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TEST REPORT

Test Result :	PASS *		
Date of Issue:	2022/4/2		
Date of Test:	2022/2/22 to 2022/3/31		
Date of Receipt:	2022/2/12		
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C		
FCC ID:	XMR202201AF51Y		
Trade Mark:	QUECTEL		
Model No.:	AF51Y		
EUT Description:	Wi-Fi & Bluetooth Module		
Address of Manufacturer:	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 Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233		
Applicant:	Quectel Wireless Solutions Co., Ltd.		
Application No.:	HR/2021/B0010		

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		2022/3/31		Original	
02		2022/4/2		Add A2LA+ILAC logo	

Prepared By	weller lin	
Checked By	(Weller Liu) / Test Supervisor	

Remark: This report supersedes our previous report SUHR/2021/B001003, issued on 2021-03-31, which is hereby deemed null and void.



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2 Test Summary

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Test Item	FCC Rules No.	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle			Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	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:	Weller Liu, King-p Li, Nature Shen, 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

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EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	AF51Y	
Trade Mark:	QUECTEL	
Hardware Version:	R1.0	
Software Version:	AG525RGLAAR01A16M4G_OCPU _01.011 (Remark: the SW of branch is Post-CS[13]0.0.125.1)	
IEEE 802.11 WLAN Mode Supported	 802.11b (20 MHz channel bandwidth), 802.11g (20 MHz channel bandwidth) 802.11n (20 MHz channel bandwidth), 802.11n (40 MHz channel bandwidth) 	
Operation Frequency:	 2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth. 	
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g : OFDM IEEE for 802.11n(HT20) : OFDM IEEE for 802.11n(HT40) : OFDM	
Sample Type:	Portable Device, Module	
Antenna Type:	🛛 External, 🗌 Integrated	
Smart System	 ☐ SISO (for 802.11b/g/n), ☐ MIMO (for 802.11b/g/n): 2 Tx & 2 Rx, ☐ Diversity (for 802.11b/g) : Tx & Rx 	
Antonna Caint.	Provided by client	
Antenna Gain*:	-1.97dBi(Ant1); -1.38dBi(Ant2);	
	Provided by client	
RF Cable*:	0.5dB	

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				
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

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Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(℃) Voltage(V)		
NTNV	22~23	3.8	
LTNV	-40	3.8	
HTNV	85	3.8	
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature		<u>.</u>	

High Extreme Test Temperature HT:

3.6 Description of Support Units

Manufacturer	Description	Model
Quectel	Mother board	V2X&5G-EVB
Qualcomm	Test Software	QRCT4 tool
Dong Guan City GangQi Electronic Co.,Ltd	Adapter	QG36-120300-AX
JONKEY	USB cable	XY02-354-SAM-TYPE-C
Amphenol	Antenna	M3 MIMO Antenna

Remark:all above the information of table are provided by client.



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4 Test results and Measurement Data

4.1 Antenna Requirement

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

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 on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.97dBi(Ant1); -1.38dBi(Ant2).

Note:

Frequency	Gain1	Gain2	Directional Gain
2412-2462	-1.97	-1.38	-1.66

Remark: Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

d) Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi

(i) If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 /N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G_I/10} + 10^{G_2/10} + ... + 10^{G_N/10})/N_{ANT}] dBi$



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4.2 AC Power Line Conducted Emissions

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Test Requirement:	47 CFR Part 15C Sectio	n 15.207		
Test Method:	ANSI C63.10: 2013			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Test Frequency Range:	150kHz to 30MHz			
Limit:		Limit (d	BuV)	
	Frequency range (MHz) Quasi-peak Average			
	0.15-0.5 66 to 56* 56 to 46*			
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	 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 wa 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 gr between the closest poin the EUT and associated In order to find the maxin 	ed with a vertical ground refe n from the vertical ground refe e plane was bonded to the ho SN 1 was placed 0.8 m from the ed to a ground reference plane round reference plane. This d hts of the LISN 1 and the EUT equipment was at least 0.8 n num emission, the relative po- interface cables must be cha	ugh a LISN 1 (Line $D\Omega/50\mu$ 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 rence plane. The rear erence plane. The rizontal ground he boundary of the he for LISNs istance was 7. All other units of h from the LISN 2. ositions of	

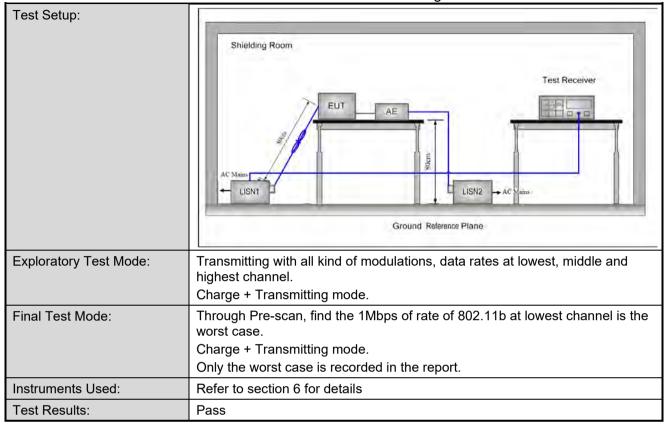


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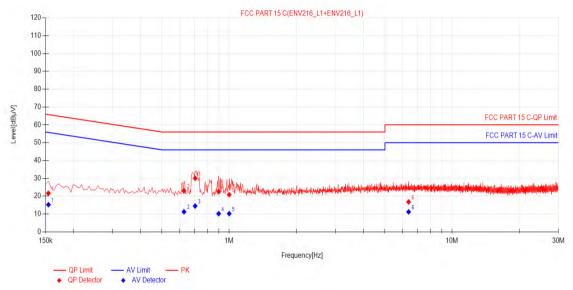
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Measurement Data

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.

Live Line:



Fina	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	21.67	65.75	44.08	15.24	55.75	40.51	PASS
2	0.6270	10.52	23.02	56.00	32.98	11.27	46.00	34.73	PASS
3	0.7035	10.58	30.03	56.00	25.97	14.52	46.00	31.48	PASS
4	0.8970	10.60	22.51	56.00	33.49	10.19	46.00	35.81	PASS
5	1.0005	10.49	20.87	56.00	35.13	10.22	46.00	35.78	PASS
6	6.3870	10.68	16.77	60.00	43.23	11.22	50.00	38.78	PASS

Remark:

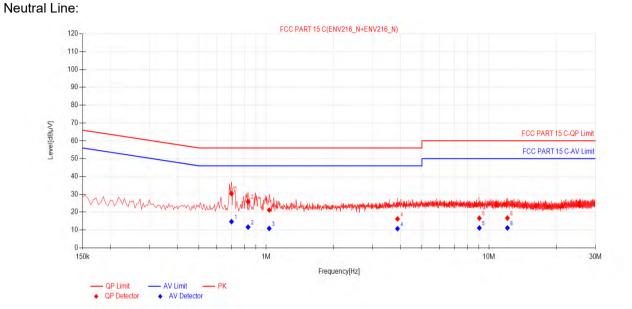
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Fina	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6990	10.81	30.41	56.00	25.59	14.69	46.00	31.31	PASS
2	0.8295	10.79	25.87	56.00	30.13	11.62	46.00	34.38	PASS
3	1.0320	10.66	21.21	56.00	34.79	10.86	46.00	35.14	PASS
4	3.8850	10.73	16.24	56.00	39.76	10.74	46.00	35.26	PASS
5	9.0510	10.63	16.61	60.00	43.39	11.14	50.00	38.86	PASS
6	12.0930	10.65	16.69	60.00	43.31	11.18	50.00	38.82	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + 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 Section 11.9.1.3 Test Setup: 0 0 E.U.T Ground Reference Plane * Test with power meter (Detector function: Peak) Test Instruments: Refer to section 6 for details Transmitting with all kind of modulations, data rates Exploratory Test Mode: Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Limit: 30dBm Test Results: Pass The detailed test data see: Appendix

4.4 Conducted Output Power



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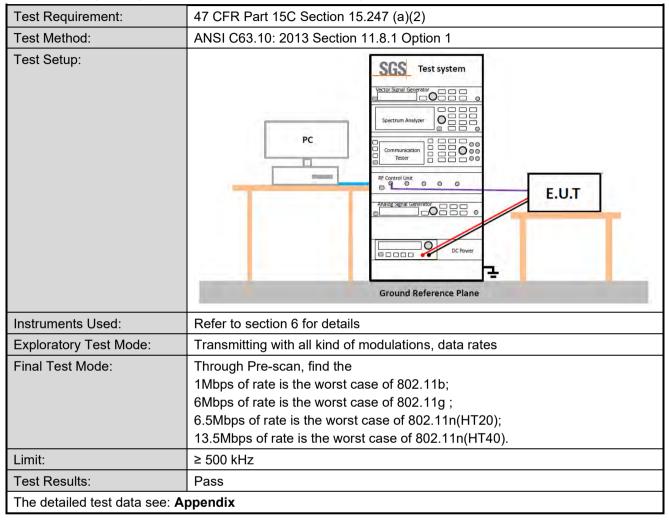
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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Test Requirement: 47 CFR Part 15C Section 15.247 (e) Test Method: ANSI C63.10 :2013 Section 11.10.2 Test Setup: SGS Test system ctor Signal Generator 0 PC Uni 0 0 E.U.T 10 DC Powe 0000 ı Ground Reference Plane Test Instruments: Refer to section 6 for details Transmitting with all kind of modulations, data rates Exploratory Test Mode: Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Limit: ≤8.00dBm/3kHz Test Results: Pass The detailed test data see: Appendix

4.6 Power Spectral Density



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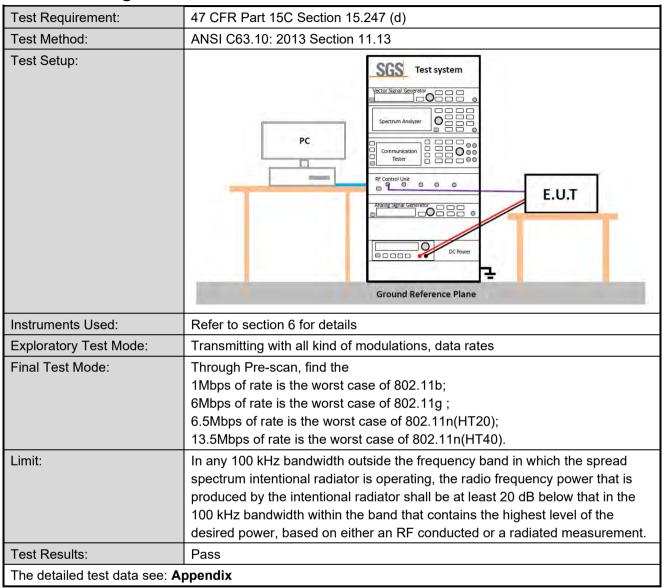
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4.7 Band-edge for RF Conducted Emissions





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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 Image: Server and Se			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	 Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). 			
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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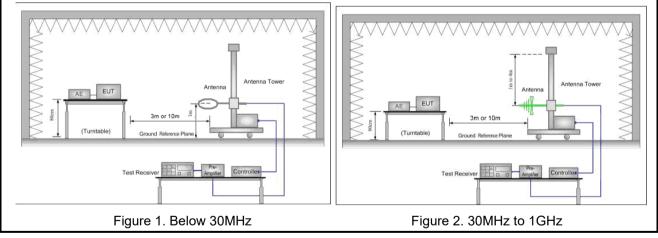
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.20	05				
Test Method:	ANSI C63.10 :2013 Sect	ion 11.12					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency Field strength (microvolt/meter) Limit (dBuV/m) Remark Measurem distance (
	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.						

Test Setup:

S





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	Im or 3m Antenna Tower Im or 3m Im or 3m Im or 3m
	Figure 3. Above 1 GHz
Test Procedure:	 a. For below 1GHz(9KHz start), 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(10th harmonic), 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/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 maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle 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.
	 the result which was 20dB lower than the limit line was not reported I. 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.
Test Configuration:	Measurements Below 1000MHz
	1



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	 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 Satisfying this condition may require incorreducing the span. If this condition carshall be set to peak. Sweep time = auto 	lz span / (# of poi reasing the nur	nts in sweep) ≤ (RBW / 2). nber of points in the sweep
	 Perform a trace average of at least 10 Value = Reading + Factor(Antenna Factor) 		– Preamplifier Factor).
Exploratory Test Mode:	Transmitting with all kind of modulations Charge + Transmitting mode.	, data rates.	
Final Test Mode:	Pretest the EUT at Charge + Transmittin Through Pre-scan, find the 1Mbps of rate is the worst case of 802.1 6Mbps of rate is the worst case of 802.1 6.5Mbps of rate is the worst case of 802 13.5Mbps of rate is the worst case of 80 For below 1GHz, through Pre-scan, find channel is the worst case. Only the worst	1b; 1g; .11n(HT20); 2.11n(HT40); the 1Mbps of r	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data see	e: Appendix		



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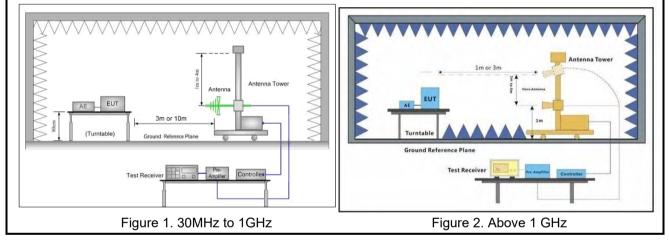
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4.10Restricted bands around fundamental frequency

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

Test Setup:

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F	
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
	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).
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Exploratory rest wode.	5



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	1 490. 20 01 210
	Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.
	Through Pre-scan, find the
	1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g;
	6.5Mbps of rate is the worst case of 802.11n(HT20);
	13.5Mbps of rate is the worst case of 802.11n(HT40);
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: 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	±7.25x 10 ⁻⁸ GHz
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 ⁻⁸ GHz
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
0		± 4.8dB (30M -1GHz)
8	Radiated Emission	± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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Equipment List 6

Tonscend Test System								
				Cal. date	Cal.Due date			
Equipment	Manufacturer	Model No.	Inventory No.	(yyyy-mm- dd)	(yyyy-mm- dd)			
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			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/19	2023/2/18			
Power meter	wer meter Anritsu		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			
Measurement Tonscend		JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27			

CE Test Equipment								
Equipment	Equipment Manufacturer		Model No. Inventory No.		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	2022/2/16	2023/2/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/16	2023/2/15			
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15			



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RSE Test Equipment 996-01									
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&SCH WARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27				
Test receiver	ROHDE&SCH WARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15				
Receiving antenna	ceiving antenna MESS- VULB 9163 ELEKTRONIK		SUWI-01-11-01	2021/5/16	2022/5/15				
Receiving antenna	ig antenna MESS- BBHA 9120D ELEKTRONIK		SUWI-01-11-02	2021/5/16	2022/5/15				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13				
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15				
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15				
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15				
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9				
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR				
Measurement Software	Tonscend	JS32-RSE 3.0.0.2	SUWI-02-09-04	NCR	NCR				



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7 **Photographs – Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	8.04	2407.96	2416.00	≥0.5	PASS
	Ant2	2412	8.04	2407.96	2416.00	≥0.5	PASS
	Ant1	2437	8.04	2432.96	2441.00	≥0.5	PASS
11b	Ant2	2437	8.04	2432.96	2441.00	≥0.5	PASS
	Ant1	2462	8.04	2457.96	2466.00	≥0.5	PASS
	Ant2	2462	8.04	2457.96	2466.00	≥0.5	PASS
	Ant1	2422	33.84	2405.68	2439.52	≥0.5	PASS
	Ant2	2422	28.80	2409.44	2438.24	≥0.5	PASS
11-100100	Ant1	2437	33.84	2420.68	2454.52	≥0.5	PASS
11n40SISO	Ant2	2437	32.64	2421.88	2454.52	≥0.5	PASS
	Ant1	2452	30.08	2436.96	2467.04	≥0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	≥0.5	PASS
	Ant1	2412	13.88	2405.64	2419.52	≥0.5	PASS
	Ant2	2412	15.08	2404.44	2419.52	≥0.5	PASS
44 000	Ant1	2437	15.08	2429.48	2444.56	≥0.5	PASS
11g-CDD	Ant2	2437	15.08	2429.44	2444.52	≥0.5	PASS
	Ant1	2462	13.80	2455.72	2469.52	≥0.5	PASS
	Ant2	2462	12.60	2456.96	2469.56	≥0.5	PASS
	Ant1	2412	12.96	2406.56	2419.52	≥0.5	PASS
	Ant2	2412	13.84	2405.68	2419.52	≥0.5	PASS
	Ant1	2437	15.08	2429.44	2444.52	≥0.5	PASS
11n20MIMO	Ant2	2437	12.60	2429.44	2442.04	≥0.5	PASS
	Ant1	2462	13.80	2455.68	2469.48	≥0.5	PASS
	Ant2	2462	13.00	2456.92	2469.92	≥0.5	PASS
	Ant1	2422	30.00	2406.96	2436.96	≥0.5	PASS
	Ant2	2422	33.84	2405.68	2439.52	≥0.5	PASS
11n40MIMO	Ant1	2437	31.36	2420.68	2452.04	≥0.5	PASS
	Ant2	2437	33.84	2420.68	2454.52	≥0.5	PASS
	Ant1	2452	32.56	2435.68	2468.24	≥0.5	PASS



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Ant2	2452	32.56	2434.48	2467.04	≥0.5	PASS	



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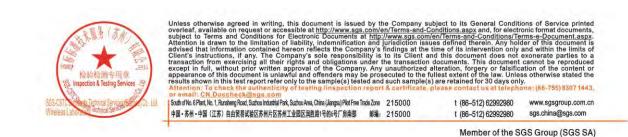
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11b Ant1 2412 \$ + MultiView Spectrum Ref Level 25.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Made O GH M2[1] 8.64 dB mm Mahas ann a -H1 2.640 dB MM M mphly My. 4.0 MHz/ 2.412 GH 1001 pts Span 40.0 MHz X-Value 2.407 96 GHz 2.412 96 GHz 8.04 MHz V Value 3.66 dBm 8.64 dBm -0.09 dB 10:12:53 28.02.2022 11b Ant2 2412 MultiView . Spectrum Ref Level 25.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.04 ms = VBW 300 kHz Mode M2[1] 8.90 d Mulut which H1 2,900 dt wh M MM ILLAN 2.412 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.407 96 GHz 2.412 96 GHz 8.04 MHz V Value 4.13 dBm 8.90 dBm -0.49 dB 10:40:11 28.02.2022

Test Graphs



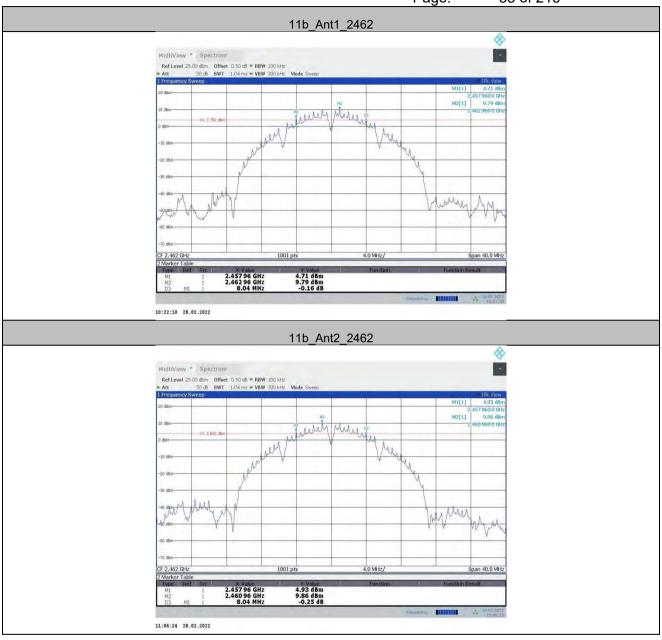
Report No.: SUHR/2021/B001003 Rev.: 02 Page: 34 of 216 11b Ant1 2437 8 MultiView . Spectrum .
 Ref Level 25.00 dBm
 Offset 0.50 dB = RBW 100 kHz

 Att
 30 dB
 SWT
 1.04 ms = VBW 300 kHz
 M1[1] M2[1] white Maria -H1 2.280 d M Me 6 MA Madad. F 2.437 GH 1001 pts 4.0 MHz/ Span 40.0 MHz 2.432 96 GHz 2.435 96 GHz 8.04 MHz 3.43 dBm 8.28 dBm -0.44 dB M1 M2 10:17:12 28.02.2022 11b Ant2 2437 8 MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW
 300 kHz
 Made M2[1] MAMAM MALLAN H1 3.500 x M Au Mr. White have 4.0 MHz/ 2.437 GH 1001 pts Span 40.0 MHz X-Value 2.432 96 GHz 2.437 96 GHz 8.04 MHz V Value 4.30 dBm 9.50 dBm 0.13 dB 10:47:15 28.02.2022



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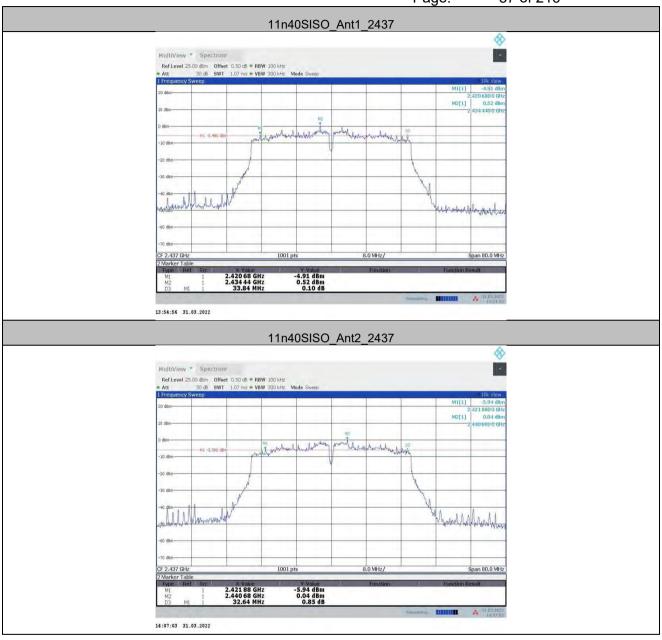




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 Ref Level
 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.07 ms
 VBW
 300 kHz
 MI[1] 060 0 GH M2[1] while who when had all and any why be planted by H1 -5 730 de uninternal with white and it's sunderformathy market F 2.452 GH 1001 pts 8.0 MHz/ Span 80.0 MHz 2.436 96 GHz 2.454 48 GHz 30.08 MHz -4.66 dBm 0.27 dBm -0.62 dB M1 M2 13:58:15 31.03.2022 11n40SISO Ant2 2452 \$ MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

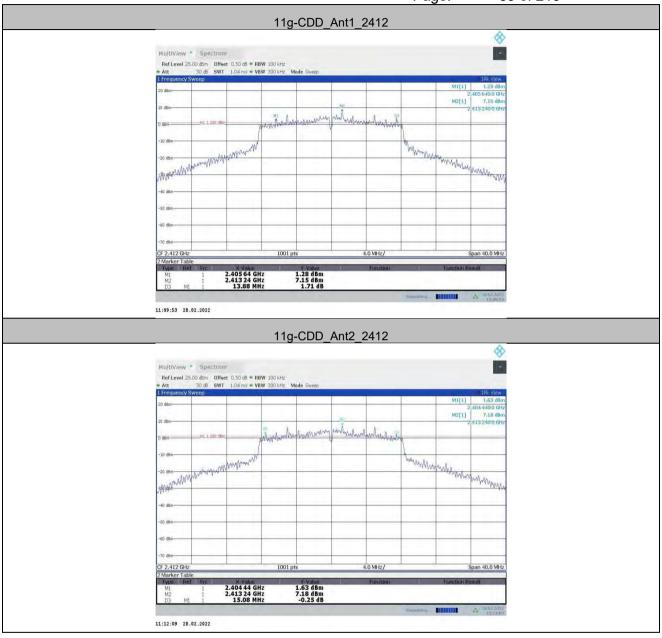
 Att
 30 dB
 SWT
 1.07 ms
 VBW
 300 kHz
 Mode -100 d M2[1] philosophian and and a series Auch mi 1 H1 -5.600 c White Miching Murulph Amarks 8.0 MHz/ 2.452 GH 1001 pts Span 80.0 MHz X-Value 2.434 48 GHz 2.455 68 GHz 35.04 MHz V Value -5.12 dBm 0.40 dBm 0.31 dB 14:11:07 31.03.2022



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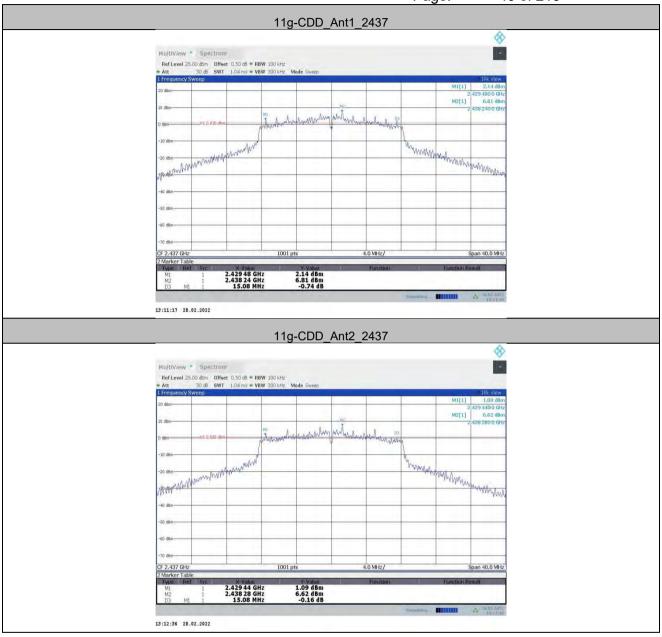




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 Ref Level 25.00 dBm
 Offset 0.50 dB = RBW 100 kHz

 Att
 30 dB
 SWT
 1.04 ms = VBW 300 kHz
 M1[1] 1,63 dB 560 0 GF 7.54 dB 1051 M2[1] m.A. muniper -H1 1.540 dB Munuh when when we want monthing avis MWWW 50 dB F 2.412 GH 1001 pts 4.0 MHz/ Span 40.0 MHz 2.406 56 GHz 2.410 72 GHz 12.96 MHz 1.63 dBm 7.54 dBm 2.26 dB M1 M2 13:20:04 28.02.2022 11n20MIMO Ant2 2412 Ŷ MultiView . Spectrum
 Ref Level
 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

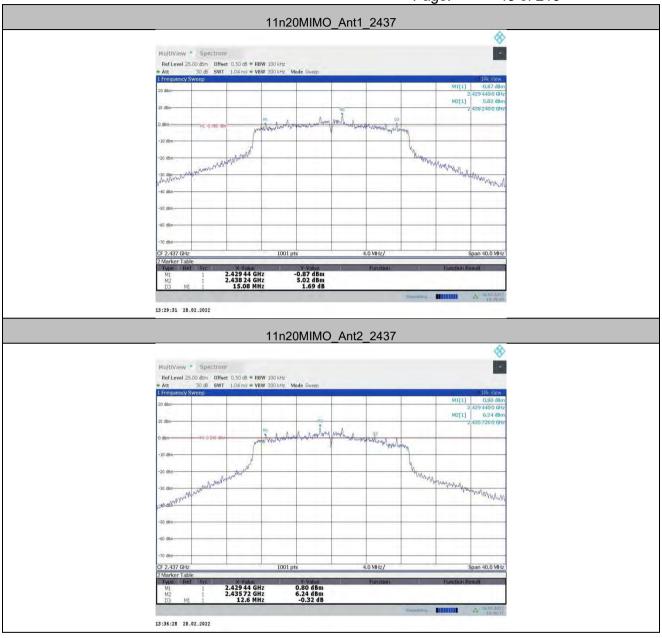
 Att
 30 dB
 SWT
 1.04 ms
 VBW
 300 kHz
 Mode M2[1] 7.03 dt him A man . 1 1 1020 Morgany marian manufantan 1 Alline No Van Andre M IN 2.412 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.405 68 GHz 2.410 76 GHz 13.84 MHz V Value 3.10 dBm 7.03 dBm -1.97 dB 13:27:23 28.02.2022



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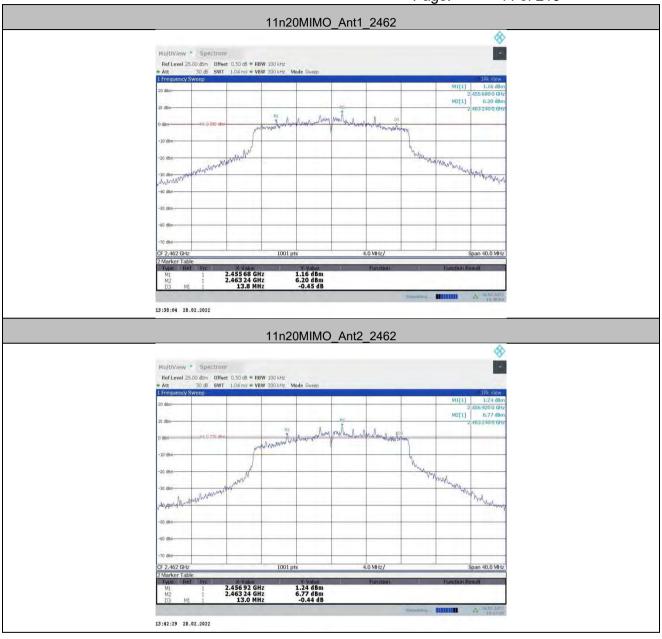




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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
	Ant1	2412	14.292	2404.815	2419.107
	Ant2	2412	14.263	2404.629	2418.892
	Ant1	2437	14.252	2429.789	2444.041
11b	Ant2	2437	14.242	2429.865	2444.108
	Ant1	2462	14.209	2454.847	2469.056
	Ant2	2462	14.296	2454.756	2469.052
	Ant1	2422	36.123	2403.952	2440.075
	Ant2	2422	36.205	2403.955	2440.160
	Ant1	2437	36.205	2418.828	2455.033
11n40SISO	Ant2	2437	36.105	2419.028	2455.133
	Ant1	2452	36.131	2433.902	2470.034
	Ant2	2452	36.159	2433.833	2469.992
	Ant1	2412	17.3	2403.313	2420.613
	Ant2	2412	19.11	2402.402	2421.512
	Ant1	2437	18.108	2427.985	2446.094
11g-CDD	Ant2	2437	17.18	2428.307	2445.487
	Ant1	2462	16.554	2453.720	2470.274
	Ant2	2462	16.664	2453.956	2470.620
	Ant1	2412	18.452	2402.846	2421.298
	Ant2	2412	19.344	2402.387	2421.731
	Ant1	2437	18.186	2427.868	2446.055
11n20MIMO	Ant2	2437	17.781	2427.970	2445.750
	Ant1	2462	18.021	2452.979	2471.000
	Ant2	2462	17.75	2453.395	2471.146
	Ant1	2422	36.286	2403.832	2440.118
44-40141140	Ant2	2422	36.408	2403.888	2440.296
11n40MIMO	Ant1	2437	36.423	2418.798	2455.220
	Ant2	2437	36.426	2418.758	2455.184



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		Repo	Report No.: SUHR/2021/B001003		
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Ant1	2452	36.227	2433.853	2470.080	
Ant2	2452	36.429	2433.748	2470.176	



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11b Ant1 2412 \$ * MultiView . Spectra Ref Level 25.00 dBm Offset 0.50 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 2 MHz Made W.N MTP. 1 habet 4.0 MHz/ 2.412 GH 1001 pts Span 40.0 MHz X-Value 2.412 48 GHz V-Value 9.00 dBn Function Result 14 292 128 802 MH Occ Bw Occ Bw Centroid 10:13:04 28.02.2022 11b Ant2 2412 \$ MultiView * Spectra Ref Level 25.00 dBm Offset 0.50 dB = RBW 500 kHz Att 30 dB SWT 1.01 ms = VBW 2 MHz Mode 1114810 G TIN 1 Ang Mumber F 2.412 GH 1001 pts 4.0 MHz/ Span 40.0 MHz X-Value 2.411 481 GHz 9.31 dBn Function Result 14.263 042 314 MHz Occ Bw Occ Bw Centroid Occ Bw Fred Offse -6.94 dB 10:40:23 28.02.2022

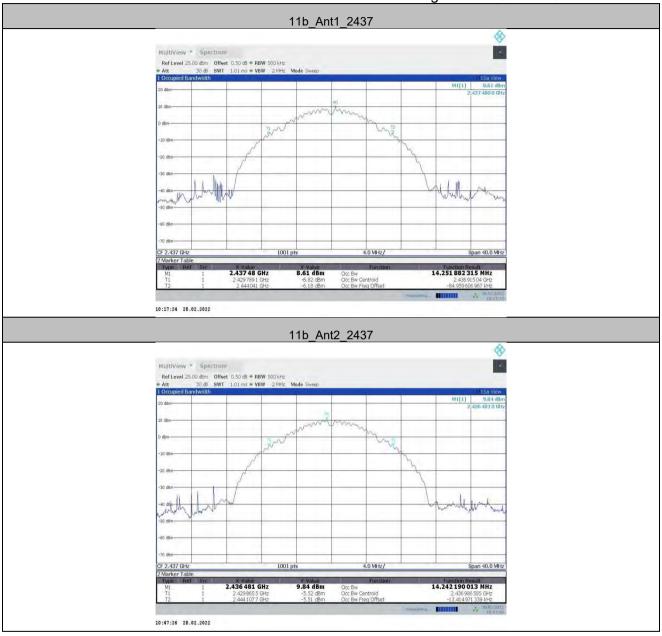
Test Graphs



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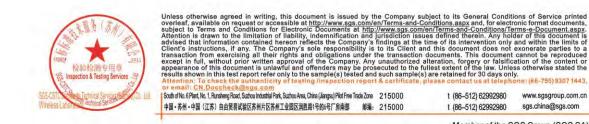
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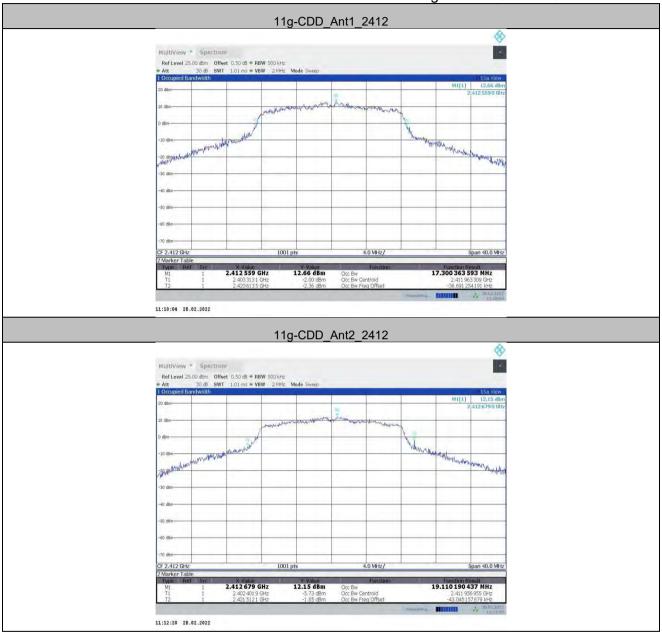




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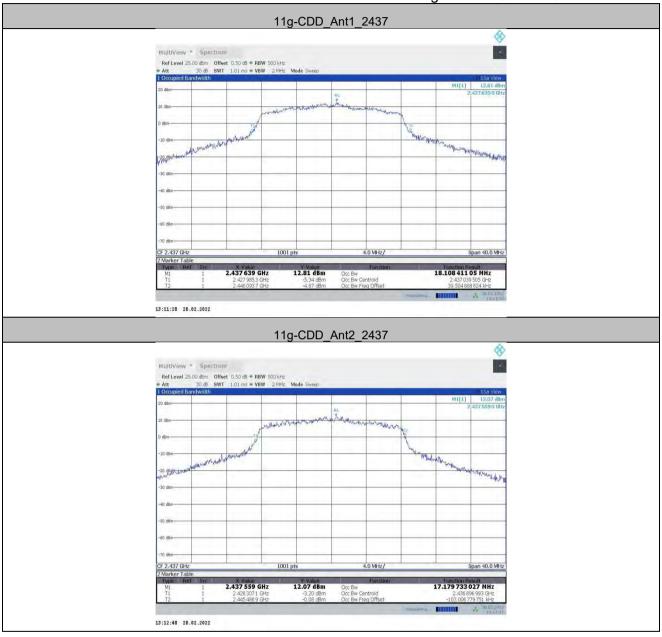




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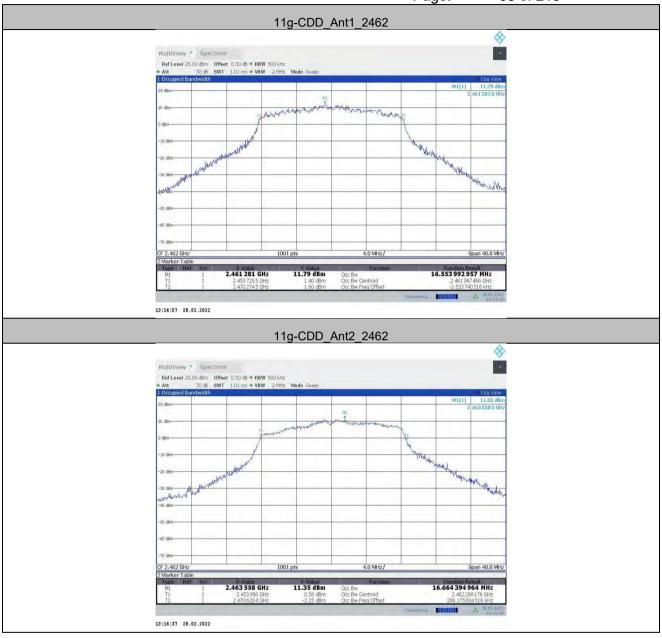




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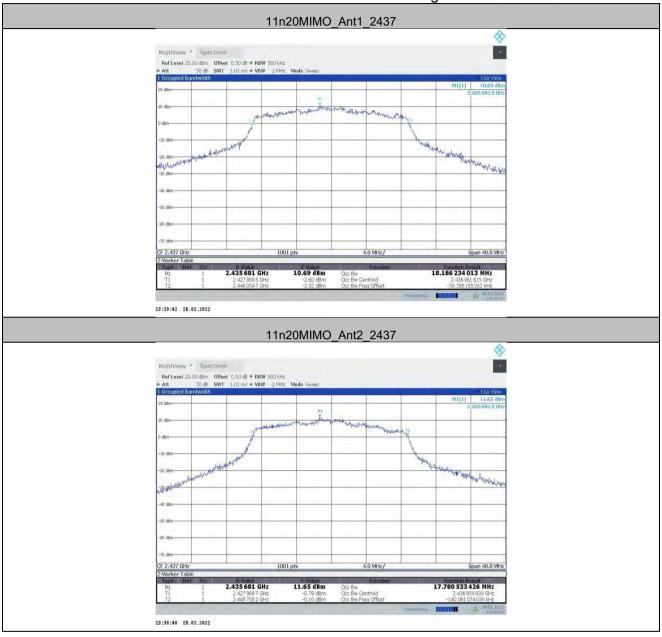




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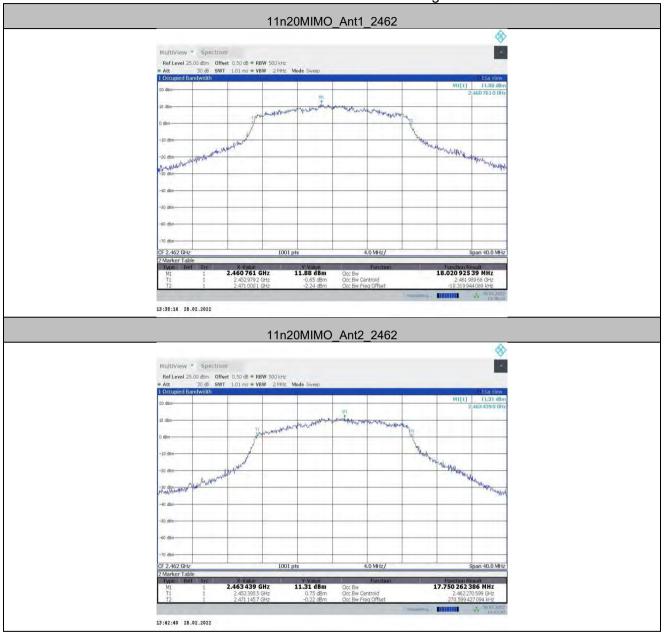




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 Ref Level 25.00 dBm
 Offset
 0.50 dB
 RBW
 1 MHz

 Att
 30 dB
 SWT
 1.01 ms
 VBW
 3 MHz
 M1[1] 12 America hymph. h le F 2.422 GH 1001 pts 8.0 MHz/ Span 80.0 MHz X-Value 2.419 203 GHz V Value 11.69 dBm Function Result 36.285 948 932 MH Occ Bw Occ Bw Centroid 13:47:22 28.02.2022 11n40MIMO Ant2 2422 8 MultiView . Spectru
 Ref Level 25.00 dBm
 Offset 0.50 dB
 RBW 1 MHz

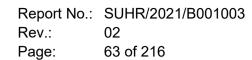
 Att
 30 dB
 SWT
 1.01 ms
 VBW 3 MHz
 M and half when M.M. 2.422 GH 1001 pts 8.0 MHz/ Span 80.0 MHz 2.424158 GHz 12.12 dBn Function Result 36.408 473 877 MH Occ Bw Occ Bw Centroid 13:51:37 28.02.2022

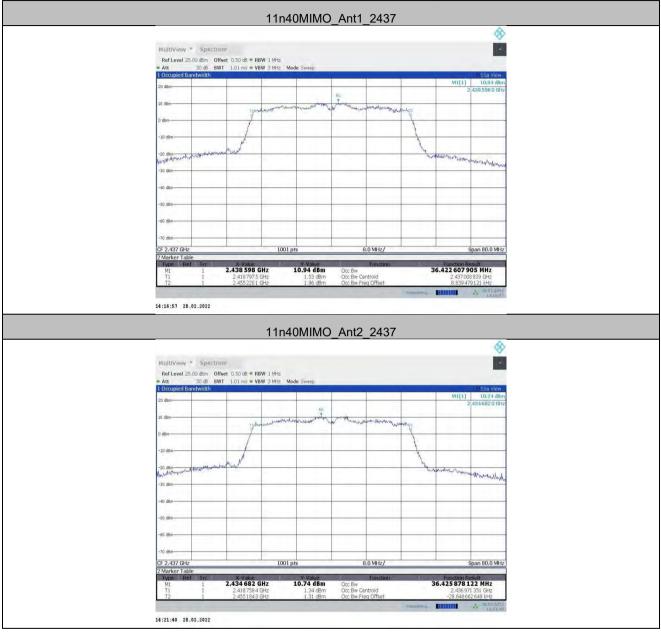


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Maximum conducted output power Test Result Peak

S

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
	Ant1	2412	19.67	≤30.00	PASS
	Ant2	2412	20.09	≤30.00	PASS
	Ant1	2437	19.79	≤30.00	PASS
11b	Ant2	2437	20.24	≤30.00	PASS
	Ant1	2462	20.11	≤30.00	PASS
	Ant2	2462	20.33	≤30.00	PASS
	Ant1	2422	19.98	≤30.00	PASS
	Ant2	2422	20.29	≤30.00	PASS
	Ant1	2437	19.96	≤30.00	PASS
11n40SISO	Ant2	2437	20.04	≤30.00	PASS
	Ant1	2452	19.76	≤30.00	PASS
	Ant2	2452	20.43	≤30.00	PASS
	Ant1	2412	20.89	≤30.00	PASS
	Ant2	2412	21.32	≤30.00	PASS
	total	2412	24.12	≤30.00	PASS
	Ant1	2437	20.67	≤30.00	PASS
11g-CDD	Ant2	2437	21.36	≤30.00	PASS
	total	2437	24.04	≤30.00	PASS
	Ant1	2462	21.00	≤30.00	PASS
	Ant2	2462	21.11	≤30.00	PASS
	total	2462	24.07	≤30.00	PASS
	Ant1	2412	21.54	≤30.00	PASS
	Ant2	2412	21.87	≤30.00	PASS
11n20MIMO	total	2412	24.72	≤30.00	PASS
	Ant1	2437	21.21	≤30.00	PASS
	Ant2	2437	22.21	≤30.00	PASS
	total	2437	24.75	≤30.00	PASS
	Ant1	2462	21.47	≤30.00	PASS
	Ant2	2462	22.23	≤30.00	PASS



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	total	2462	24.88	≤30.00	PASS
	Ant1	2422	17.50	≤30.00	PASS
	Ant2	2422	18.18	≤30.00	PASS
-	total	2422	20.86	≤30.00	PASS
	Ant1	2437	17.45	≤30.00	PASS
11n40MIMO	Ant2	2437	17.76	≤30.00	PASS
	total	2437	20.62	≤30.00	PASS
	Ant1	2452	17.43	≤30.00	PASS
	Ant2	2452	18.29	≤30.00	PASS
	total	2452	20.89	≤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
	Ant1	2412	-6.05	≤8.00	PASS
	Ant2	2412	-6.39	≤8.00	PASS
	Ant1	2437	-6.34	≤8.00	PASS
11b	Ant2	2437	-5.9	≤8.00	PASS
	Ant1	2462	-6.85	≤8.00	PASS
	Ant2	2462	-5.52	≤8.00	PASS
	Ant1	2422	-14.31	≤8.00	PASS
	Ant2	2422	-13.27	≤8.00	PASS
44, 400,000	Ant1	2437	-15.18	≤8.00	PASS
11n40SISO	Ant2	2437	-13.81	≤8.00	PASS
	Ant1	2452	-15	≤8.00	PASS
	Ant2	2452	-13.4	≤8.00	PASS
	Ant1	2412	-7.57	≤8.00	PASS
	Ant2	2412	-7.67	≤8.00	PASS
	total	2412	-4.61	≤8.00	PASS
	Ant1	2437	-7.48	≤8.00	PASS
11g-CDD	Ant2	2437	-7.99	≤8.00	PASS
	total	2437	-4.72	≤8.00	PASS
	Ant1	2462	-8.4	≤8.00	PASS
	Ant2	2462	-8.15	≤8.00	PASS
	total	2462	-5.26	≤8.00	PASS
	Ant1	2412	-8.21	≤8.00	PASS
	Ant2	2412	-7.73	≤8.00	PASS
	total	2412	-4.95	≤8.00	PASS
44-0014140	Ant1	2437	-9.11	≤8.00	PASS
11n20MIMO	Ant2	2437	-8.85	≤8.00	PASS
	total	2437	-5.97	≤8.00	PASS
	Ant1	2462	-8.9	≤8.00	PASS
	Ant2	2462	-8.52	≤8.00	PASS



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			Report No.: Rev.: Page:	SUHR/2021/ 02 68 of 216	/B001003
			i age.	00 01 2 10	
	total	2462	-5.70	≤8.00	PASS
	Ant1	2422	-16.06	≤8.00	PASS
	Ant2	2422	-14.45	≤8.00	PASS
	total	2422	-12.17	≤8.00	PASS
	Ant1	2437	-16.44	≤8.00	PASS
11n40MIMO	Ant2	2437	-14.36	≤8.00	PASS
	total	2437	-12.27	≤8.00	PASS
	Ant1	2452	-15.45	≤8.00	PASS
	Ant2	2452	-14.32	≤8.00	PASS
	total	2452	-11.84	≤8.00	PASS



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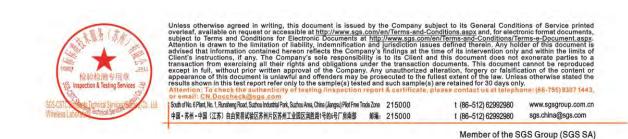
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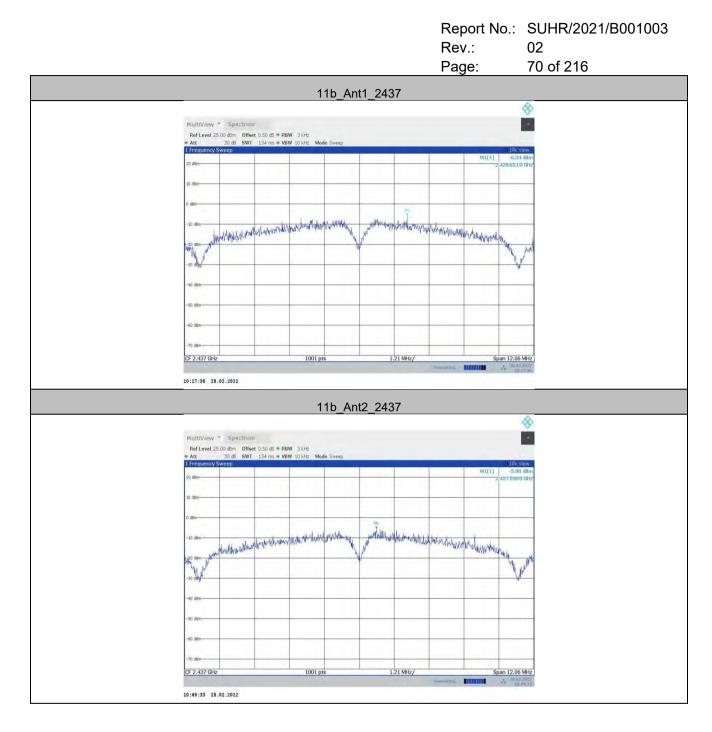
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11b Ant1 2412 \$. MultiView Spectru Ref Level 25.00 dBm Offset 0.50 dB = RBW 3 kHz Att 30 dB SWT 134 ms = VBW 10 kHz Mad 1121706 water all approximation of the property of the provident and the second and th CF 2.412 GH 1001 pts 1.21 MHz/ Span 12.06 MHz 10:15:54 28.02.2022 11b Ant2 2412 \$ MultiView . Spectrum Ref Level 25.00 dBm Offset 0.50 dB = RBW 3 kHz Att 30 dB SWT 134 ms = VBW 10 kHz Mode M1[1] atternation and the second of the second of the second and un Una marked and the second and the second and the 1001 pts .21 MHz/ Span 12.06 MHz CF 2.412 GH 10:46:27 28.02.2022

Test Graphs







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 Ref Level 25.00 dBm
 Offset 0.50 dB # RBW
 3 kHz

 Att
 30 dB
 SWT
 134 ms
 VBW 10 kHz
 Henry with which which a son and and the share the Mary Mark Minhow Charles 1.21 MHz/ CF 2.462 GHz 1001 pts Span 12.06 MHz 10:38:22 28.02.2022 11b Ant2 2462 \$ MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset 0.50 dB = RBW
 3 kHz

 Att
 30 dB
 SWT
 134 ms = VBW
 10 kHz
 Mode and a superior of the second and the second Nerthanstal and when the to obtain the willish , Span 12.06 MHz 1001 pts 1.21 MHz/ CF 2.462 GH 11:08:31 28.02.2022



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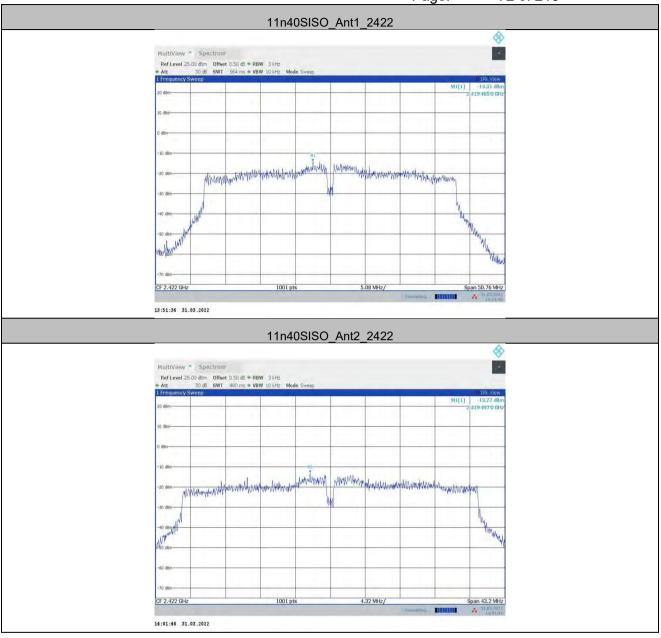
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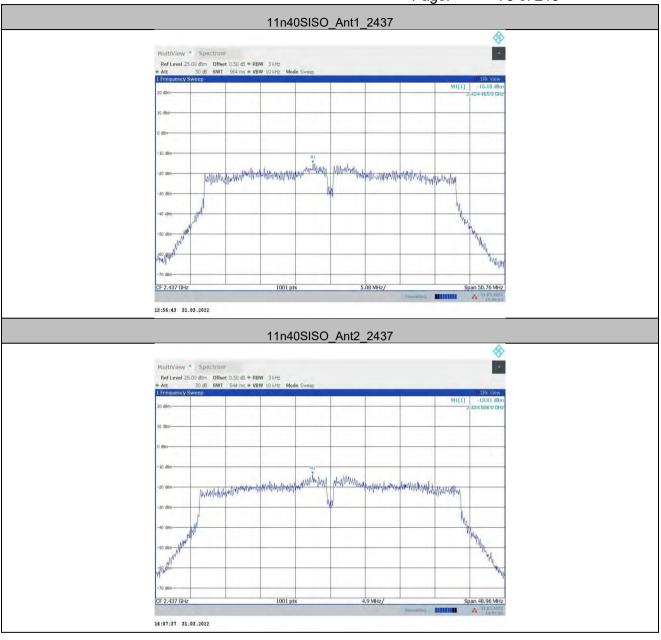




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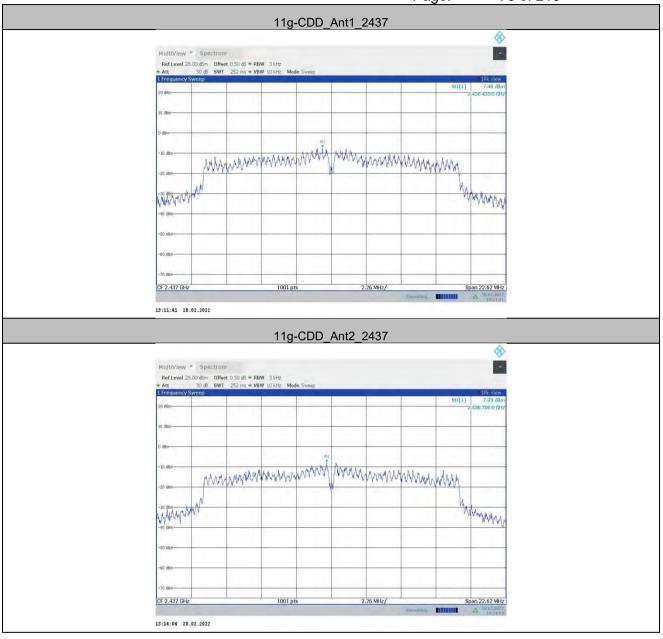
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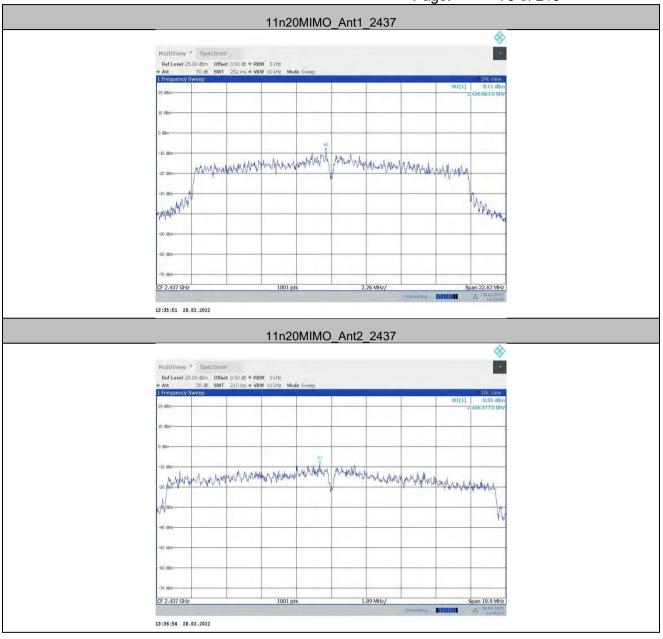
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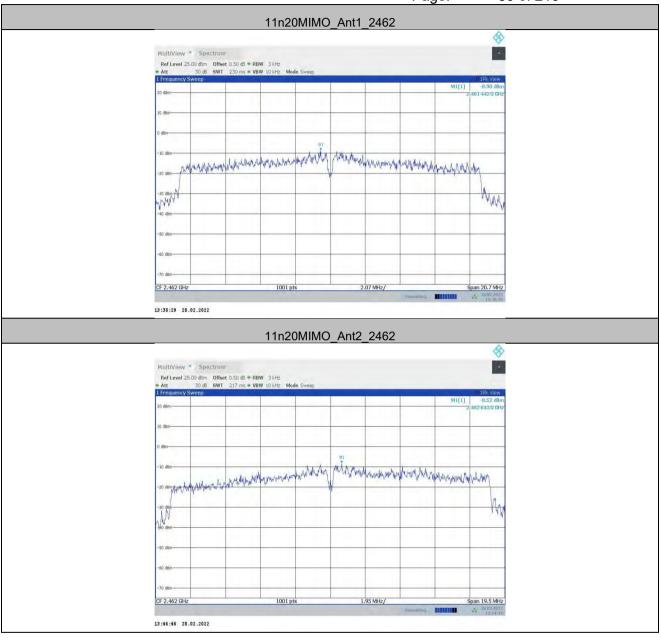
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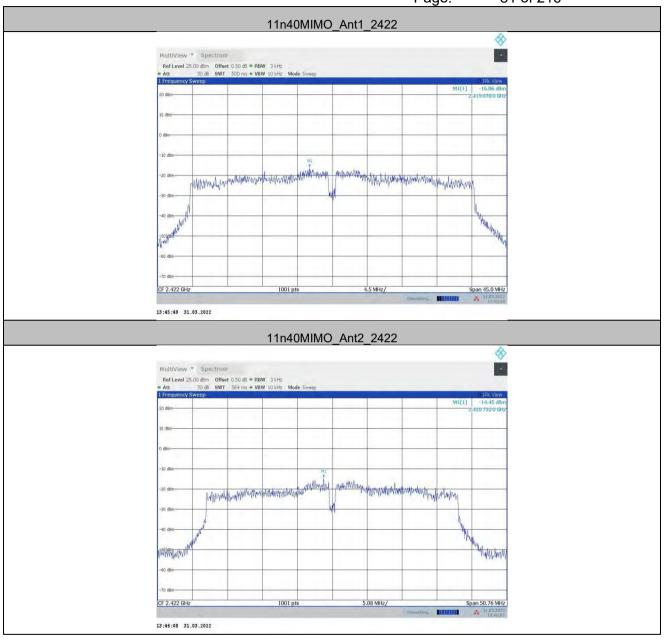




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 Ref Level 25.00 dBm
 Offset 0.50 dB # RBW
 3 kHz

 Att
 30 dB
 SWT
 523 ms
 VBW 10 kHz
 M1[1] produces with the second s parter and a second walkinght -se demi 14 4.7 MHz/ Span 47.04 MHz CF 2.437 GH 1001 pts 13:40:44 31.03.2022 11n40MIMO Ant2 2437 \$ MultiView . Spectrum
 Ref Level 25.00 dBm
 Offset 0.50 dB = RBW
 3 kHz

 Att
 30 dB
 SWT
 564 ms = VBW
 10 kHz
 Mode Winy and service with the service of where the second of the second s MAN . Mulunphan yakingh 1001 pts 5.08 MHz/ Span 50.76 MHz CF 2.437 GH 13:41:37 31.03.2022



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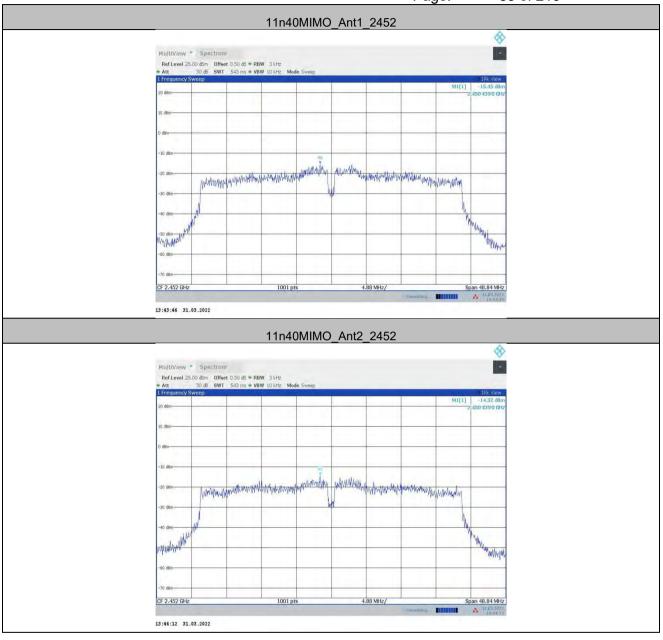
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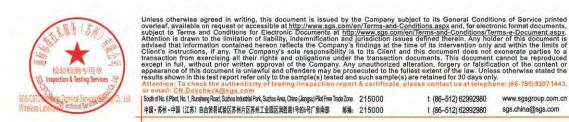
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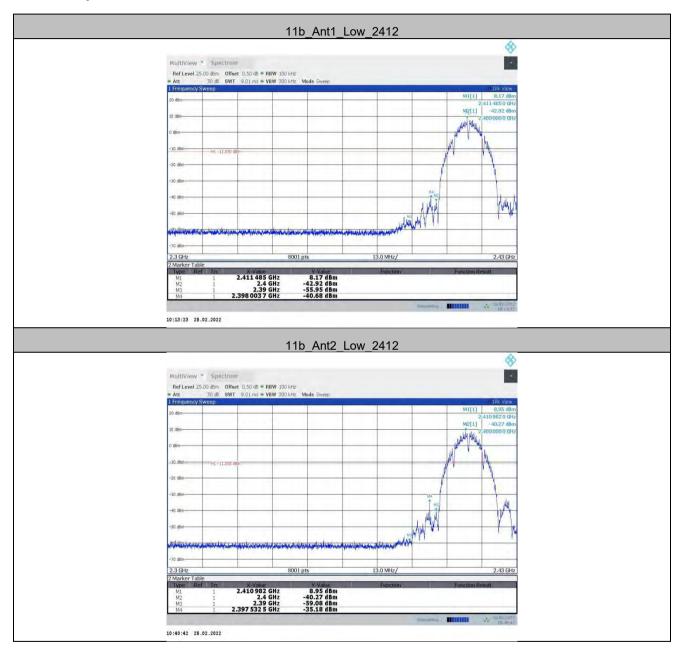
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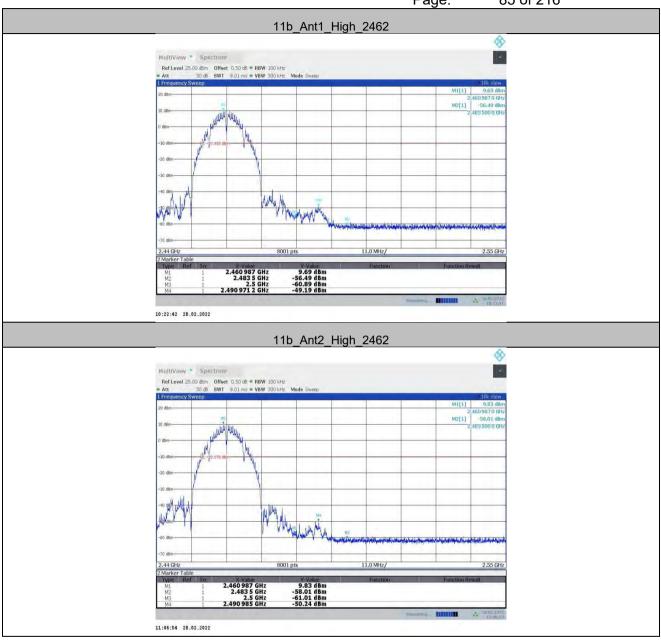
Band edge measurements

Test Graphs

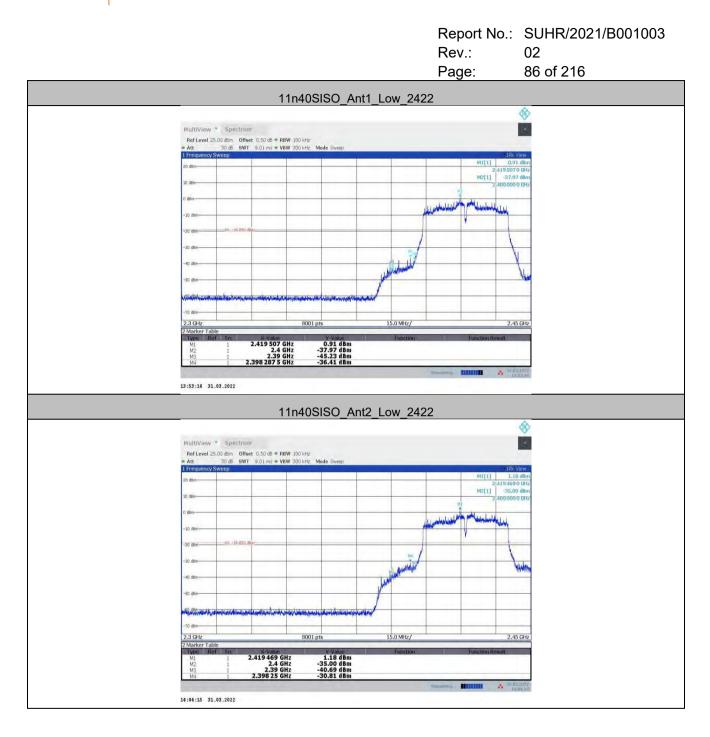




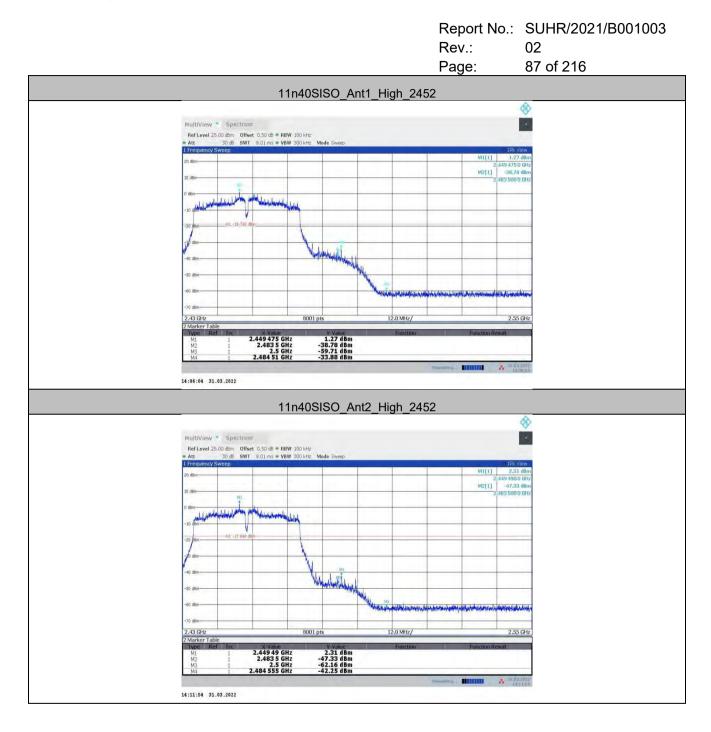
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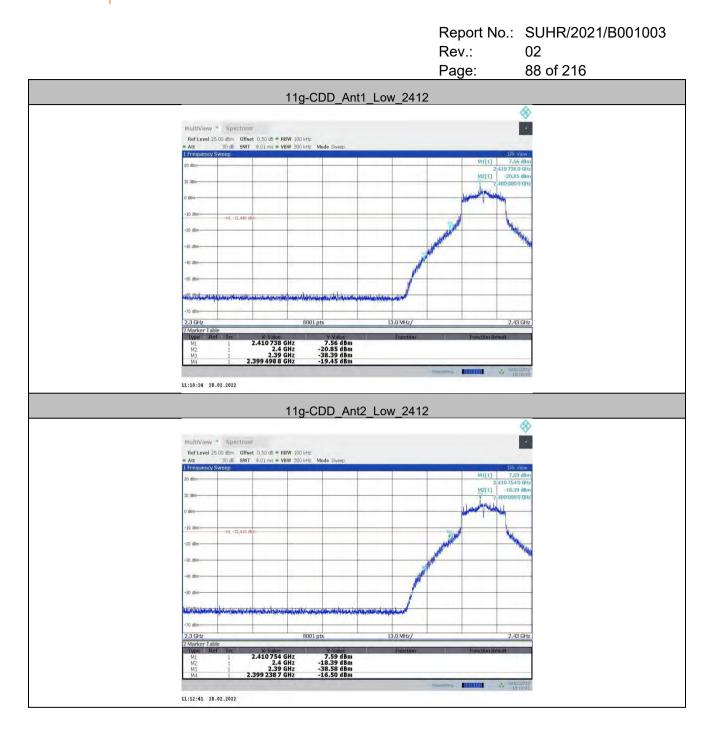




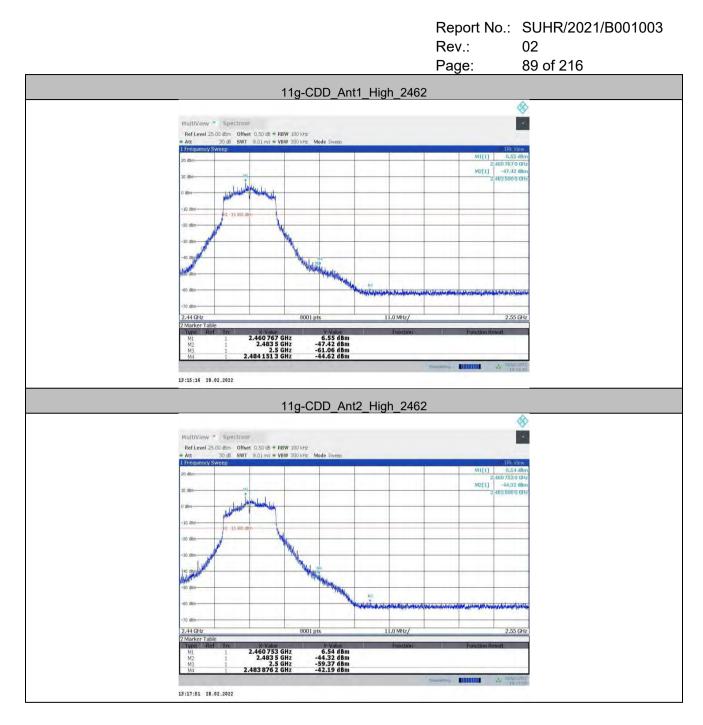


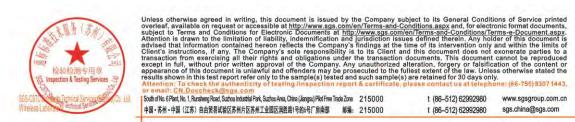


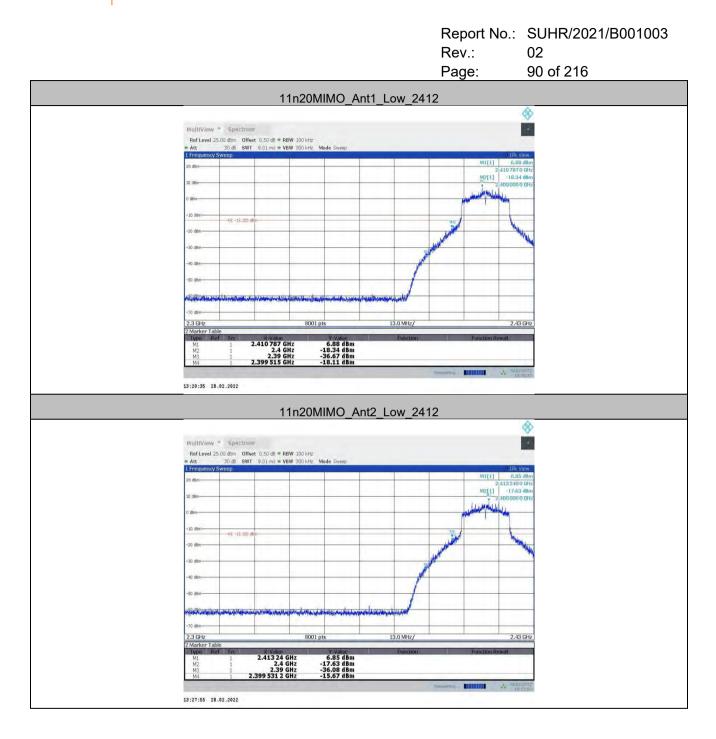




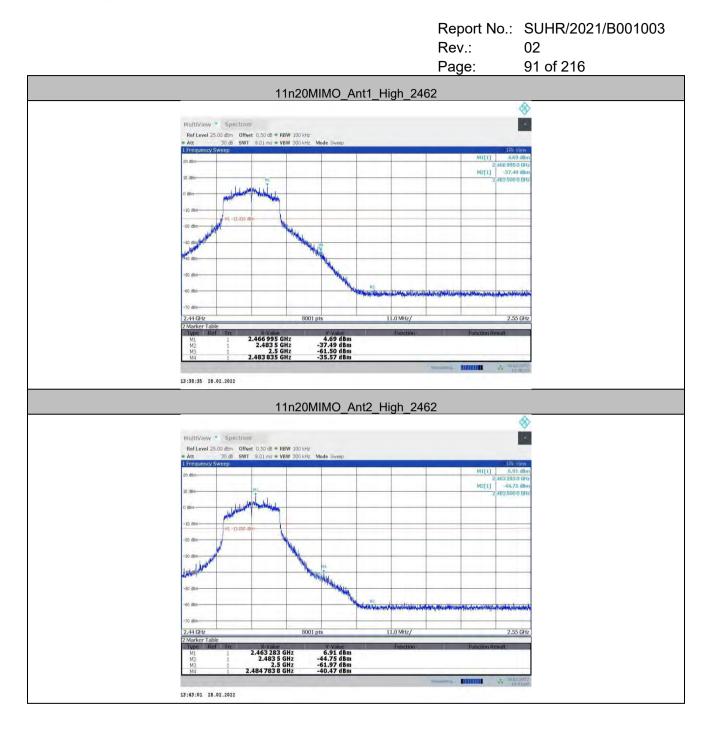








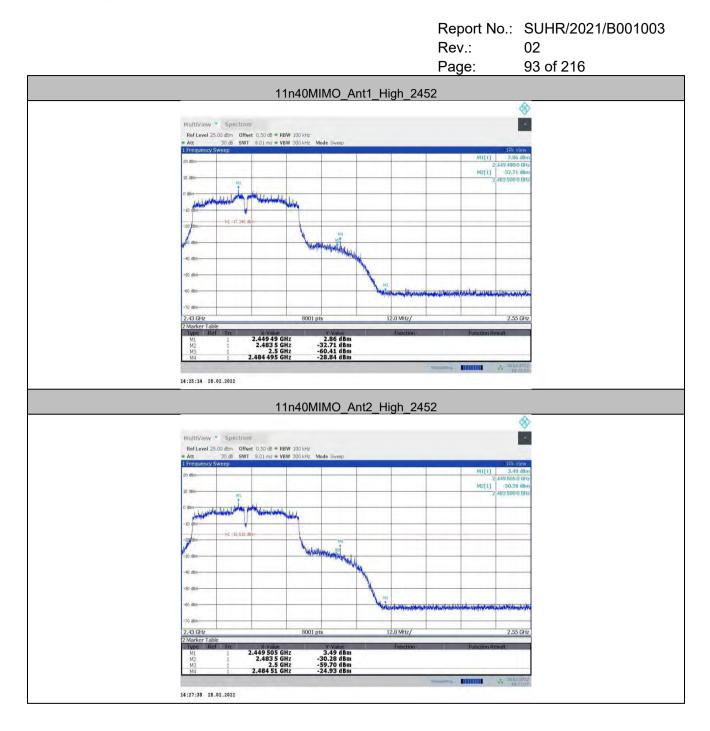












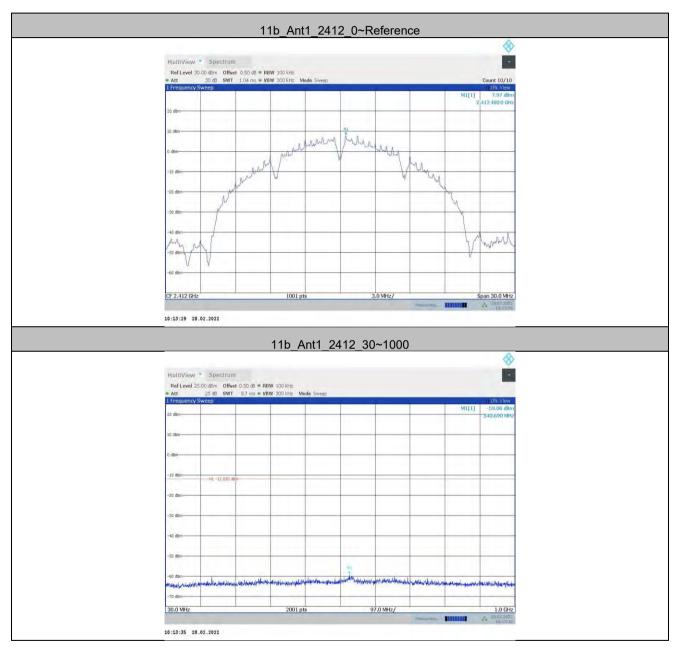


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Conducted Spurious Emission Test Graphs





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 Ref Level 25:00 dBm
 Offset 0.50 dB = RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms = VBW 300 kHz
 Made M2[1] -49.07 dE 2.55 GHz/ 1.0 GHz 52001 pts 26.5 GHz 10:13:56 28.02.2022 11b Ant2 2412 0~Reference \otimes MultiView . Spectrum
 RefLevel 30.00 dBm
 Offset
 0.50 dB
 RBW 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW 300 kHz
 Mode
 nt 10/10 1125 Julian mm Apl MAN M N M CF 2.412 GH 1001 pts .0 MHz/ pan 30.0 MHz 10:40:48 28.02.2022



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Report No.: SUHR/2021/B001003 Rev.: 02 Page: 96 of 216 11b Ant2 2412 30~1000 0 MultiView Spectrun -
 Ref Level
 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW
 300 kHz
 Made M which in marth al should get a some of sale and all of her than a sight photopolic proportions 10 sound and whitehold 97.0 MHz/ 30.0 MHz 2001 pts 1.0 GHz 10:40:54 28.02.2022 11b Ant2 2412 1000~26500 \otimes MultiView . Spectrum
 Ref Level
 25:00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 255 ms
 VBW
 300 kHz
 Mode M2[1] 7540 .647 933 0 10 .55 GHz/ 1.0 GHz 52001 pts 26.5 GHz 10:41:16 28.02.2022



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Report No.: SUHR/2021/B001003 Rev.: 02 Page: 97 of 216 11b Ant1 2437 0~Reference MultiView - Spectrur -
 RefLevel 30.00 dBm
 Offset
 0.50 dB
 RBW 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW 300 kHz
 unt 10/10 M1[1] 8.32 dB 981 0 G Maly MAN pala Mw MAN IM 11 V AMA pan 30.0 MHz CF 2.437 GHz 1001 pt 3.0 MHz/ 10:17:41 28.02.2022 11b Ant1 2437 30~1000 \otimes MultiView . Spectrum
 Ref Level
 25:00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW
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 Mode Mr. Harden H ative the ter all walked al printer بالمعولين ومردا والمراد Hiller 1.0 GHz 97.0 MHz/ 2001 pt 30.0 MHz 10:17:47 28.02.2022



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Report No.: SUHR/2021/B001003 Rev.: 02 Page: 98 of 216 11b Ant1 2437 1000~26500 0 MultiView - Spectrum -
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Report No.: SUHR/2021/B001003 Rev.: 02 99 of 216 Page: 11b Ant2 2437 30~1000 0 MultiView . Spectrun -
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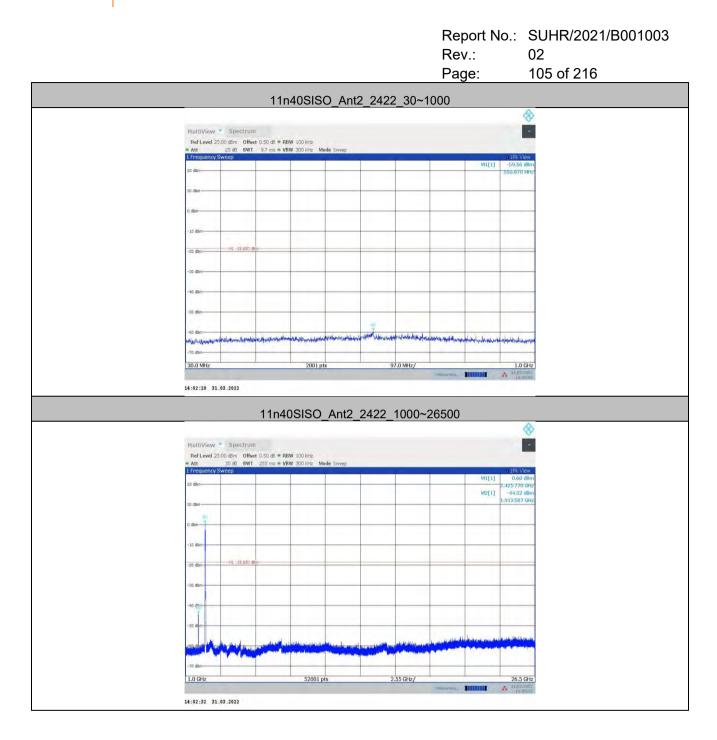
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Report No.: SUHR/2021/B001003 Rev.: 02 110 of 216 Page: 11n40SISO Ant1 2452 1000~26500 MultiView Spectrum -
 Ref Level 25:00 dBm
 Offset 0.50 dB = RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms = VBW 300 kHz
 Made -1.87 d -1.6, .449300 G -55.33 dE 3.664596 G M2[1] M2 1.0 GHz 52001 pts 2.55 GHz/ 26.5 GHz 13:59:35 31.03.2022 11n40SISO Ant2 2452 0~Reference \otimes MultiView . Spectrum
 Ref Level 30:00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.07 ms
 VBW 300 kHz
 Mode
 ant 10/10 11[1] 113 parantal manufacture and houstogardennesholast an alland MANUMANA 1001 pts 5.0 MHz/ Span 60.0 MHz CF 2.452 GH 14:11:59 31.03.2022



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Report No.: SUHR/2021/B001003 Rev.: 02 111 of 216 Page: 11n40SISO Ant2 2452 30~1000 0 MultiView . Spectru -
 Ref Level
 25.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW
 300 kHz
 Made H1 -17 81 with the with the state statistical states and a state of a participation of the state of the manumationer hadapha Antoniohilling Mala NAL HAL No balance 30.0 MHz 2001 pts 97.0 MHz/ 1.0 GHz 14:12:06 31.03.2022 11n40SISO Ant2 2452 1000~26500 \otimes MultiView . Spectrum
 Ref Level
 25:00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 255 ms
 VBW
 300 kHz
 Mode M2[1] 15 39 0 -17.81 .55 GHz/ 1.0 GHz 52001 pts 26.5 GHz 14:12:27 31.03.2022



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Report No.: SUHR/2021/B001003 Rev.: 02 112 of 216 Page: 11g-CDD Ant1 2412 0~Reference 0 MultiView Spectrum -
 Ref Level
 30.00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.04 ms
 VBW
 300 kHz
 Mode
 Count 10/10 6.51 dB 416 975 0 G whimper Mananhanny WINNI Anton MAMA Hanny Mannan Mi www 20 delant CF 2.412 GHz 1001 pt 3.0 MHz/ Span 30.0 MHz 11:10:29 28.02.2022 11g-CDD Ant1 2412 30~1000 \otimes MultiView . Spectrum
 Ref Level
 25:00 dBm
 Offset
 0.50 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW
 300 kHz
 Mode H1 13.490 whether with all waters have been been the strategy and the second s Manualan huluseppe 97.0 MHz/ 2001 pt 1.0 GHz 30.0 MHz 11:10:36 28.02.2022



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