

Report No.: SEWM2209000196RG04
 Rev.: 01
 Page: 1 of 101

TEST REPORT

Application No.: SEWM2209000196RG
Applicant: Neutron Holdings, Inc.
Address of Applicant: 85 2nd St, San Francisco, CA 94105 USA
Manufacturer: Neutron Holdings, Inc.
Address of Manufacturer: 85 2nd St, San Francisco, CA 94105 USA
EUT Description: Central Controller
Model No.: Lime-4.1-GL
Trade Mark: Lime
FCC ID: 2APB2LIME-41-GLV2
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/10/21
Date of Test: 2022/12/01 to 2022/12/06
Date of Issue: 2022/12/08

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:

Panta Sun
 Wireless Laboratory Manager


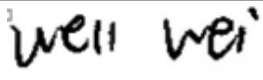


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/08		Original

Prepared By		 <hr/> (Ives Cheng) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Neutron Holdings, Inc.
Address of Applicant:	85 2nd St, San Francisco, CA 94105 USA
Manufacturer:	Neutron Holdings, Inc.
Address of Manufacturer:	85 2nd St, San Francisco, CA 94105 USA

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, Tizzy Song

3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Central Controller	
Model No.:	Lime-4.1-GL	
Trade Mark:	Lime	
Hardware Version:	V4_1.2.1	
Software Version:	V4_1.1.8	
IMEI:	RF Conducted	862771040478466
	RSE & AC power line	866258048612391
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
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	
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
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	PIFA Antenna	
Antenna Gain:	3.2dBi	
	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		

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)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



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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	48
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)	/



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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)
<p>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.</p> <p>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.</p>	
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 3.2dBi.*</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>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.</i></p>	



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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:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>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,</p> <p>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.</p>		



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



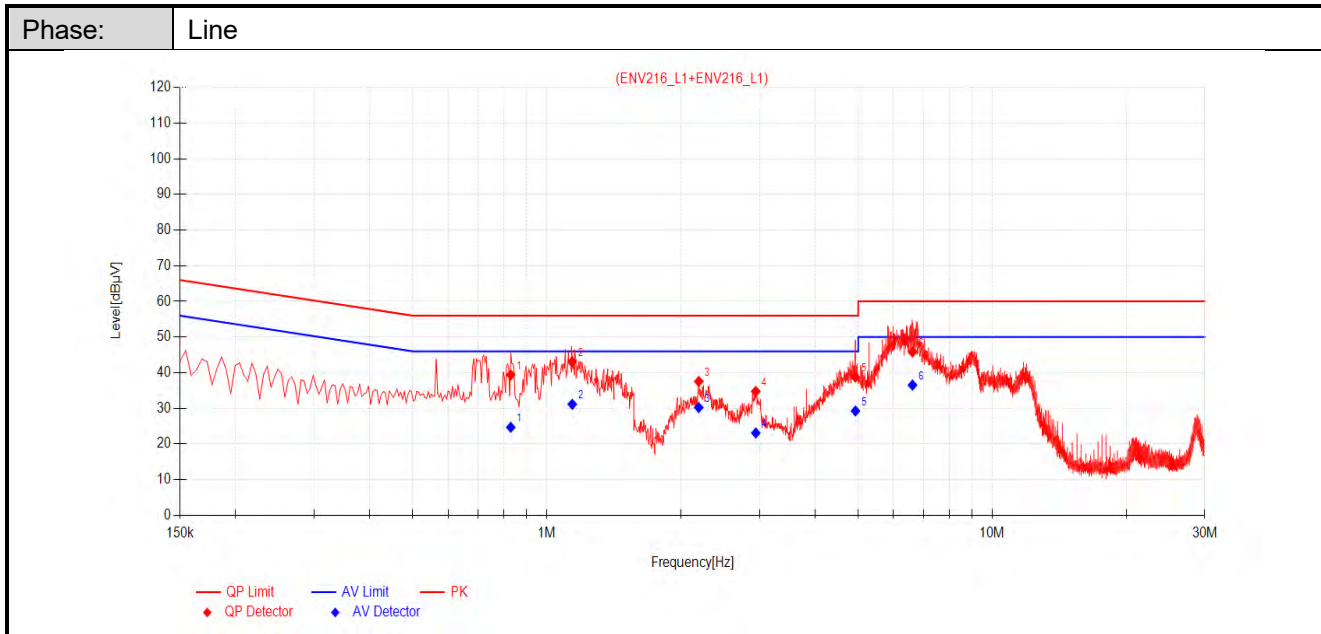
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Measurement Data

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



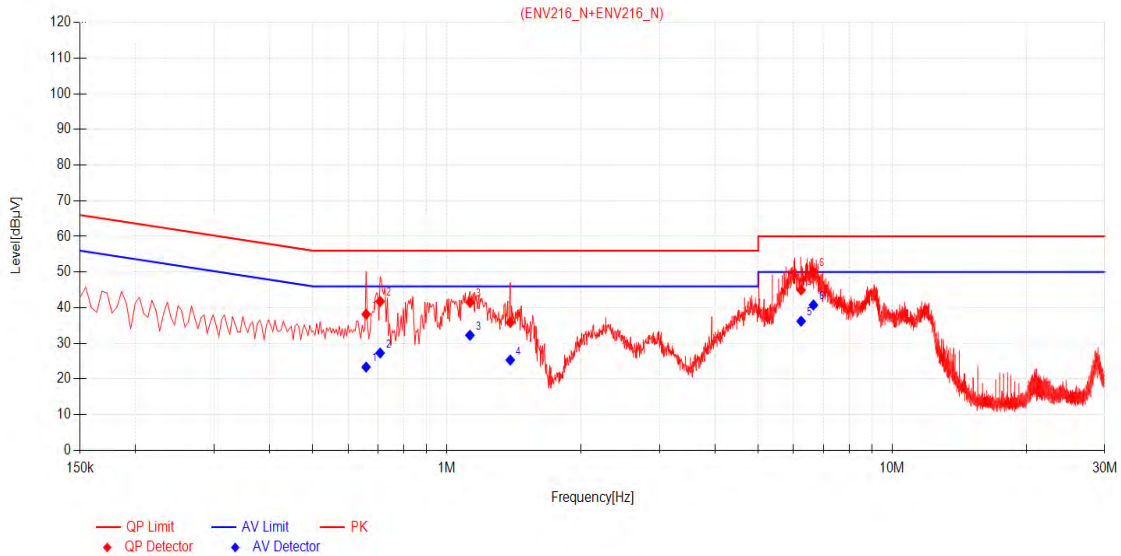
Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.8295	10.53	28.85	39.38	56.00	16.62	14.16	24.69	46.00	21.31	PASS
2	1.1400	10.69	32.43	43.12	56.00	12.88	20.45	31.14	46.00	14.86	PASS
3	2.1930	10.68	26.87	37.55	56.00	18.45	19.55	30.23	46.00	15.77	PASS
4	2.9445	10.67	24.09	34.76	56.00	21.24	12.43	23.10	46.00	22.90	PASS
5	4.9290	10.64	28.14	38.78	56.00	17.22	18.62	29.26	46.00	16.74	PASS
6	6.6210	10.69	35.12	45.81	60.00	14.19	25.84	36.53	50.00	13.47	PASS

Remark:

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



Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6585	10.77	27.40	38.17	56.00	17.83	12.58	23.35	46.00	22.65	PASS
2	0.7080	10.81	30.95	41.76	56.00	14.24	16.50	27.31	46.00	18.69	PASS
3	1.1265	10.72	30.75	41.47	56.00	14.53	21.55	32.27	46.00	13.73	PASS
4	1.3875	10.78	25.09	35.87	56.00	20.13	14.54	25.32	46.00	20.68	PASS
5	6.2430	10.57	34.39	44.96	60.00	15.04	25.64	36.21	50.00	13.79	PASS
6	6.6525	10.54	39.50	50.04	60.00	9.96	30.21	40.75	50.00	9.25	PASS

Remark:

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



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Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**

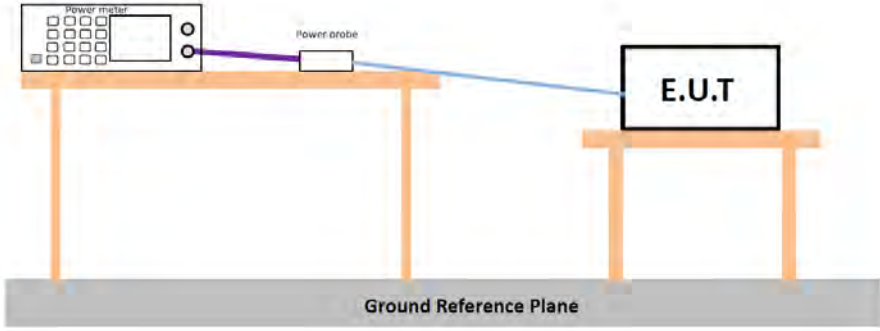


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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
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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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
Test Results:	Pass
The detailed test data see: Appendix	



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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:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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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	



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	



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:

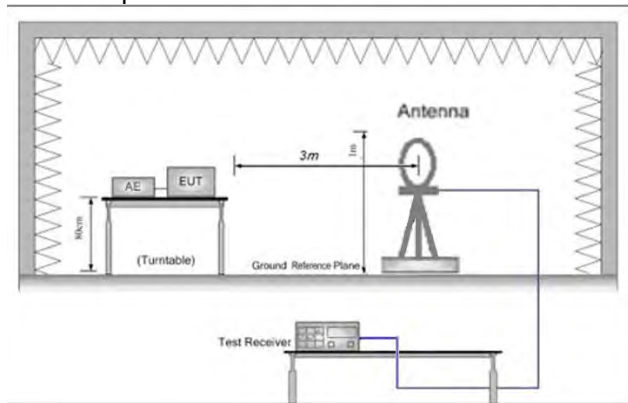


Figure 1. Below 30MHz

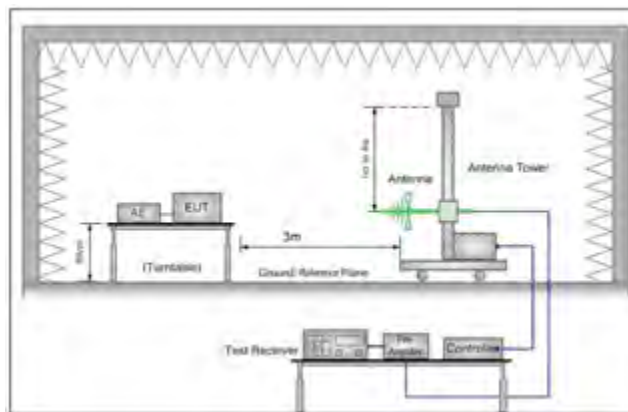


Figure 2. 30MHz to 1GHz

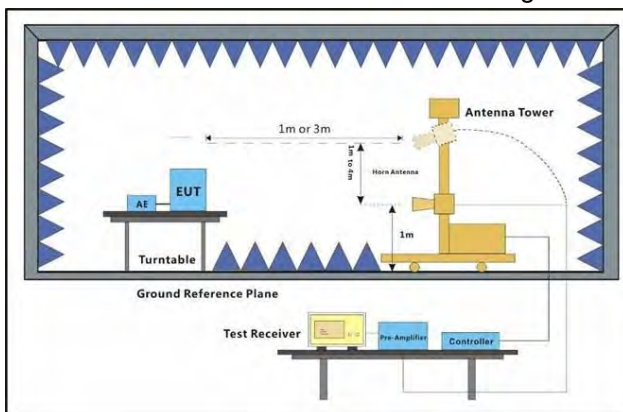


Figure 3. Above 1 GHz

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



	<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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • 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 $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: 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:

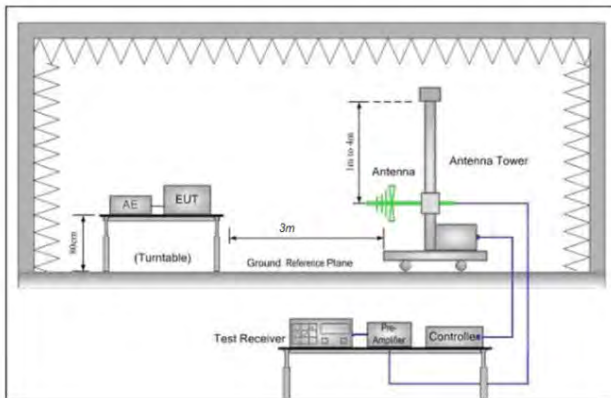


Figure 1. 30MHz to 1GHz

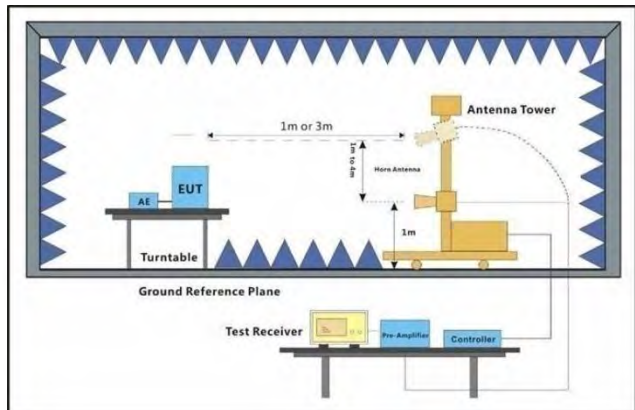


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<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 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.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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 ≥ [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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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

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)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (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					
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14



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RSE Test System					
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-01-01-15	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
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 V4.0.0.0	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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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	10.12	2406.92	2417.04	≥0.5	PASS
		2437	9.64	2431.92	2441.56	≥0.5	PASS
		2462	9.60	2456.96	2466.56	≥0.5	PASS
11g	Ant1	2412	16.48	2403.72	2420.20	≥0.5	PASS
		2437	16.48	2428.72	2445.20	≥0.5	PASS
		2462	16.48	2453.72	2470.20	≥0.5	PASS
11n20SISO	Ant1	2412	17.40	2403.40	2420.80	≥0.5	PASS
		2437	17.36	2428.40	2445.76	≥0.5	PASS
		2462	17.08	2453.40	2470.48	≥0.5	PASS



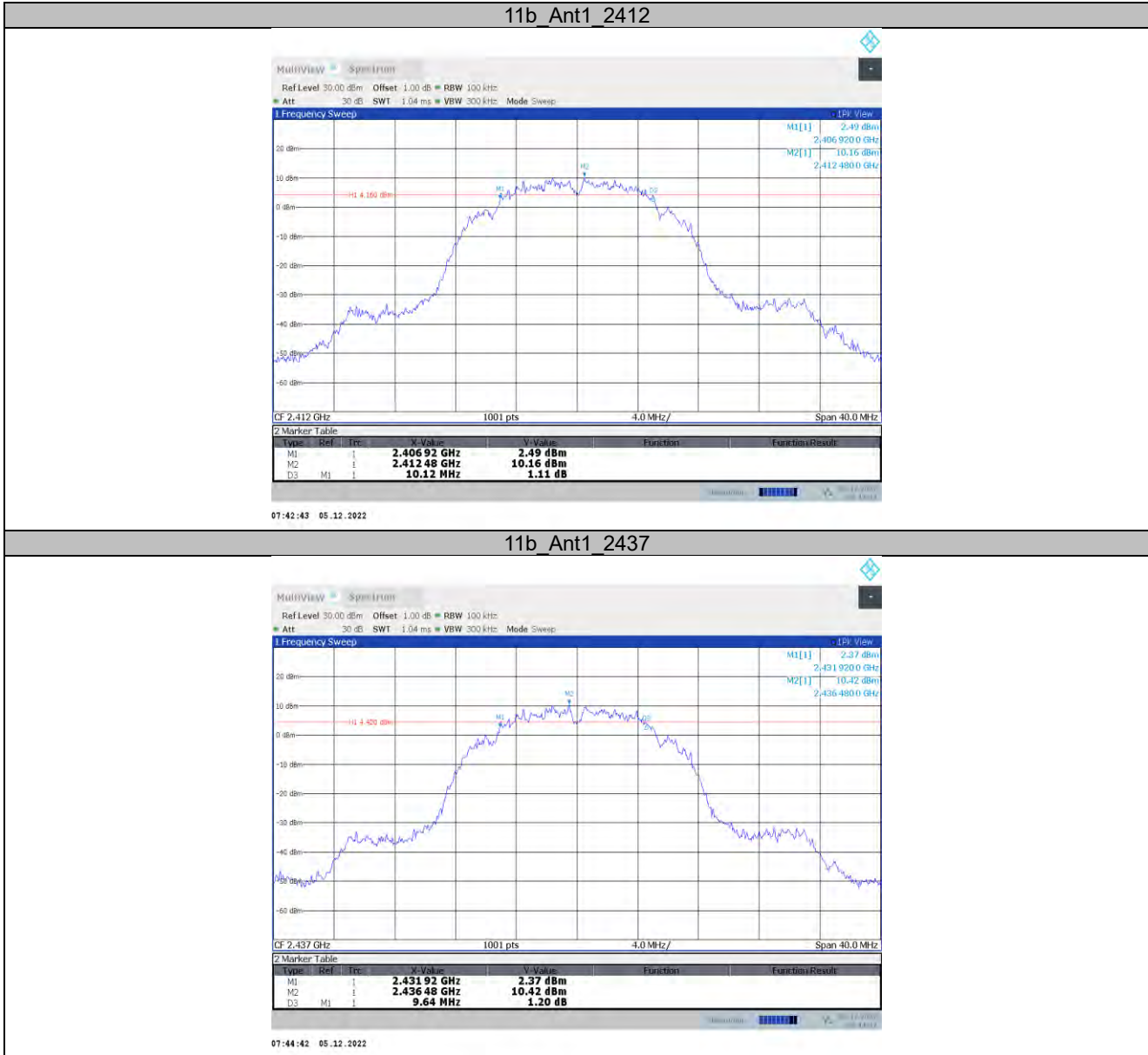
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Test Graphs



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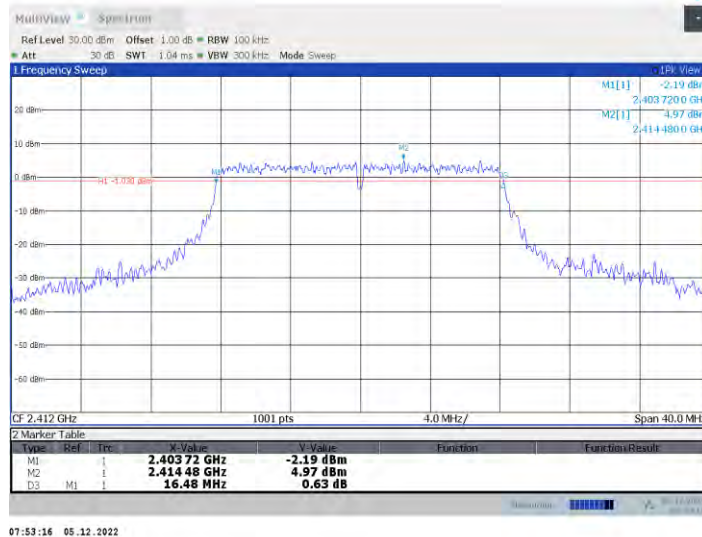
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11b Ant1 2462



11g Ant1 2412

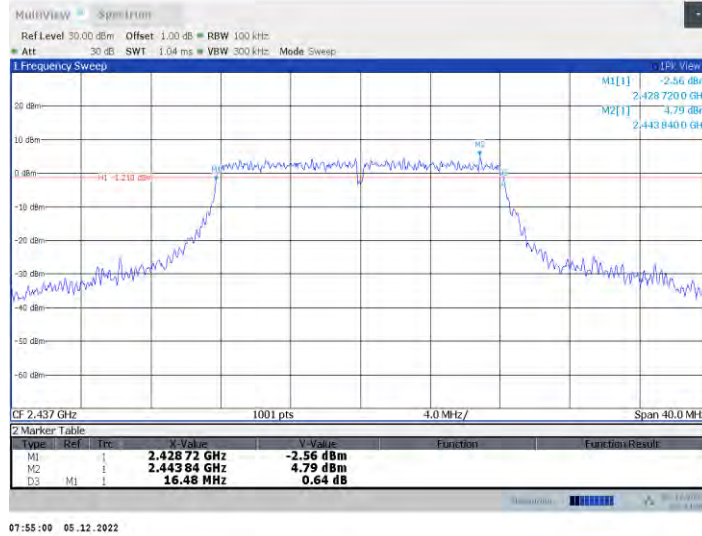


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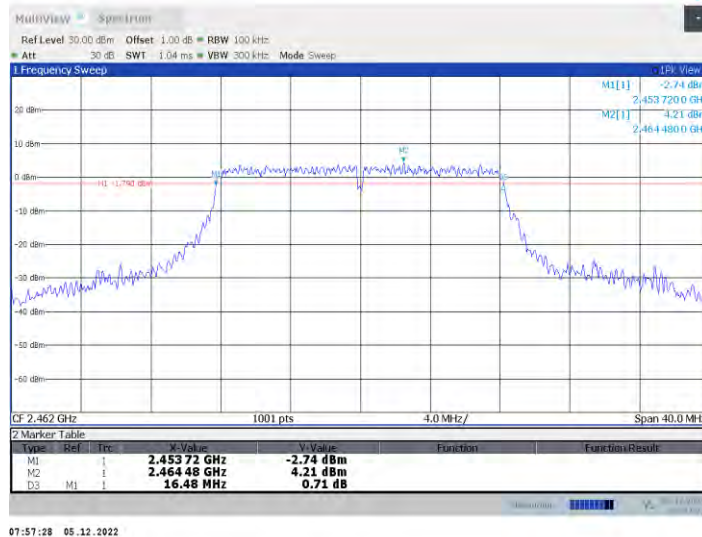
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11g Ant1 2437



11g Ant1 2462

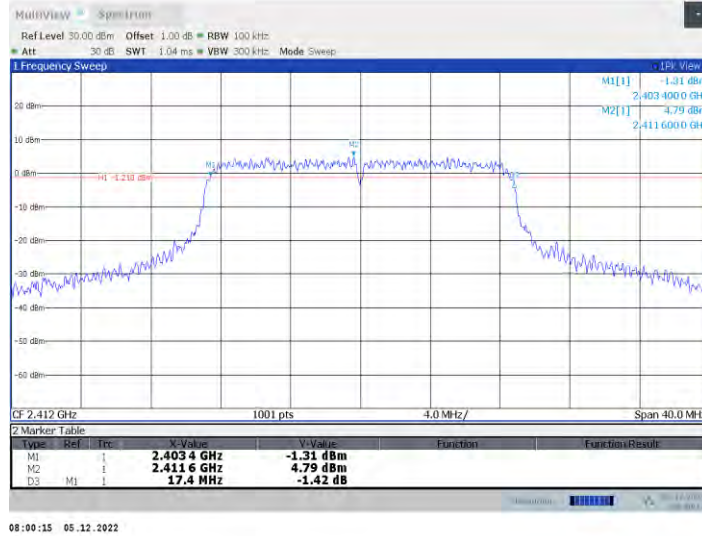


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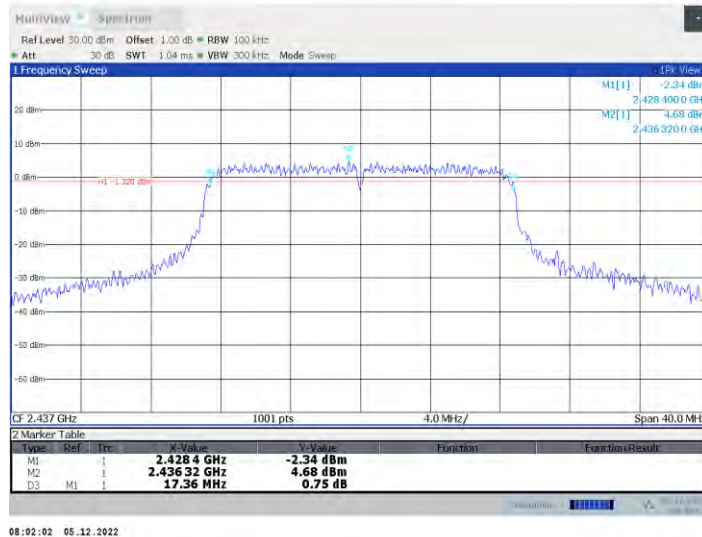
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

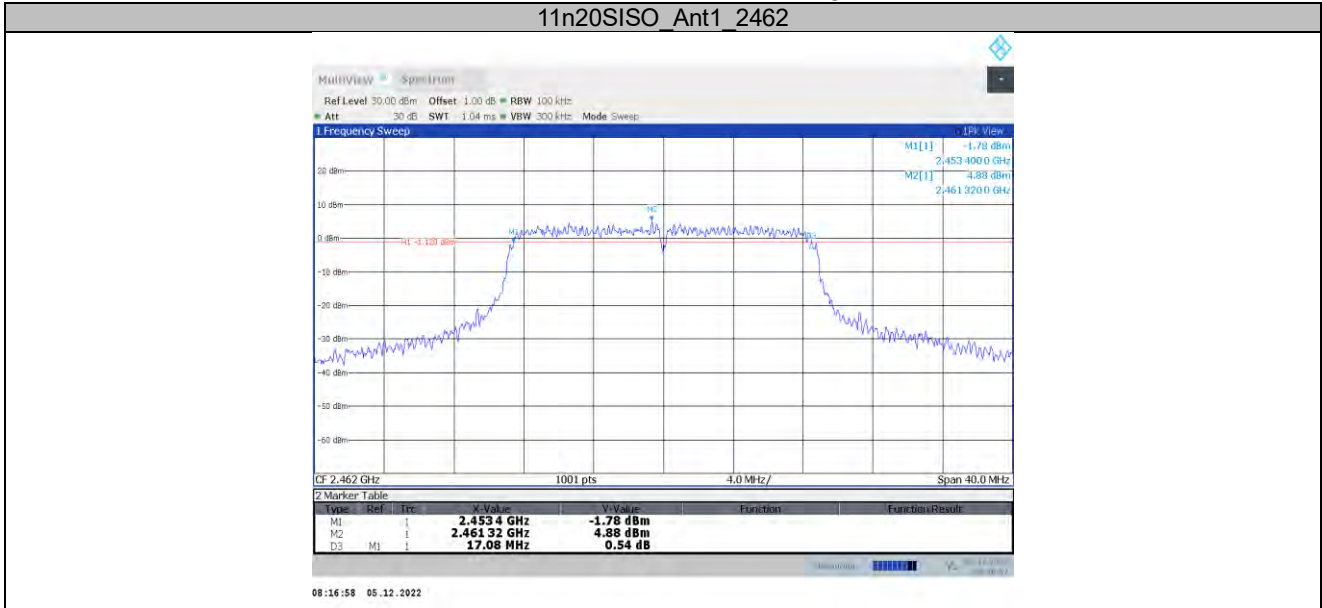


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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	13.405	2405.202	2418.607	Reporting only
		2437	13.371	2430.200	2443.571	
		2462	13.323	2455.221	2468.544	
11g	Ant1	2412	16.713	2403.652	2420.366	
		2437	16.66	2428.658	2445.319	
		2462	16.697	2453.640	2470.337	
11n20SISO	Ant1	2412	17.457	2403.233	2420.690	
		2437	17.436	2428.234	2445.670	
		2462	17.43	2453.244	2470.674	

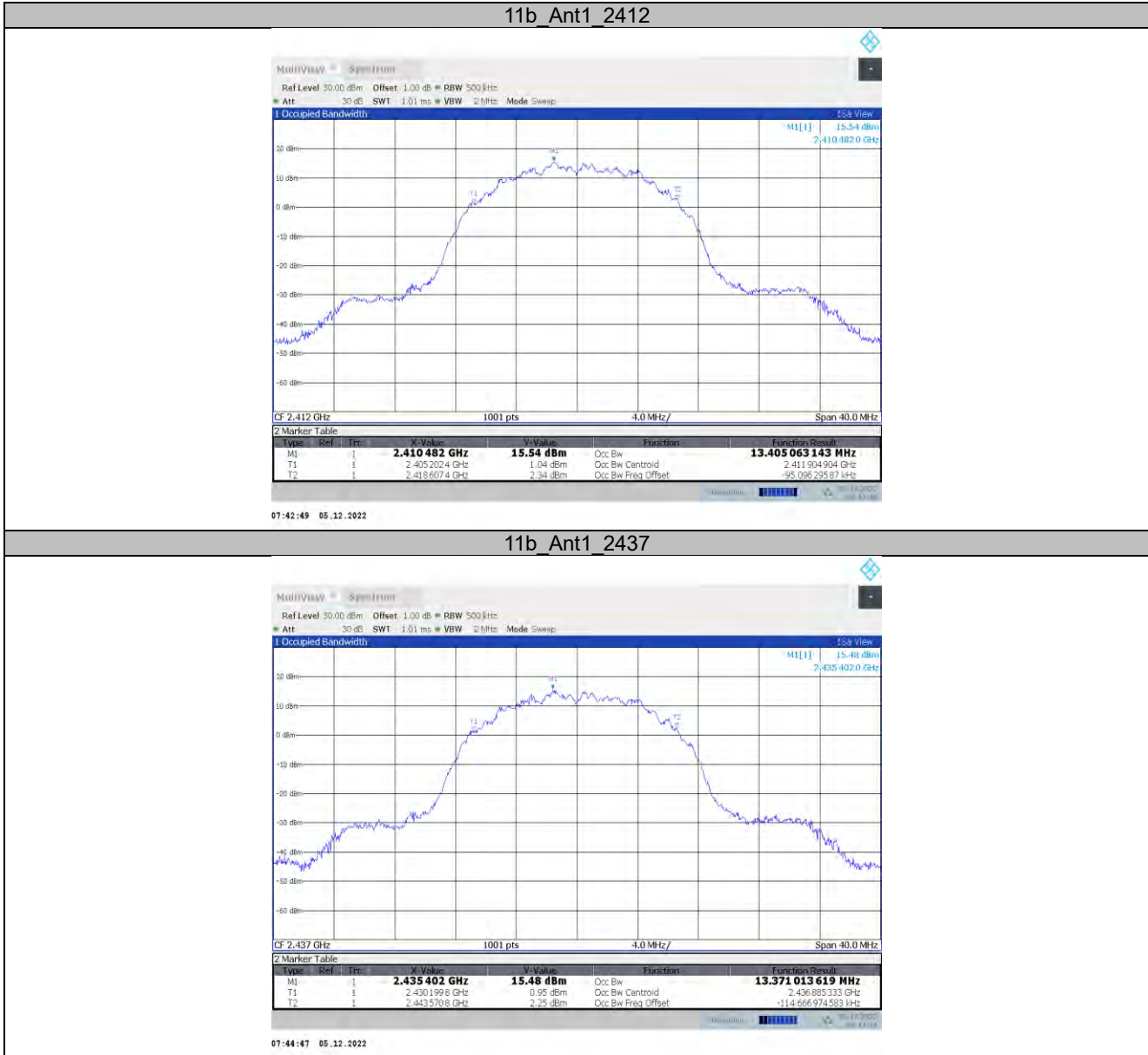


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Test Graphs

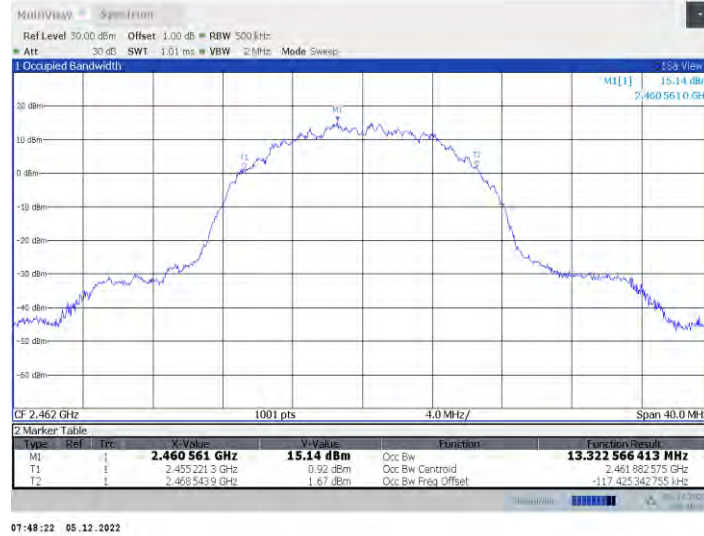


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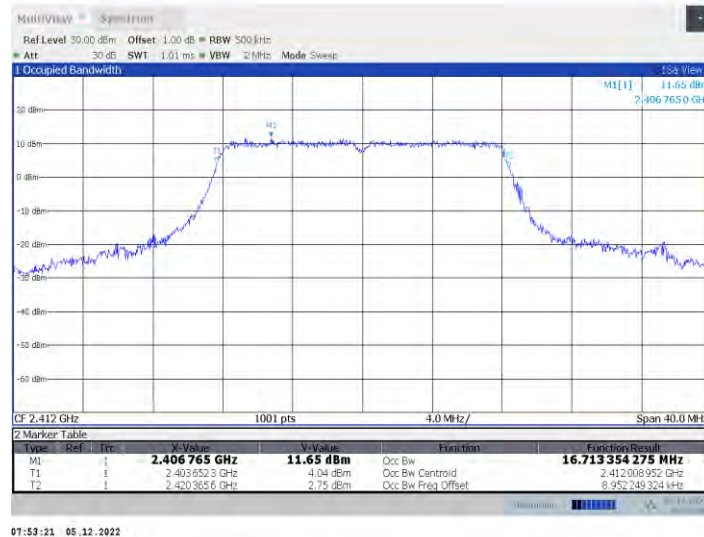
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11b Ant1 2462



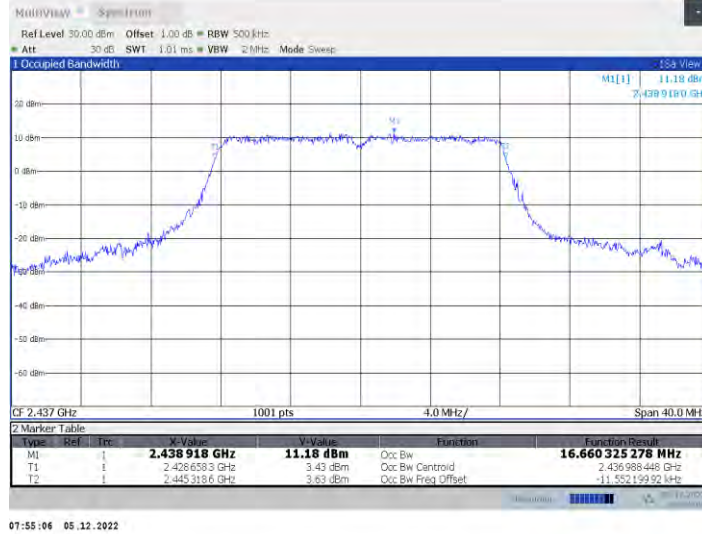
11g Ant1 2412



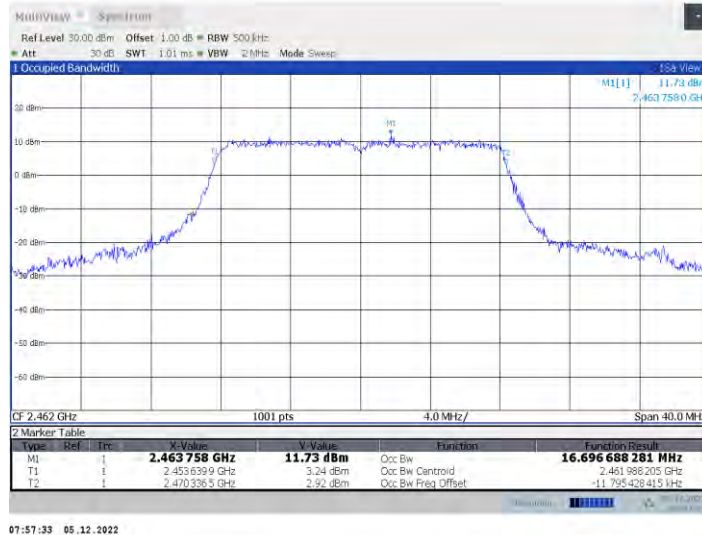
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11g Ant1 2437



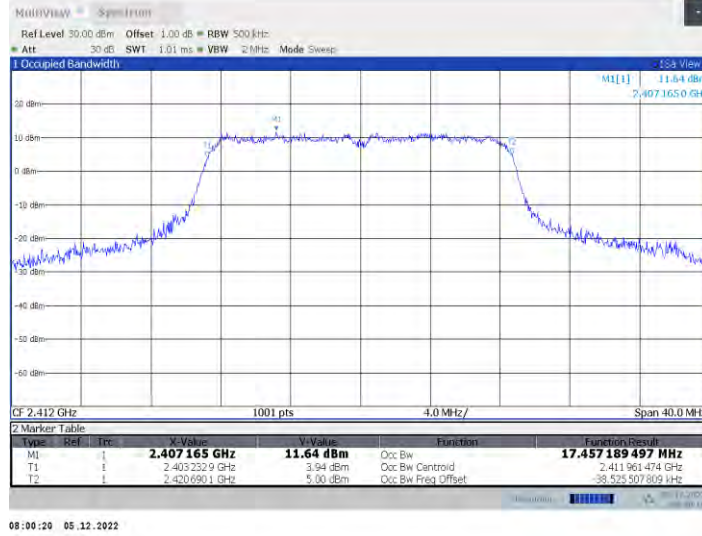
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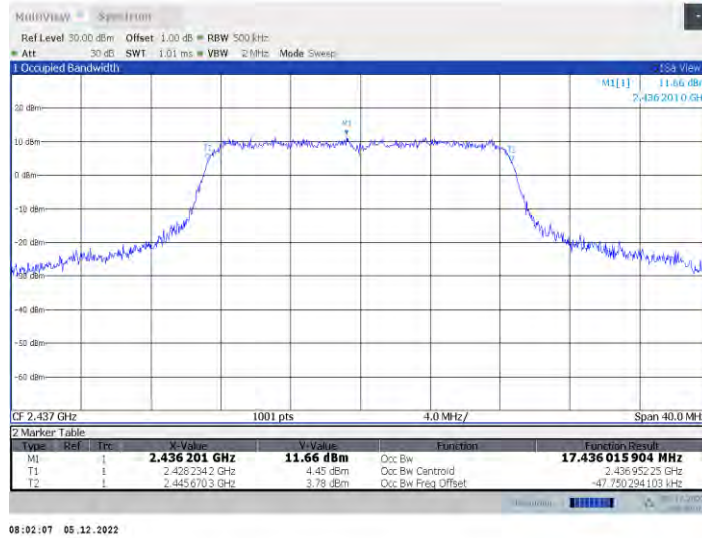
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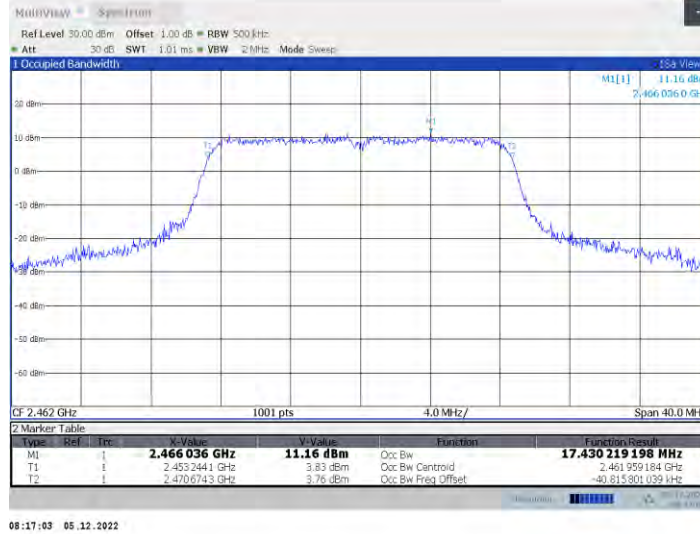
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Rev.: 01

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	21.61	≤30.00	PASS
		2437	21.52	≤30.00	PASS
		2462	21.79	≤30.00	PASS
11g	Ant1	2412	22.60	≤30.00	PASS
		2437	22.54	≤30.00	PASS
		2462	22.50	≤30.00	PASS
11n20SISO	Ant1	2412	22.78	≤30.00	PASS
		2437	22.66	≤30.00	PASS
		2462	22.73	≤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
11b	Ant1	2412	-4.7	≤8.00	PASS
		2437	-4.9	≤8.00	PASS
		2462	-5.14	≤8.00	PASS
11g	Ant1	2412	-10.13	≤8.00	PASS
		2437	-10.7	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11n20SISO	Ant1	2412	-9.63	≤8.00	PASS
		2437	-10.12	≤8.00	PASS
		2462	-10.57	≤8.00	PASS



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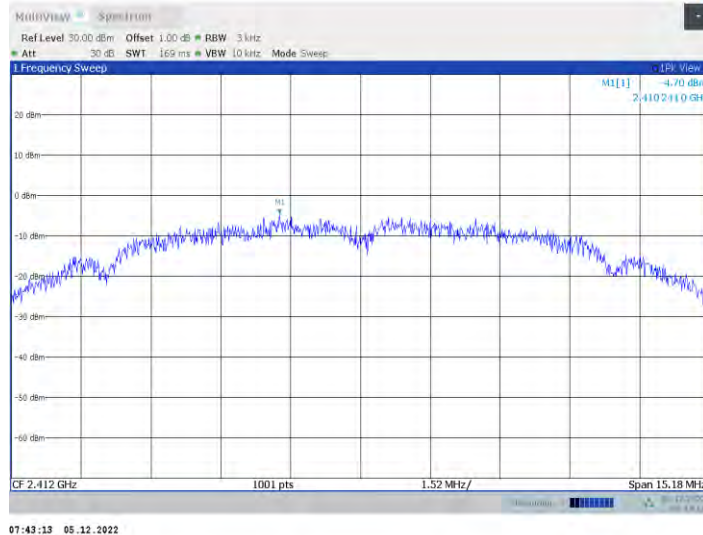
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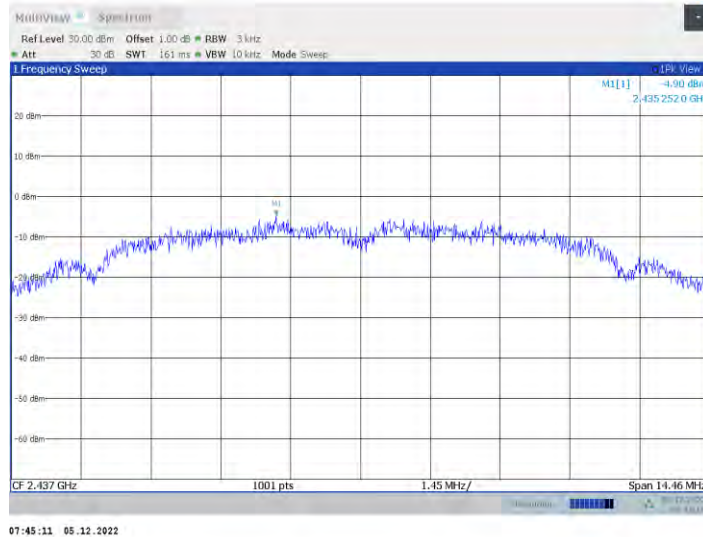
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Test Graphs

11b Ant1 2412



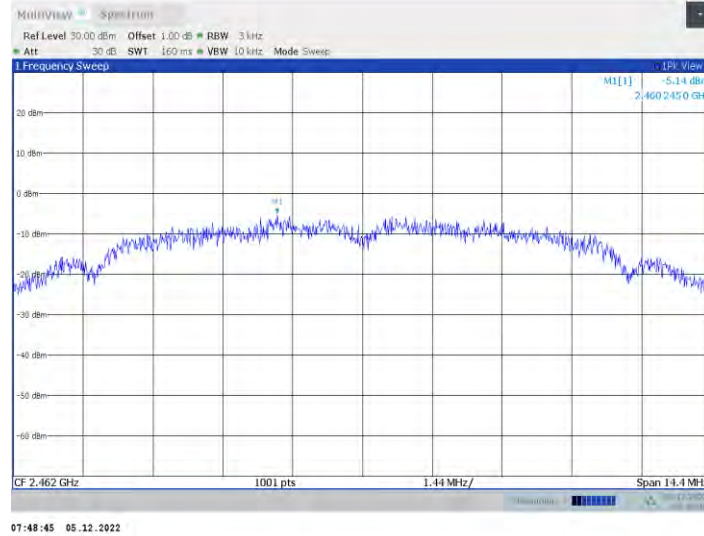
11b Ant1 2437



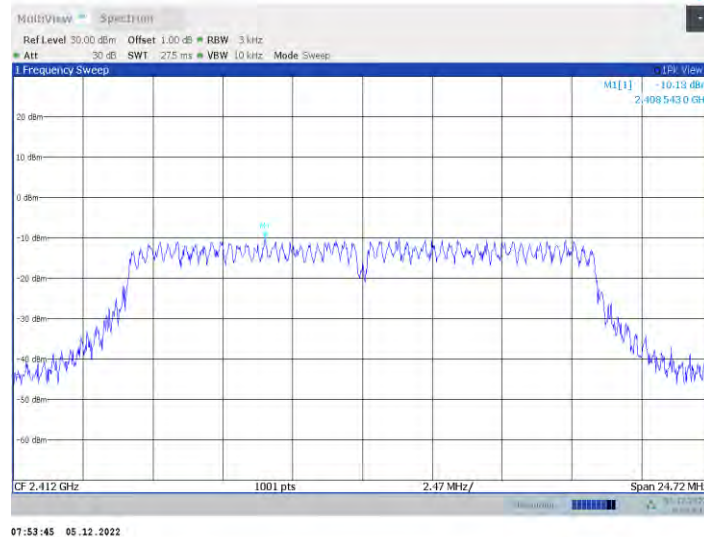
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11b Ant1 2462



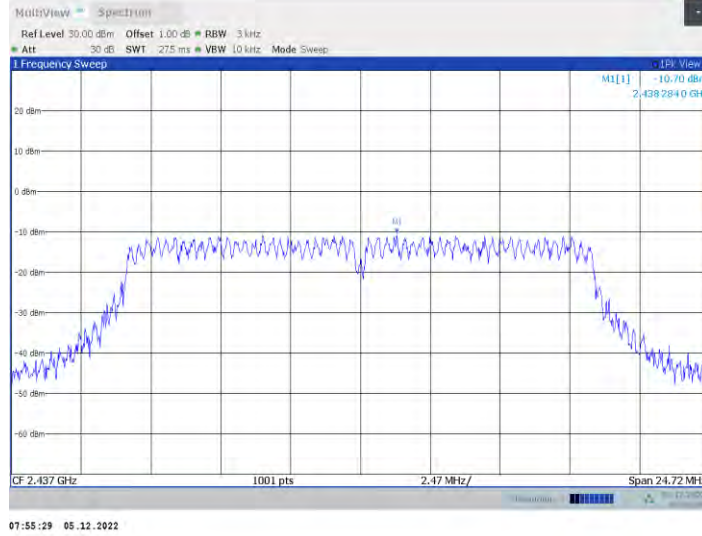
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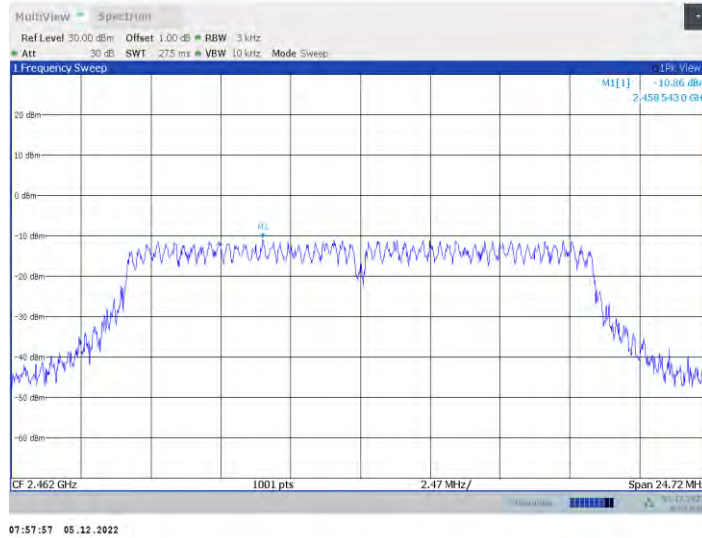
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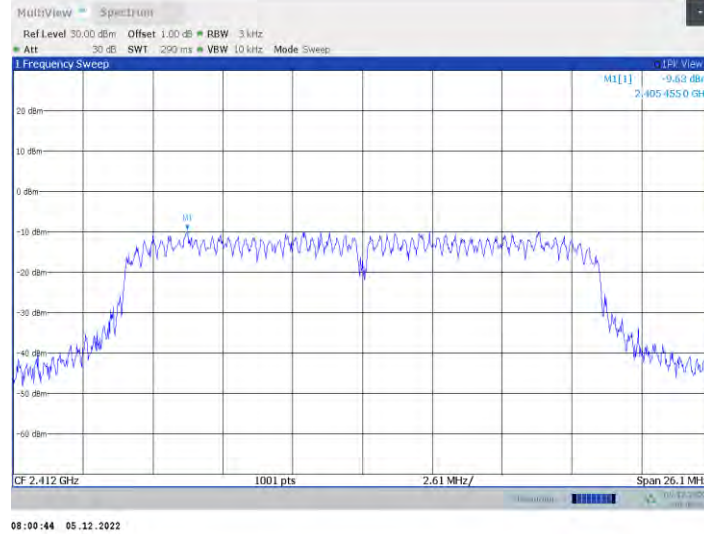
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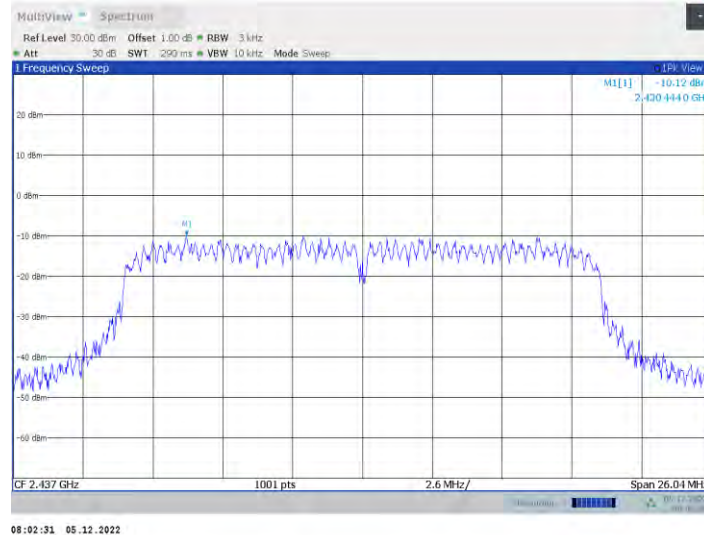
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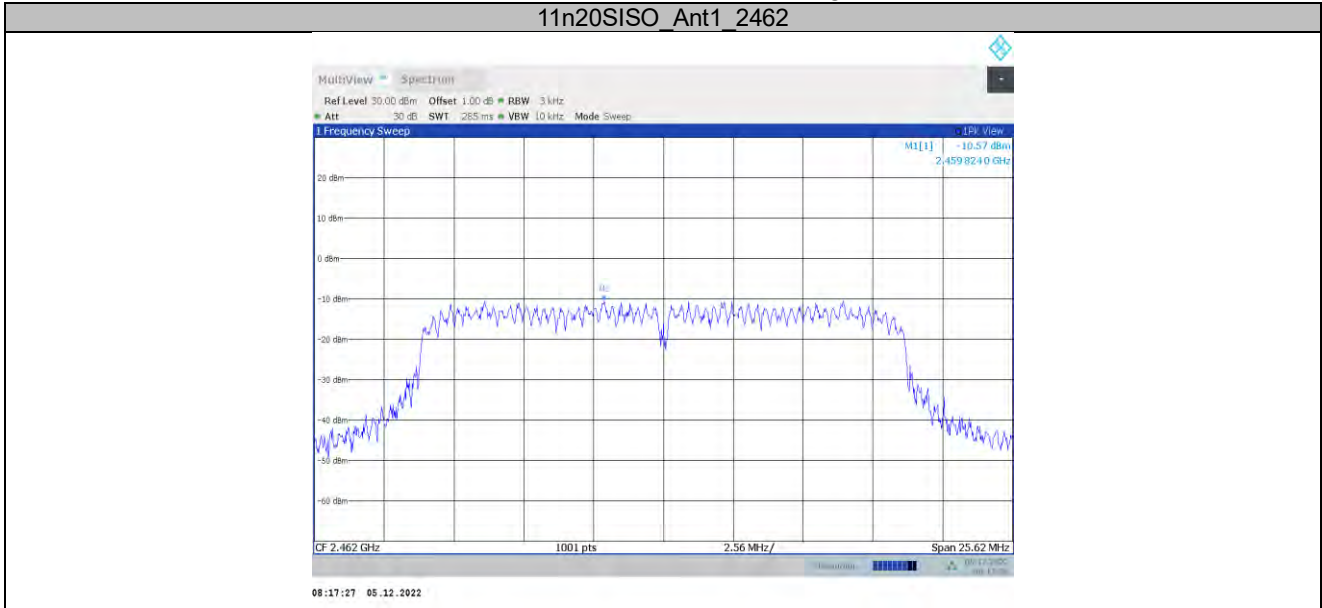
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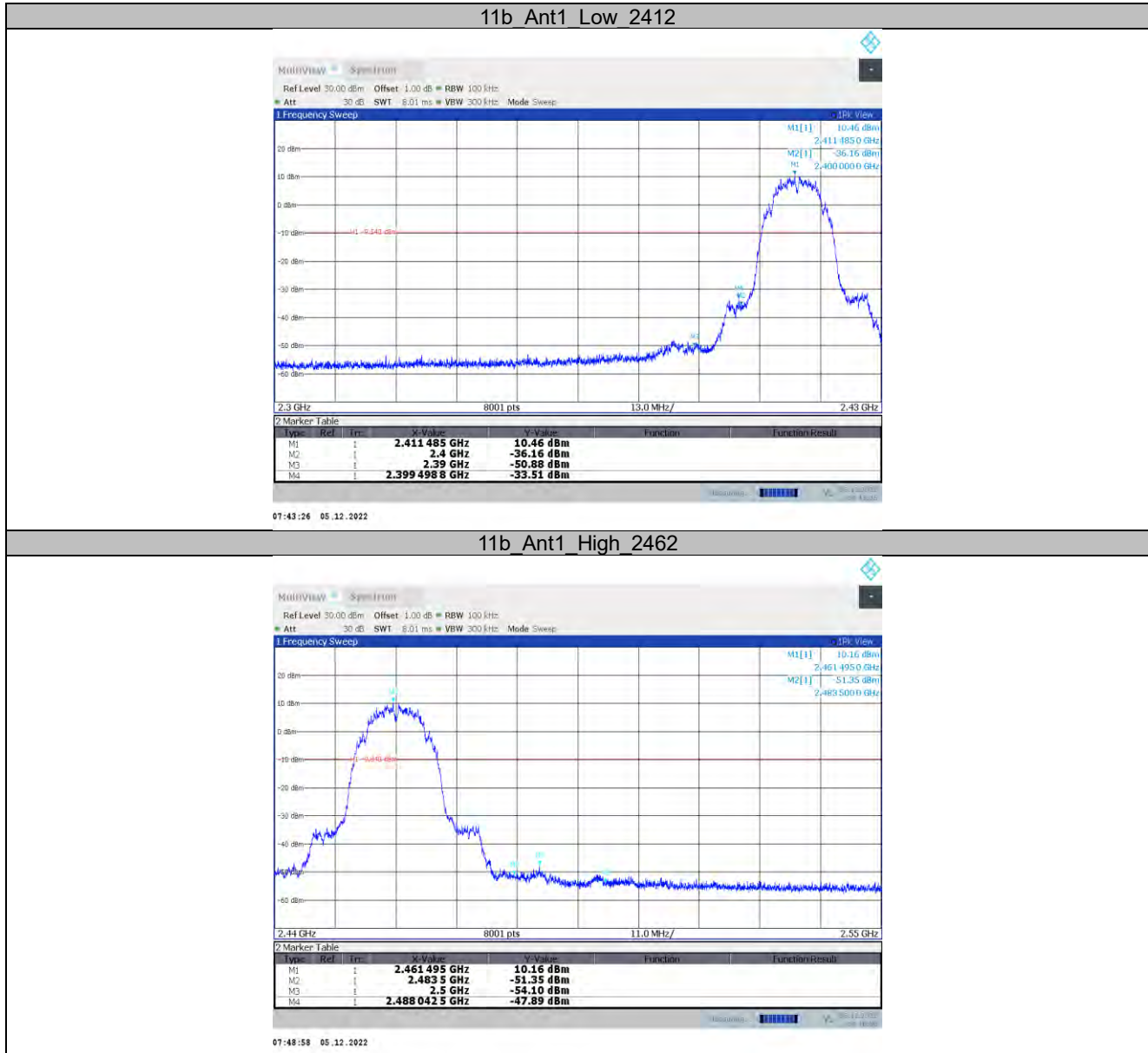
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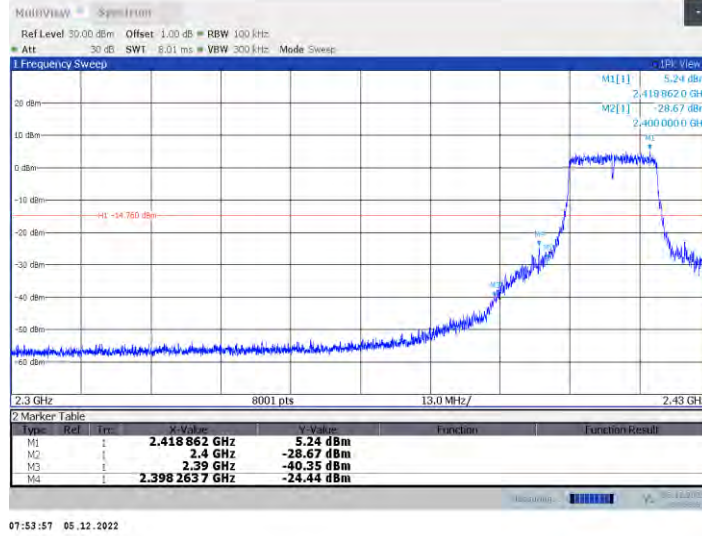
Band edge measurements Test Graphs



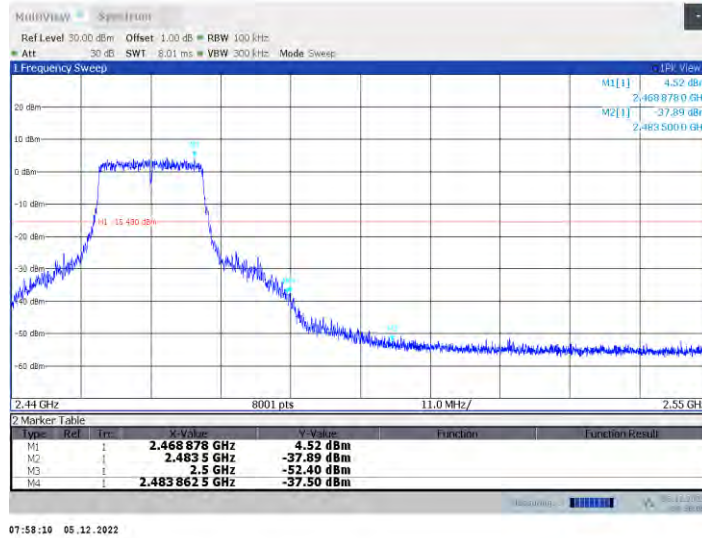
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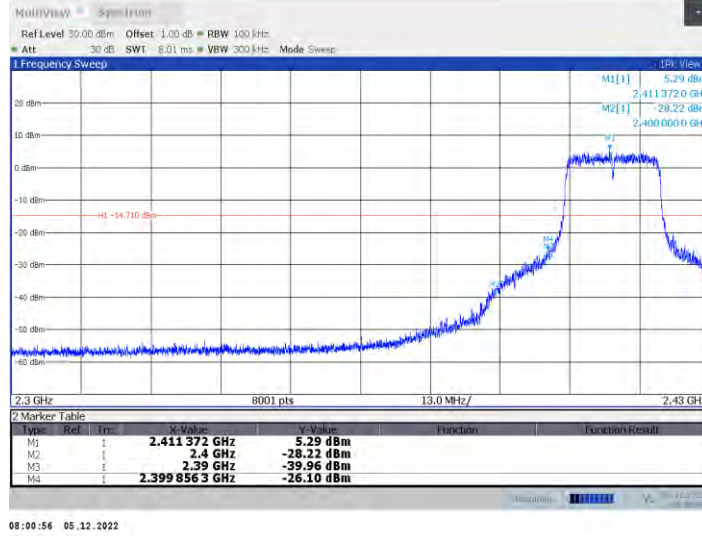


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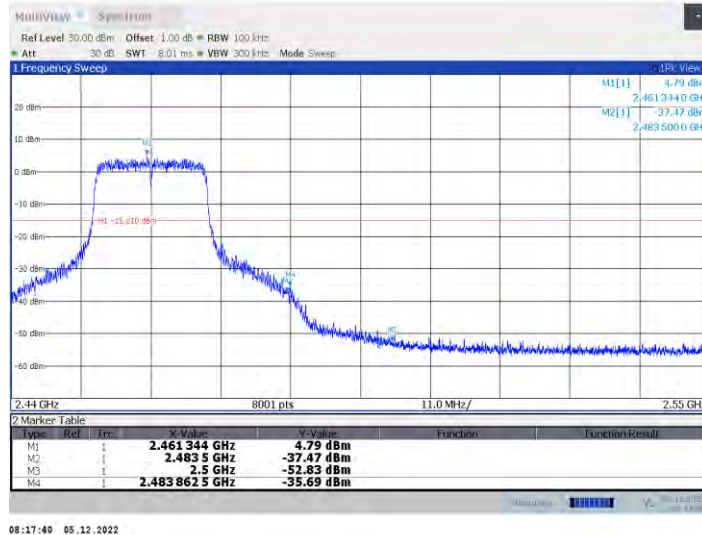
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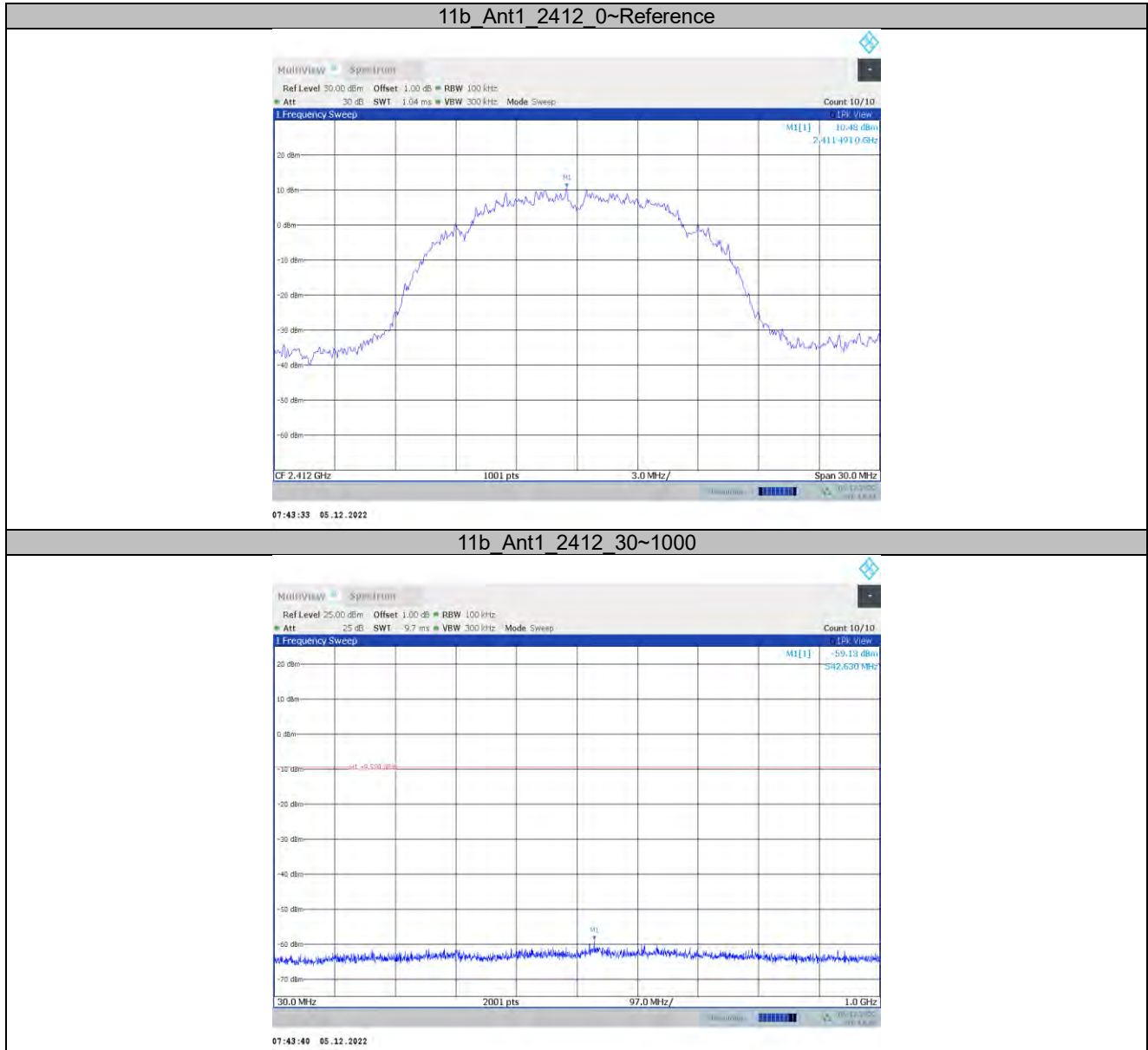


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Conducted Spurious Emission Test Graphs

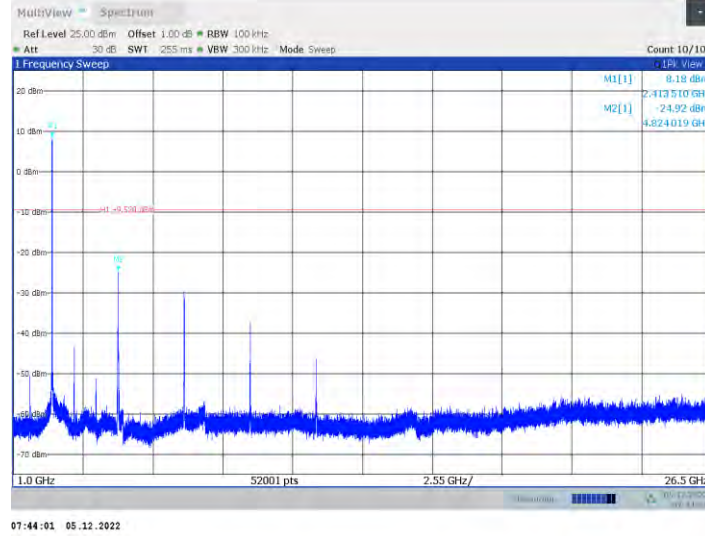


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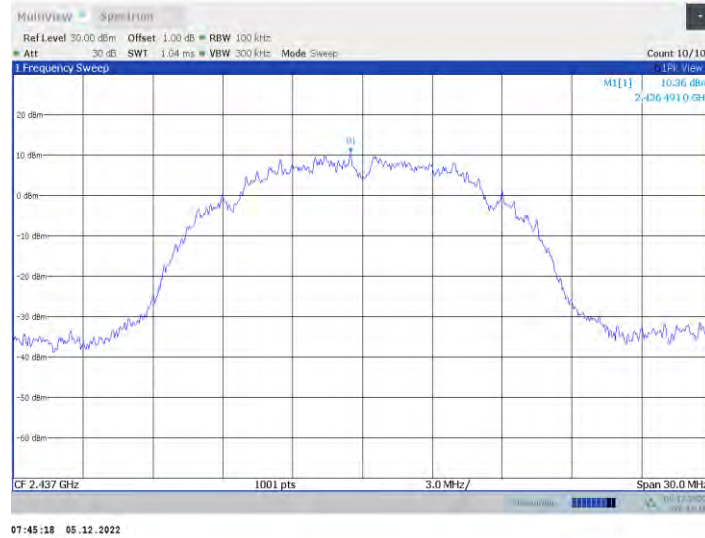
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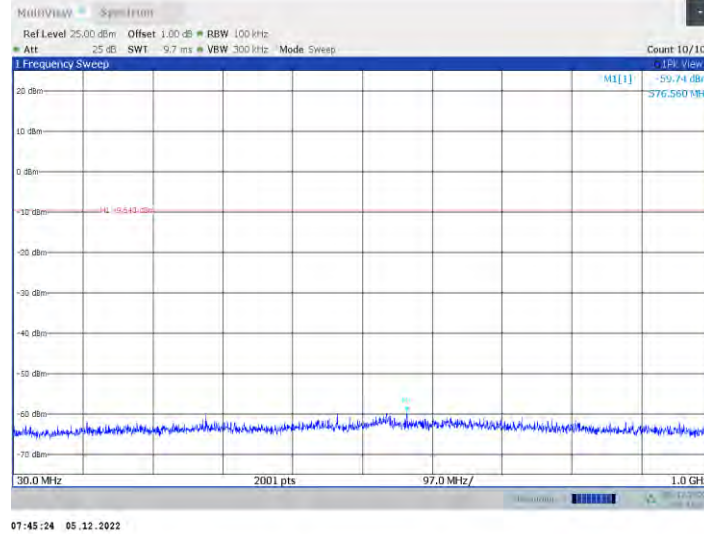
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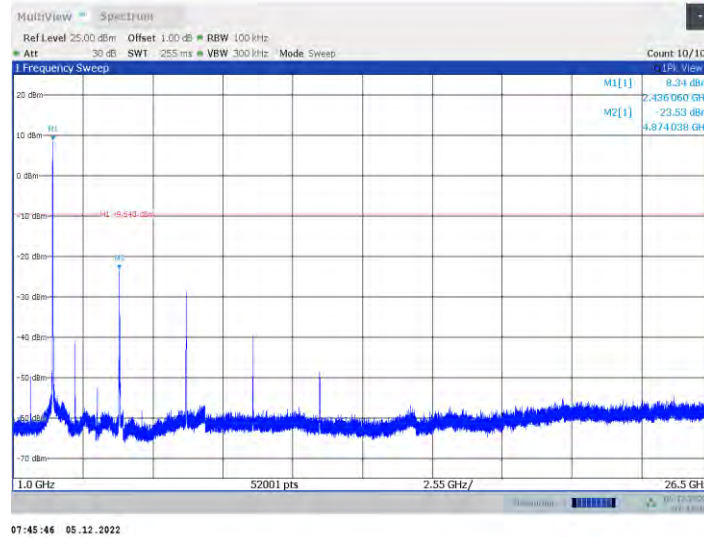
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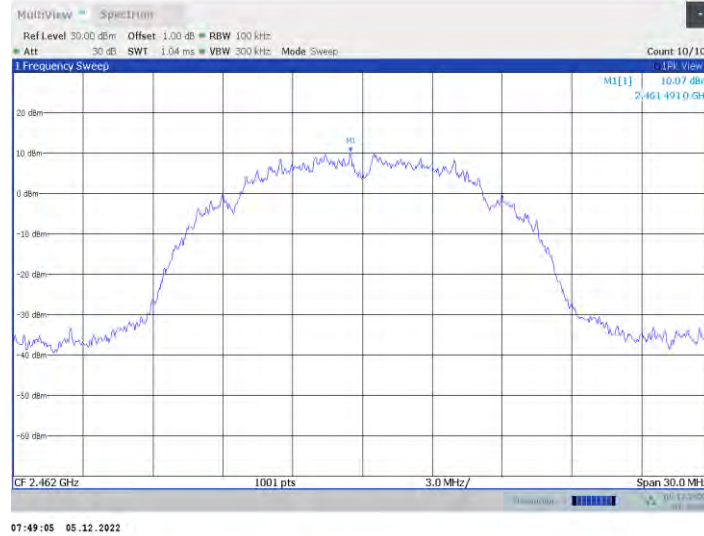


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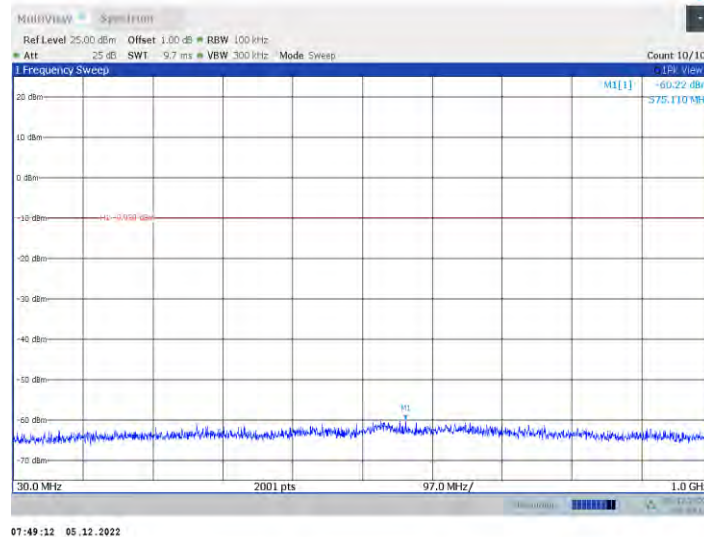
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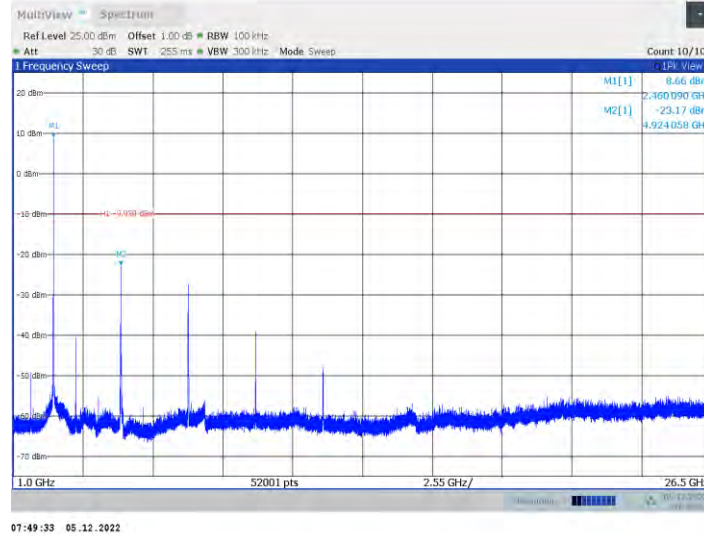
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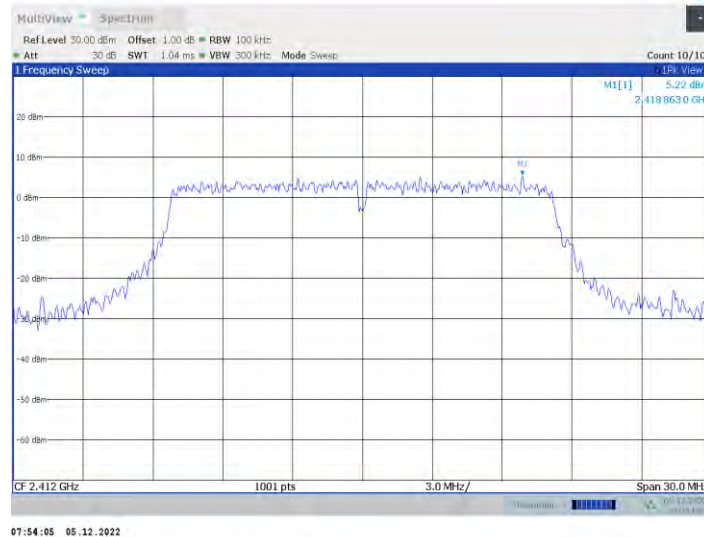
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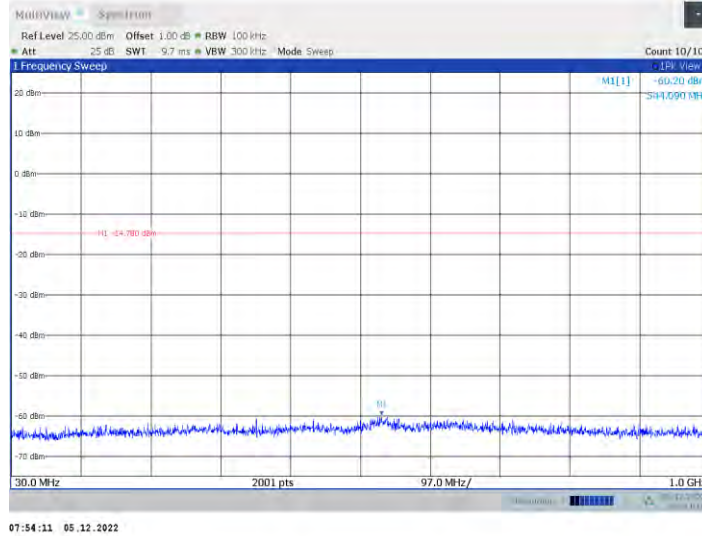
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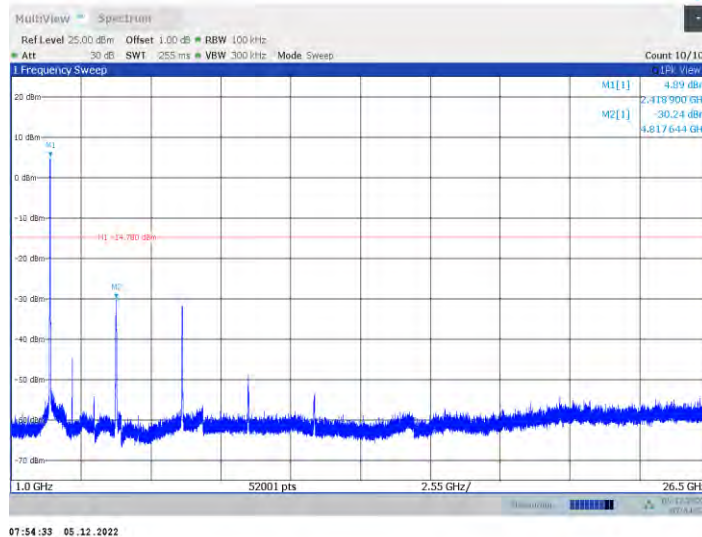
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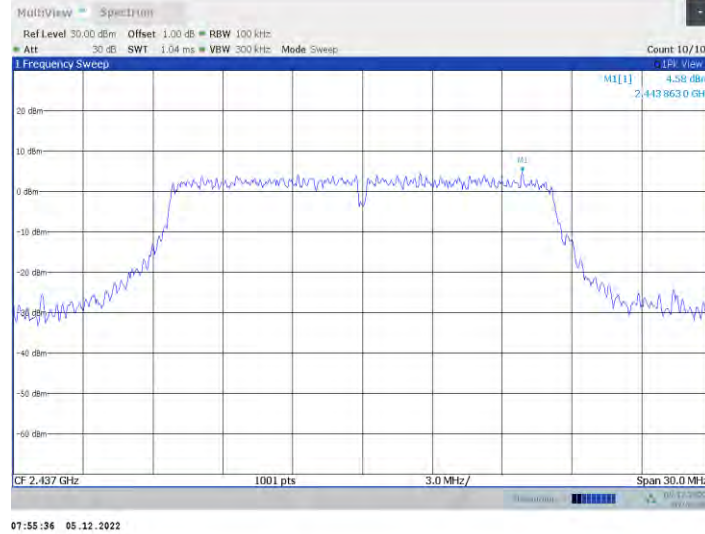
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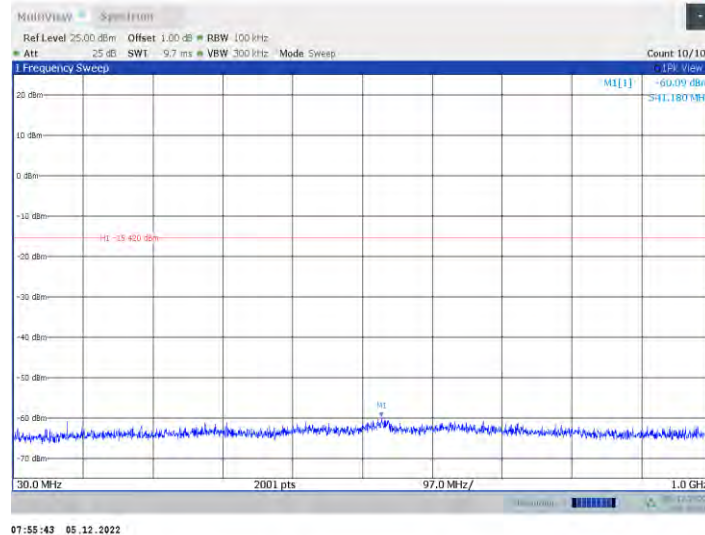
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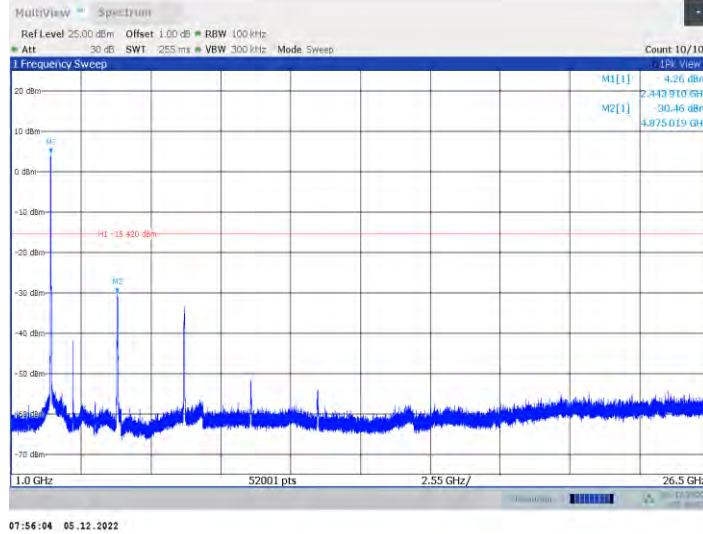
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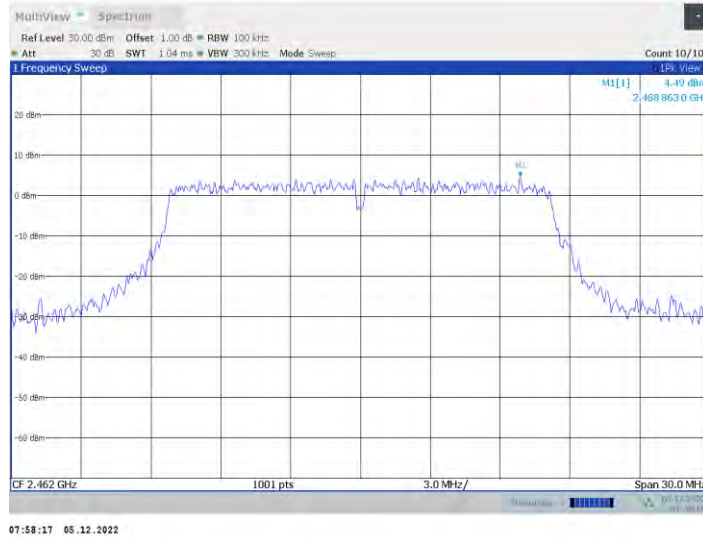
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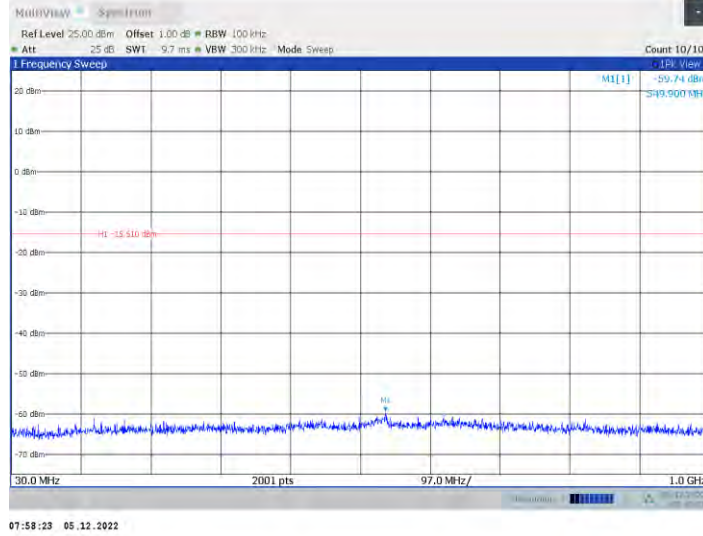


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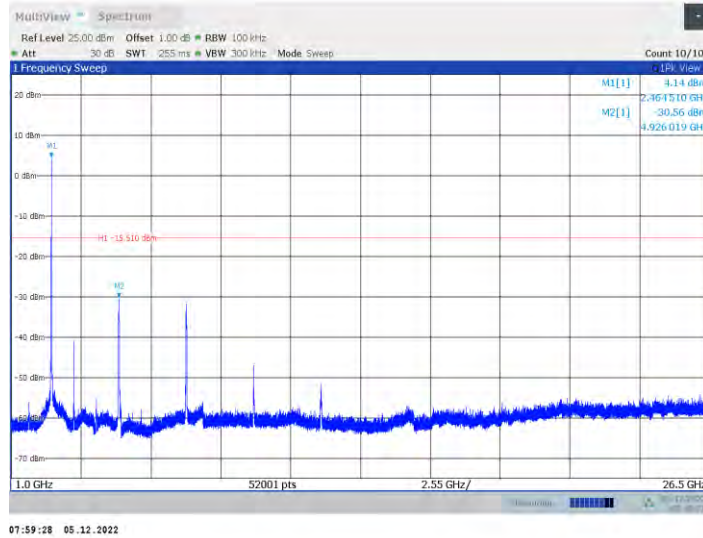
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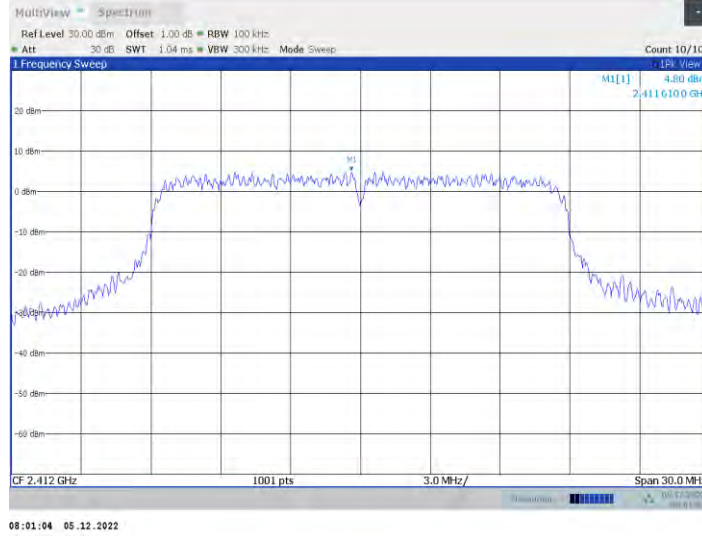


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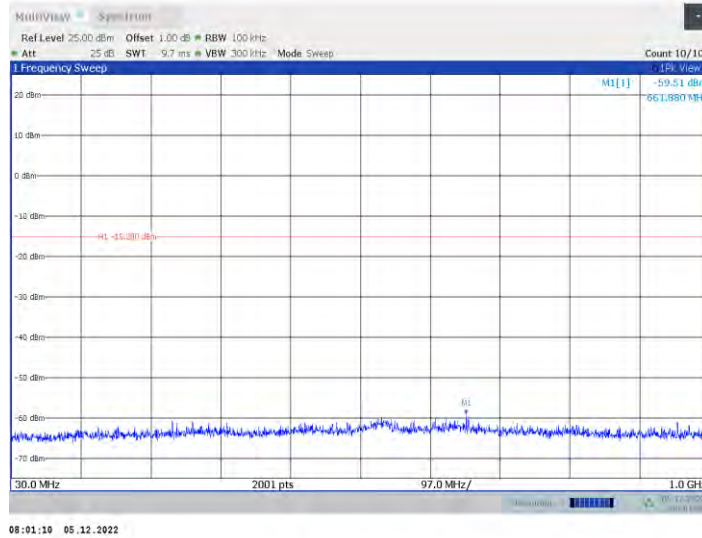
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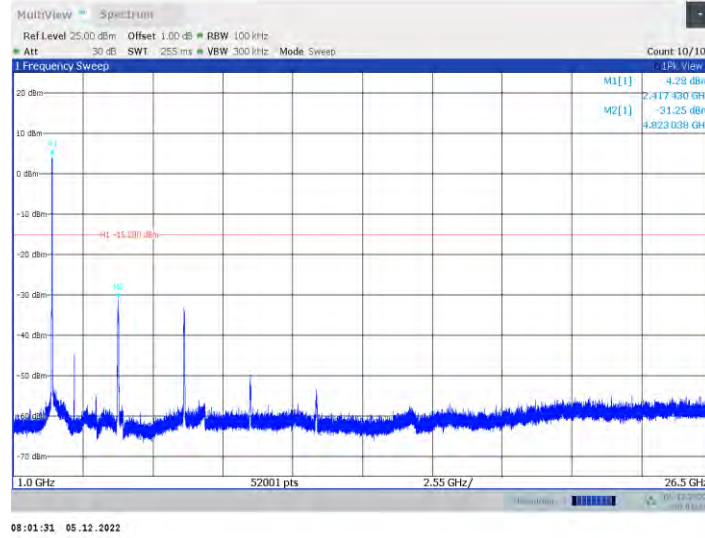
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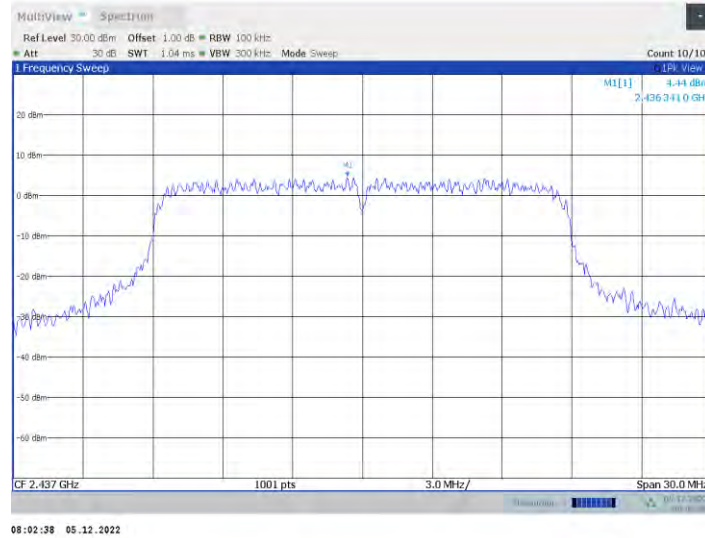
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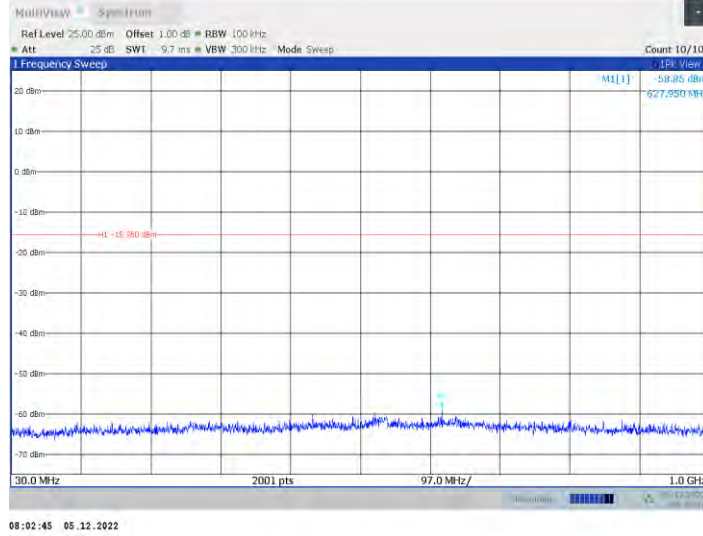
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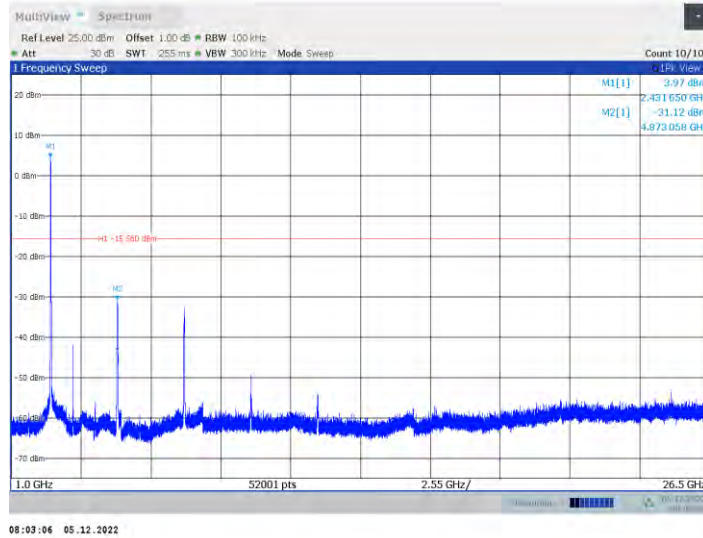
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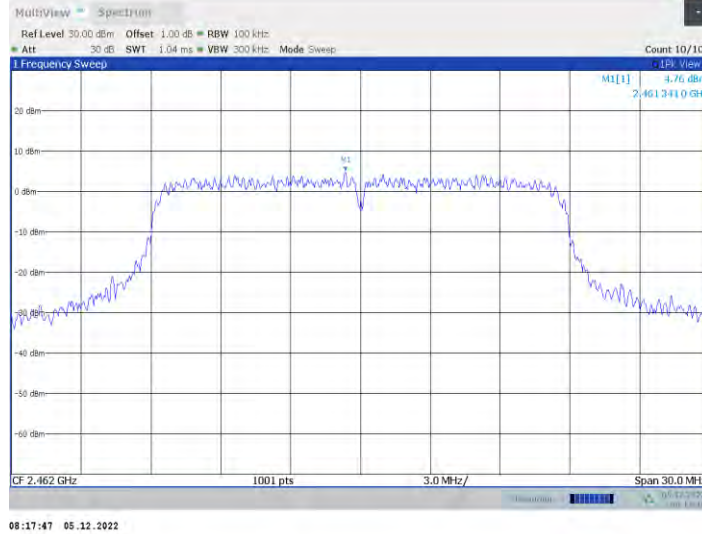
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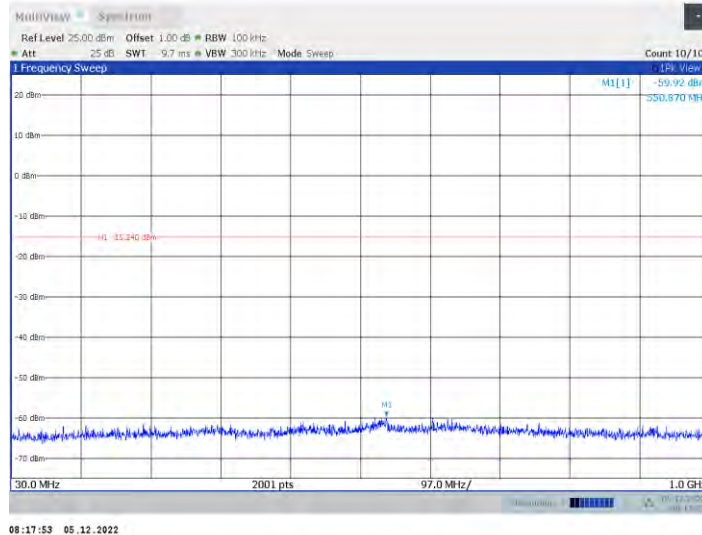
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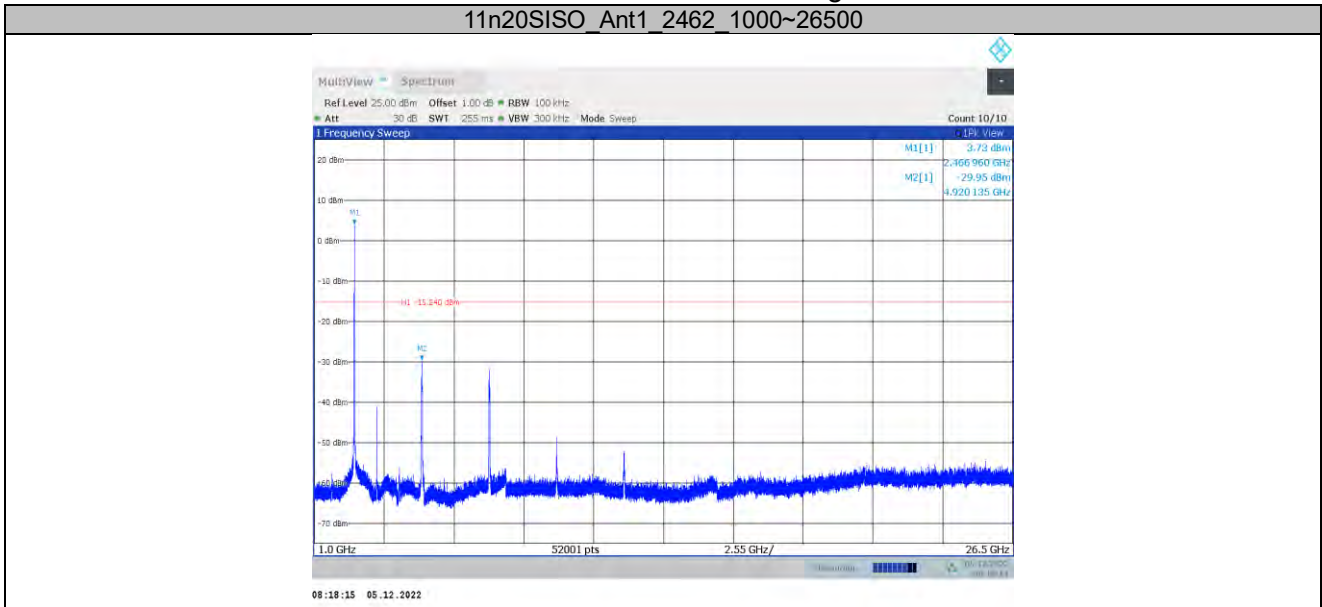
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Report No.: SEWM2209000196RG04

Rev.: 01

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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	20.00	20.00	100.00
11g	Ant1	2412	20.00	20.00	100.00
11n20SISO	Ant1	2412	20.00	20.00	100.00

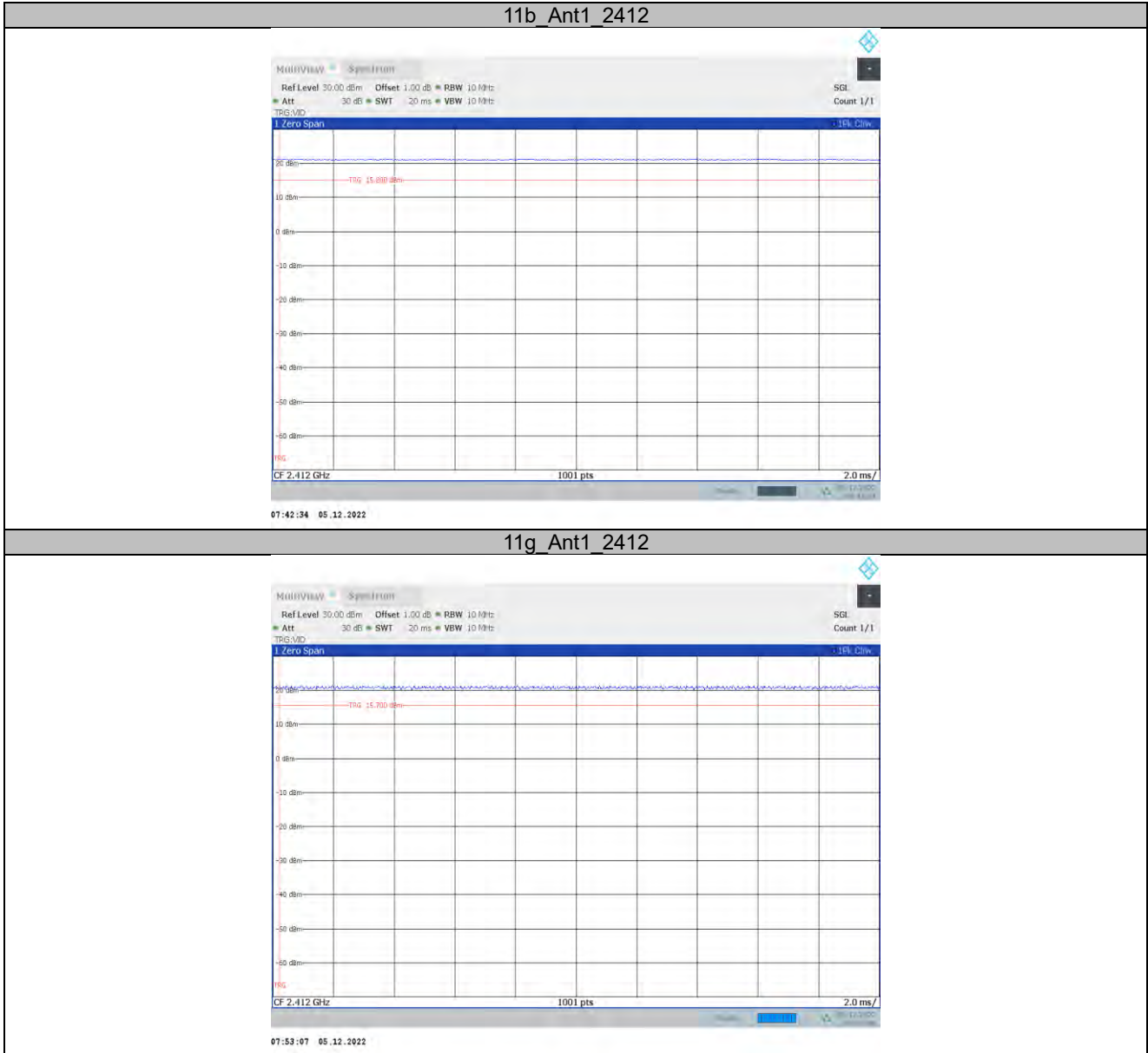


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Test Graphs

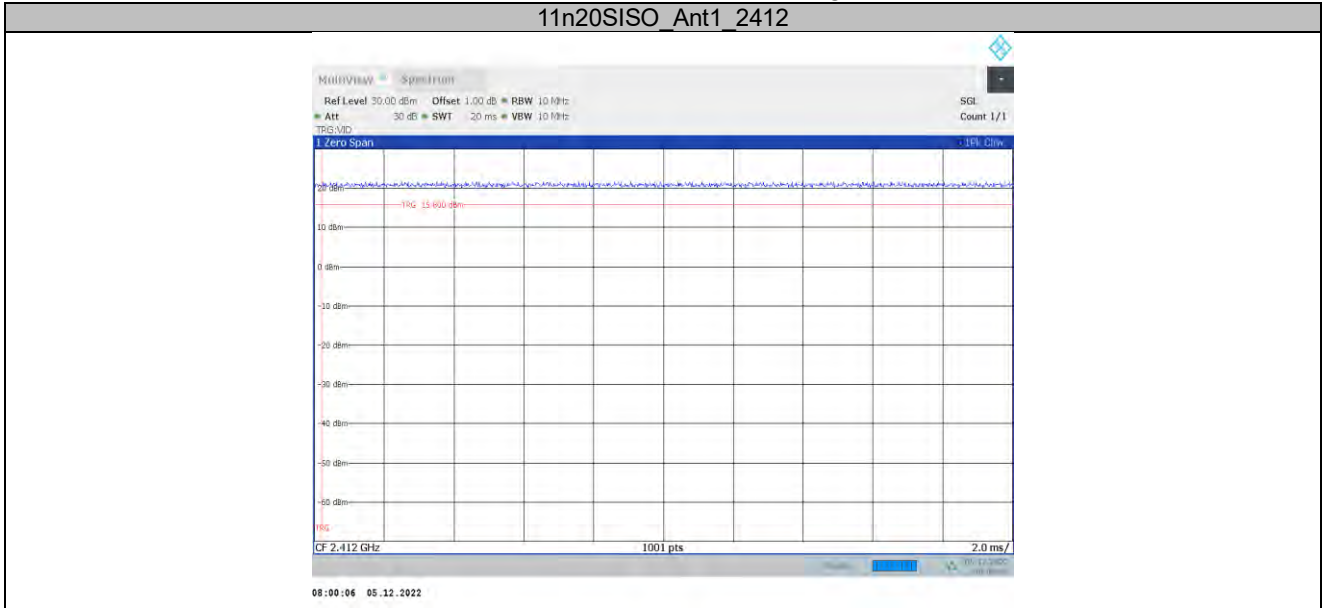


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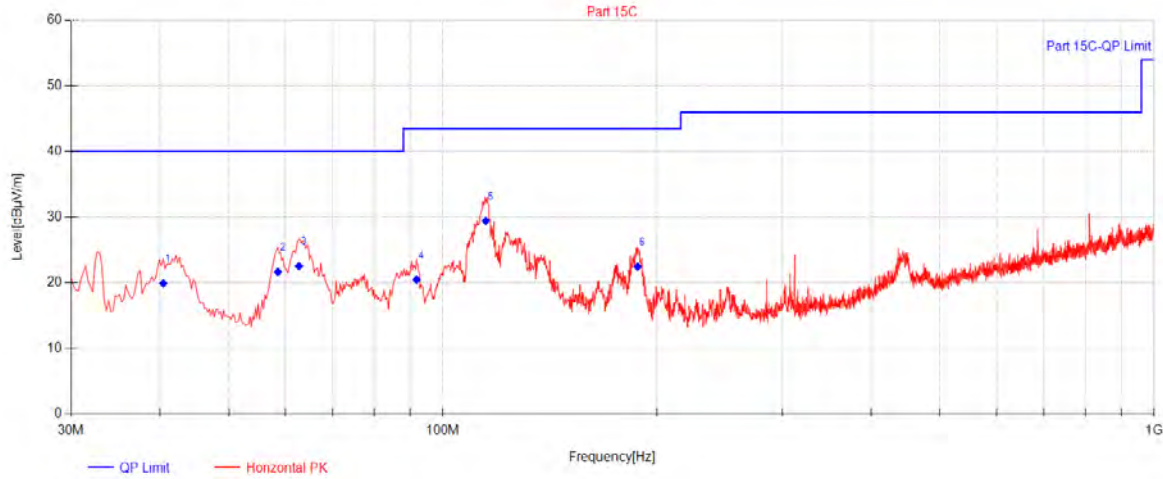
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11b_Channel 01

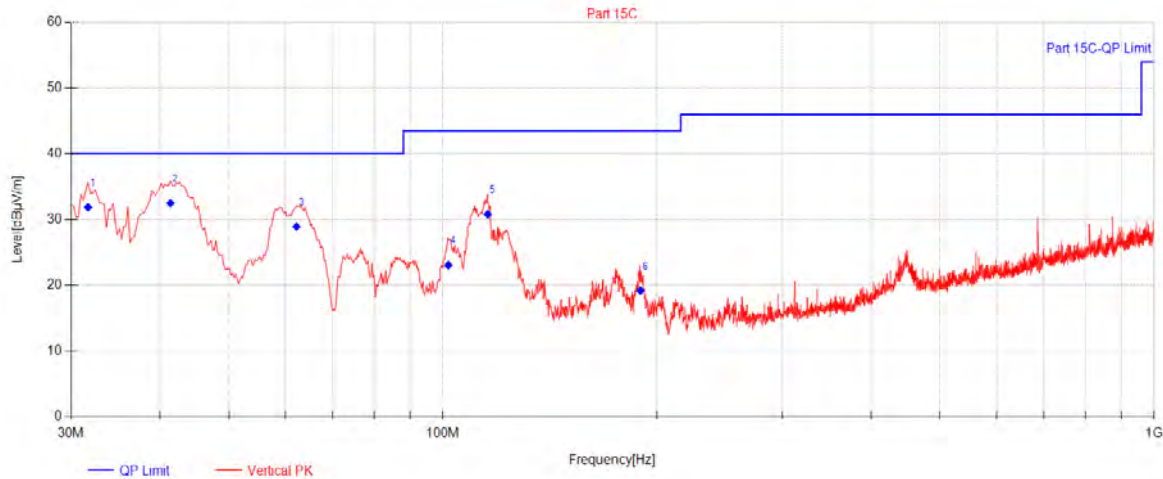


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4275	42.11	-36.26	14.03	19.88	40.00	20.12	145	172	Horizontal
2	58.615	45.16	-36.36	12.86	21.66	40.00	18.34	256	276	Horizontal
3	62.7375	46.75	-36.43	12.22	22.54	40.00	17.46	236	286	Horizontal
4	91.8375	47.19	-36.31	9.57	20.45	43.50	23.05	215	132	Horizontal
5	114.875	53.91	-36.15	11.67	29.43	43.50	14.07	199	112	Horizontal
6	187.8675	45.03	-35.38	12.80	22.45	43.50	21.05	145	268	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.6975	55.21	-36.63	13.28	31.86	40.00	8.14	165	319	Vertical
2	41.3975	54.81	-36.25	13.95	32.51	40.00	7.49	155	227	Vertical
3	62.2525	53.03	-36.43	12.32	28.92	40.00	11.08	195	288	Vertical
4	101.78	48.57	-35.83	10.32	23.07	43.50	20.43	302	154	Vertical
5	115.6025	55.22	-36.15	11.75	30.82	43.50	12.68	177	319	Vertical
6	189.565	42.19	-35.41	12.39	19.17	43.50	24.33	152	174	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:

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB});$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$

2) All channels have been tested, but only the worst case data displayed in this report.



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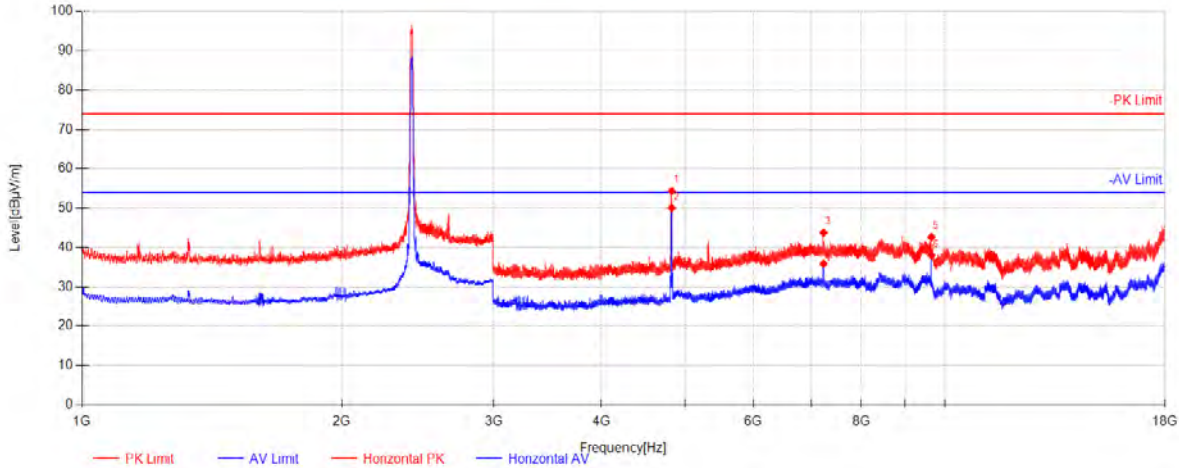
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Transmitter emission Above 1GHz

802.11b_Channel 01



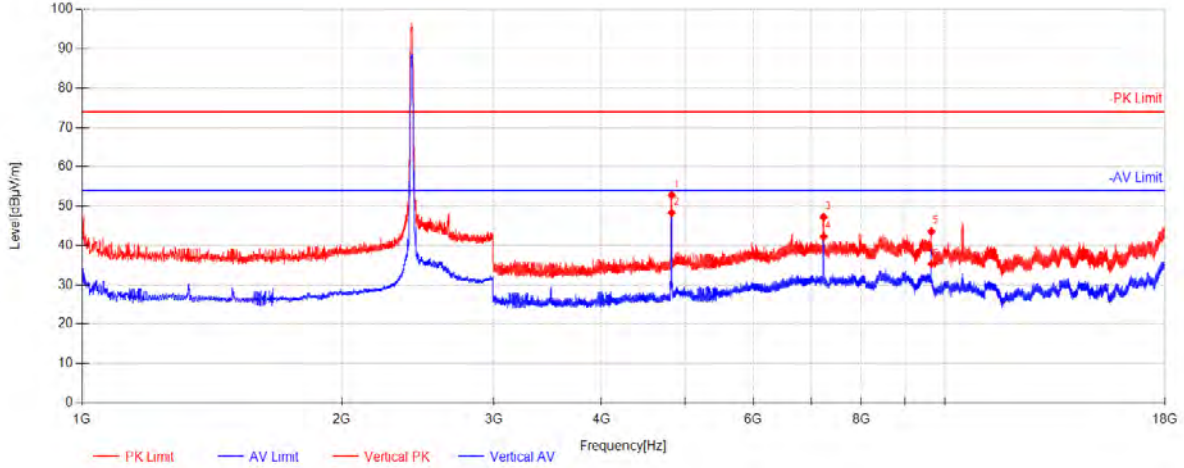
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	67.54	32.39	-45.54	54.39	74.00	19.61	244	54	Horizontal
2	4824.5	63.23	32.39	-45.54	50.08	54.00	3.92	136	54	Horizontal
3	7235	50.74	36.58	-43.54	43.79	74.00	30.21	256	4	Horizontal
4	7236.0000	42.85	36.58	-43.54	35.89	54.00	18.11	195	196	Horizontal
5	9648.0000	43.87	38.39	-39.56	42.70	74.00	31.30	145	112	Horizontal
6	9648.5	39.19	38.39	-39.56	38.02	54.00	15.98	175	85	Horizontal



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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	65.92	32.39	-45.54	52.77	74.00	21.23	248	112	Vertical
2	4824.5	61.47	32.39	-45.54	48.32	54.00	5.68	159	84	Vertical
3	7236.0000	54.14	36.58	-43.54	47.18	74.00	26.82	175	360	Vertical
4	7237.5	49.26	36.58	-43.54	42.30	54.00	11.70	145	359	Vertical
5	9648.0000	44.72	38.39	-39.56	43.55	74.00	30.45	165	28	Vertical
6	9648.0000	36.49	38.39	-39.56	35.32	54.00	18.68	136	281	Vertical

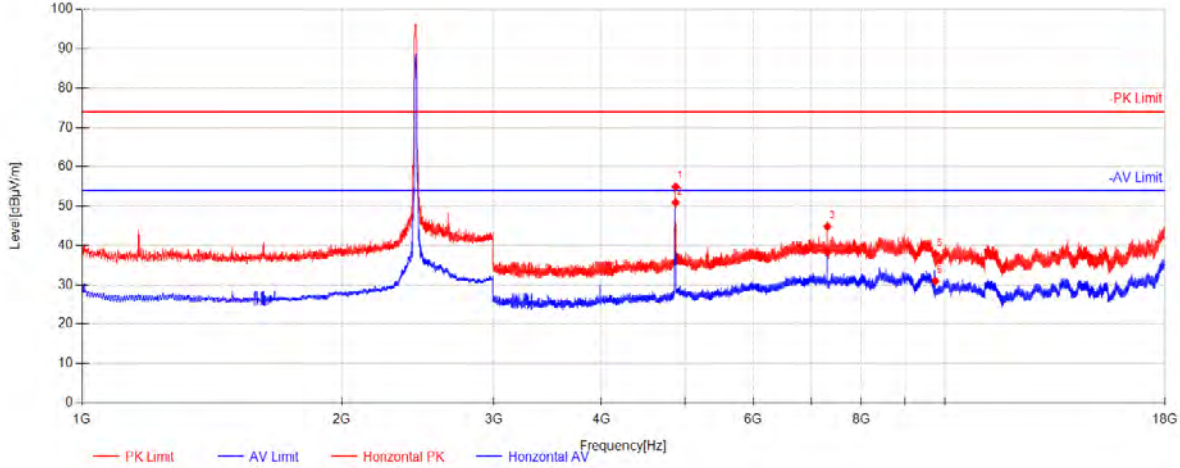


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802.11b_Channel 06



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	4874.0000	68.01	32.53	-45.53	55.00	74.00	19.00	123	55	Horizontal
2	4874.5	63.92	32.53	-45.53	50.92	54.00	3.08	256	55	Horizontal
3	7310.5	51.98	36.54	-43.71	44.80	74.00	29.20	148	197	Horizontal
4	7310.5	45.69	36.54	-43.71	38.51	54.00	15.49	159	197	Horizontal
5	9748.0000	39.06	38.28	-39.46	37.88	74.00	36.12	136	57	Horizontal
6	9748.0000	32.16	38.28	-39.46	30.98	54.00	23.02	256	197	Horizontal

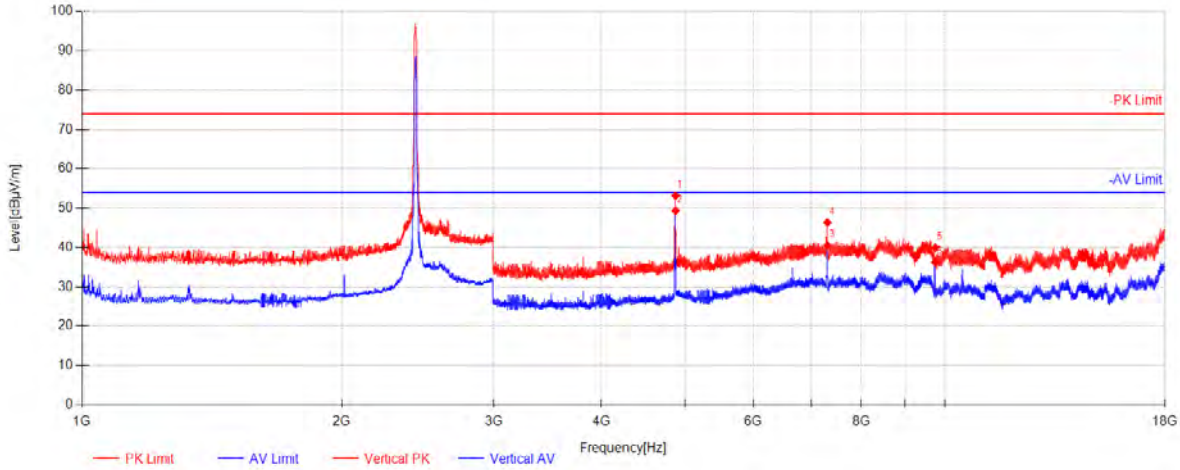


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802.11b_Channel 06



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	4874.0000	66.15	32.53	-45.53	53.14	74.00	20.86	245	86	Vertical
2	4874.5	62.39	32.53	-45.53	49.39	54.00	4.61	159	86	Vertical
3	7310.5	47.67	36.54	-43.71	40.49	54.00	13.51	163	3	Vertical
4	7311.0000	53.52	36.54	-43.71	46.35	74.00	27.65	258	360	Vertical
5	9748.0000	41.11	38.28	-39.46	39.93	74.00	34.07	175	359	Vertical
6	9748.5	37.43	38.28	-39.46	36.25	54.00	17.75	132	360	Vertical

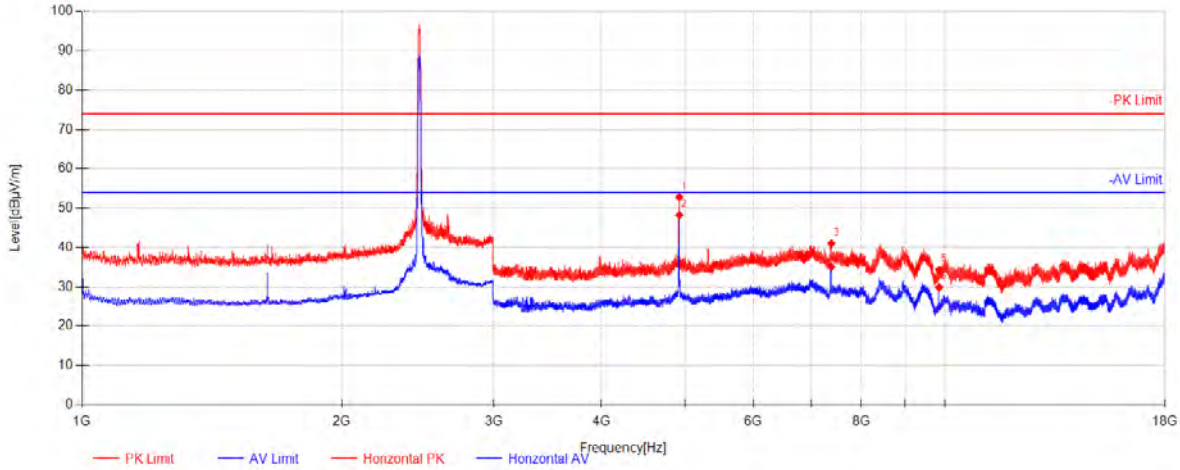


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802.11b_Channel 11



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	4924.0000	65.69	32.67	-45.56	52.80	74.00	21.20	245	55	Horizontal
2	4924.5	61.13	32.67	-45.56	48.24	54.00	5.76	126	255	Horizontal
3	7386.0000	47.99	36.50	-43.46	41.03	74.00	32.97	135	283	Horizontal
4	7387.5	42.07	36.50	-43.45	35.11	54.00	18.89	158	197	Horizontal
5	9848.0000	35.43	38.28	-39.41	34.31	74.00	39.69	196	339	Horizontal
6	9848.5	31.01	38.29	-39.41	29.89	54.00	24.11	175	171	Horizontal

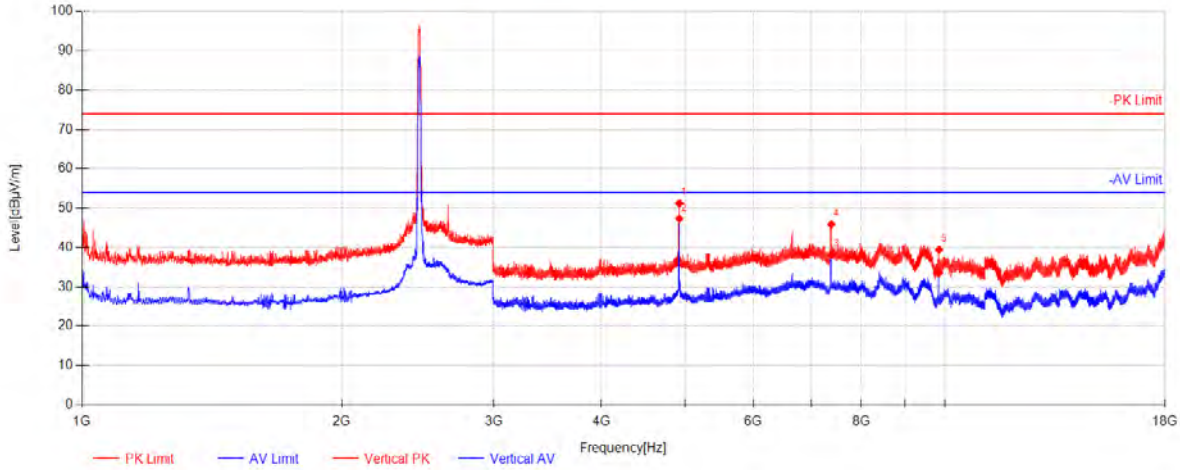


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802.11b_Channel 11



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	4924.0000	64.09	32.67	-45.56	51.20	74.00	22.80	241	87	Vertical
2	4924.5	60.20	32.67	-45.56	47.31	54.00	6.69	152	359	Vertical
3	7386.0000	45.20	36.50	-43.46	38.24	54.00	15.76	153	359	Vertical
4	7386.0000	52.83	36.50	-43.46	45.87	74.00	28.13	166	360	Vertical
5	9848.0000	40.57	38.28	-39.41	39.45	74.00	34.55	192	360	Vertical
6	9848.5	34.65	38.29	-39.41	33.53	54.00	20.47	178	360	Vertical

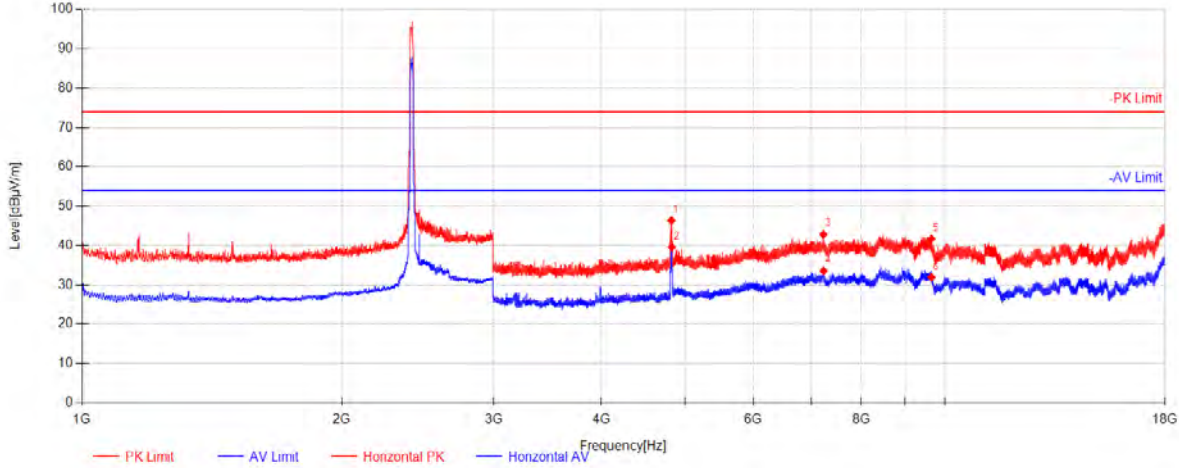


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802.11g_Channel 01



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	4820	59.51	32.38	-45.54	46.35	74.00	27.65	236	84	Horizontal
2	4825.5	52.74	32.39	-45.54	39.59	54.00	14.41	154	84	Horizontal
3	7231.5	49.79	36.58	-43.52	42.85	74.00	31.15	165	336	Horizontal
4	7236.0000	40.50	36.58	-43.54	33.54	54.00	20.46	196	196	Horizontal
5	9648.0000	42.89	38.39	-39.56	41.72	74.00	32.28	142	195	Horizontal
6	9648.0000	33.08	38.39	-39.56	31.91	54.00	22.09	126	28	Horizontal

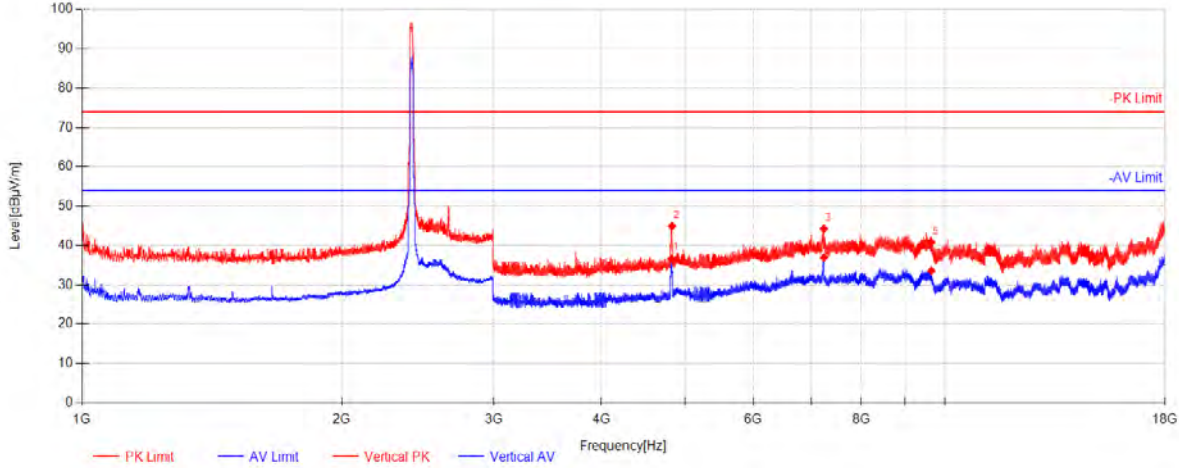


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802.11g_Channel 01



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	4822	49.79	32.38	-45.54	36.63	54.00	17.37	211	4	Vertical
2	4828.5	58.05	32.40	-45.54	44.91	74.00	29.09	142	28	Vertical
3	7240.5	51.24	36.58	-43.55	44.26	74.00	29.74	136	4	Vertical
4	7244	43.96	36.58	-43.57	36.97	54.00	17.03	259	4	Vertical
5	9648.0000	42.01	38.39	-39.56	40.84	74.00	33.16	148	360	Vertical
6	9648.0000	34.74	38.39	-39.56	33.57	54.00	20.43	155	360	Vertical

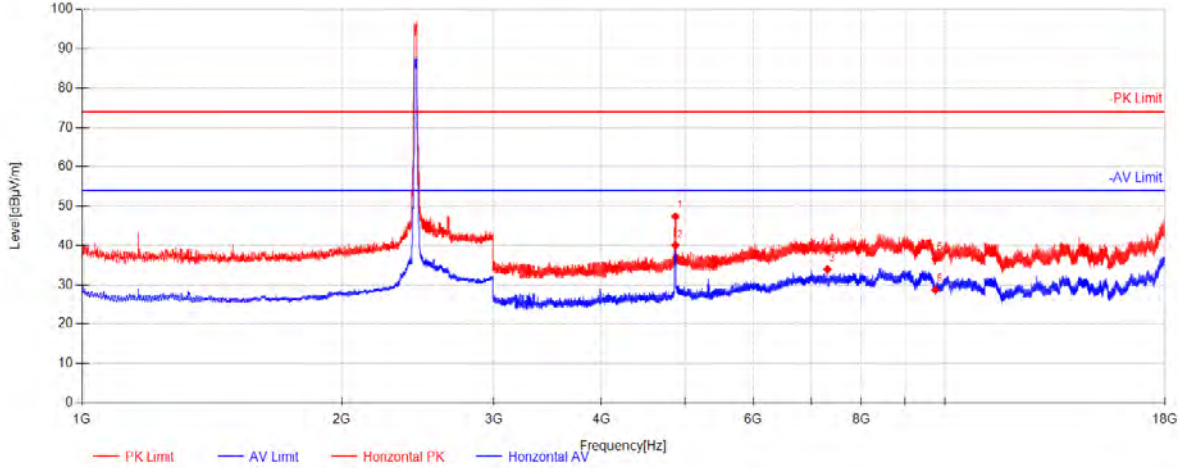


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802.11g_Channel 06



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	4872	60.35	32.52	-45.53	47.34	74.00	26.66	245	86	Horizontal
2	4872.5	53.04	32.52	-45.53	40.03	54.00	13.97	166	86	Horizontal
3	7310.5	41.09	36.54	-43.71	33.91	54.00	20.09	184	203	Horizontal
4	7311.0000	46.20	36.54	-43.71	39.03	74.00	34.97	175	144	Horizontal
5	9748.0000	37.83	38.28	-39.46	36.65	74.00	37.35	142	312	Horizontal
6	9748.0000	29.92	38.28	-39.46	28.74	54.00	25.26	199	170	Horizontal

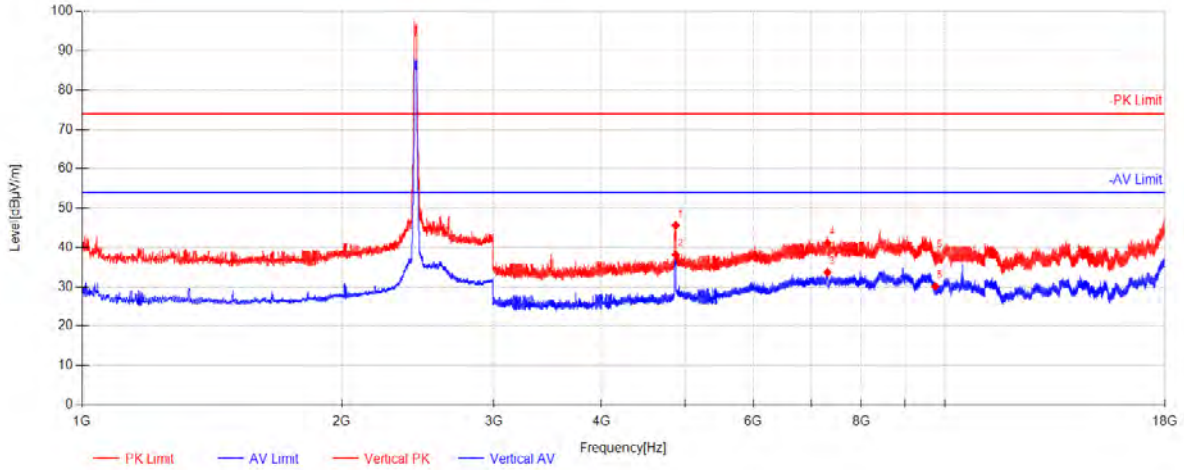


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802.11g_Channel 06



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	4876	58.59	32.53	-45.53	45.59	74.00	28.41	255	359	Vertical
2	4876.5	51.17	32.53	-45.53	38.17	54.00	15.83	142	359	Vertical
3	7311.0000	40.82	36.54	-43.71	33.65	54.00	20.35	126	359	Vertical
4	7311.0000	48.32	36.54	-43.71	41.15	74.00	32.85	132	360	Vertical
5	9748.0000	31.34	38.28	-39.46	30.16	54.00	23.84	199	360	Vertical
6	9748.0000	39.09	38.28	-39.46	37.91	74.00	36.09	185	360	Vertical

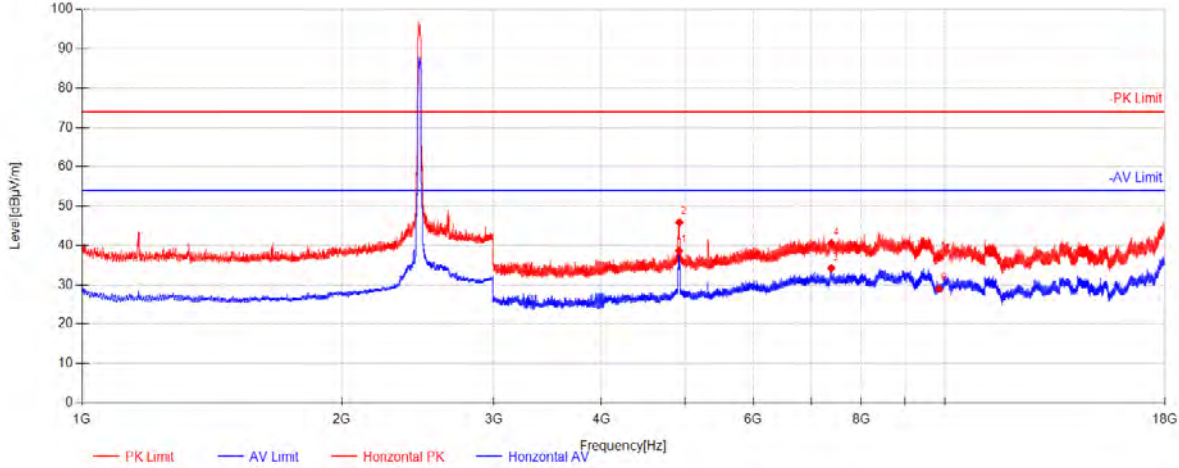


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802.11g_Channel 11



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	4920	51.55	32.66	-45.55	38.65	54.00	15.35	241	84	Horizontal
2	4924.0000	58.73	32.67	-45.56	45.84	74.00	28.16	155	264	Horizontal
3	7384.5	41.18	36.50	-43.46	34.22	54.00	19.78	123	197	Horizontal
4	7386.0000	47.48	36.50	-43.46	40.52	74.00	33.48	165	169	Horizontal
5	9848.0000	38.25	38.28	-39.41	37.13	74.00	36.87	174	29	Horizontal
6	9848.0000	30.12	38.28	-39.41	29.00	54.00	25.00	125	255	Horizontal

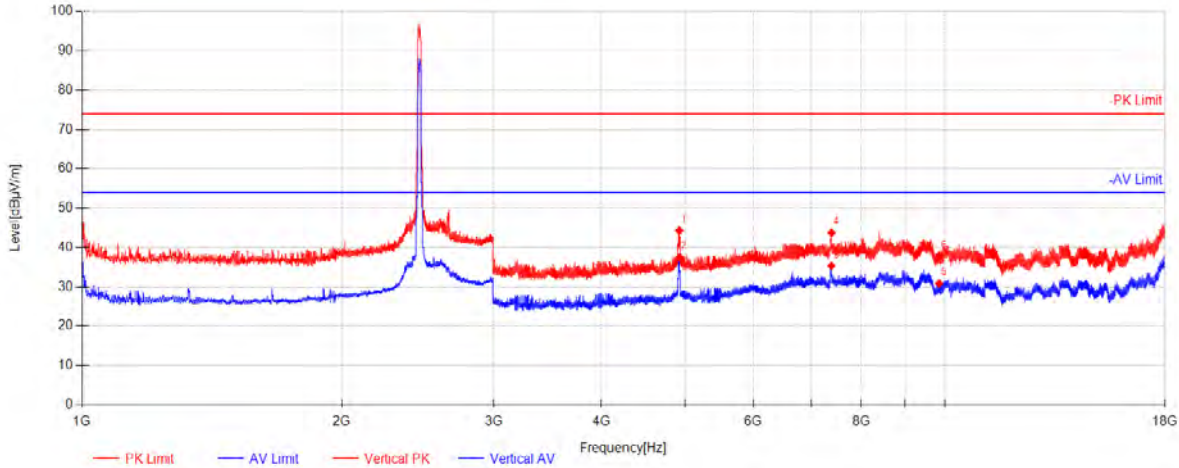


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802.11g_Channel 11



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	4924.0000	57.17	32.67	-45.56	44.28	74.00	29.72	213	85	Vertical
2	4927.5	50.39	32.68	-45.56	37.51	54.00	16.49	256	360	Vertical
3	7388	42.29	36.50	-43.45	35.34	54.00	18.66	145	4	Vertical
4	7391.5	50.69	36.49	-43.44	43.75	74.00	30.25	186	360	Vertical
5	9848.0000	32.00	38.28	-39.41	30.88	54.00	23.12	192	283	Vertical
6	9848.0000	38.99	38.28	-39.41	37.87	74.00	36.13	174	342	Vertical

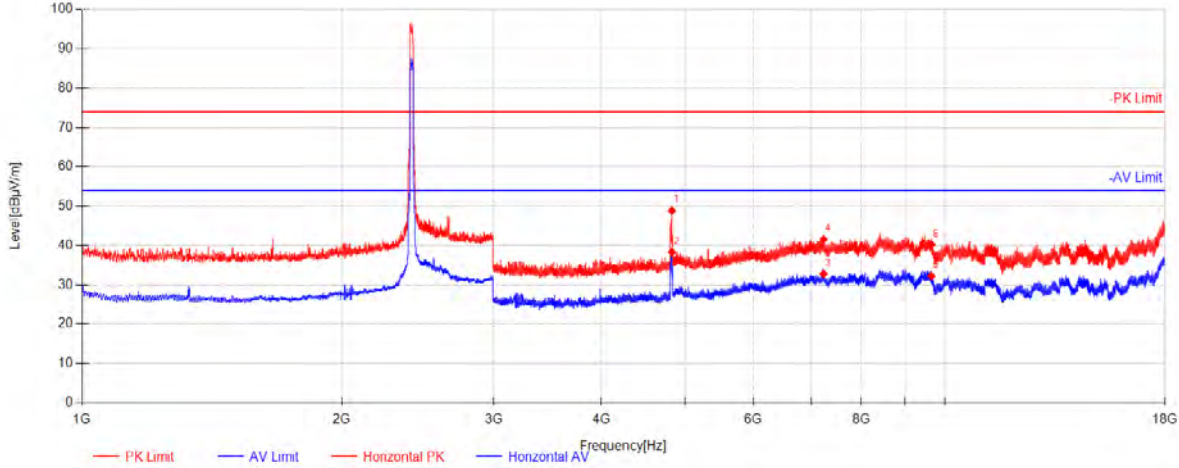


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802.11n20_Channel 01



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	4826.5	62.00	32.39	-45.54	48.86	74.00	25.14	245	84	Horizontal
2	4828	51.47	32.40	-45.54	38.33	54.00	15.67	126	84	Horizontal
3	7236.0000	39.73	36.58	-43.54	32.77	54.00	21.23	196	4	Horizontal
4	7236.0000	48.52	36.58	-43.54	41.56	74.00	32.44	258	144	Horizontal
5	9648.0000	33.43	38.39	-39.56	32.26	54.00	21.74	175	173	Horizontal
6	9648.0000	41.38	38.39	-39.56	40.21	74.00	33.79	143	173	Horizontal

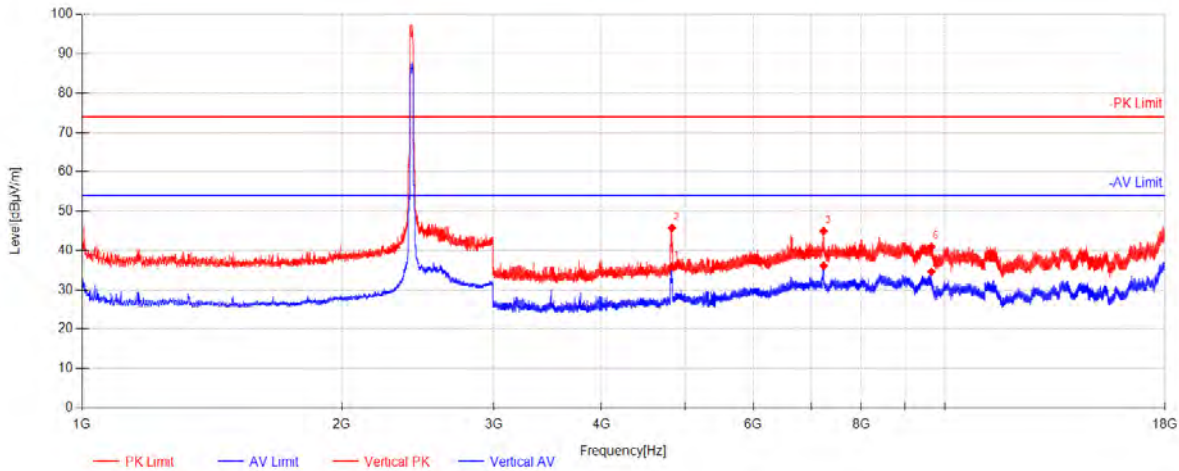


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802.11n20_Channel 01



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	49.07	32.39	-45.54	35.92	54.00	18.08	175	84	Vertical
2	4826.5	58.84	32.39	-45.54	45.70	74.00	28.30	155	145	Vertical
3	7236.0000	51.87	36.58	-43.54	44.91	74.00	29.09	241	4	Vertical
4	7239	43.15	36.58	-43.55	36.18	54.00	17.82	198	360	Vertical
5	9648.0000	35.76	38.39	-39.56	34.59	54.00	19.41	126	28	Vertical
6	9648.0000	42.12	38.39	-39.56	40.95	74.00	33.05	258	360	Vertical

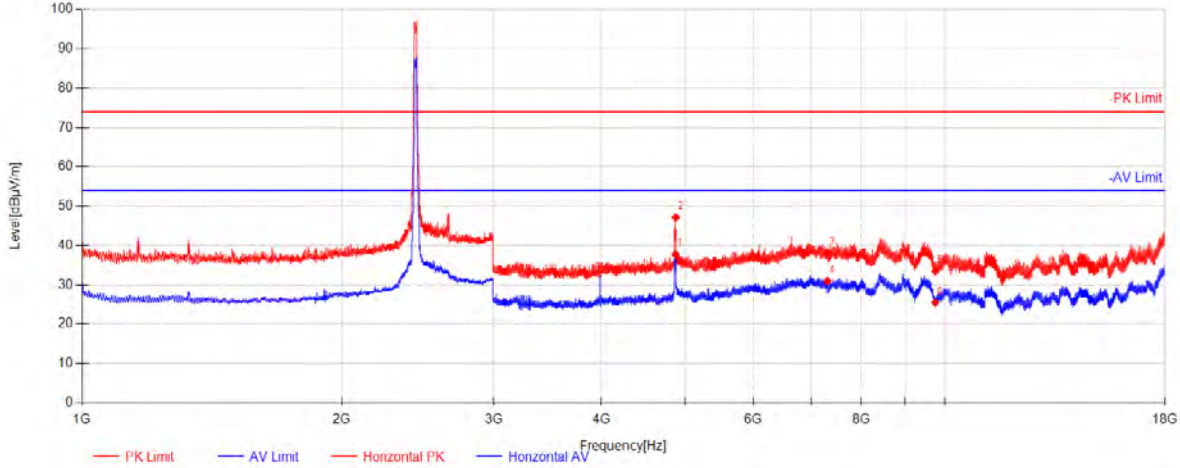


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802.11n20_Channel 06



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	4874.0000	50.75	32.53	-45.53	37.74	54.00	16.26	169	86	Horizontal
2	4877.5	60.13	32.54	-45.53	47.13	74.00	26.87	236	86	Horizontal
3	7311.0000	45.34	36.54	-43.71	38.17	74.00	35.83	251	115	Horizontal
4	7311.0000	38.15	36.54	-43.71	30.98	54.00	23.02	128	201	Horizontal
5	9748.0000	34.67	38.28	-39.46	33.49	74.00	40.51	145	58	Horizontal
6	9748.0000	26.68	38.28	-39.46	25.50	54.00	28.50	198	314	Horizontal

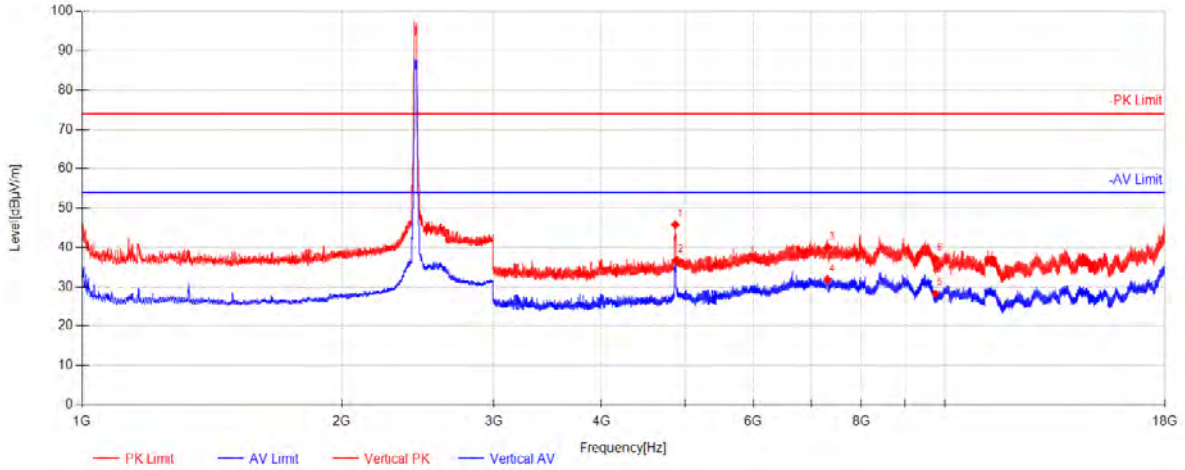


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802.11n20_Channel 06



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	4870.5	58.83	32.52	-45.53	45.81	74.00	28.19	245	14	Vertical
2	4883	49.72	32.55	-45.53	36.74	54.00	17.26	254	340	Vertical
3	7311.0000	47.20	36.54	-43.71	40.03	74.00	33.97	136	255	Vertical
4	7311.0000	38.98	36.54	-43.71	31.81	54.00	22.19	256	360	Vertical
5	9748.0000	29.48	38.28	-39.46	28.30	54.00	25.70	291	23	Vertical
6	9748.0000	38.37	38.28	-39.46	37.19	74.00	36.81	144	283	Vertical

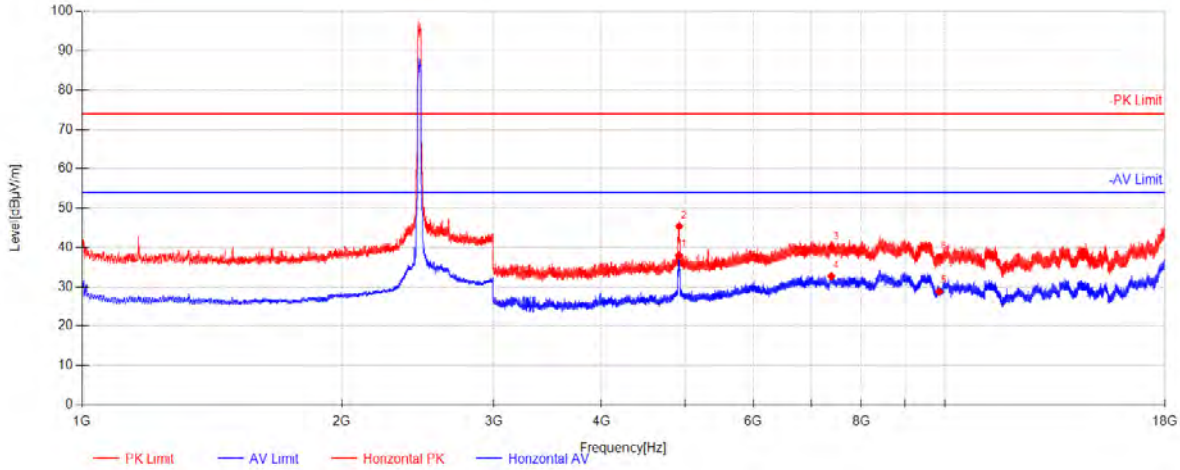


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802.11n20_Channel 11



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	4919.5	50.89	32.65	-45.55	37.99	54.00	16.01	254	84	Horizontal
2	4922	58.27	32.66	-45.55	45.38	74.00	28.62	156	84	Horizontal
3	7386.0000	47.00	36.50	-43.46	40.04	74.00	33.96	136	228	Horizontal
4	7386.0000	39.65	36.50	-43.46	32.69	54.00	21.31	259	84	Horizontal
5	9848.0000	29.92	38.28	-39.41	28.80	54.00	25.20	175	255	Horizontal
6	9848.0000	38.66	38.28	-39.41	37.54	74.00	36.46	149	198	Horizontal



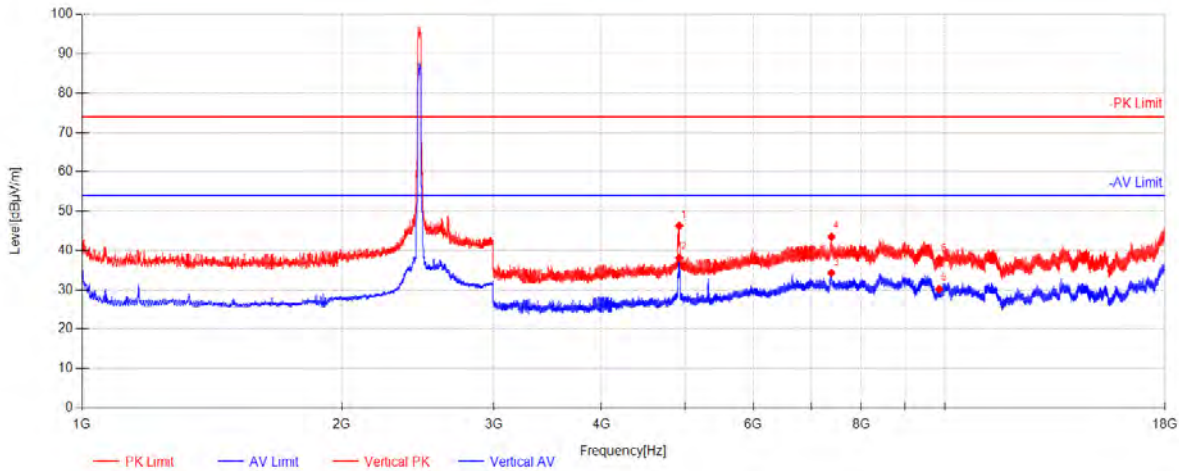
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802.11n20_Channel 11



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	4922	59.12	32.66	-45.55	46.23	74.00	27.77	248	85	Vertical
2	4923.5	51.03	32.67	-45.56	38.14	54.00	15.86	159	85	Vertical
3	7386.0000	41.23	36.50	-43.46	34.27	54.00	19.73	136	4	Vertical
4	7389.5	50.42	36.50	-43.45	43.47	74.00	30.53	256	114	Vertical
5	9848.0000	31.35	38.28	-39.41	30.23	54.00	23.77	172	4	Vertical
6	9848.0000	38.98	38.28	-39.41	37.86	74.00	36.14	143	4	Vertical

Remark:

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

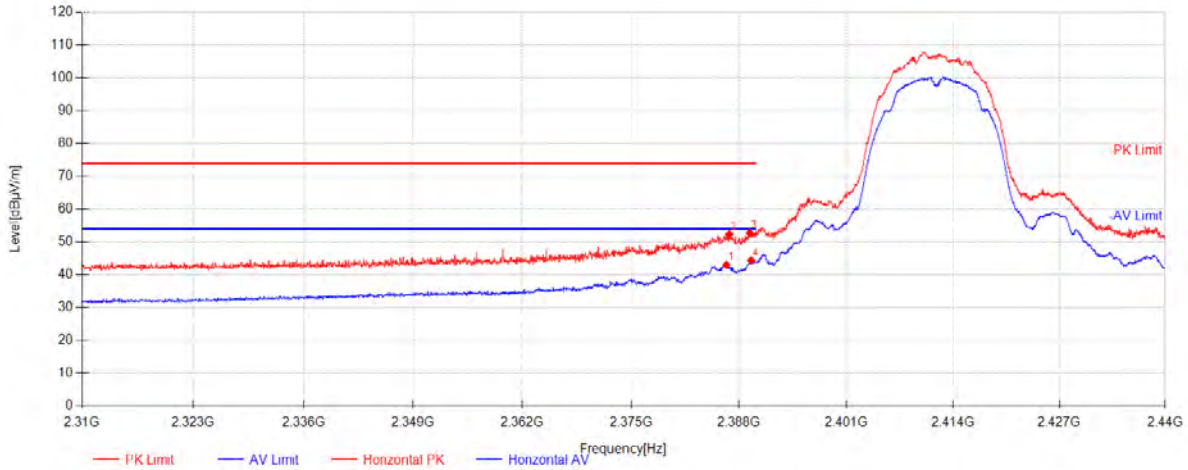


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Restricted bands around fundamental frequency

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	2386.4833	39.16	27.43	-23.57	43.02	54.00	10.98	145	52	Horizontal
2	2386.83	48.50	27.43	-23.57	52.36	74.00	21.64	145	52	Horizontal
3	2389.3	48.86	27.43	-23.57	52.72	74.00	21.28	145	52	Horizontal
4	2389.4733	40.54	27.43	-23.57	44.40	54.00	9.60	145	52	Horizontal

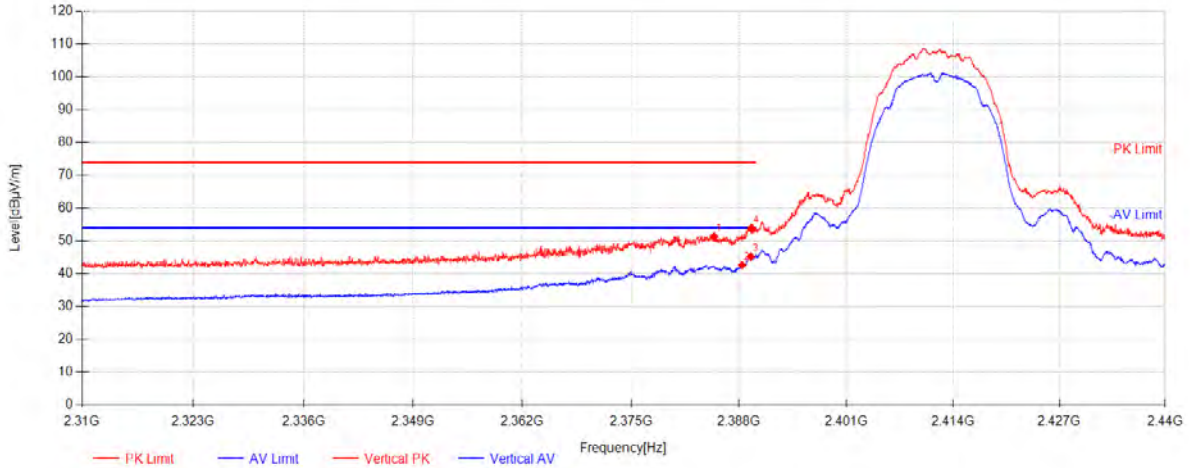


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802.11b_Channel 01



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	2385.01	47.51	27.43	-23.57	51.37	74.00	22.63	185	77	Vertical
2	2388.39	38.79	27.43	-23.57	42.65	54.00	11.35	185	77	Vertical
3	2389.43	41.38	27.43	-23.57	45.24	54.00	8.76	185	77	Vertical
4	2389.5167	50.12	27.43	-23.57	53.98	74.00	20.02	185	77	Vertical

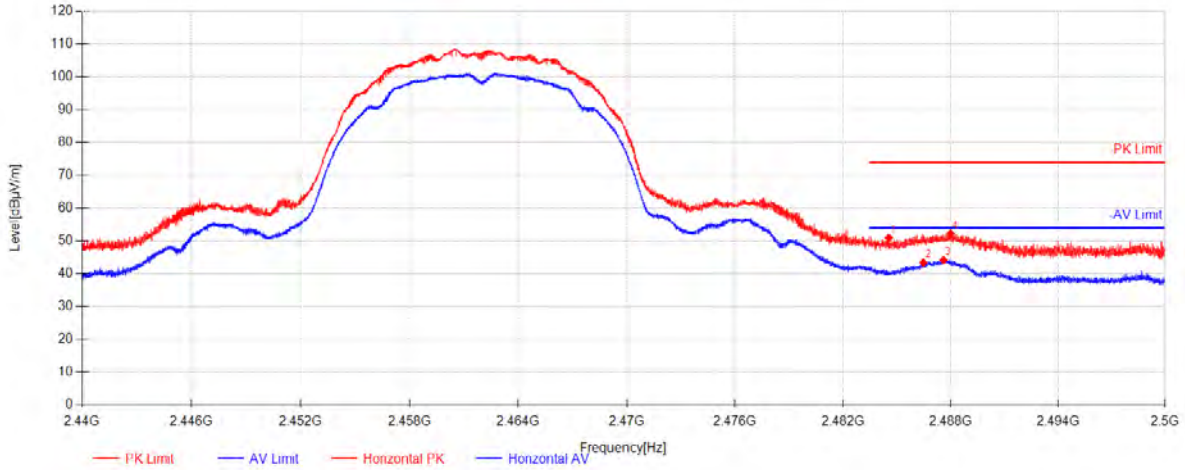


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802.11b_Channel 11



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	2484.5575	46.83	27.72	-23.54	51.00	74.00	23.00	254	57	Horizontal
2	2486.485	39.23	27.73	-23.54	43.41	54.00	10.59	254	57	Horizontal
3	2487.6025	39.99	27.73	-23.54	44.18	54.00	9.82	254	57	Horizontal
4	2488	48.10	27.73	-23.54	52.29	74.00	21.71	254	57	Horizontal

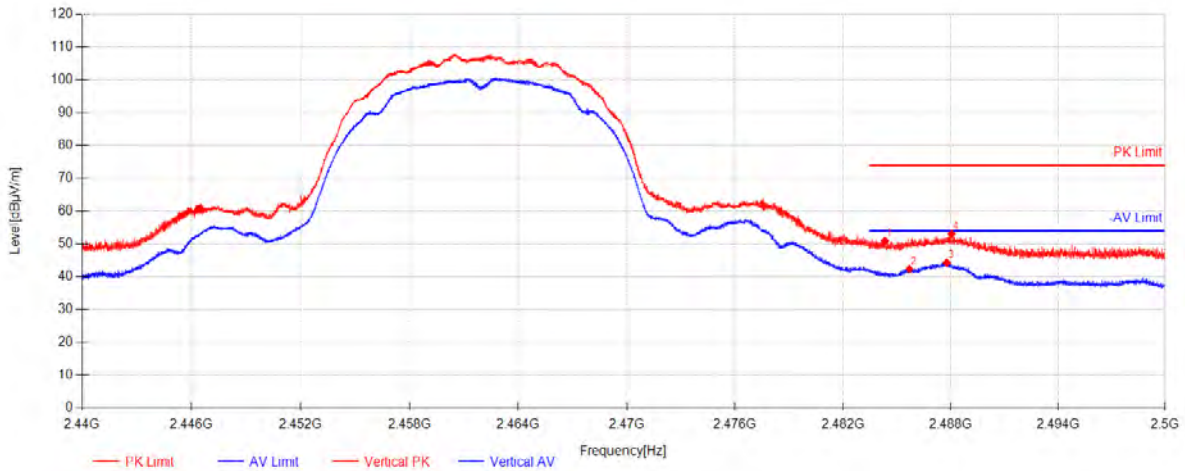


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802.11b_Channel 11



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	2484.34	46.81	27.72	-23.54	50.98	74.00	23.02	158	80	Vertical
2	2485.705	38.18	27.72	-23.54	42.36	54.00	11.64	158	80	Vertical
3	2487.79	40.11	27.73	-23.54	44.30	54.00	9.70	158	80	Vertical
4	2488.0525	48.86	27.73	-23.54	53.05	74.00	20.95	158	80	Vertical

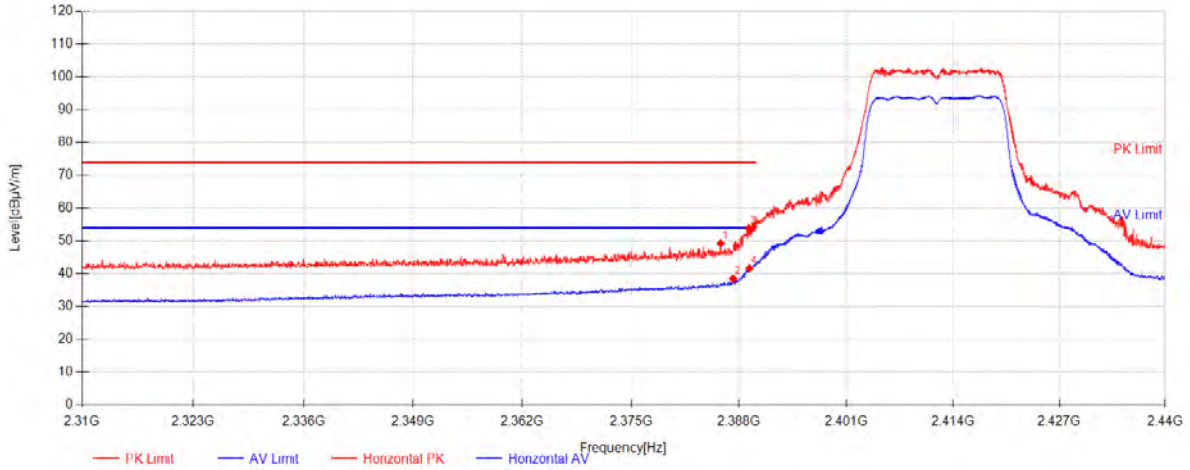


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802.11g_Channel 01



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	2385.79	45.37	27.43	-23.57	49.23	74.00	24.77	298	46	Horizontal
2	2387.3067	34.61	27.43	-23.57	38.47	54.00	15.53	298	46	Horizontal
3	2389.17	49.98	27.43	-23.57	53.84	74.00	20.16	298	46	Horizontal
4	2389.2567	37.78	27.43	-23.57	41.64	54.00	12.36	298	46	Horizontal

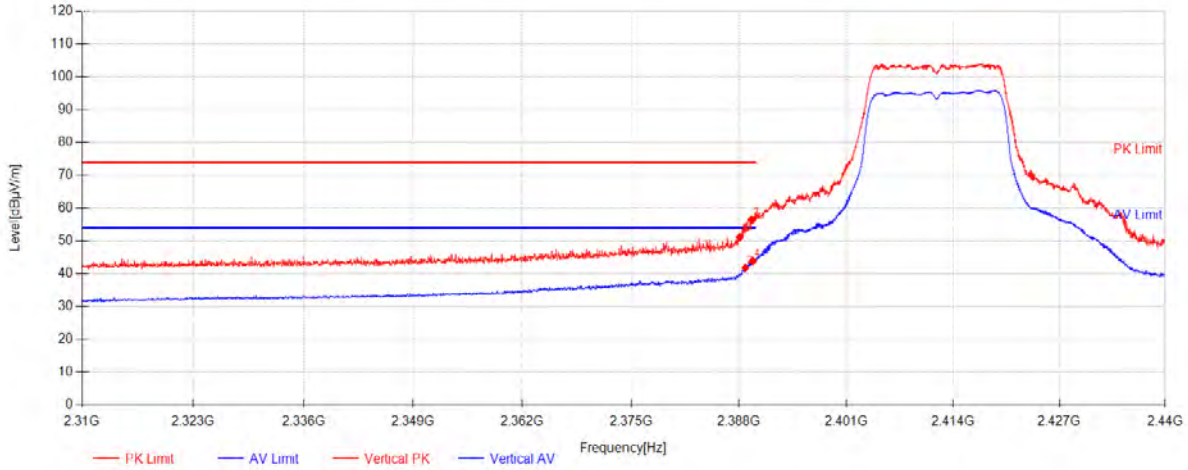


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802.11g_Channel 01



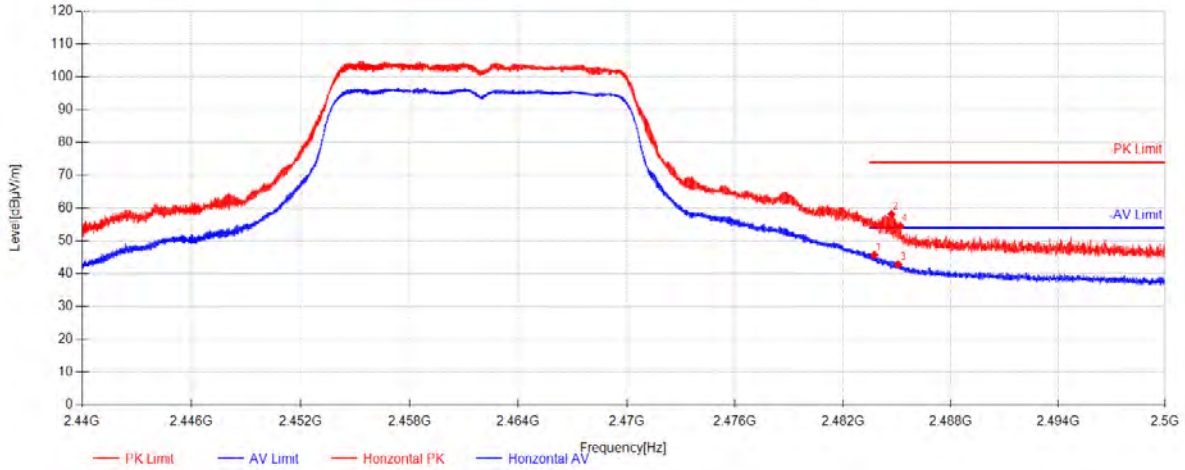
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.0867	47.35	27.43	-23.57	51.21	74.00	22.79	210	74	Vertical
2	2388.78	37.96	27.43	-23.57	41.82	54.00	12.18	210	74	Vertical
3	2389.5167	52.56	27.43	-23.57	56.42	74.00	17.58	210	74	Vertical
4	2389.69	40.06	27.43	-23.57	43.92	54.00	10.08	210	74	Vertical



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802.11g_Channel 11



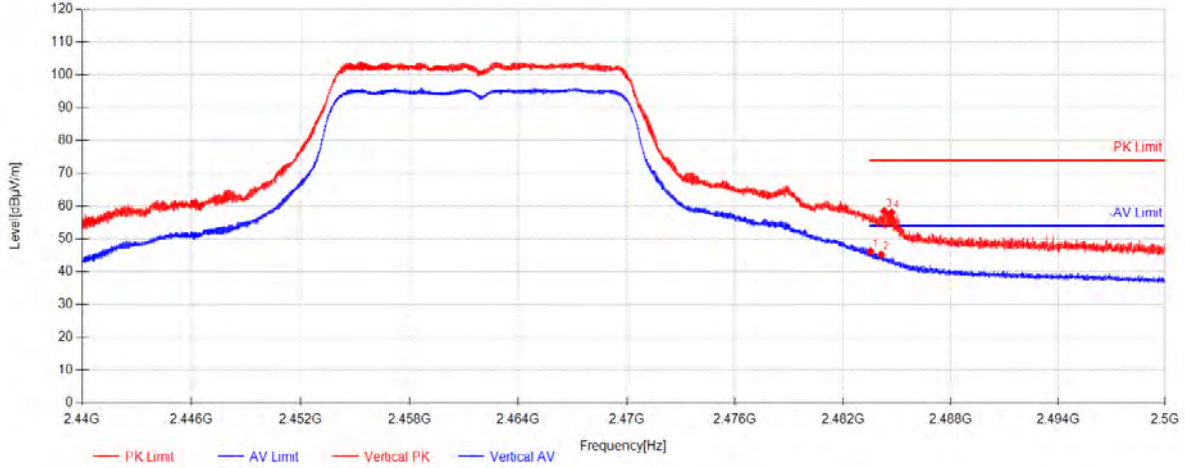
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7475	41.53	27.72	-23.54	45.70	54.00	8.30	230	43	Horizontal
2	2484.7075	53.99	27.72	-23.54	58.16	74.00	15.84	230	43	Horizontal
3	2485.0825	38.68	27.72	-23.54	42.86	54.00	11.14	230	43	Horizontal
4	2485.195	50.30	27.72	-23.54	54.48	74.00	19.52	230	43	Horizontal



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802.11g_Channel 11



Data List										
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1	2483.53	42.03	27.72	-23.54	46.20	54.00	7.80	198	83	Vertical
2	2484.1225	41.07	27.72	-23.54	45.24	54.00	8.76	198	83	Vertical
3	2484.3025	54.32	27.72	-23.54	58.49	74.00	15.51	198	83	Vertical
4	2484.715	53.87	27.72	-23.54	58.04	74.00	15.96	198	83	Vertical

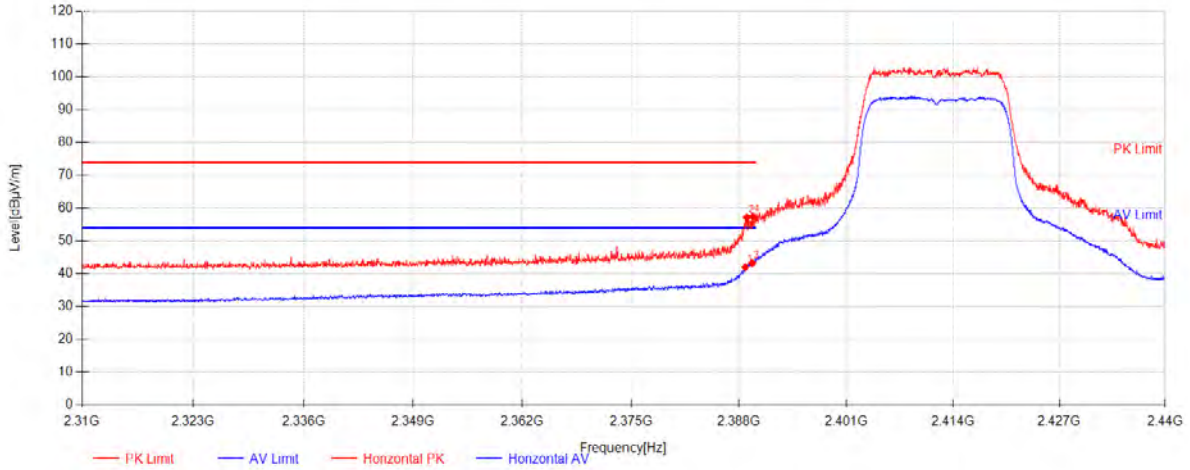


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802.11n20_Channel 01



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	2388.78	38.12	27.43	-23.57	41.98	54.00	12.02	211	45	Horizontal
2	2388.9533	53.32	27.43	-23.57	57.18	74.00	16.82	211	45	Horizontal
3	2389.6033	39.41	27.43	-23.57	43.27	54.00	10.73	211	45	Horizontal
4	2389.6467	53.52	27.43	-23.57	57.38	74.00	16.62	211	45	Horizontal

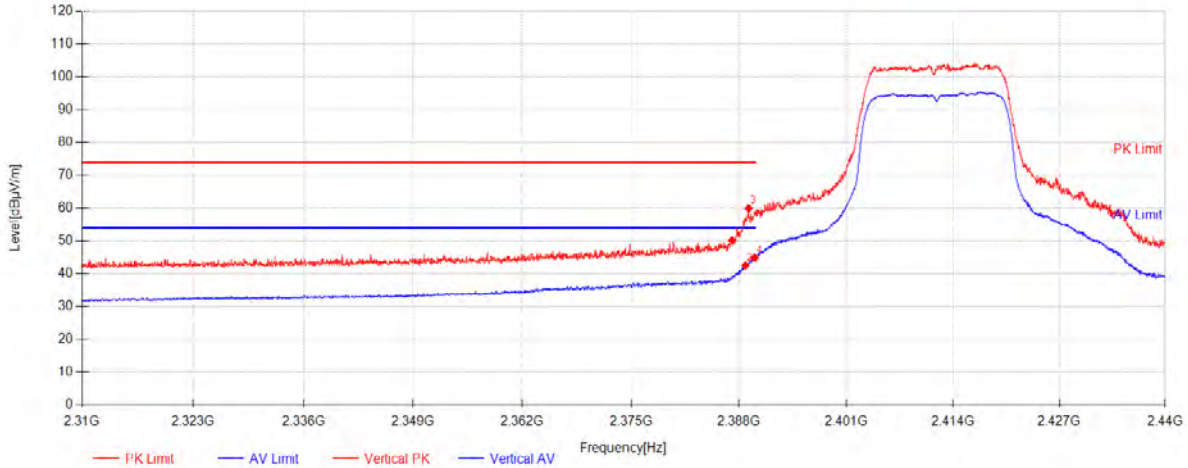


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802.11n20_Channel 01



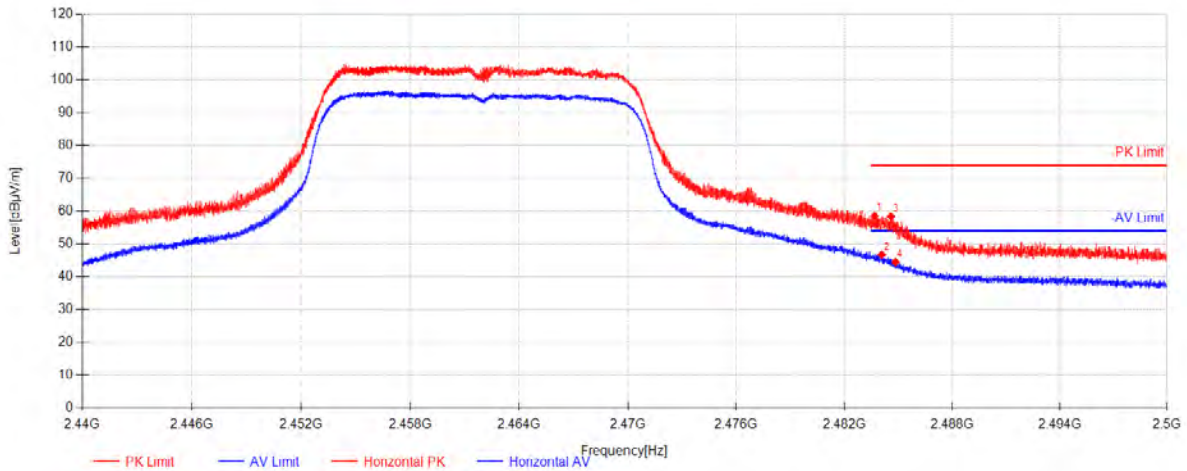
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.1767	46.34	27.43	-23.57	50.20	74.00	23.80	211	85	Vertical
2	2388.78	38.67	27.43	-23.57	42.53	54.00	11.47	211	85	Vertical
3	2389.17	56.09	27.43	-23.57	59.95	74.00	14.05	211	85	Vertical
4	2389.9067	41.04	27.43	-23.57	44.90	54.00	9.10	211	85	Vertical



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802.11n20_Channel 11



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	2483.68	54.41	27.72	-23.54	58.58	74.00	15.42	255	44	Horizontal
2	2484.085	42.56	27.72	-23.54	46.73	54.00	7.27	255	44	Horizontal
3	2484.595	54.26	27.72	-23.54	58.43	74.00	15.57	255	44	Horizontal
4	2484.8425	40.35	27.72	-23.54	44.53	54.00	9.47	255	44	Horizontal

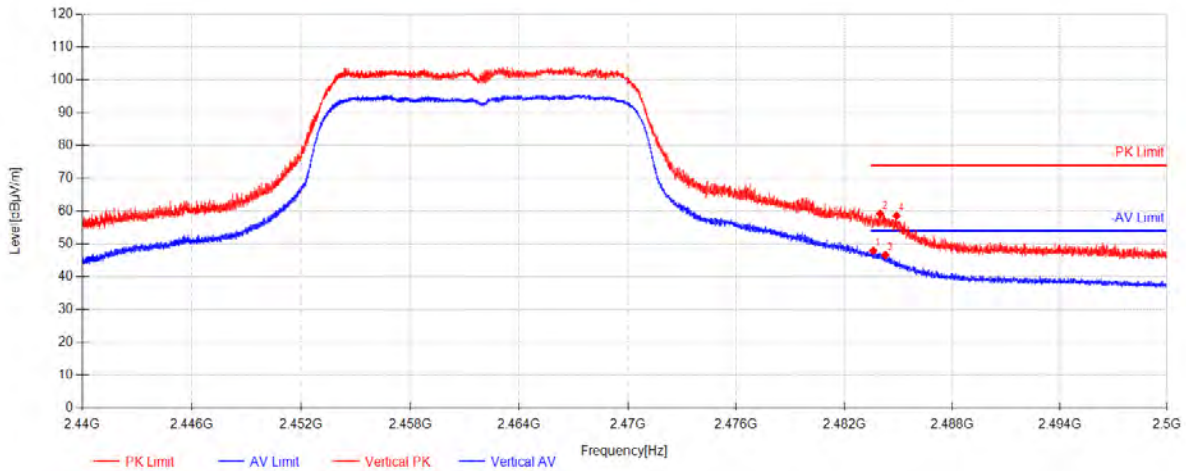


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802.11n20_Channel 11



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	2483.6125	43.70	27.72	-23.54	47.87	54.00	6.13	136	85	Vertical
2	2483.995	55.08	27.72	-23.54	59.25	74.00	14.75	136	85	Vertical
3	2484.28	42.47	27.72	-23.54	46.64	54.00	7.36	136	85	Vertical
4	2484.91	54.44	27.72	-23.54	58.62	74.00	15.38	136	85	Vertical

Remark:

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

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB});$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

---End of Report---



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