

TEST REPORT

Application No.: SEWM2305000160RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 23076RA4BR, XIG03
Trade Mark: Redmi
FCC ID: 2AFZZRA4BR
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/26
Date of Test: 2023/04/28 to 2023/05/20 (for original report SEWM2304000137RG05)
 2023/05/12 to 2023/06/07 (for new report SEWM2305000160RG05)
Date of Issue: 2023/06/12

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

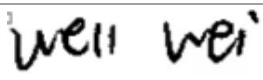


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/12		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 C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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Report No.: SEWM2305000160RG05
Rev.: 01
Page: 4 of 120

Remark:

This test report (Report No.: SEWM2305000160RG05 issue on 2023/06/12) is based on the original test report (Report No.: SEWM2304000137RG05 issue on 2023/05/29).

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 only the items of Power and AC Power Line Conducted Emission were tested, Transmitter emission Above 1GHz and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWM2304000137RG05 issue on 2023/05/29 and other test data in this report are based on the previous report with report number SEWM2304000137RG05 issue on 2023/05/29.



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
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Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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:	Mobile Phone	
Model No.:	23076RA4BR, XIG03	
Trade Mark:	Redmi	
Hardware Version:	P1.1	
Software Version:	MIUI 14	
IMEI:	RF Conducted	IMEI1: 863532060007349 IMEI2: 863532060007356
	RSE & AC power line	IMEI1: 866672060051306 IMEI2: 866672060051314
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:	IFA Antenna	
Antenna Gain:	-0.6dBi (Ant6)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
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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	3.85
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 IFA Antenna and no consideration of replacement. The best case gain of the antenna is -0.6dBi (Ant6). *</p>	
<p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>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 C63.10-2020 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 C63.10-2020 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>

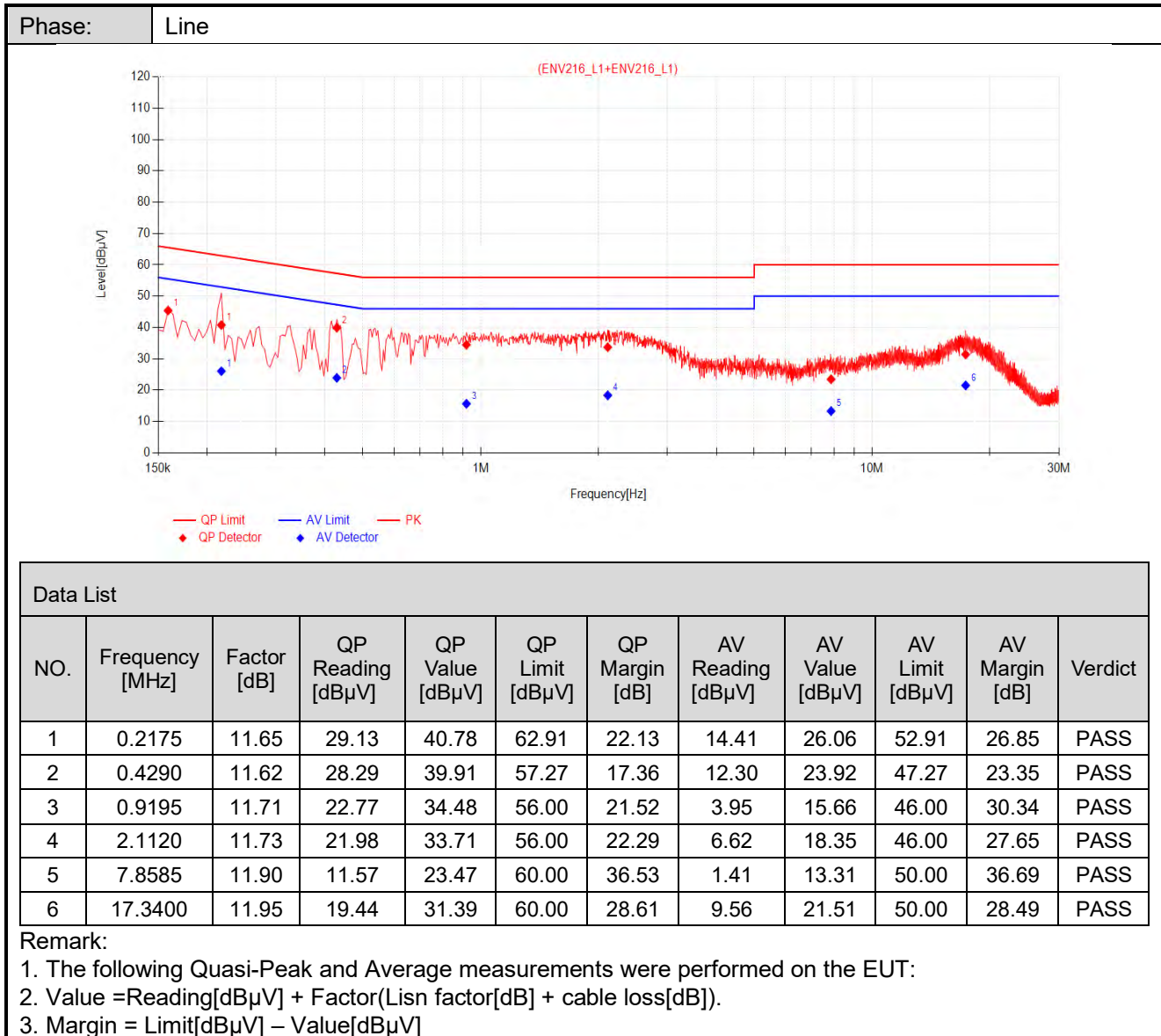


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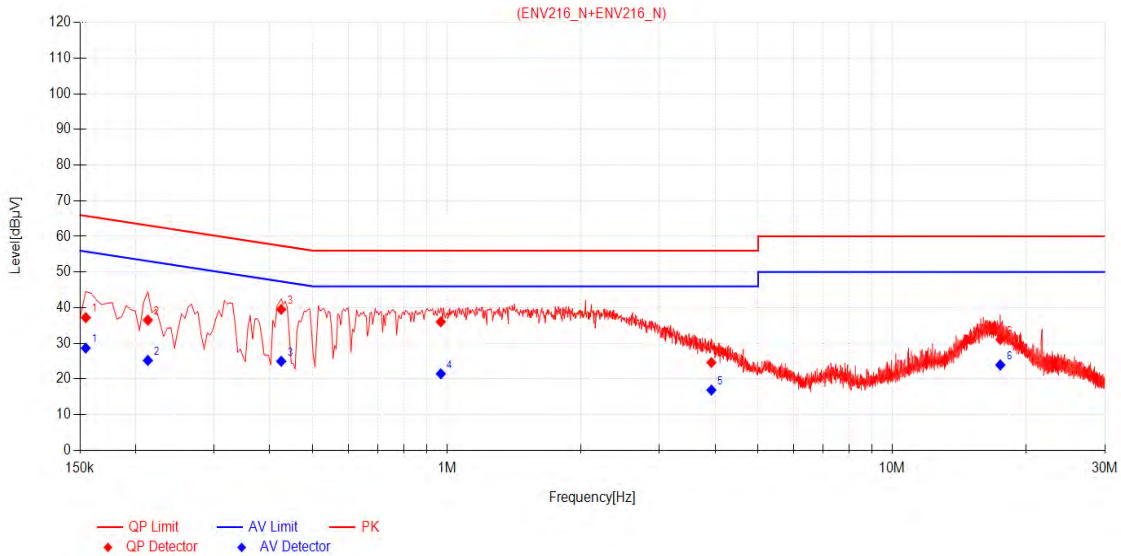
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Measurement Data

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.



Phase: Neutral



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	0.1545	11.83	25.38	37.21	65.75	28.54	16.84	28.67	55.75	27.08	PASS
2	0.2130	11.65	24.85	36.50	63.09	26.59	13.56	25.21	53.09	27.88	PASS
3	0.4245	11.62	27.91	39.53	57.36	17.83	13.35	24.97	47.36	22.39	PASS
4	0.9690	11.72	24.33	36.05	56.00	19.95	9.74	21.46	46.00	24.54	PASS
5	3.9255	11.76	12.85	24.61	56.00	31.39	5.15	16.91	46.00	29.09	PASS
6	17.4885	11.96	19.14	31.10	60.00	28.90	11.97	23.93	50.00	26.07	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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4.3 Duty Cycle

The detailed test data see: **Appendix**

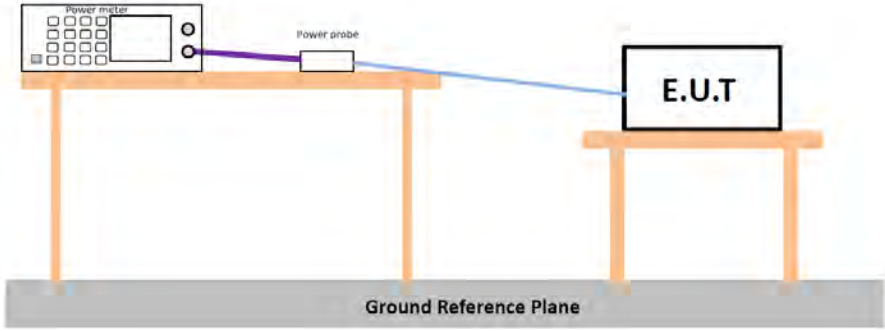


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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
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 C63.10-2020 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 C63.10-2020 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 C63.10-2020 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 C63.10-2020 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 C63.10-2020 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:

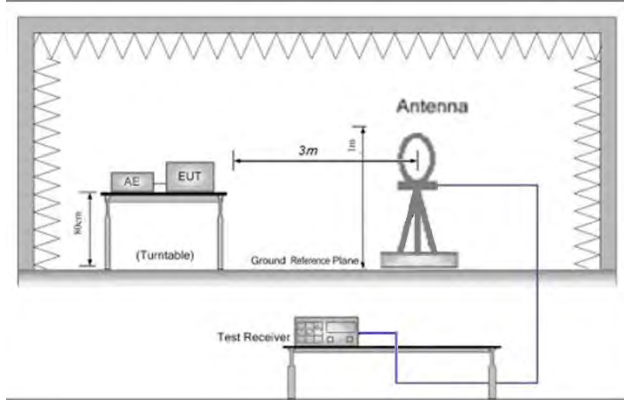


Figure 1. Below 30MHz

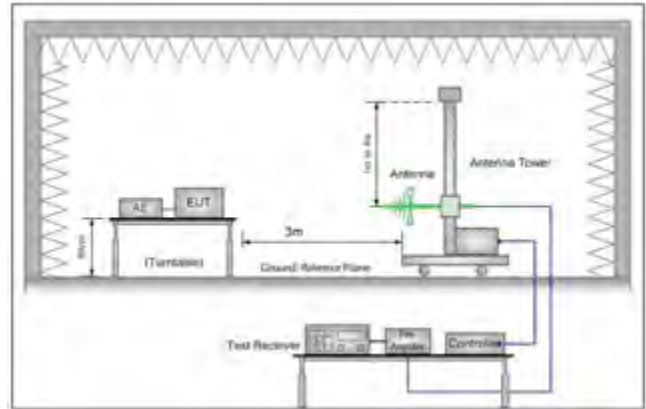


Figure 2. 30MHz to 1GHz

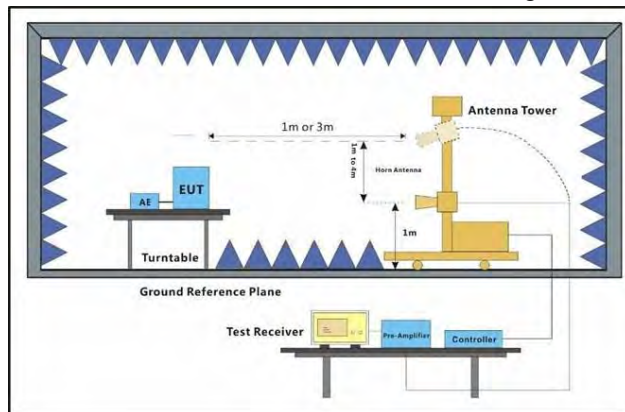


Figure 3. Above 1 GHz

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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</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.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 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:

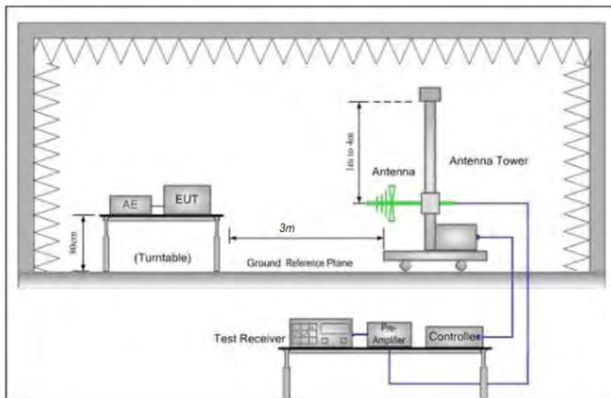


Figure 1. 30MHz to 1GHz

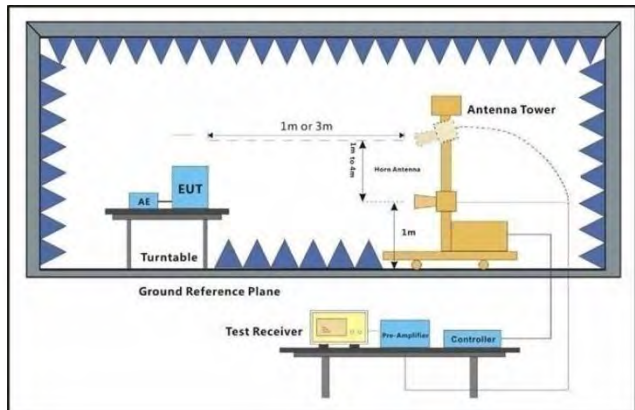


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. 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 = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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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 to 30MHz)
		± 4.88dB (30M to 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.



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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	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
				2023/05/11	2024/05/10
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
				2023/05/11	2024/05/10
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
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

Conduction 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-04-03-01	2021/05/08	2024/05/07
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
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					
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	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
				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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	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
				2023/05/12	2024/05/11
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	Ant6	2412	8.16	2407.92	2416.08	≥0.5	PASS
		2437	8.12	2432.92	2441.04	≥0.5	PASS
		2462	8.16	2457.92	2466.08	≥0.5	PASS
11g	Ant6	2412	15.76	2404.16	2419.92	≥0.5	PASS
		2437	15.80	2428.80	2444.60	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11n20SISO	Ant6	2412	16.88	2403.56	2420.44	≥0.5	PASS
		2437	16.04	2428.56	2444.60	≥0.5	PASS
		2462	15.04	2454.52	2469.56	≥0.5	PASS



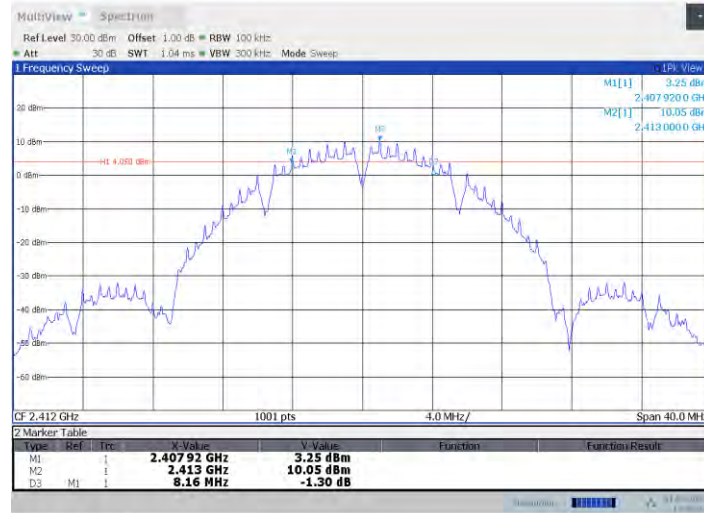
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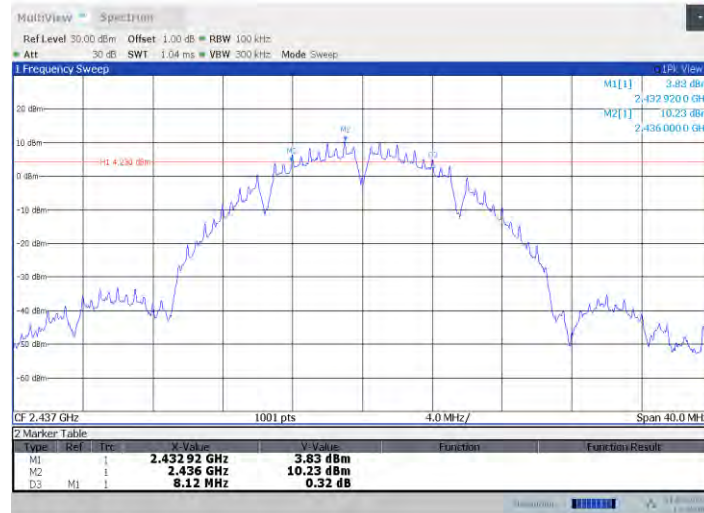
Test Graphs

11b Ant6 2412



17:03:24 01.05.2023

11b Ant6 2437



17:05:08 01.05.2023

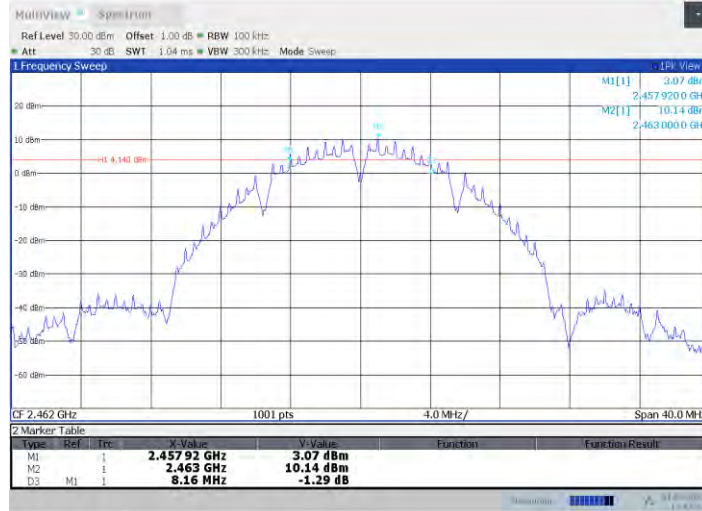


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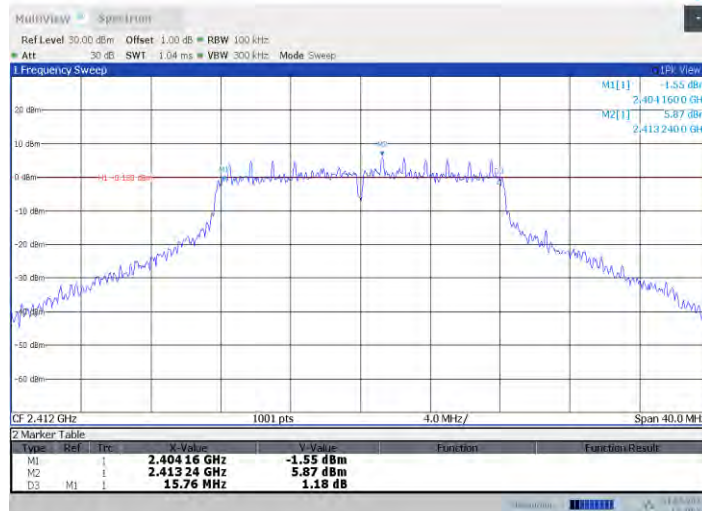
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11b Ant6 2462



17:07:24 01.05.2023

11g Ant6 2412



17:10:53 01.05.2023



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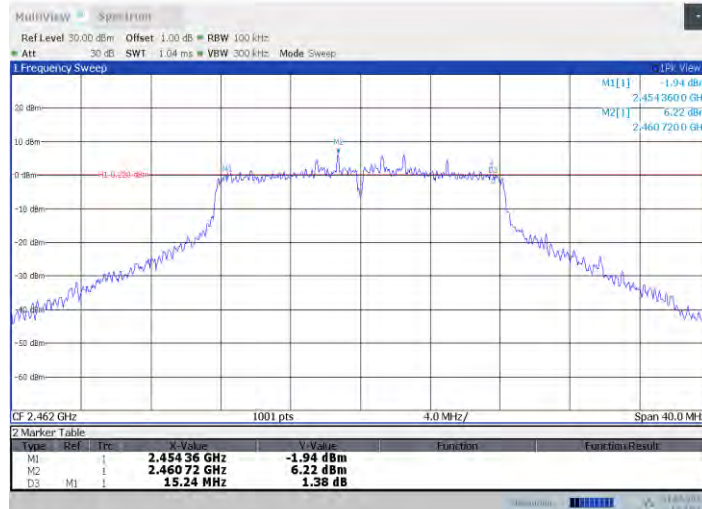
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11g Ant6 2437



17:12:13 01.05.2023

11g Ant6 2462



17:13:23 01.05.2023

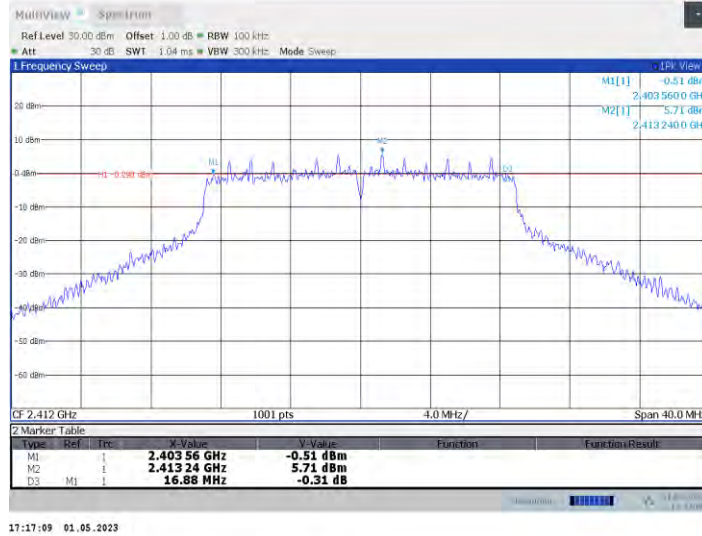


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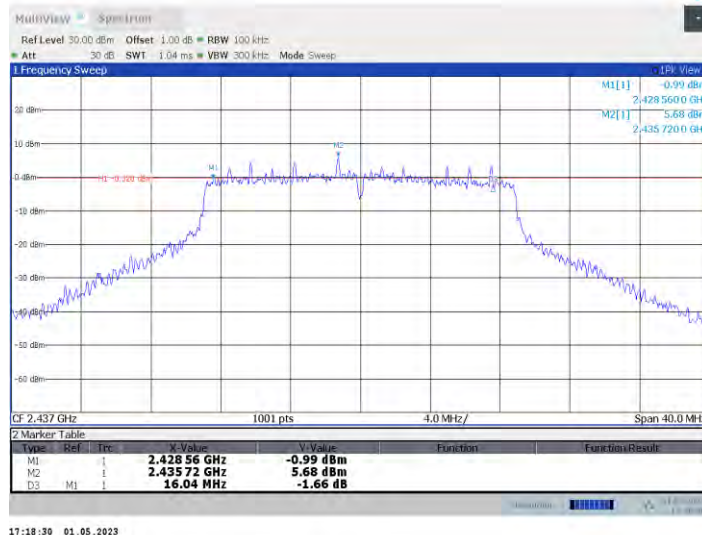
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11n20SISO_Ant6_2412



17:17:09 01.05.2023

11n20SISO_Ant6_2437



17:18:30 01.05.2023

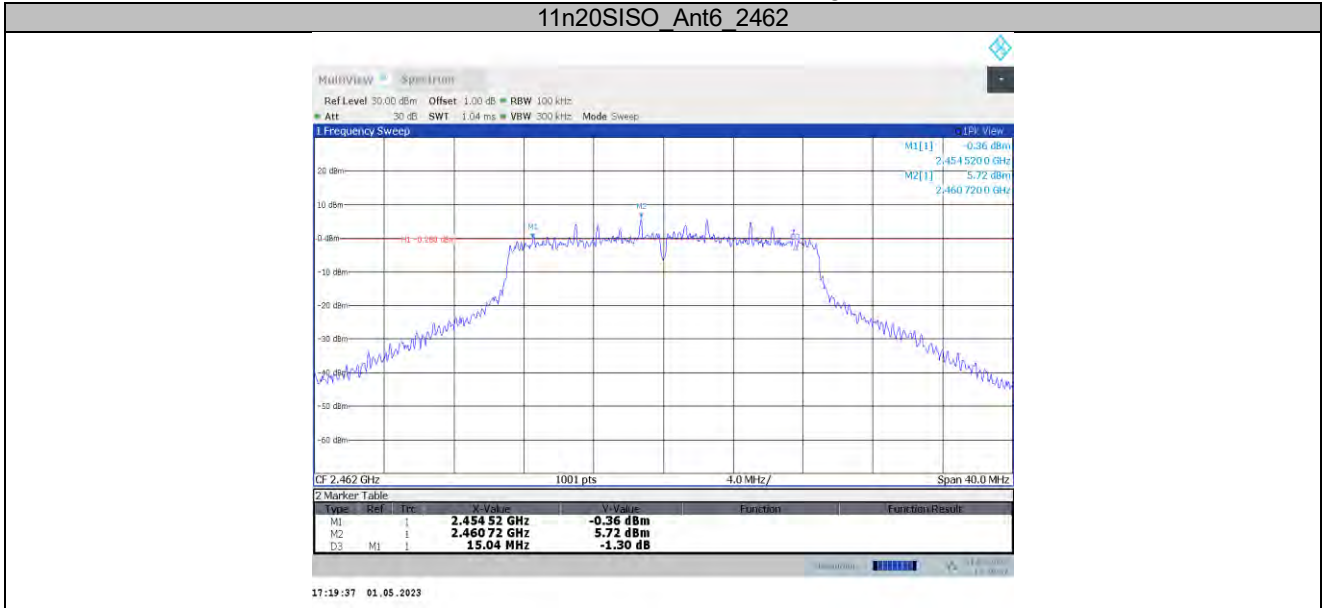


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11n20SISO_Ant6_2462



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant6	2412	14.033	2405.047	2419.080	For Report Purpose
		2437	13.869	2429.946	2443.815	
		2462	13.717	2455.201	2468.919	
11g	Ant6	2412	17.081	2403.521	2420.602	
		2437	16.979	2428.416	2445.394	
		2462	16.878	2453.565	2470.443	
11n20SISO	Ant6	2412	18.225	2402.956	2421.181	
		2437	18.116	2427.885	2446.000	
		2462	18.049	2452.972	2471.021	



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Test Graphs



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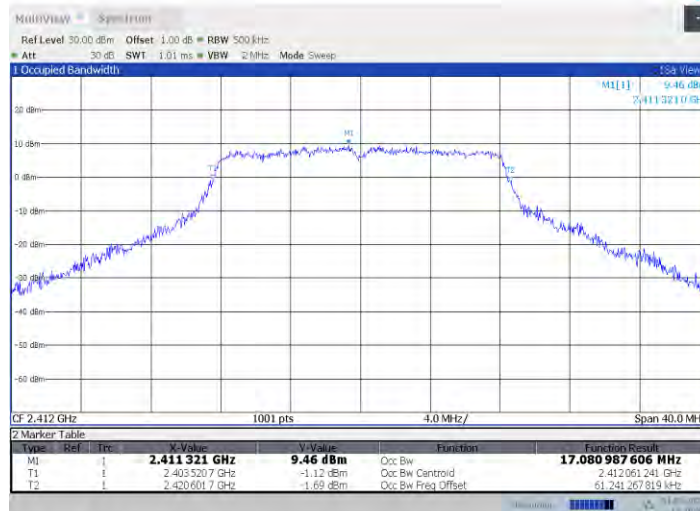
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11b Ant6 2462



17:07:29 01.05.2023

11g Ant6 2412



17:10:59 01.05.2023

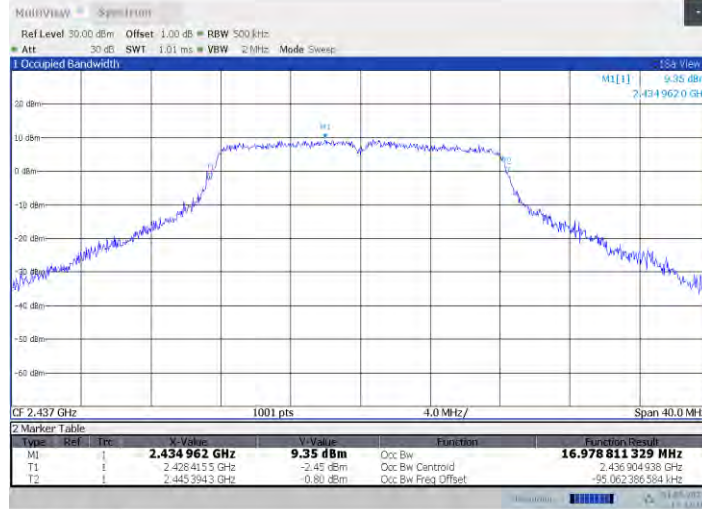


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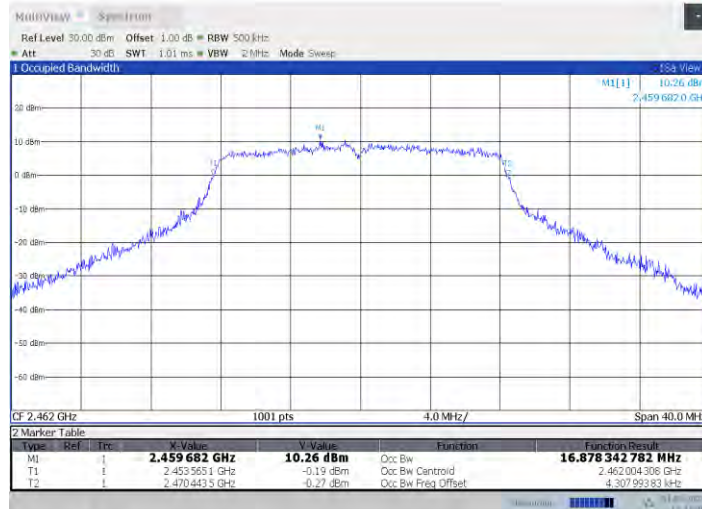
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11g Ant6 2437



17:12:18 01.05.2023

11g Ant6 2462



17:13:28 01.05.2023

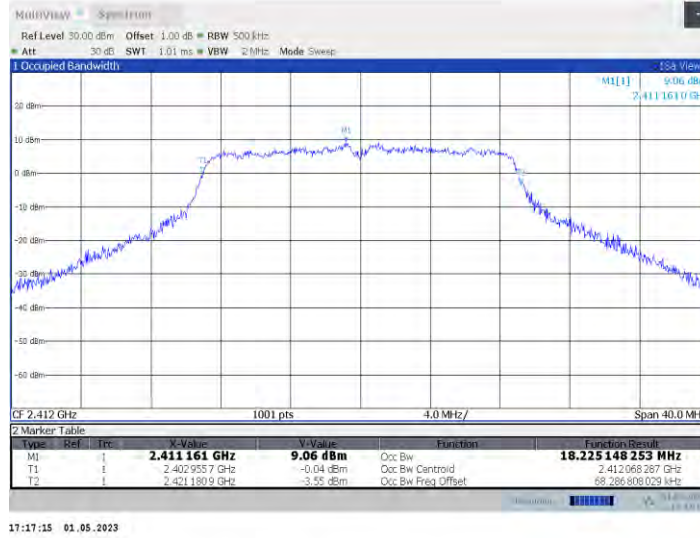


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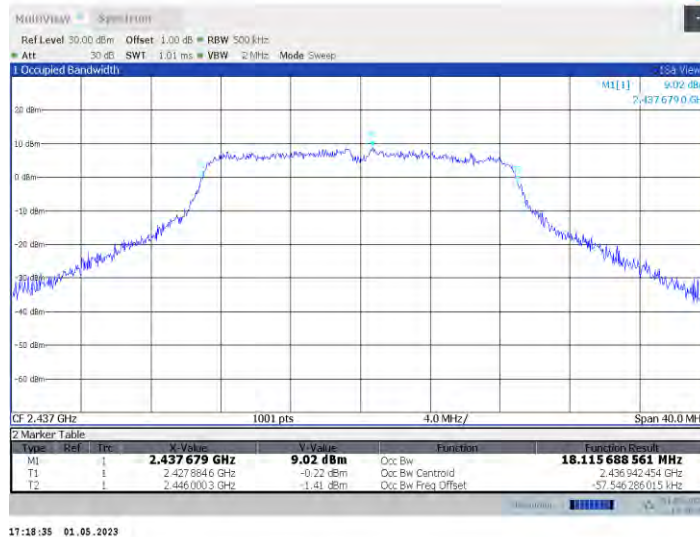
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11n20SISO_Ant6_2437



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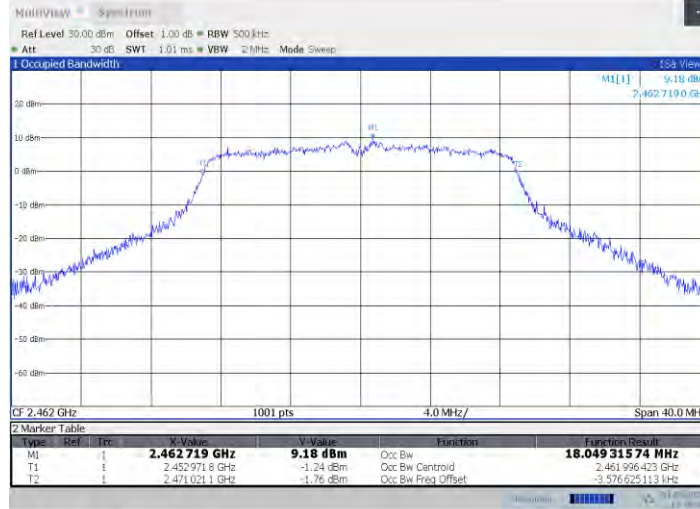


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Report No.: SEWM2305000160RG05

Rev.: 01

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant6	2412	19	20.10	≤30.00	PASS
		2437	19	20.03	≤30.00	PASS
		2462	19	20.01	≤30.00	PASS
11g	Ant6	2412	17	20.24	≤30.00	PASS
		2437	17	20.33	≤30.00	PASS
		2462	17	20.30	≤30.00	PASS
11n20SISO	Ant6	2412	16.5	19.94	≤30.00	PASS
		2437	16.5	20.06	≤30.00	PASS
		2462	16.5	20.03	≤30.00	PASS



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Report No.: SEWM2305000160RG05

Rev.: 01

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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant6	2412	-7.06	≤8.00	PASS
		2437	-6.88	≤8.00	PASS
		2462	-6.7	≤8.00	PASS
11g	Ant6	2412	-10.09	≤8.00	PASS
		2437	-9.97	≤8.00	PASS
		2462	-9.12	≤8.00	PASS
11n20SISO	Ant6	2412	-9.76	≤8.00	PASS
		2437	-11.39	≤8.00	PASS
		2462	-11.27	≤8.00	PASS



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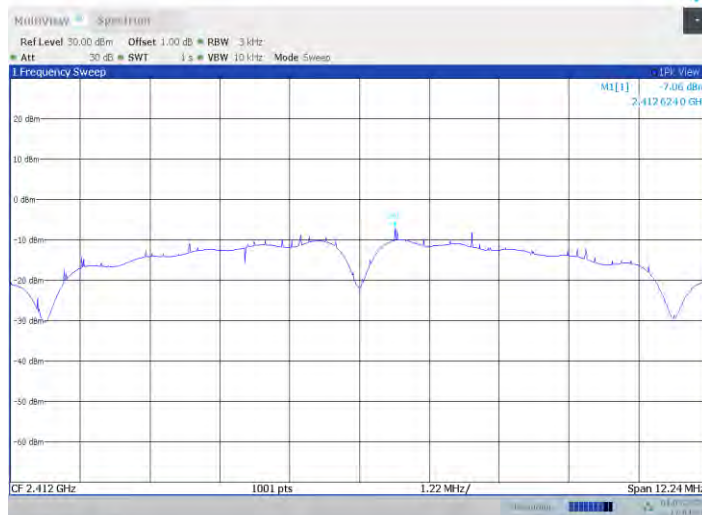
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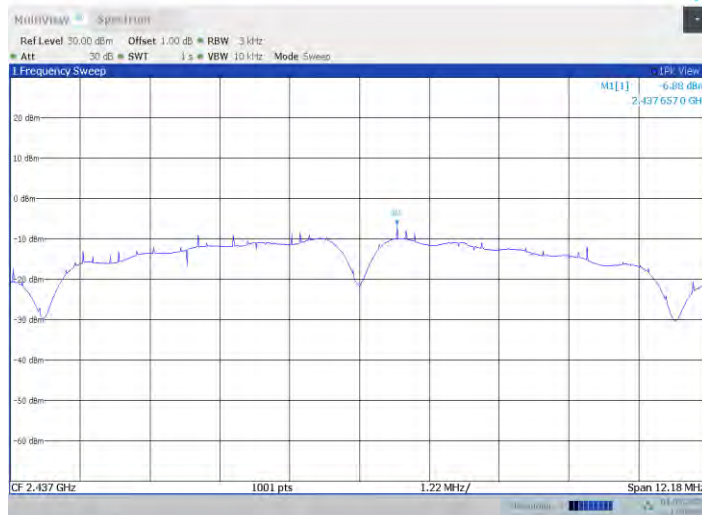
Test Graphs

11b Ant6 2412



17:04:21 01.05.2023

11b Ant6 2437

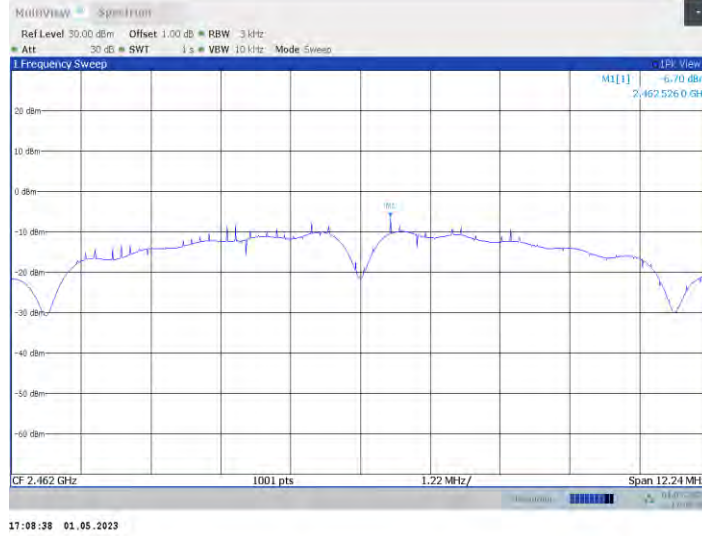


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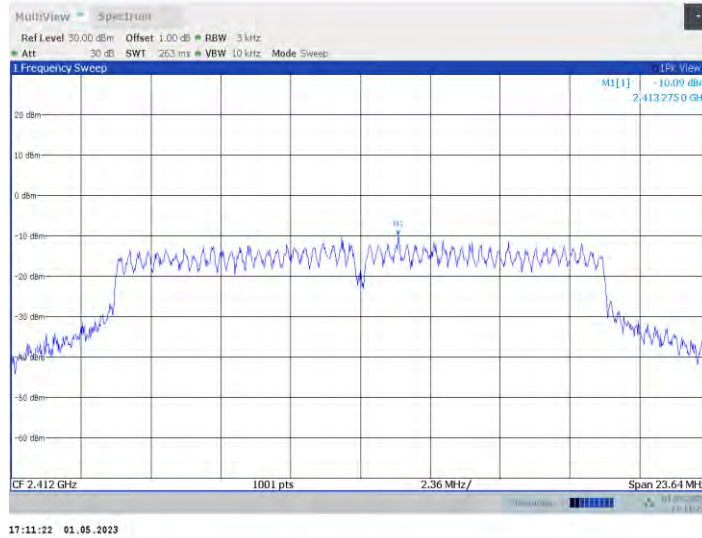


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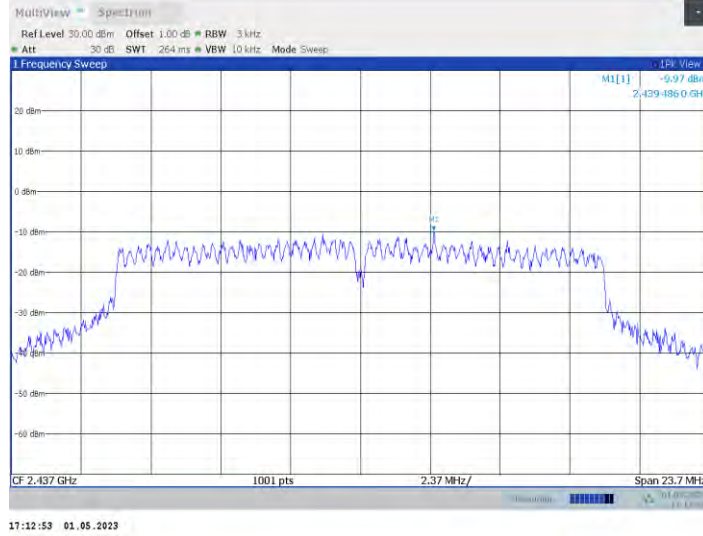
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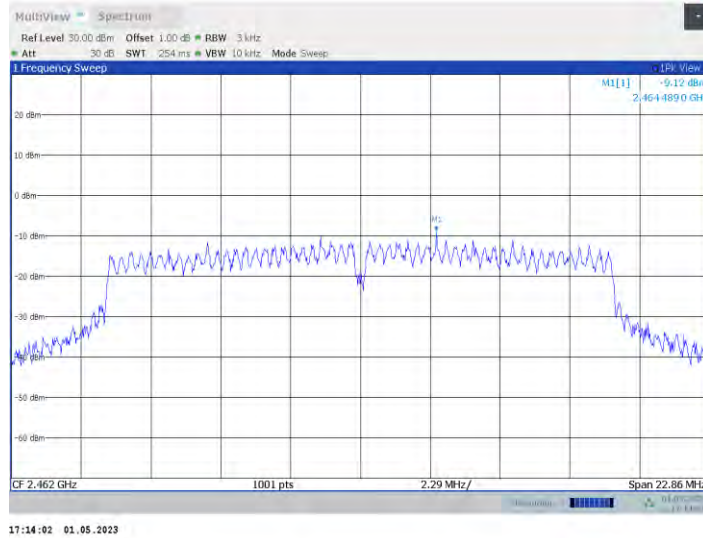
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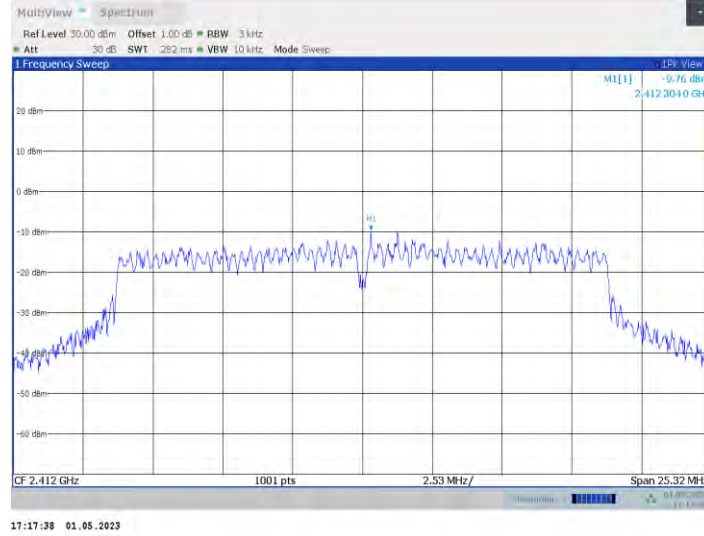
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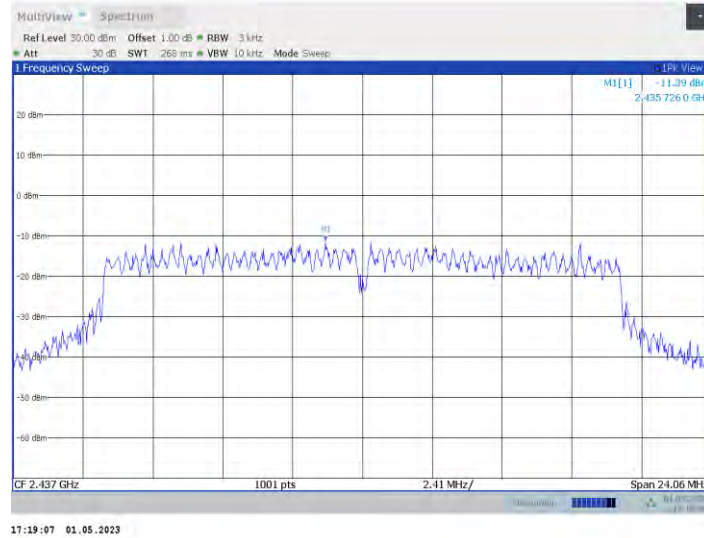
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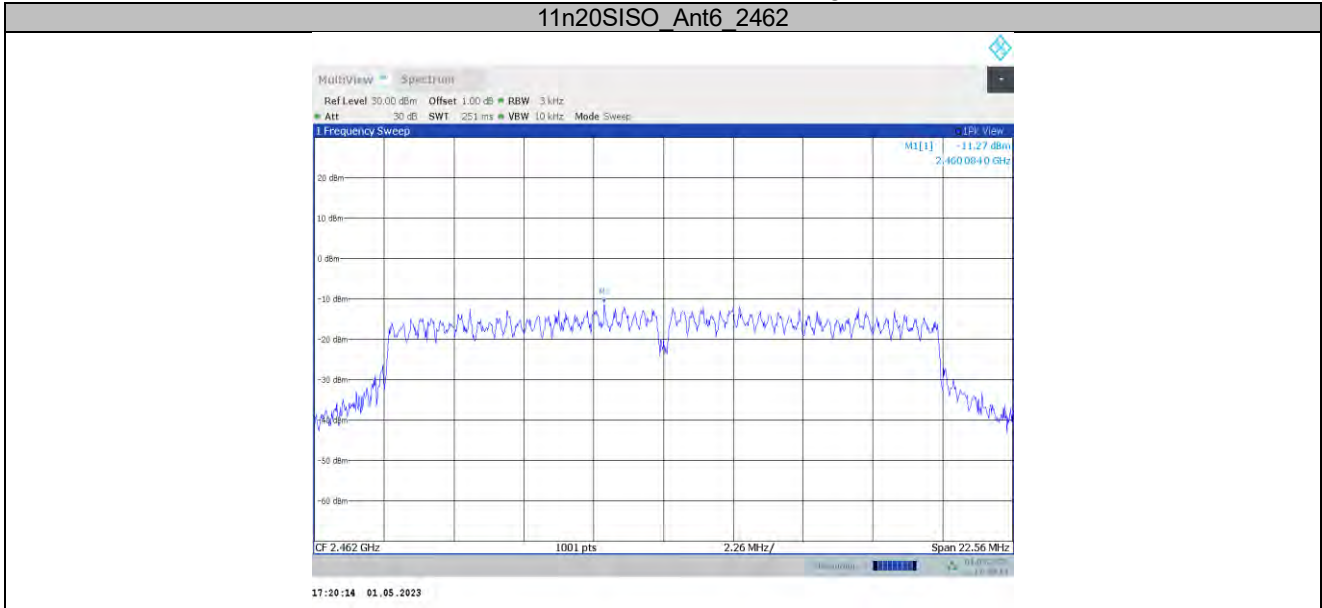
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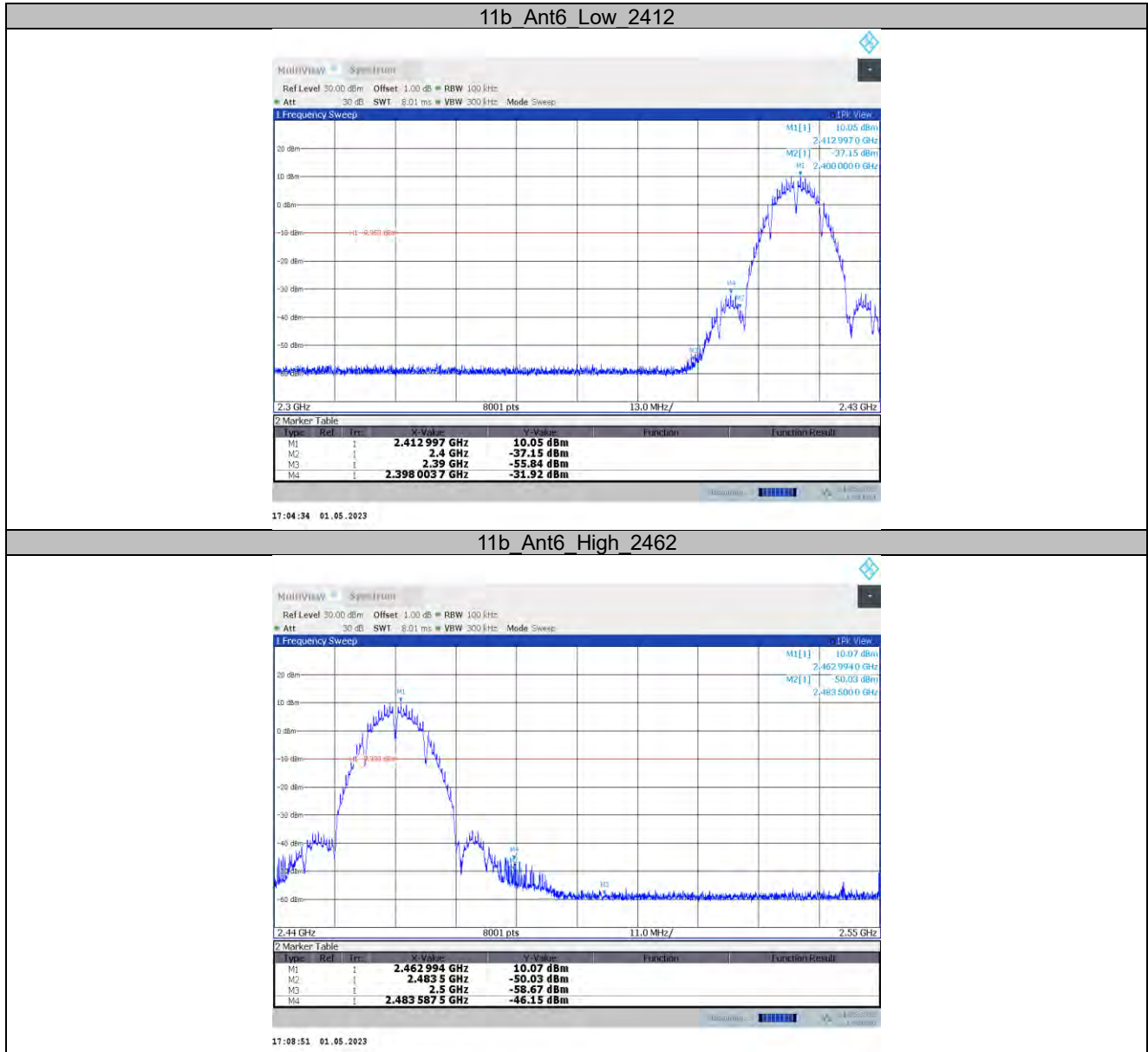


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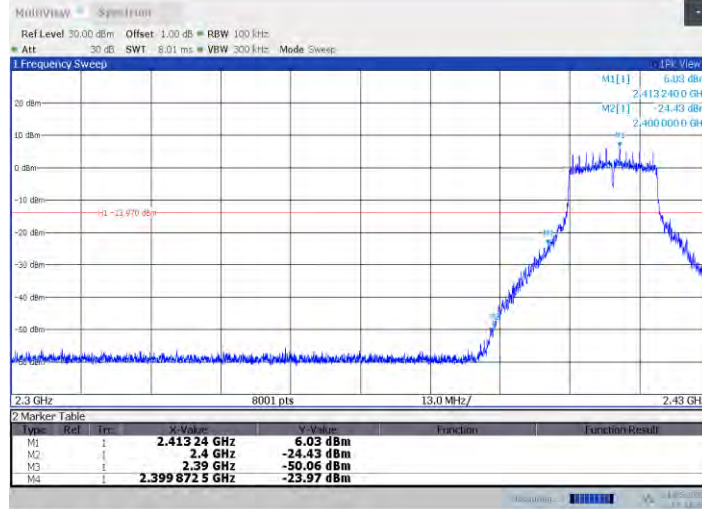
Band edge measurements Test Graphs



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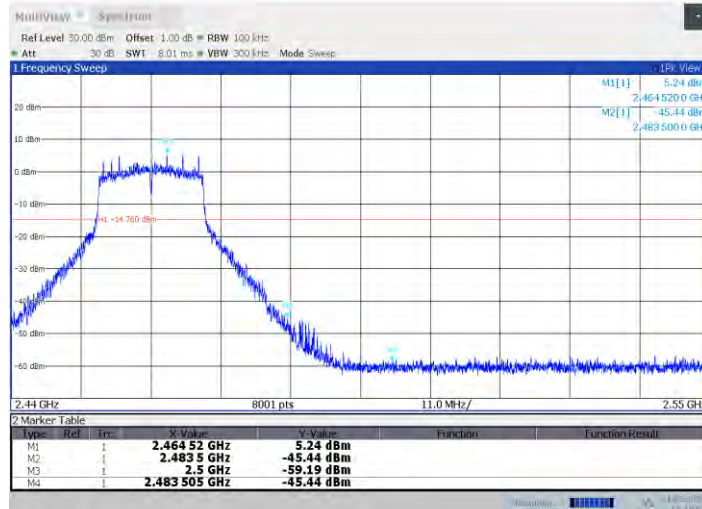
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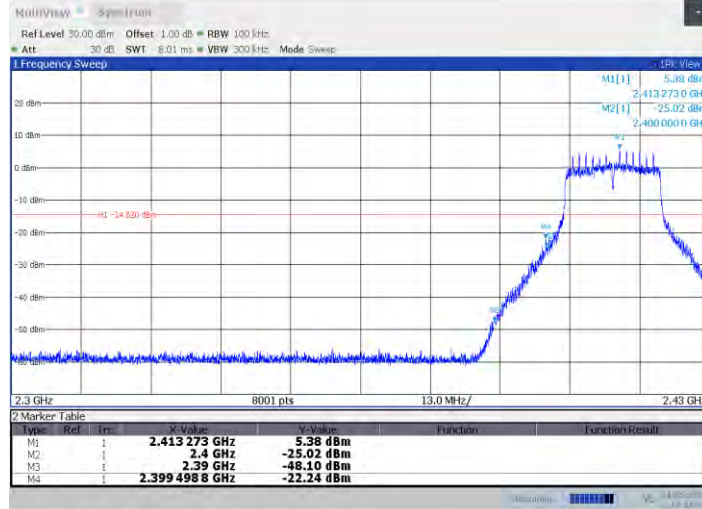


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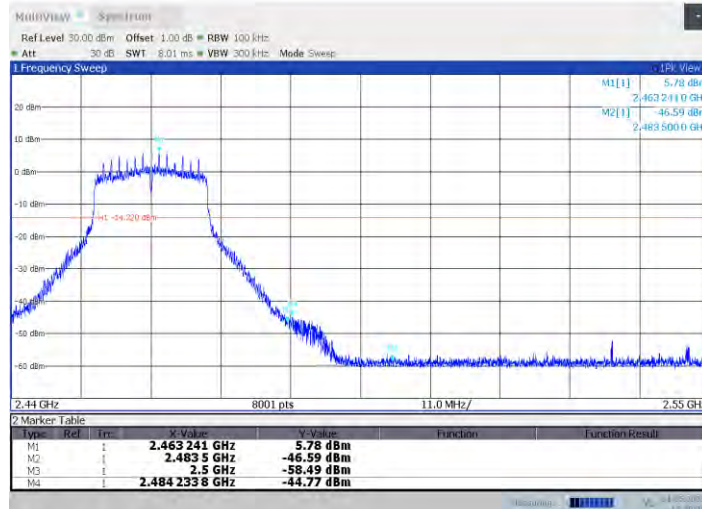
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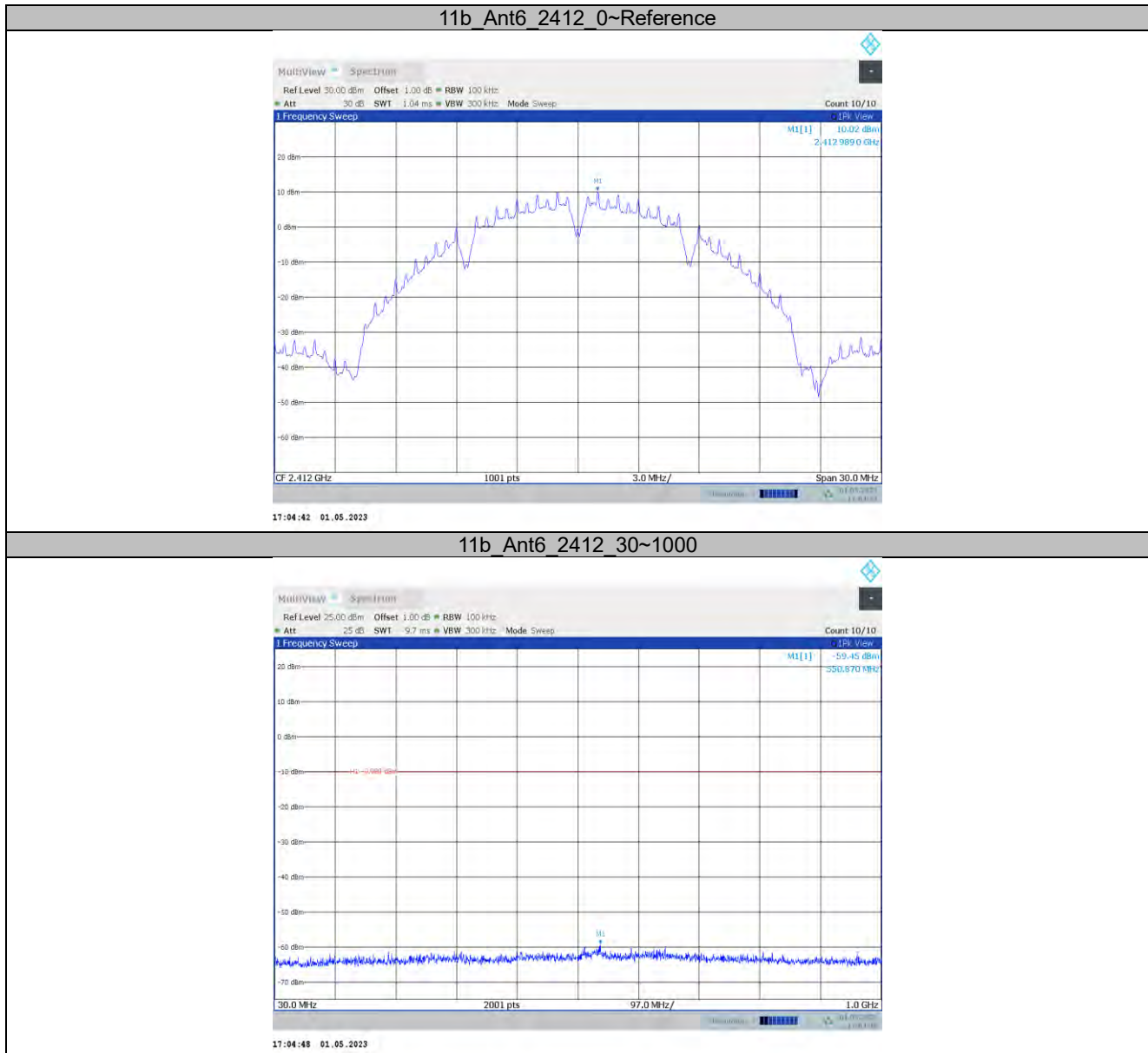


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Conducted Spurious Emission Test Graphs

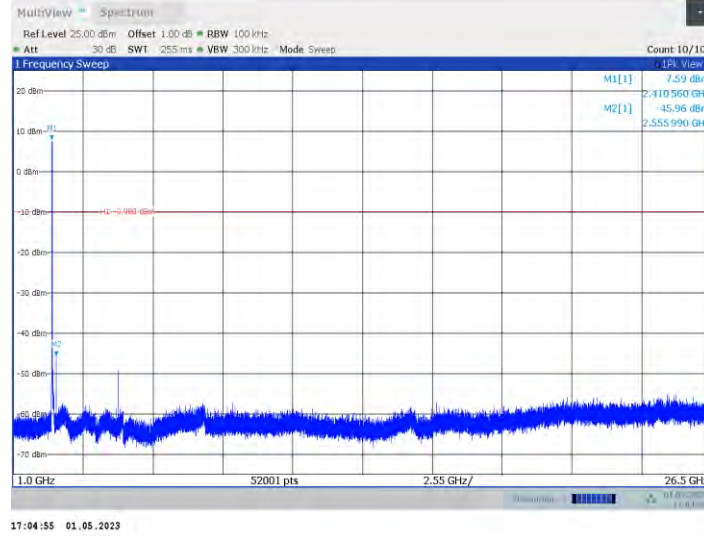


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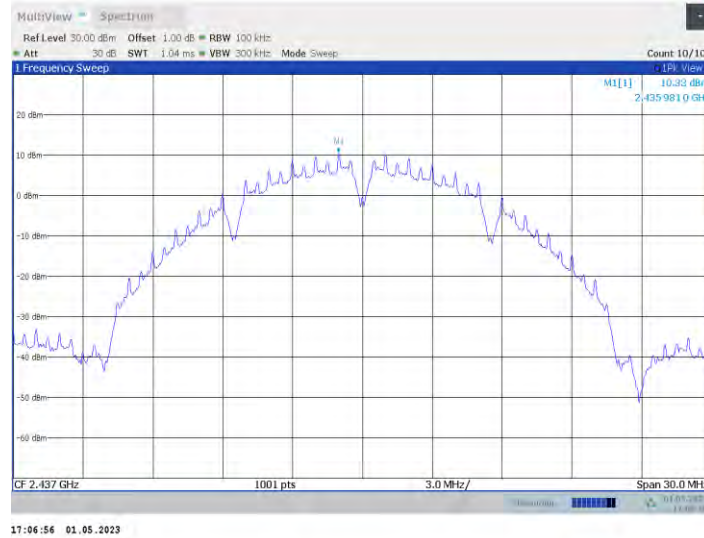
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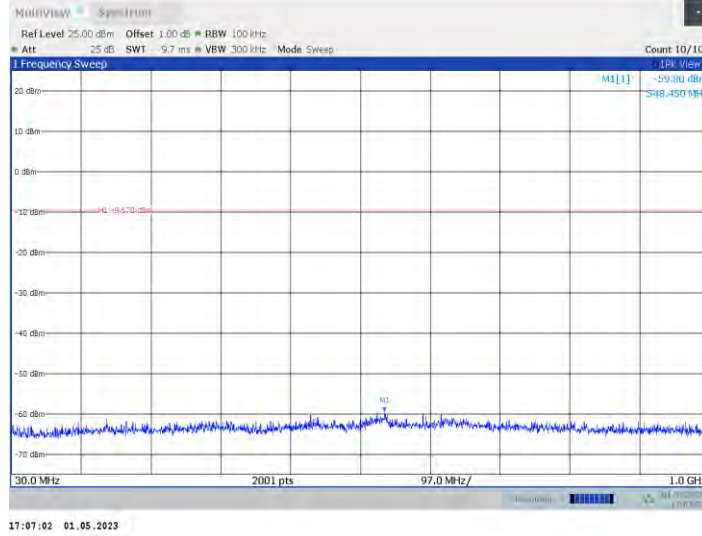
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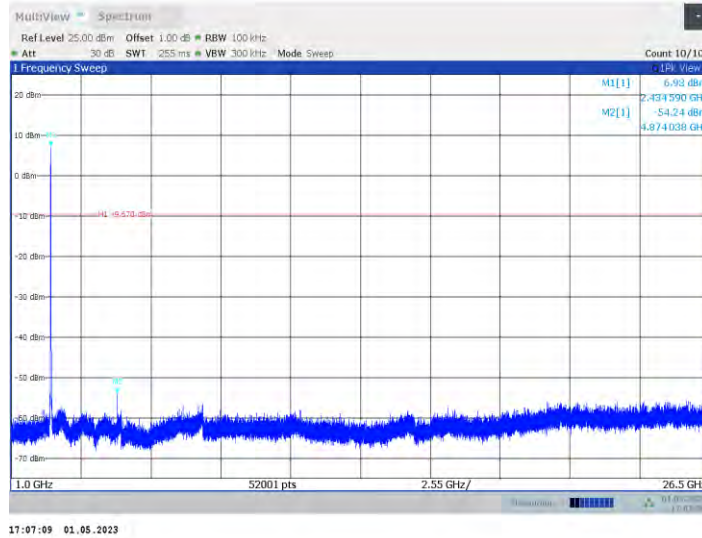
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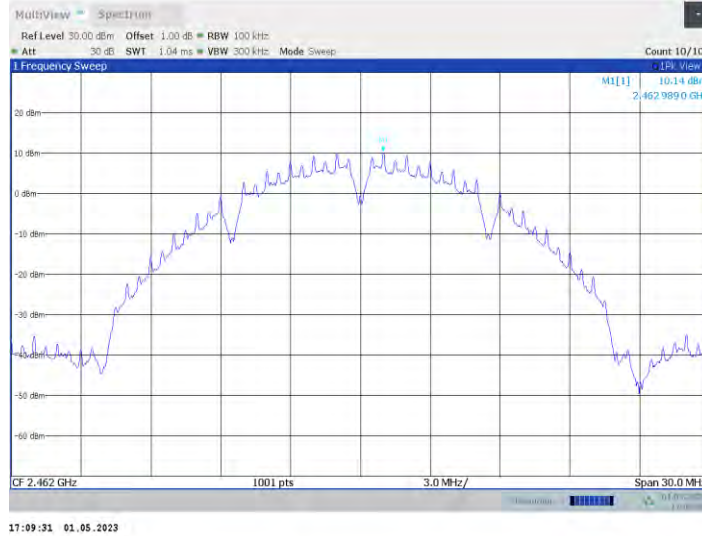


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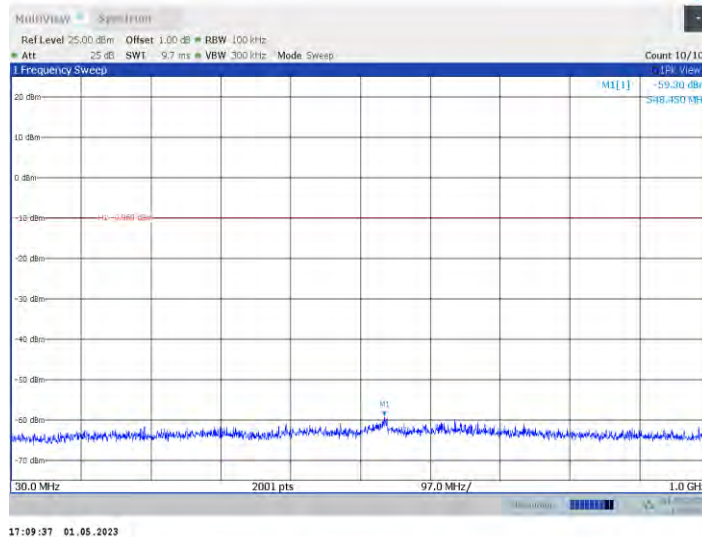
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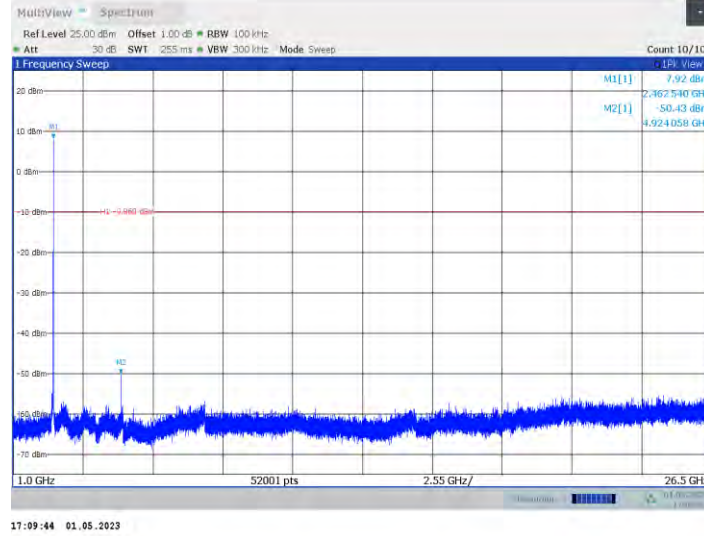


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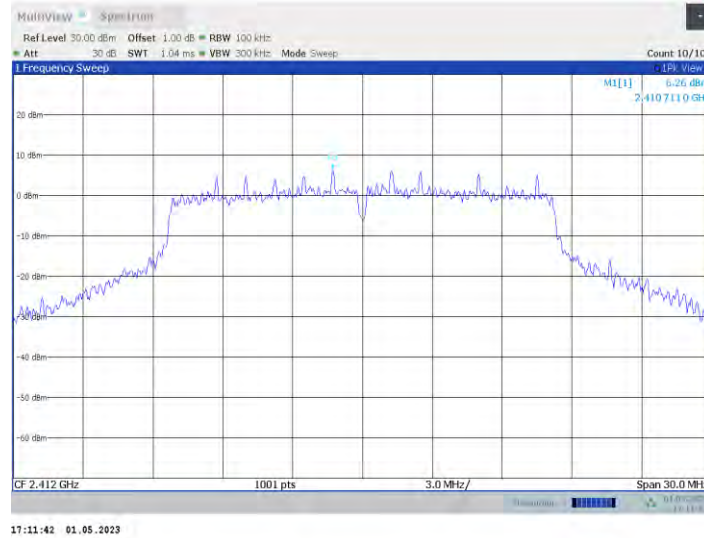
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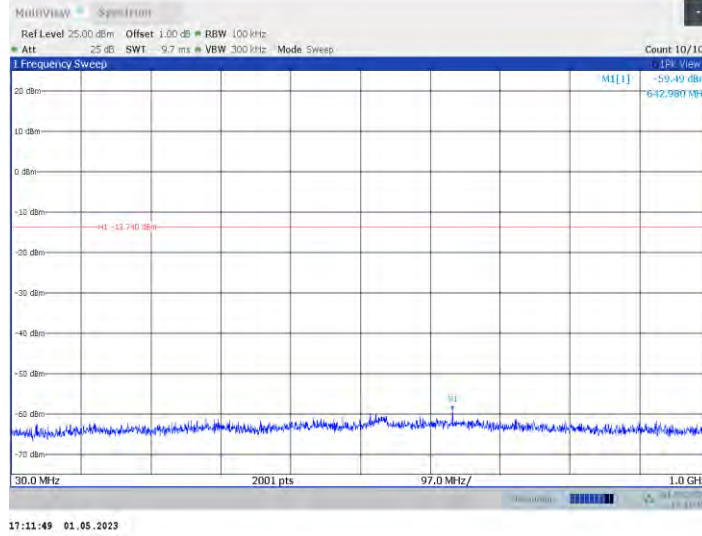
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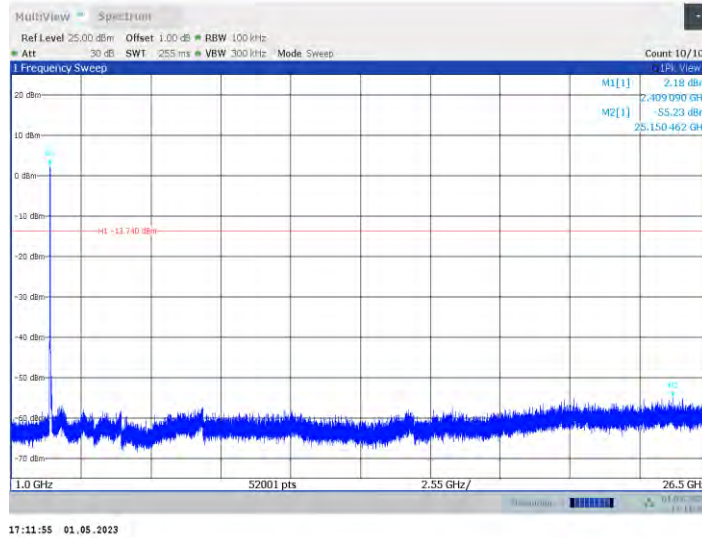
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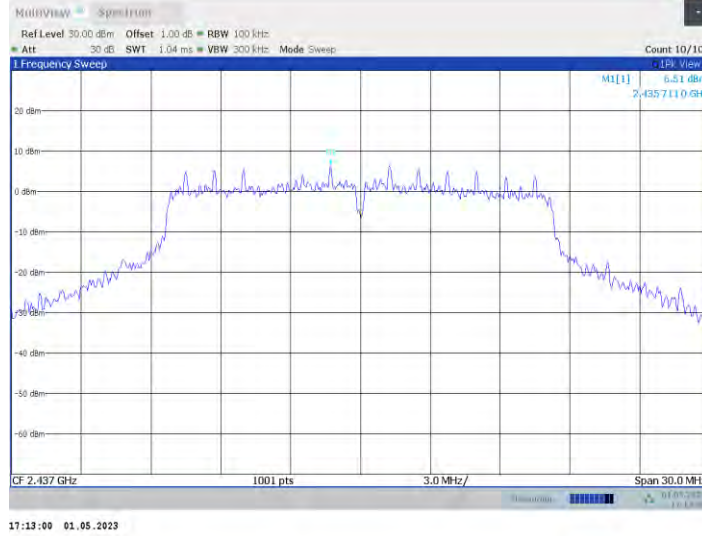
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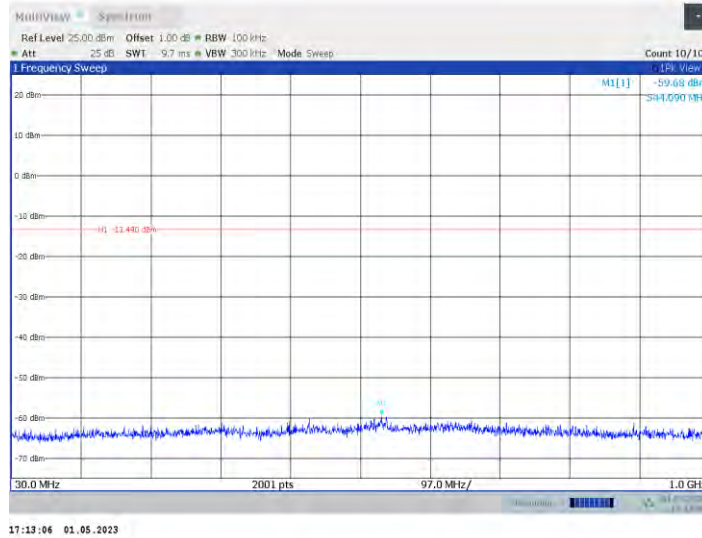
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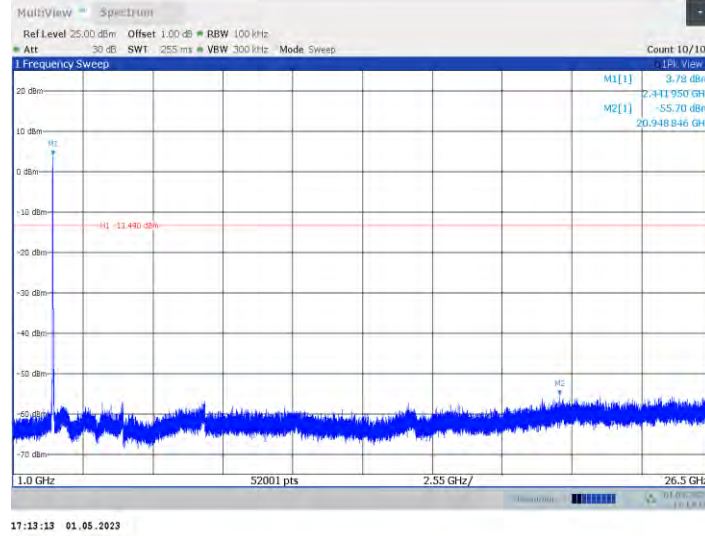
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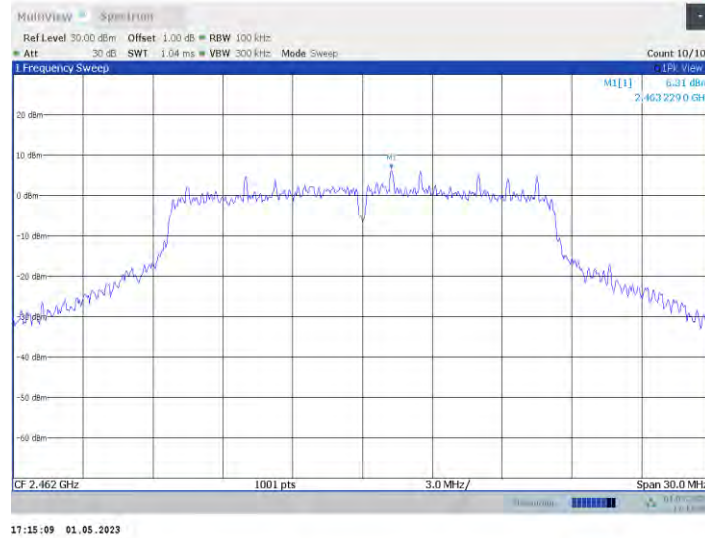
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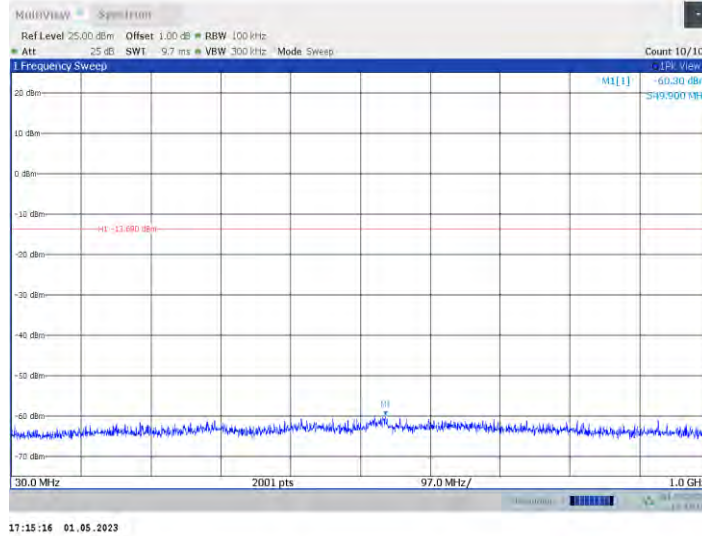
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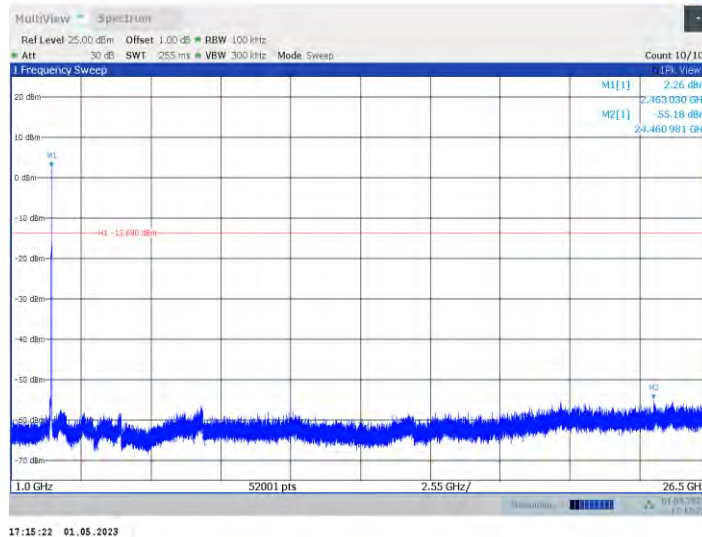
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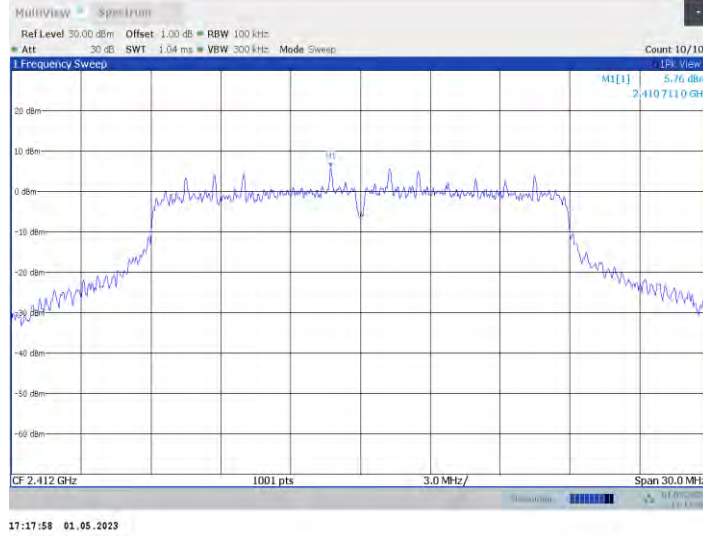


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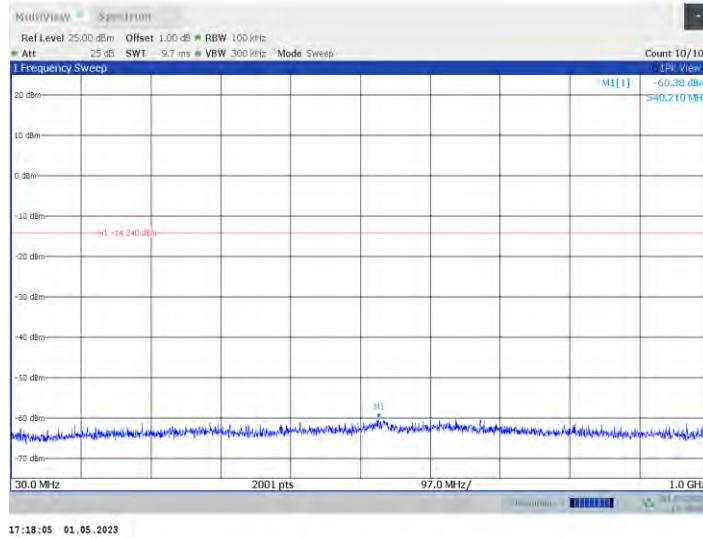
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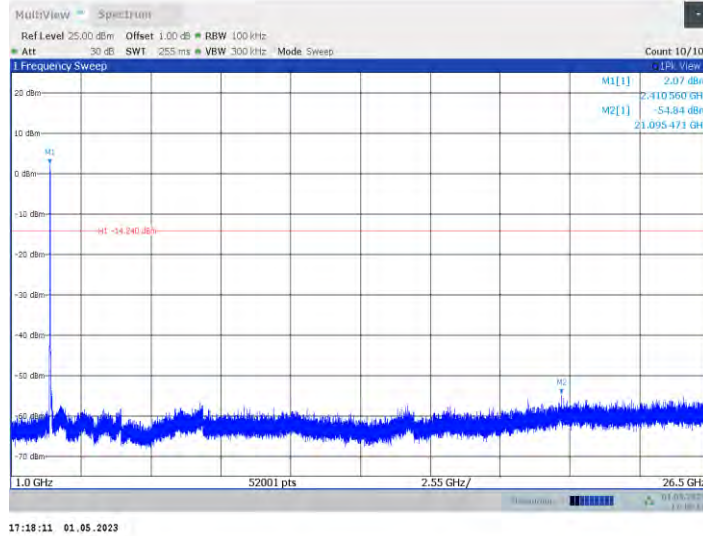
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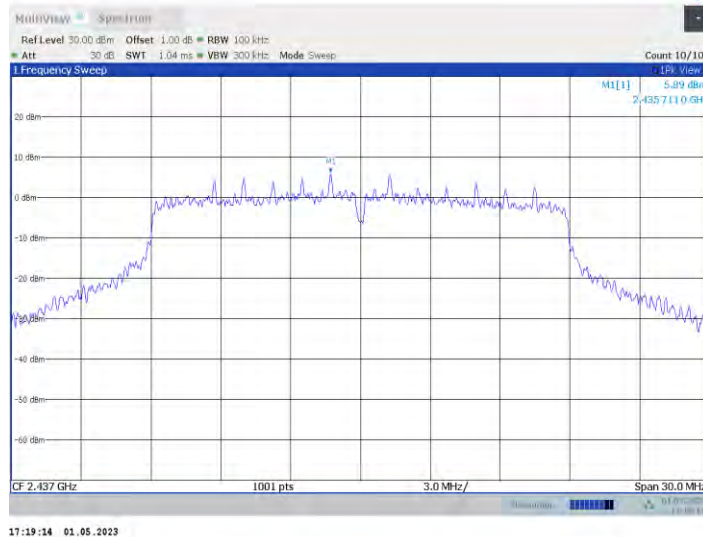
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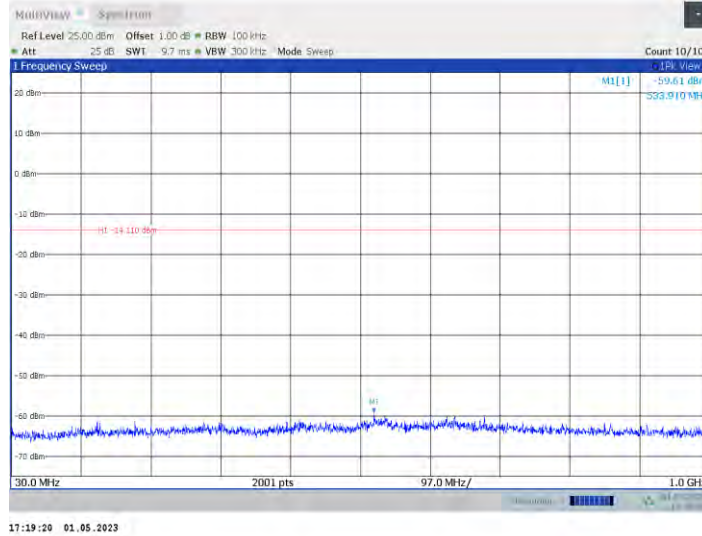
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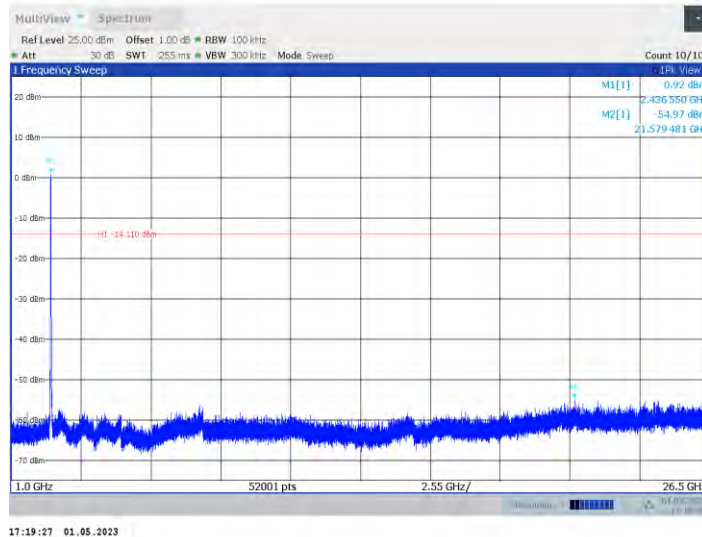
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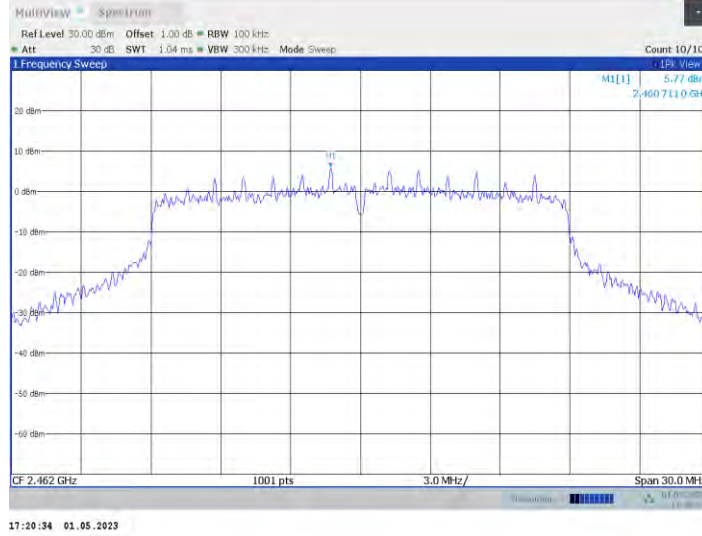
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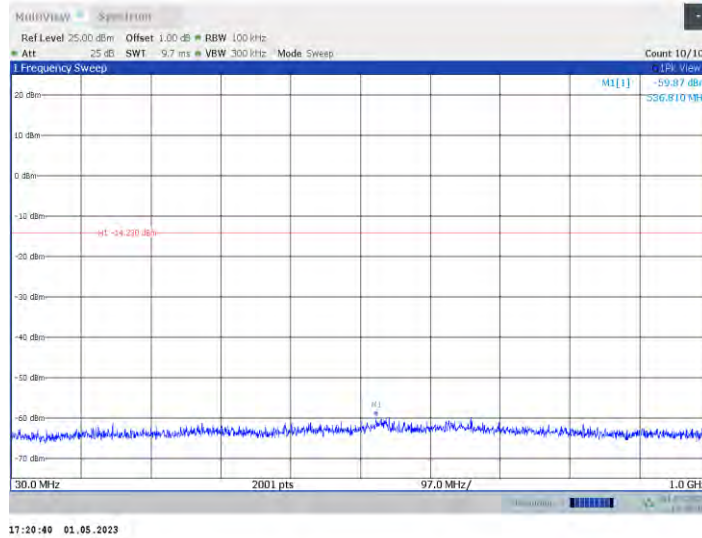
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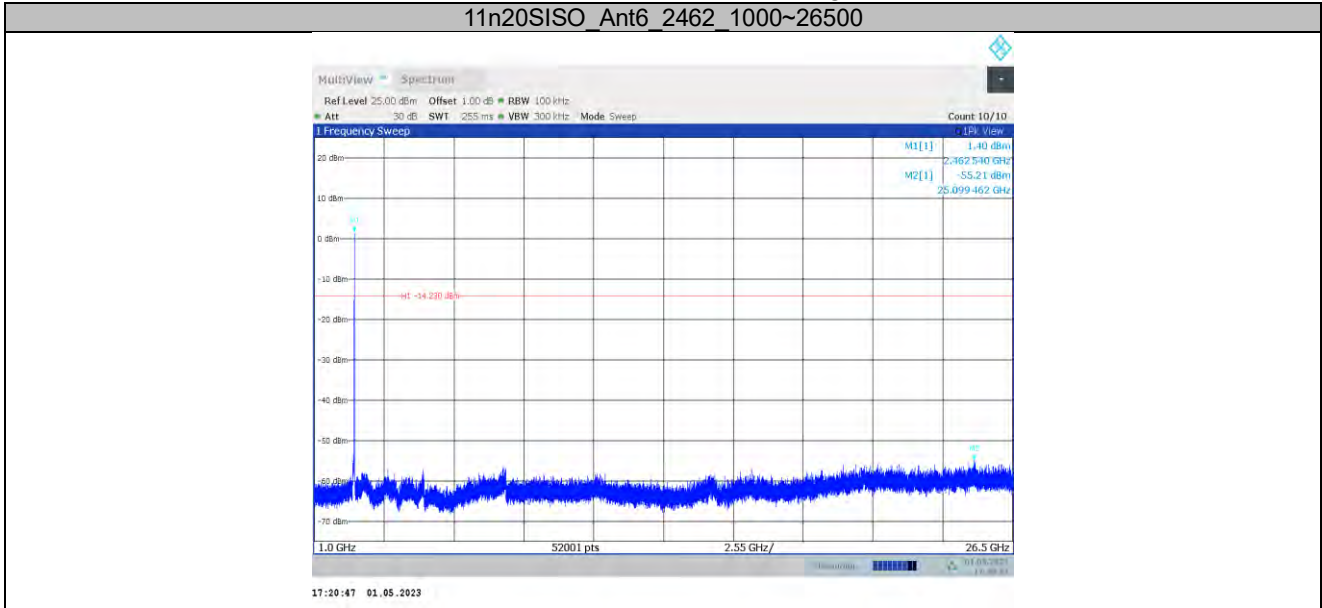


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Report No.: SEWM2305000160RG05

Rev.: 01

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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant6	2412	12.45	12.63	98.57
11g	Ant6	2412	2.06	2.10	98.10
11n20SISO	Ant6	2412	1.92	1.96	97.96

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	12.45	12.63	98.57	0.08032	10Hz*
11g	2.06	2.10	98.10	0.48544	10Hz*
11n20SISO	1.92	1.96	97.96	0.52083	0.56KHz

*Duty cycle > 98% VBW setting=10Hz



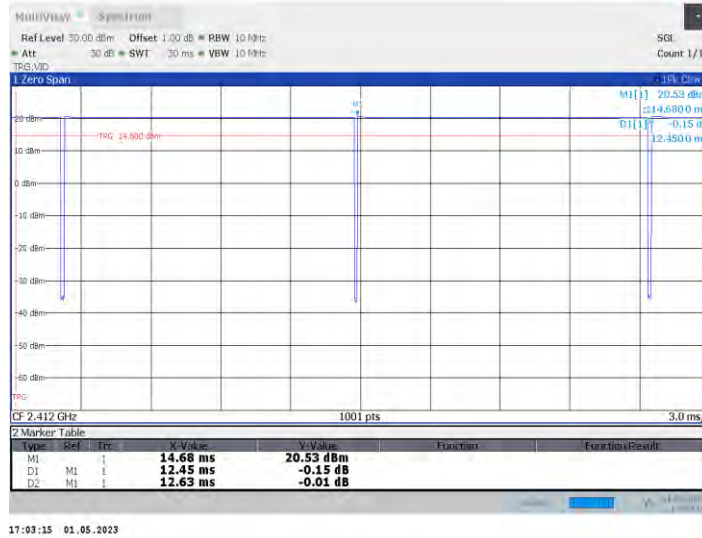
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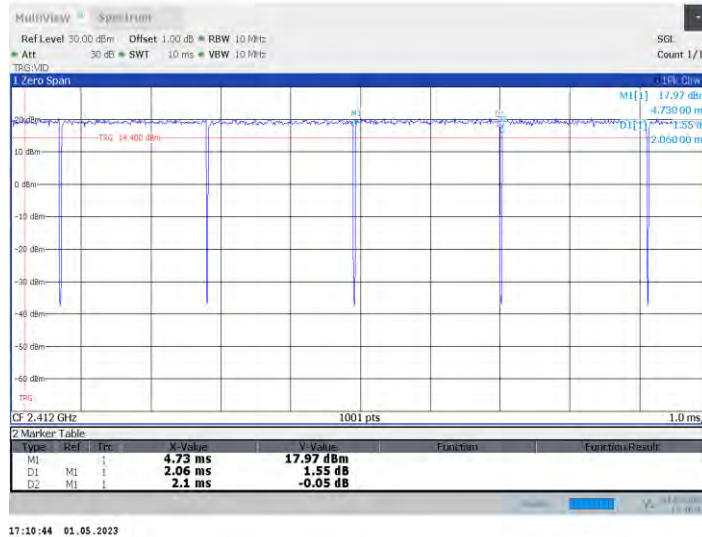
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Test Graphs

11b Ant6 2412



11g Ant6 2412

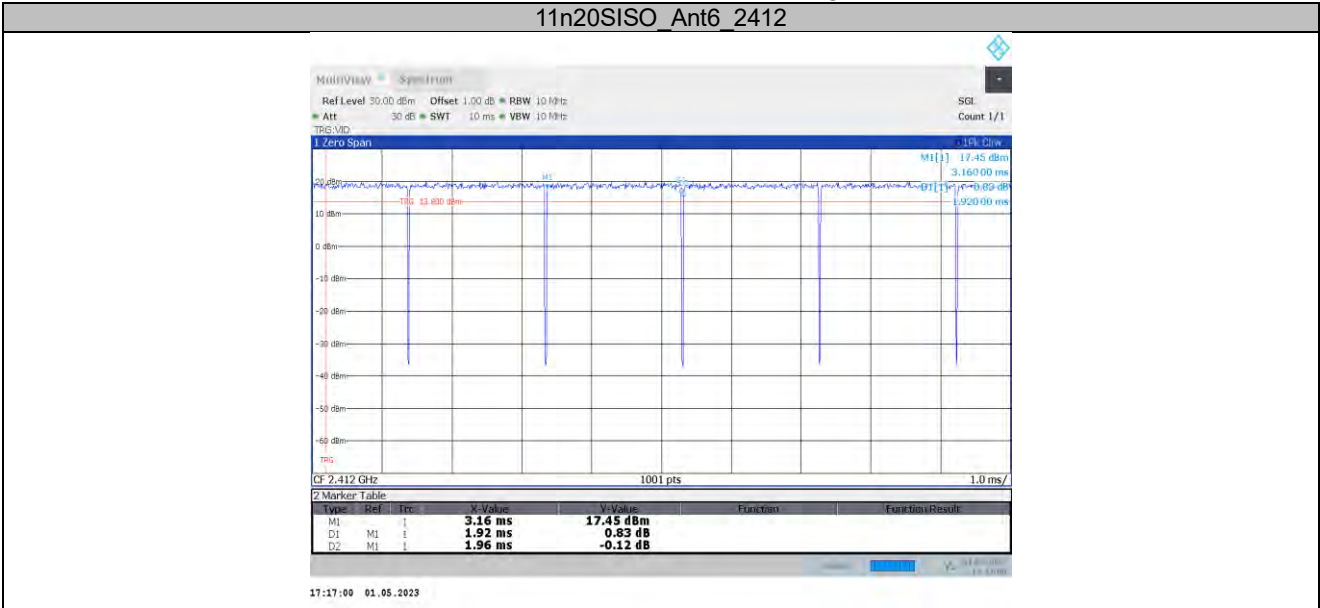


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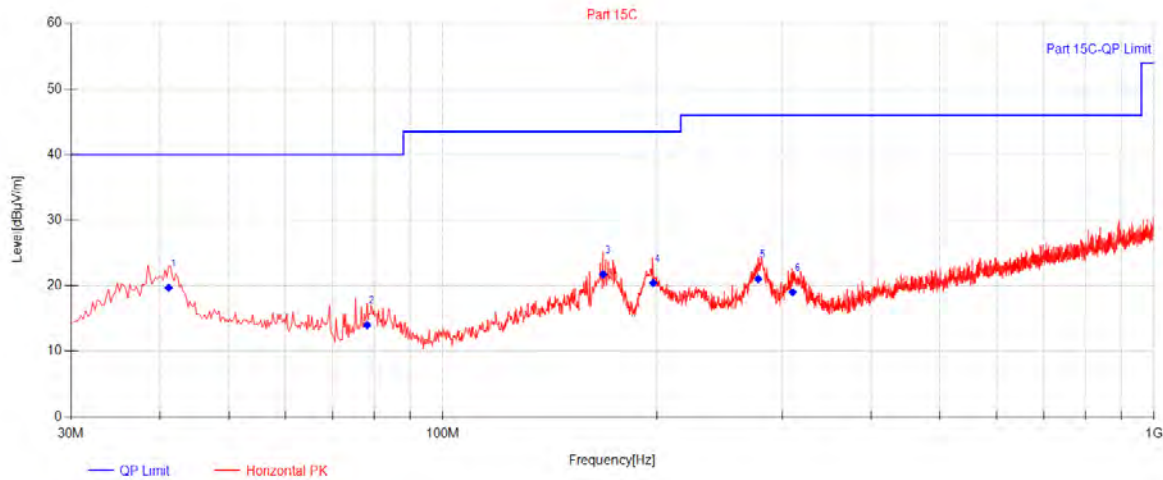
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n20_Channel 01



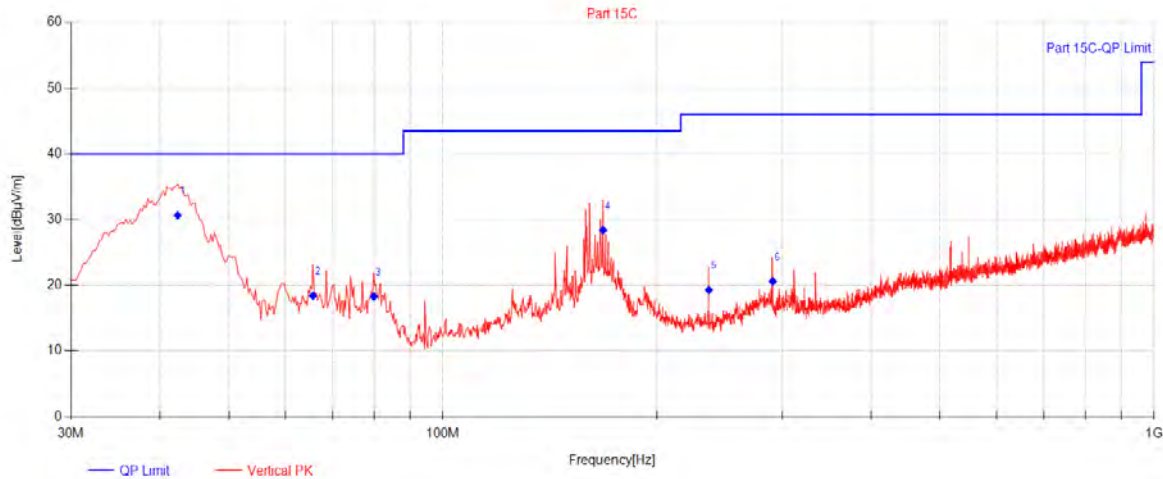
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.155	41.98	-36.25	13.97	19.70	40.00	20.30	218	170	Horizontal
2	78.2575	40.23	-35.79	9.56	14.00	40.00	26.00	145	302	Horizontal
3	167.9825	42.55	-35.18	14.36	21.73	43.50	21.77	126	360	Horizontal
4	197.5675	45.16	-35.22	10.48	20.42	43.50	23.08	136	141	Horizontal
5	277.5925	43.22	-34.43	12.25	21.04	46.00	24.96	251	179	Horizontal
6	310.33	40.22	-34.24	13.01	18.99	46.00	27.01	145	179	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	42.3675	53.01	-36.24	13.87	30.64	40.00	9.36	165	65	Vertical
2	65.6475	43.21	-36.47	11.66	18.40	40.00	21.60	142	147	Vertical
3	79.955	44.62	-35.63	9.30	18.28	40.00	21.72	125	310	Vertical
4	167.9825	49.22	-35.18	14.36	28.40	43.50	15.10	188	77	Vertical
5	236.61	43.03	-34.87	11.12	19.28	46.00	26.72	195	126	Vertical
6	290.93	42.11	-34.08	12.58	20.61	46.00	25.39	153	147	Vertical

Remark:

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



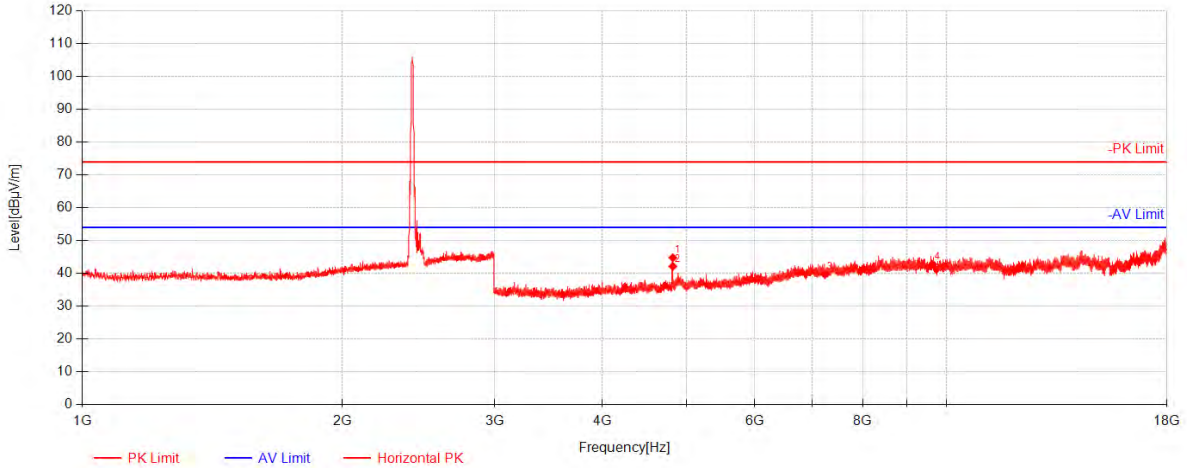
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Transmitter emission Above 1GHz

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	57.93	32.39	-45.54	44.78	74.00	29.22	254	84	Horizontal
2	4824.5	55.26	32.39	-45.54	42.11	54.00	11.89	136	84	Horizontal
3	7236.0000	46.58	36.58	-43.54	39.62	74.00	34.38	251	360	Horizontal
4	9648.0000	43.89	38.39	-39.56	42.72	74.00	31.28	148	55	Horizontal

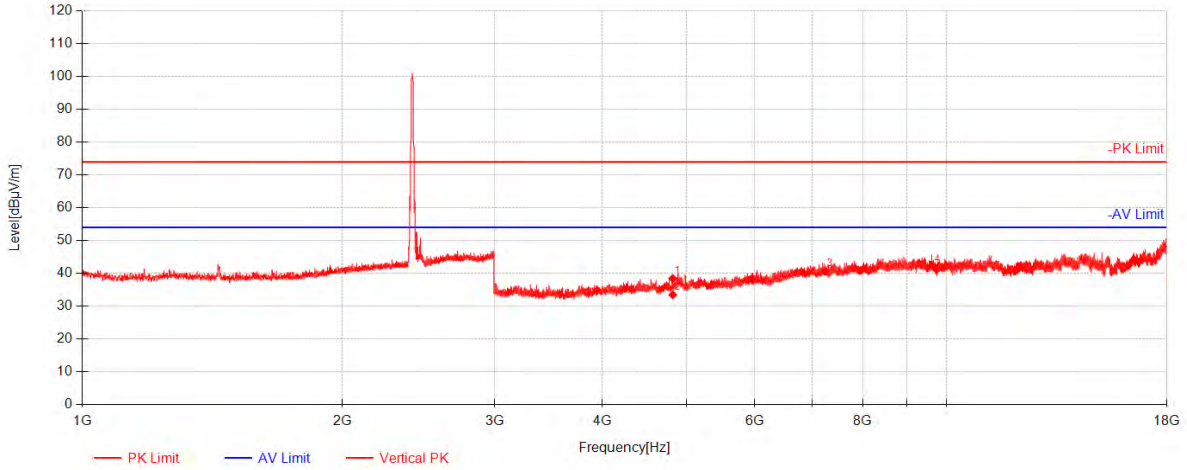


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802.11b_Channel 01



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	51.59	32.39	-45.54	38.44	74.00	35.56	255	3	Vertical
2	4824.5	46.59	32.39	-45.54	33.44	54.00	20.56	184	277	Vertical
3	7236.0000	47.59	36.58	-43.54	40.63	74.00	33.37	175	53	Vertical
4	9648.0000	43.24	38.39	-39.56	42.07	74.00	31.93	169	360	Vertical

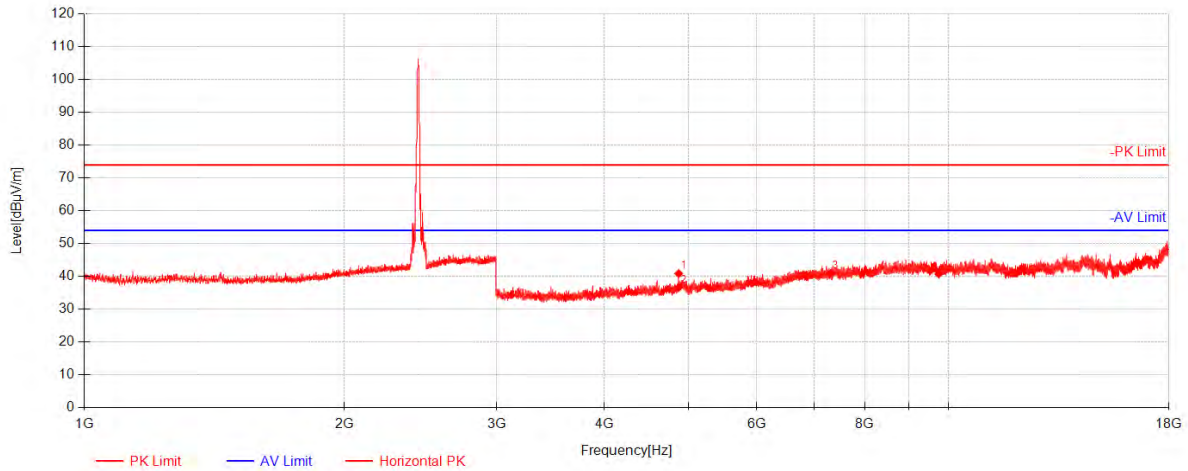


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802.11b_Channel 06



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	53.86	32.53	-45.53	40.85	74.00	33.15	174	156	Horizontal
2	4874.5	49.58	32.53	-45.53	36.58	54.00	17.42	186	54	Horizontal
3	7311.0000	48.09	36.54	-43.71	40.92	74.00	33.08	259	194	Horizontal
4	9748.0000	41.89	38.28	-39.46	40.71	74.00	33.29	194	196	Horizontal

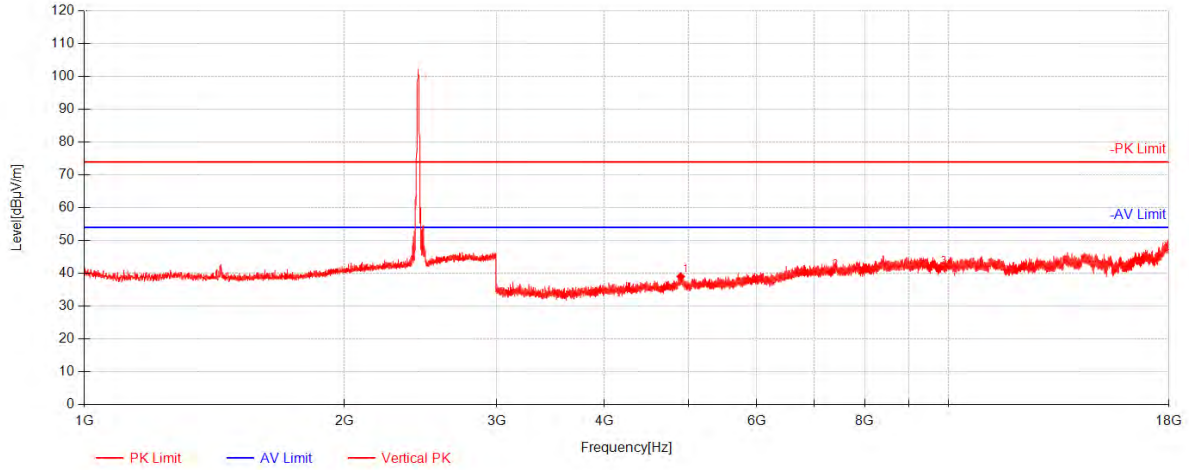


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802.11b_Channel 06



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	4901	51.96	32.60	-45.53	39.03	74.00	34.97	215	111	Vertical
2	7311.0000	47.54	36.54	-43.71	40.37	74.00	33.63	175	352	Vertical
3	9748.0000	42.70	38.28	-39.46	41.52	74.00	32.48	139	360	Vertical

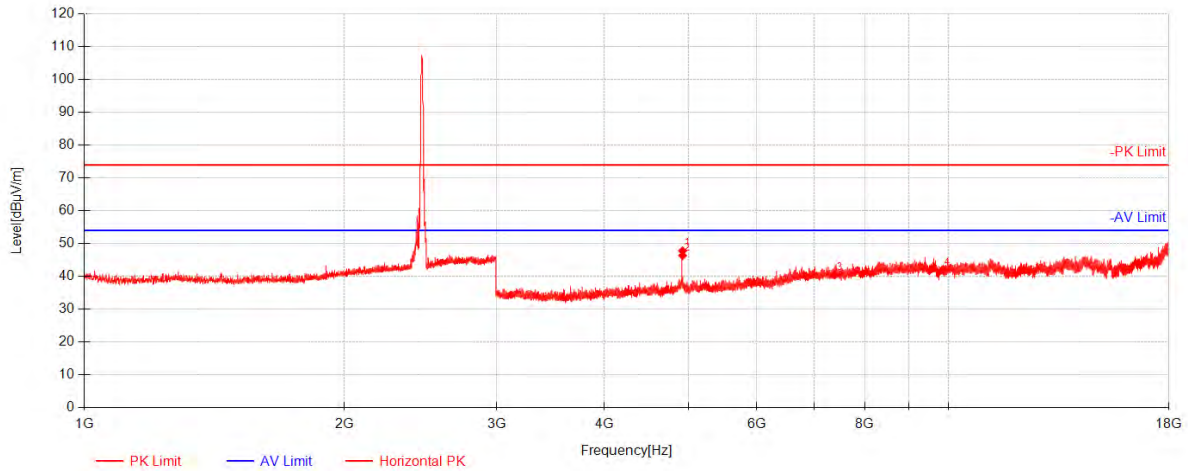


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802.11b_Channel 11



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	60.69	32.67	-45.56	47.80	74.00	26.20	245	85	Horizontal
2	4924.5	59.22	32.67	-45.56	46.33	54.00	7.67	136	55	Horizontal
3	7386.0000	47.32	36.50	-43.46	40.36	74.00	33.64	256	194	Horizontal
4	9848.0000	43.12	38.28	-39.41	42.00	74.00	32.00	211	359	Horizontal

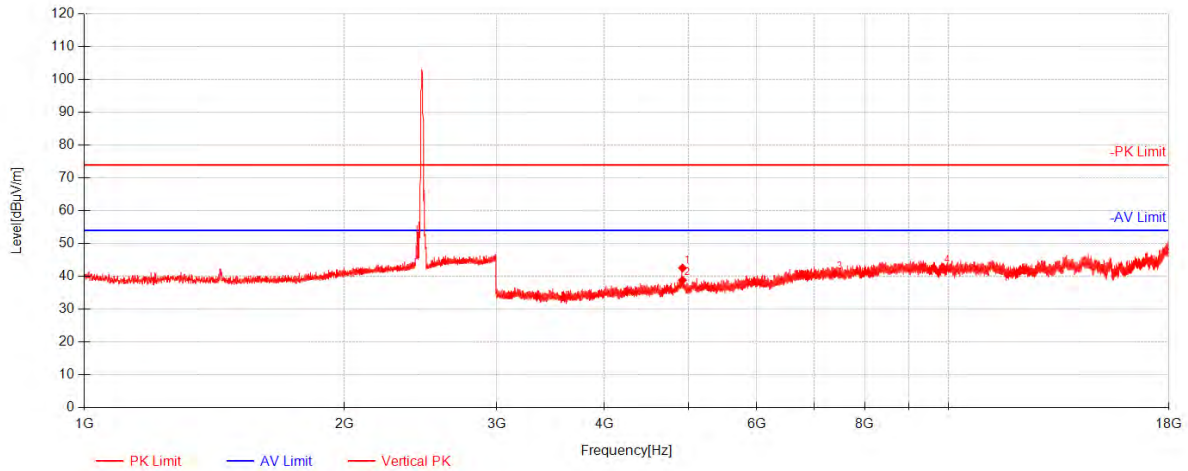


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802.11b_Channel 11



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	55.42	32.67	-45.56	42.53	74.00	31.47	188	335	Vertical
2	4924.5	51.74	32.67	-45.56	38.85	54.00	15.15	198	156	Vertical
3	7386.0000	47.70	36.50	-43.46	40.74	74.00	33.26	152	306	Vertical
4	9848.0000	43.92	38.28	-39.41	42.80	74.00	31.20	170	195	Vertical

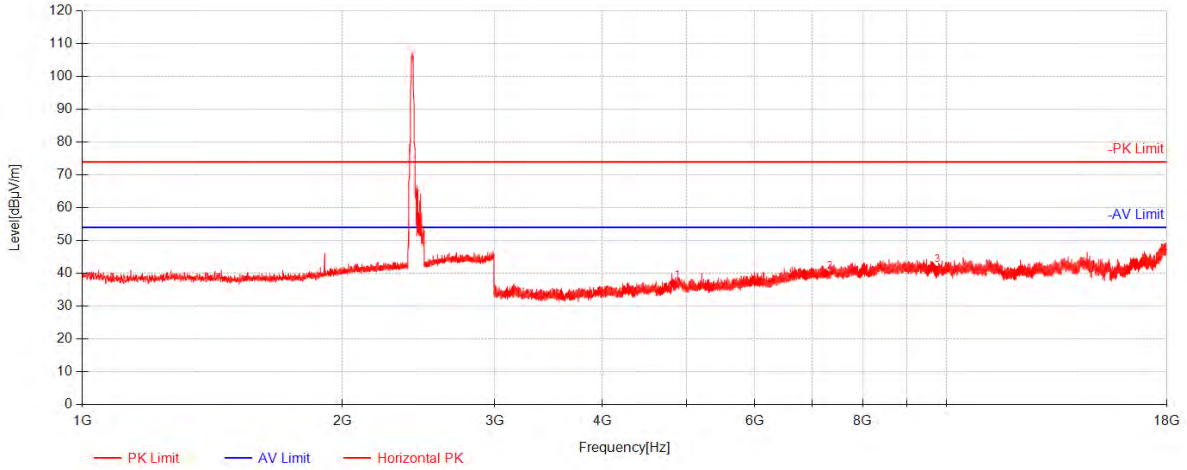


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802.11g_Channel 01



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	4824.0000	50.23	32.39	-45.54	37.08	74.00	36.92	211	86	Horizontal
2	7236.0000	46.87	36.58	-43.54	39.91	74.00	34.09	158	306	Horizontal
3	9648.0000	43.11	38.39	-39.56	41.94	74.00	32.06	172	86	Horizontal

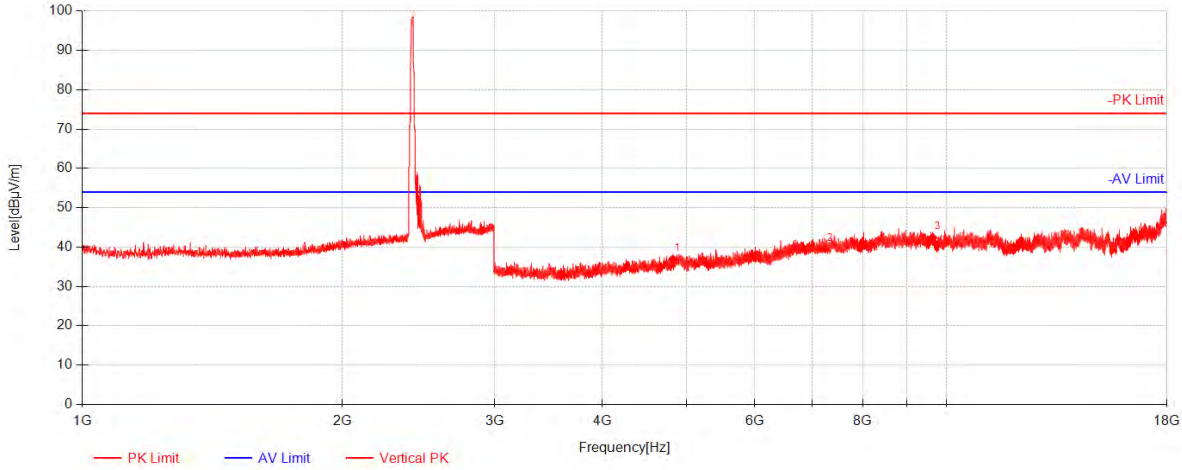


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802.11g_Channel 01



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	4824.0000	50.17	32.39	-45.54	37.02	74.00	36.98	254	252	Vertical
2	7236.0000	46.55	36.58	-43.54	39.59	74.00	34.41	148	60	Vertical
3	9648.0000	43.59	38.39	-39.56	42.42	74.00	31.58	179	0	Vertical

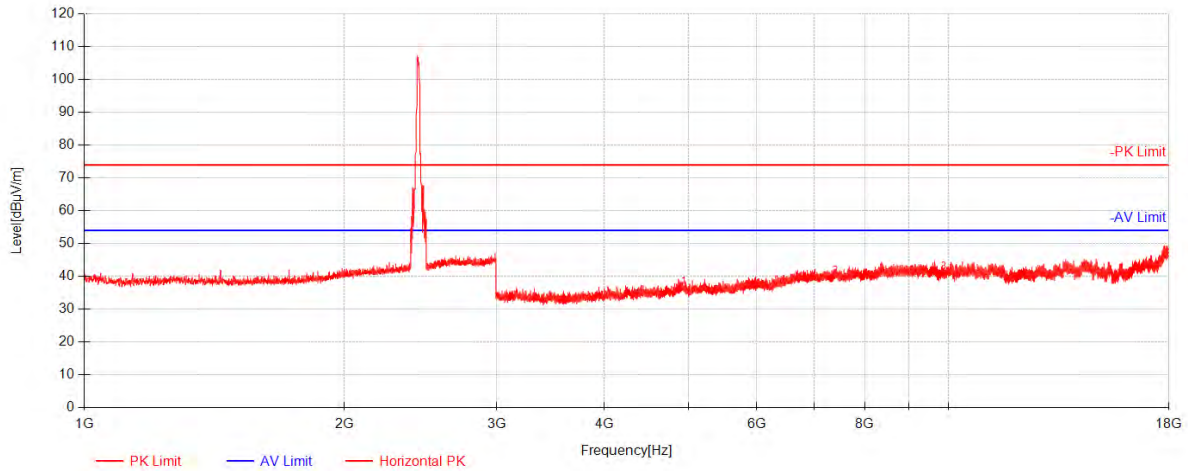


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802.11g_Channel 06



Data List										
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1	4874.0000	48.98	32.53	-45.53	35.97	74.00	38.03	254	224	Horizontal
2	7311.0000	46.63	36.54	-43.71	39.46	74.00	34.54	188	168	Horizontal
3	9748.0000	41.94	38.28	-39.46	40.76	74.00	33.24	176	305	Horizontal

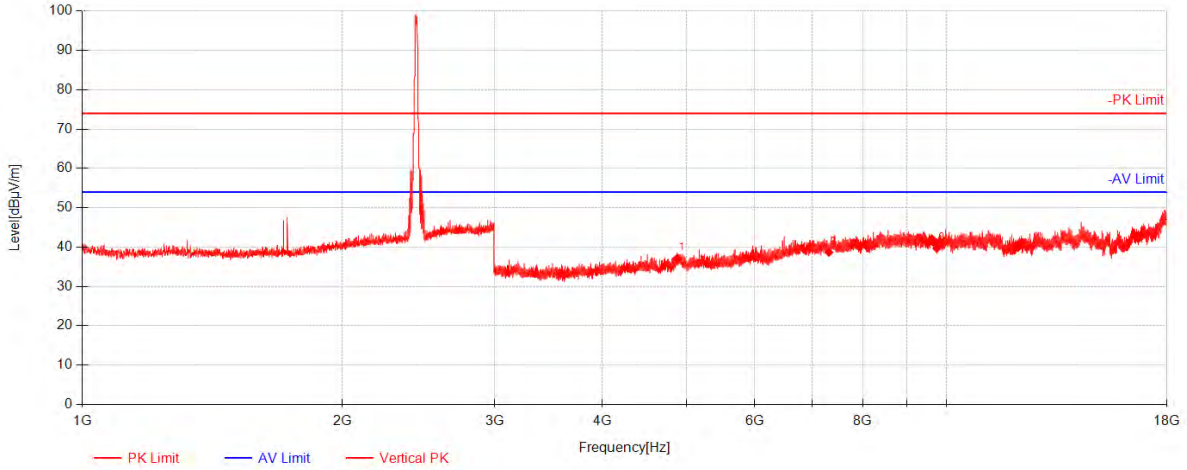


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802.11g_Channel 06



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	4874.0000	50.07	32.53	-45.53	37.06	74.00	36.94	245	334	Vertical
2	7311.0000	45.82	36.54	-43.71	38.65	74.00	35.35	175	110	Vertical
3	9748.0000	40.82	38.28	-39.46	39.64	74.00	34.36	126	81	Vertical

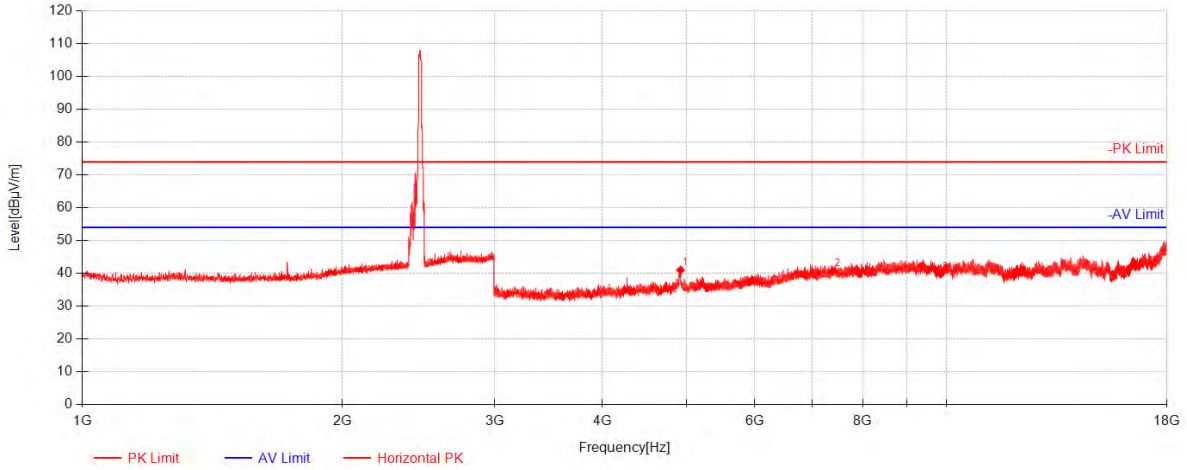


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802.11g_Channel 11



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	4924.0000	53.89	32.67	-45.56	41.00	74.00	33.00	142	25	Horizontal
2	7386.0000	47.64	36.50	-43.46	40.68	74.00	33.32	158	109	Horizontal
3	9848.0000	40.88	38.28	-39.41	39.76	74.00	34.24	193	136	Horizontal

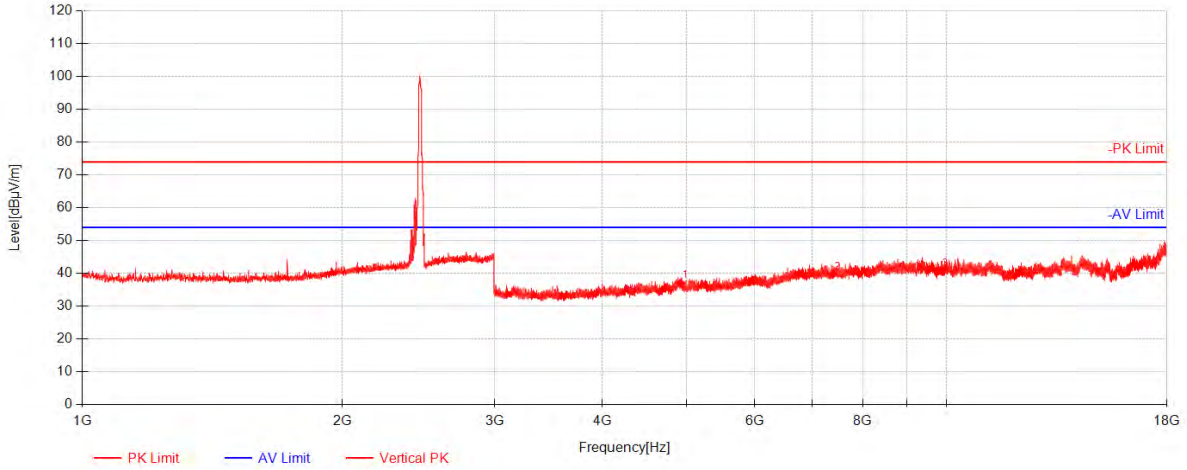


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802.11g_Channel 11



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	49.97	32.67	-45.56	37.08	74.00	36.92	211	221	Vertical
2	7386.0000	46.58	36.50	-43.46	39.62	74.00	34.38	154	136	Vertical
3	9848.0000	41.91	38.28	-39.41	40.79	74.00	33.21	128	26	Vertical

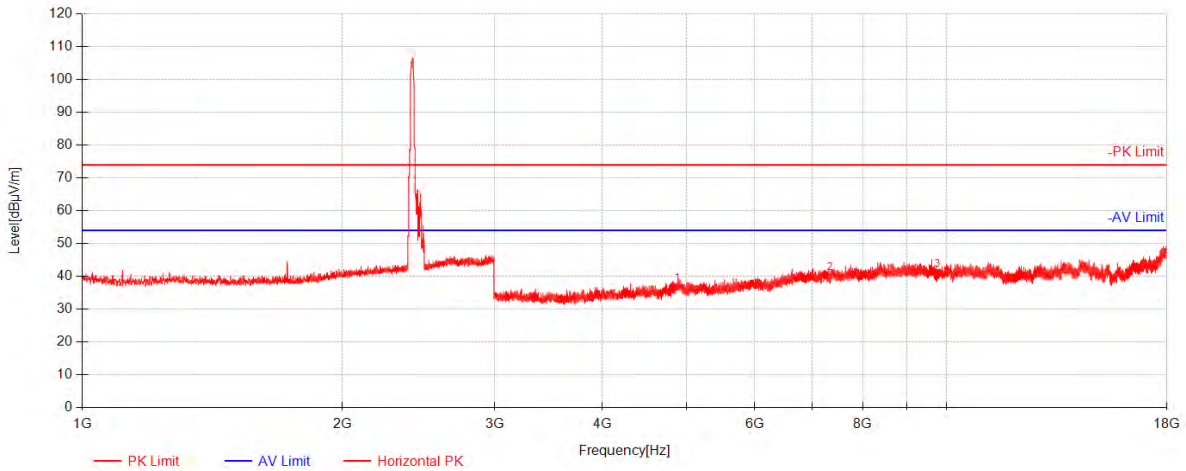


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802.11g_Channel 01



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	4824.0000	50.23	32.39	-45.54	37.08	74.00	36.92	248	305	Horizontal
2	7236.0000	47.54	36.58	-43.54	40.58	74.00	33.42	135	136	Horizontal
3	9648.0000	42.77	38.39	-39.56	41.60	74.00	32.40	216	7	Horizontal

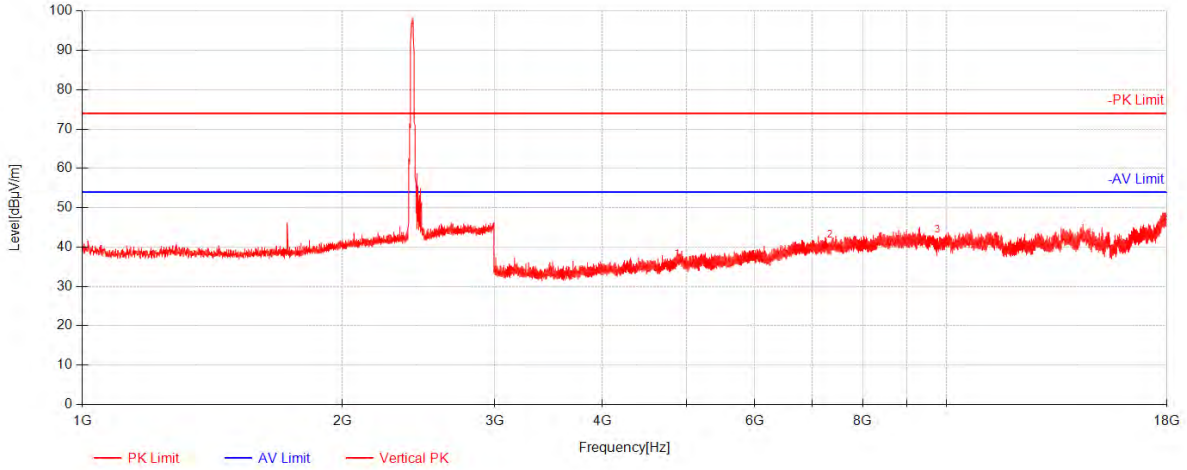


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802.11n20_Channel 01



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	48.50	32.39	-45.54	35.35	74.00	38.65	218	357	Vertical
2	7236.0000	47.43	36.58	-43.54	40.47	74.00	33.53	189	25	Vertical
3	9648.0000	42.74	38.39	-39.56	41.57	74.00	32.43	183	6	Vertical

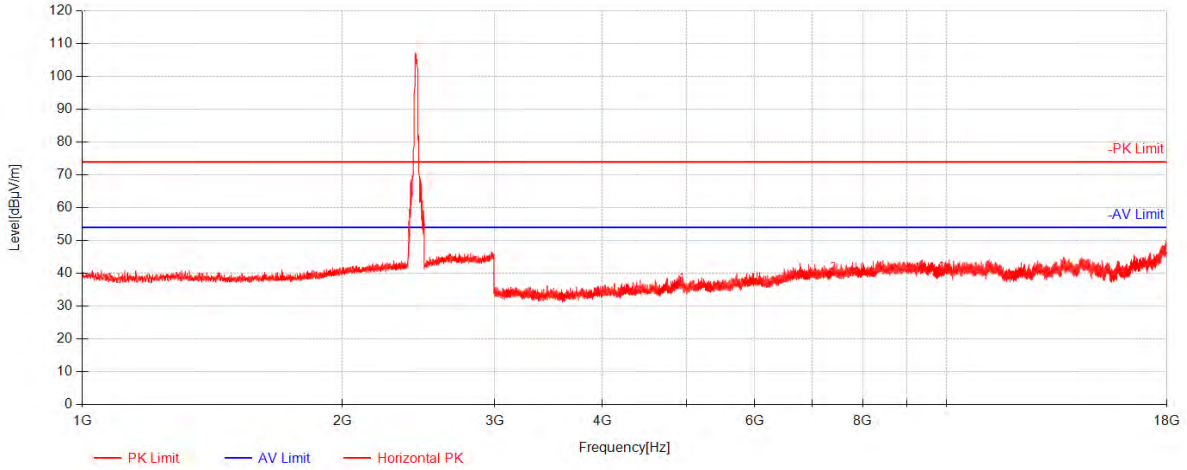


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802.11n20_Channel 06



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	49.40	32.53	-45.53	36.39	74.00	37.61	155	79	Horizontal
2	7311.0000	46.87	36.54	-43.71	39.70	74.00	34.30	175	22	Horizontal
3	9748.0000	40.81	38.28	-39.46	39.63	74.00	34.37	142	0	Horizontal

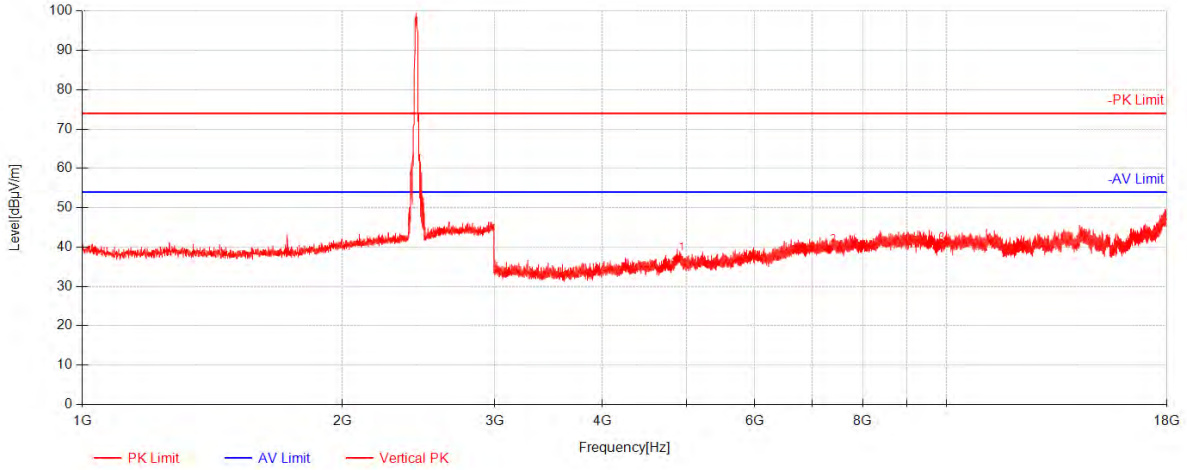


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802.11n20_Channel 06



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	4874.0000	50.10	32.53	-45.53	37.09	74.00	36.91	211	26	Vertical
2	7311.0000	46.57	36.54	-43.71	39.40	74.00	34.60	148	7	Vertical
3	9748.0000	40.95	38.28	-39.46	39.77	74.00	34.23	186	26	Vertical

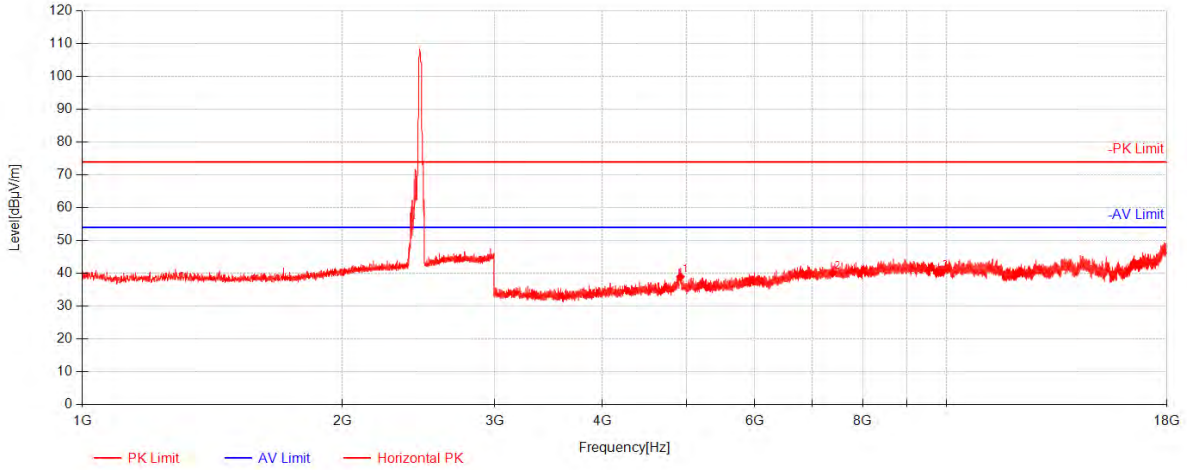


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802.11n20_Channel 11



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	4924.0000	51.85	32.67	-45.56	38.96	74.00	35.04	241	139	Horizontal
2	7386.0000	47.02	36.50	-43.46	40.06	74.00	33.94	186	84	Horizontal
3	9848.0000	41.36	38.28	-39.41	40.24	74.00	33.76	291	357	Horizontal

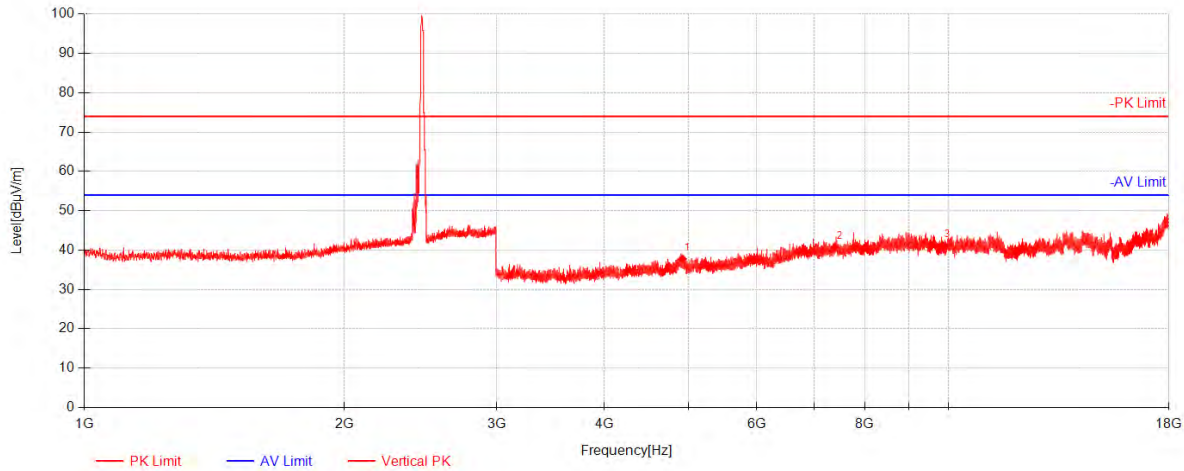


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802.11n20_Channel 11



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	4924.0000	50.66	32.67	-45.56	37.77	74.00	36.23	125	194	Vertical
2	7386.0000	47.71	36.50	-43.46	40.75	74.00	33.25	148	139	Vertical
3	9848.0000	42.33	38.28	-39.41	41.21	74.00	32.79	136	250	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier 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) - Pre-amplifier gain(dB)
 Margin = Limit(dBµV/m) – Level(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"

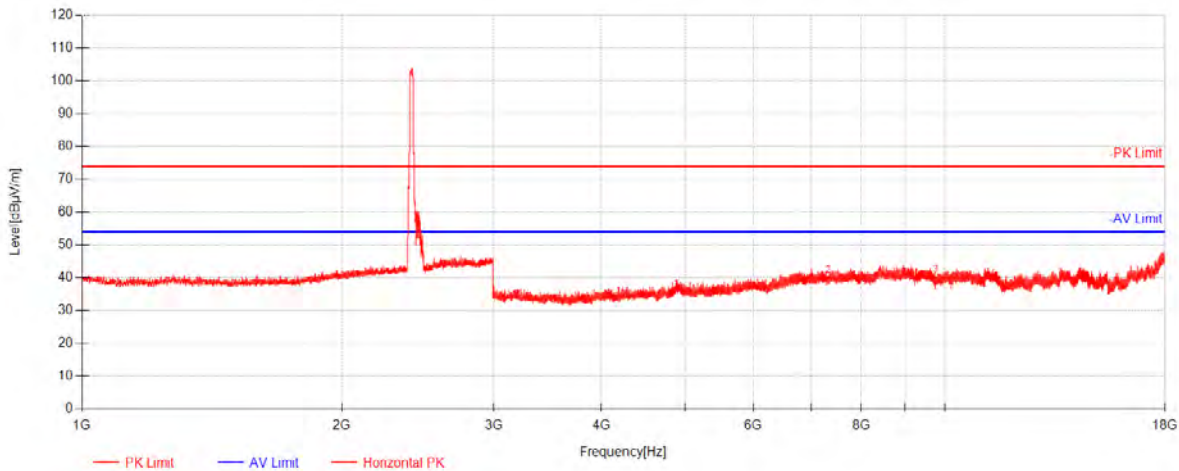


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Test on the worst case:

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	48.64	32.39	-45.54	35.49	74.00	38.51	254	165	Horizontal
2	7236.0000	46.80	36.58	-43.54	39.84	74.00	34.16	126	249	Horizontal
3	9648.0000	41.33	38.39	-39.56	40.16	74.00	33.84	136	0	Horizontal

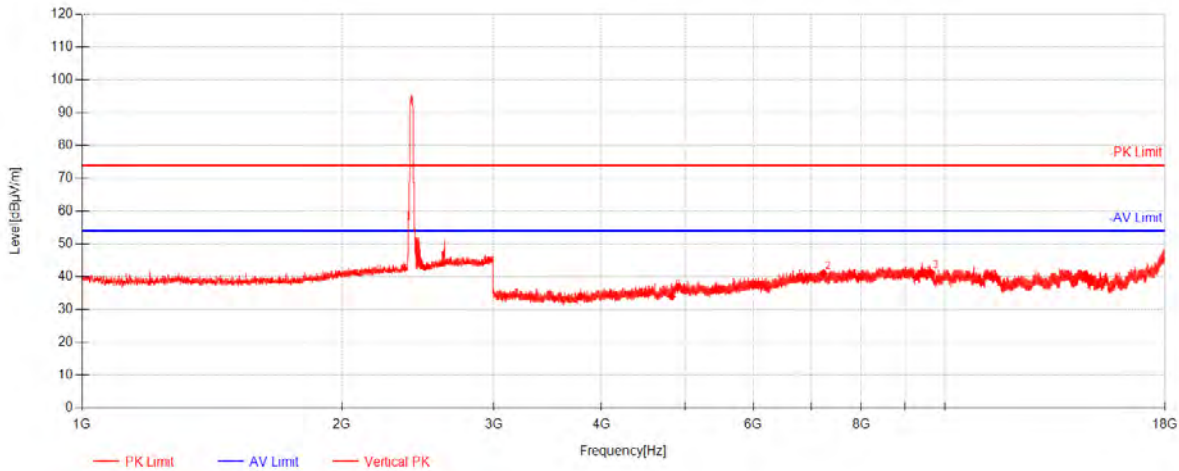


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802.11n20_Channel 01



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	47.12	32.39	-45.54	33.97	74.00	40.03	155	250	Vertical
2	7236.0000	47.93	36.58	-43.54	40.97	74.00	33.03	174	110	Vertical
3	9648.0000	42.35	38.39	-39.56	41.18	74.00	32.82	196	138	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)
- Both peak and average measured complies with the limit line, so test result is "PASS"

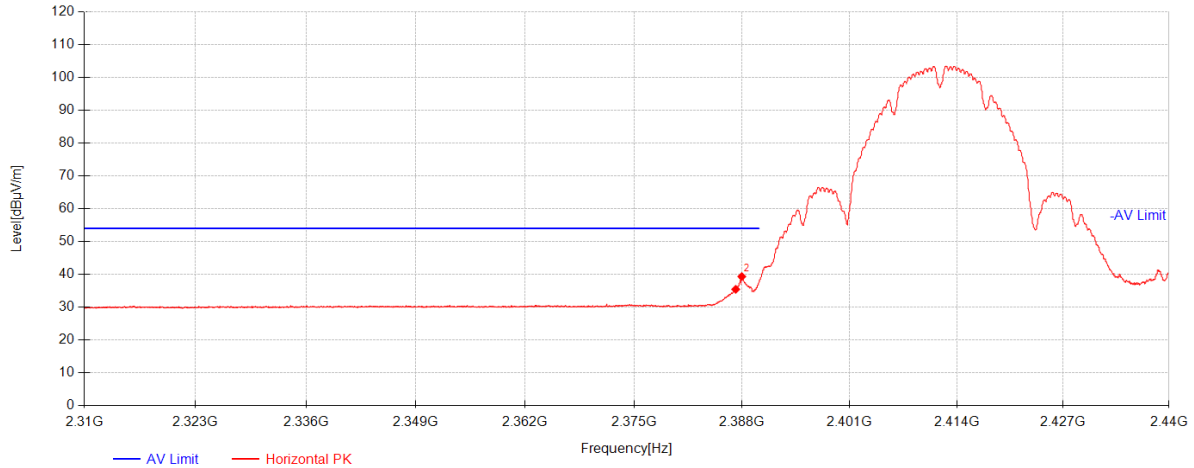


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Restricted bands around fundamental frequency

802.11b_Channel 01



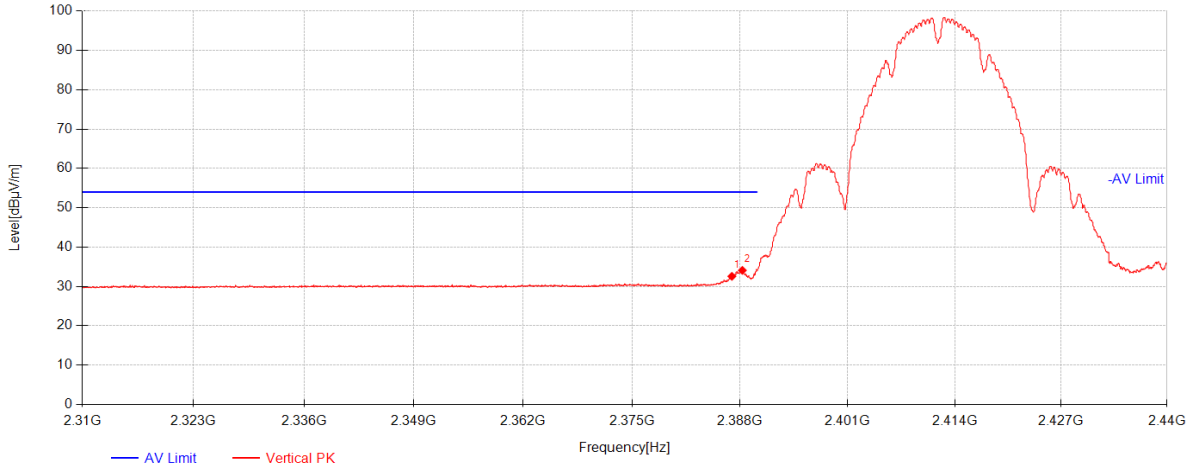
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.22	31.57	27.43	-23.57	35.43	54.00	18.57	155	263	Horizontal
2	2387.9567	35.47	27.43	-23.57	39.33	54.00	14.67	155	263	Horizontal



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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	2387.0033	28.71	27.43	-23.57	32.57	54.00	21.43	169	234	Vertical
2	2388.26	30.23	27.43	-23.57	34.09	54.00	19.91	169	234	Vertical

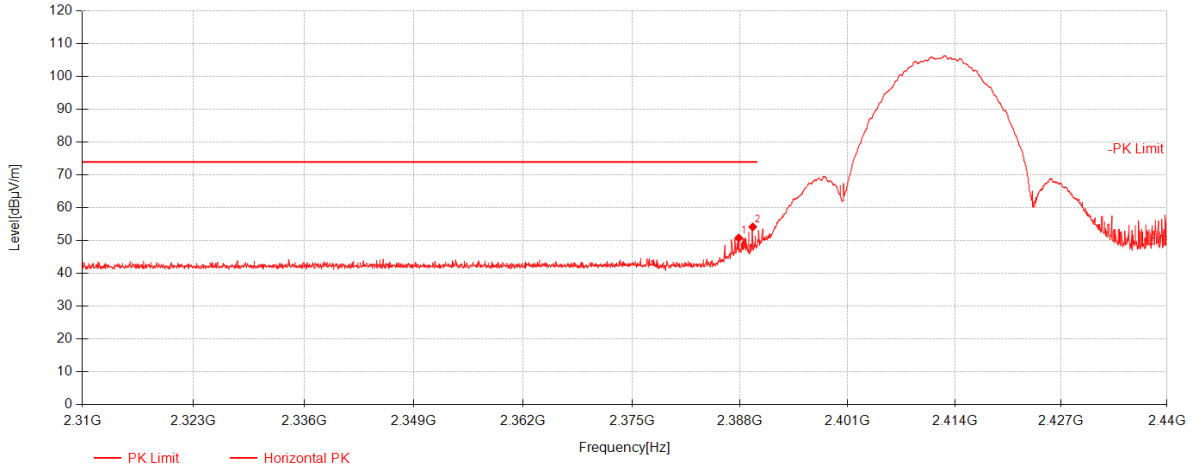


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802.11b_Channel 01



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	2387.8267	46.92	27.43	-23.57	50.78	74.00	23.22	155	263	Horizontal
2	2389.5167	50.30	27.43	-23.57	54.16	74.00	19.84	155	263	Horizontal

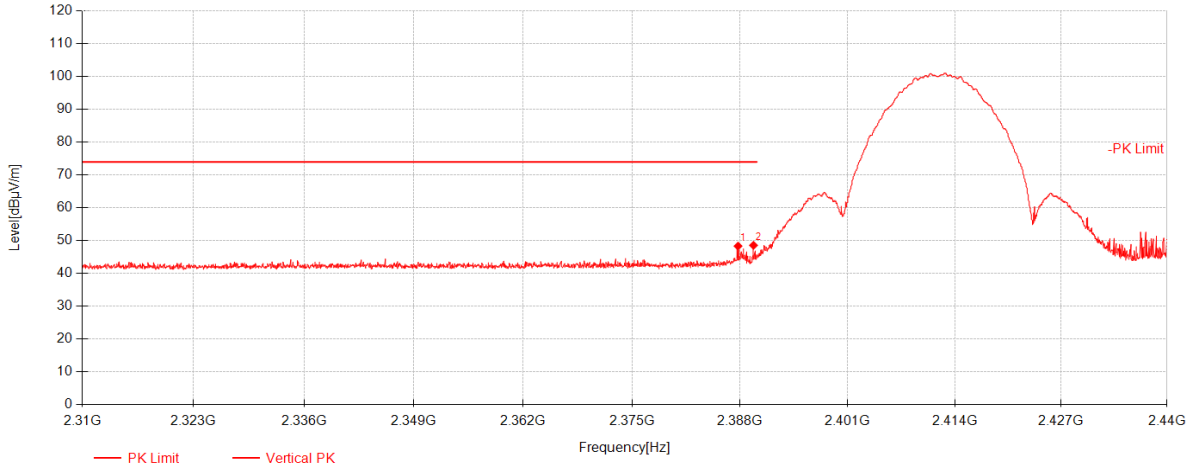


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802.11b_Channel 01



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	2387.74	44.45	27.43	-23.57	48.31	74.00	25.69	169	234	Vertical
2	2389.6033	44.68	27.43	-23.57	48.54	74.00	25.46	169	234	Vertical

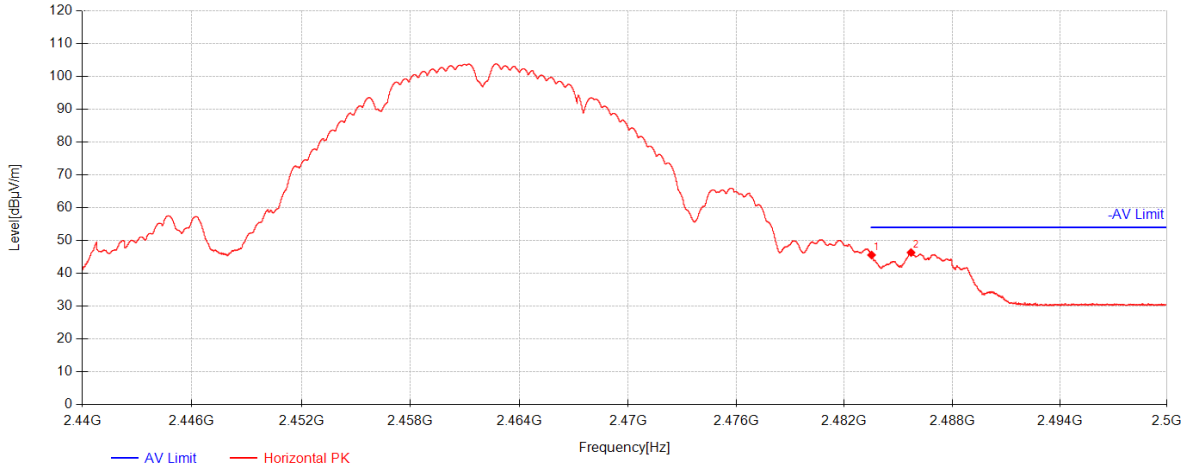


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802.11b_Channel 11



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	2483.515	41.42	27.72	-23.54	45.59	54.00	8.41	174	270	Horizontal
2	2485.7125	42.16	27.72	-23.54	46.34	54.00	7.66	174	270	Horizontal

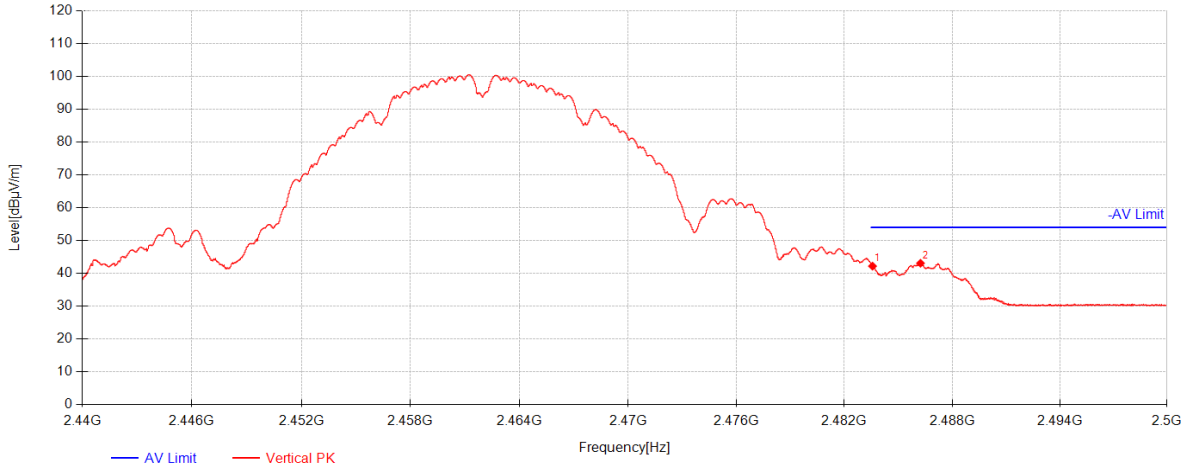


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802.11b_Channel 11



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	2483.5675	38.03	27.72	-23.54	42.20	54.00	11.80	126	240	Vertical
2	2486.2375	38.90	27.72	-23.54	43.08	54.00	10.92	126	240	Vertical

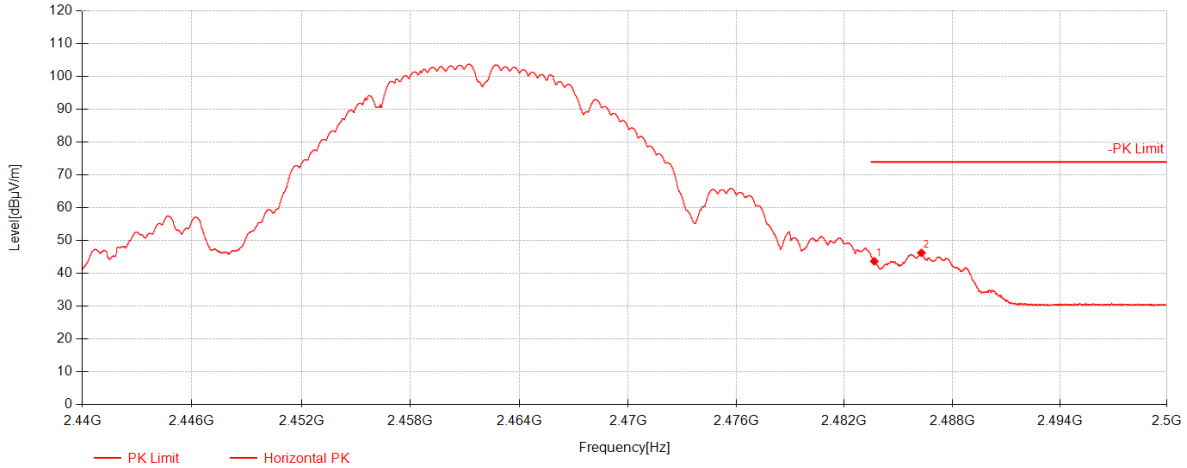


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802.11b_Channel 11



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	2483.665	39.51	27.72	-23.54	43.68	74.00	30.32	174	270	Horizontal
2	2486.29	42.06	27.72	-23.54	46.24	74.00	27.76	174	270	Horizontal

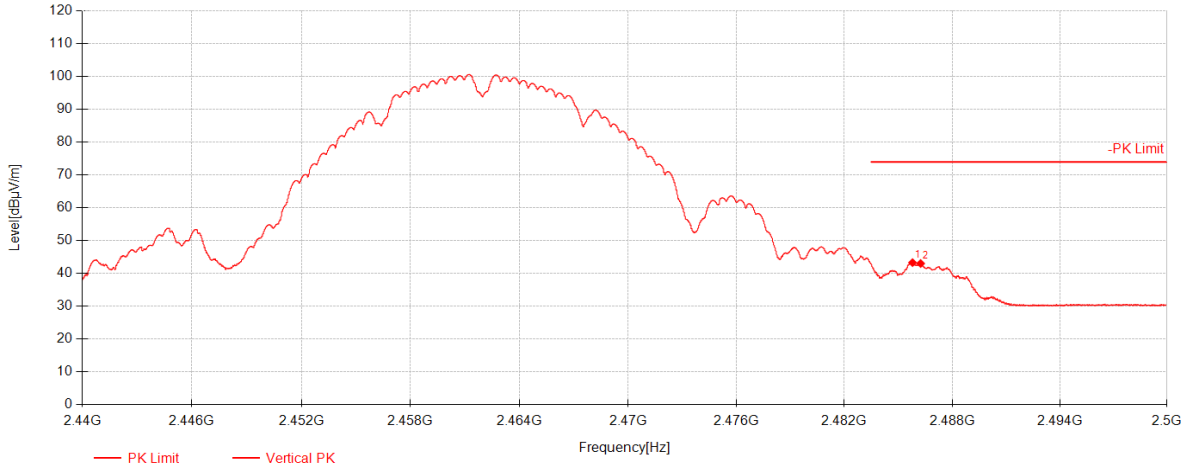


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802.11b_Channel 11



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	2485.795	39.09	27.72	-23.54	43.27	74.00	30.73	126	240	Vertical
2	2486.245	38.83	27.72	-23.54	43.01	74.00	30.99	126	240	Vertical

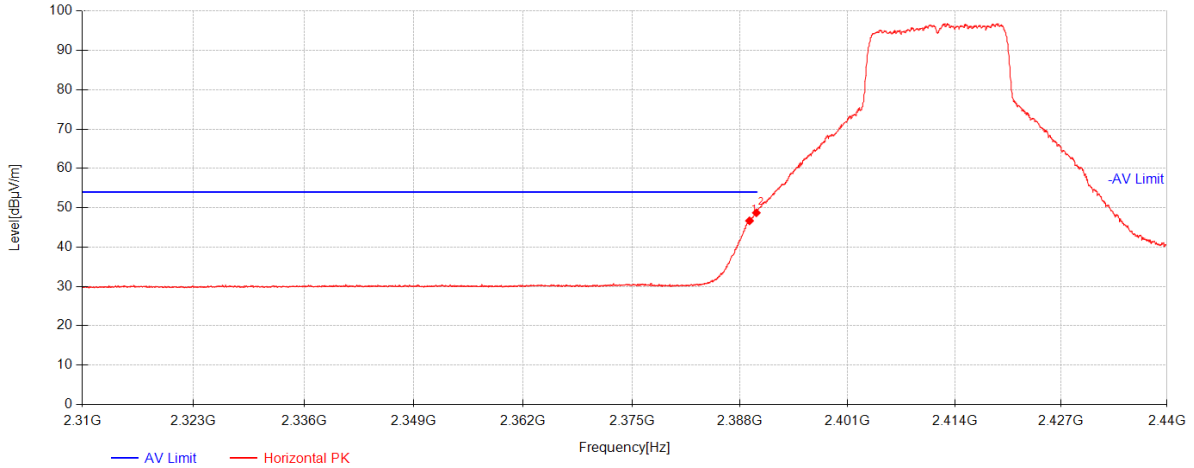


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802.11g_Channel 01



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	2389.1267	42.82	27.43	-23.57	46.68	54.00	7.32	122	273	Horizontal
2	2389.95	44.85	27.43	-23.57	48.71	54.00	5.29	122	273	Horizontal

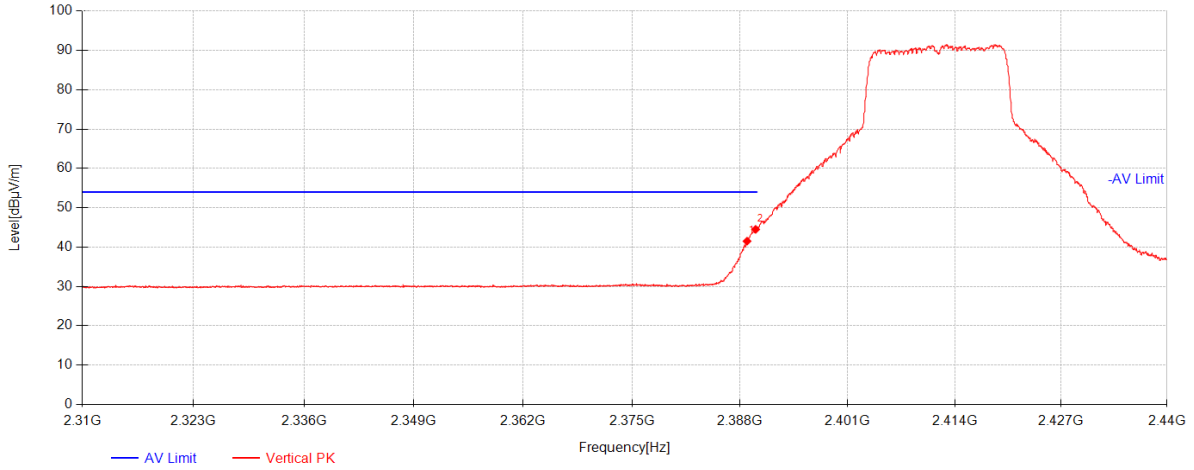


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802.11g_Channel 01



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	2388.8233	37.64	27.43	-23.57	41.50	54.00	12.50	155	236	Vertical
2	2389.8633	40.65	27.43	-23.57	44.51	54.00	9.49	155	236	Vertical

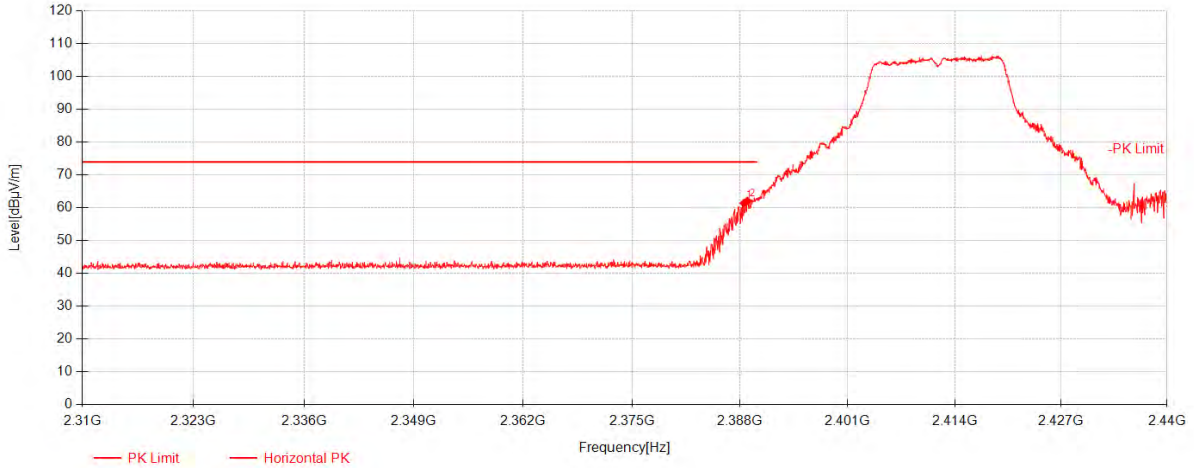


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802.11g_Channel 01



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	2388.4333	57.55	27.43	-23.57	61.41	74.00	12.59	122	273	Horizontal
2	2388.8667	58.22	27.43	-23.57	62.08	74.00	11.92	122	273	Horizontal

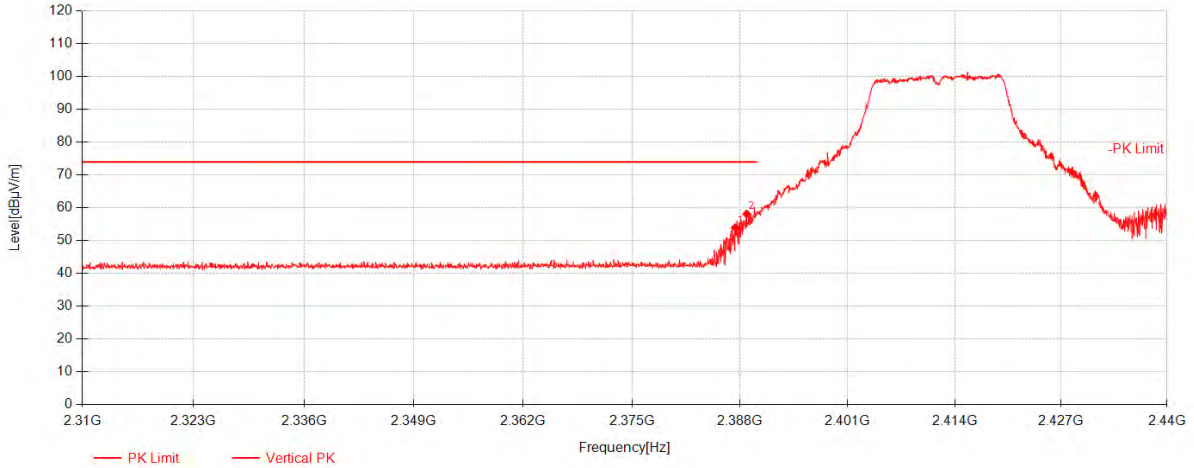


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1	2387.3933	50.06	27.43	-23.57	53.92	74.00	20.08	155	236	Vertical
2	2388.78	54.27	27.43	-23.57	58.13	74.00	15.87	155	236	Vertical

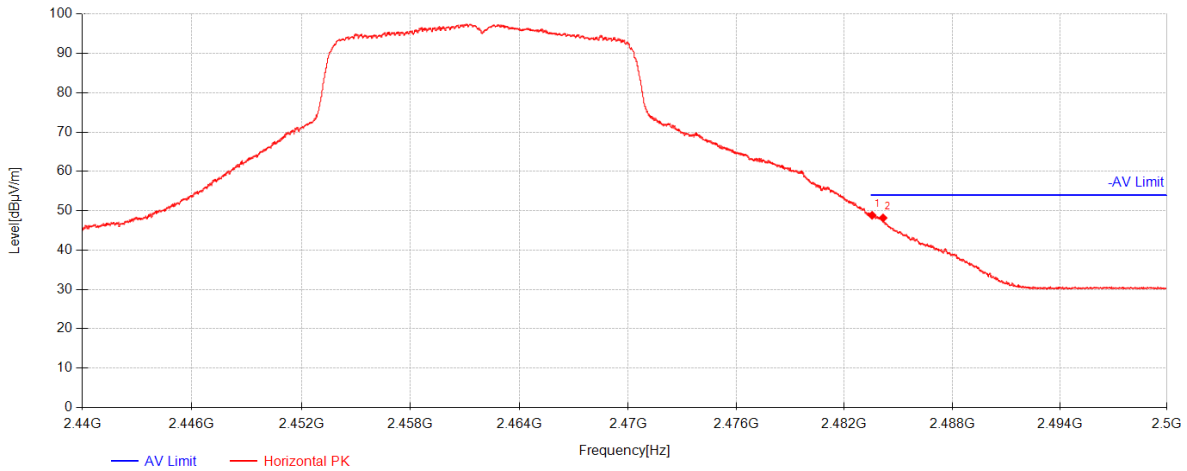


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802.11g_Channel 11



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	2483.545	44.67	27.72	-23.54	48.84	54.00	5.16	145	270	Horizontal
2	2484.1525	44.01	27.72	-23.54	48.18	54.00	5.82	145	270	Horizontal

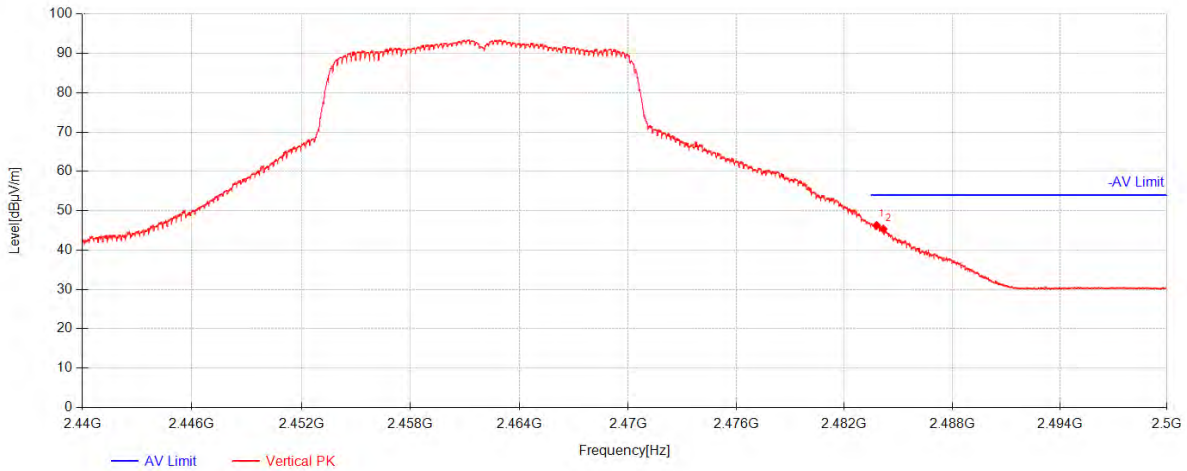


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8	42.10	27.72	-23.54	46.27	54.00	7.73	196	237	Vertical
2	2484.1675	41.21	27.72	-23.54	45.38	54.00	8.62	196	237	Vertical

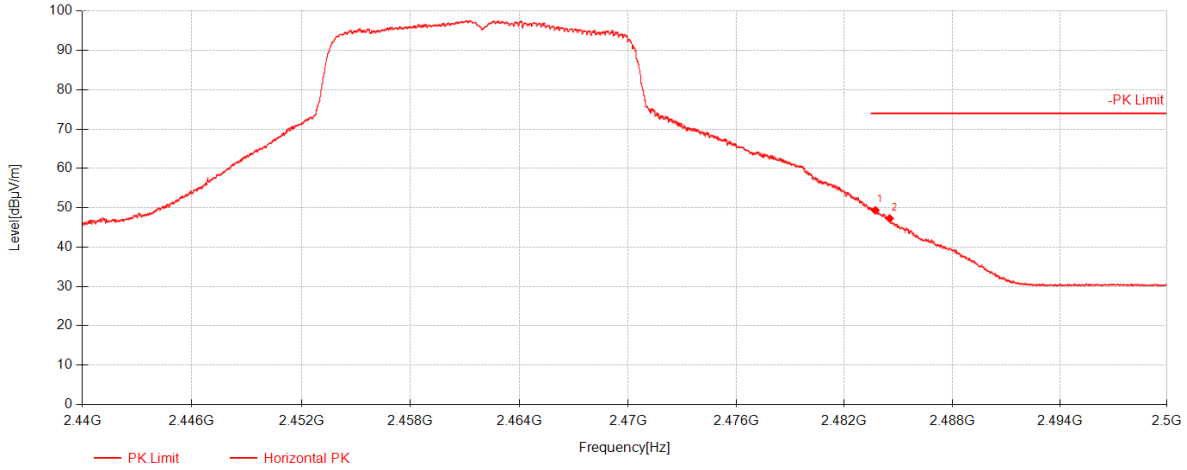


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.725	45.18	27.72	-23.54	49.35	74.00	24.65	145	270	Horizontal
2	2484.52	43.11	27.72	-23.54	47.28	74.00	26.72	145	270	Horizontal

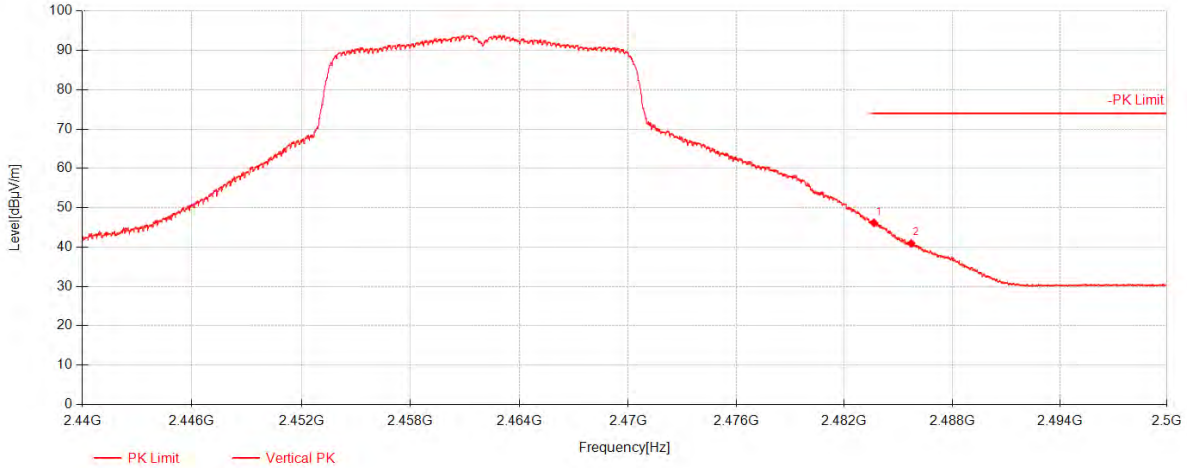


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1	2483.65	41.99	27.72	-23.54	46.16	74.00	27.84	196	237	Vertical
2	2485.72	36.74	27.72	-23.54	40.92	74.00	33.08	196	237	Vertical

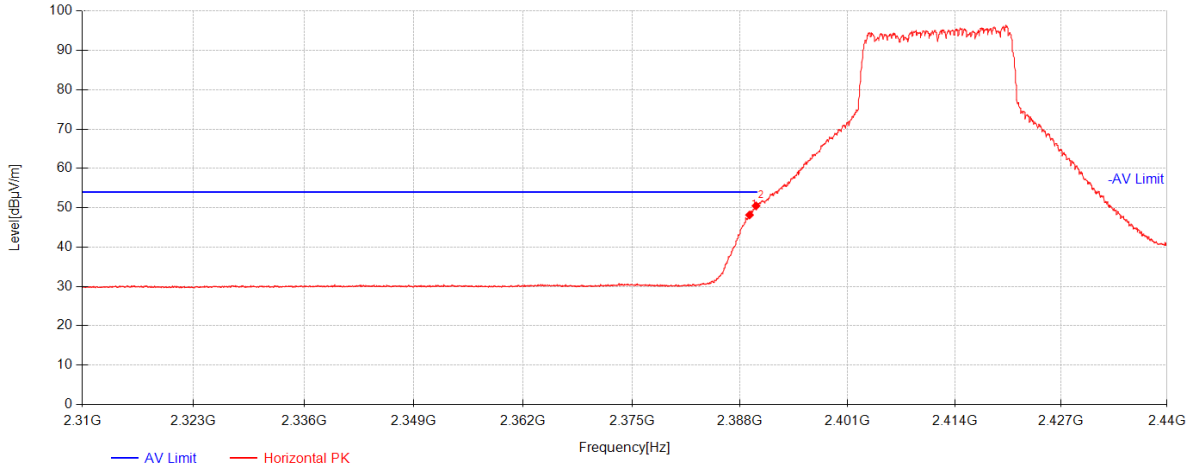


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802.11n20_Channel 01



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	2389.1267	44.30	27.43	-23.57	48.16	54.00	5.84	177	255	Horizontal
2	2389.9067	46.63	27.43	-23.57	50.49	54.00	3.51	177	255	Horizontal

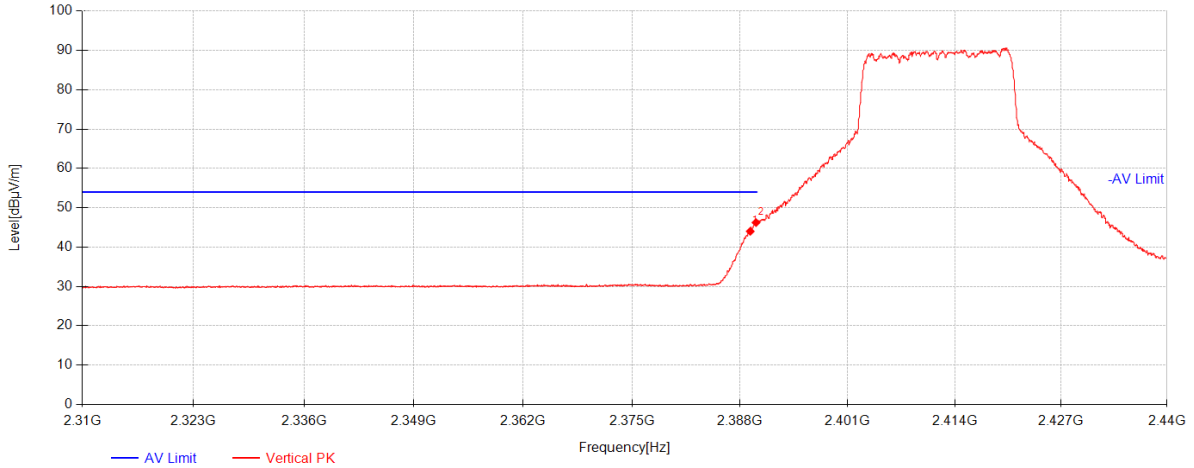


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.2133	40.14	27.43	-23.57	44.00	54.00	10.00	169	233	Vertical
2	2389.9067	42.37	27.43	-23.57	46.23	54.00	7.77	169	233	Vertical

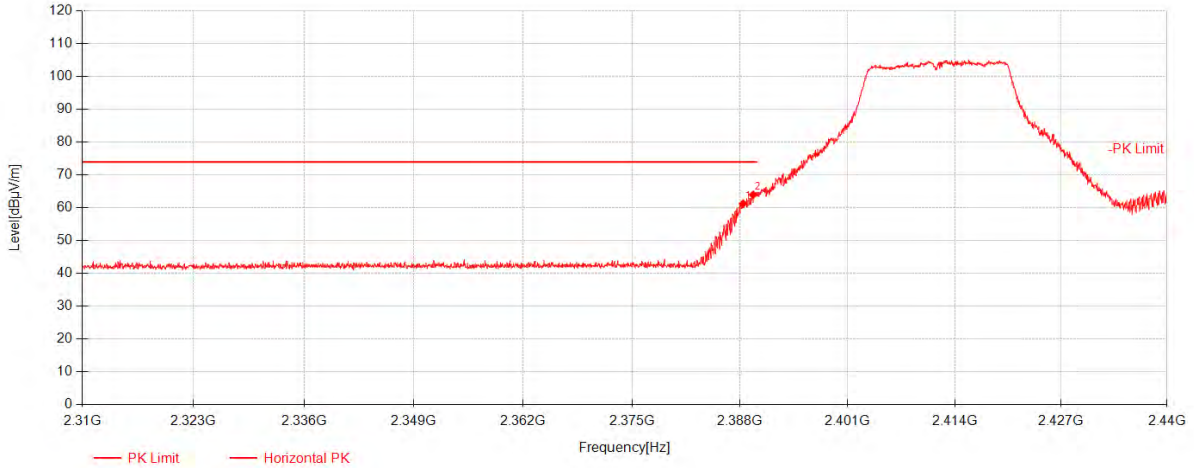


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1	2388.3467	57.40	27.43	-23.57	61.26	74.00	12.74	177	255	Horizontal
2	2389.56	60.10	27.43	-23.57	63.96	74.00	10.04	177	255	Horizontal

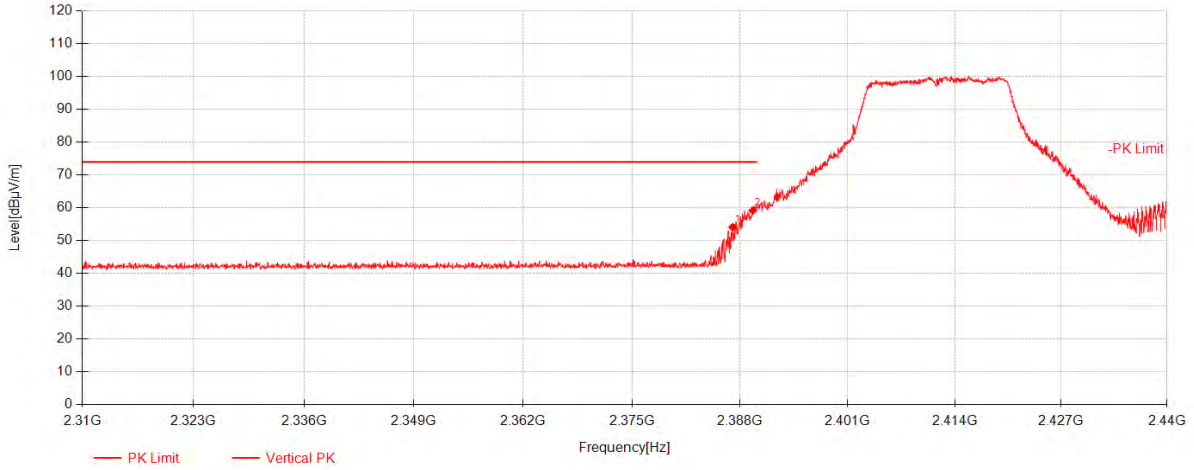


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1	2387.09	50.21	27.43	-23.57	54.07	74.00	19.93	169	233	Vertical
2	2389.5167	55.30	27.43	-23.57	59.16	74.00	14.84	169	233	Vertical

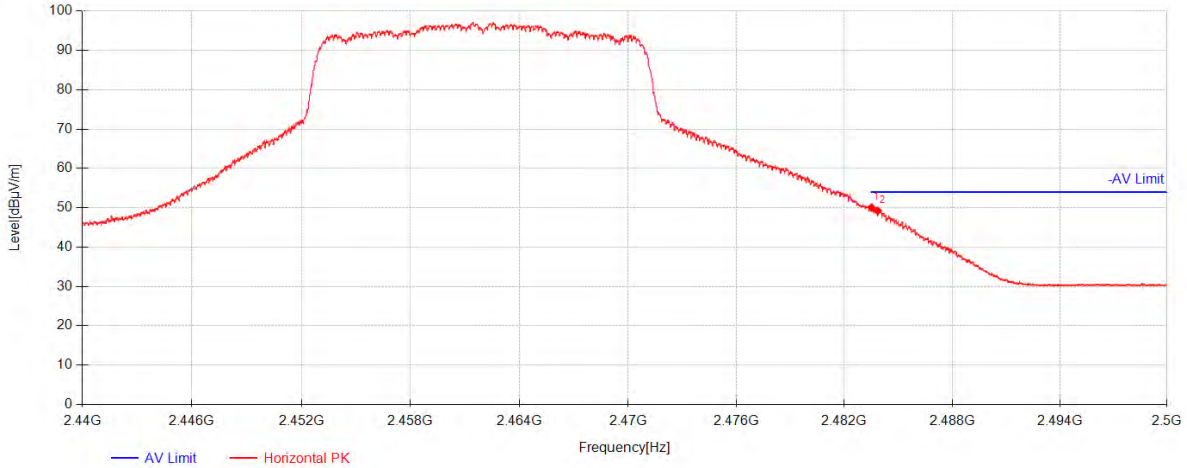


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1	2483.515	45.87	27.72	-23.54	50.04	54.00	3.96	174	270	Horizontal
2	2483.8525	45.05	27.72	-23.54	49.22	54.00	4.78	174	270	Horizontal

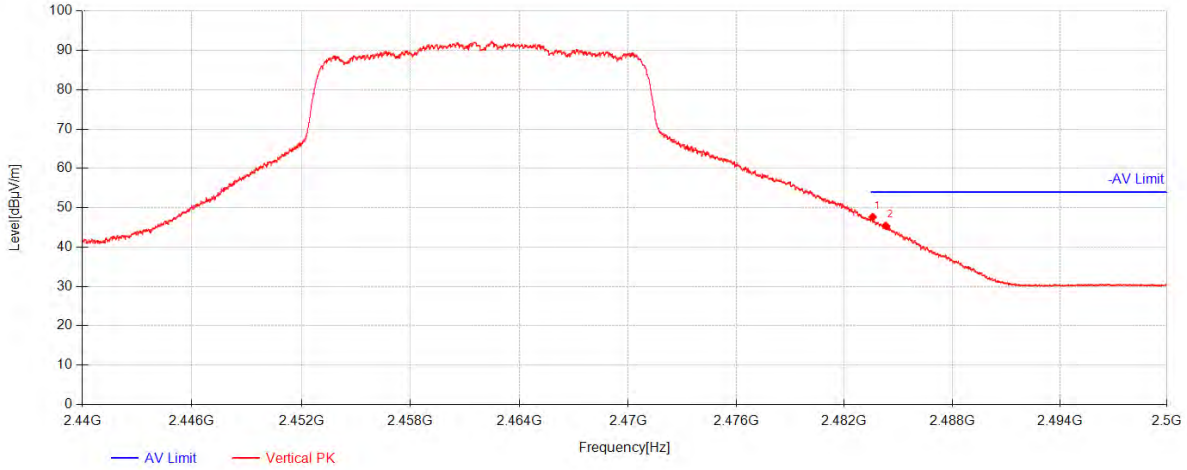


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1	2483.575	43.48	27.72	-23.54	47.65	54.00	6.35	122	238	Vertical
2	2484.3025	41.26	27.72	-23.54	45.43	54.00	8.57	122	238	Vertical

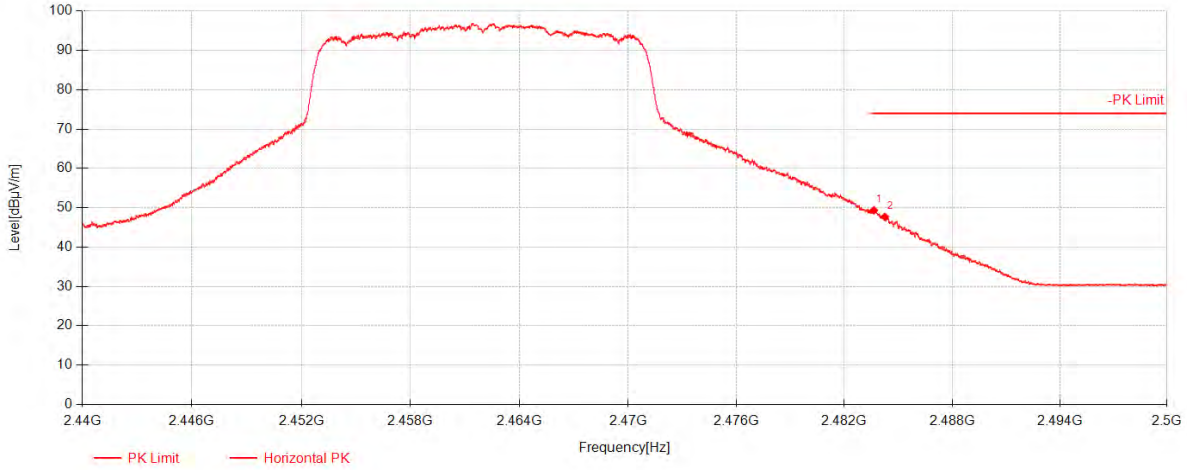


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802.11n20_Channel 11



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	2483.6425	45.19	27.72	-23.54	49.36	74.00	24.64	174	270	Horizontal
2	2484.2575	43.52	27.72	-23.54	47.69	74.00	26.31	174	270	Horizontal

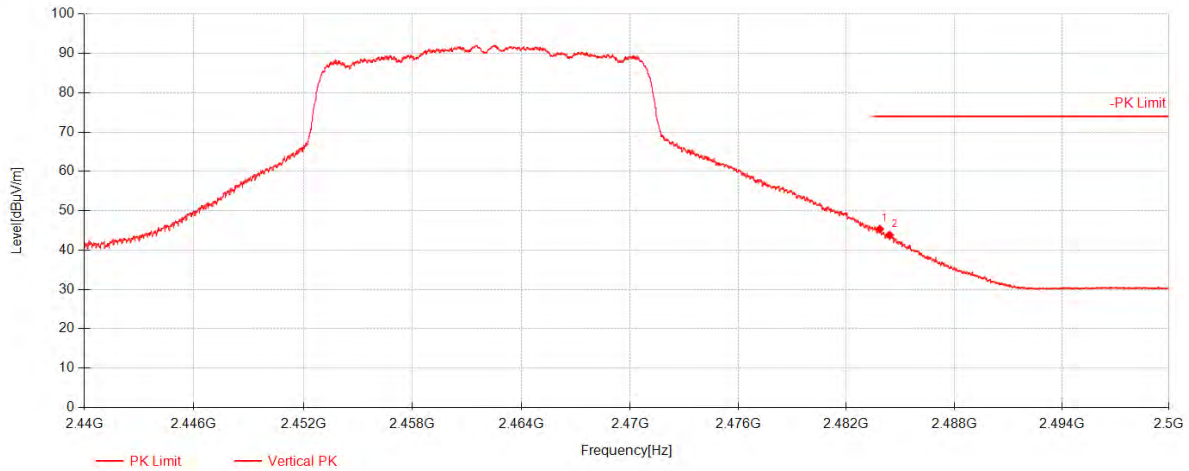


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802.11n20_Channel 11



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	2483.86	41.18	27.72	-23.54	45.35	74.00	28.65	122	238	Vertical
2	2484.4	39.68	27.72	-23.54	43.85	74.00	30.15	122	238	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)
- Both peak and average measured complies with the limit line, so test result is "PASS"

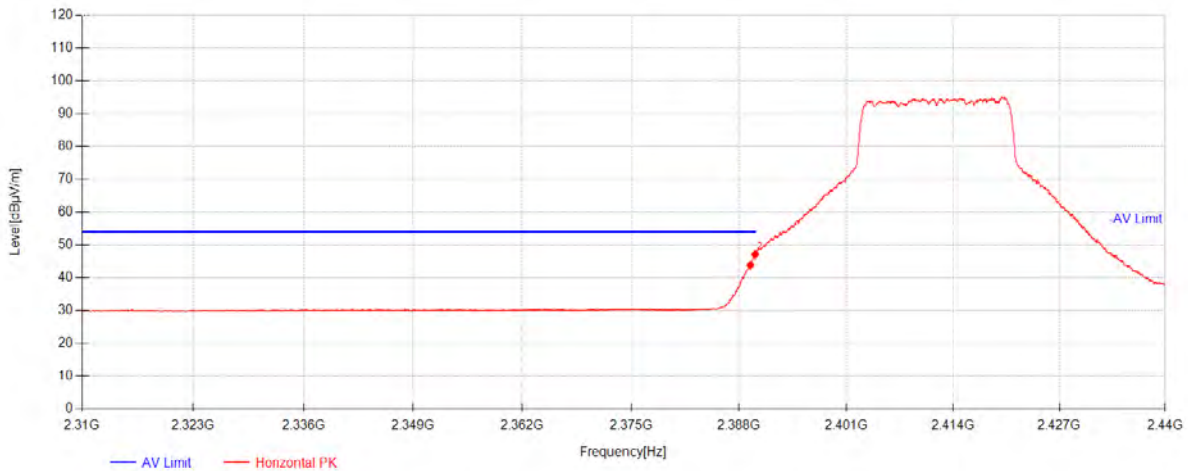


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Test on the worst case:

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	2389.3867	40.01	27.43	-23.57	43.87	54.00	10.13	155	274	Horizontal
2	2389.95	43.22	27.43	-23.57	47.08	54.00	6.92	155	274	Horizontal

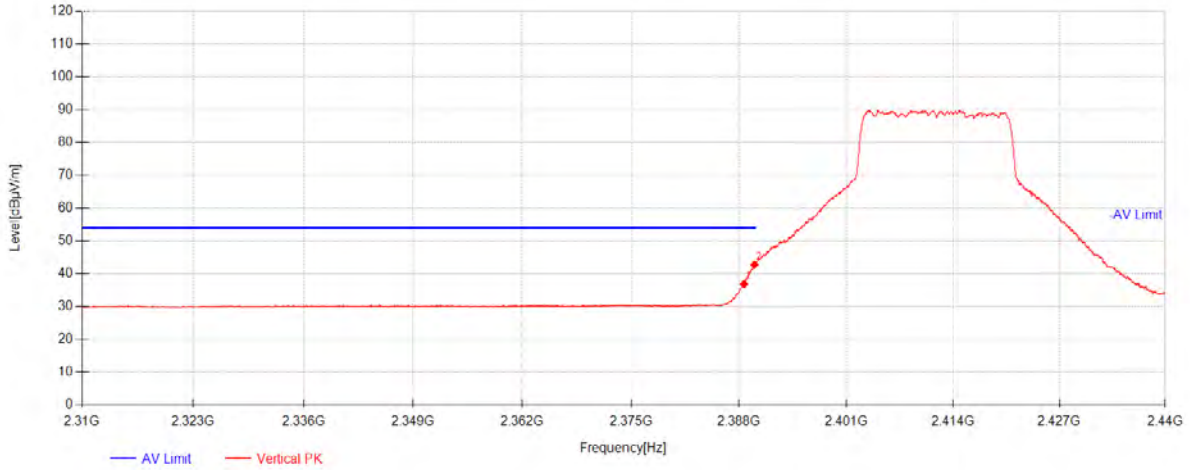


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802.11n20_Channel 01



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	2388.6067	33.01	27.43	-23.57	36.87	54.00	17.13	136	232	Vertical
2	2389.8633	38.89	27.43	-23.57	42.75	54.00	11.25	136	232	Vertical

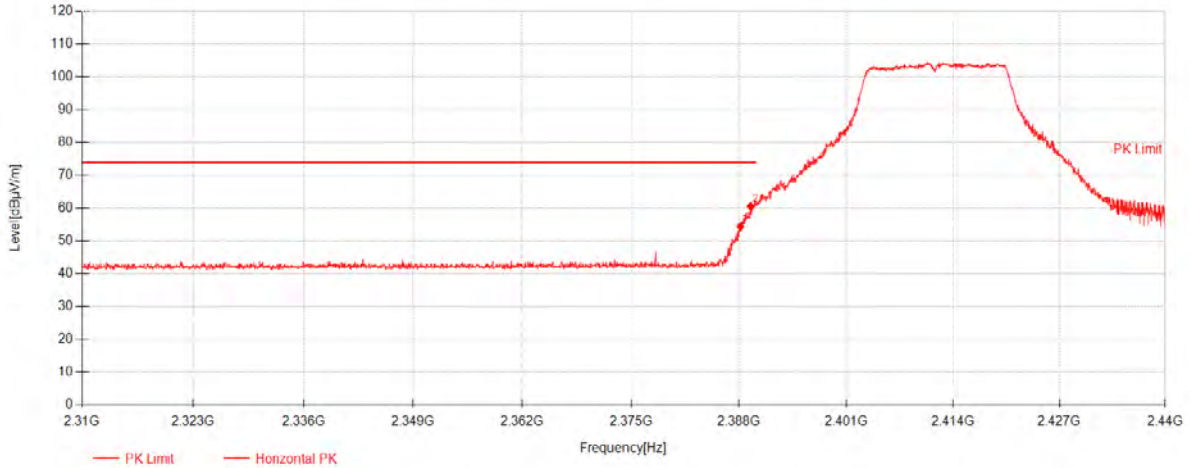


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802.11n20_Channel 01



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	2388.1733	50.56	27.43	-23.57	54.42	74.00	19.58	155	274	Horizontal
2	2389.43	56.71	27.43	-23.57	60.57	74.00	13.43	155	274	Horizontal

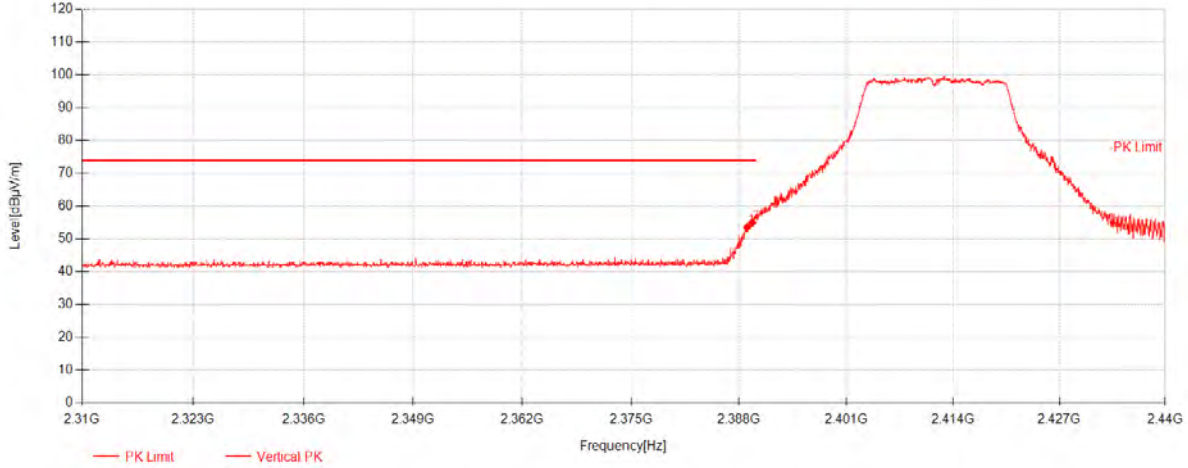


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802.11n20_Channel 01



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	2388.9967	49.72	27.43	-23.57	53.58	74.00	20.42	136	232	Vertical
2	2389.6033	51.11	27.43	-23.57	54.97	74.00	19.03	136	232	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)
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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