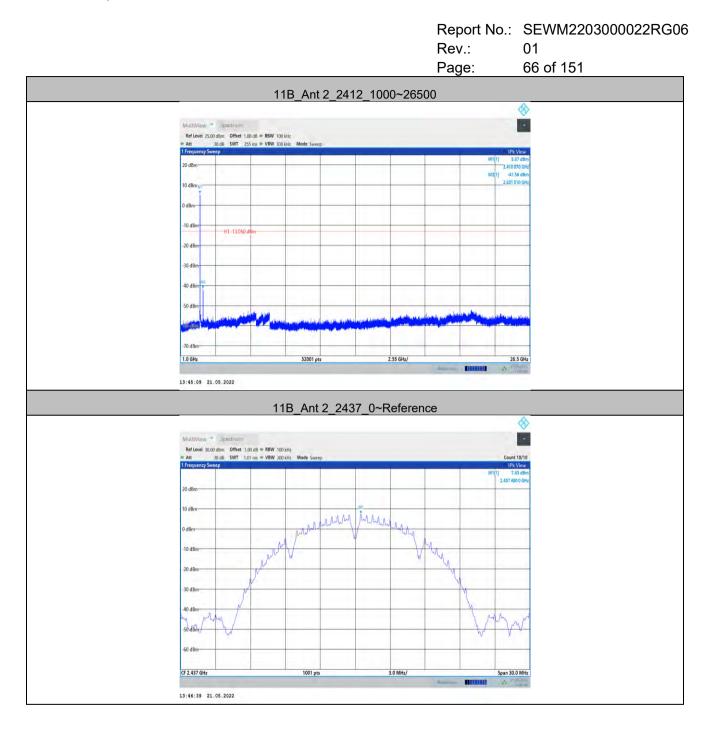
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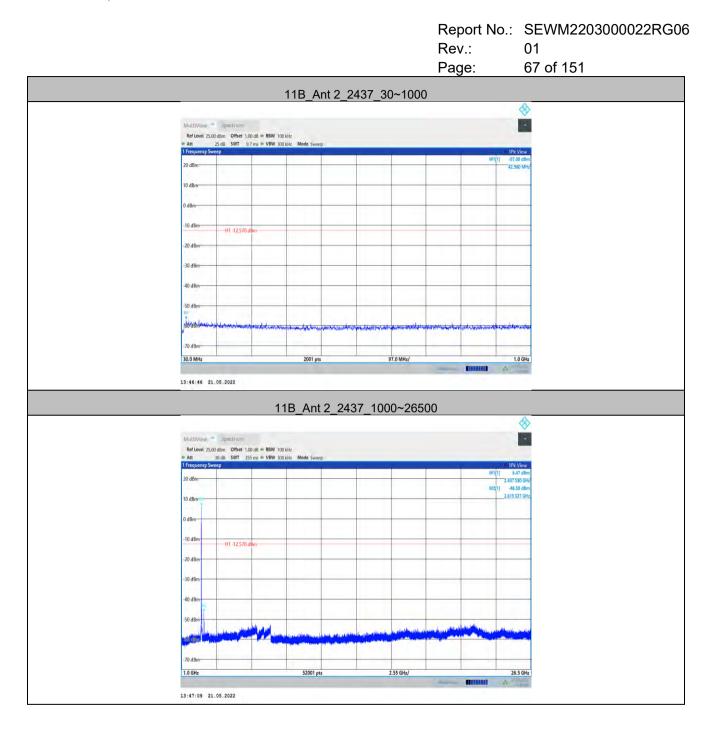
Conducted Spurious Emission Test Graphs



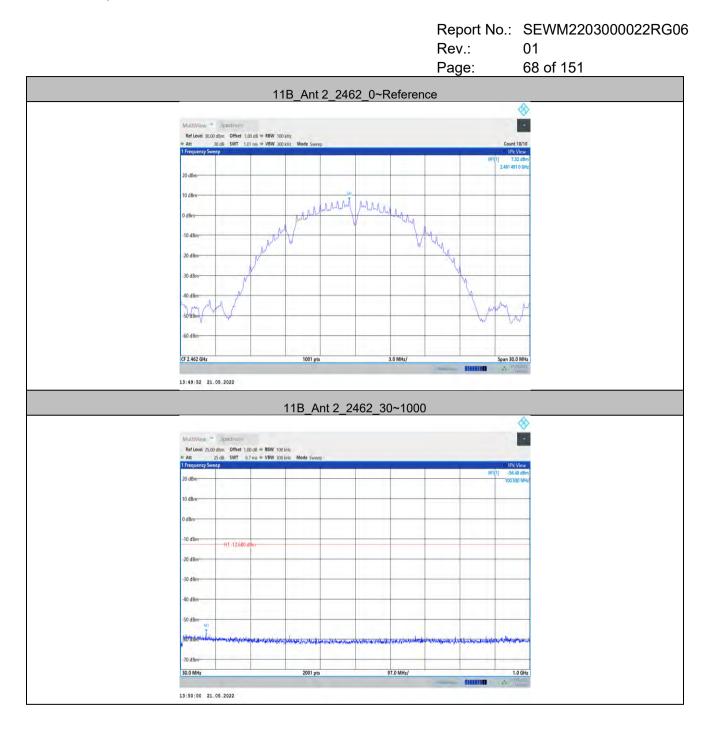




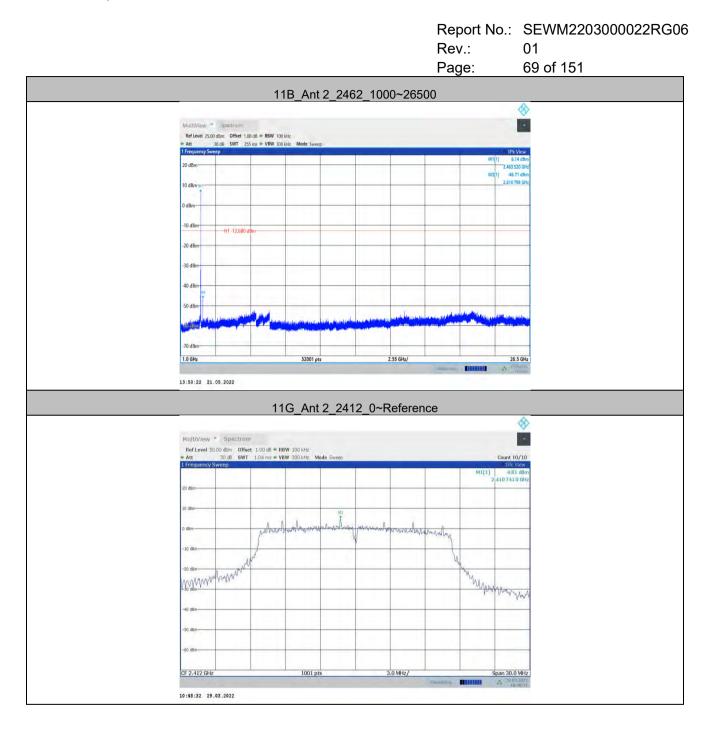








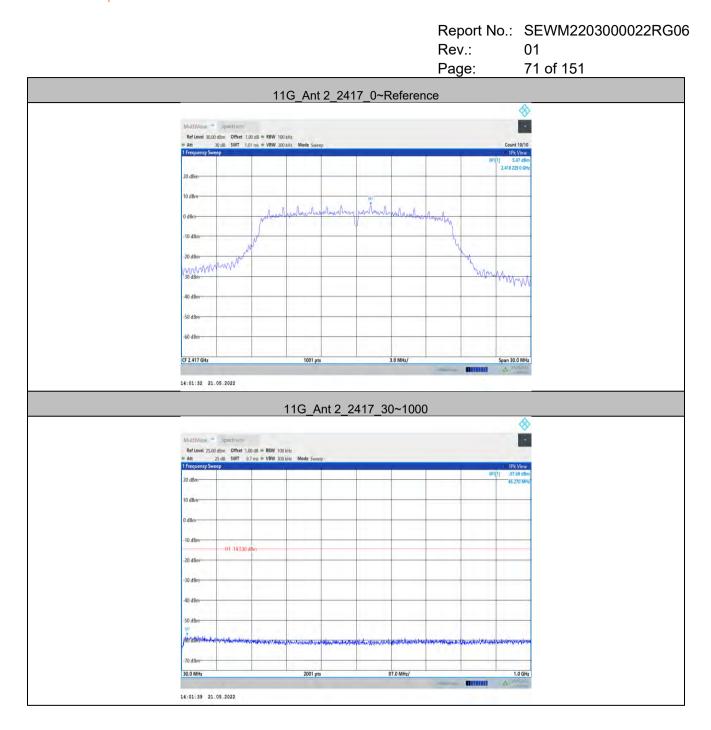




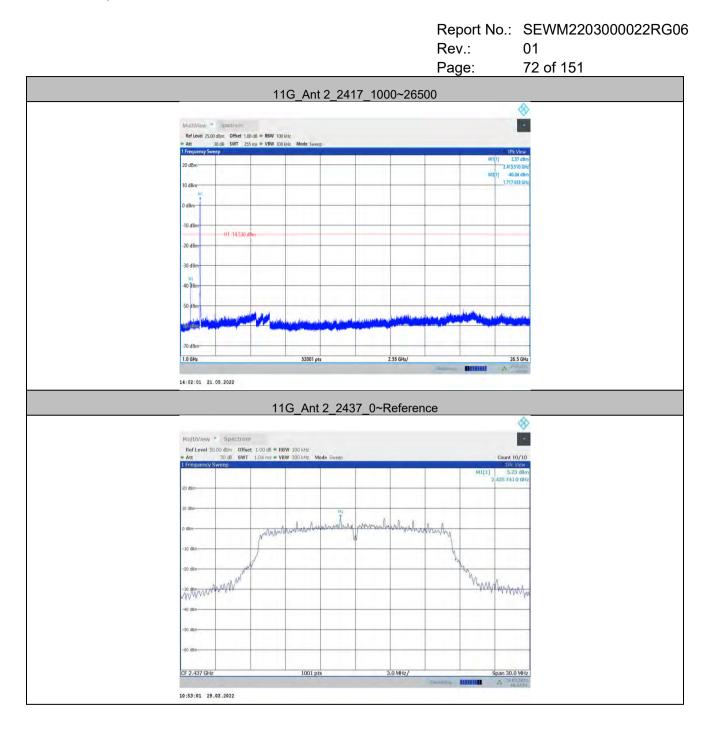


				Report No Rev.: Page:	0.: SEWN 01 70 of 2	12203000022RG
	11	G Ant 2 24	12_30~1000)		
MultiView Sp	ectrum		-		*	
Att 25 dB I Frequency Sweep	Offset 1.00 dB = RBW 100 SWT 9.7 ms = VBW 300	kHz Mode Sweep			s1Pk View	
20 d8m-				M1(1)	-59.00 dBm 546.990 MHz	
10 dBm-						
D dBm-	_					
-10 dBm						
-20 dBm	15,190 dBm					
~30 dBm						
-40 d8m-						
-50 dBm-			81			
-60 dBm	a transfer in a second star of the second	deren workstation of the second states and	and margin and mail and a state of the second	hive ministration and the physical para	have and the results	
~70 dām-						
30.0 MHz		2001 pts	97.0 MHz/			
and the second se				Maasuringe .	1.0 GHz 20.03.2022 312.48537	
10:48:38 29.03.202	2			Mélastikingy .		
10:48:38 29.03.202		Ant 2_241	2_1000~2650		204(1)2022 10:46,77	
MultiView Sp Ref Level 25:00 dBm Att 30 dB	11G	1 kHz	2_1000~265			
MultiView Sp Reflevel 25.00 dbm	11G	1 kHz	2_1000~2650	00 	* 2010/2022 11:46(37)	
HultiView Spp Ref Level 25.00 dbm Att 30 db I Frequency Sweep at dim	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	* 2010/2022 11:46(37)	
HultiView Spp Ref Level 25.00 dbm Att 30.65 I Frequency Sweep 20 dbm HI HI	11G	1 kHz	2_1000~265	00 MI(1) M2[1]	**************************************	
MultiView Spp Ref Level 25.00 den Att 30 de Frequency Sweep 10 den H. D den	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
HultiView Sp Ref Level 25.00 dbm Ant 30 db Ant 30 db If requery, Sweep 20 dbm Mil If the second	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
MultiView * Sp Ref Level 25.00 den * At 20 de 1 Frequency Sweep 10 den 10 den 10 den -10 den	11G	1 kHz	2_1000~265	00 MI(1) M2[1]	**************************************	
HultiView Sp Ref Level 25.00 dbm Ant 30 db Ant 30 db If requery, Sweep 20 dbm Mil If the second	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
MultiView Spp Ref Level 25.00 dem 4.00 Att 30 dem 10 dem 10 10 dem 11 -10 dem 11	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
HultiView Sp Ref Level 25.00 dm 30 db # Att 30 db If Frequency Sweep 20 dm 10 dm 11 -00 dm 11 -30 dm -11	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
MultiView Sp Ref Level 25.00 dem Att 30 de Att 30 de Interuences Weep 10 dem Mil Mil 10 dem Mil Mil -00 dem Mil Mil -40 dem -40 dem -40 dem	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
MultiView Sp Ref Level 25.00 dem Att 30 de Att 30 de Interuences Weep 10 dem Mil Mil 10 dem Mil Mil -00 dem Mil Mil -40 dem -40 dem -40 dem	11G	1 kHz	2_1000~2650	00 MI(1) M2[1]	**************************************	
MultiView Spp Ref Level 25.00 dem Att 30 de Att 30 de Internet of the second seco	11G	1 kHz	2_1000~2650		**************************************	

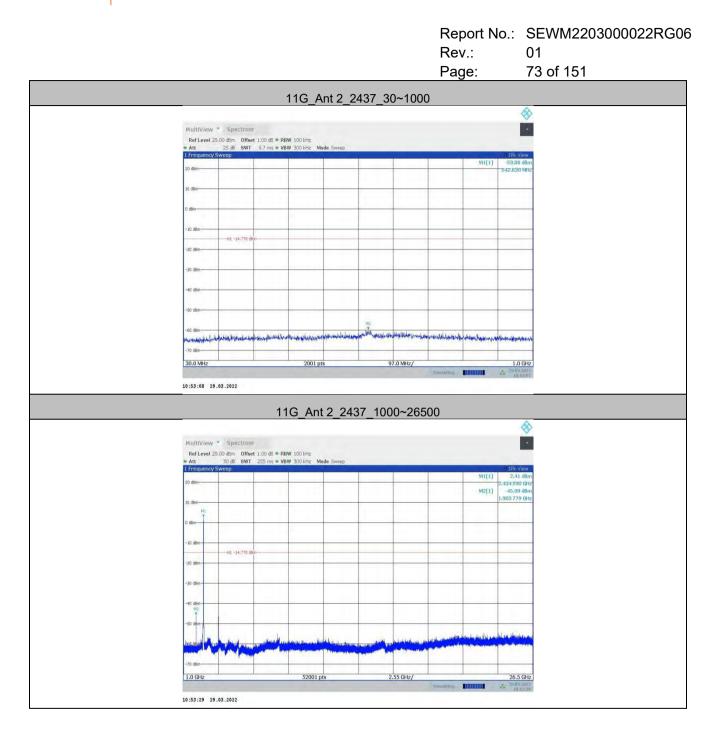














Report No.: SEWM2203000022RG06 Rev.: 01 Page: 74 of 151 11G Ant 2 2462 0~Reference -MultiView . Spectrum .
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW
 300 kHz
 Mode
 Count 10/10 M1[1] 4.89 dB 464 488 0 G martinan maland Man man from tom man 11.00 Wanny Murry Assertion CF 2.462 GH 1001 pt 3.0 MHz/ Span 30.0 MHz 10:56:54 29.03.2022 11G Ant 2 2462 30~1000 \$ MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset 1.00 dB = RBW 100 kHz

 Att
 25 dB
 SWT
 9.7 ms = VBW 300 kHz
 Mada -01 -15.110 will built have المعيد والمحالية والمحالية والمعادي والمدار وتوحا A A A MALE MALA 110. all alle 97.0 MHz/ 30.0 MHz 2001 pt 1.0 GHz 10:57:00 29.03.2022



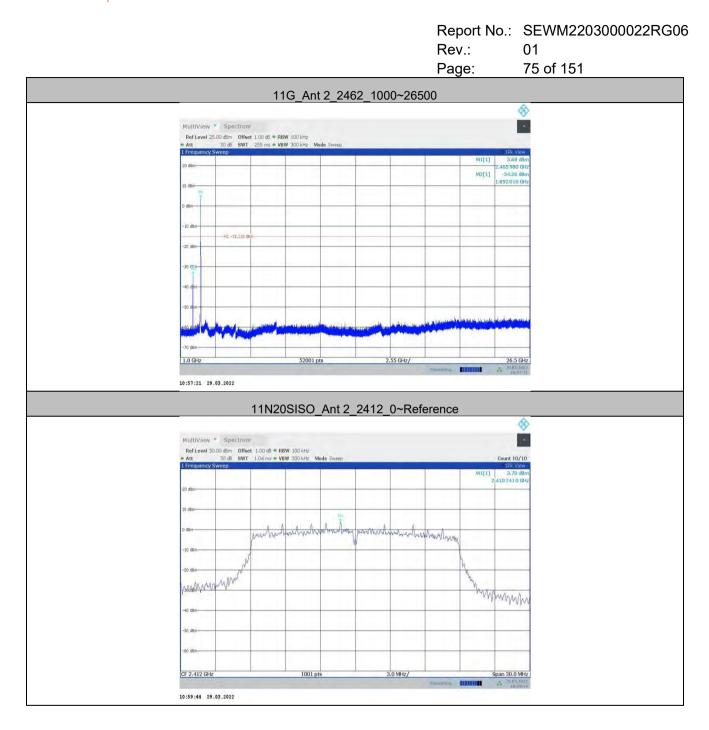
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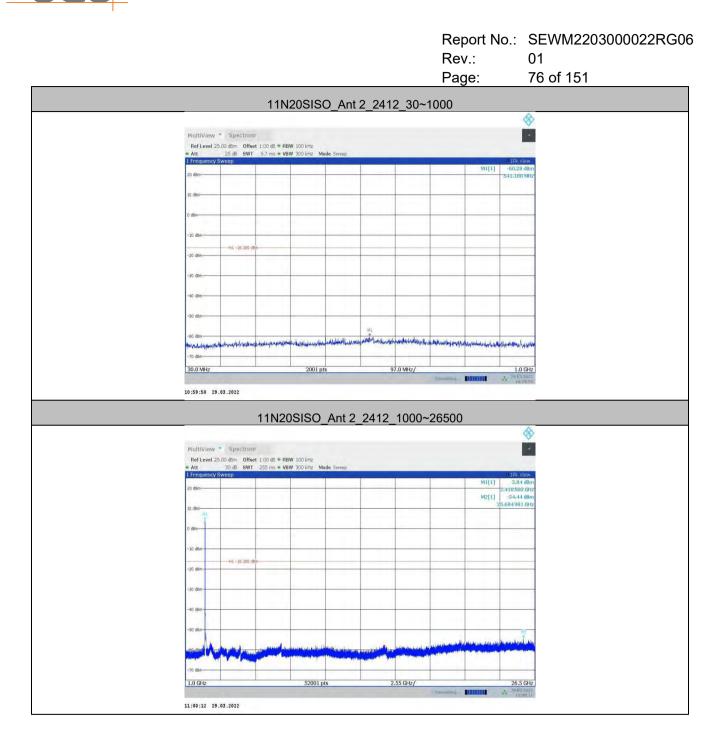
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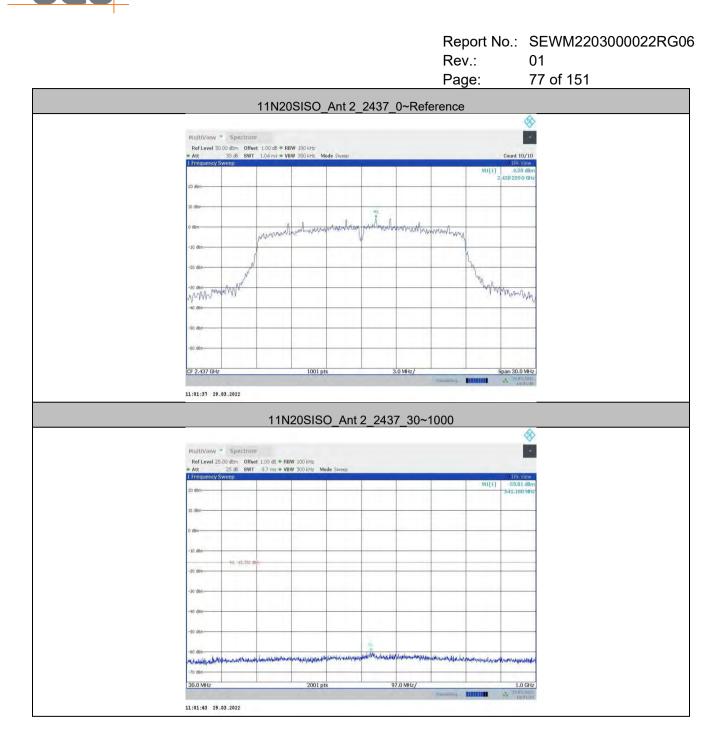
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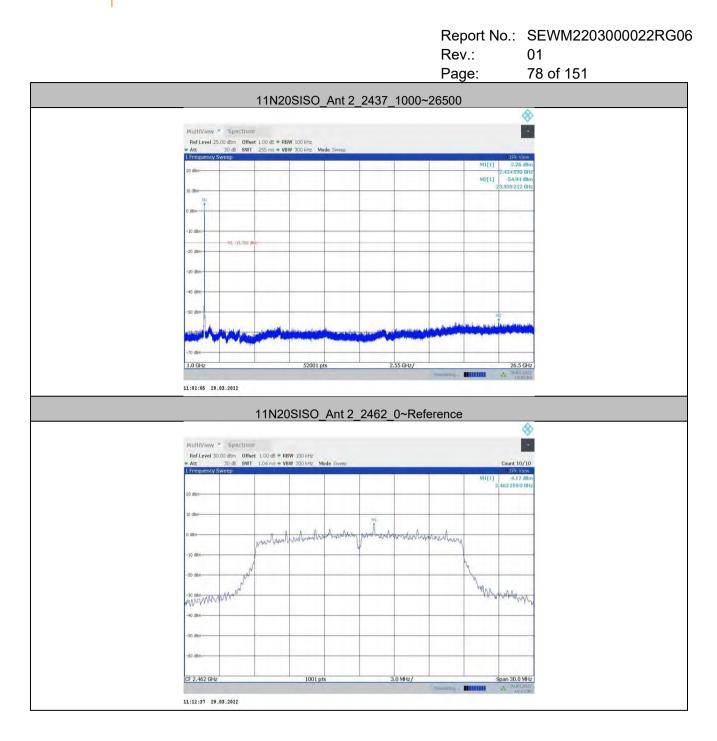




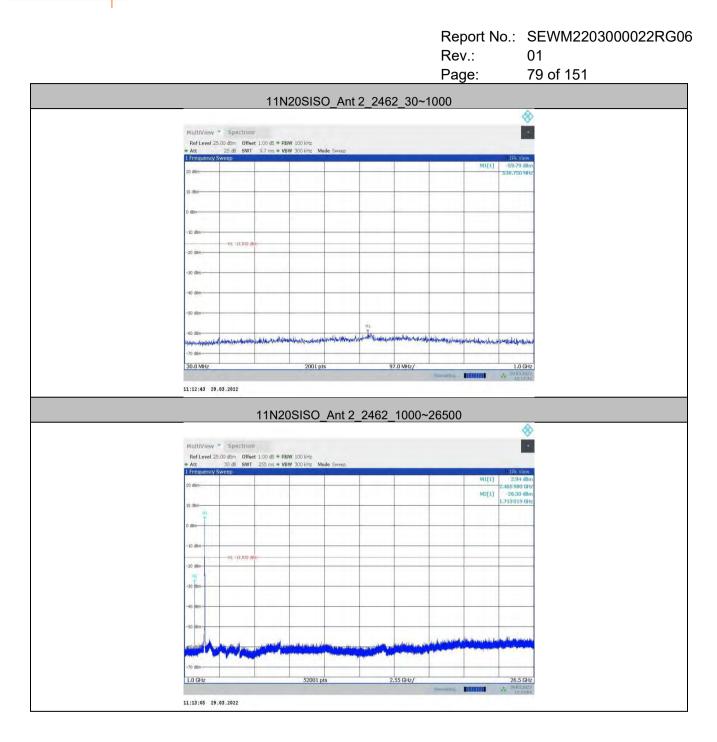




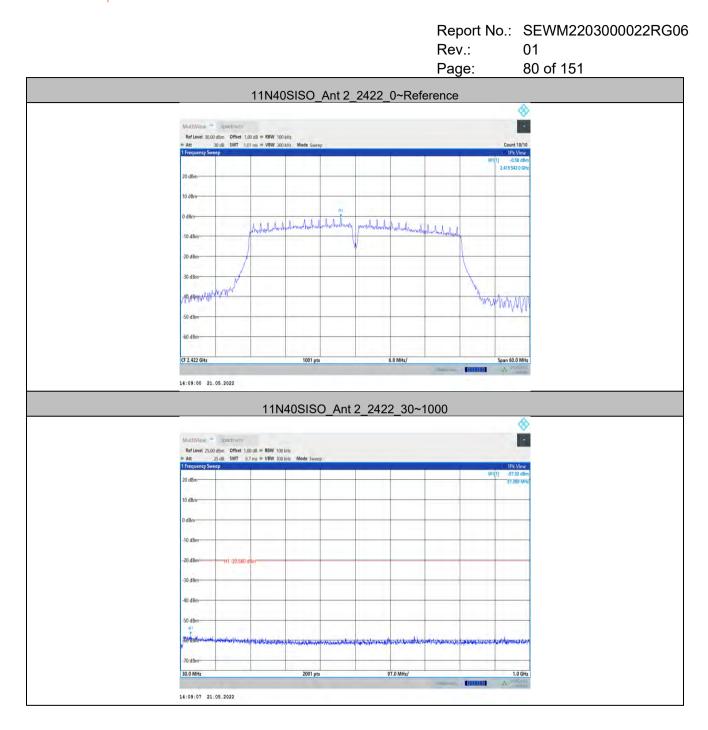












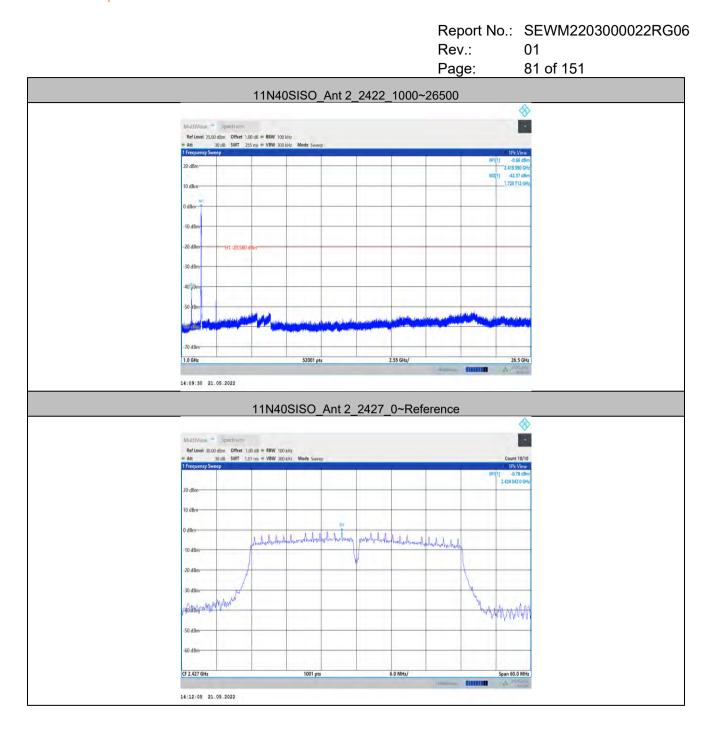


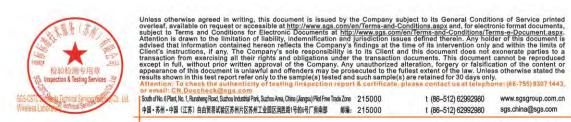
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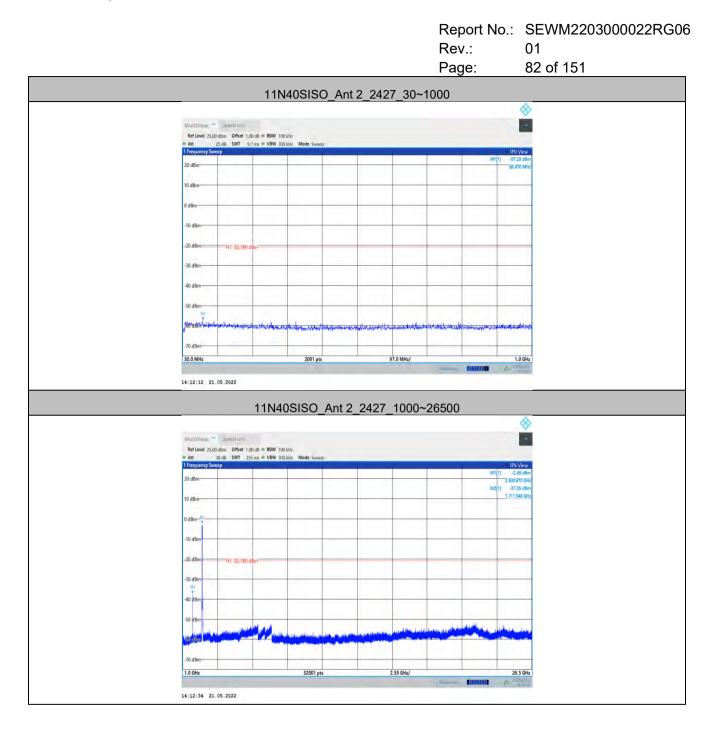
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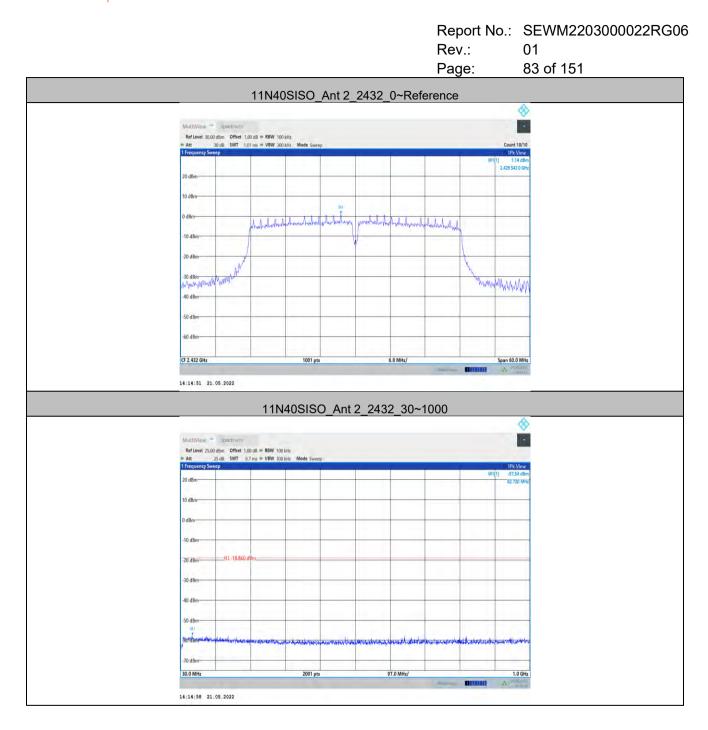
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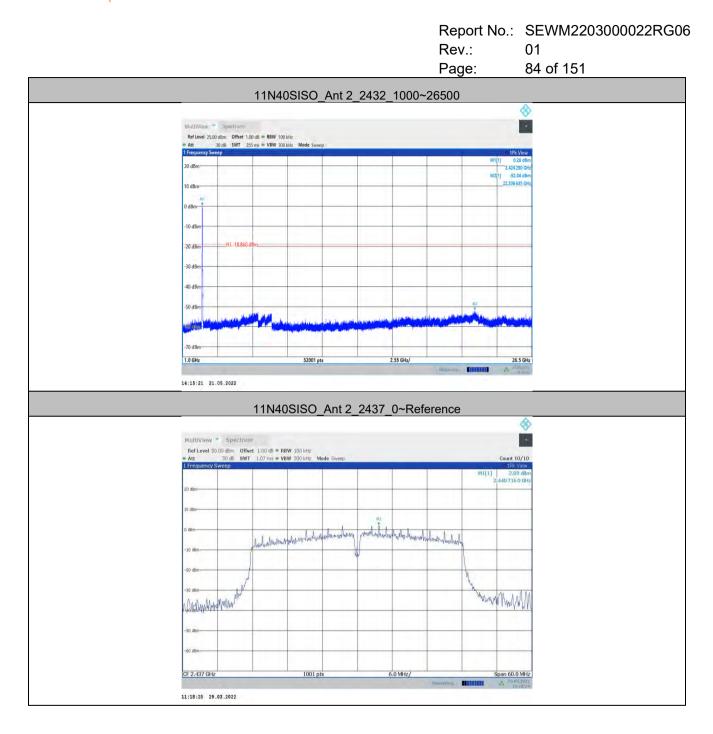




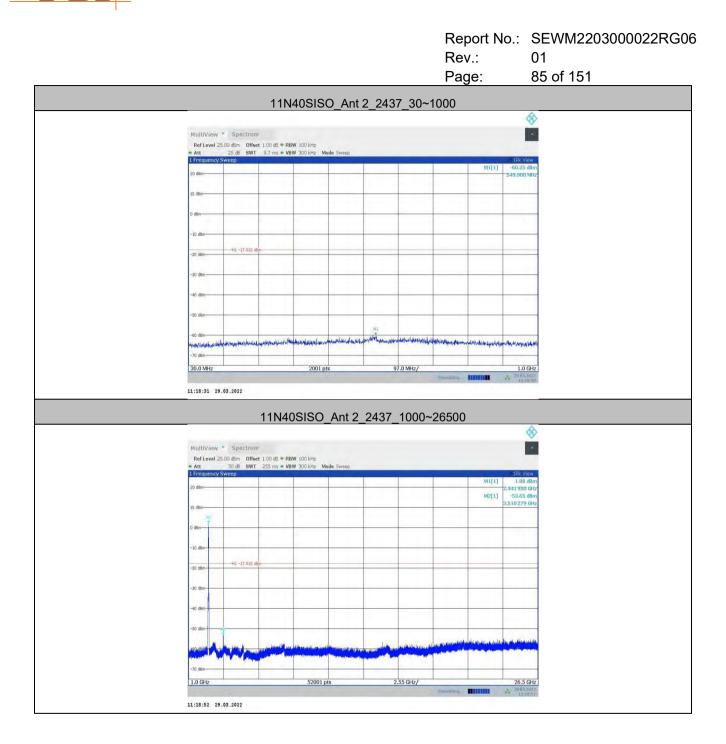
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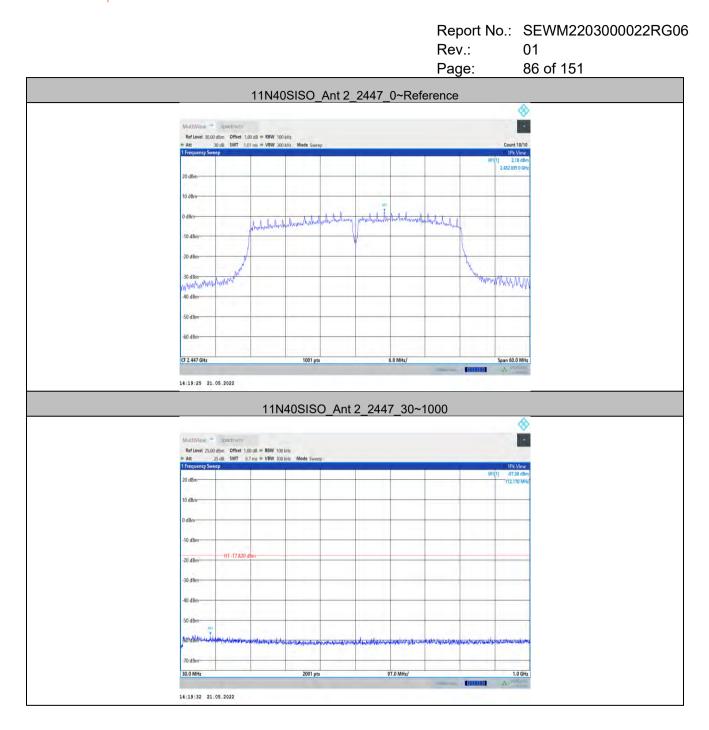
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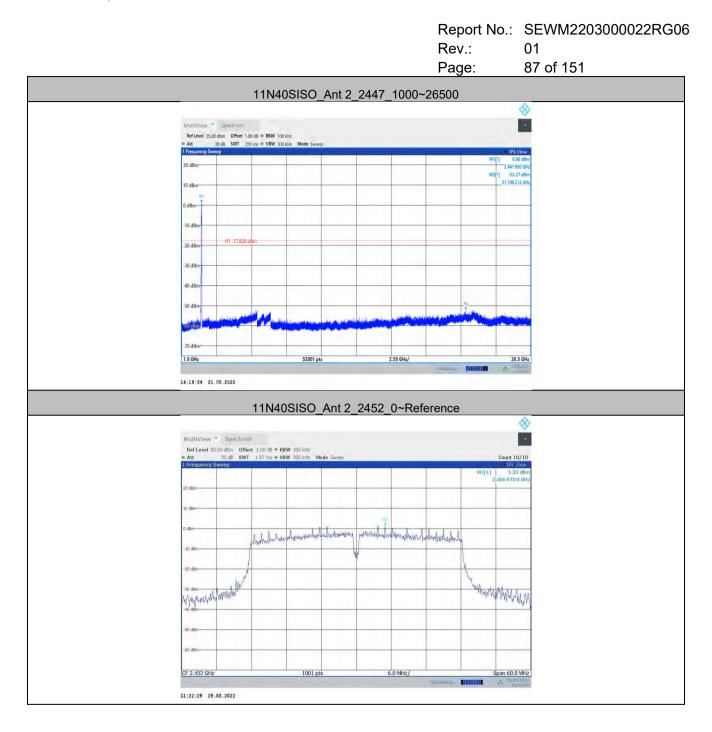




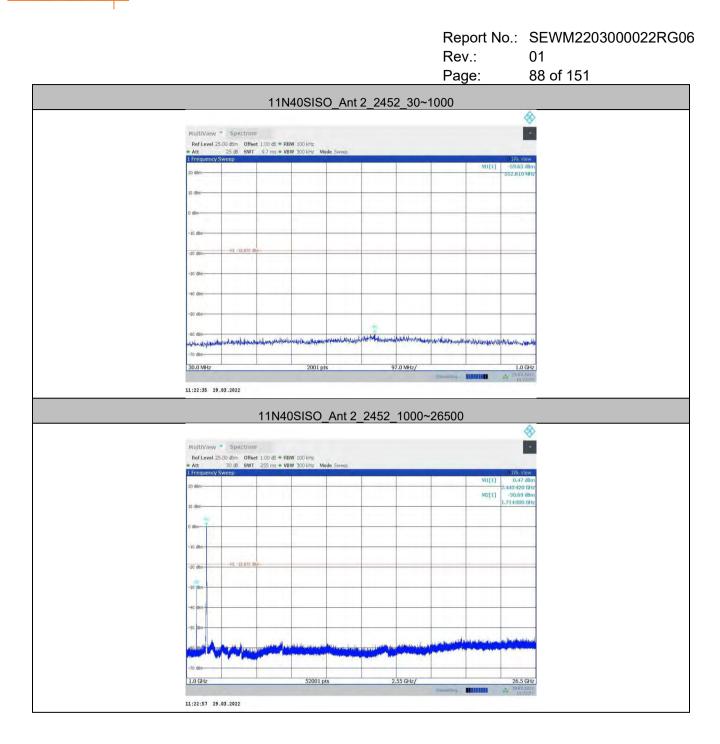


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Duty Cycle

rest	Result	

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle
			Duration [ms]	Felioù [ilis]	[/0]
11B	Ant 2	2412	8.40	8.43	99.64
11G	Ant 2	2412	1.39	1.44	96.53
11N20SISO	Ant 2	2412	1.30	1.35	96.30
11N40SISO	Ant 2	2422	0.64	0.69	92.75



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11B Ant 2 2412 \$ ÷ MultiView . Spectrum Ref Level 25.00 dBm Offset 1.00 dB RBW 10 MHz Att 30 dB SWT 15 ms VBW 10 MHz SGL Count 1/1 - 411 M1[1] 19.78 dB -TRG 13.80 D1[1] 20 00 F 2.412 GH 1001 pts 1.5 ms/ X-Value 5.77 ms 8.4 ms 8.43 ms V Value 19.78 dBm -0.01 dB 0.01 dB MI MI 10:36:01 29.03.2022 11G Ant 2 2412 MultiView Spectrum * Ref Level 25.00 dBm Offset 1.00 dB RBW 10 MHz Att 30 dB SWT 10 ms VBW 10 MHz SGL Count 1/1 = Att RG 17.600 dam M1[1] 16.48 dBn 6.840.00 m melit 1 march at the Adatha D1[1] 3.18 2.412 GH 1001 pts 1.0 ms/ V Value 16.48 dBm 3.18 dB 0.00 dB 6.84 ms 1.39 ms 1.44 ms M1 10:46:04 29.03.2022

Test Graphs



S

Report No.: SEWM2203000022RG06 Rev.: 01 91 of 151 Page: 11N20SISO Ant 2 2412 8 MultiView Spectrum *
 Ref Level
 25.00 dBm
 Offset
 1.00 dB
 RBW
 10 MHz

 Att
 30 dB
 SWT
 5 ms
 VBW
 10 MHz
 SGL Count 1/1 MICH 15. 01[1] F 2.412 GH 1001 pts 500.0 µs/ V Value 15.57 dBm 2.50 dB -0.00 dB 1.88 ms 1.3 ms 1.35 ms MI 10:58:41 29.03.2022 11N40SISO Ant 2 2422 \otimes Mult)View = Spect +
 Ref Level
 25.00 dBm
 Offset
 1.00 dB
 RBW
 10 MH

 Att
 30 dB
 SWT
 5 ms
 VBW
 10 MH

 RecVID
 30 dB
 SWT
 5 ms
 VBW
 10 MH
 SGL Count 1/1 1 Zero Span 20 dBm-150.00 µ 10 dBm whenting 13.900 de mal entrestate with prophysicand them poter loop and a participation of ordeligenderical problementation 0 dBm 10 dBm 20 dBm 30 dBm-40 dBm -50 dBm -60 dBm 70 dB CF 2.422 GHz 1001 pts 500.0 µs Marker Ta X-Value 160.0 μs 640.0 μs 690.0 μs 10.32 dB D1 D2 M1 M1 3.99 dB -0.31 dB 14:07:55 21.05.2022



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 SEWM2203000022RG06

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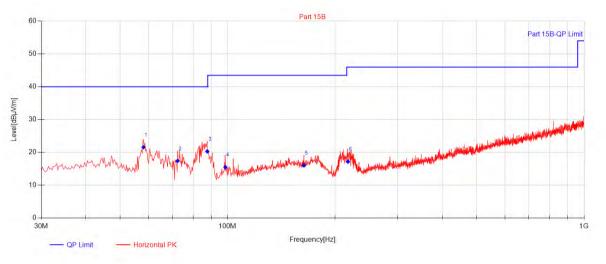
 Page:
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode:

2.4G WIFI_LF



Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.13	45.01	-23.45	21.56	40.00	18.44	218	277	Horizontal
2	72.4375	43.25	-25.86	17.39	40.00	22.61	124	147	Horizontal
3	87.715	47.15	-26.84	20.31	40.00	19.69	236	170	Horizontal
4	98.6275	41.29	-25.80	15.49	43.50	28.01	255	163	Horizontal
5	163.86	37.02	-21.01	16.01	43.50	27.49	296	0	Horizontal
6	217.695	41.58	-24.42	17.16	46.00	28.84	201	20	Horizontal



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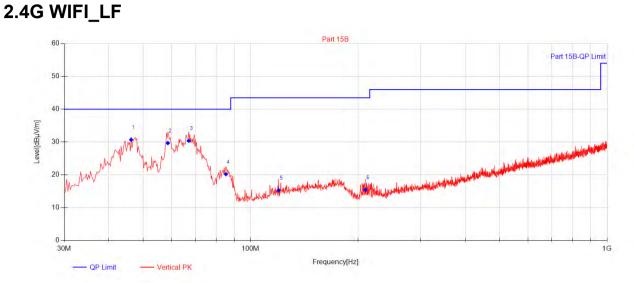
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 SEWM2203000022RG06

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Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.2475	53.26	-22.57	30.69	40.00	9.31	218	212	Vertical
2	58.615	53.18	-23.50	29.68	40.00	10.32	191	244	Vertical
3	67.1025	55.48	-25.11	30.37	40.00	9.63	172	59	Vertical
4	85.29	46.89	-26.68	20.21	40.00	19.79	200	293	Vertical
5	119.9675	39.19	-23.91	15.28	43.50	28.22	236	237	Vertical
6	210.1775	40.22	-24.77	15.45	43.50	28.05	251	284	Vertical



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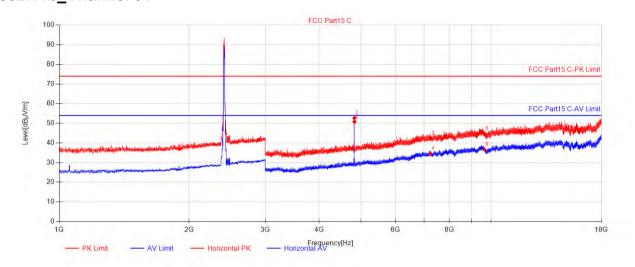
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Transmitter emission above 1GHz 802.11b Channel 01



Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	65.81	-13.15	52.66	74.00	21.34	184	221	Horizontal
2	4824.5	64.00	-13.15	50.85	54.00	3.15	236	134	Horizontal
3	7236.0000	49.07	-6.96	42.11	74.00	31.89	299	266	Horizontal
4	7236.0000	41.50	-6.96	34.54	54.00	19.46	170	188	Horizontal
5	9648.0000	45.55	-1.17	44.38	74.00	29.62	283	270	Horizontal
6	9648.0000	37.79	-1.17	36.62	54.00	17.38	214	82	Horizontal



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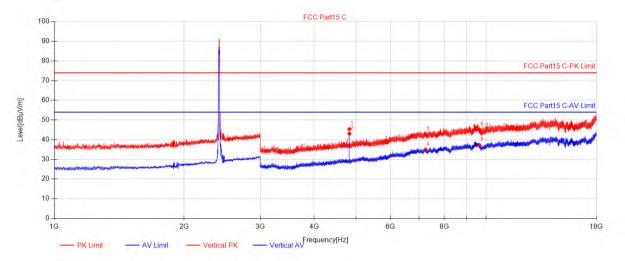
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 SEWM2203000022RG06

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802.11b	Channel 01
002.110	

Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	58.57	-13.15	45.42	74.00	28.58	184	292	Vertical
2	4824.5	56.19	-13.15	43.04	54.00	10.96	172	267	Vertical
3	7236.0000	49.60	-6.96	42.64	74.00	31.36	233	136	Vertical
4	7236.0000	41.93	-6.96	34.97	54.00	19.03	177	240	Vertical
5	9648.0000	38.49	-1.17	37.32	54.00	16.68	194	160	Vertical
6	9648.0000	46.20	-1.17	45.03	74.00	28.97	166	357	Vertical



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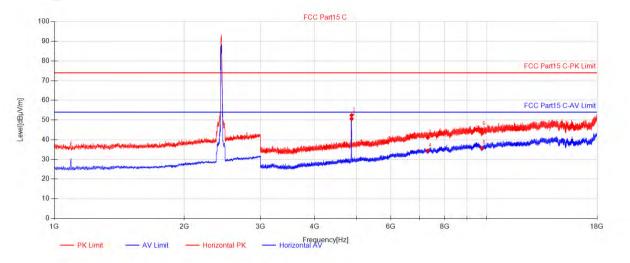
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Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	65.45	-13.01	52.44	74.00	21.56	142	142	Horizontal
2	4874.5	63.63	-13.00	50.63	54.00	3.37	100	133	Horizontal
3	7311.0000	48.23	-7.17	41.06	74.00	32.94	122	28	Horizontal
4	7311.0000	41.56	-7.17	34.39	54.00	19.61	172	108	Horizontal
5	9748.0000	36.94	-1.18	35.76	54.00	18.24	198	318	Horizontal
6	9748.0000	46.49	-1.18	45.31	74.00	28.69	144	255	Horizontal

802.11b_Channel 06



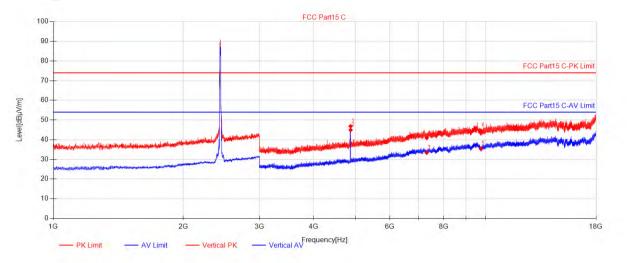
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Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	59.86	-13.01	46.85	74.00	27.15	111	190	Vertical
2	4874.5	57.95	-13.00	44.95	54.00	9.05	253	190	Vertical
3	7311.0000	40.54	-7.17	33.37	54.00	20.63	201	264	Vertical
4	7311.0000	48.06	-7.17	40.89	74.00	33.11	178	28	Vertical
5	9748.0000	36.72	-1.18	35.54	54.00	18.46	122	145	Vertical
6	9748.0000	45.82	-1.18	44.64	74.00	29.36	192	163	Vertical

802.11b_Channel 06



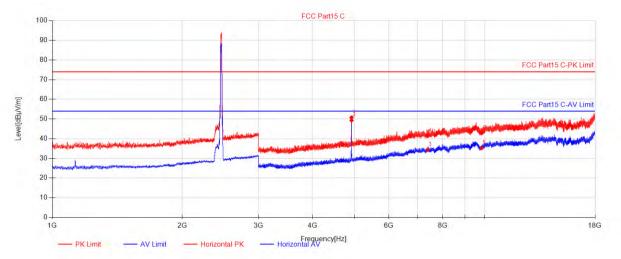
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Final	Data List								
1 mai									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	63.65	-12.89	50.76	74.00	23.24	196	154	Horizontal
2	4924.5	62.18	-12.89	49.29	54.00	4.71	145	136	Horizontal
3	7386.0000	41.37	-6.96	34.41	54.00	19.59	155	266	Horizontal
4	7386.0000	48.35	-6.96	41.39	74.00	32.61	172	295	Horizontal
5	9848.0000	36.39	-1.12	35.27	54.00	18.73	136	144	Horizontal
6	9848.0000	43.94	-1.12	42.82	74.00	31.18	201	84	Horizontal

802.11b_Channel 11



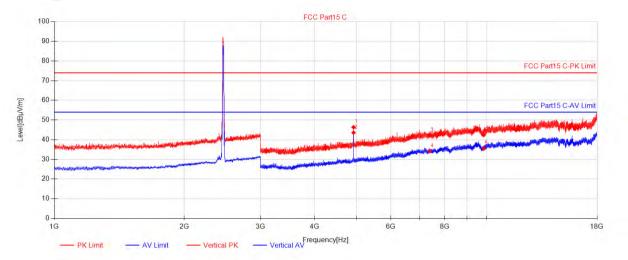
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Final	Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	59.24	-12.89	46.35	74.00	27.65	142	291	Vertical
2	4924.5	56.46	-12.89	43.57	54.00	10.43	195	267	Vertical
3	7386.0000	49.07	-6.96	42.11	74.00	31.89	172	273	Vertical
4	7386.0000	41.08	-6.96	34.12	54.00	19.88	190	294	Vertical
5	9848.0000	36.55	-1.12	35.43	54.00	18.57	149	233	Vertical
6	9848.0000	43.47	-1.12	42.35	74.00	31.65	238	188	Vertical

802.11b_Channel 11

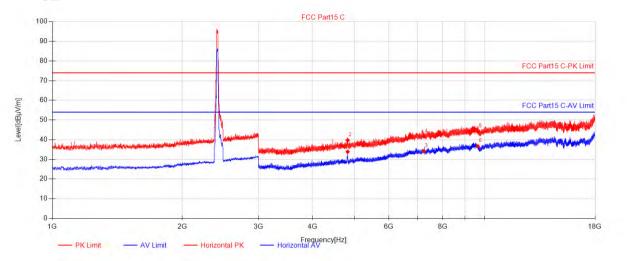


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802.11g	Channel 01
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4823.5	47.01	-13.15	33.86	54.00	20.14	154	109	Horizontal	
2	4824.0000	52.87	-13.15	39.72	74.00	34.28	235	135	Horizontal	
3	7236.0000	41.12	-6.96	34.16	54.00	19.84	189	4	Horizontal	
4	7236.0000	48.58	-6.96	41.62	74.00	32.38	192	271	Horizontal	
5	9648.0000	45.43	-1.17	44.26	74.00	29.74	181	4	Horizontal	
6	9648.0000	37.85	-1.17	36.68	54.00	17.32	172	109	Horizontal	



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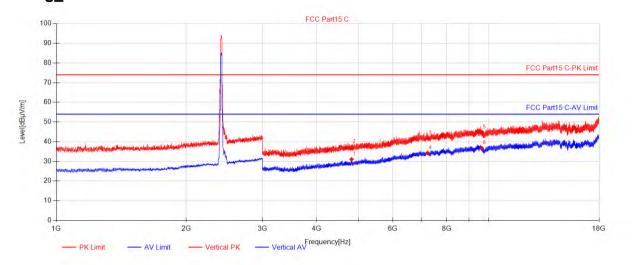
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Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4821.5	44.21	-13.16	31.05	54.00	22.95	292	215	Vertical		
2	4824.0000	50.28	-13.15	37.13	74.00	36.87	256	57	Vertical		
3	7236.0000	48.63	-6.96	41.67	74.00	32.33	173	84	Vertical		
4	7236.0000	41.19	-6.96	34.23	54.00	19.77	248	293	Vertical		
5	9648.0000	45.78	-1.17	44.61	74.00	29.39	200	28	Vertical		
6	9648.0000	37.91	-1.17	36.74	54.00	17.26	231	155	Vertical		





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