

Report No.: SEWM2309000392RG02
Rev.: 01
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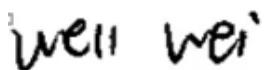
TEST REPORT

Application No.: SEWM2309000392RG
Applicant: Cloud Mobile Holdings, LLC
Address of Applicant: 1149 S Hill St, H-400 Los Angeles, CA 90015
Manufacturer: Shenzhen Along Electronic Co., Ltd.
Address of Manufacturer: No.35, Xinyuan Industrial Zone, Gushu Community, Xixiang Street, Bao 'an District, Shenzhen
EUT Description: MIFI
Model No.: Sky M2
Trade Mark: Cloud Mobile
FCC ID: 2AY6A-M2
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/05/19 (for original report SEWM2305000178RG02)
2023/09/27 (for new report SEWM2309000392RG02)
Date of Test: 2023/06/19 to 2023/07/07 (for original report SEWM2305000178RG02)
2023/10/10 to 2023/10/18 (for new report SEWM2309000392RG02)
Date of Issue: 2023/11/13

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

Authorized Signature:



Well Wei
Wireless Laboratory Manager



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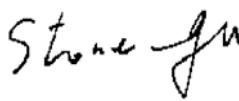
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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		2023/11/13		Original

Prepared By		(Ives Cheng) / Test Engineer
Checked By		(Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	ANSI C63.10-2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2013 Section 11.9.1.3	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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Remark for report SEWM2309000392RG02 issue on 2023/11/13:

This test report (Report No.: SEWM2309000392RG02 issue on 2023/11/13) is based on the original test report (Report No.: SEWM2305000178RG02 issue on 2023/07/14).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report AC Power Line Conducted Emission were tested, and the items of Power, Radiated Spurious emissions, Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWM2305000178RG02 issue on 2023/07/14 and other test data in this report are based on the previous report with report number SEWM2305000178RG02 issue on 2023/07/14.



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3 General Information

3.1 Details of Client

Applicant:	Cloud Mobile Holdings, LLC
Address of Applicant:	1149 S Hill St, H-400 Los Angeles, CA 90015
Manufacturer:	Shenzhen Along Electronic Co., Ltd.
Address of Manufacturer:	No.35, Xinyuan Industrial Zone, Gushu Community, Xixiang Street, Bao 'an District, Shenzhen

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:	Ives Cheng, King-p Li

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	MIFI	
Model No.:	Sky M2	
Trade Mark:	Cloud Mobile	
Hardware Version:	AL_M03_MB_V1.0_B	
Software Version:	Sky M2_v2.0.6	
IMEI:	RF Conducted	354366610103506
	RSE & AC power line	354366610103522
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
	0.88dBi(Ant9)	
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

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Operation Frequency of each channel (802.11b/g/n HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation 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

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8

Remark:
NV: Normal Voltage
NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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Wireless Laboratory

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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 Antenna and no consideration of replacement.	
The best case gain of the antenna is 0.88dBi(Ant9).*	
<i>*Note:</i>	<i>The antenna gain are derived from the gain information report provided by the manufacturer.</i>
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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
			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 logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2013 on conducted measurement. 		

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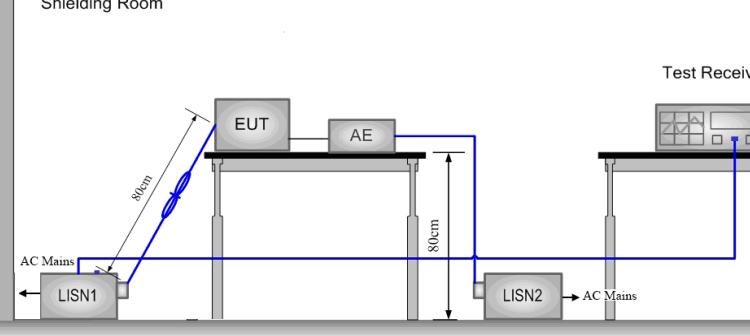


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Test Setup:	
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Refer to section 3.7 for details.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	<p>Refer to section 6 for details.</p>
Test Results:	<p>Pass</p>

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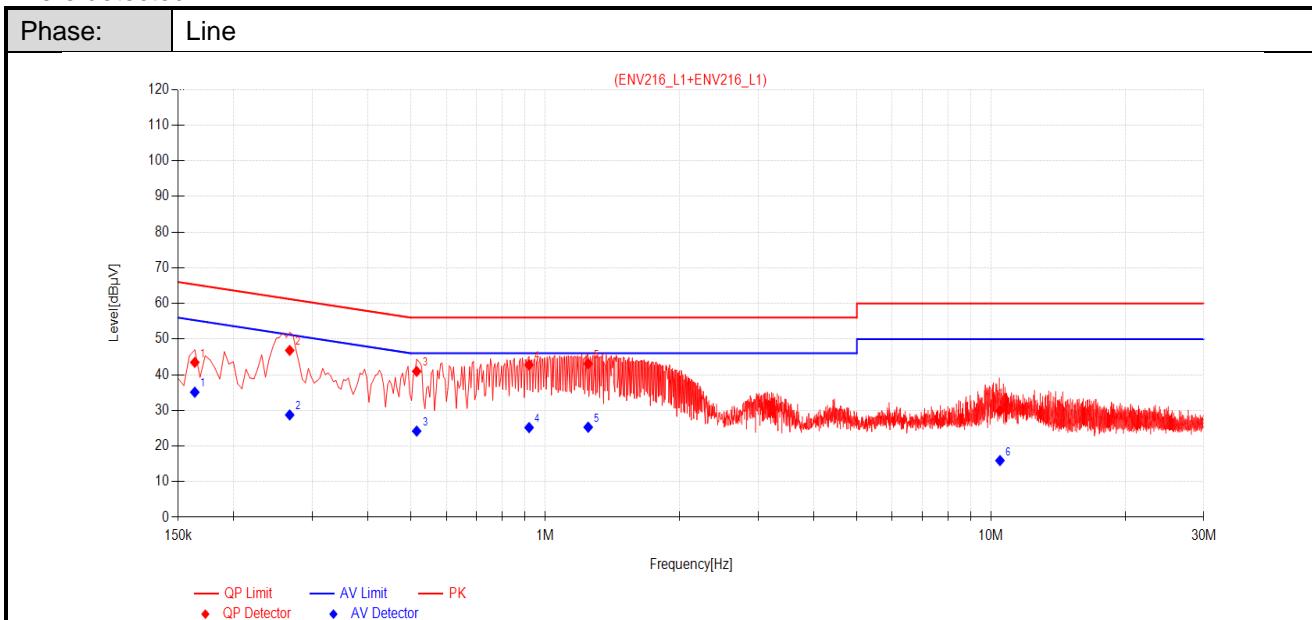
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1635	11.80	31.66	43.46	65.28	21.82	23.29	35.09	55.28	20.19	PASS
2	0.2670	11.64	35.18	46.82	61.21	14.39	17.07	28.71	51.21	22.50	PASS
3	0.5145	11.61	29.33	40.94	56.00	15.06	12.57	24.18	46.00	21.82	PASS
4	0.9195	11.71	31.05	42.76	56.00	13.24	13.45	25.16	46.00	20.84	PASS
5	1.2480	11.73	31.34	43.07	56.00	12.93	13.55	25.28	46.00	20.72	PASS
6	10.4730	11.88	18.03	29.91	60.00	30.09	4.04	15.92	50.00	34.08	PASS

Remark:

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

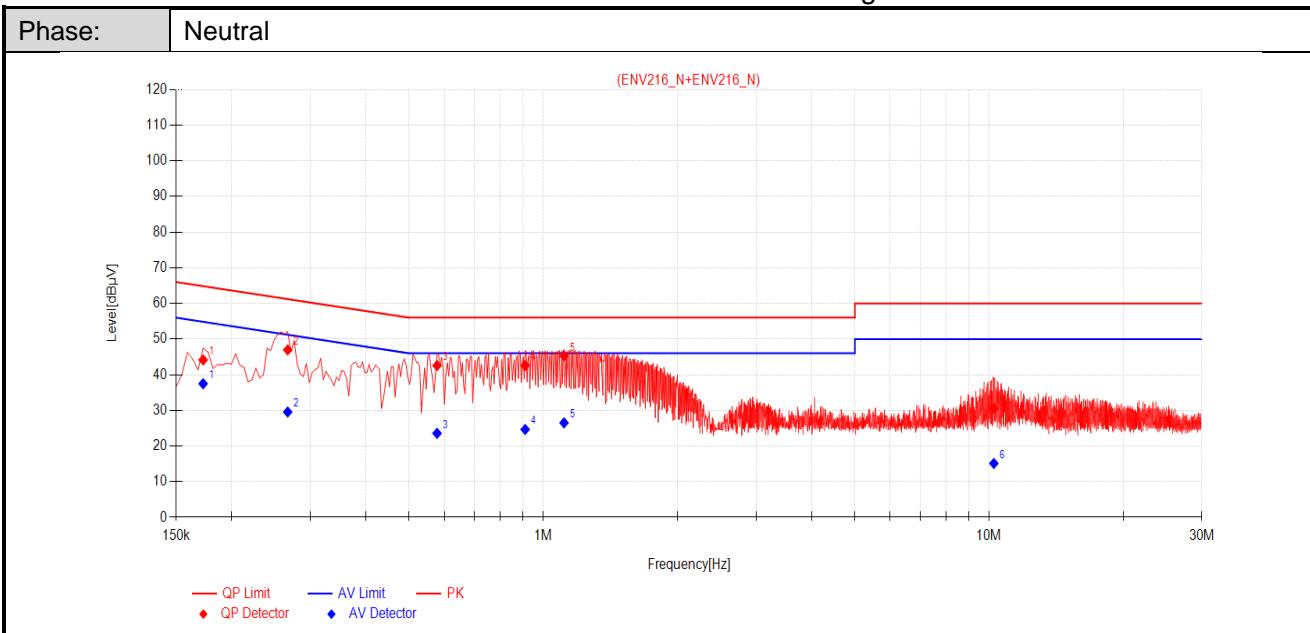
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Data List												
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dB μ V]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Reading [dB μ V]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict	
1	0.1725	11.75	32.40	44.15	64.84	20.69	25.73	37.48	54.84	17.36	PASS	
2	0.2670	11.64	35.34	46.98	61.21	14.23	17.91	29.55	51.21	21.66	PASS	
3	0.5775	11.62	30.95	42.57	56.00	13.43	11.94	23.56	46.00	22.44	PASS	
4	0.9105	11.71	30.88	42.59	56.00	13.41	12.94	24.65	46.00	21.35	PASS	
5	1.1130	11.72	33.54	45.26	56.00	10.74	14.78	26.50	46.00	19.50	PASS	
6	10.2525	11.88	18.65	30.53	60.00	29.47	3.24	15.12	50.00	34.88	PASS	

Remark:

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



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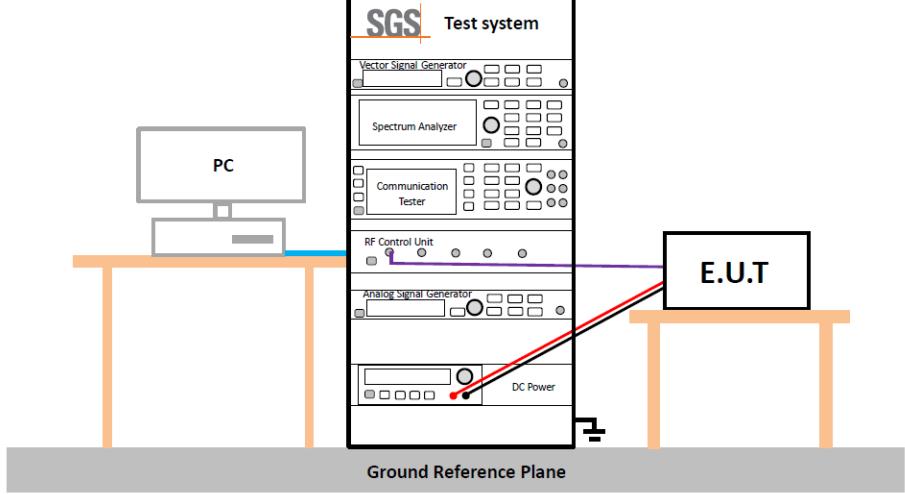
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4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2013 Section 11.6
Test Method:	ANSI C63.10-2013 Section 11.6
Test Setup:	
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:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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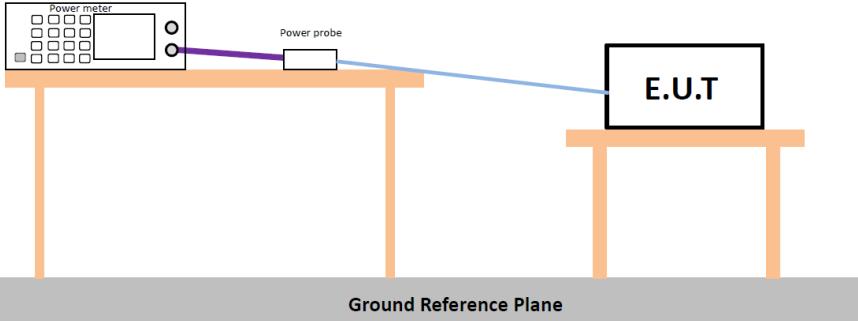
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2013 Section 11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
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: Appendix	



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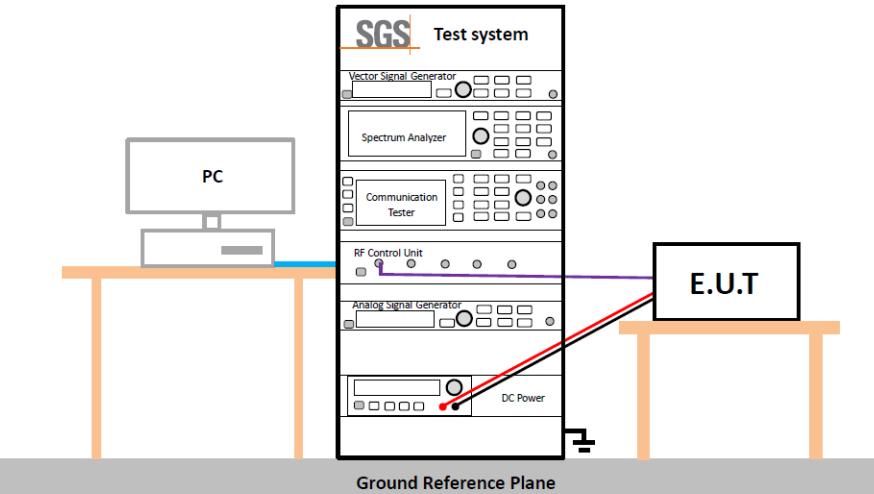
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	

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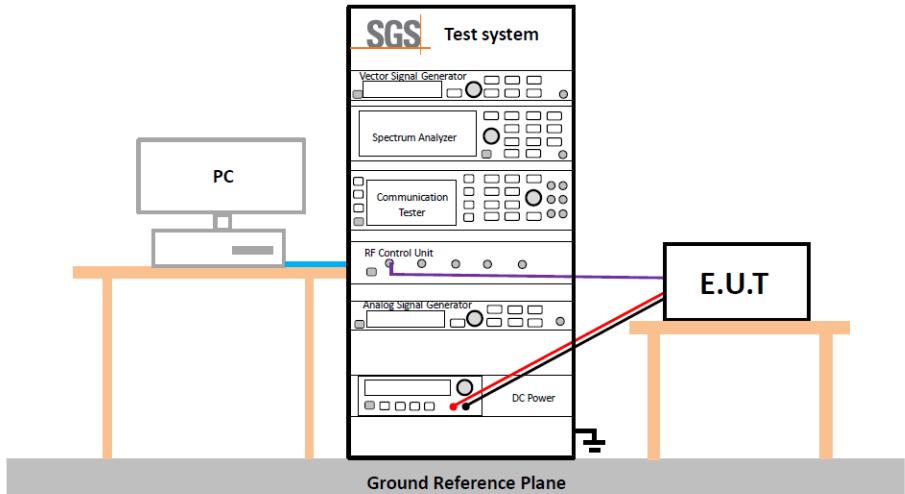
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2013 Section 11.10.2
Test Setup:	
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:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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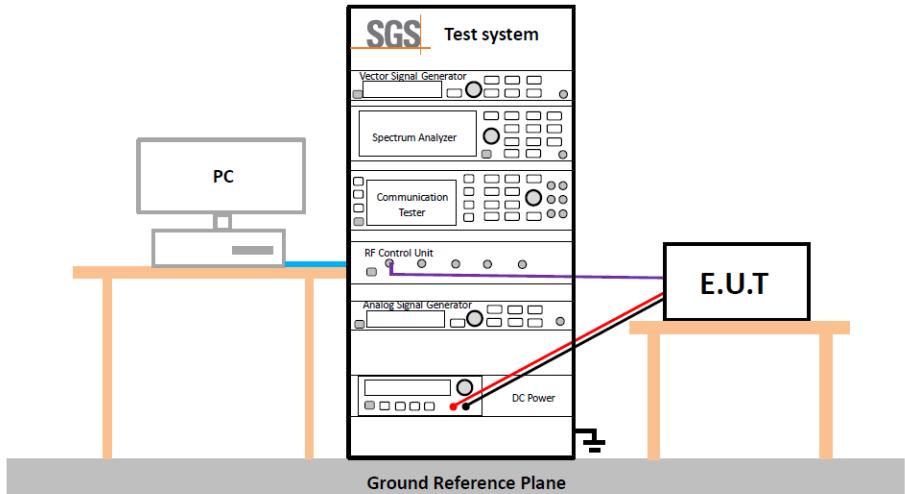
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2013 Section 11.11
Test Setup:	
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	



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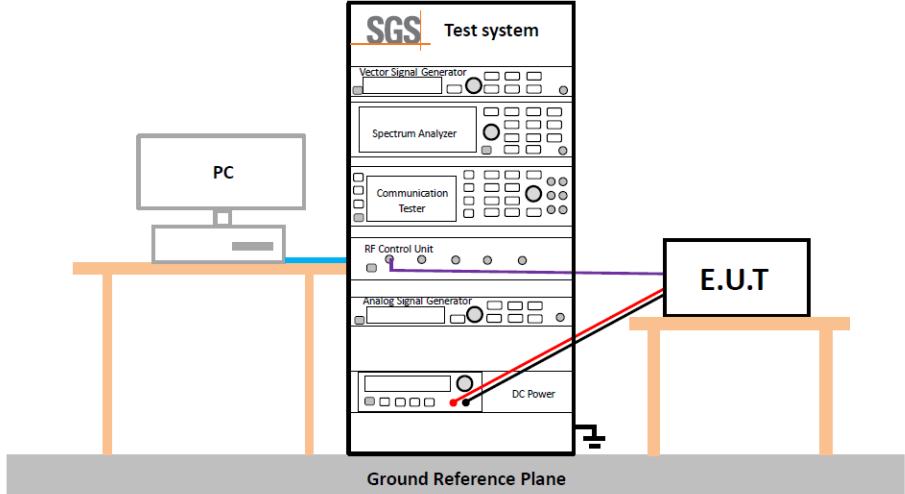
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2013 Section 11.11
Test Setup:	
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	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

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Test Setup:

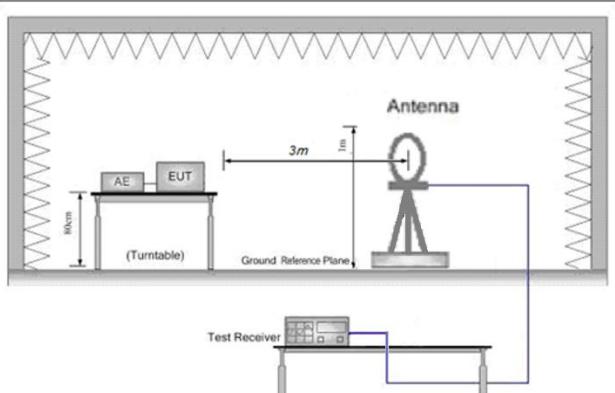


Figure 1. Below 30MHz

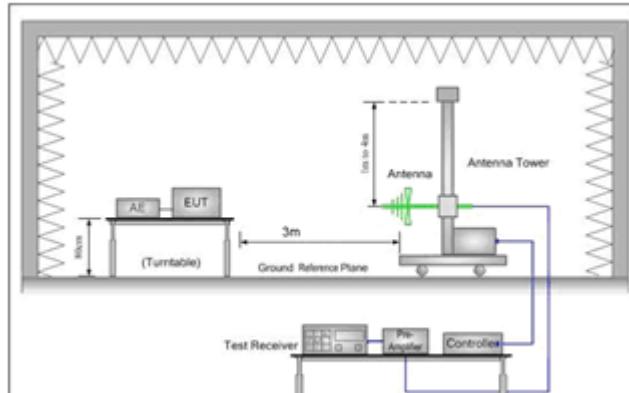


Figure 2. 30MHz to 1GHz

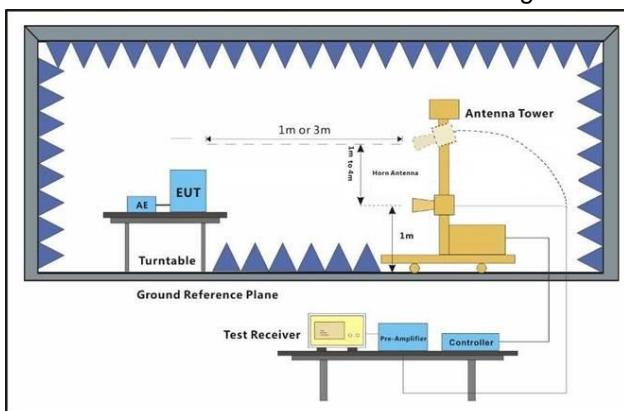


Figure 3. Above 1 GHz

Test Procedure:

- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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.
- 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the



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	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>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</p> <p>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.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \times \log(3/1) = 9.54$ dB.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

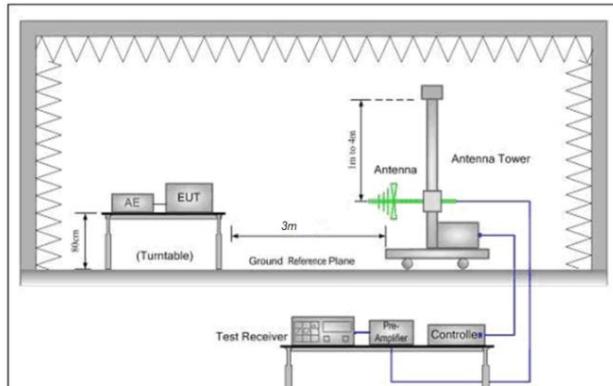


Figure 1. 30MHz to 1GHz

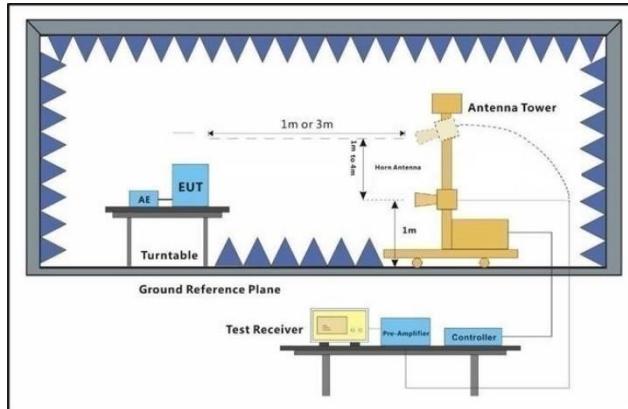


Figure 2. Above 1 GHz

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Test Procedure:	<ol style="list-style-type: none">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 chamber. 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 chamber. 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 channelh. Test the EUT in the lowest channel , the Highest channeli. 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:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Quasi-peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.



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Test Results:	Pass
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The detailed test data see: **Appendix**

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

For report SEWM2305000178RG02 & SEWM2309000392RG02

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)

For report SEWM2305000178RG02

No.	Item	Measurement Uncertainty
1	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

For report SEWM2309000392RG02

No.	Item	Measurement Uncertainty
1	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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6 Equipment List

RF Test Equipment (for report SEWM2305000178RG02 & SEWM2309000392RG02)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05

CE Test System (for report SEWM2305000178RG02 & SEWM2309000392RG02)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR

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RSE Test System (for report SEWM2305000178RG02)

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2022/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR

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RSE Test System (for report SEWM2309000392RG02)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-RE 4.0.0.0	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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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant9	2412	7.64	2407.92	2415.56	≥0.5	PASS
11b	Ant9	2437	8.12	2433.44	2441.56	≥0.5	PASS
11b	Ant9	2462	8.16	2457.40	2465.56	≥0.5	PASS
11g	Ant9	2412	15.16	2404.36	2419.52	≥0.5	PASS
11g	Ant9	2437	14.52	2430.64	2445.16	≥0.5	PASS
11g	Ant9	2462	16.40	2453.16	2469.56	≥0.5	PASS
11n20SISO	Ant9	2412	14.64	2405.28	2419.92	≥0.5	PASS
11n20SISO	Ant9	2437	16.40	2429.40	2445.80	≥0.5	PASS
11n20SISO	Ant9	2462	16.40	2453.16	2469.56	≥0.5	PASS
11n40SISO	Ant9	2422	35.28	2404.32	2439.60	≥0.5	PASS
11n40SISO	Ant9	2437	29.04	2425.56	2454.60	≥0.5	PASS
11n40SISO	Ant9	2452	27.68	2436.88	2464.56	≥0.5	PASS



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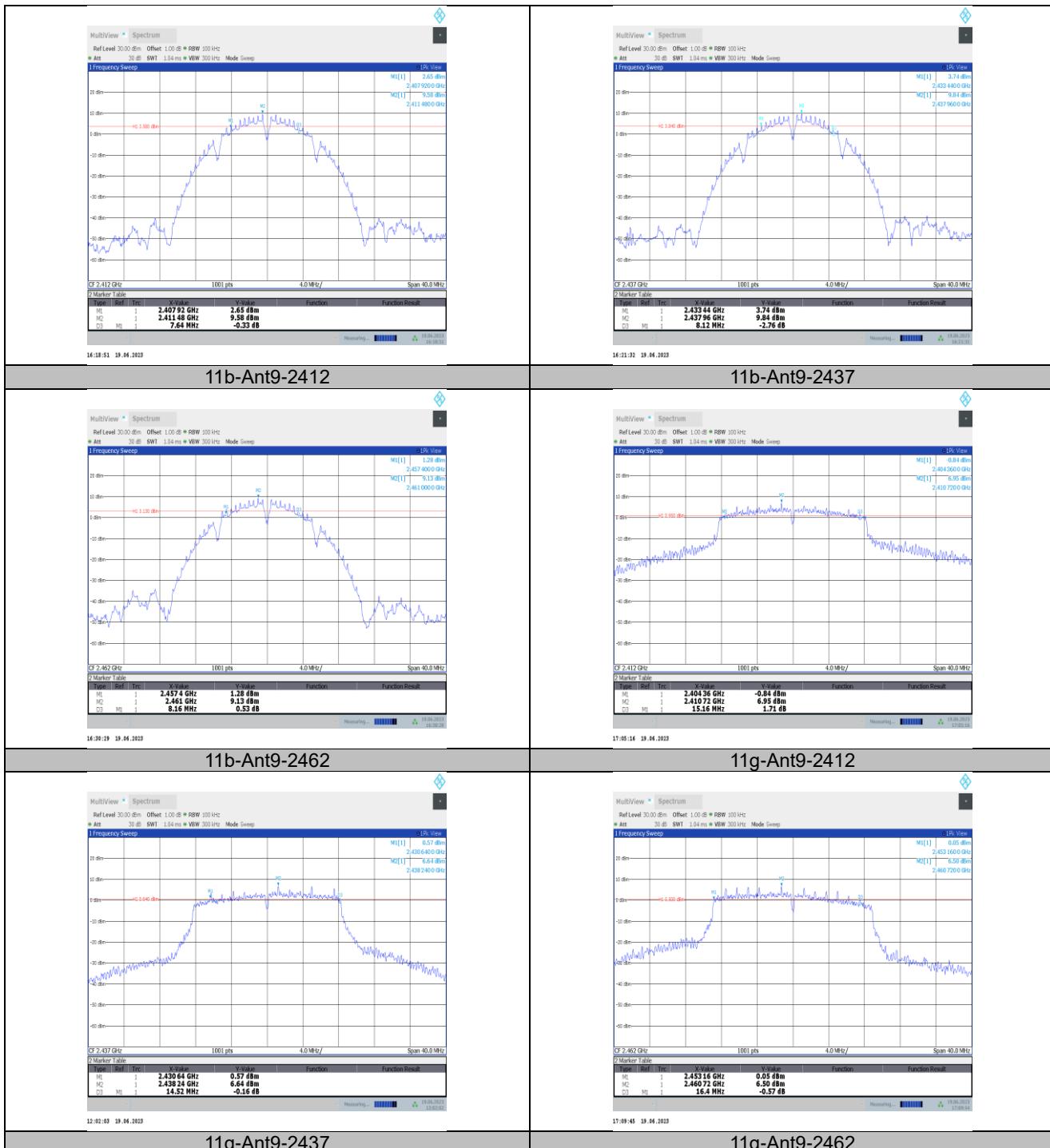
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Test Graphs



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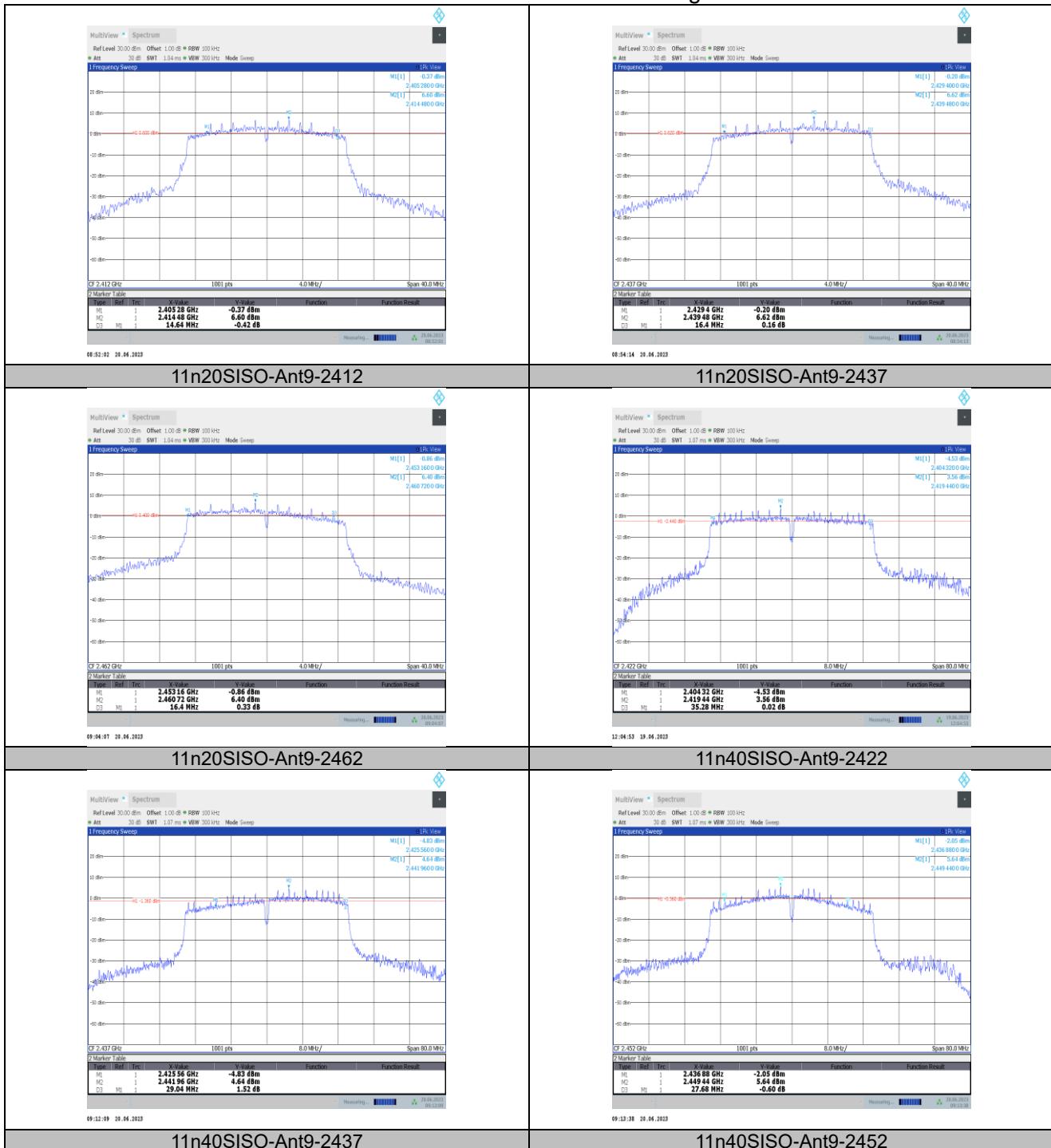
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant9	2412	12.855	2405.5084	2418.3635	For Report Purpose
11b	Ant9	2437	12.831	2430.7682	2443.5996	
11b	Ant9	2462	13.226	2455.0587	2468.2846	
11g	Ant9	2412	21.46	2402.4178	2423.8780	
11g	Ant9	2437	17.128	2428.5756	2445.7032	
11g	Ant9	2462	18.212	2452.5576	2470.7693	
11n20SISO	Ant9	2412	17.878	2403.0526	2420.9309	
11n20SISO	Ant9	2437	18.011	2428.1605	2446.1711	
11n20SISO	Ant9	2462	18.122	2452.6618	2470.7840	
11n40SISO	Ant9	2422	37.019	2403.6227	2440.6418	
11n40SISO	Ant9	2437	36.363	2419.0932	2455.4558	
11n40SISO	Ant9	2452	35.807	2434.0171	2469.8239	

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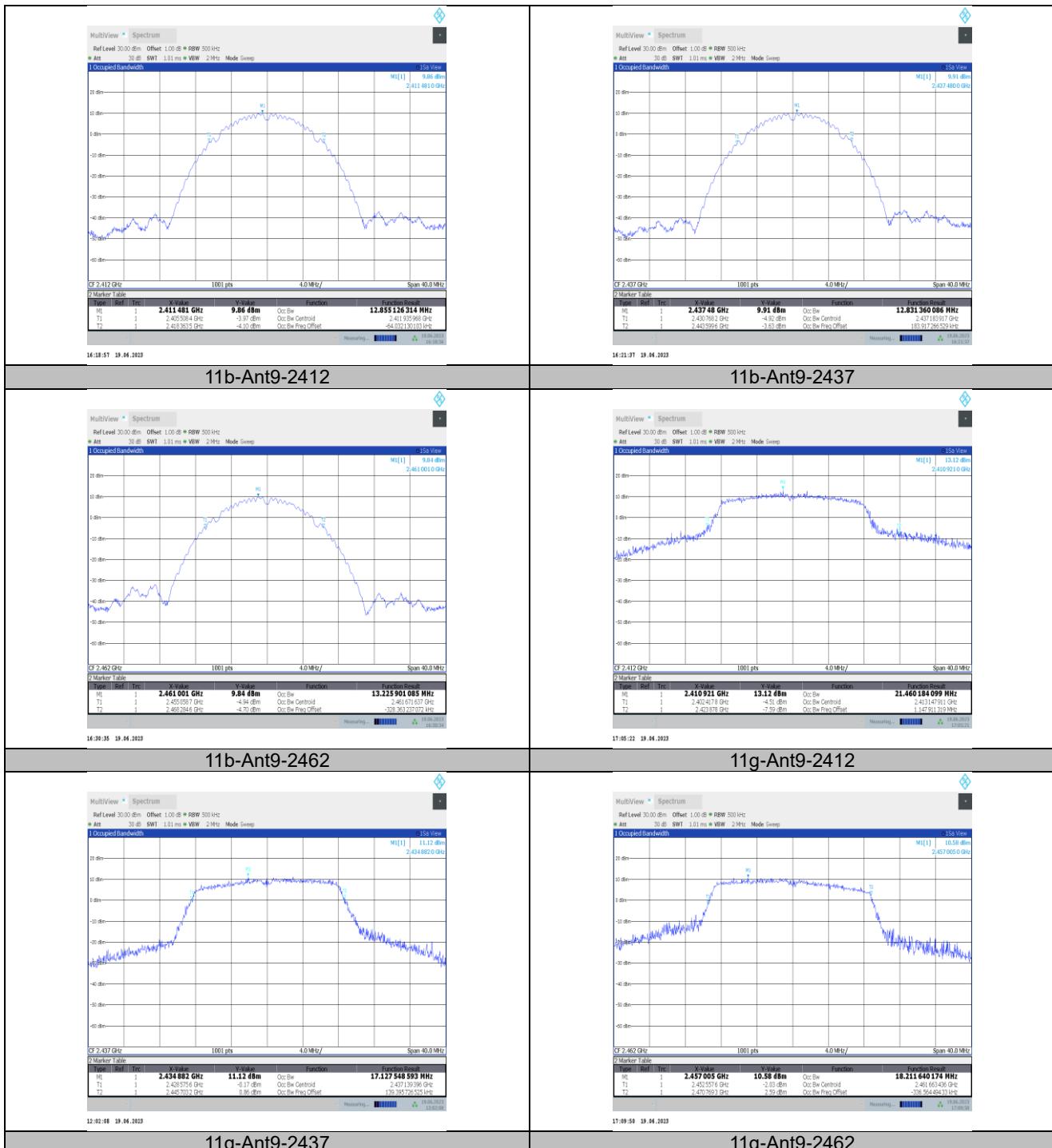
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Test Graphs

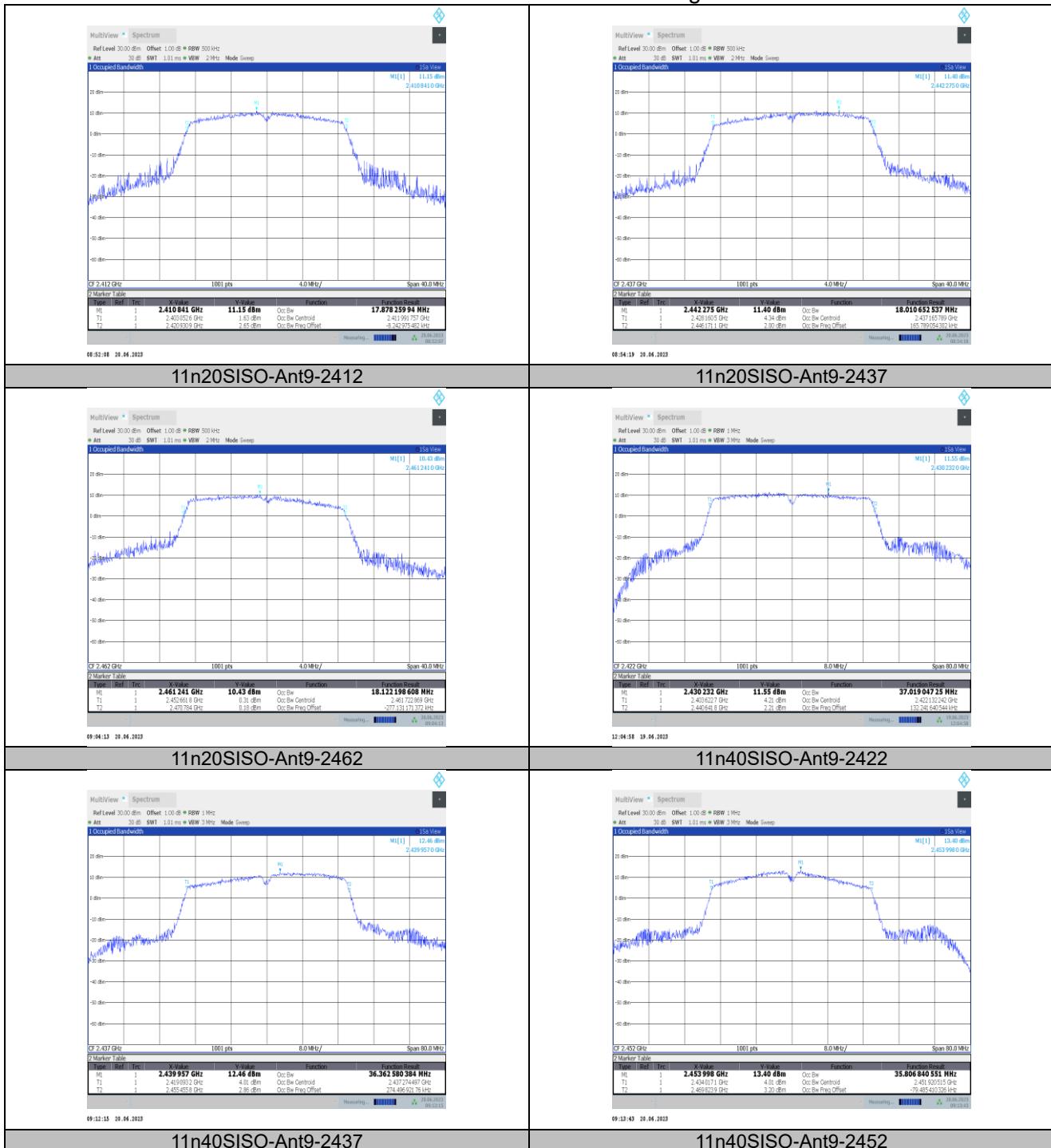


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Maximum conducted output power for SEWM2305000178RG02**Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant9	2412	19.49	≤30.00	PASS
11b	Ant9	2437	19.68	≤30.00	PASS
11b	Ant9	2462	19.56	≤30.00	PASS
11g	Ant9	2412	22.13	≤30.00	PASS
11g	Ant9	2437	22.26	≤30.00	PASS
11g	Ant9	2462	22.37	≤30.00	PASS
11n20SISO	Ant9	2412	22.23	≤30.00	PASS
11n20SISO	Ant9	2437	22.34	≤30.00	PASS
11n20SISO	Ant9	2462	22.39	≤30.00	PASS
11n40SISO	Ant9	2422	21.79	≤30.00	PASS
11n40SISO	Ant9	2437	21.22	≤30.00	PASS
11n40SISO	Ant9	2452	21.38	≤30.00	PASS

Maximum conducted output power for SEWM2309000392RG02**Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant9	2437	19.08	≤30.00	PASS
11g	Ant9	2462	21.72	≤30.00	PASS
11n20SISO	Ant9	2462	21.37	≤30.00	PASS
11n40SISO	Ant9	2422	20.74	≤30.00	PASS

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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant9	2412	-4.01	≤8.00	PASS
11b	Ant9	2437	-3.65	≤8.00	PASS
11b	Ant9	2462	-4.71	≤8.00	PASS
11g	Ant9	2412	-6.21	≤8.00	PASS
11g	Ant9	2437	-7.68	≤8.00	PASS
11g	Ant9	2462	-7.05	≤8.00	PASS
11n20SISO	Ant9	2412	-7.36	≤8.00	PASS
11n20SISO	Ant9	2437	-7.21	≤8.00	PASS
11n20SISO	Ant9	2462	-7.59	≤8.00	PASS
11n40SISO	Ant9	2422	-14.39	≤8.00	PASS
11n40SISO	Ant9	2437	-14.03	≤8.00	PASS
11n40SISO	Ant9	2452	-13.24	≤8.00	PASS

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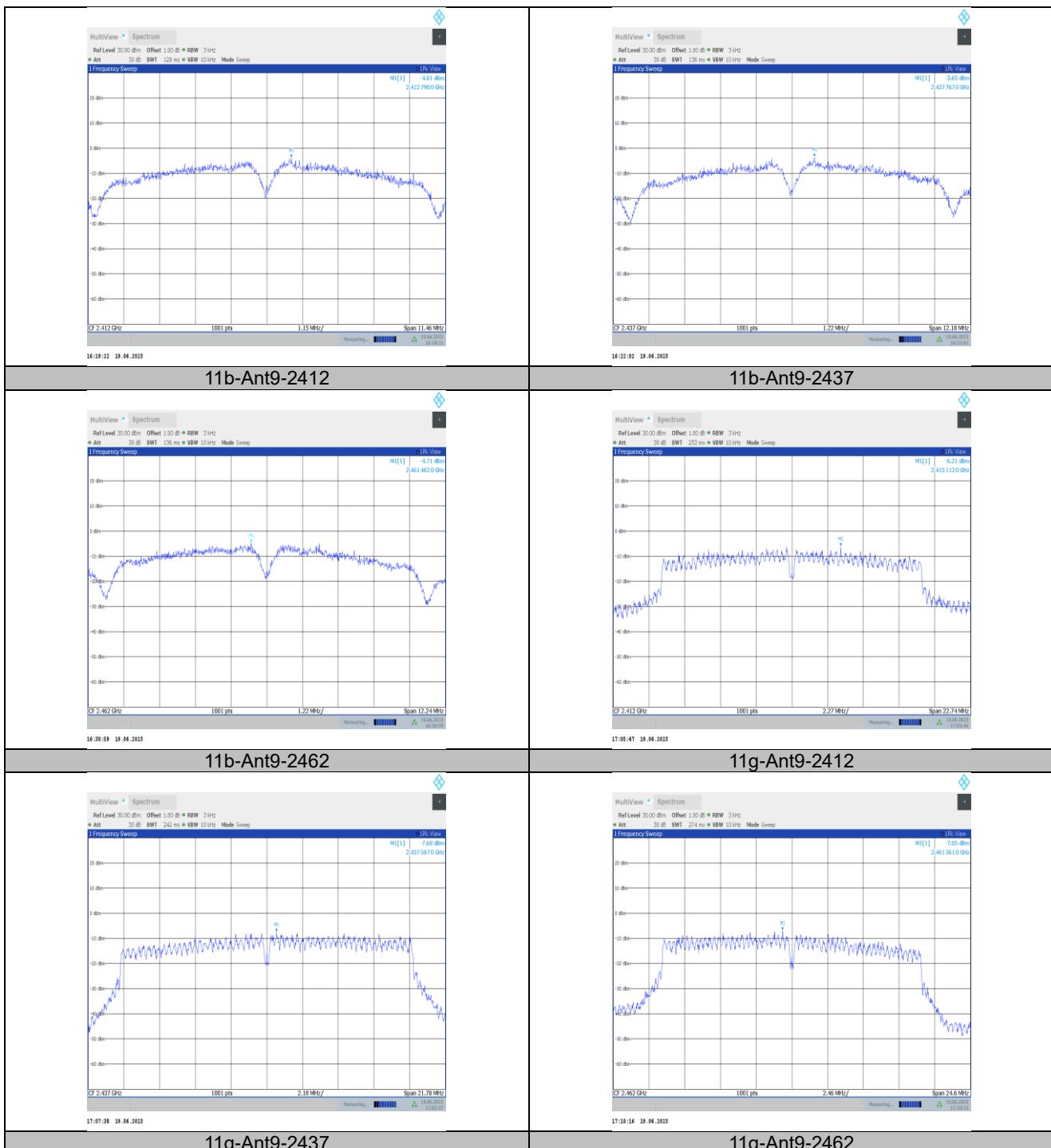
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Test Graphs



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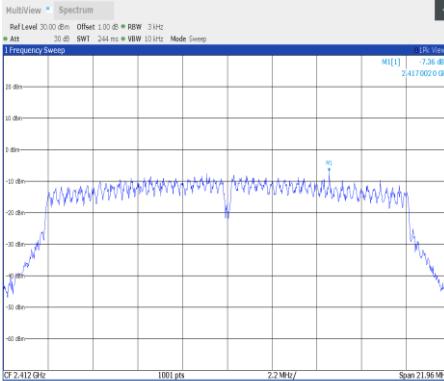
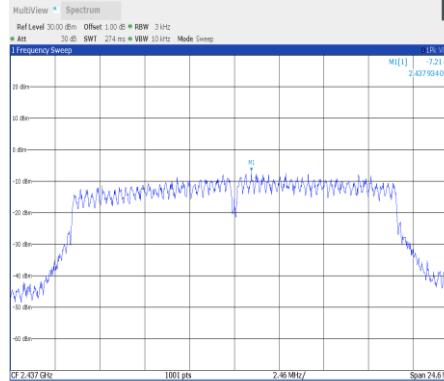
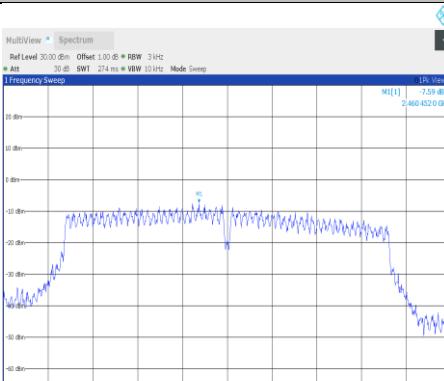
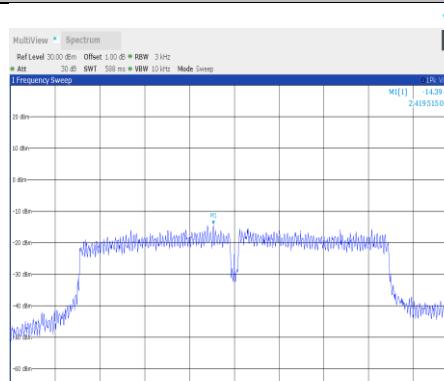
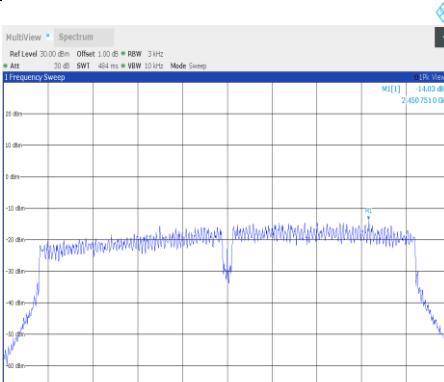
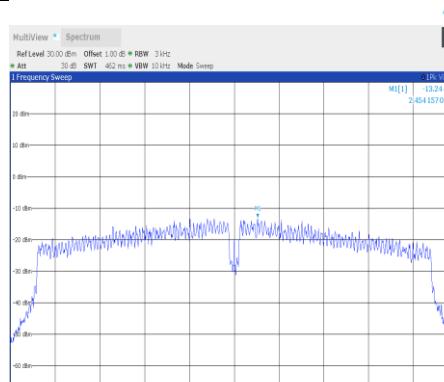
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 <p>08:51:32 28.04.2023</p>	 <p>08:54:44 28.04.2023</p>
<p>11n20SISO-Ant9-2412</p>  <p>09:04:39 28.04.2023</p>	<p>11n20SISO-Ant9-2437</p>  <p>13:42:03 01.05.2023</p>
<p>11n20SISO-Ant9-2462</p>  <p>13:45:18 03.05.2023</p>	<p>11n40SISO-Ant9-2422</p>  <p>13:45:44 03.05.2023</p>
<p>11n40SISO-Ant9-2437</p>	<p>11n40SISO-Ant9-2452</p>

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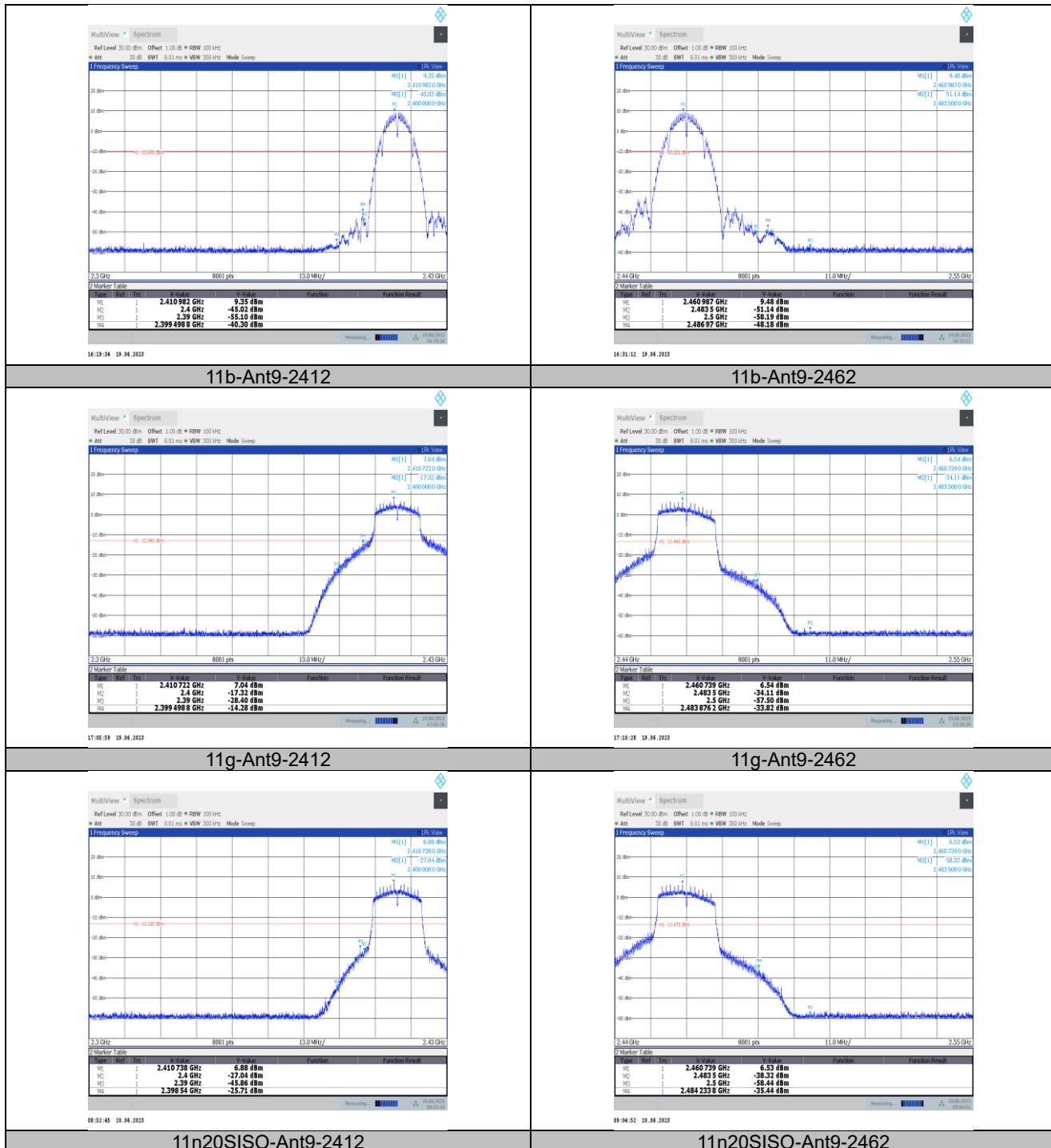
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Band edge measurements

Test Graphs



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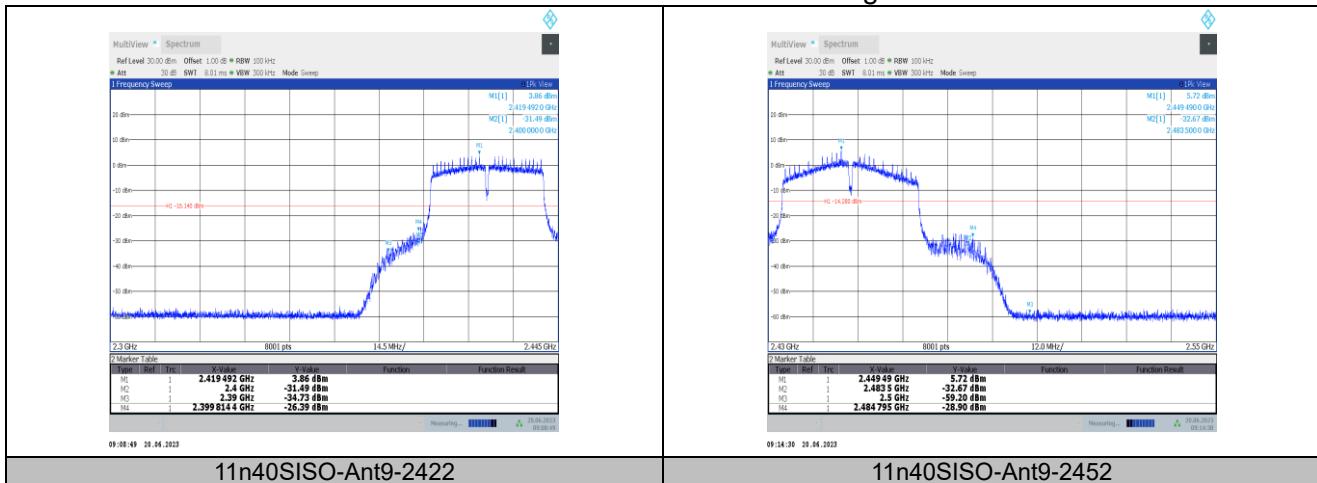


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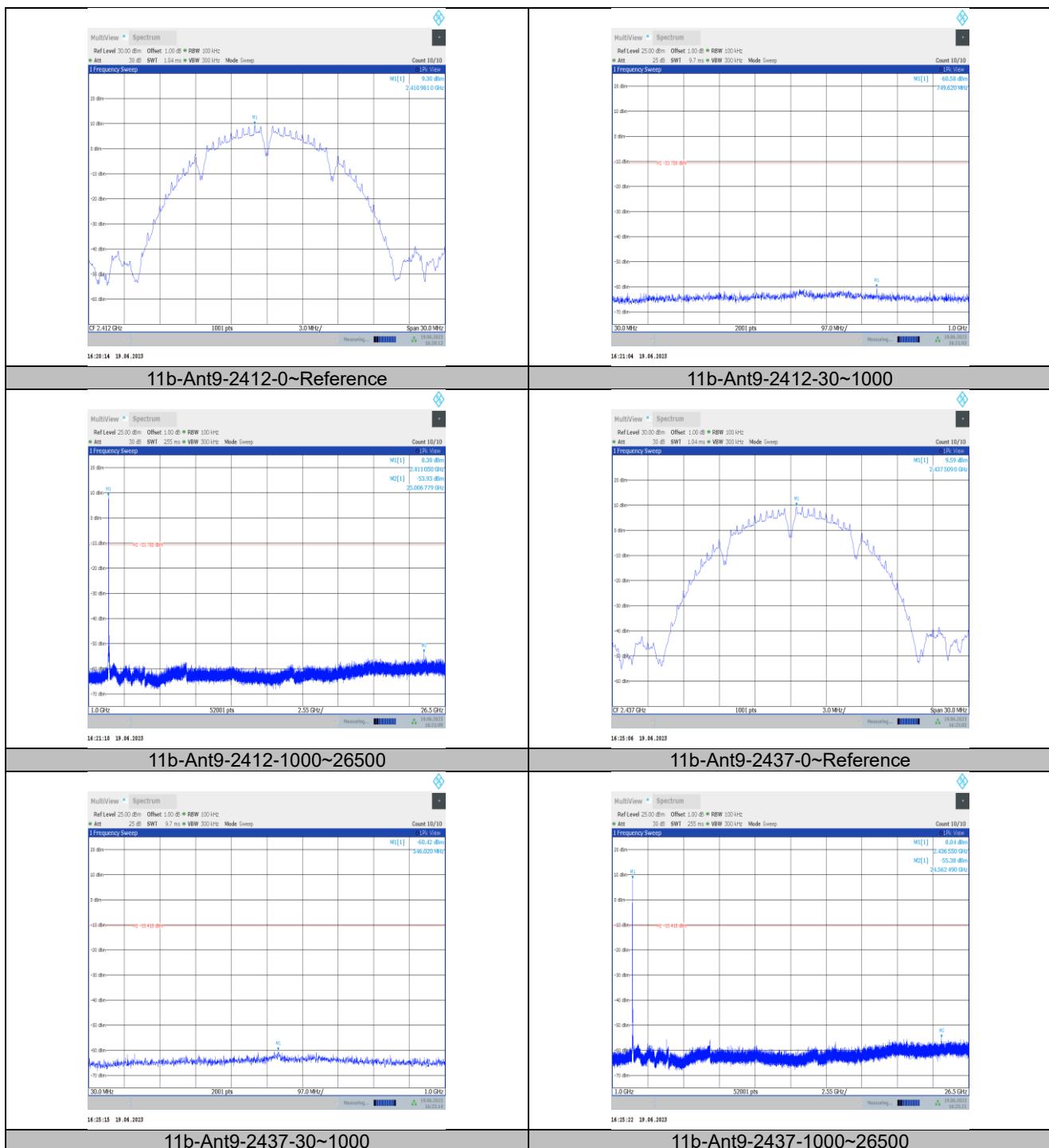
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Conducted Spurious Emission Test Graphs



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<p>11b-Ant9-2462-0~Reference</p>	<p>11b-Ant9-2462-30~1000</p>
<p>11b-Ant9-2462-1000~26500</p>	<p>11g-Ant9-2412-0~Reference</p>
<p>11g-Ant9-2412-30~1000</p>	<p>11g-Ant9-2412-1000~26500</p>

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<p>11g-Ant9-2437-0~Reference</p>	<p>11g-Ant9-2437-30~1000</p>
<p>11g-Ant9-2437-1000~26500</p>	<p>11g-Ant9-2462-0~Reference</p>
<p>11g-Ant9-2462-30~1000</p>	<p>11g-Ant9-2462-1000~26500</p>

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<p>11n20SISO-Ant9-2412-0~Reference</p>	<p>11n20SISO-Ant9-2412-30~1000</p>
<p>11n20SISO-Ant9-2412-1000~26500</p>	<p>11n20SISO-Ant9-2437-0~Reference</p>
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<p>11n20SISO-Ant9-2462-0~Reference</p>	<p>11n20SISO-Ant9-2462-30~1000</p>
<p>11n20SISO-Ant9-2462-1000~26500</p>	<p>11n40SISO-Ant9-2422-0~Reference</p>
<p>11n40SISO-Ant9-2422-30~1000</p>	<p>11n40SISO-Ant9-2422-1000~26500</p>

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<p>11n40SISO-Ant9-2437-0~Reference</p>	<p>11n40SISO-Ant9-2437-30~1000</p>
<p>11n40SISO-Ant9-2437-1000~26500</p>	<p>11n40SISO-Ant9-2452-0~Reference</p>
<p>11n40SISO-Ant9-2452-30~1000</p>	<p>11n40SISO-Ant9-2452-1000~26500</p>

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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant9	2412	8.38	8.42	99.52	0.02
11g	Ant9	2412	1.39	1.44	96.53	0.15
11n20SISO	Ant9	2412	1.30	1.35	96.30	0.16
11n40SISO	Ant9	2422	0.64	0.69	92.75	0.33

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.38	8.42	99.52	0.11933	10Hz*
11g	1.39	1.44	96.53	0.71942	0.75KHz
11n20 SISO	1.3	1.35	96.30	0.76923	0.82KHz
11n40 SISO	0.64	0.69	92.75	1.56250	1.6KHz

*Duty cycle > 98% VBW setting=10Hz

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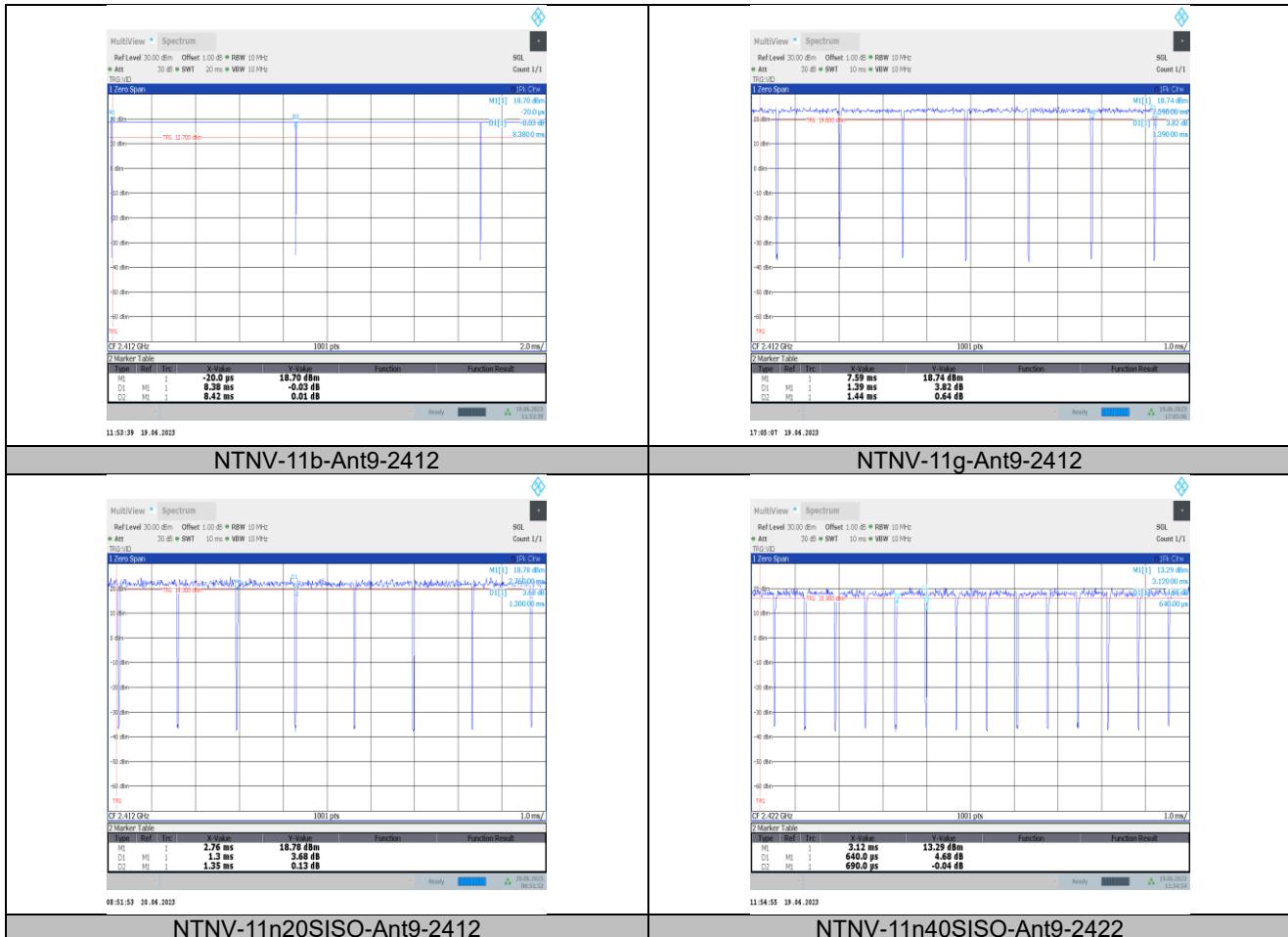
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Test Graphs



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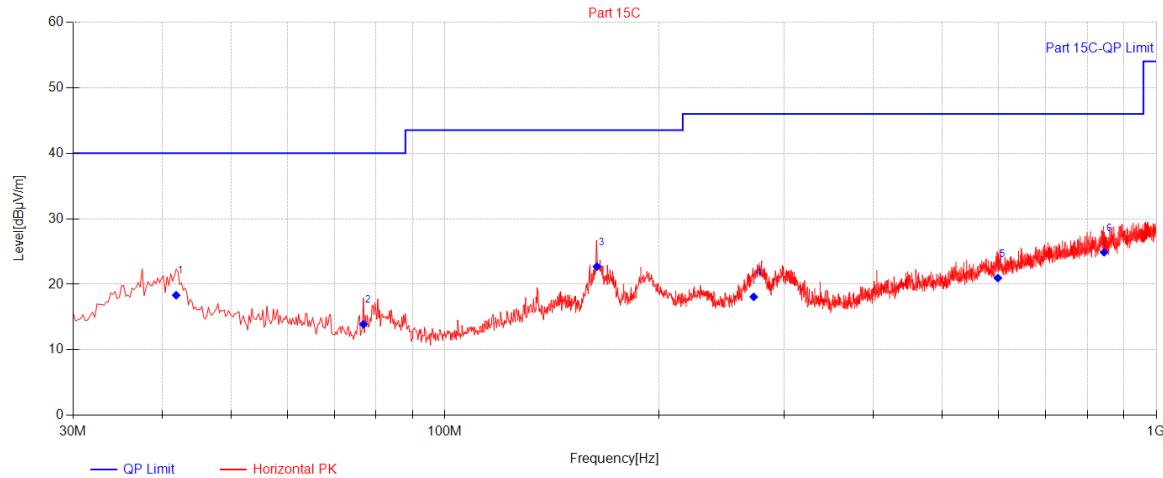
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.8825	40.67	-36.25	13.91	18.34	40.00	21.66	269	161	Horizontal
2	76.8025	40.06	-35.91	9.78	13.92	40.00	26.08	125	183	Horizontal
3	163.6175	43.73	-35.25	14.24	22.71	43.50	20.79	184	284	Horizontal
4	271.7725	40.15	-34.17	12.11	18.09	46.00	27.91	226	161	Horizontal
5	599.1475	34.68	-32.03	18.30	20.96	46.00	25.04	138	202	Horizontal
6	845.0425	34.66	-30.79	21.01	24.88	46.00	21.12	214	22	Horizontal



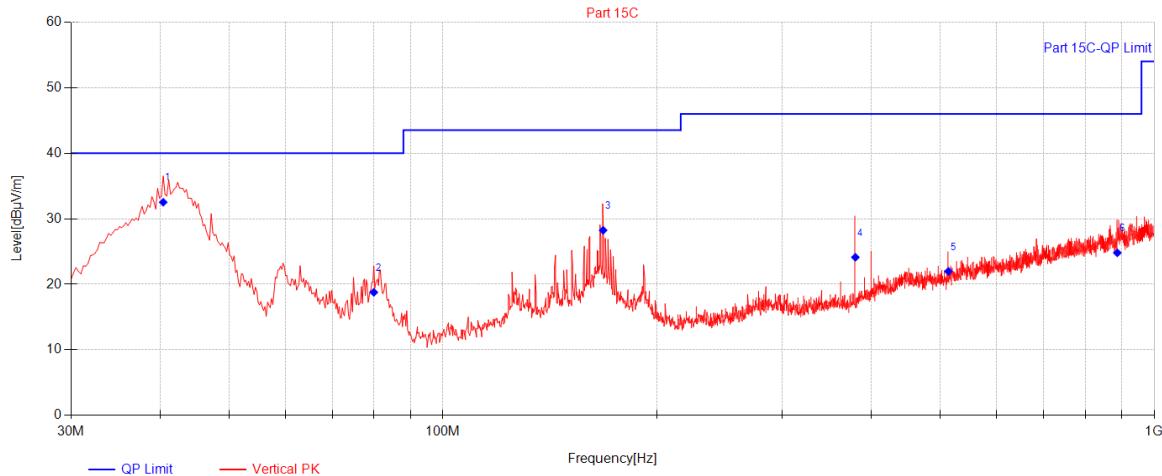
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4275	54.75	-36.26	14.03	32.52	40.00	7.48	154	0	Vertical
2	79.955	45.12	-35.63	9.30	18.78	40.00	21.22	266	86	Vertical
3	167.9825	49.06	-35.18	14.36	28.24	43.50	15.26	132	136	Vertical
4	380.17	43.69	-33.94	14.38	24.13	46.00	21.87	187	86	Vertical
5	513.7875	38.12	-32.89	16.75	21.98	46.00	24.02	259	187	Vertical
6	887.7225	33.70	-30.38	21.49	24.81	46.00	21.19	146	329	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dB μ V/m) – Value(dB μ V/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.

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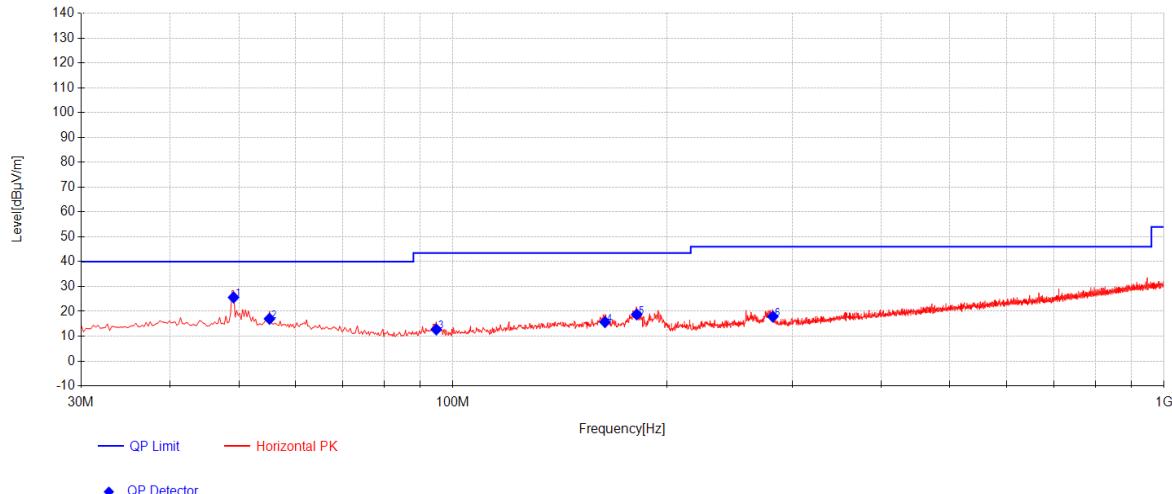
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Test on the worst case:

Worst case Mode: 802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	49.1575	40.35	19.24	-33.98	25.61	40.00	14.39	Horizontal
2	55.22	31.93	18.99	-33.92	17.00	40.00	23.00	Horizontal
3	94.7475	31.17	15.08	-33.53	12.72	43.50	30.78	Horizontal
4	163.6175	30.73	17.97	-33.02	15.68	43.50	27.82	Horizontal
5	181.32	35.22	16.41	-32.87	18.76	43.50	24.74	Horizontal
6	281.715	32.23	17.95	-32.28	17.90	46.00	28.10	Horizontal



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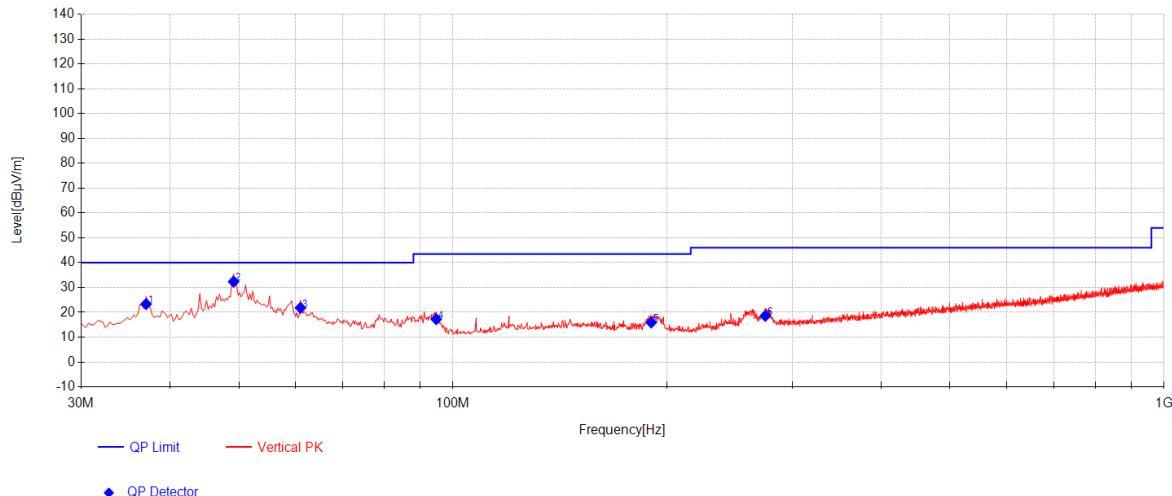
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	37.0325	38.35	18.99	-34.00	23.34	40.00	16.66	Vertical
2	49.1575	47.10	19.24	-33.98	32.36	40.00	7.64	Vertical
3	61.04	37.06	18.62	-33.85	21.84	40.00	18.16	Vertical
4	94.7475	35.69	15.08	-33.53	17.24	43.50	26.26	Vertical
5	190.05	32.91	15.85	-32.82	15.94	43.50	27.56	Vertical
6	274.925	33.19	17.70	-32.31	18.58	46.00	27.42	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

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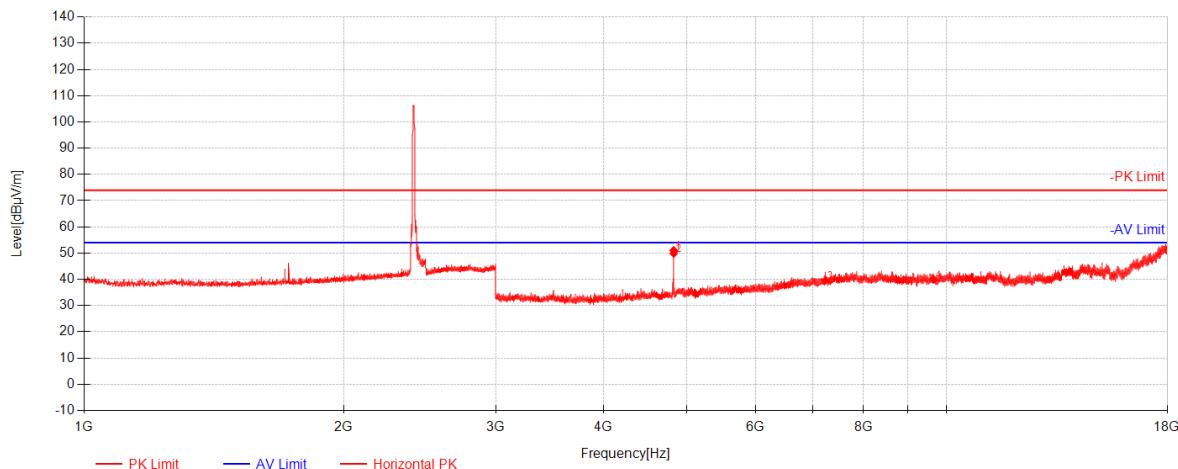
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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List											
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4824.0000	65.57	31.01	-45.54	51.05	74.00	22.95	185	111	Horizontal	
2	4824.5	64.39	31.01	-45.54	49.87	54.00	4.13	142	111	Horizontal	
3	7236.0000	47.32	35.86	-43.54	39.64	74.00	34.36	163	280	Horizontal	
4	9648.0000	41.98	37.53	-39.56	39.95	74.00	34.05	211	4	Horizontal	



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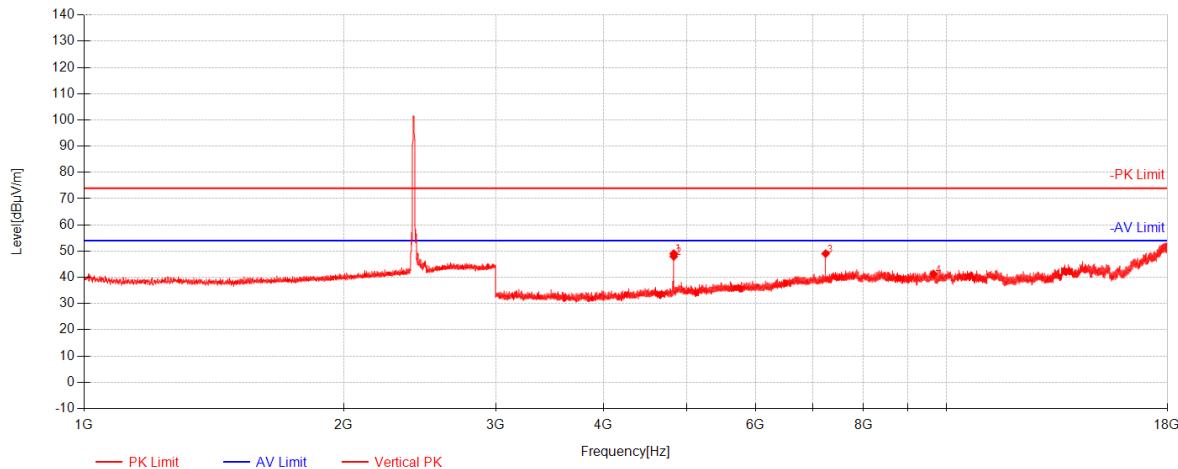
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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	63.57	31.01	-45.54	49.05	74.00	24.95	248	112	Vertical
2	4824.5	62.49	31.01	-45.54	47.97	54.00	6.03	175	84	Vertical
3	7236.0000	56.71	35.86	-43.54	49.03	74.00	24.97	146	197	Vertical
4	9648.0000	43.33	37.53	-39.56	41.30	74.00	32.70	199	336	Vertical



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