

Report No.: SEWM2311000456RG05
 Rev.: 01
 Page: 1 of 93

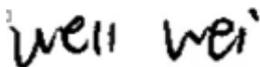
TEST REPORT

Application No.: SEWM2311000456RG
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.: 23124RN87G
Trade Mark: Redmi
FCC ID: 2AFZZN87G
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/11/13
Date of Test: 2023/11/14 to 2023/12/01
Date of Issue: 2023/12/15

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

Authorized Signature:



Well Wei
 Wireless Laboratory Manager



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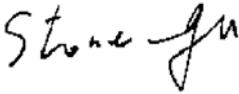
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/12/15		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	ANSI C63.10-2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2013 Section 11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

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

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

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

- A2LA (Certificate No. 6336.01)**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
- Innovation, Science and Economic Development Canada**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.
 CAB identifier: CN0120.
 IC#: 27594.
- FCC –Designation Number: CN1312**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.
 Designation Number: CN1312.
 Test Firm Registration Number: 717327



3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	23124RN87G	
Trade Mark:	Redmi	
Hardware Version:	13510C3V	
Software Version:	MIUI 14	
Power Supply:	DC 3.84V from internal rechargeable battery which can be charged by AC/DC adapter.	
IMEI:	RF Conducted	IMEI1:865408060039848 IMEI2:865408060039855
	RSE & AC power line	IMEI1:865408060041505 IMEI2:865408060041513
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
	<input type="checkbox"/> Diversity	TXBF: 802.11n: Tx & Rx
	<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx
Antenna Type:	PIFA Antenna	
Antenna Gain:	-1.25dBi (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	3.84
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 -1.25dBi (Ant6). *</p>	
<p><i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</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.</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>



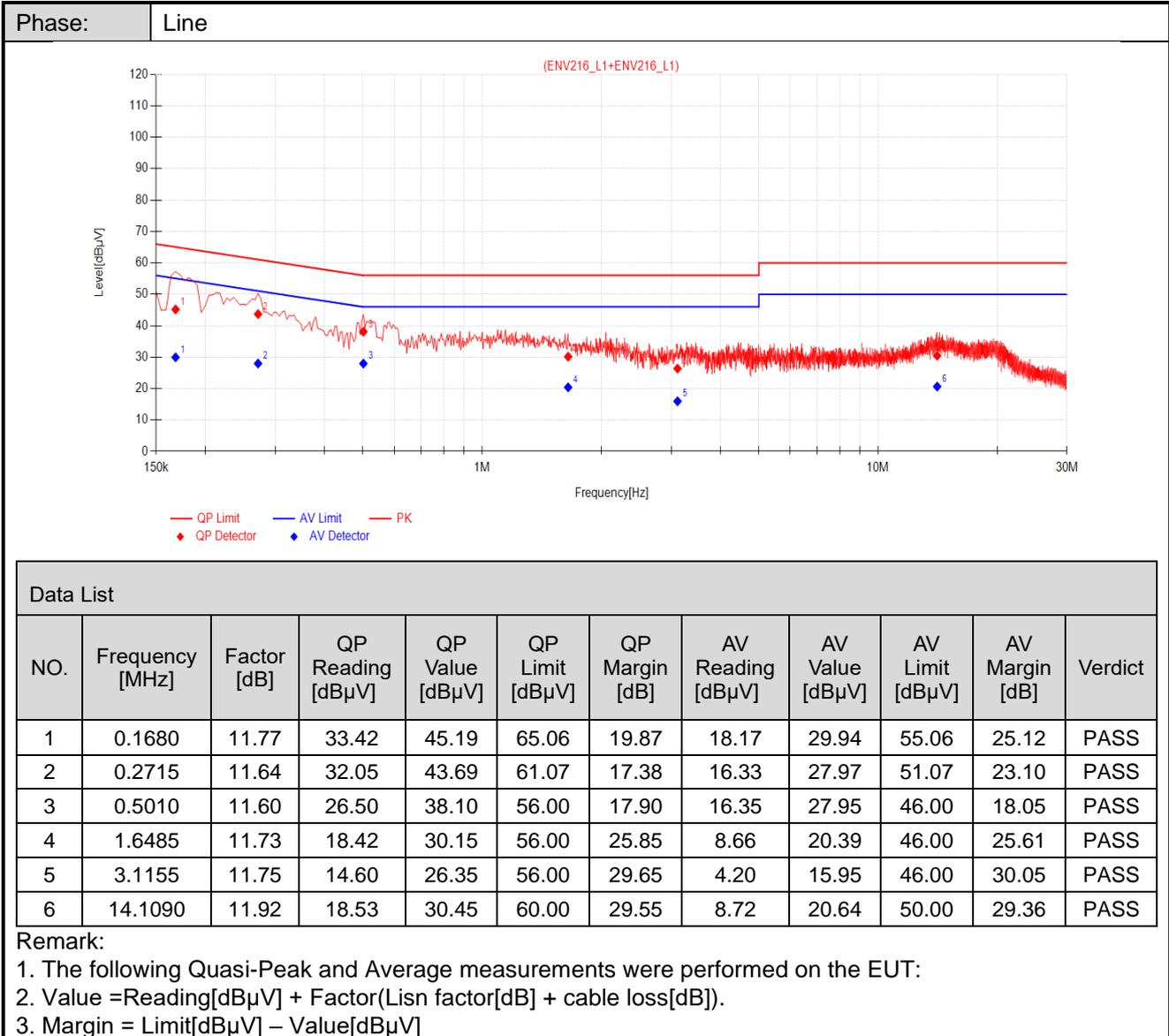
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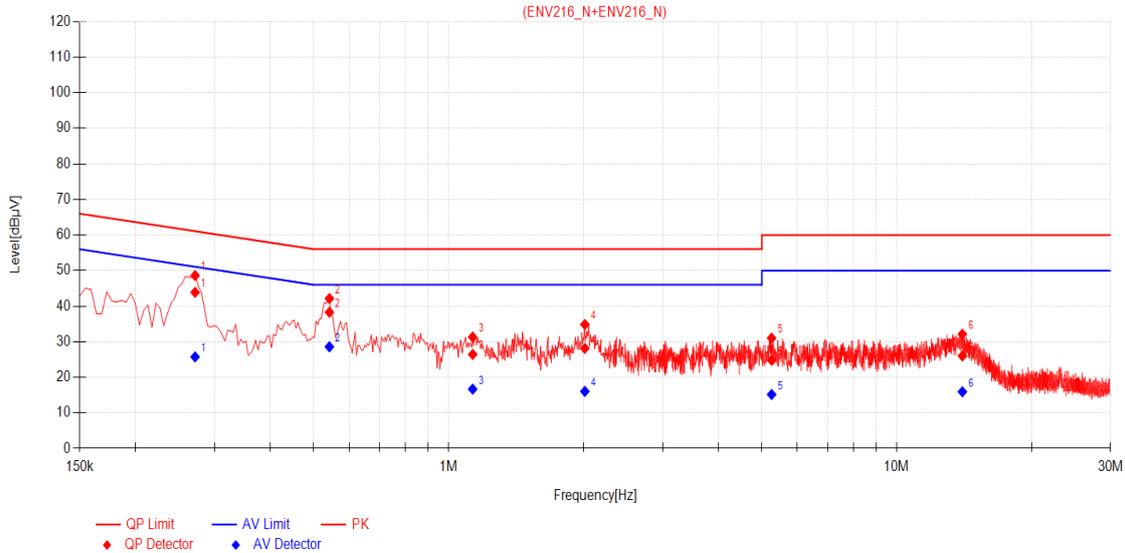
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Measurement Data

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	0.2715	11.64	32.23	43.87	61.07	17.20	14.09	25.73	51.07	25.34	PASS
2	0.5415	11.62	26.65	38.27	56.00	17.73	16.96	28.58	46.00	17.42	PASS
3	1.1310	11.72	14.71	26.43	56.00	29.57	4.95	16.67	46.00	29.33	PASS
4	2.0130	11.73	16.39	28.12	56.00	27.88	4.30	16.03	46.00	29.97	PASS
5	5.2575	11.81	12.97	24.78	60.00	35.22	3.35	15.16	50.00	34.84	PASS
6	14.0190	11.92	14.08	26.00	60.00	34.00	4.01	15.93	50.00	34.07	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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4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2013 Section 11.6
Test Method:	ANSI C63.10-2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



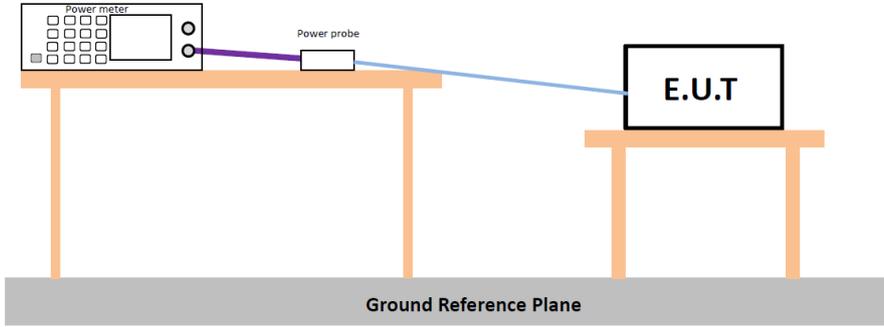
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2013 Section 11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

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



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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	



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

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



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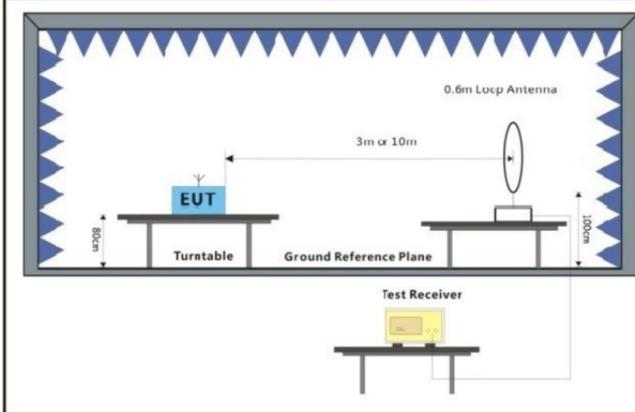


Figure 1. Below 30MHz

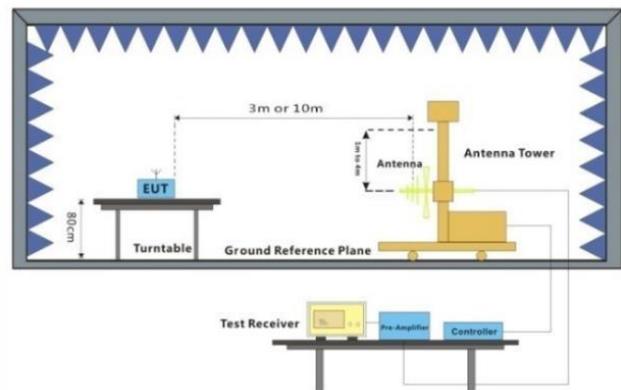


Figure 2. 30MHz to 1GHz

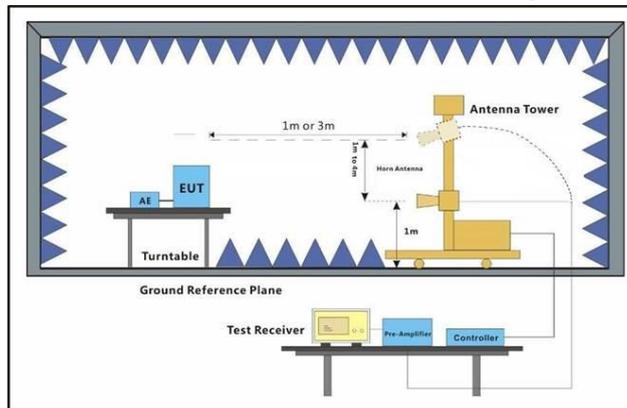


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



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	<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>
<p>Test Configuration:</p>	<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.
<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. For below 1GHz part, through pre-scan all channels, but 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>
<p>The detailed test data see: Appendix</p>	



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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:

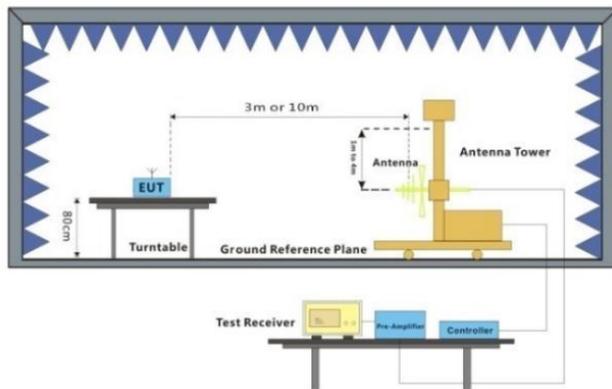


Figure 1. 30MHz to 1GHz

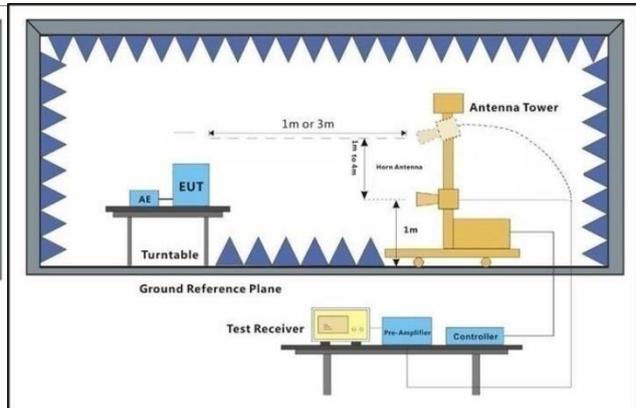


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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



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6 Equipment List

RF Test Equipment					
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	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
				2023/11/21	2024/11/20
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2022/11/23	2023/11/22
				2023/11/21	2024/11/20
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
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					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant6	2412	8.12	2407.96	2416.08	≥0.5	PASS
11b	Ant6	2437	8.12	2432.92	2441.04	≥0.5	PASS
11b	Ant6	2462	8.60	2457.44	2466.04	≥0.5	PASS
11g	Ant6	2412	15.20	2404.40	2419.60	≥0.5	PASS
11g	Ant6	2437	15.20	2429.40	2444.60	≥0.5	PASS
11g	Ant6	2462	15.20	2454.36	2469.56	≥0.5	PASS
11n20SISO	Ant6	2412	15.40	2404.40	2419.80	≥0.5	PASS
11n20SISO	Ant6	2437	14.32	2430.28	2444.60	≥0.5	PASS
11n20SISO	Ant6	2462	15.24	2454.36	2469.60	≥0.5	PASS

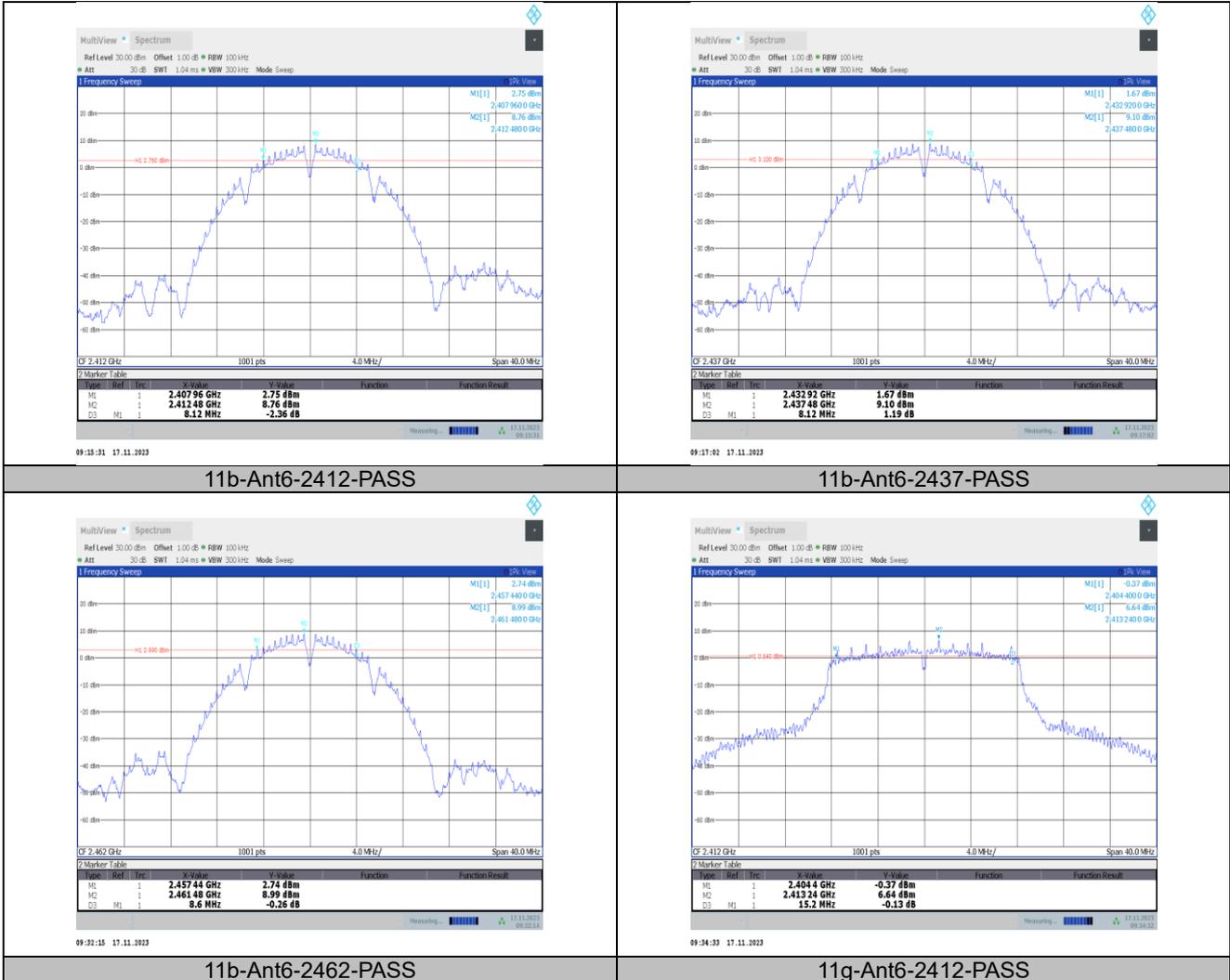


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Test Graphs



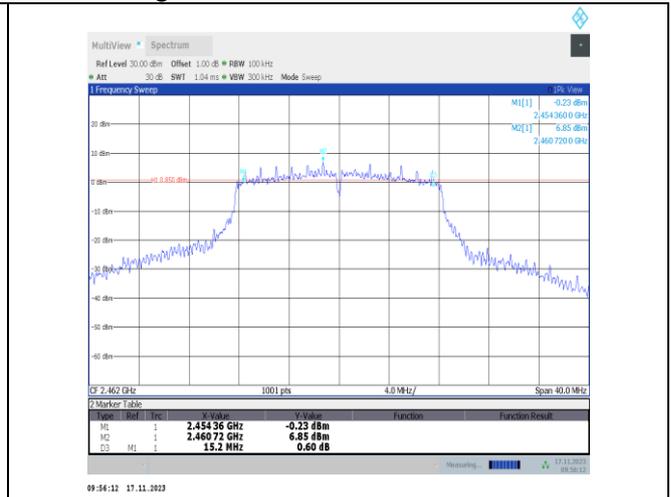
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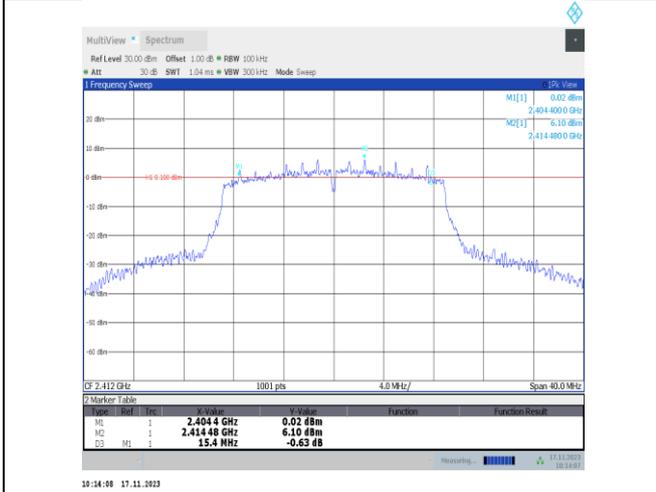
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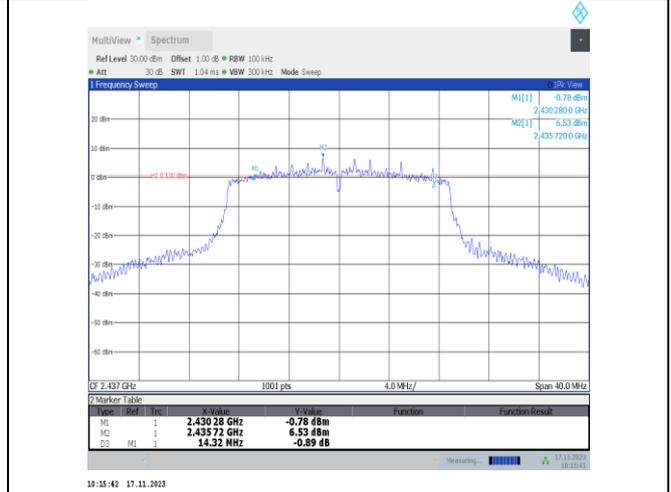
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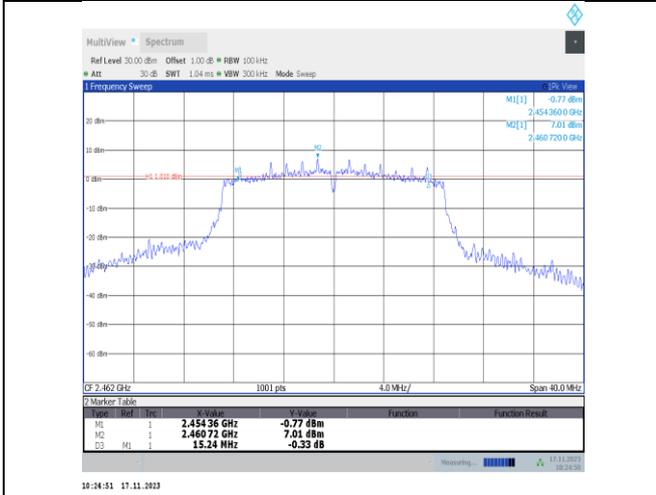
11g-Ant6-2462-PASS



11n20SISO-Ant6-2412-PASS



11n20SISO-Ant6-2437-PASS



11n20SISO-Ant6-2462-PASS



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant6	2412	12.973	2405.5812	2418.5540	For Report Purpose
11b	Ant6	2437	12.908	2430.5261	2443.4345	
11b	Ant6	2462	13.088	2455.3033	2468.3914	
11g	Ant6	2412	17.011	2403.5445	2420.5550	
11g	Ant6	2437	17.012	2428.4379	2445.4496	
11g	Ant6	2462	17.105	2453.3433	2470.4486	
11n20SISO	Ant6	2412	18.035	2403.0407	2421.0760	
11n20SISO	Ant6	2437	18.025	2427.9418	2445.9670	
11n20SISO	Ant6	2462	18.072	2452.8610	2470.9326	

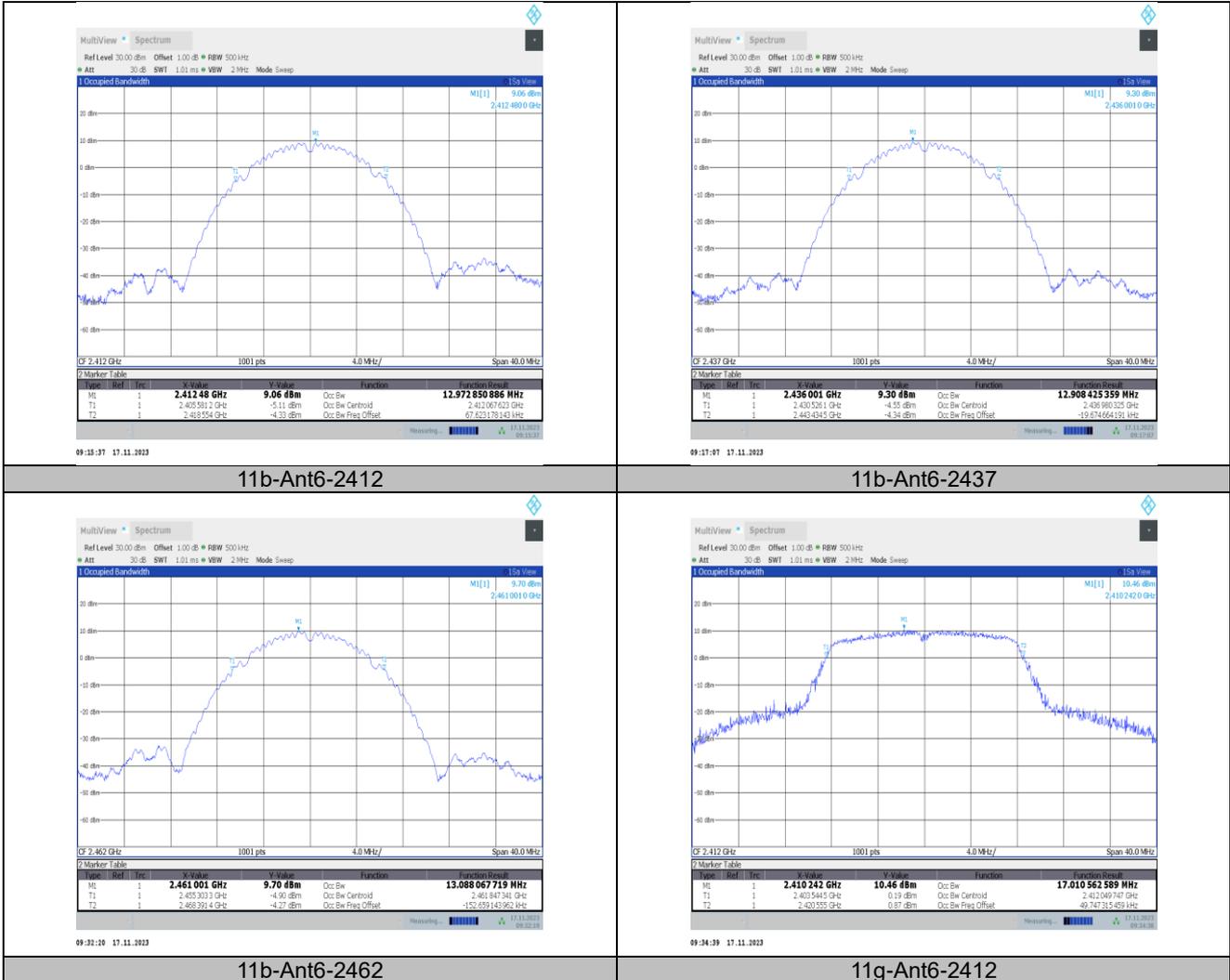


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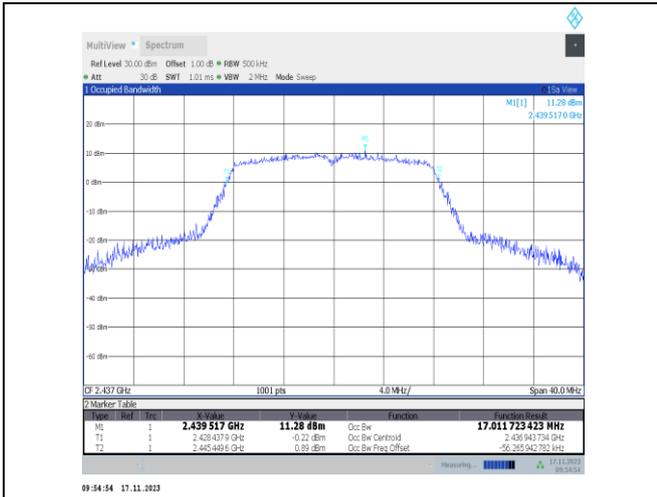
Test Graphs



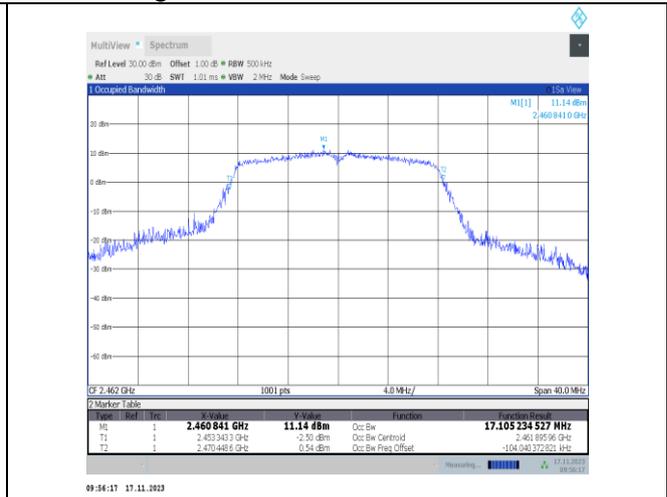
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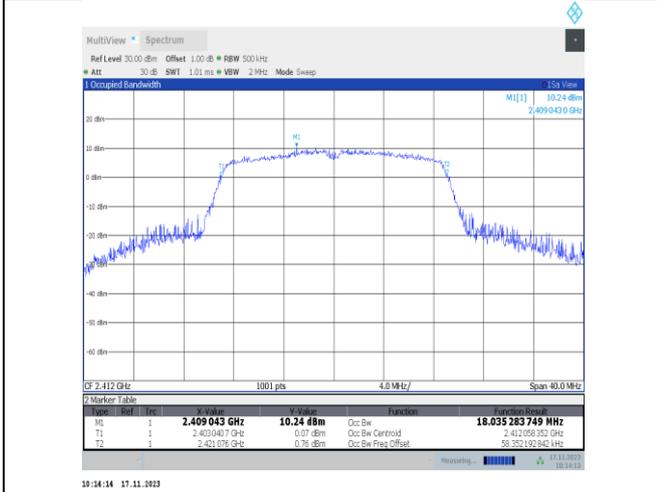
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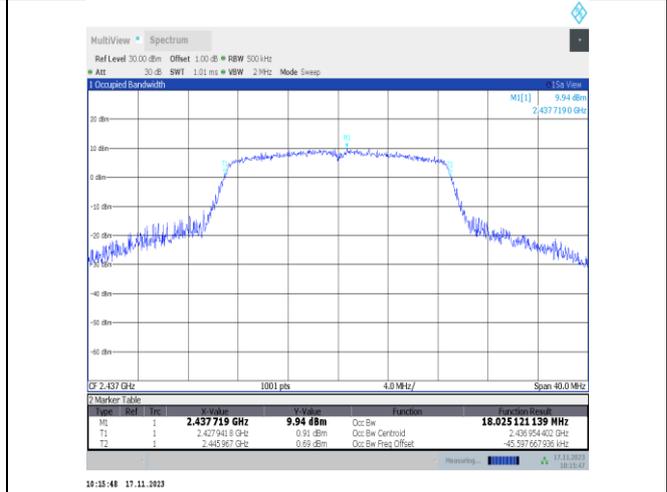
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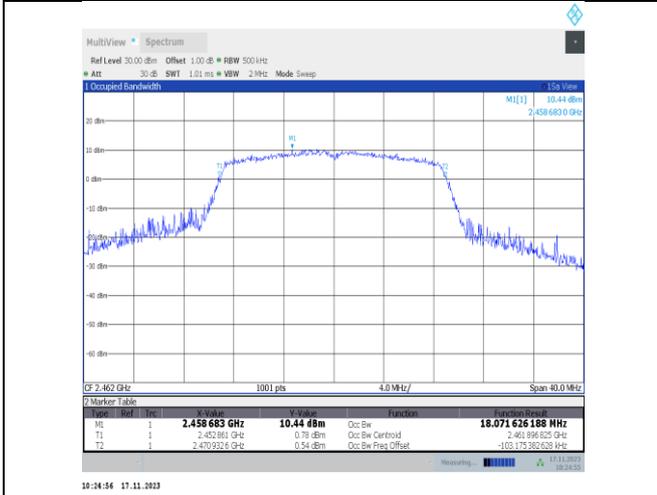
11g-Ant6-2462



11n20SISO-Ant6-2412



11n20SISO-Ant6-2437



11n20SISO-Ant6-2462



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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant6	2412	19.27	≤30.00	PASS
11b	Ant6	2437	19.25	≤30.00	PASS
11b	Ant6	2462	19.52	≤30.00	PASS
11g	Ant6	2412	22.76	≤30.00	PASS
11g	Ant6	2437	22.63	≤30.00	PASS
11g	Ant6	2462	22.81	≤30.00	PASS
11n20SISO	Ant6	2412	23.22	≤30.00	PASS
11n20SISO	Ant6	2437	23.26	≤30.00	PASS
11n20SISO	Ant6	2462	23.32	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant6	2412	-3.76	≤8.00	PASS
11b	Ant6	2437	-4.83	≤8.00	PASS
11b	Ant6	2462	-4.42	≤8.00	PASS
11g	Ant6	2412	-4.81	≤8.00	PASS
11g	Ant6	2437	-8.23	≤8.00	PASS
11g	Ant6	2462	-6.91	≤8.00	PASS
11n20SISO	Ant6	2412	-7.85	≤8.00	PASS
11n20SISO	Ant6	2437	-8.38	≤8.00	PASS
11n20SISO	Ant6	2462	-7.91	≤8.00	PASS

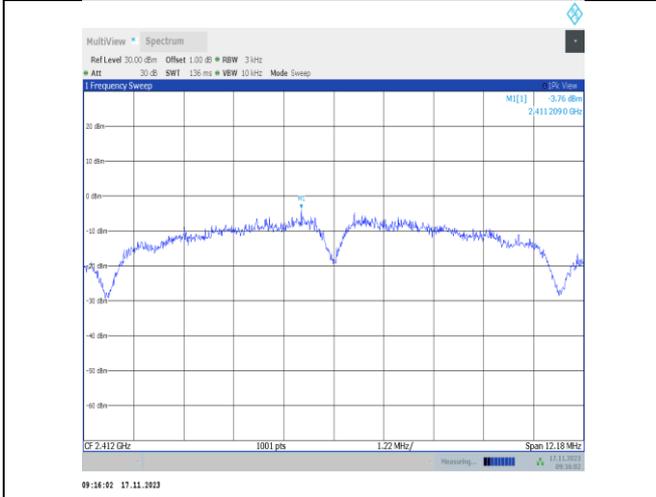


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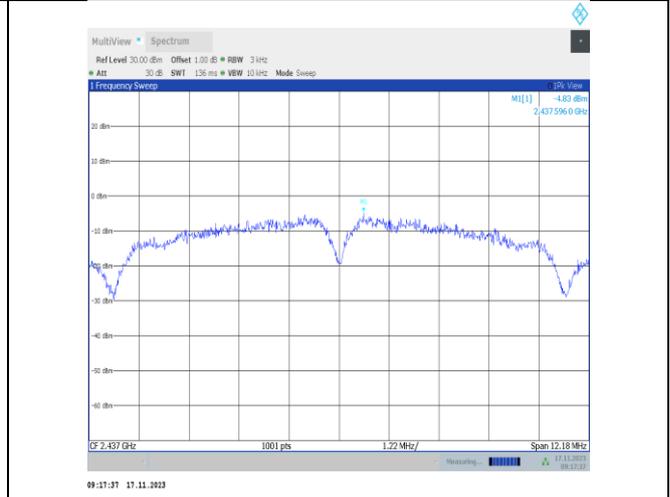
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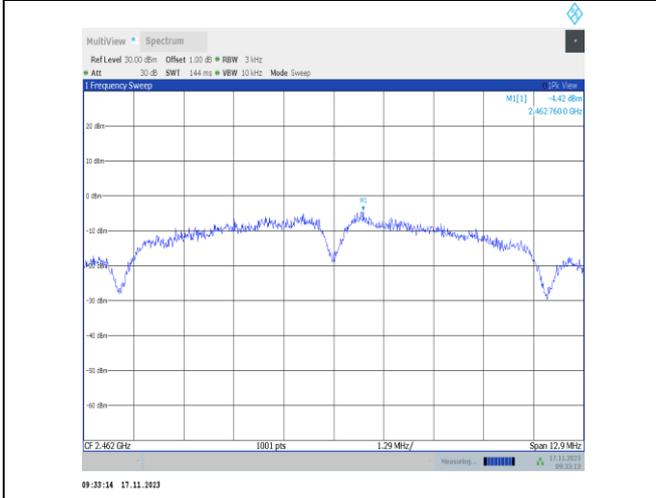
Test Graphs



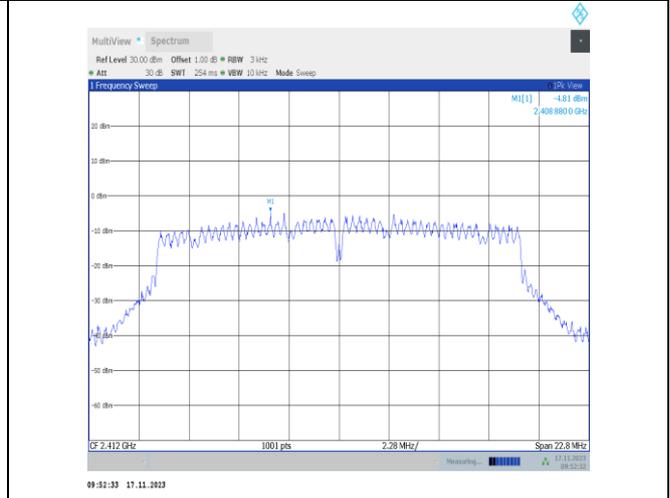
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11b-Ant6-2437-PASS



11b-Ant6-2462-PASS



11g-Ant6-2412-PASS

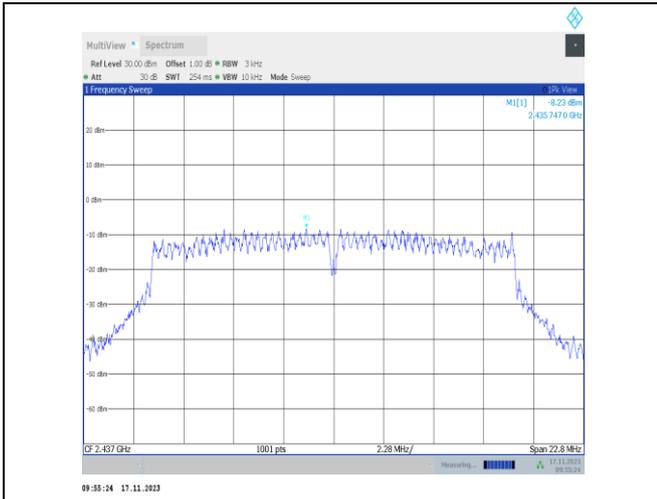


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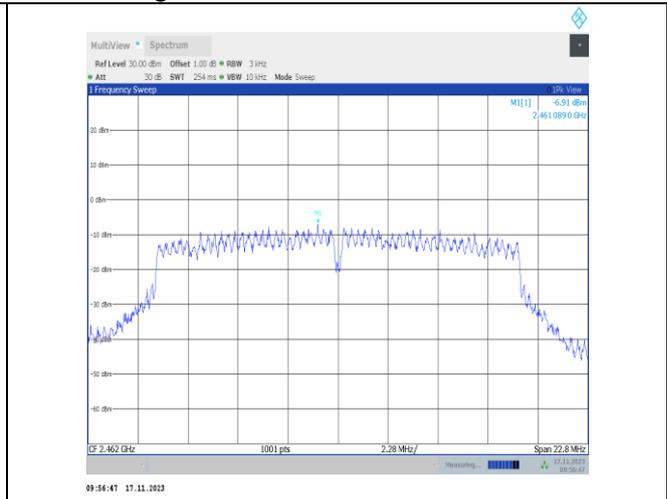
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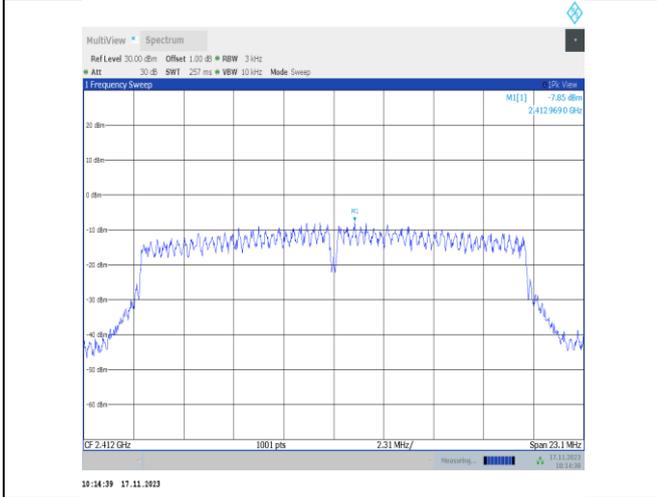
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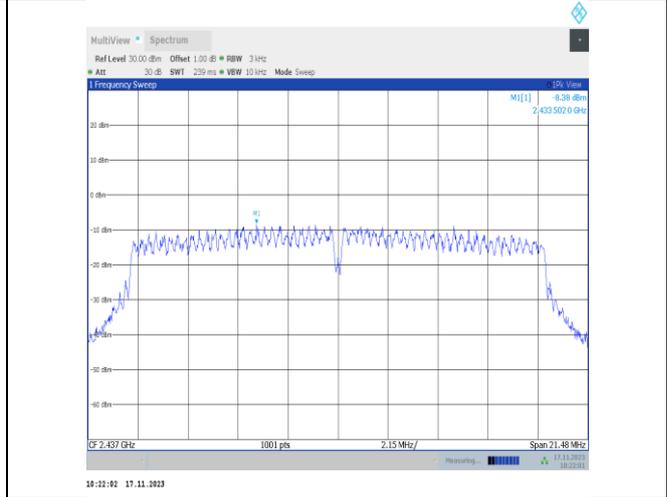
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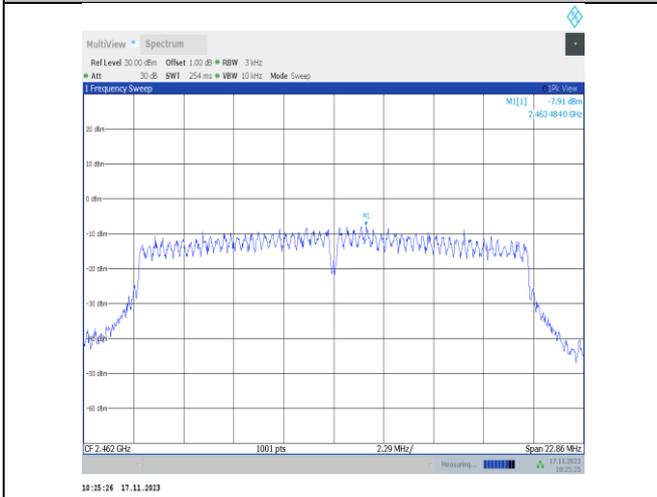
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11n20SISO-Ant6-2412-PASS



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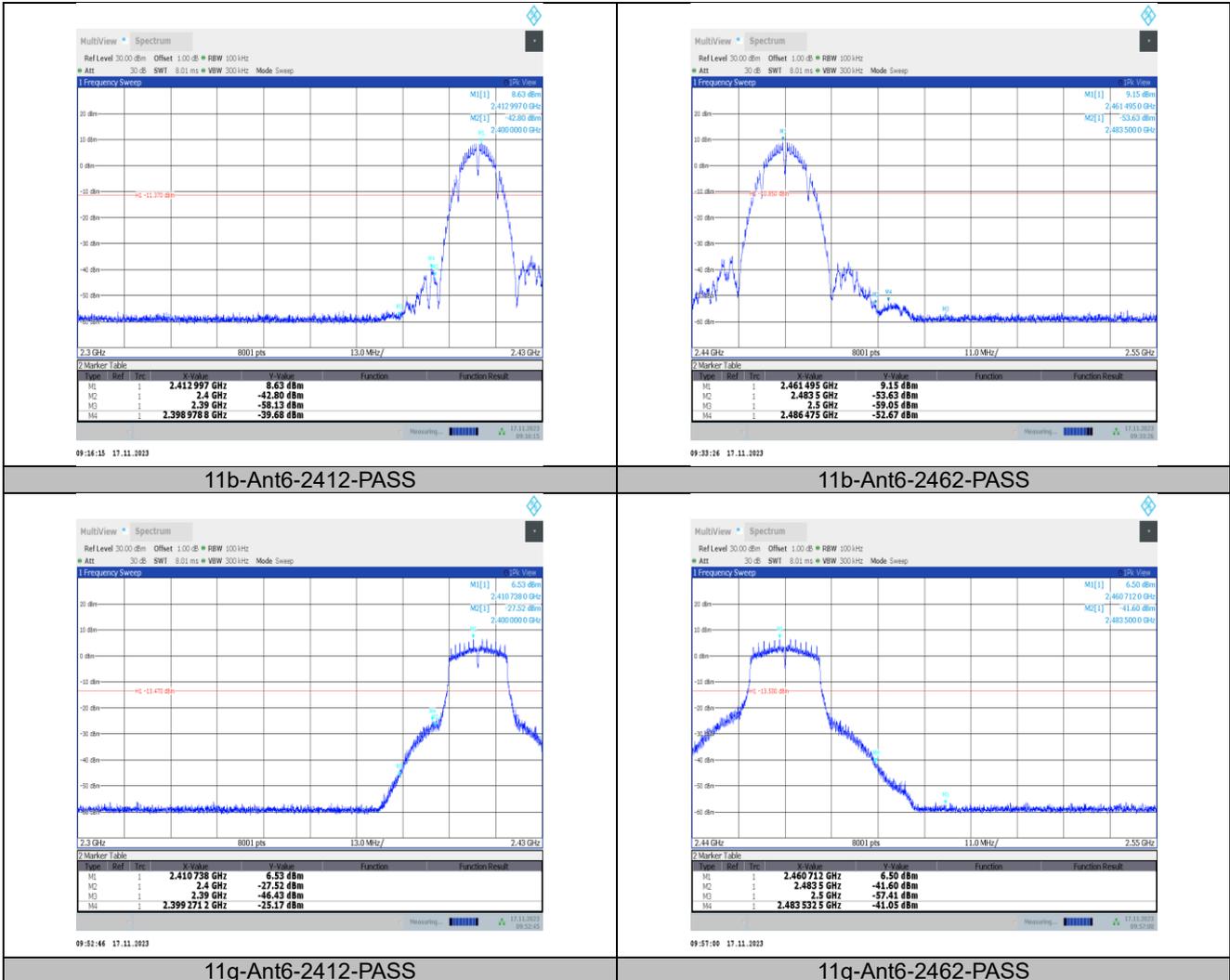
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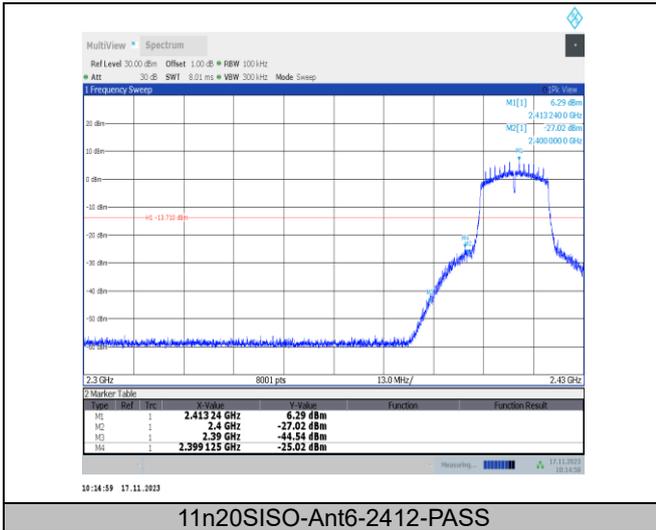
Band edge measurements Test Graphs



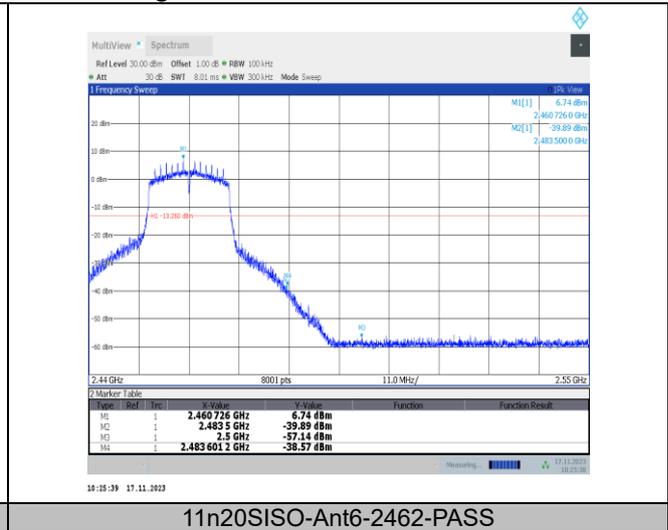
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11n20SISO-Ant6-2462-PASS

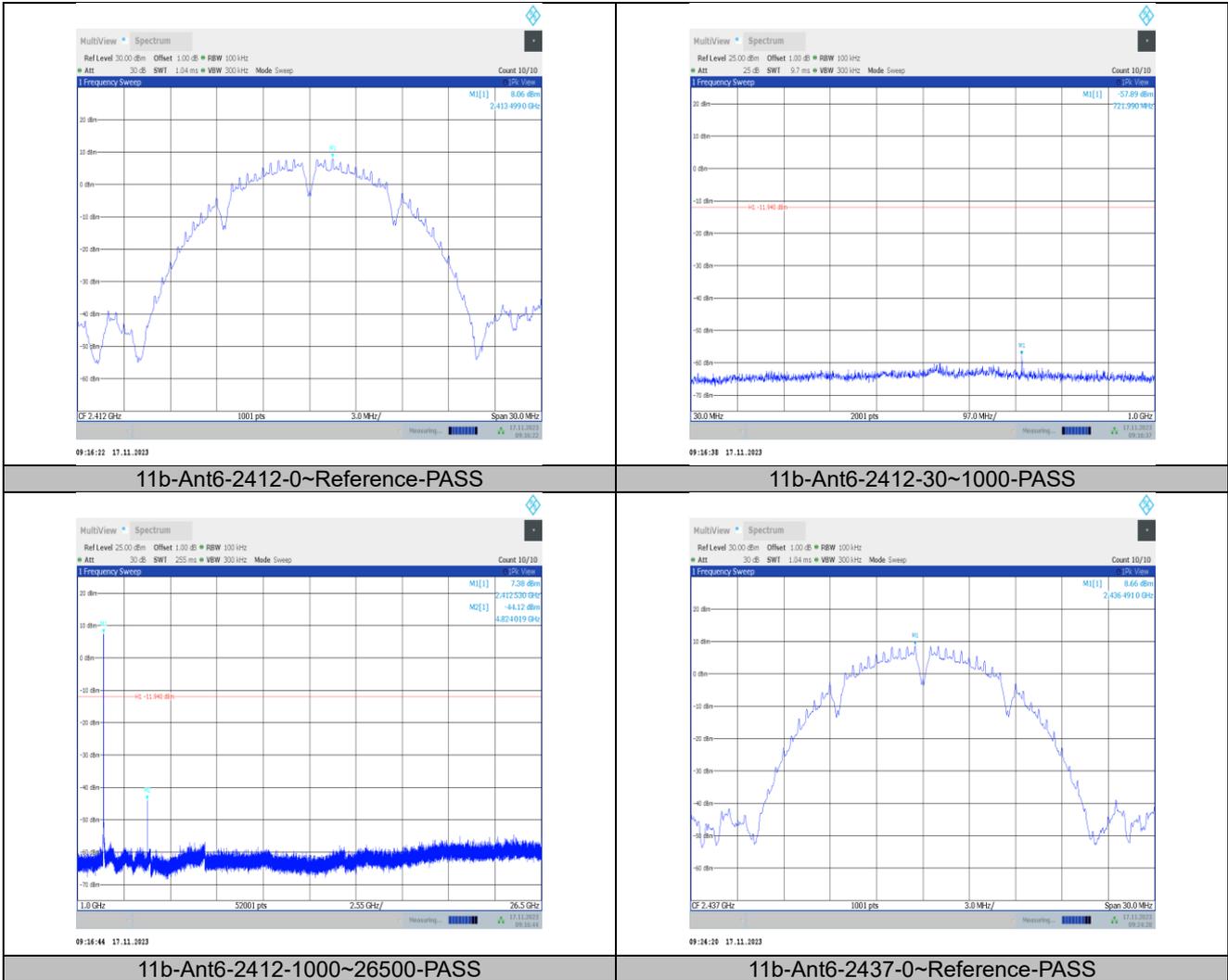


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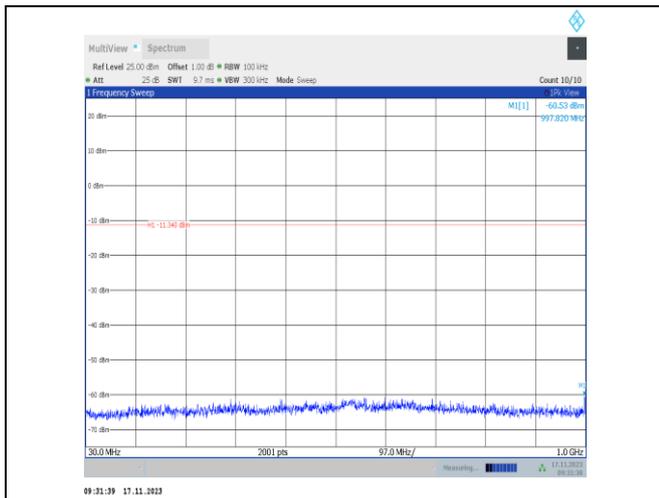
Conducted Spurious Emission Test Graphs



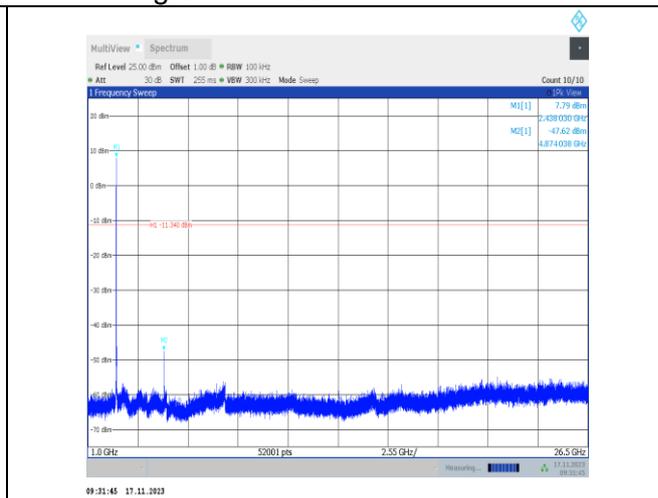
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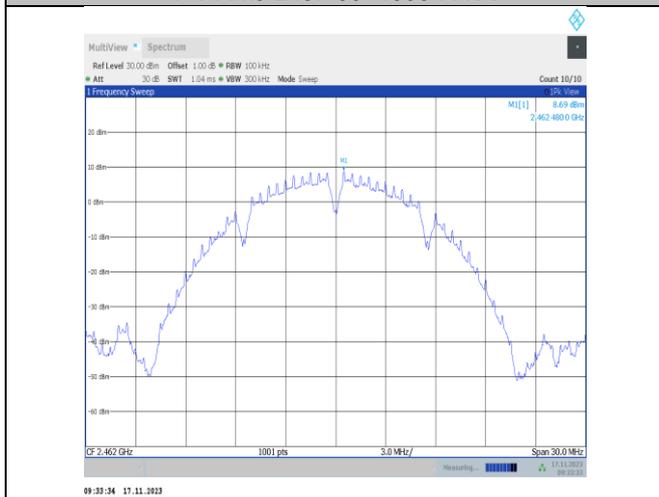
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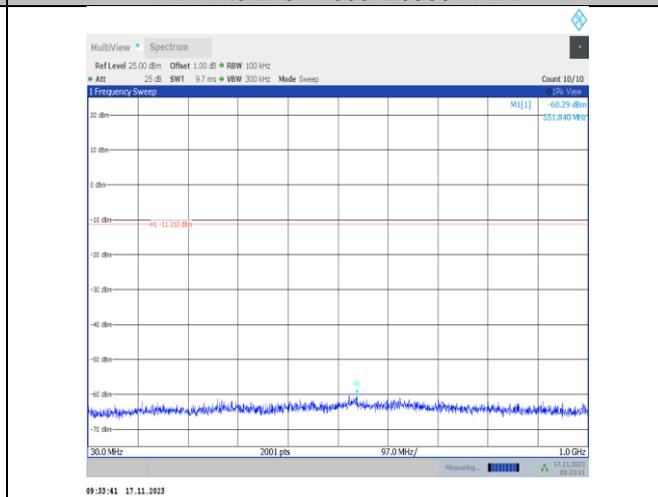
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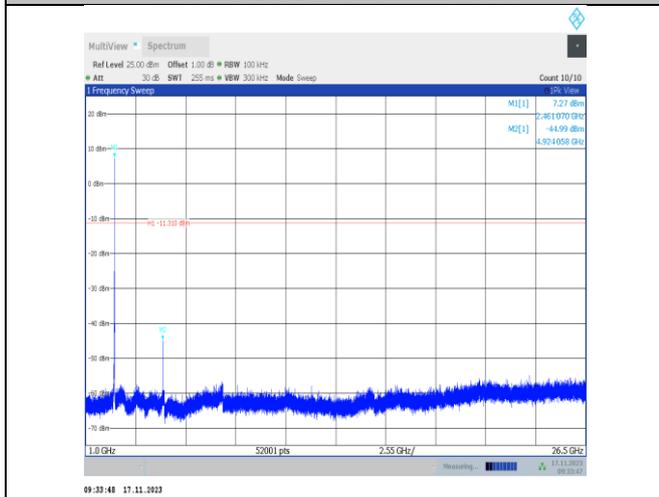
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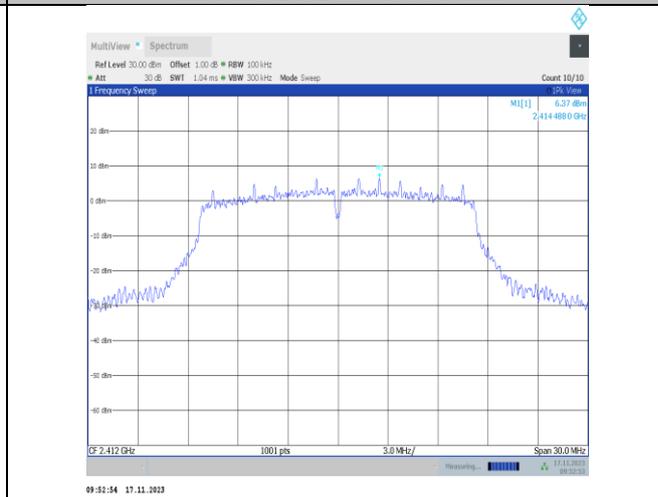
11b-Ant6-2462-0~Reference-PASS



11b-Ant6-2462-30~1000-PASS



11b-Ant6-2462-1000~26500-PASS



11g-Ant6-2412-0~Reference-PASS

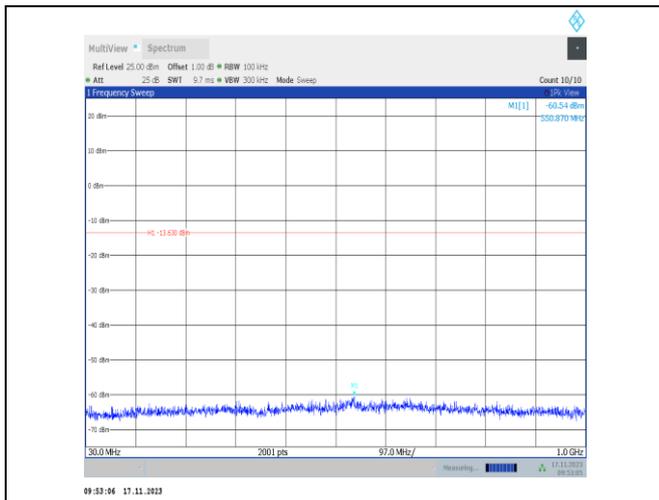


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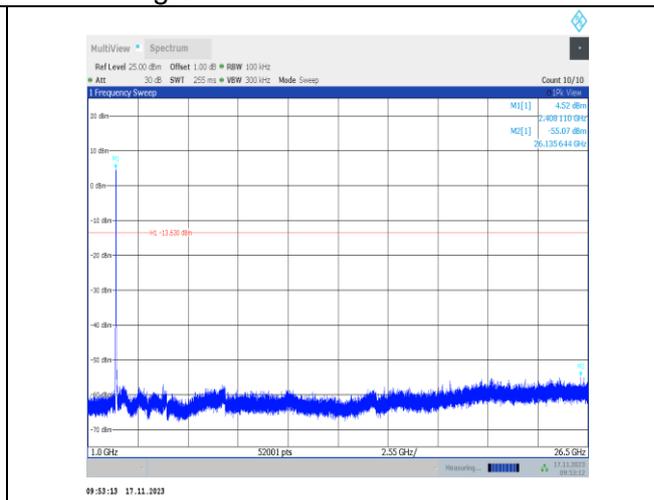
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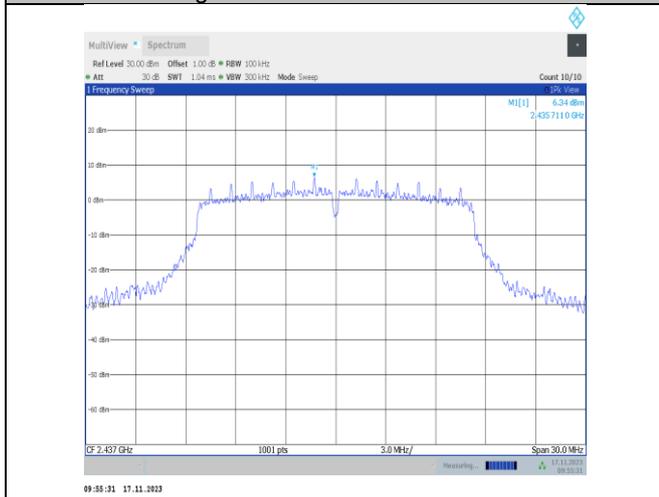
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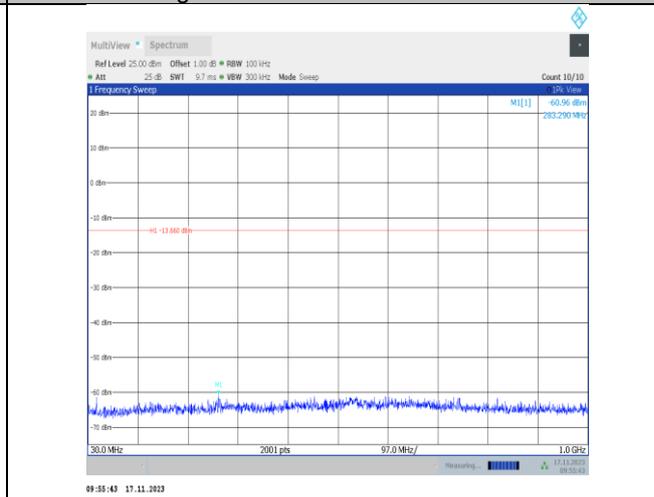
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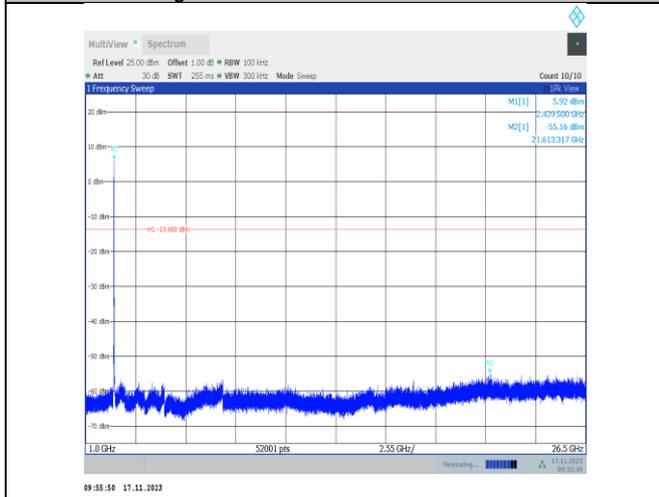
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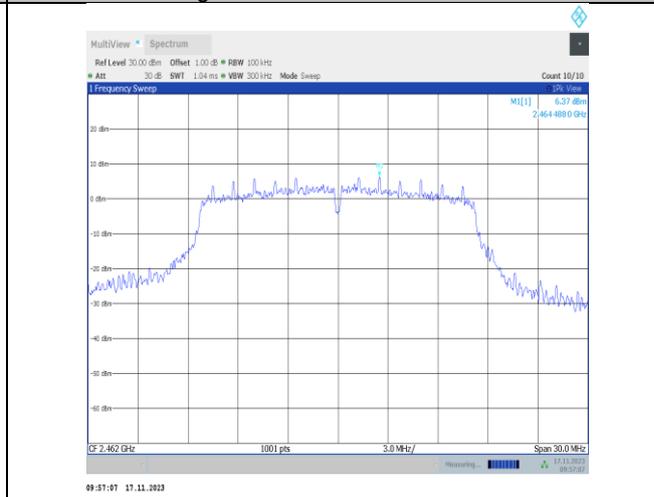
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11g-Ant6-2437-30~1000-PASS



11g-Ant6-2437-1000~26500-PASS

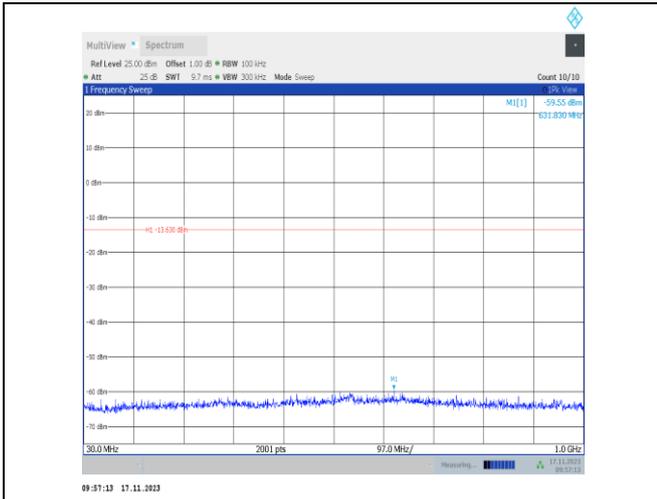


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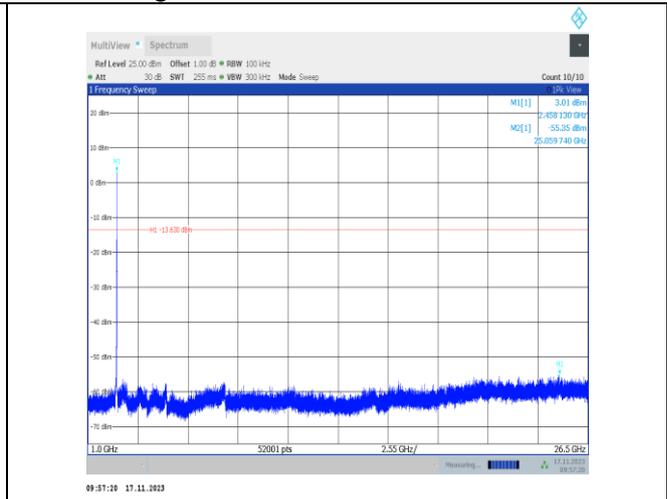


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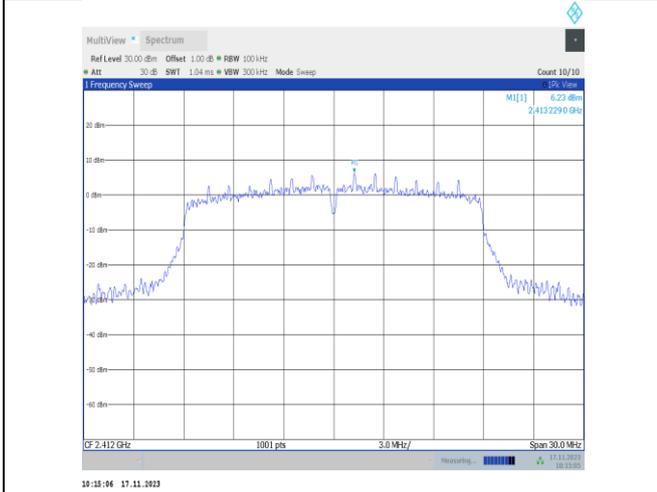
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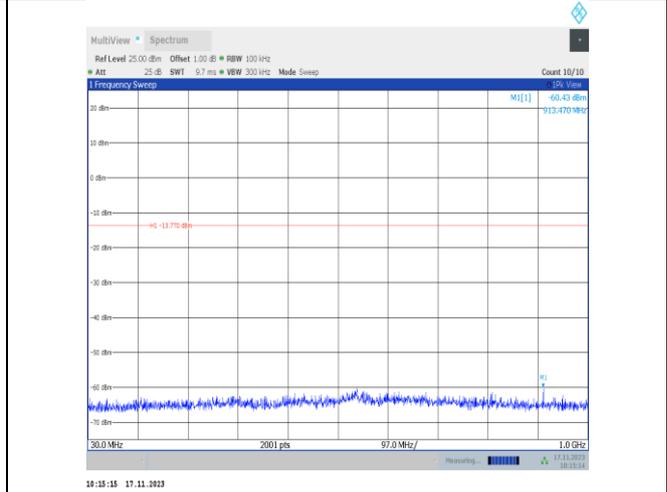
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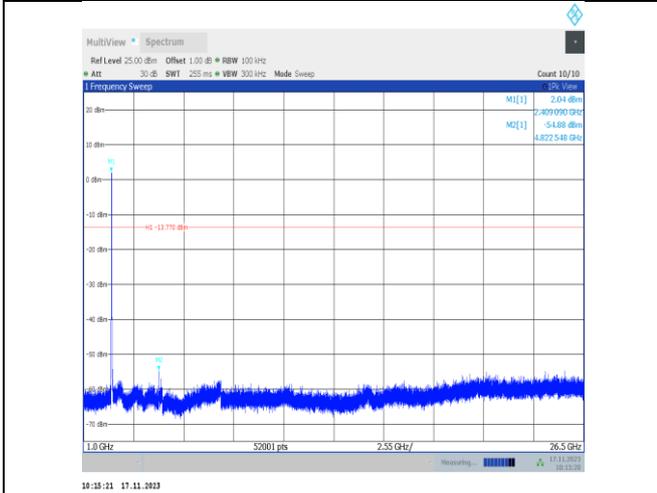
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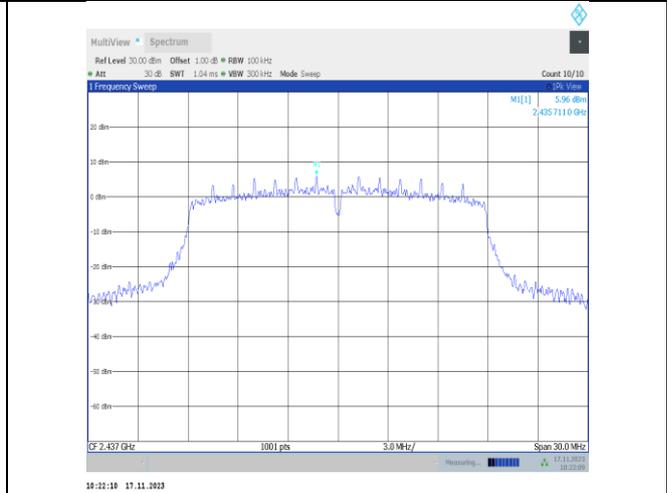
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11n20SISO-Ant6-2412-30~1000-PASS



11n20SISO-Ant6-2412-1000~26500-PASS



11n20SISO-Ant6-2437-0~Reference-PASS

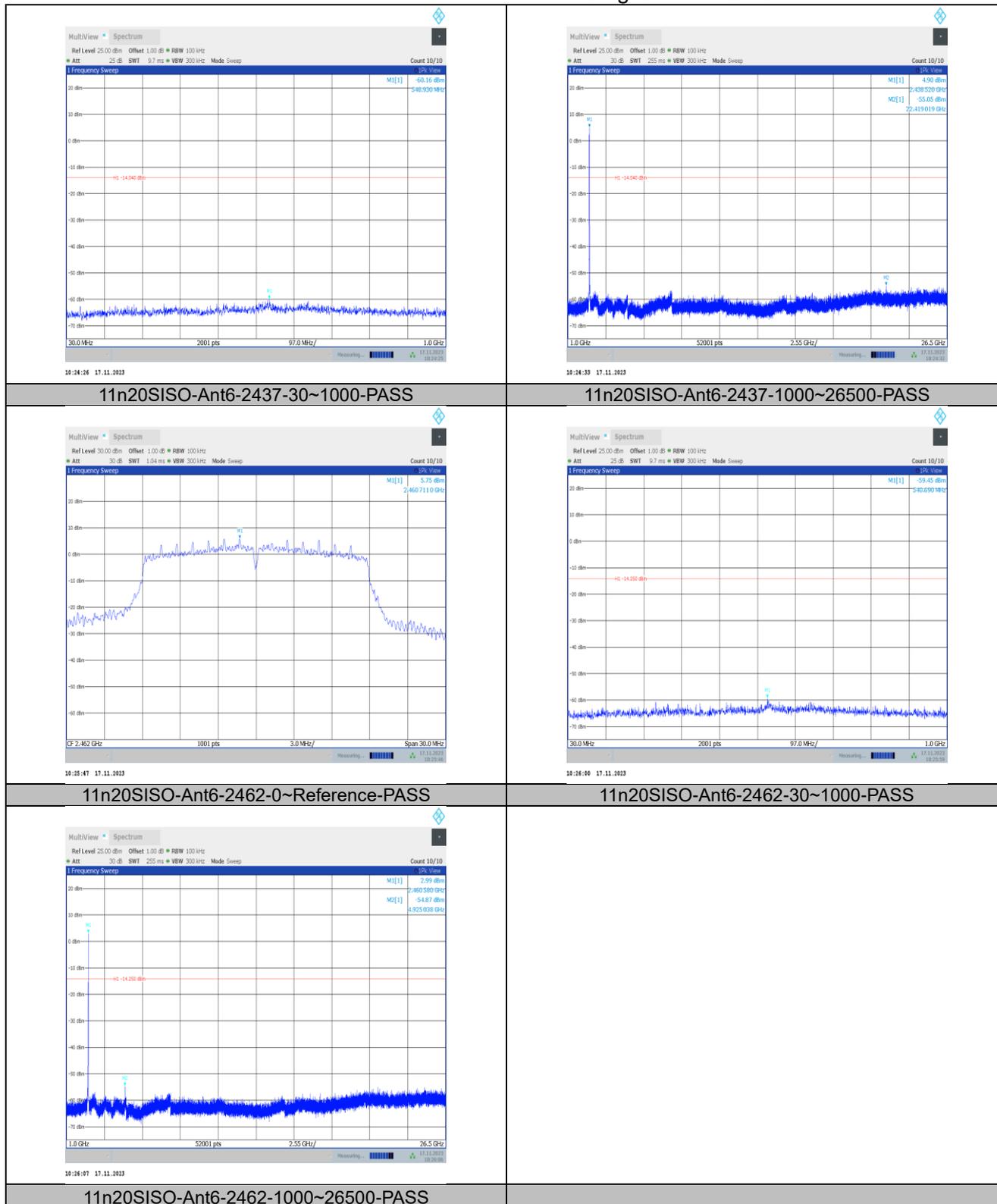


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Report No.: SEWM2311000456RG05

Rev.: 01

Page: 48 of 93

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant6	2412	8.39	8.42	99.64	0.02
11g	Ant6	2412	1.39	1.43	97.20	0.12
11n20SISO	Ant6	2412	1.30	1.34	97.01	0.13

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.39	8.42	99.64	0.11919	10Hz*
11g	1.39	1.43	97.20	0.71942	0.75KHz
11n20SISO	1.30	1.34	97.01	0.76923	0.82KHz

*Duty cycle > 98% VBW setting=10Hz

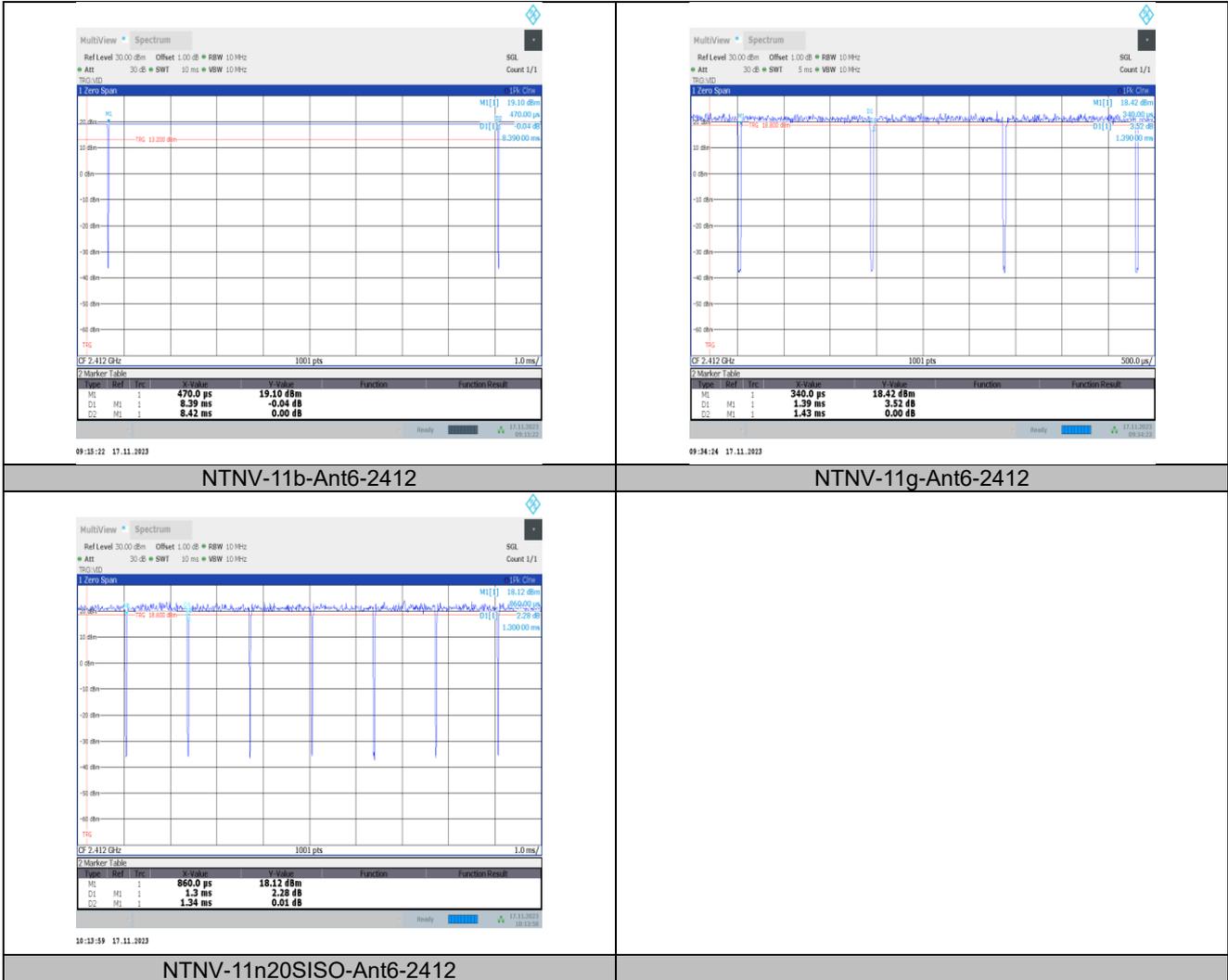


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Test Graphs



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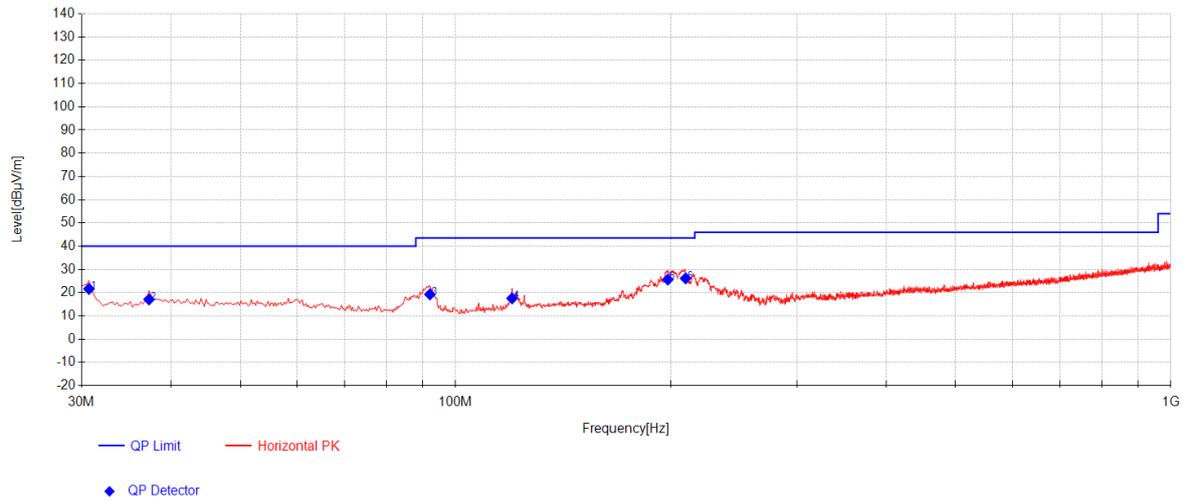
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.7275	37.65	-34.01	17.99	21.63	40.00	18.37	Horizontal
2	37.275	32.05	-34.00	19.05	17.10	40.00	22.90	Horizontal
3	92.08	37.96	-33.55	14.87	19.28	43.50	24.22	Horizontal
4	119.9675	33.62	-33.34	17.30	17.58	43.50	25.92	Horizontal
5	198.0525	43.06	-32.74	15.33	25.65	43.50	17.85	Horizontal
6	209.6925	43.05	-32.62	15.73	26.16	43.50	17.34	Horizontal

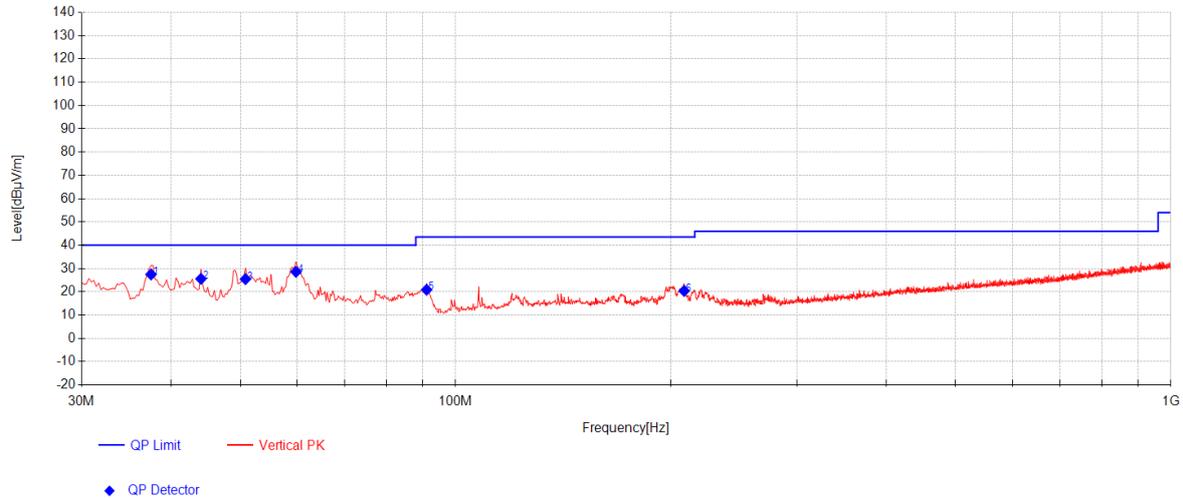


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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	37.5175	42.35	-34.00	19.10	27.46	40.00	12.54	Vertical
2	44.065	40.06	-33.99	19.50	25.57	40.00	14.43	Vertical
3	50.855	40.26	-33.97	19.17	25.46	40.00	14.54	Vertical
4	59.8275	43.63	-33.86	18.81	28.57	40.00	11.43	Vertical
5	91.11	39.65	-33.56	14.79	20.88	43.50	22.62	Vertical
6	208.7225	37.35	-32.63	15.68	20.40	43.50	23.10	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.



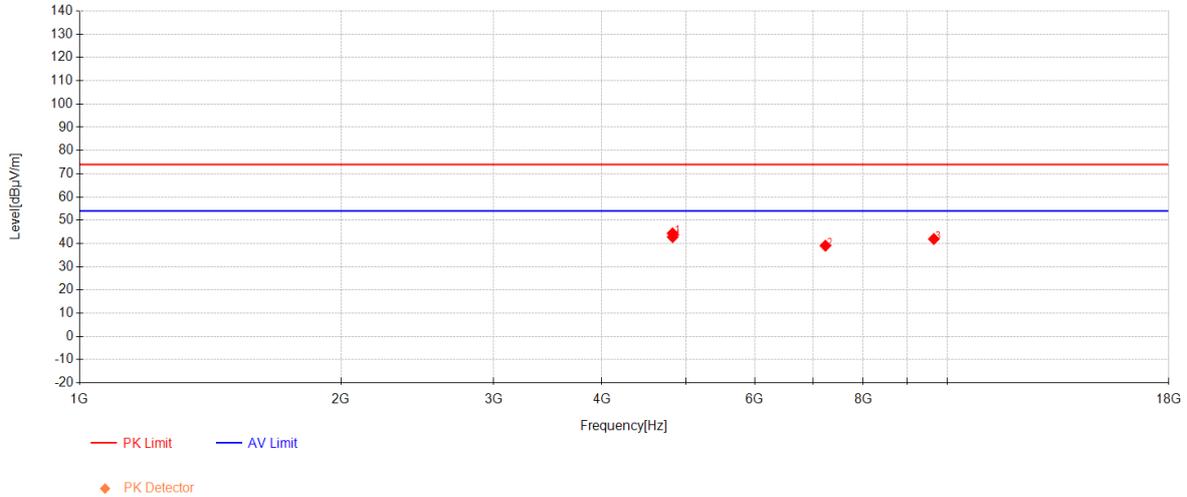
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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	52.96	32.81	-41.43	44.34	74.00	29.66	Horizontal
2	7236	40.55	36.28	-37.81	39.03	74.00	34.97	Horizontal
3	9648	37.39	37.79	-33.26	41.92	74.00	32.08	Horizontal
4	4824.5	51.37	32.81	-41.43	42.76	54.00	11.24	Horizontal

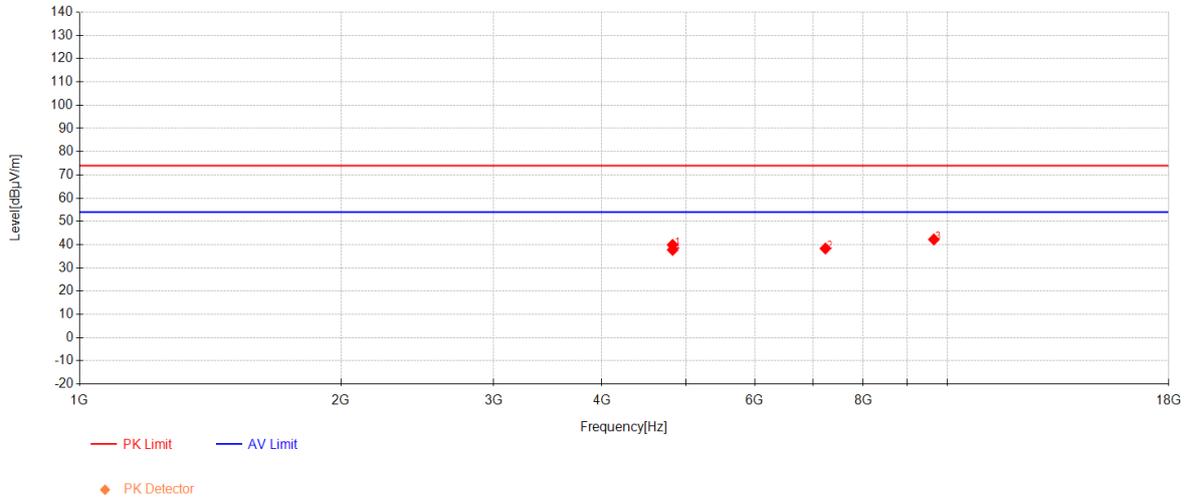


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802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	48.50	32.81	-41.43	39.88	74.00	34.12	Vertical
2	7236	39.84	36.28	-37.81	38.32	74.00	35.68	Vertical
3	9648	37.69	37.79	-33.26	42.22	74.00	31.78	Vertical
4	4824.5	46.35	32.81	-41.43	37.74	54.00	16.26	Vertical

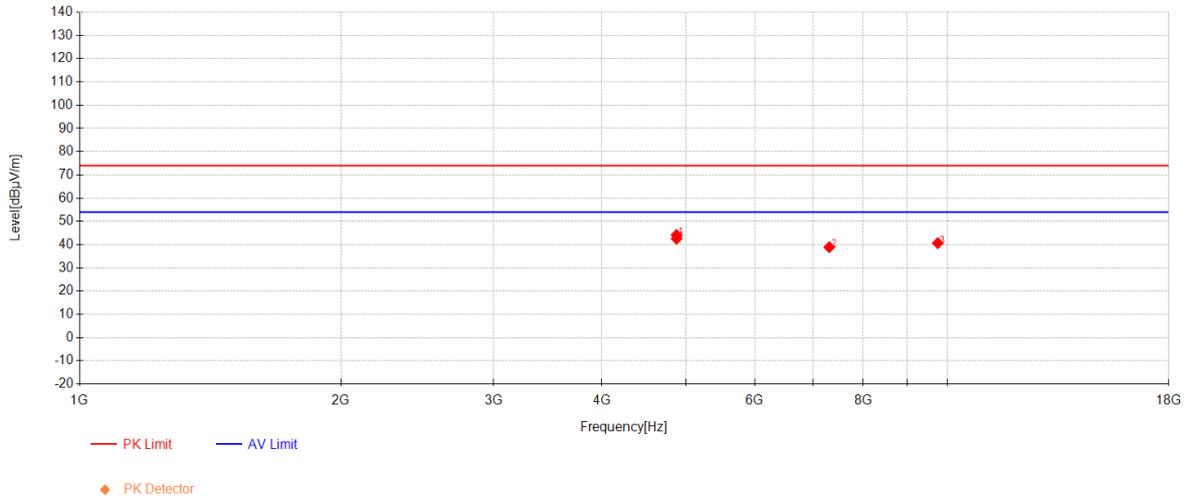


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802.11b_Channel 06



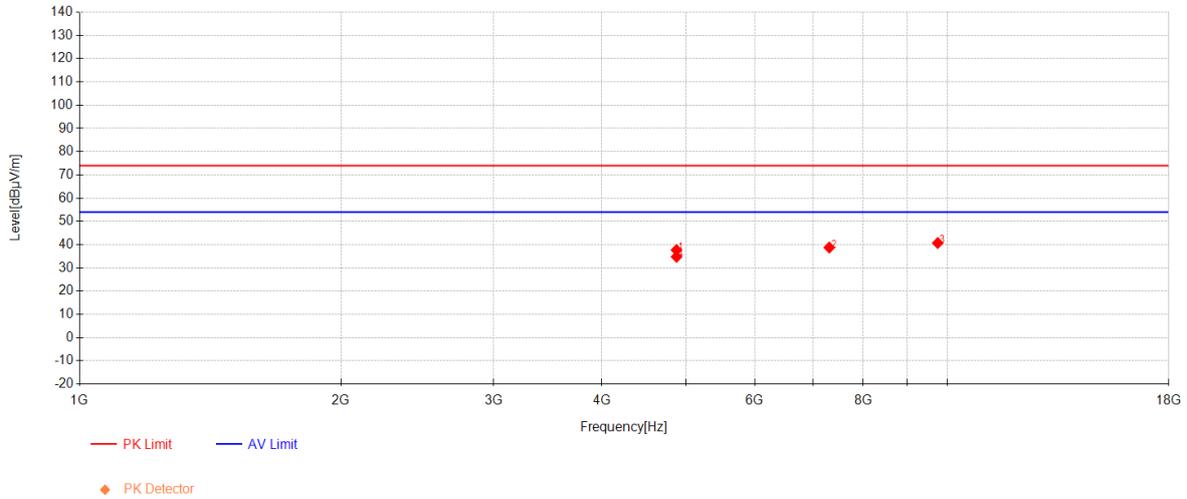
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	52.51	32.92	-41.28	44.15	74.00	29.85	Horizontal
2	7311	39.96	36.37	-37.42	38.91	74.00	35.09	Horizontal
3	9748	35.88	37.82	-33.06	40.65	74.00	33.35	Horizontal
4	4874.5	50.87	32.92	-41.28	42.52	54.00	11.48	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]	Polarity
1	4874	46.06	32.92	-41.28	37.70	74.00	36.30	Vertical
2	7311	39.80	36.37	-37.42	38.75	74.00	35.25	Vertical
3	9748	35.92	37.82	-33.06	40.69	74.00	33.31	Vertical
4	4874.5	43.12	32.92	-41.28	34.77	54.00	19.23	Vertical

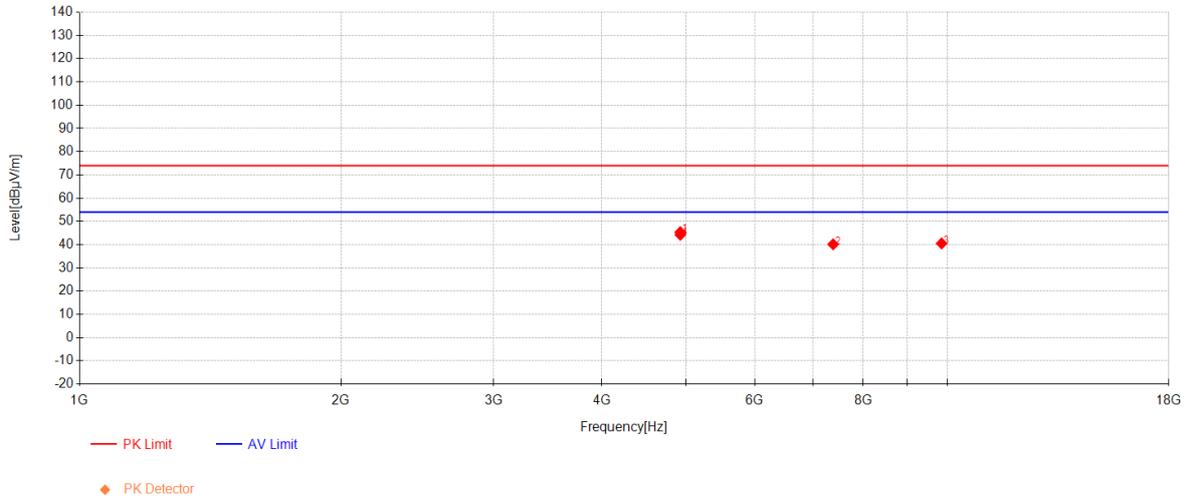


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802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	53.59	33.03	-41.26	45.36	74.00	28.64	Horizontal
2	7386	41.48	36.46	-37.82	40.13	74.00	33.87	Horizontal
3	9848	35.51	37.85	-32.85	40.51	74.00	33.49	Horizontal
4	4924.5	52.47	33.03	-41.27	44.24	54.00	9.76	Horizontal

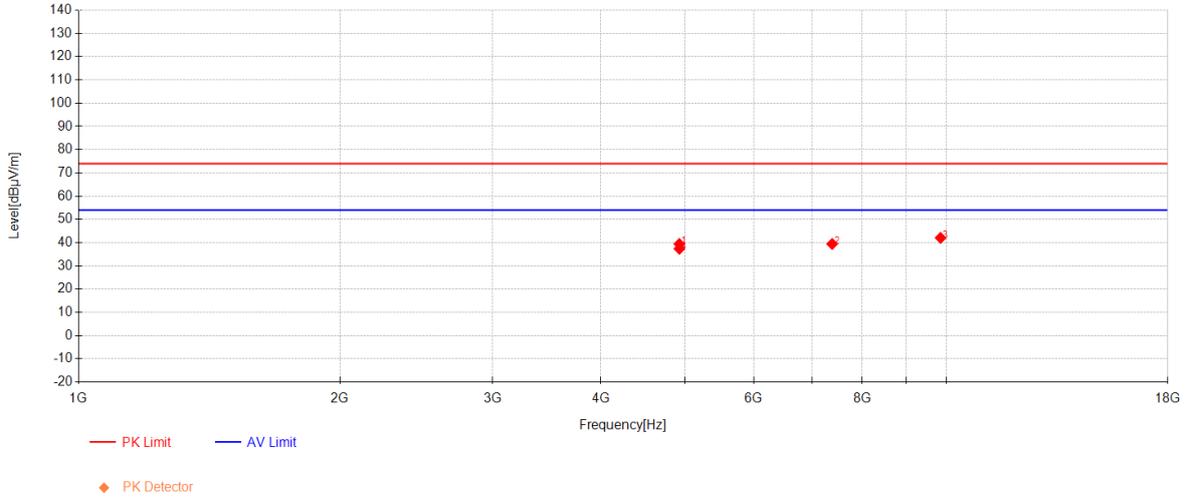


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802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	47.64	33.03	-41.26	39.41	74.00	34.59	Vertical
2	7386	40.78	36.46	-37.82	39.43	74.00	34.57	Vertical
3	9848	37.06	37.85	-32.85	42.06	74.00	31.94	Vertical
4	4924.5	45.58	33.03	-41.27	37.35	54.00	16.65	Vertical

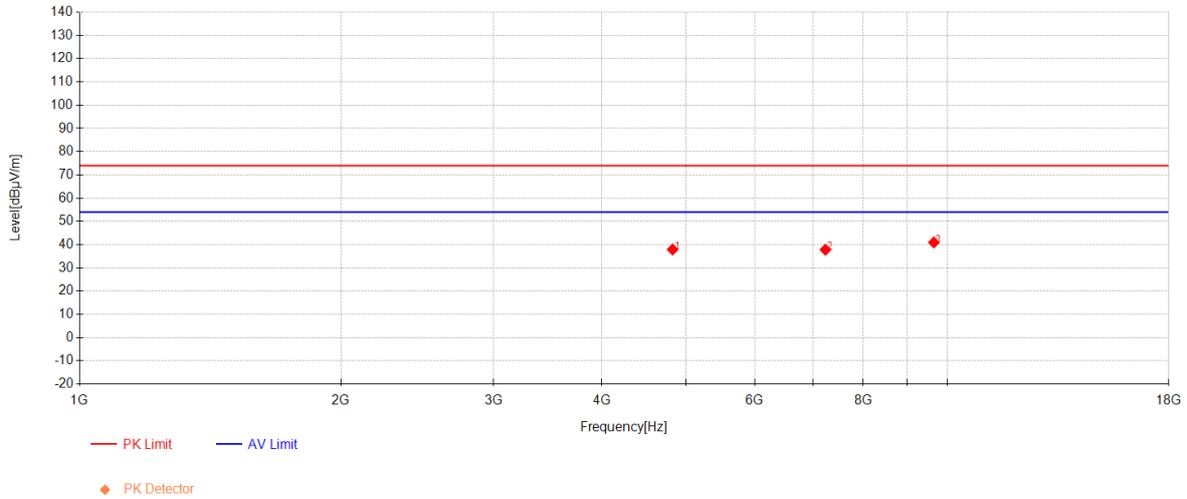


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802.11g_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	46.54	32.81	-41.43	37.92	74.00	36.08	Horizontal
2	7236	39.33	36.28	-37.81	37.81	74.00	36.19	Horizontal
3	9648	36.42	37.79	-33.26	40.95	74.00	33.05	Horizontal

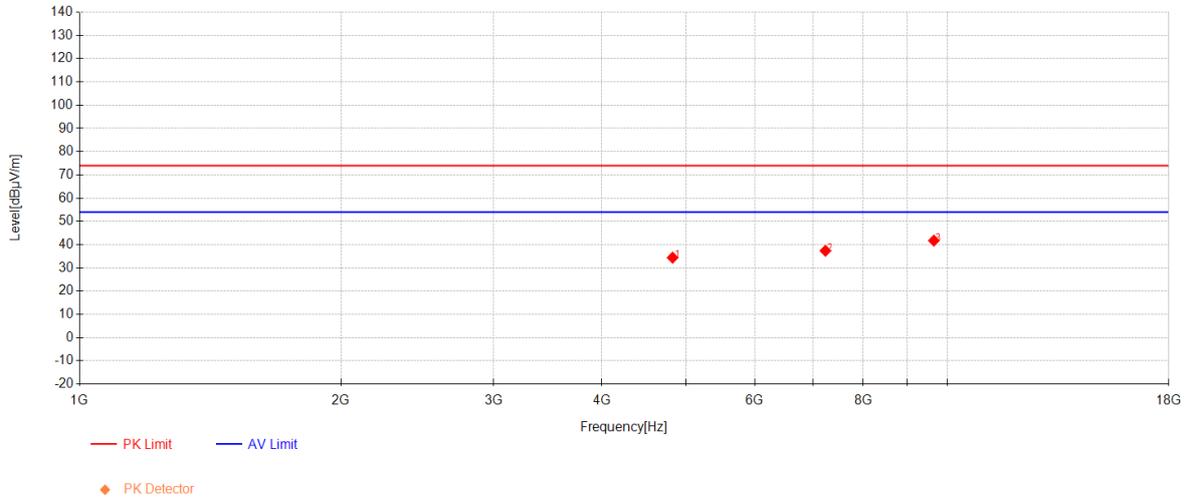


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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	43.02	32.81	-41.43	34.40	74.00	39.60	Vertical
2	7236	38.87	36.28	-37.81	37.35	74.00	36.65	Vertical
3	9648	37.21	37.79	-33.26	41.74	74.00	32.26	Vertical

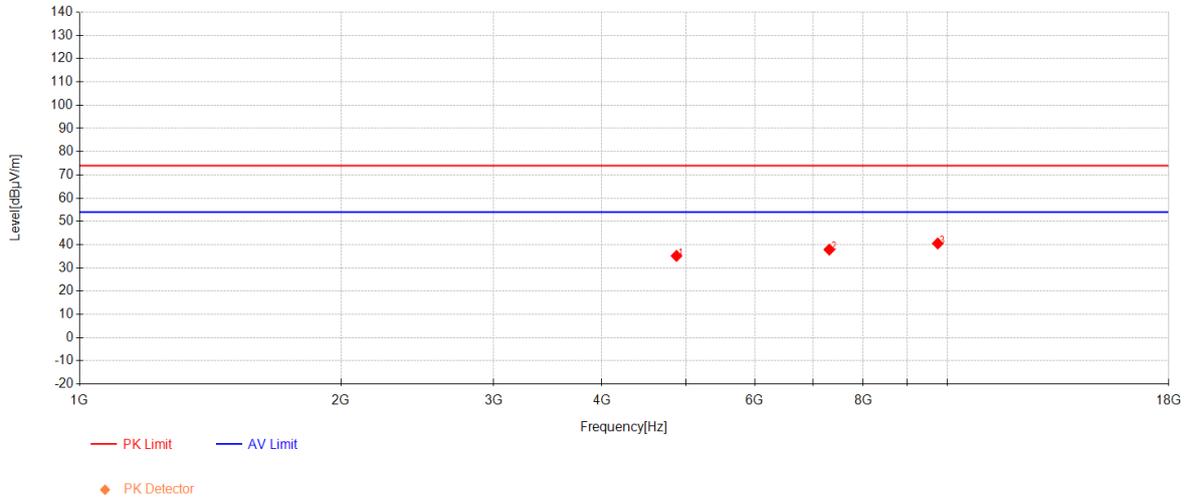


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802.11g_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	43.52	32.92	-41.28	35.16	74.00	38.84	Horizontal
2	7311	38.90	36.37	-37.42	37.85	74.00	36.15	Horizontal
3	9748	35.72	37.82	-33.06	40.49	74.00	33.51	Horizontal

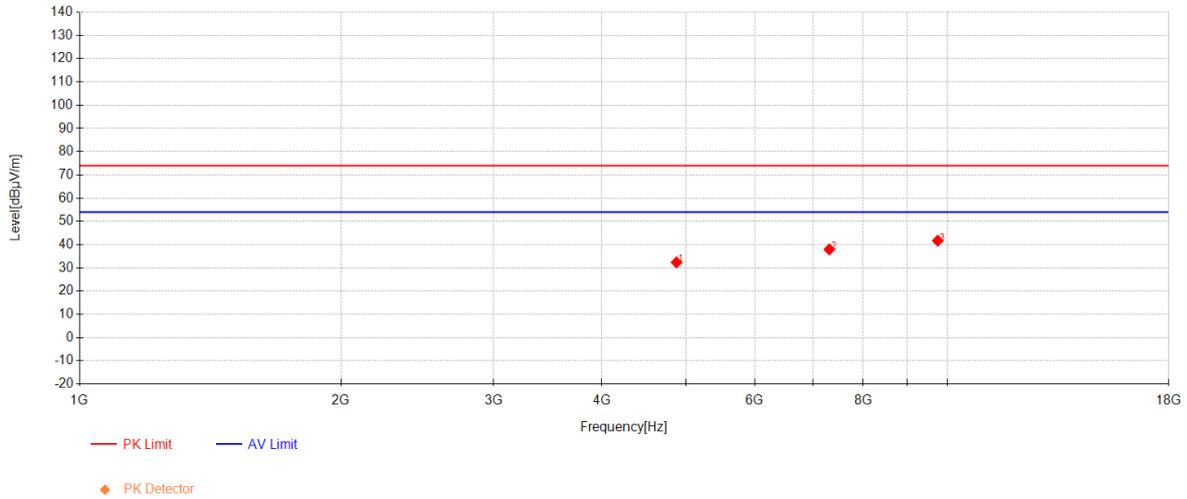


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802.11g_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	40.72	32.92	-41.28	32.36	74.00	41.64	Vertical
2	7311	38.99	36.37	-37.42	37.94	74.00	36.06	Vertical
3	9748	36.93	37.82	-33.06	41.70	74.00	32.30	Vertical

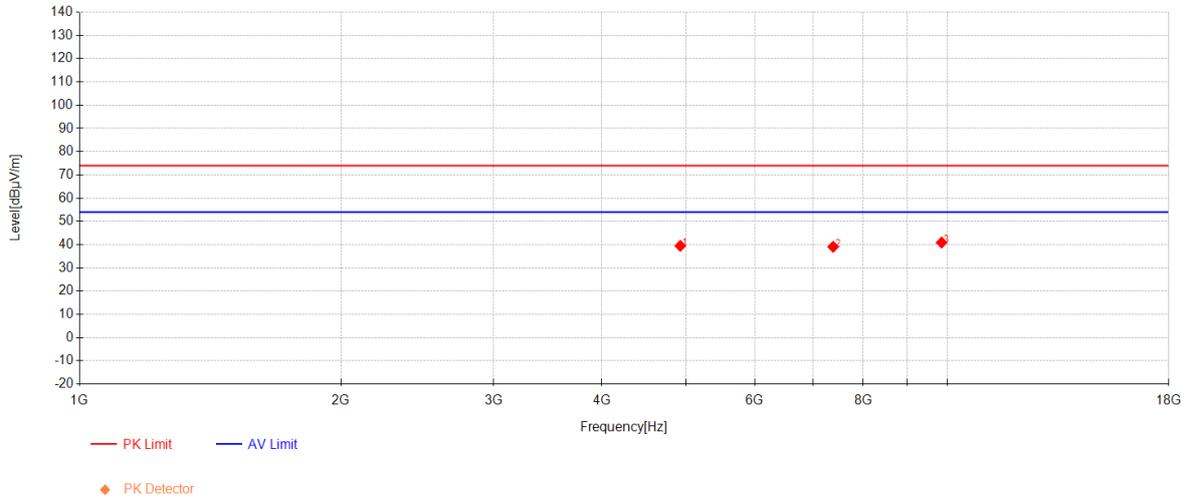


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802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	47.71	33.03	-41.26	39.48	74.00	34.52	Horizontal
2	7386	40.43	36.46	-37.82	39.08	74.00	34.92	Horizontal
3	9848	35.90	37.85	-32.85	40.90	74.00	33.10	Horizontal

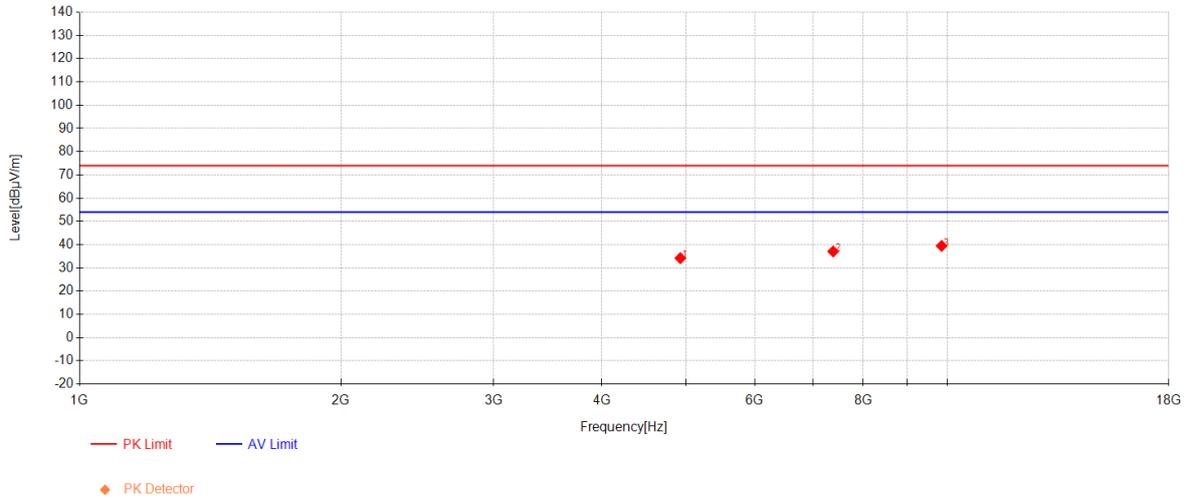


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802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	42.41	33.03	-41.26	34.18	74.00	39.82	Vertical
2	7386	38.42	36.46	-37.82	37.07	74.00	36.93	Vertical
3	9848	34.45	37.85	-32.85	39.45	74.00	34.55	Vertical

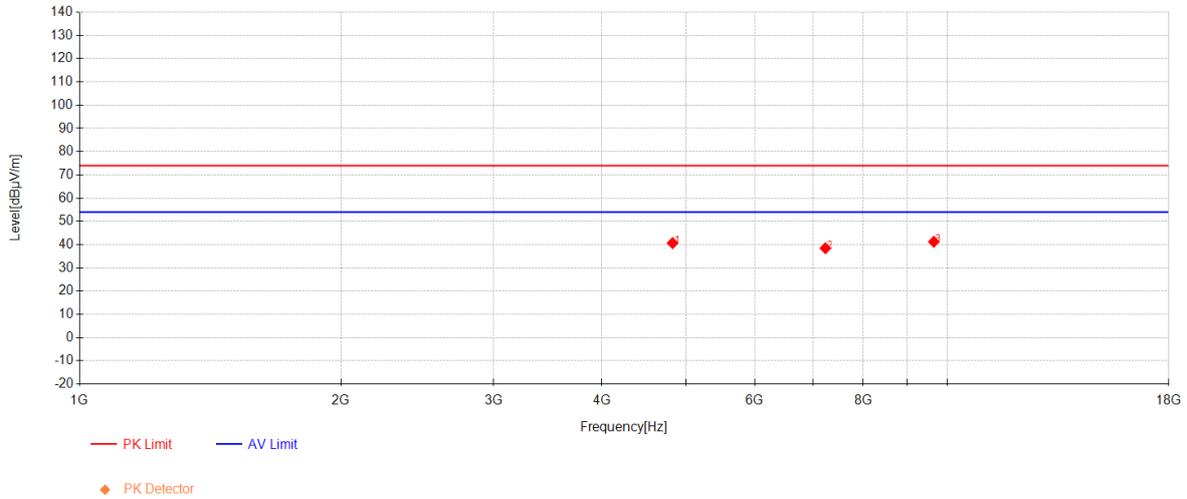


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802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	49.28	32.81	-41.43	40.66	74.00	33.34	Horizontal
2	7236	39.96	36.28	-37.81	38.44	74.00	35.56	Horizontal
3	9648	36.71	37.79	-33.26	41.24	74.00	32.76	Horizontal

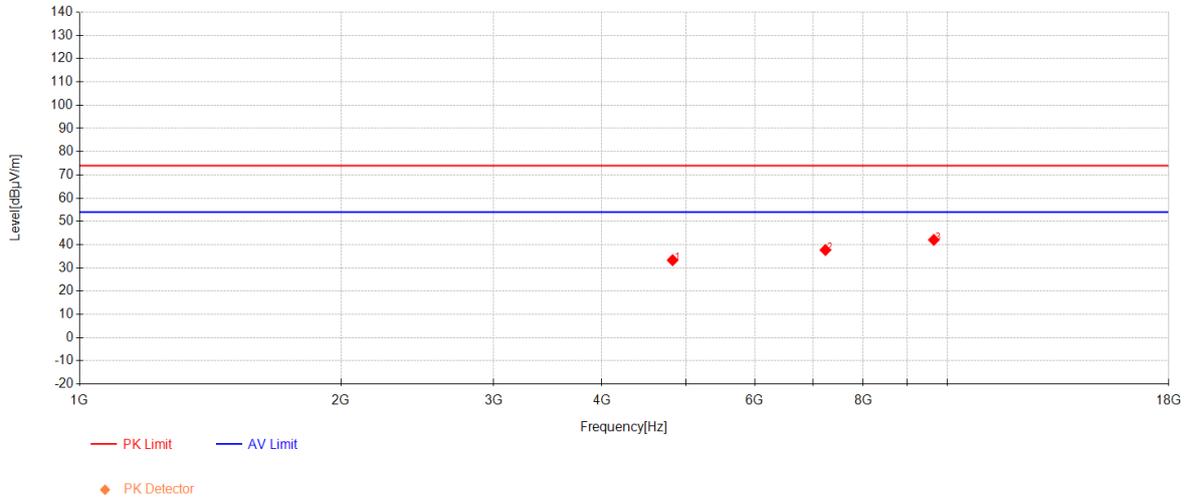


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802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	41.93	32.81	-41.43	33.31	74.00	40.69	Vertical
2	7236	39.19	36.28	-37.81	37.67	74.00	36.33	Vertical
3	9648	37.53	37.79	-33.26	42.06	74.00	31.94	Vertical

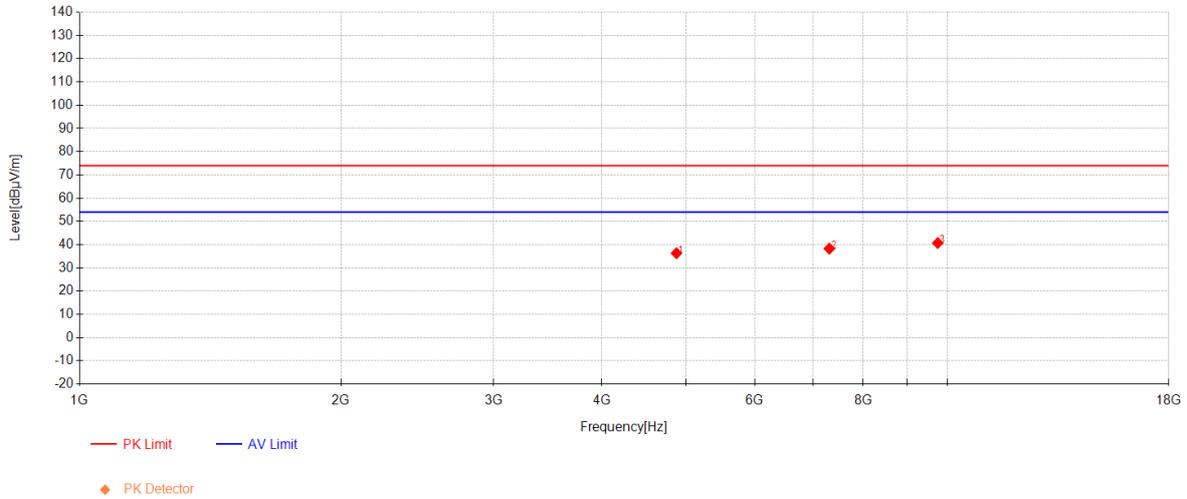


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802.11n20_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	44.66	32.92	-41.28	36.30	74.00	37.70	Horizontal
2	7311	39.32	36.37	-37.42	38.27	74.00	35.73	Horizontal
3	9748	35.92	37.82	-33.06	40.69	74.00	33.31	Horizontal

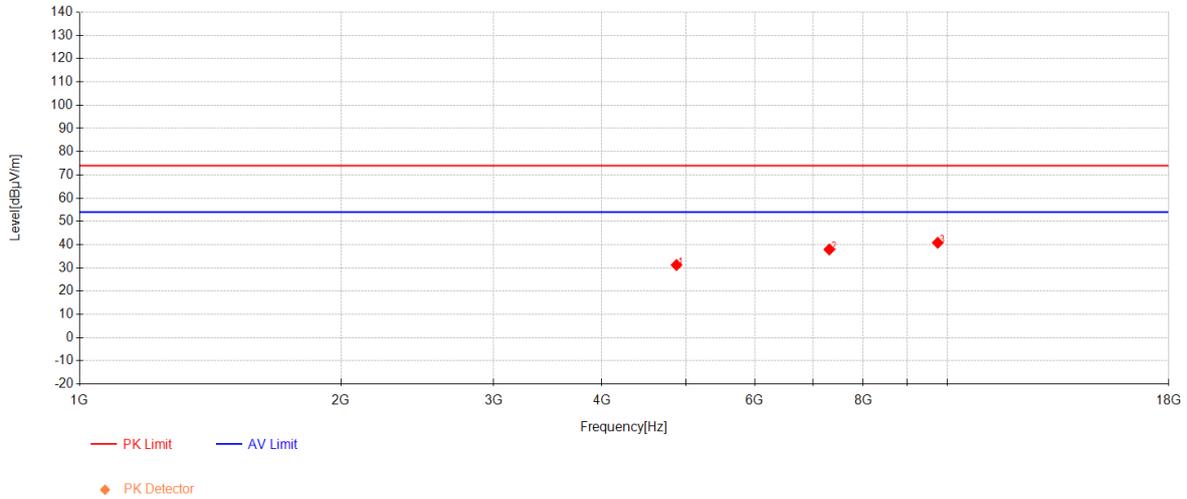


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802.11n20_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	39.60	32.92	-41.28	31.24	74.00	42.76	Vertical
2	7311	38.96	36.37	-37.42	37.91	74.00	36.09	Vertical
3	9748	36.04	37.82	-33.06	40.81	74.00	33.19	Vertical

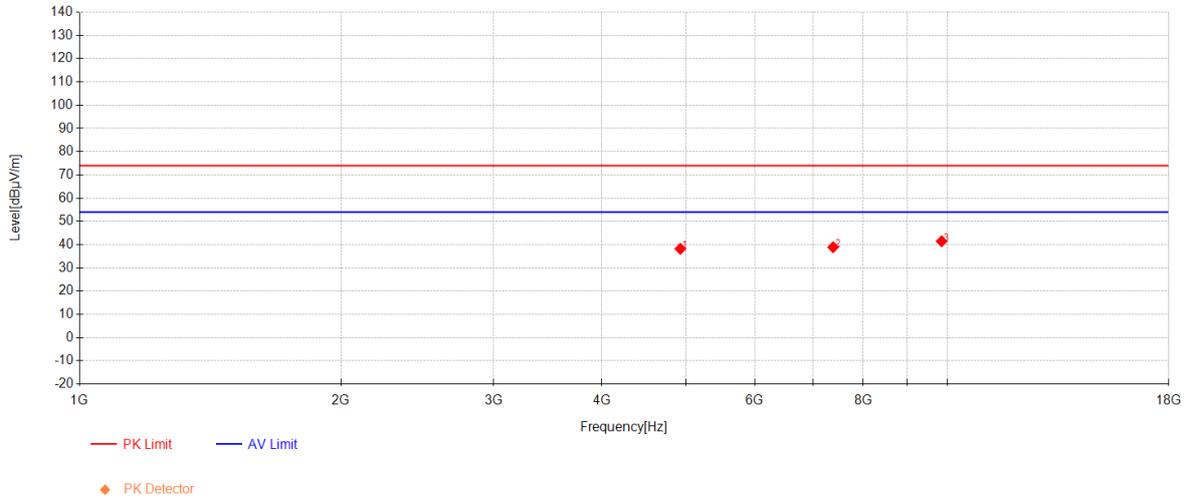


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802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	46.43	33.03	-41.26	38.20	74.00	35.80	Horizontal
2	7386	40.24	36.46	-37.82	38.89	74.00	35.11	Horizontal
3	9848	36.44	37.85	-32.85	41.44	74.00	32.56	Horizontal

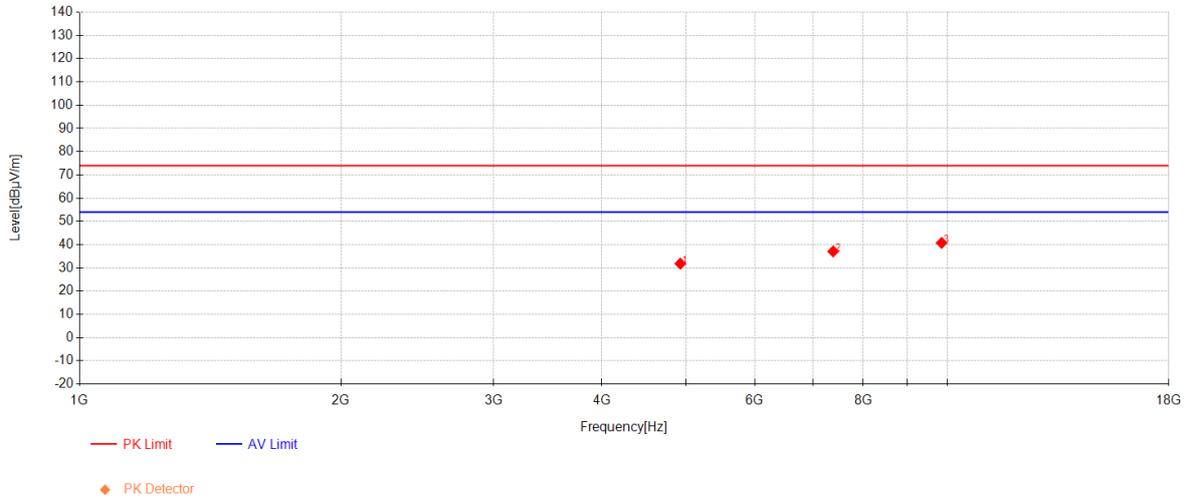


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802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	40.07	33.03	-41.26	31.84	74.00	42.16	Vertical
2	7386	38.44	36.46	-37.82	37.09	74.00	36.91	Vertical
3	9848	35.77	37.85	-32.85	40.77	74.00	33.23	Vertical

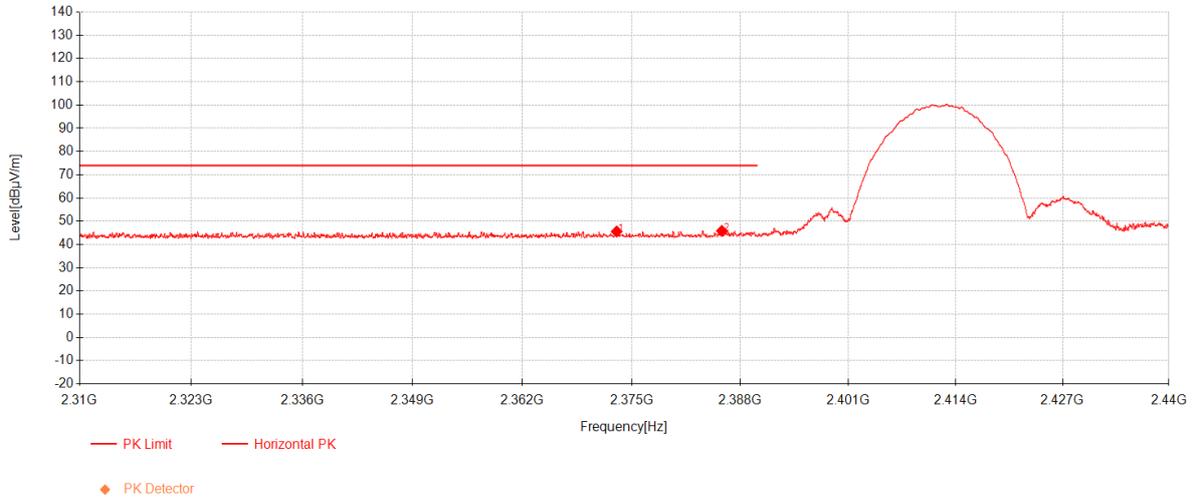
Remark:

- 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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- 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"



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]	Polarity
1	2373.2125	40.91	27.12	-22.44	45.59	74.00	28.41	Horizontal
2	2385.79	41.10	27.15	-22.41	45.84	74.00	28.16	Horizontal



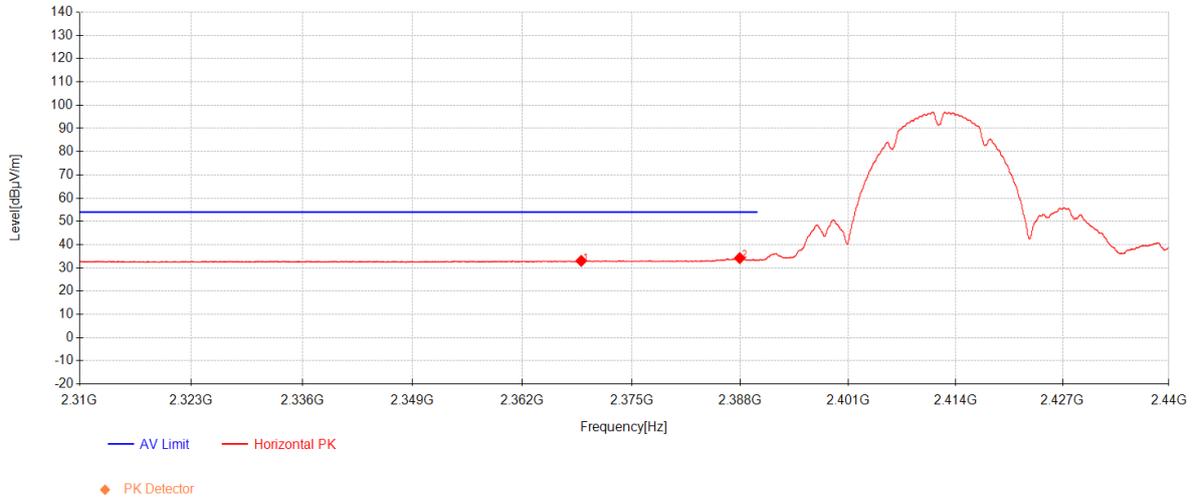
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802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2368.9875	28.35	27.11	-22.45	33.01	54.00	20.99	Horizontal
2	2387.935	29.45	27.15	-22.40	34.20	54.00	19.80	Horizontal



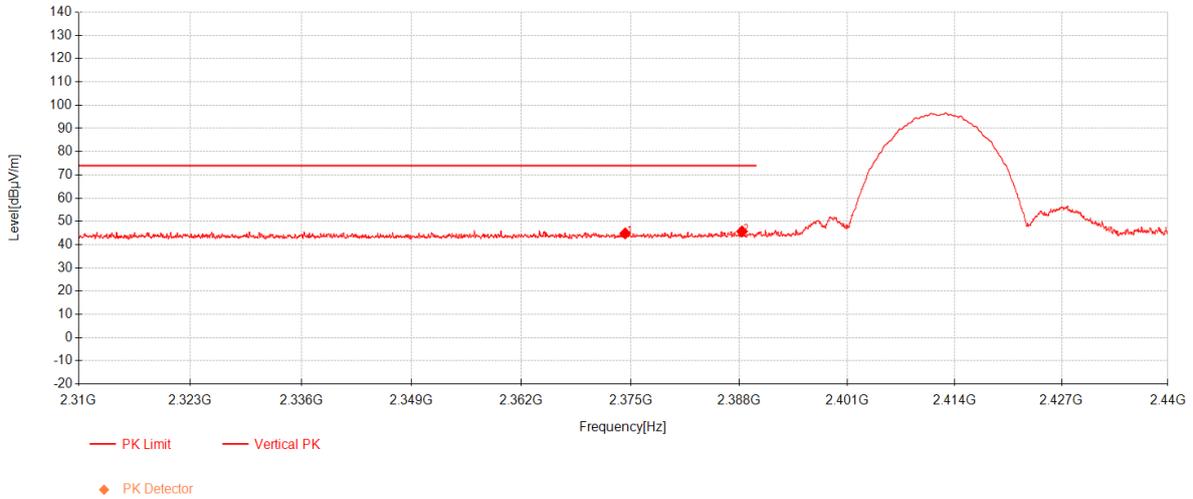
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802.11b_Channel 01



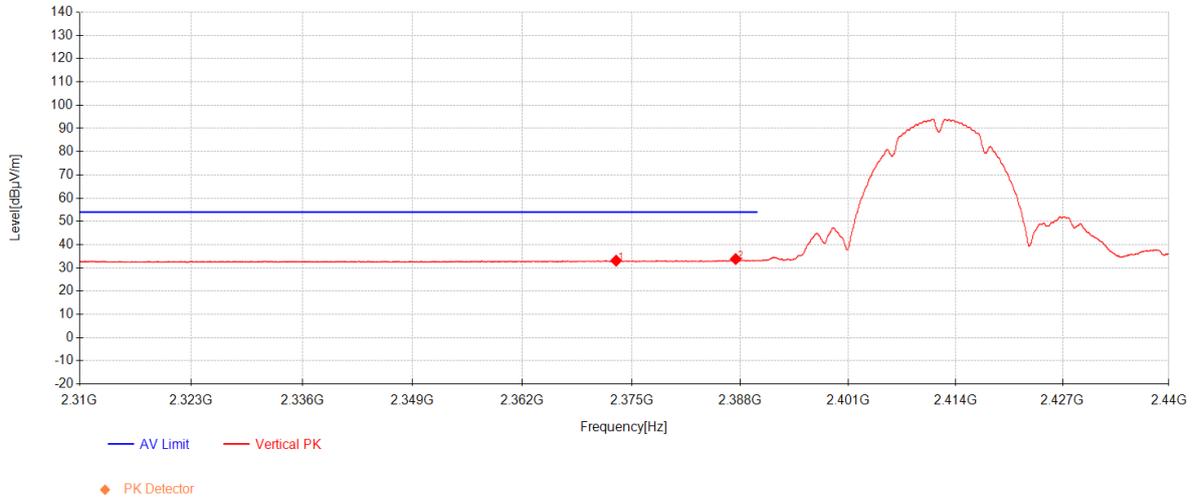
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2374.35	40.14	27.12	-22.44	44.83	74.00	29.17	Vertical
2	2388.325	40.93	27.15	-22.40	45.68	74.00	28.32	Vertical



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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]	Polarity
1	2373.1475	28.42	27.12	-22.44	33.10	54.00	20.90	Vertical
2	2387.4475	29.05	27.15	-22.40	33.80	54.00	20.20	Vertical

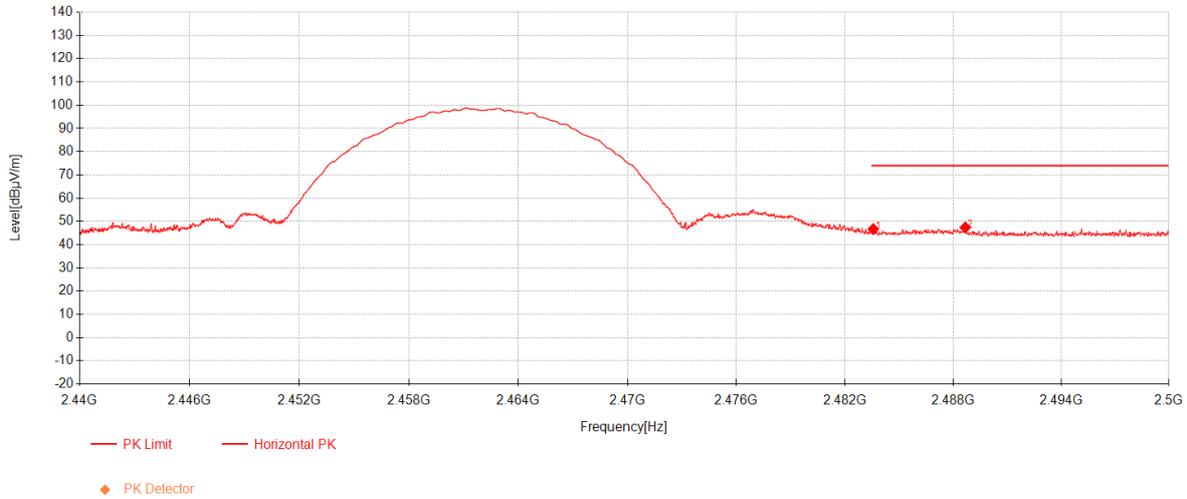


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802.11b_Channel 11



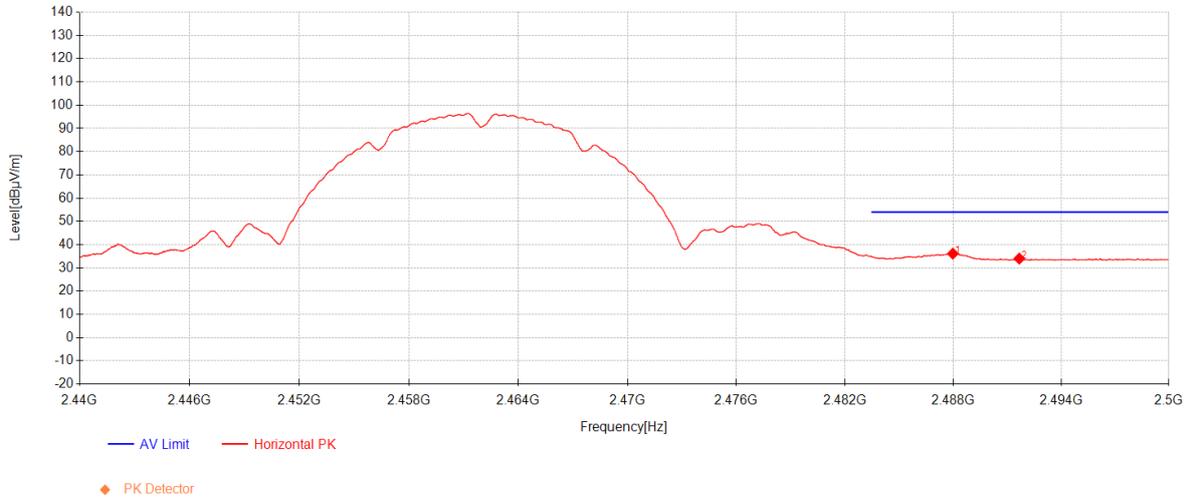
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.575	41.61	27.36	-22.29	46.68	74.00	27.32	Horizontal
2	2488.675	42.29	27.38	-22.29	47.37	74.00	26.63	Horizontal



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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]	Polarity
1	2487.985	31.04	27.37	-22.29	36.12	54.00	17.88	Horizontal
2	2491.675	28.92	27.38	-22.29	34.01	54.00	19.99	Horizontal

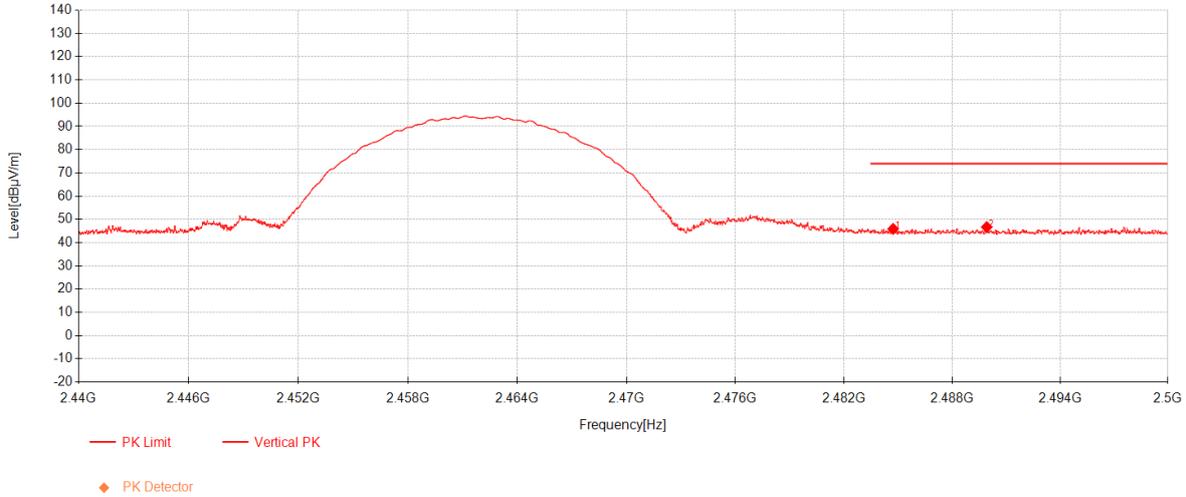


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802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2484.73	40.84	27.37	-22.29	45.91	74.00	28.09	Vertical
2	2489.92	41.61	27.38	-22.29	46.70	74.00	27.30	Vertical

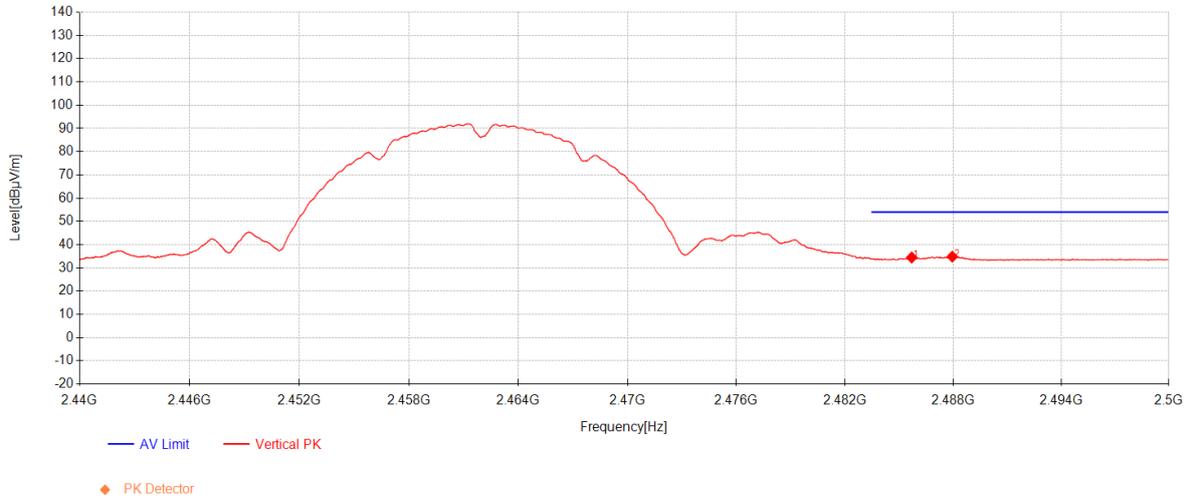


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802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2485.705	29.39	27.37	-22.29	34.47	54.00	19.53	Vertical
2	2487.955	29.75	27.37	-22.29	34.83	54.00	19.17	Vertical

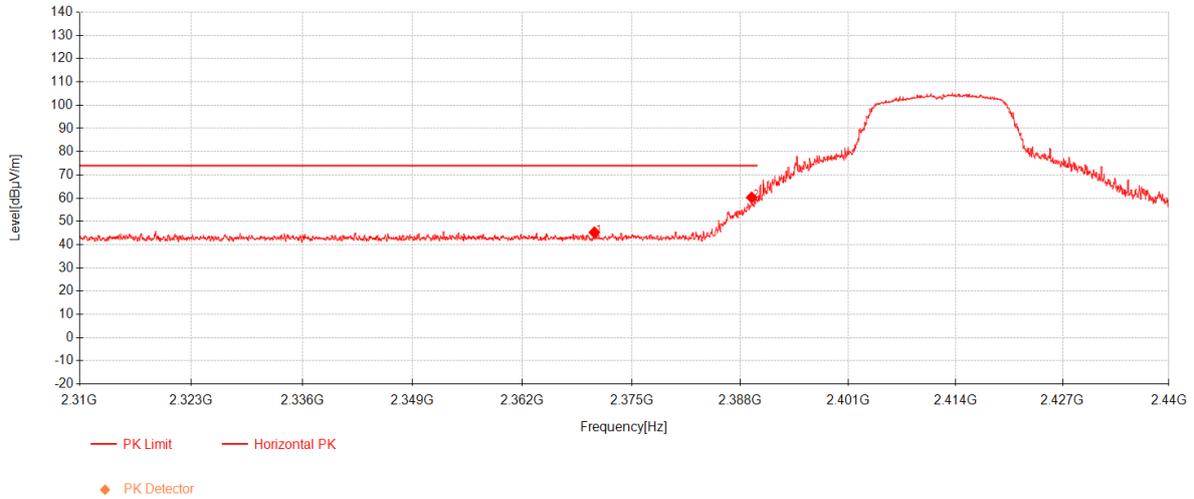


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802.11g_Channel 01



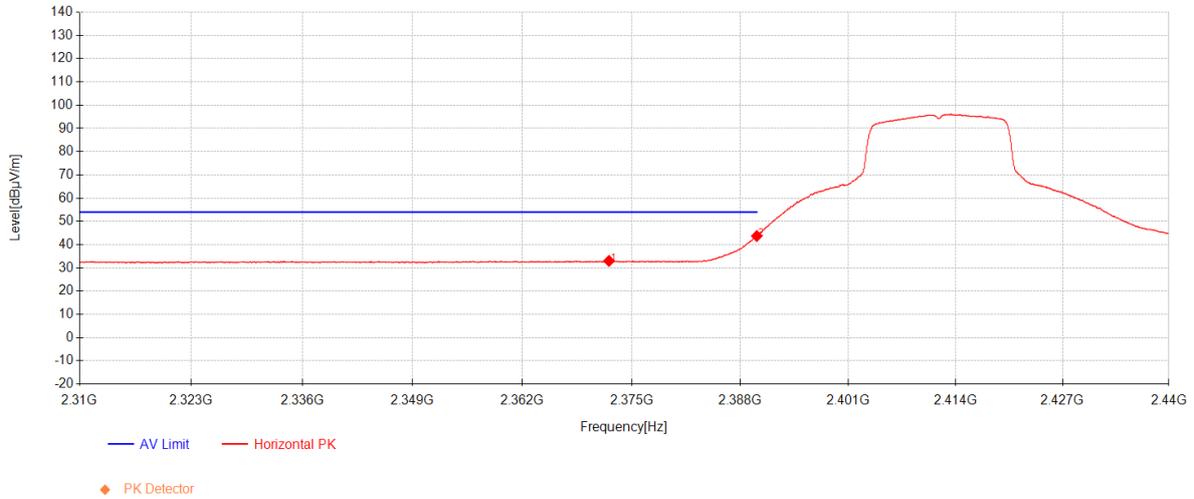
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2370.5475	40.60	27.12	-22.45	45.27	74.00	28.73	Horizontal
2	2389.365	55.53	27.16	-22.40	60.29	74.00	13.71	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2372.3025	28.31	27.12	-22.44	32.99	54.00	21.01	Horizontal
2	2389.9825	38.94	27.16	-22.40	43.70	54.00	10.30	Horizontal

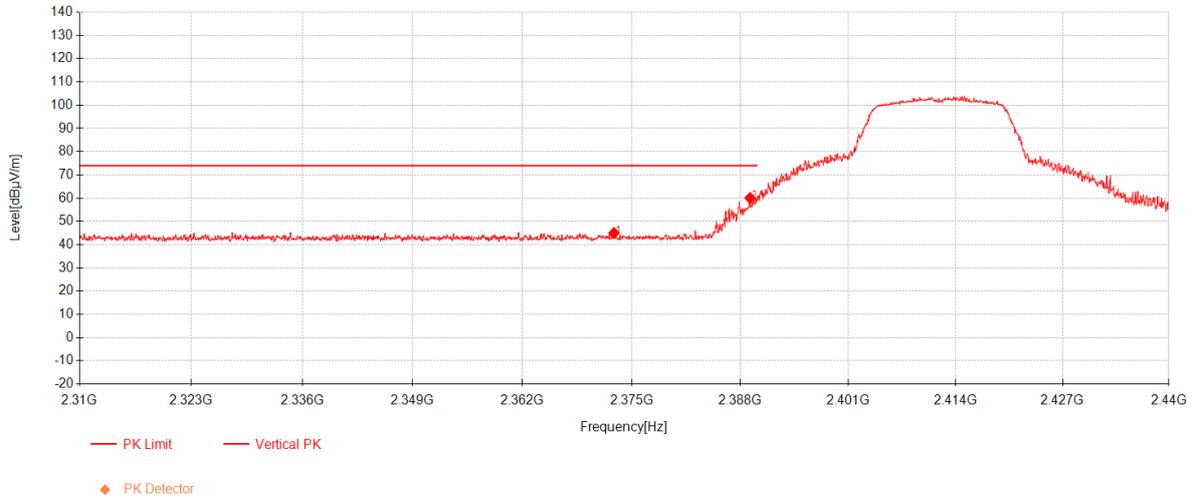


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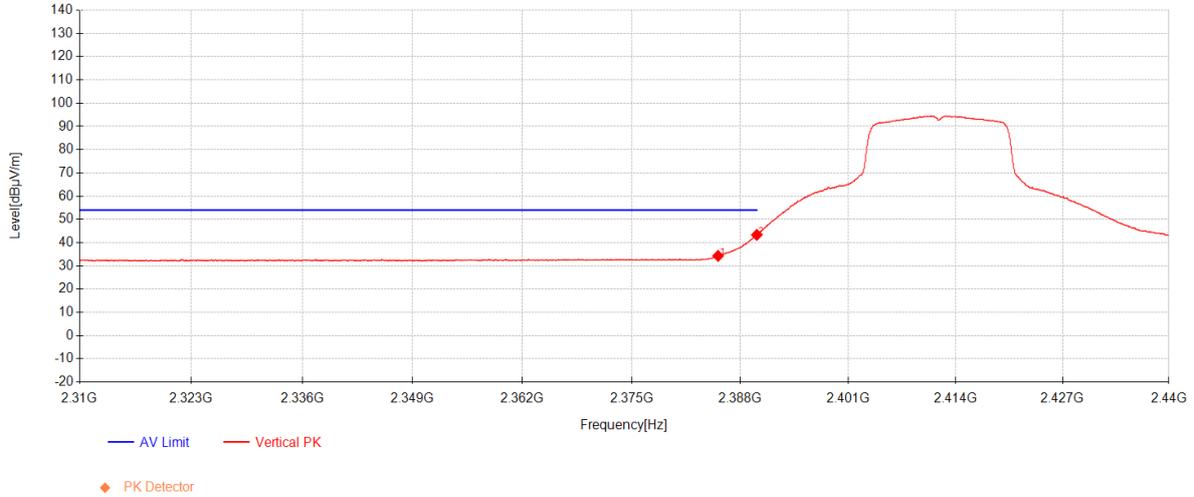
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1	2372.8875	40.31	27.12	-22.44	44.99	74.00	29.01	Vertical
2	2389.17	55.32	27.16	-22.40	60.08	74.00	13.92	Vertical



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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]	Polarity
1	2385.335	29.56	27.15	-22.41	34.30	54.00	19.70	Vertical
2	2389.9825	38.58	27.16	-22.40	43.34	54.00	10.66	Vertical

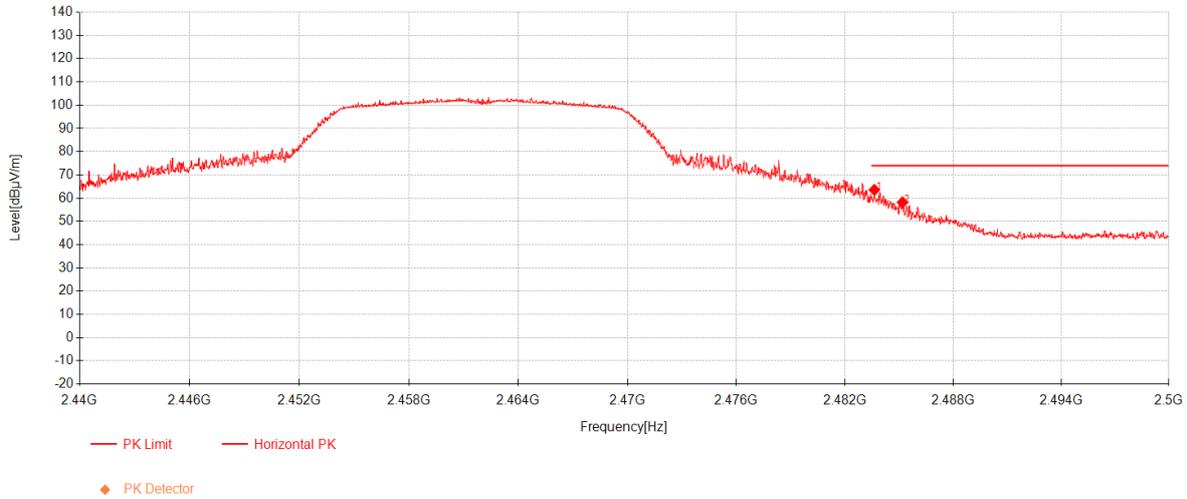


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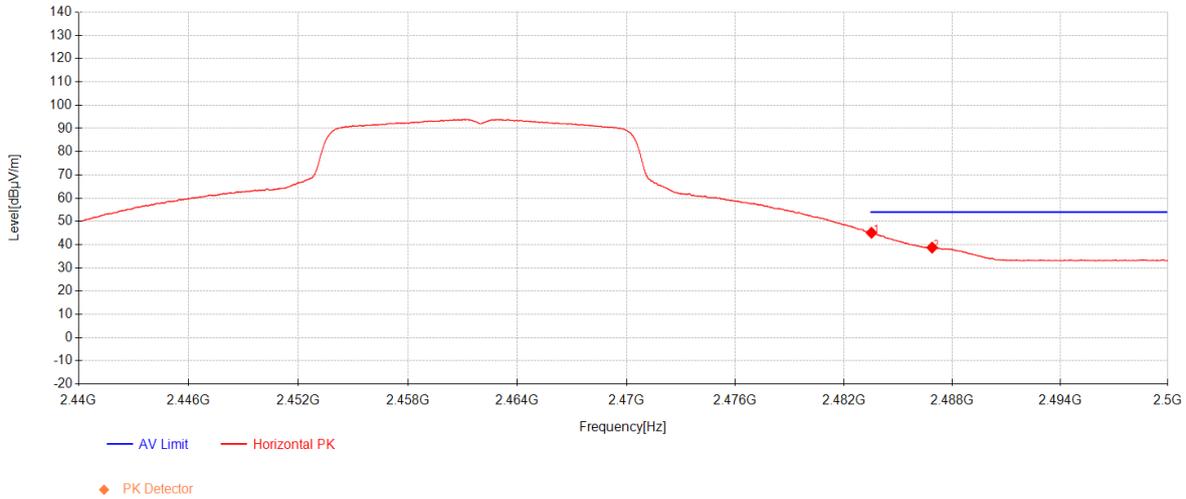
Data List								
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1	2483.635	58.50	27.36	-22.29	63.57	74.00	10.43	Horizontal
2	2485.195	53.13	27.37	-22.29	58.20	74.00	15.80	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.53	40.03	27.36	-22.29	45.10	54.00	8.90	Horizontal
2	2486.89	33.64	27.37	-22.29	38.72	54.00	15.28	Horizontal

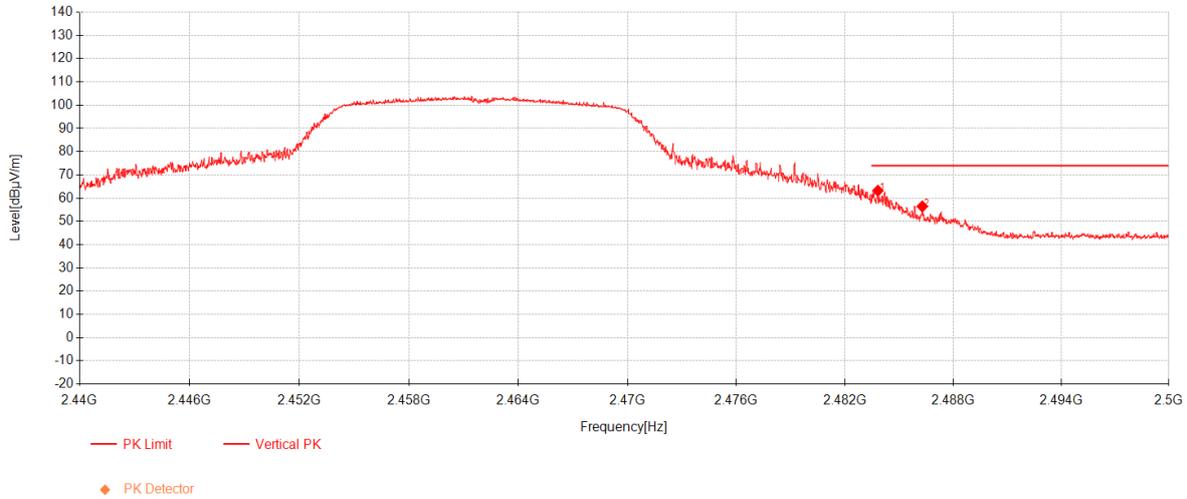


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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.83	58.13	27.36	-22.29	63.20	74.00	10.80	Vertical
2	2486.29	51.36	27.37	-22.29	56.44	74.00	17.56	Vertical

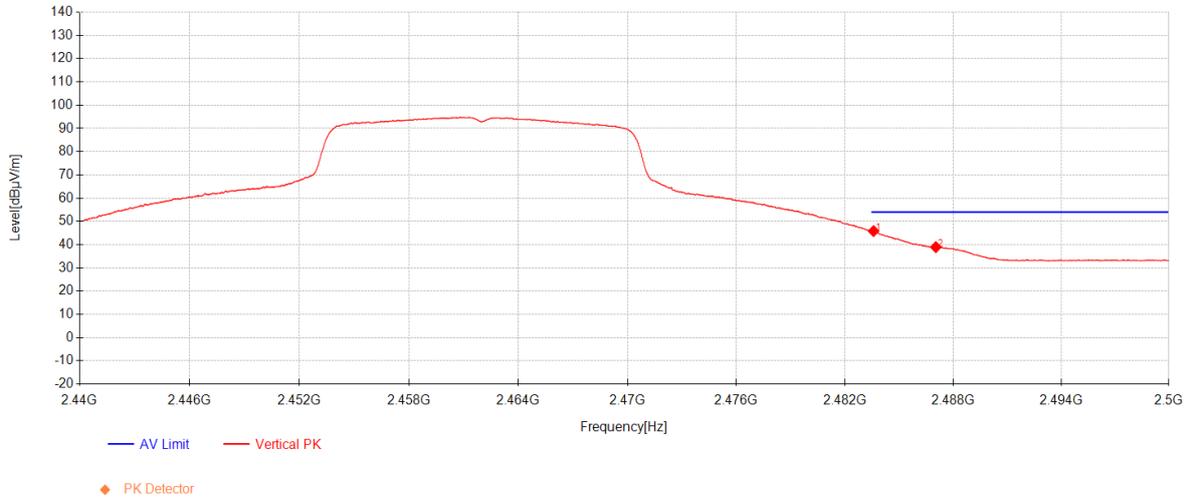


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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.59	40.75	27.36	-22.29	45.82	54.00	8.18	Vertical
2	2487.04	33.84	27.37	-22.29	38.92	54.00	15.08	Vertical

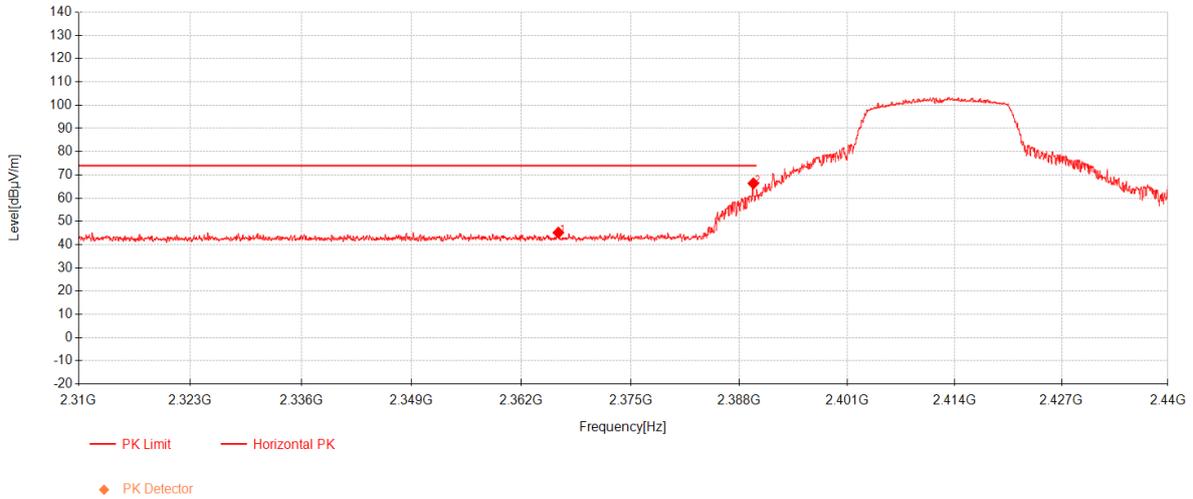


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802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2366.3875	40.51	27.11	-22.46	45.16	74.00	28.84	Horizontal
2	2389.69	61.58	27.16	-22.40	66.34	74.00	7.66	Horizontal

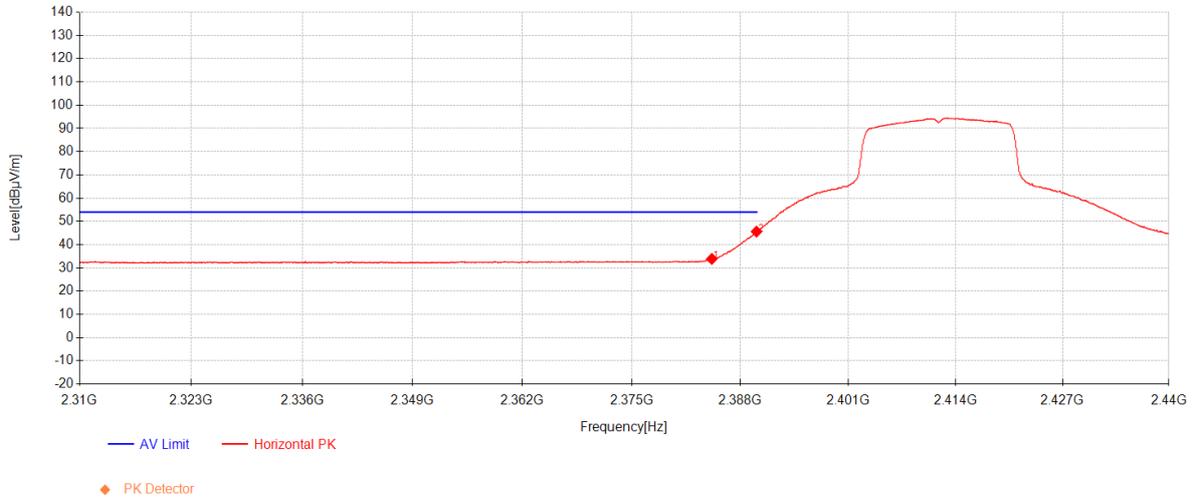


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2384.5875	29.12	27.15	-22.41	33.86	54.00	20.14	Horizontal
2	2389.95	40.85	27.16	-22.40	45.61	54.00	8.39	Horizontal

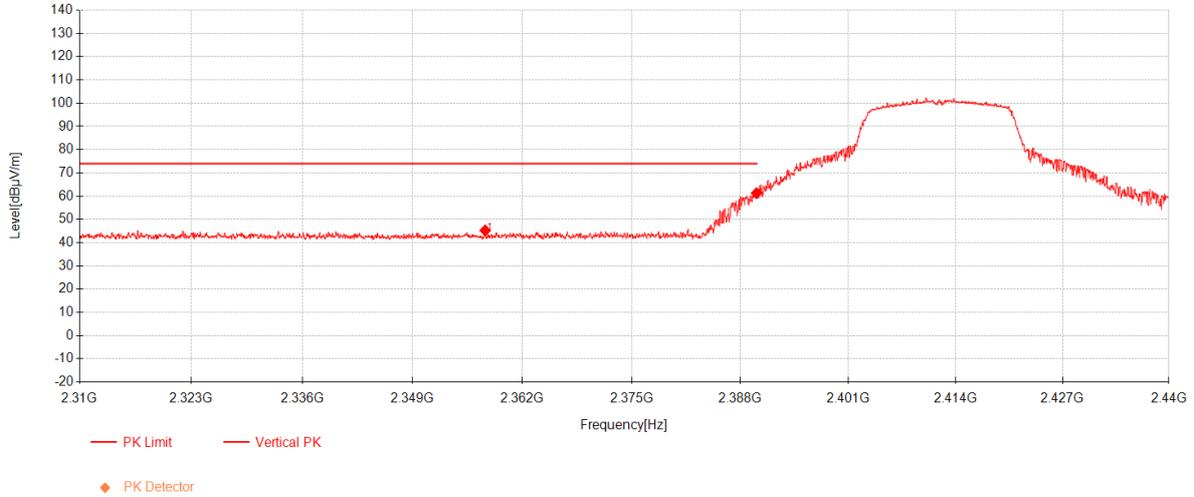


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2357.58	40.62	27.09	-22.48	45.23	74.00	28.77	Vertical
2	2389.95	56.52	27.16	-22.40	61.28	74.00	12.72	Vertical

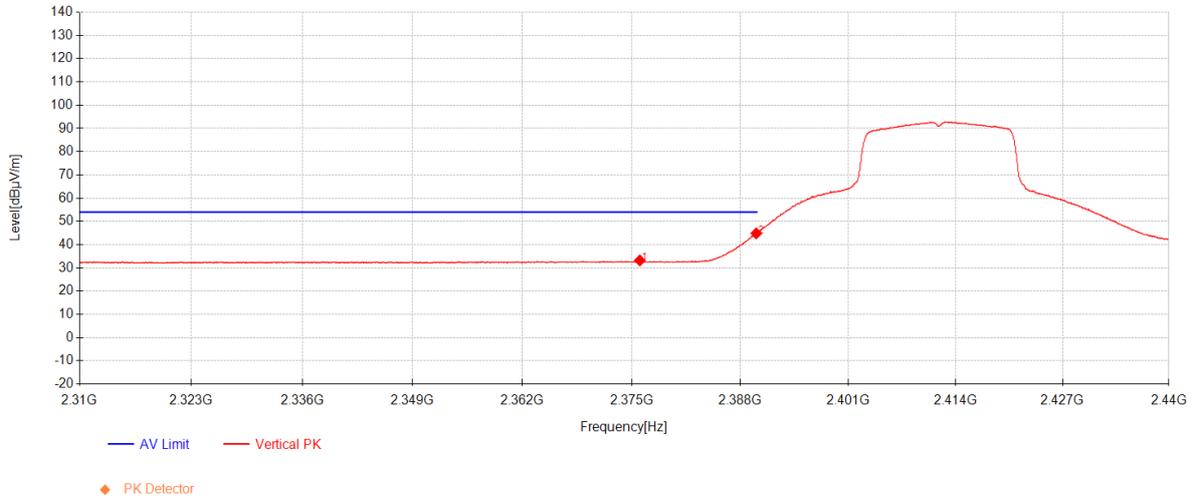


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2375.975	28.51	27.13	-22.43	33.20	54.00	20.80	Vertical
2	2389.9175	40.07	27.16	-22.40	44.83	54.00	9.17	Vertical

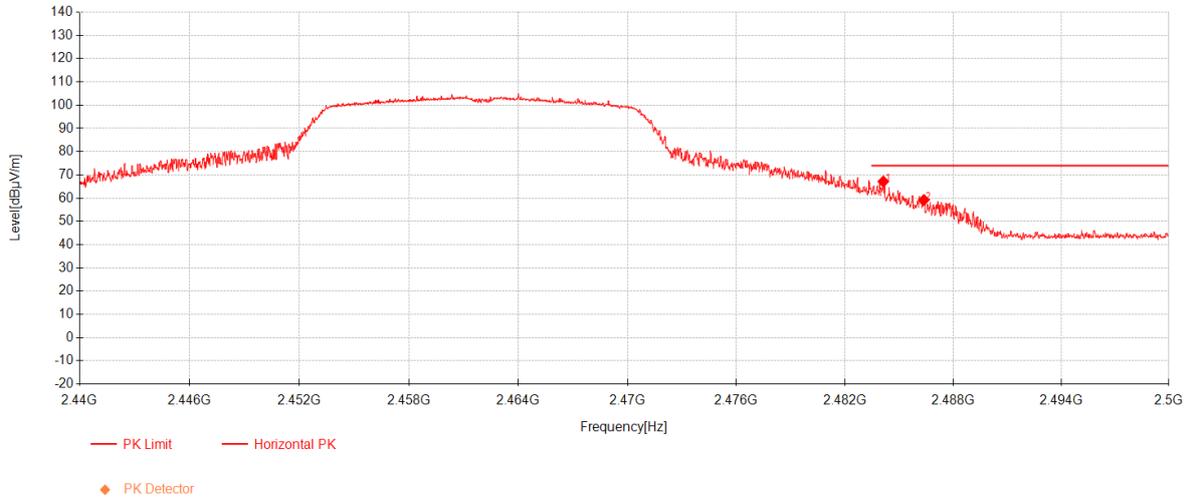


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802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.13	62.09	27.37	-22.29	67.16	74.00	6.84	Horizontal
2	2486.38	54.12	27.37	-22.29	59.20	74.00	14.80	Horizontal

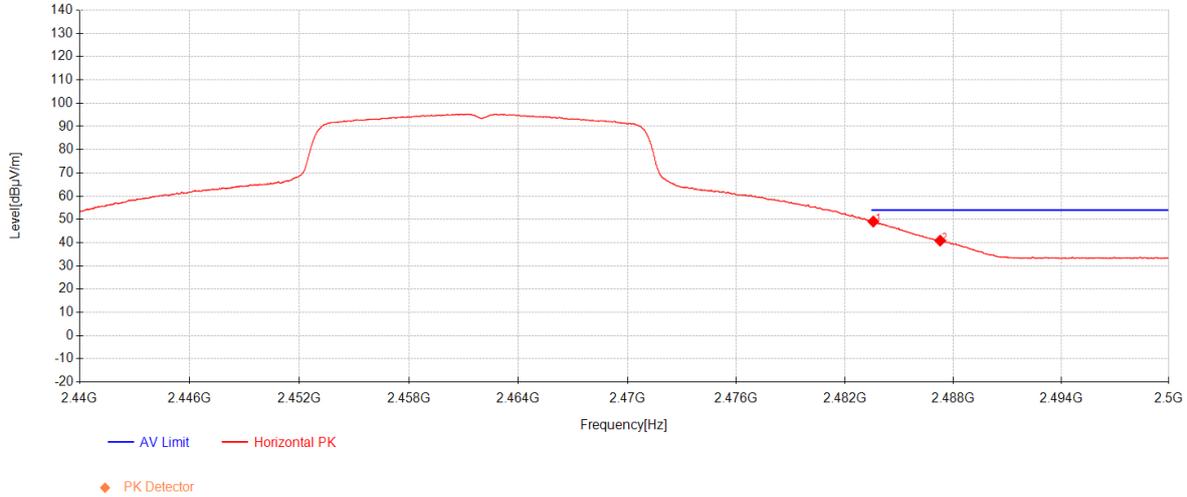


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.575	43.98	27.36	-22.29	49.05	54.00	4.95	Horizontal
2	2487.28	35.77	27.37	-22.29	40.85	54.00	13.15	Horizontal

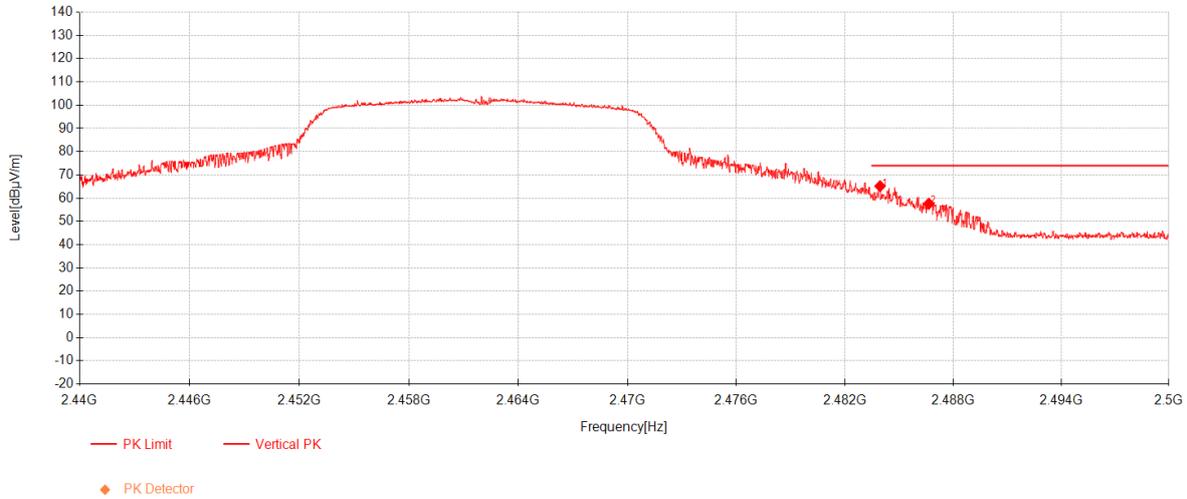


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.95	60.10	27.36	-22.29	65.17	74.00	8.83	Vertical
2	2486.65	52.56	27.37	-22.29	57.64	74.00	16.36	Vertical

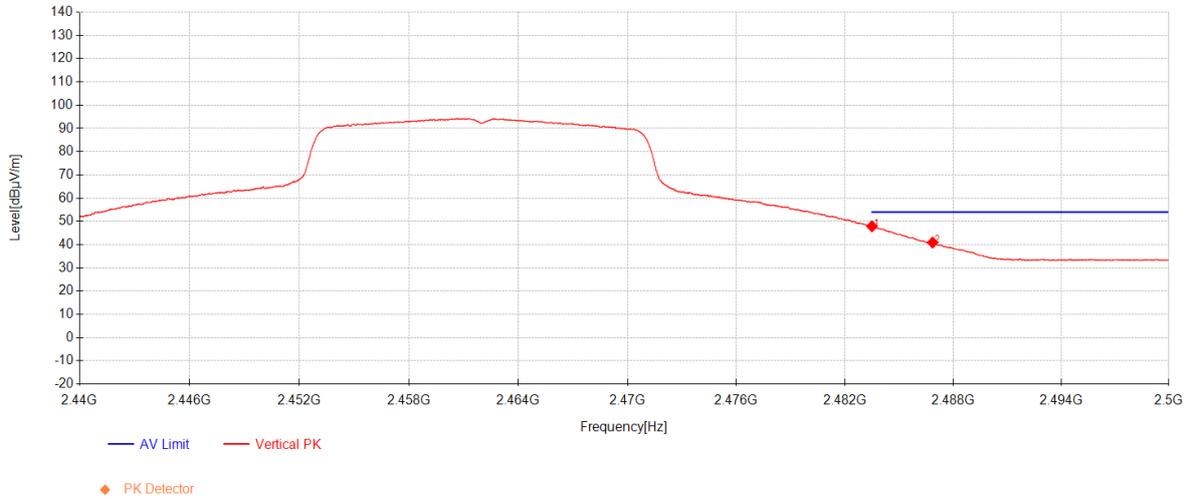


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1	2483.5	42.81	27.36	-22.29	47.88	54.00	6.12	Vertical
2	2486.86	35.81	27.37	-22.29	40.89	54.00	13.11	Vertical

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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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