

Report No.: SEWM2207000122RG04

Rev.: 01

Page: 1 of 109

TEST REPORT

Application No.: SEWM2207000122RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: TB350XU
Trade Mark: Lenovo
FCC ID: O57TB350XU
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/07/13
Date of Test: 2022/07/20 to 2022/08/10
Date of Issue: 2022/08/15

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:


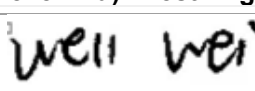
Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/08/15		Original

Prepared By		 <hr/> (Weller Liu) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

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



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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

3.2 Test Location

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

3.3 Test Facility

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

<ul style="list-style-type: none"> 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:	Portable Tablet Computer	
Model No.:	TB350XU	
Trade Mark:	Lenovo	
Hardware Version:	TB350XU	
Software Version:	TB350XU_RF01_220808	
IMEI:	RF Conducted	869309060013013 869309060013078
	RSE & AC power line	869309060013369 869309060011819
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/VHT/ax: Tx & Rx
		STBC: 802.11n/VHT/ax: Tx & Rx
		TXBF: 802.11n/VHT/ax: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	PIFA Antenna	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	-1.2dBi(Ant4)	
RF Cable:	1.0dB	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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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	3.86
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 -1.2dBi(Ant4). (Provided by client)*.</p> <p><i>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</i></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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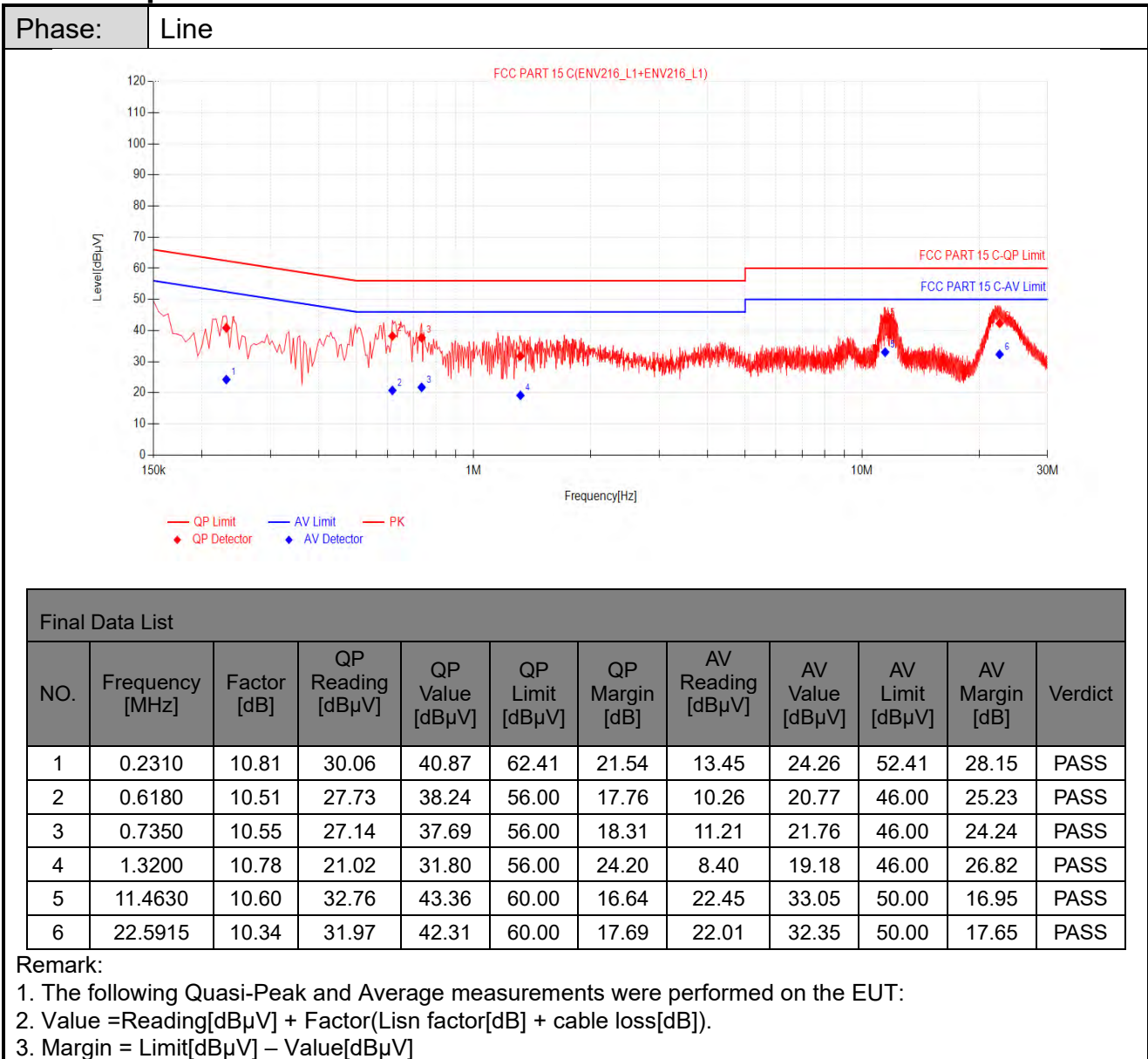
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Measurement Data

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.

For Sample #1:

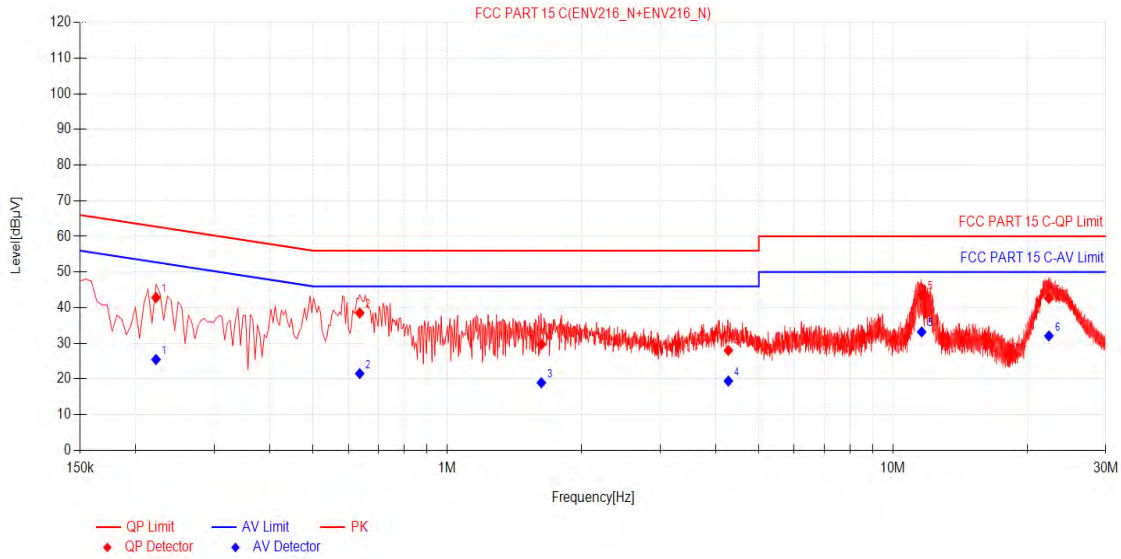


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2220	10.69	32.16	42.85	62.74	19.89	14.78	25.47	52.74	27.27	PASS
2	0.6360	10.73	27.80	38.53	56.00	17.47	10.80	21.53	46.00	24.47	PASS
3	1.6260	10.77	18.95	29.72	56.00	26.28	8.17	18.94	46.00	27.06	PASS
4	4.2720	10.72	17.30	28.02	56.00	27.98	8.71	19.43	46.00	26.57	PASS
5	11.5935	10.65	32.90	43.55	60.00	16.45	22.54	33.19	50.00	16.81	PASS
6	22.3755	10.45	32.17	42.62	60.00	17.38	21.63	32.08	50.00	17.92	PASS

Remark:

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

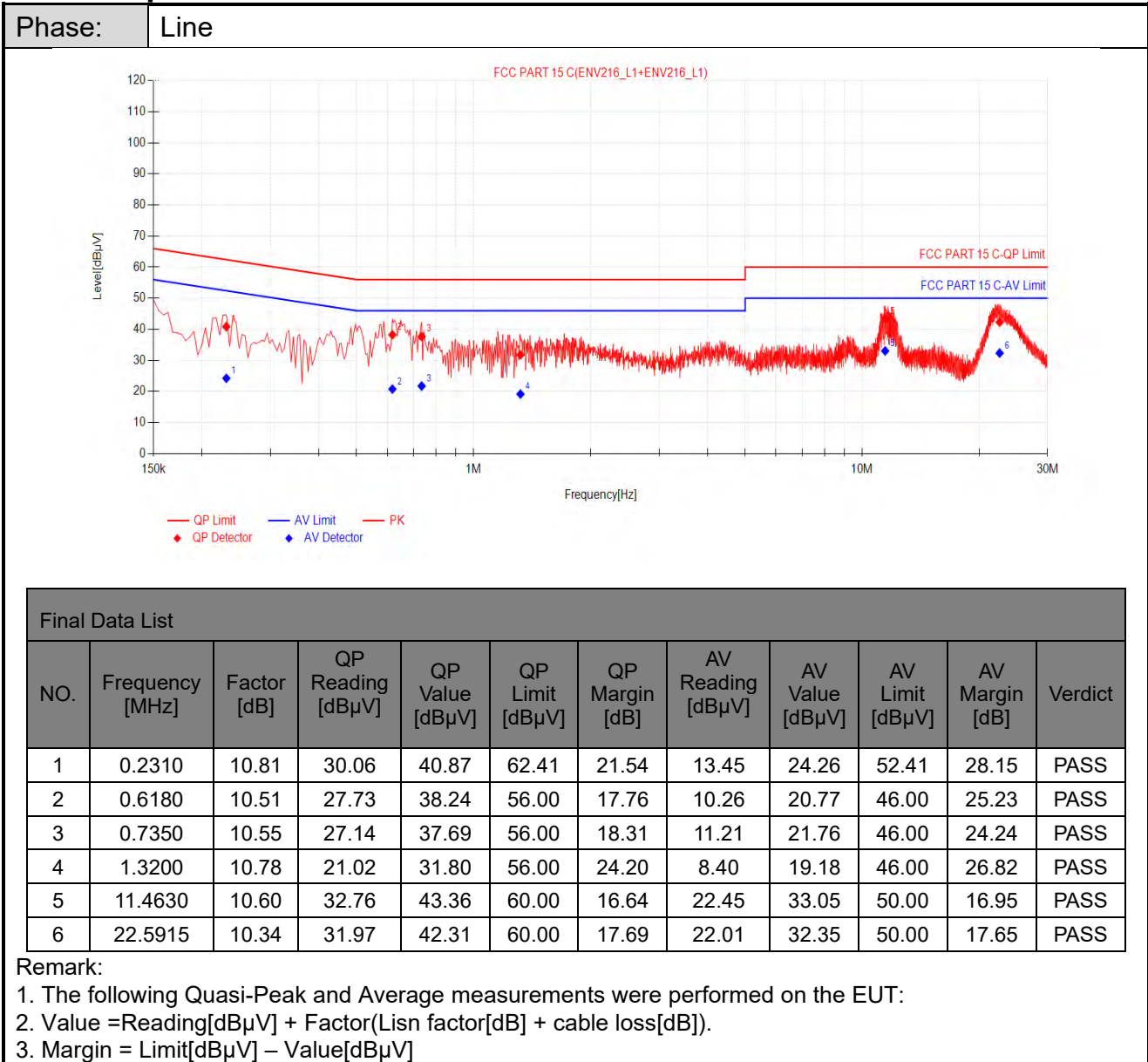


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For Sample #2:

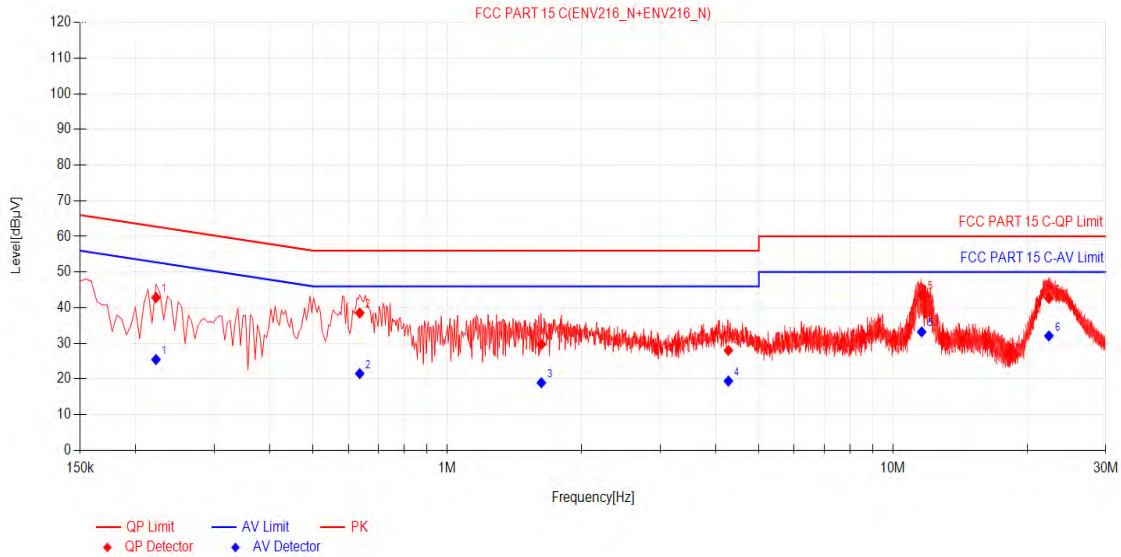


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2220	10.69	32.16	42.85	62.74	19.89	14.78	25.47	52.74	27.27	PASS
2	0.6360	10.73	27.80	38.53	56.00	17.47	10.80	21.53	46.00	24.47	PASS
3	1.6260	10.77	18.95	29.72	56.00	26.28	8.17	18.94	46.00	27.06	PASS
4	4.2720	10.72	17.30	28.02	56.00	27.98	8.71	19.43	46.00	26.57	PASS
5	11.5935	10.65	32.90	43.55	60.00	16.45	22.54	33.19	50.00	16.81	PASS
6	22.3755	10.45	32.17	42.62	60.00	17.38	21.63	32.08	50.00	17.92	PASS

Remark:

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



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Report No.: SEWM2207000122RG04

Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

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



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	



4.7 Band-edge for RF Conducted Emissions

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



4.8 RF Conducted Spurious Emissions

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



4.9 Radiated Spurious Emissions

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



Test Setup:

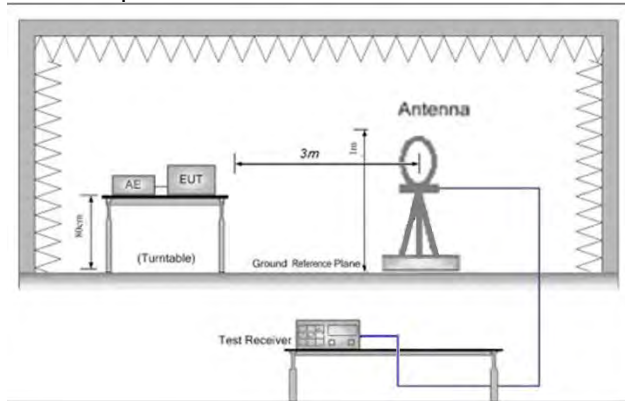


Figure 1. Below 30MHz

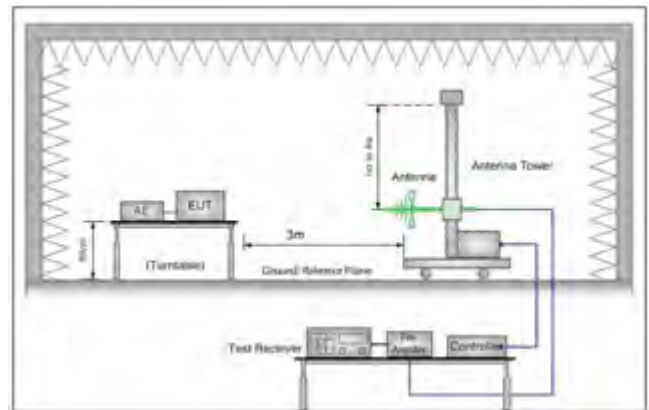


Figure 2. 30MHz to 1GHz

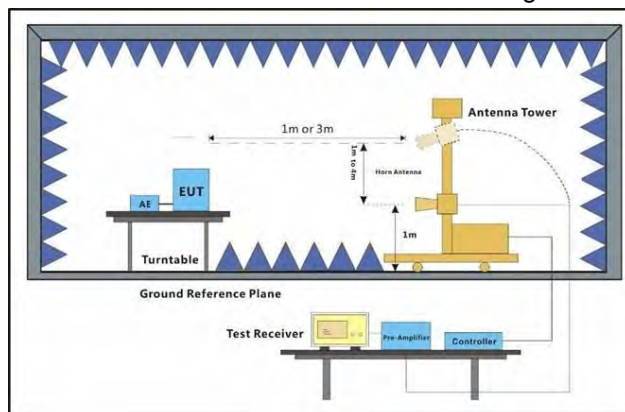


Figure 3. Above 1 GHz

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



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



4.10 Restricted bands around fundamental frequency

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

Test Setup:

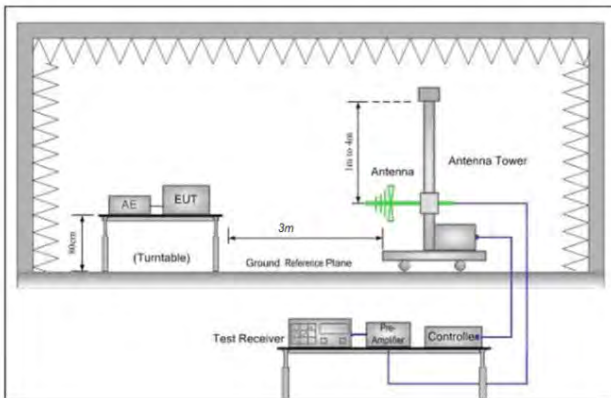


Figure 1. 30MHz to 1GHz

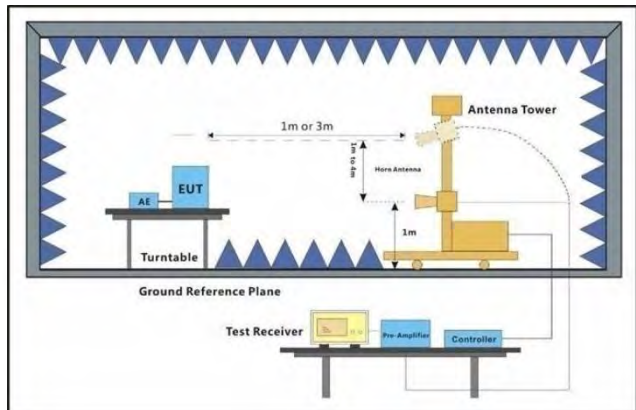


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	7.60	2407.96	2415.56	≥0.5	PASS
		2437	8.16	2432.92	2441.08	≥0.5	PASS
		2462	6.68	2458.40	2465.08	≥0.5	PASS
11g	Ant1	2412	14.76	2404.80	2419.56	≥0.5	PASS
		2437	15.12	2429.44	2444.56	≥0.5	PASS
		2462	15.44	2454.16	2469.60	≥0.5	PASS
11n20SISO	Ant1	2412	15.16	2404.44	2419.60	≥0.5	PASS
		2437	15.40	2429.40	2444.80	≥0.5	PASS
		2462	15.16	2454.40	2469.56	≥0.5	PASS



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Test Graphs

11b Ant1 2412



06:11:01 05.08.2022

11b Ant1 2437



06:14:29 05.08.2022



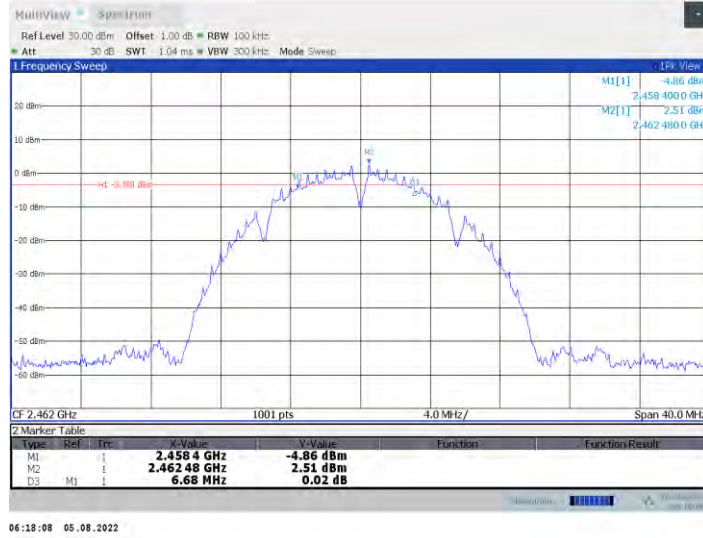
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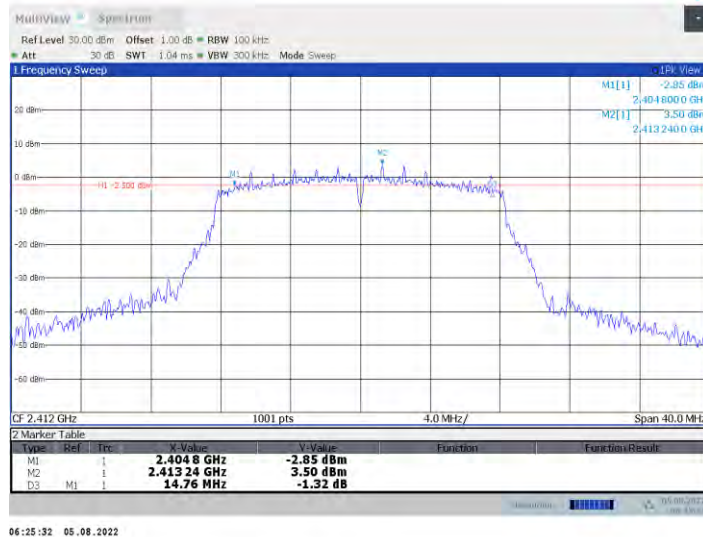
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11b Ant1 2462



06:18:08 05.08.2022

11g Ant1 2412



06:25:32 05.08.2022



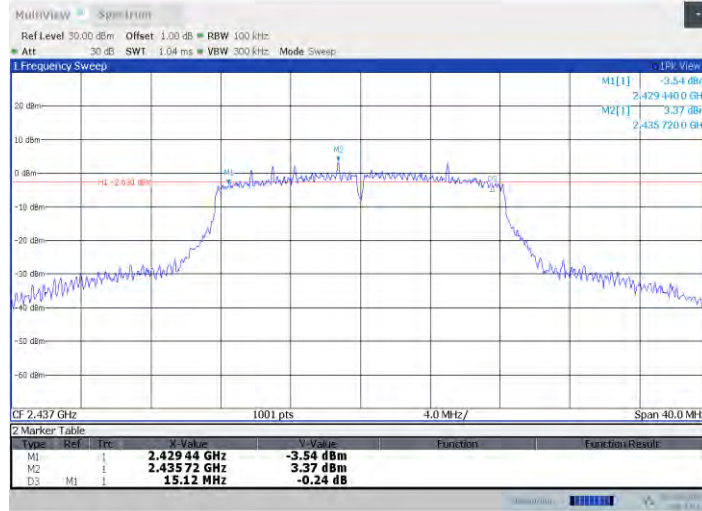
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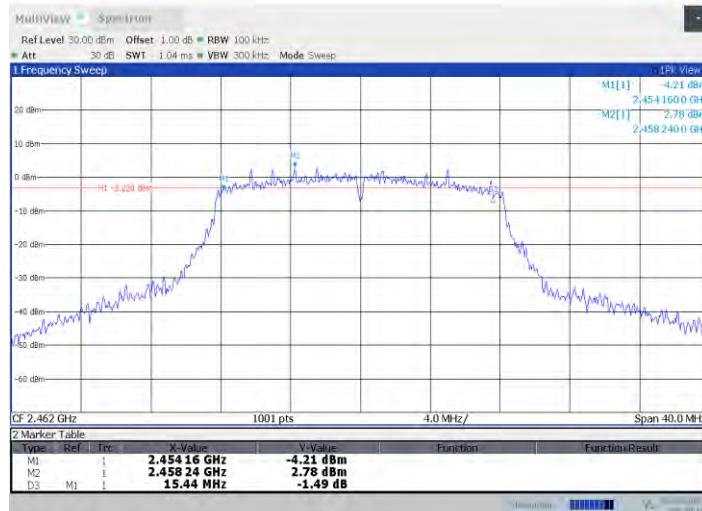
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11g Ant1_2437



06:27:11 05.08.2022

11g Ant1_2462



06:30:19 05.08.2022



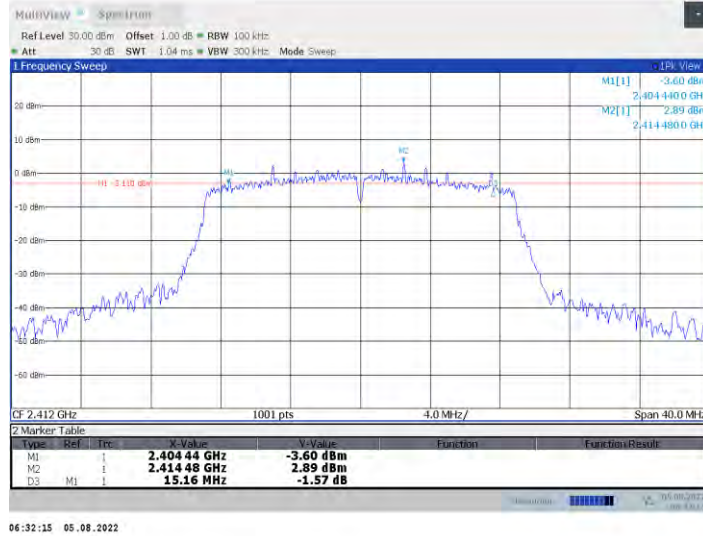
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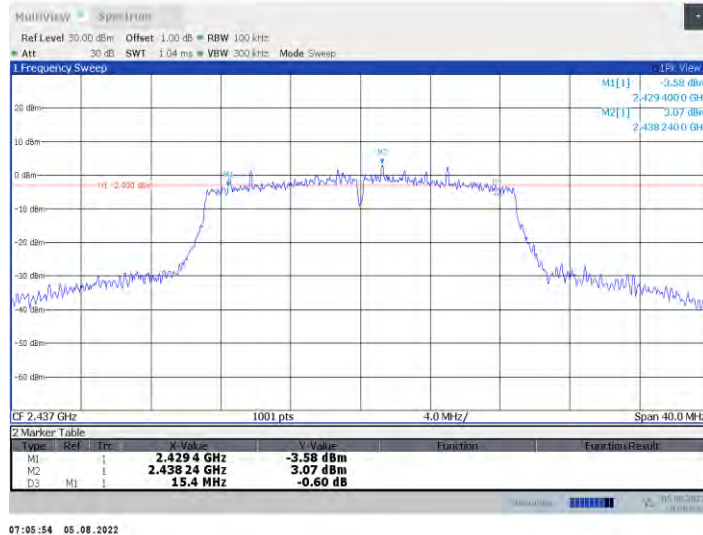
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

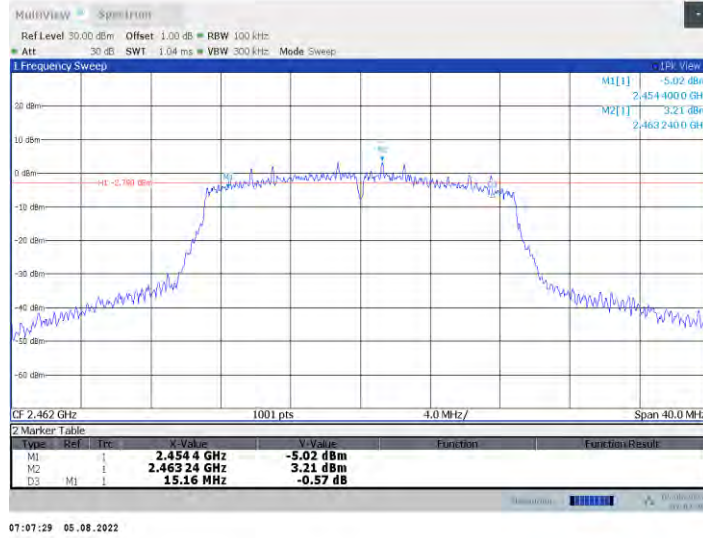


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11n20SISO_Ant1_2462



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	12.194	2405.916	2418.110	Reporting only
		2437	12.903	2430.602	2443.504	
		2462	12.189	2455.789	2467.978	
11g	Ant1	2412	16.814	2403.548	2420.362	
		2437	17.087	2428.447	2445.534	
		2462	16.820	2453.485	2470.305	
11n20SISO	Ant1	2412	17.775	2403.081	2420.856	
		2437	18.043	2427.944	2445.986	
		2462	17.753	2453.050	2470.803	



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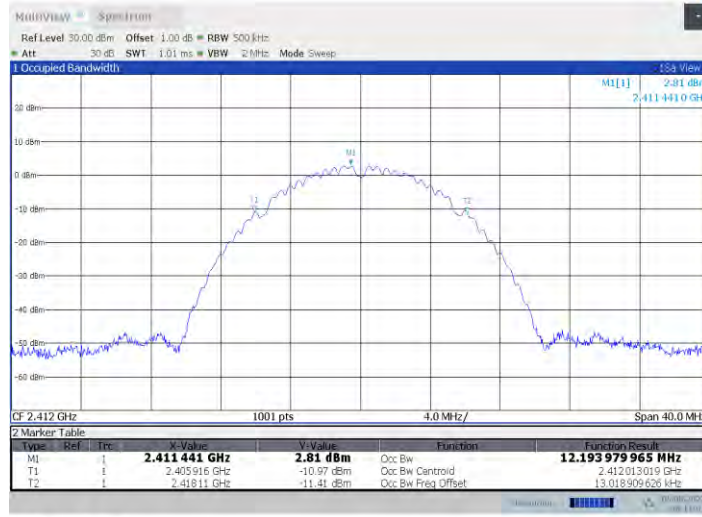
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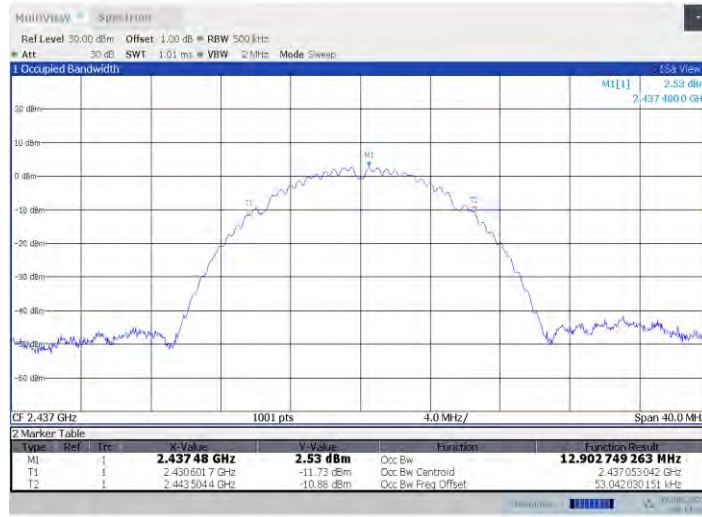
Test Graphs

11b Ant1 2412



06:11:07 05.08.2022

11b Ant1 2437



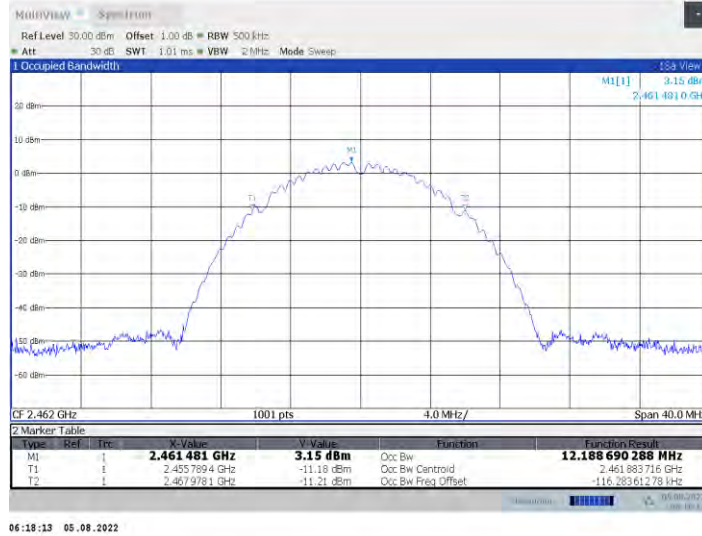
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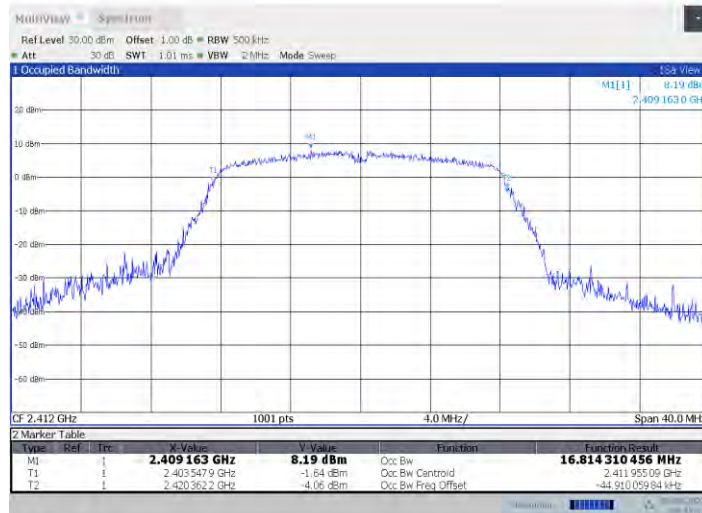
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11b Ant1 2462



06:18:13 05.08.2022

11g Ant1 2412



06:25:37 05.08.2022



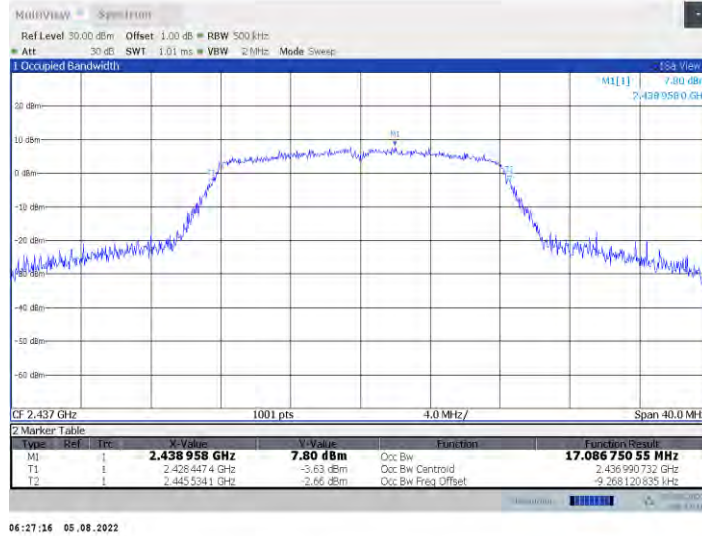
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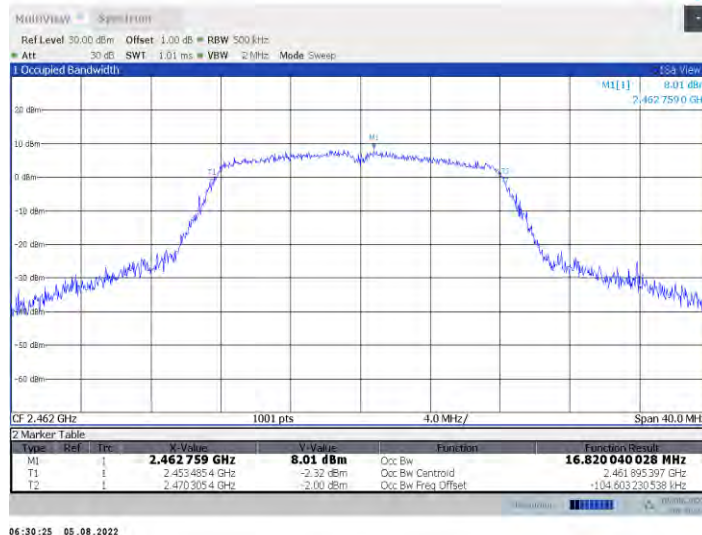
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11g Ant1 2437



06:27:16 05.08.2022

11g Ant1 2462



06:30:25 05.08.2022



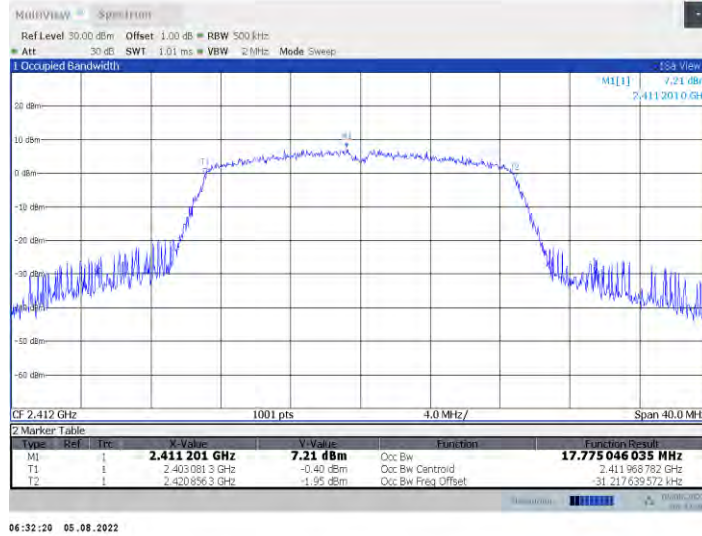
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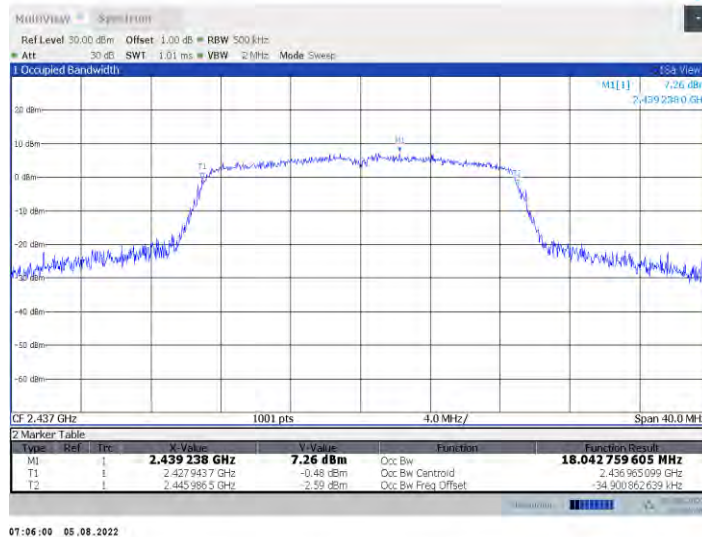
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11n20SISO_Ant1_2437

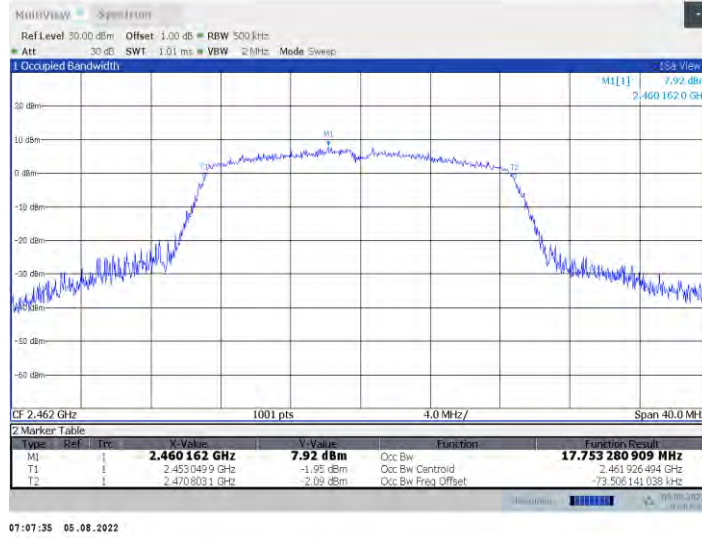


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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	12.82	≤30.00	PASS
		2437	12.90	≤30.00	PASS
		2462	12.70	≤30.00	PASS
11g	Ant1	2412	21.84	≤30.00	PASS
		2437	21.68	≤30.00	PASS
		2462	21.90	≤30.00	PASS
11n20SISO	Ant1	2412	21.10	≤30.00	PASS
		2437	21.03	≤30.00	PASS
		2462	21.19	≤30.00	PASS



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Report No.: SEWM2207000122RG04

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	Ant1	2412	-11.76	≤8.00	PASS
		2437	-11.82	≤8.00	PASS
		2462	-11.36	≤8.00	PASS
11g	Ant1	2412	-9.56	≤8.00	PASS
		2437	-10.77	≤8.00	PASS
		2462	-10.90	≤8.00	PASS
11n20SISO	Ant1	2412	-11.72	≤8.00	PASS
		2437	-10.84	≤8.00	PASS
		2462	-11.09	≤8.00	PASS



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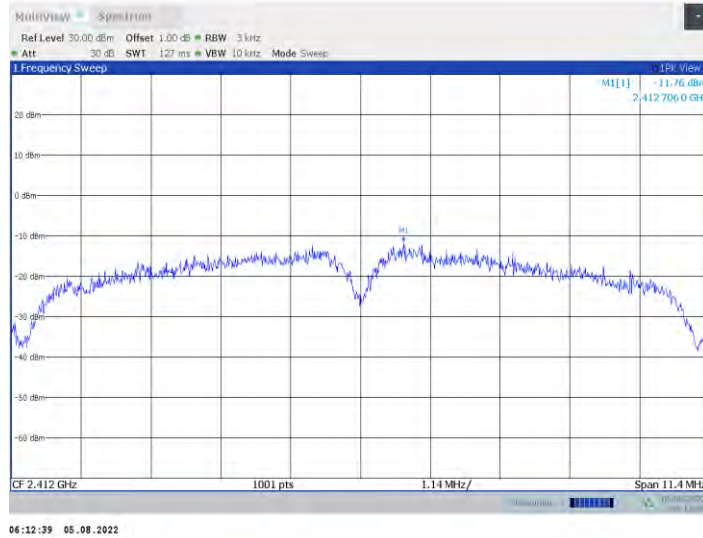
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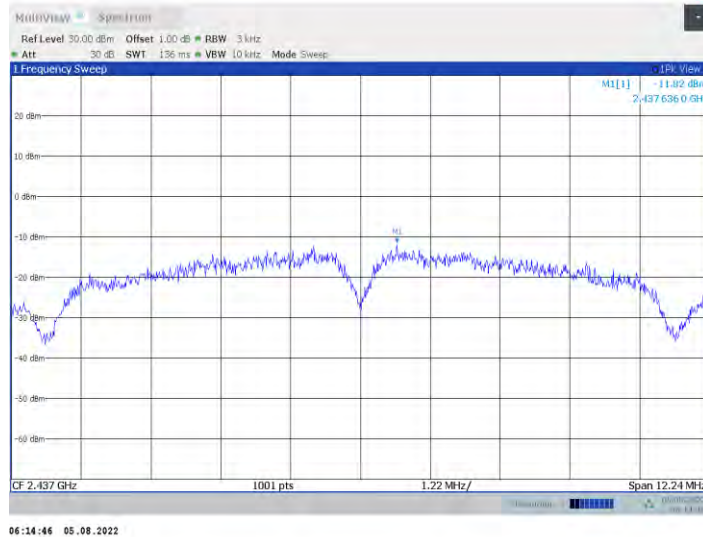
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Test Graphs

11b_Ant1_2412



11b_Ant1_2437

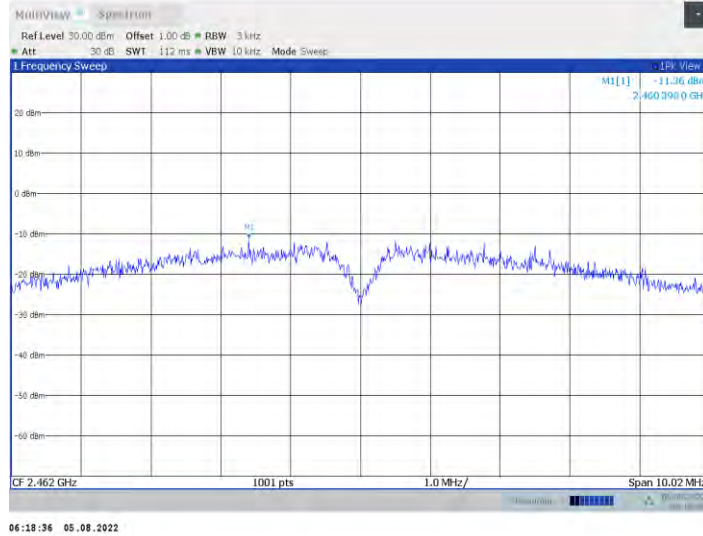


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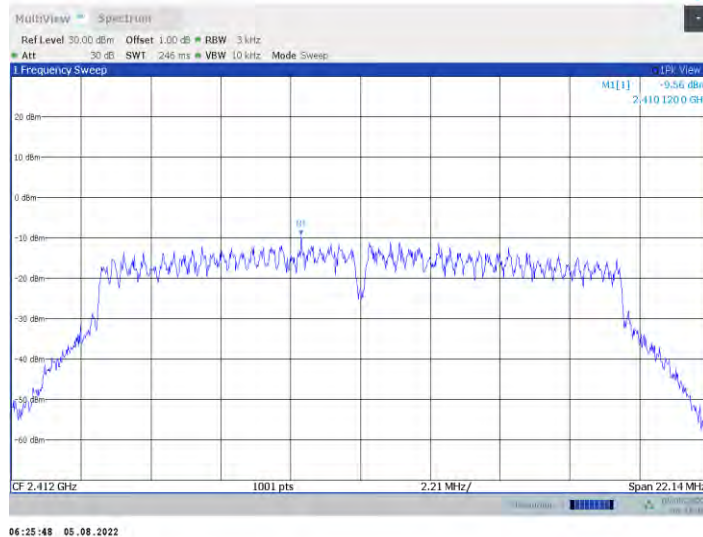
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11b Ant1 2462



11g Ant1 2412

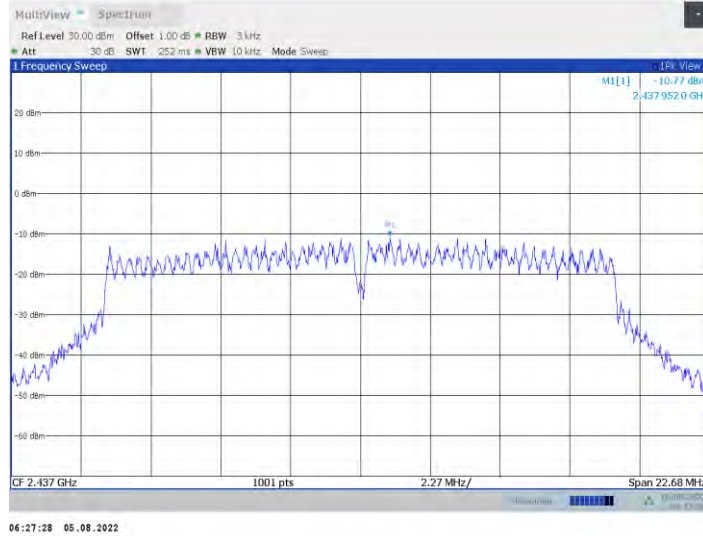


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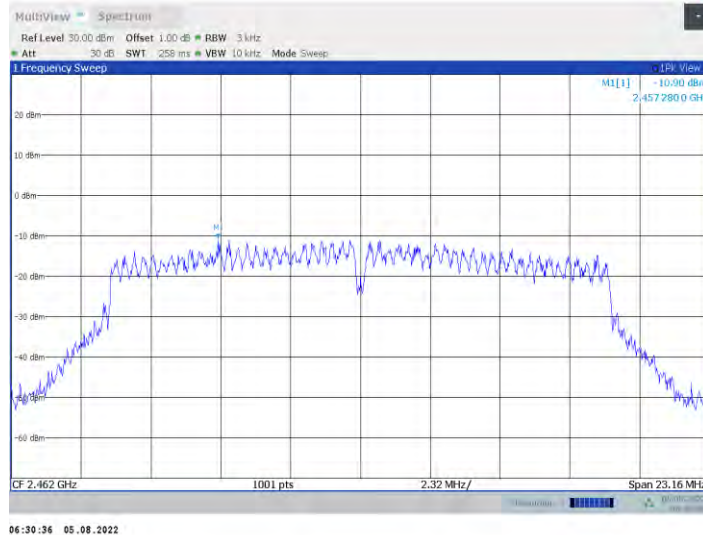
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11g Ant1_2437

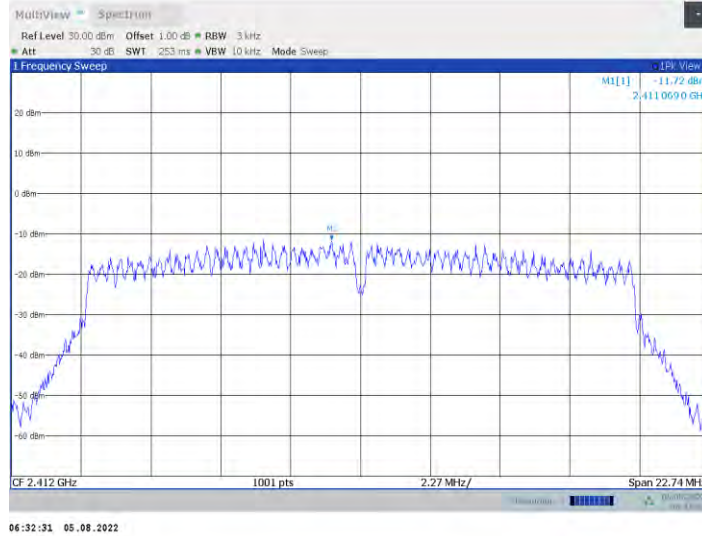


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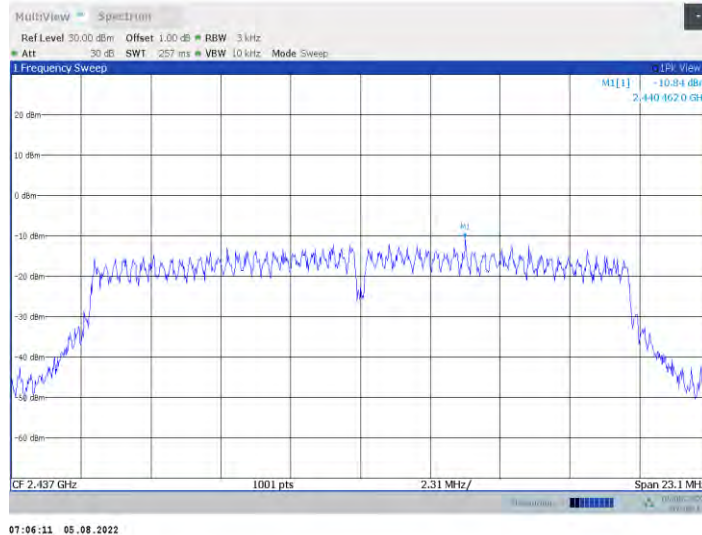


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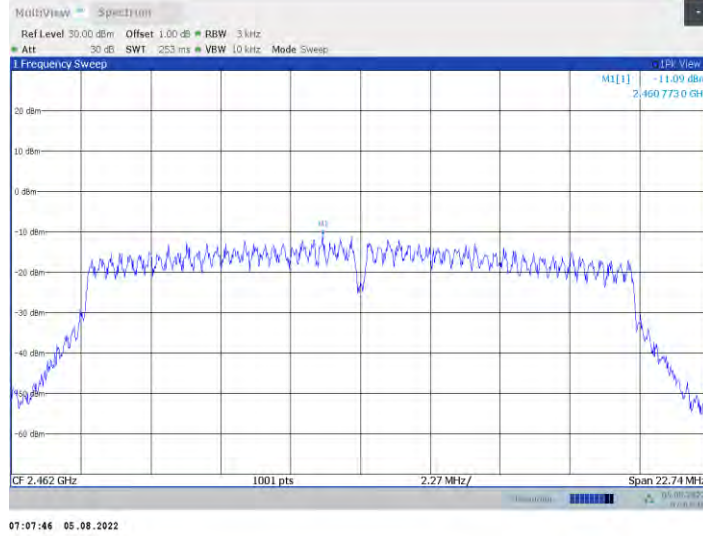


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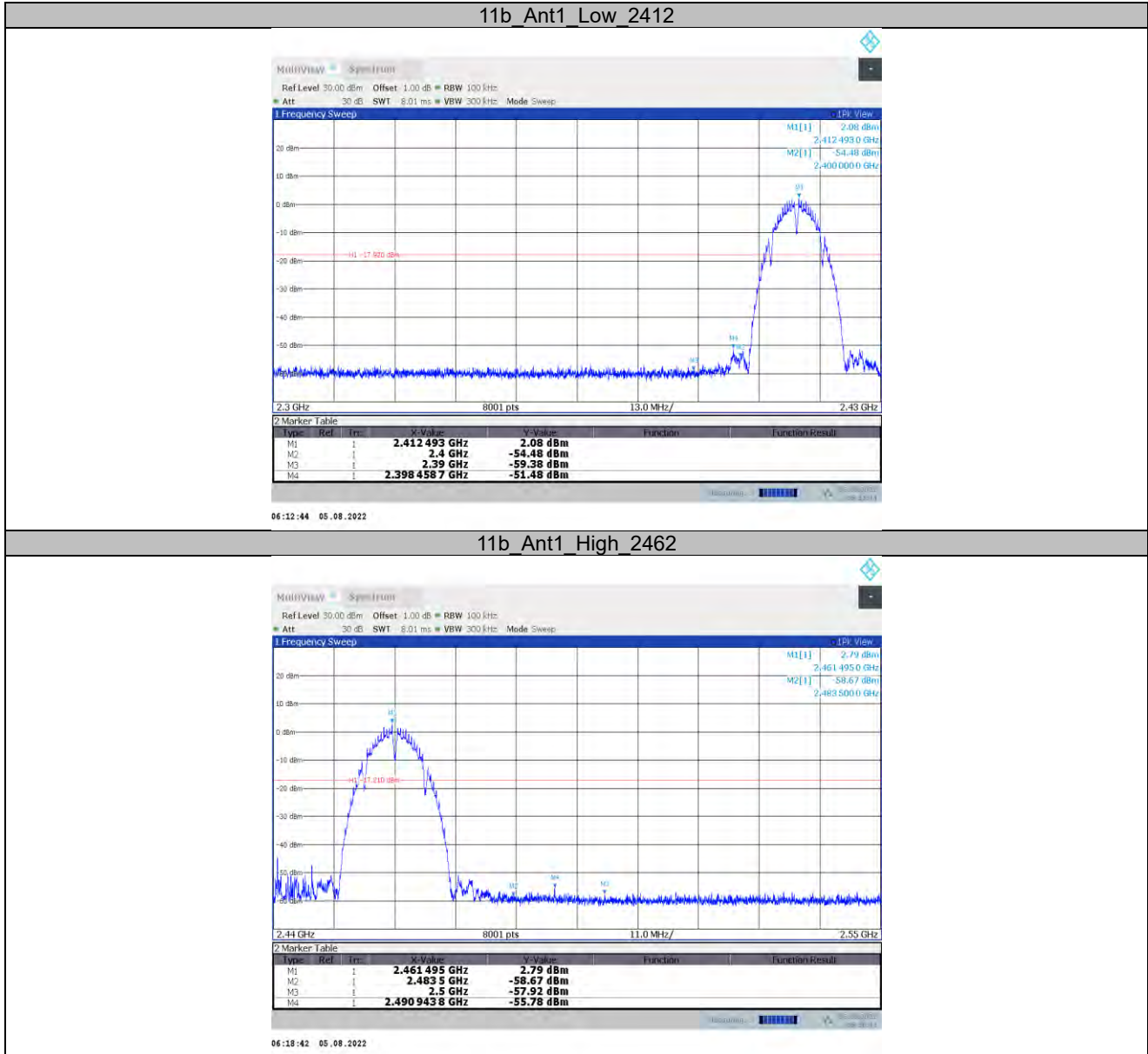
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Band edge measurements

Test Graphs

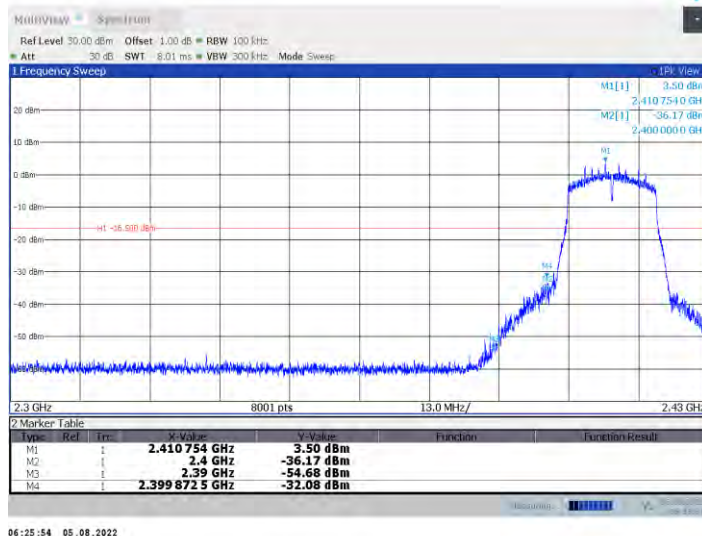


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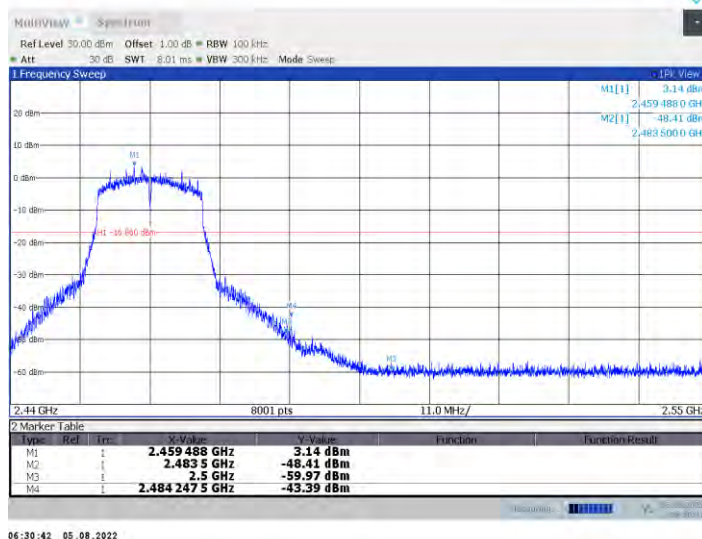
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11g Ant1 Low 2412



11g Ant1 High 2462

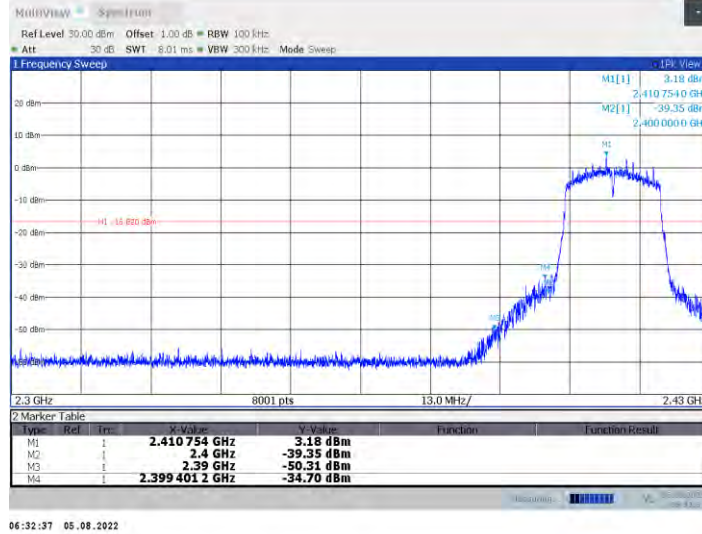


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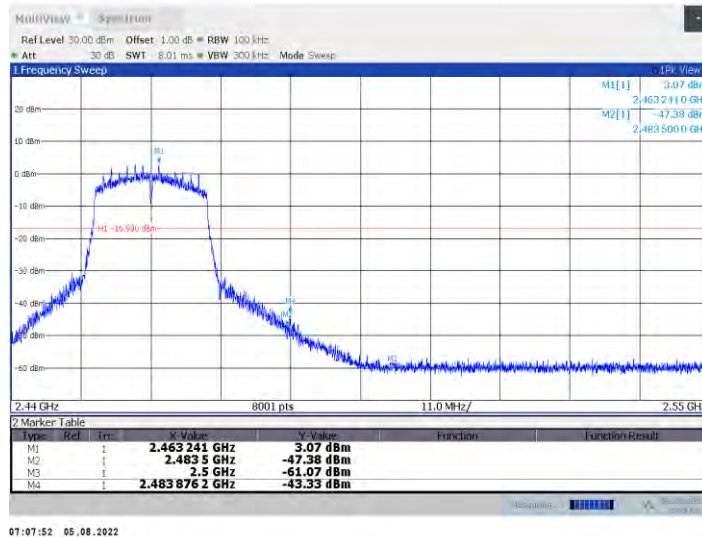
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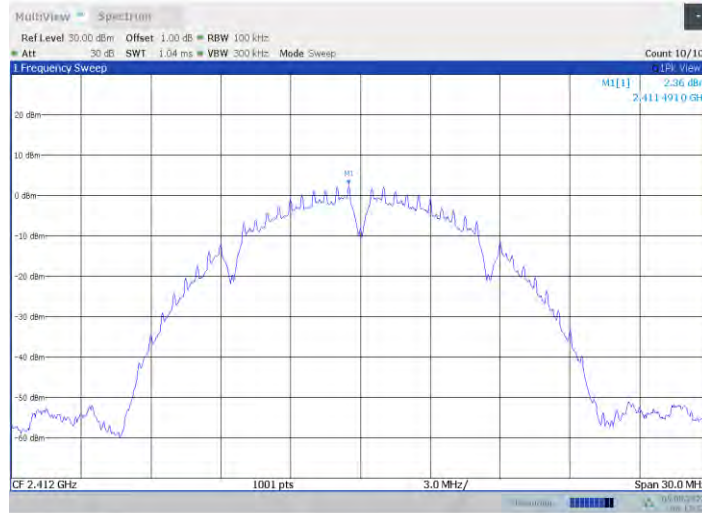
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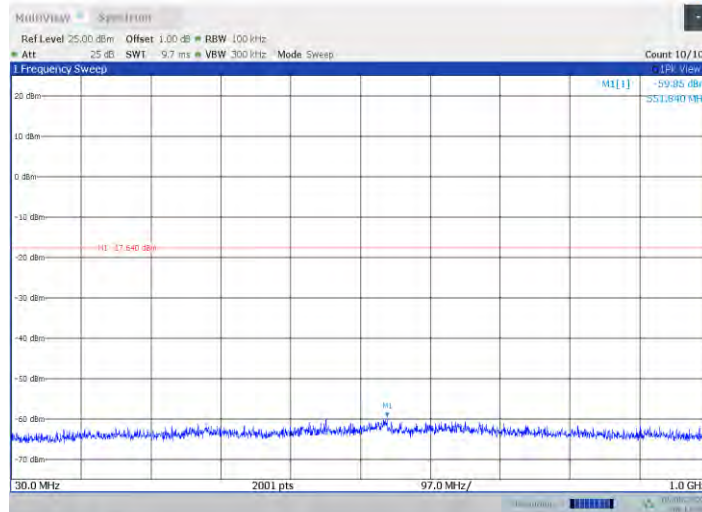
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Conducted Spurious Emission Test Graphs

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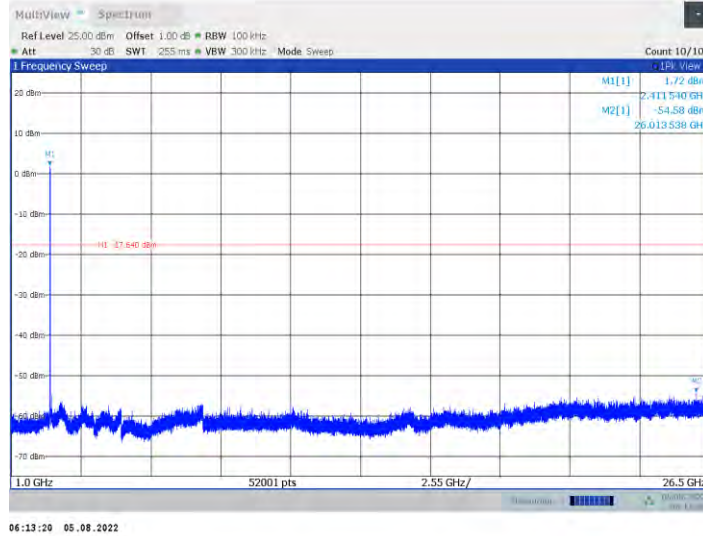


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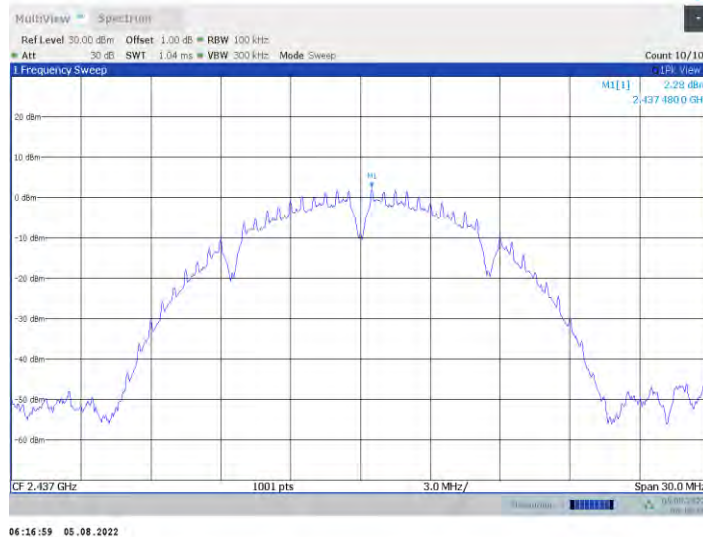


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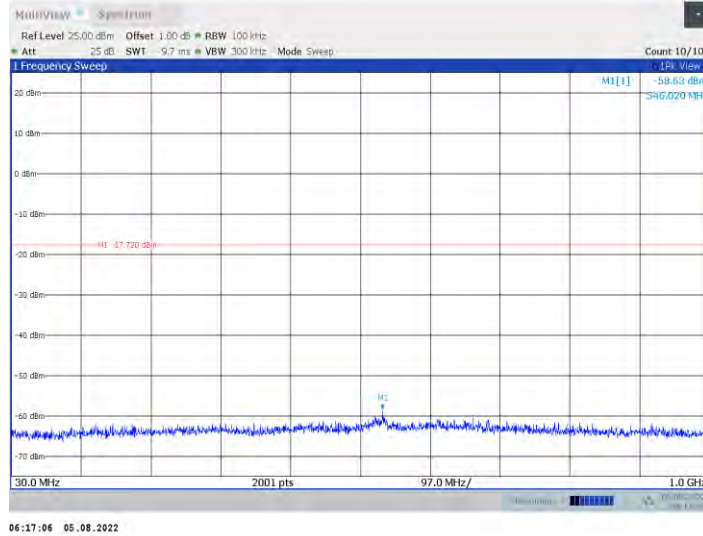


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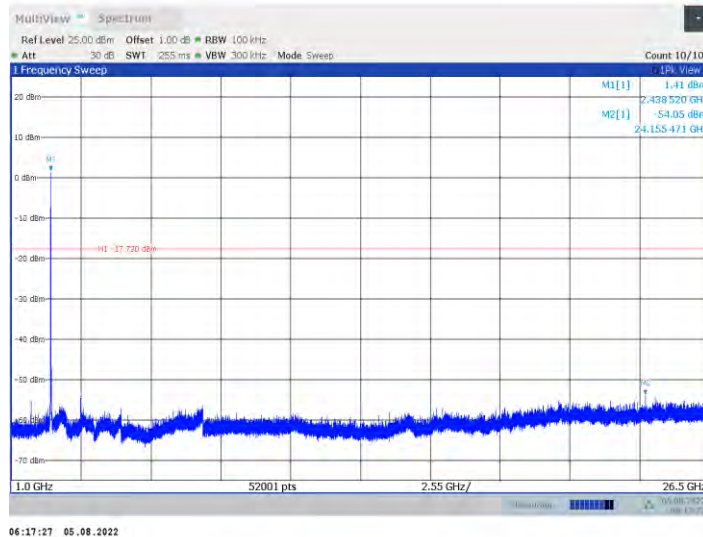
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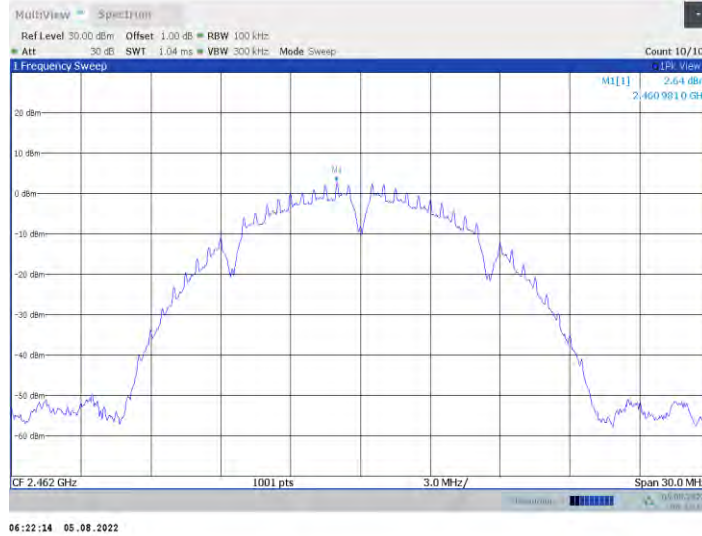


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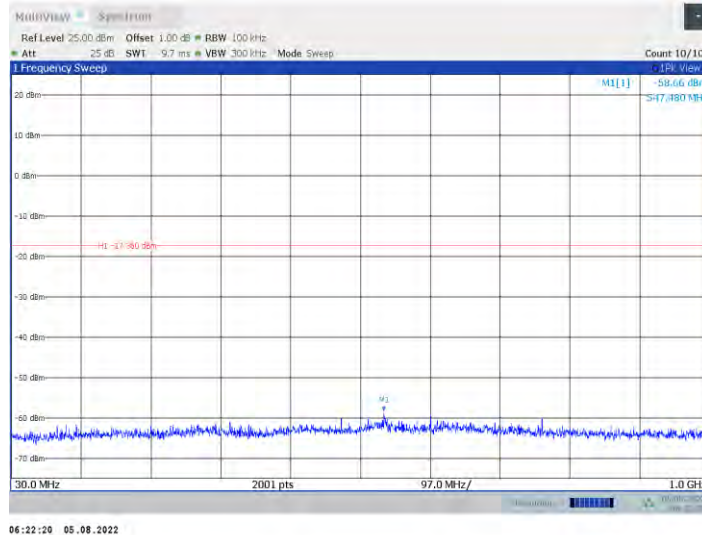
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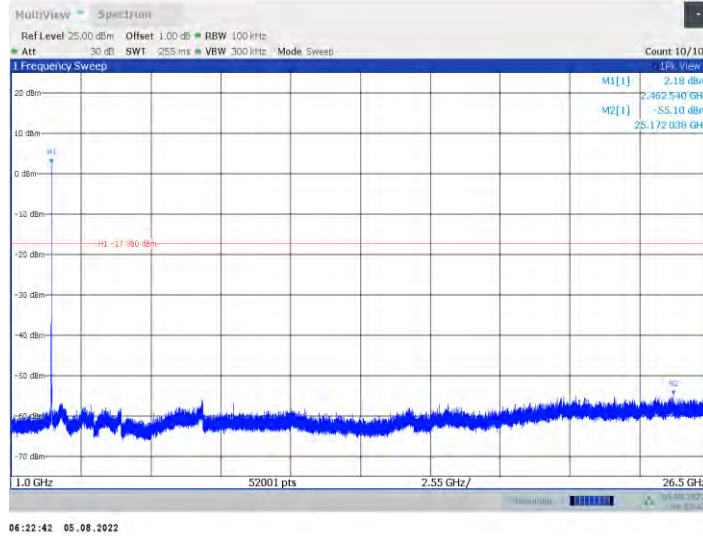


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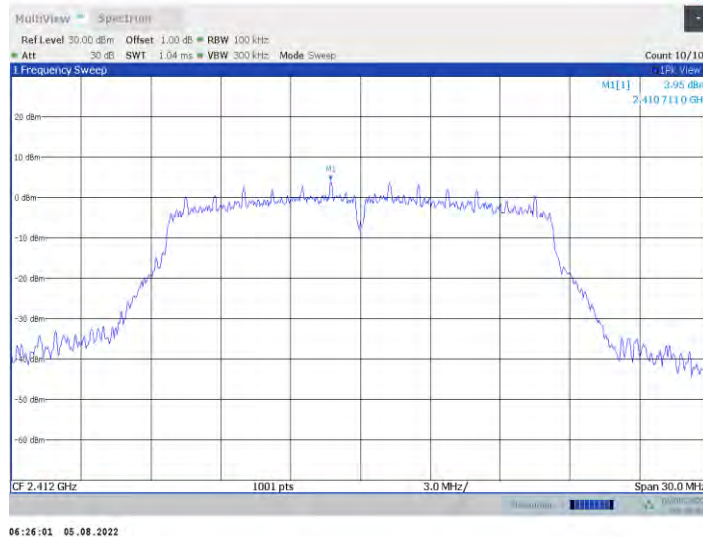
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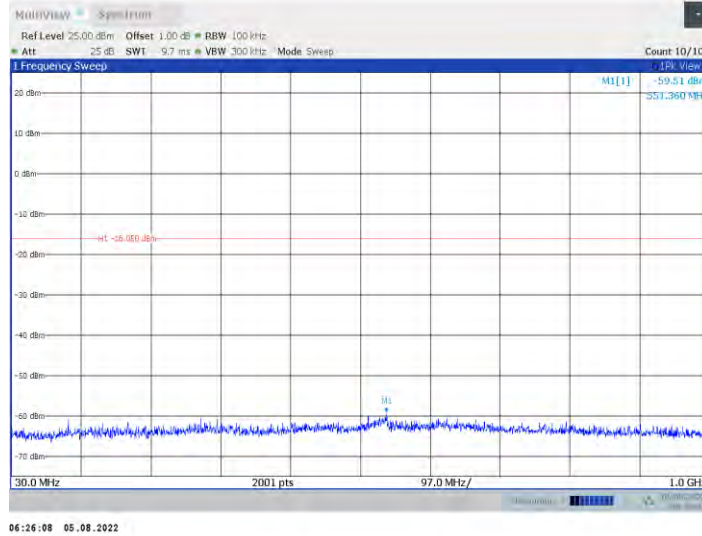


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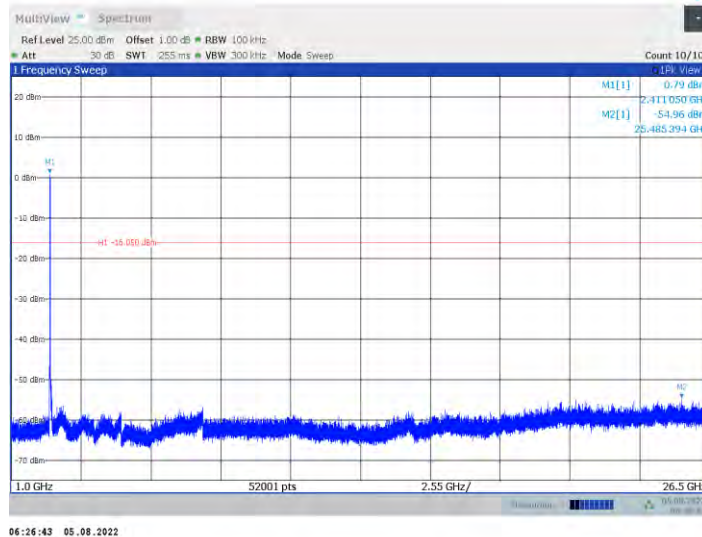
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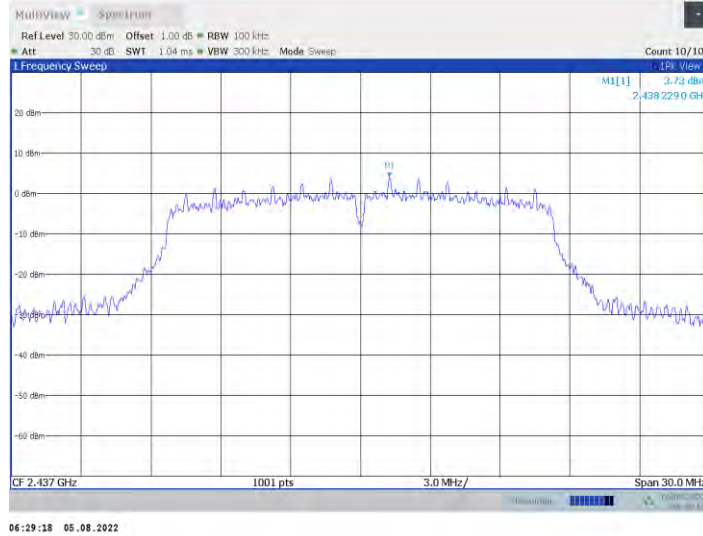


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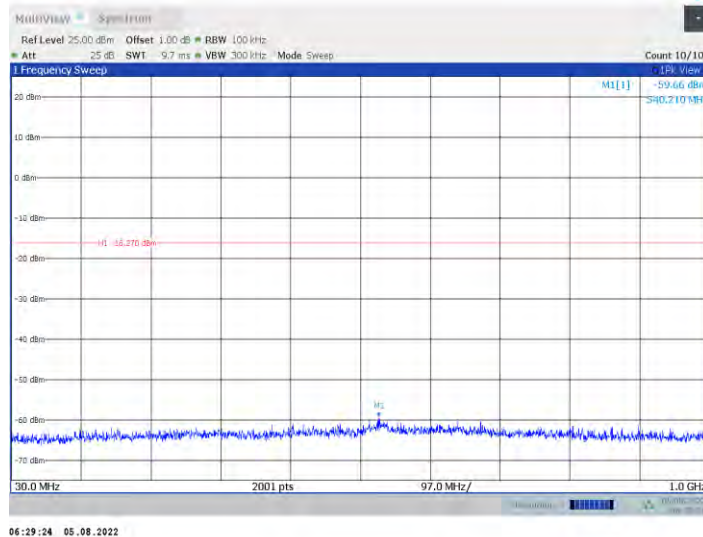
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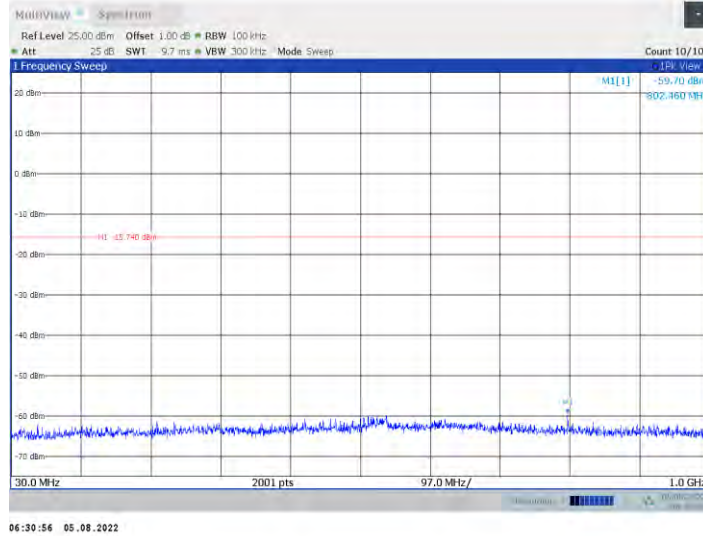


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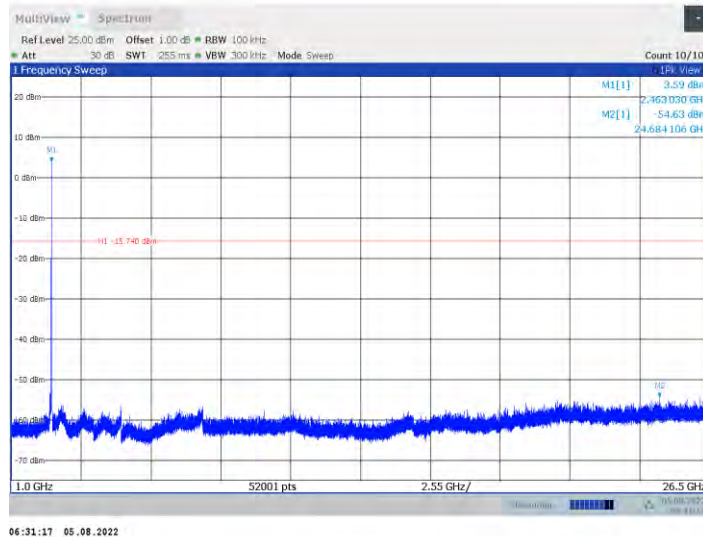
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11g_Ant1_2462_1000~26500



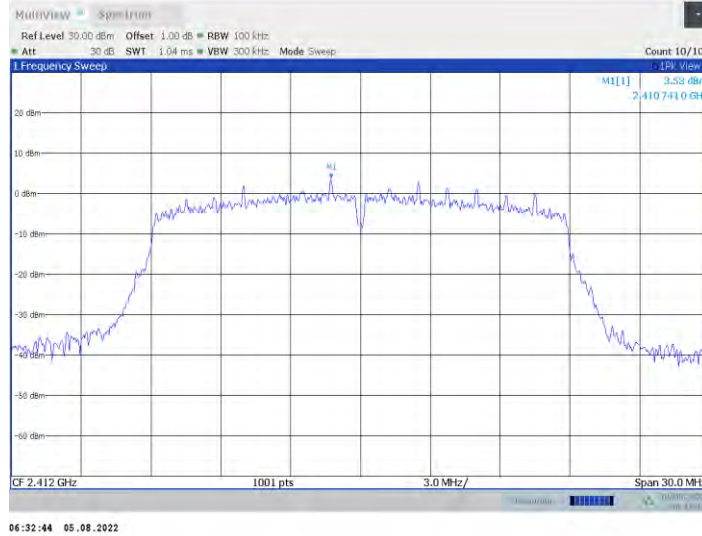
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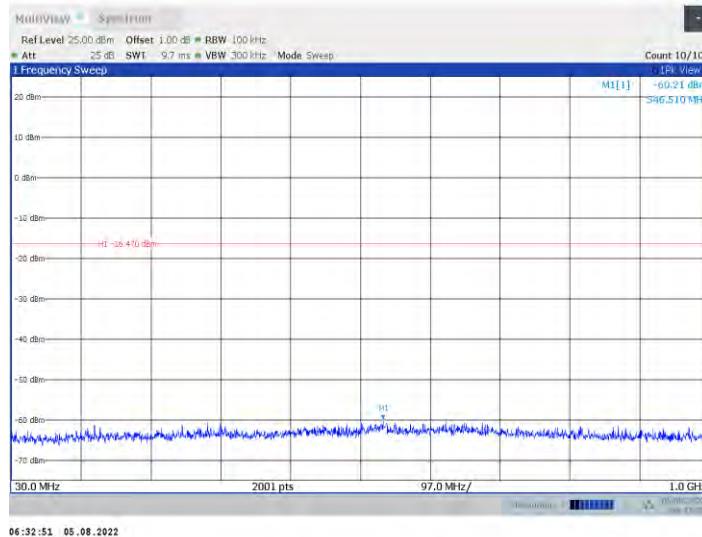
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11n20SISO_Ant1_2412_0~Reference



11n20SISO_Ant1_2412_30~1000



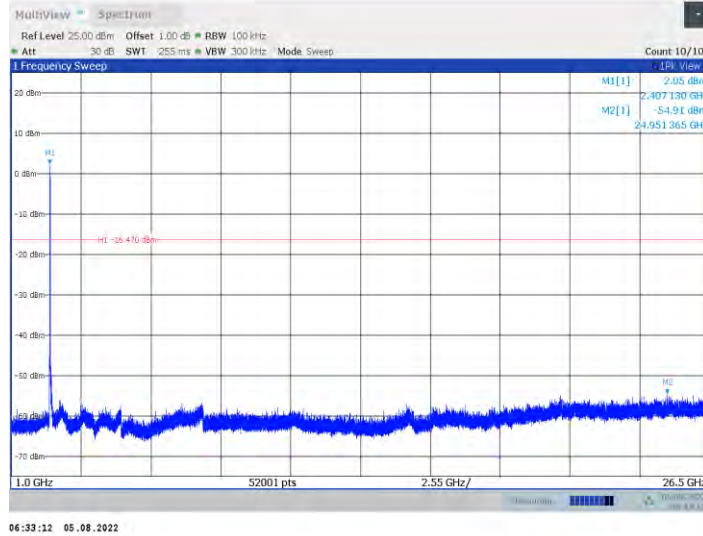
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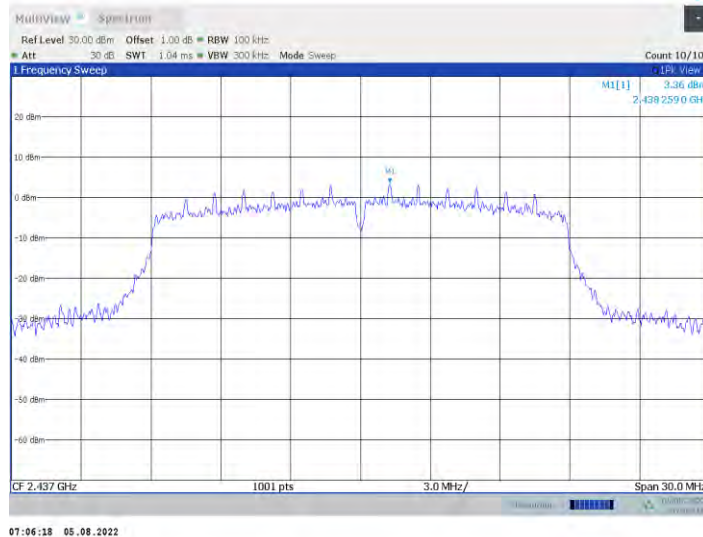
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11n20SISO_Ant1_2412_1000~26500



11n20SISO_Ant1_2437_0~Reference

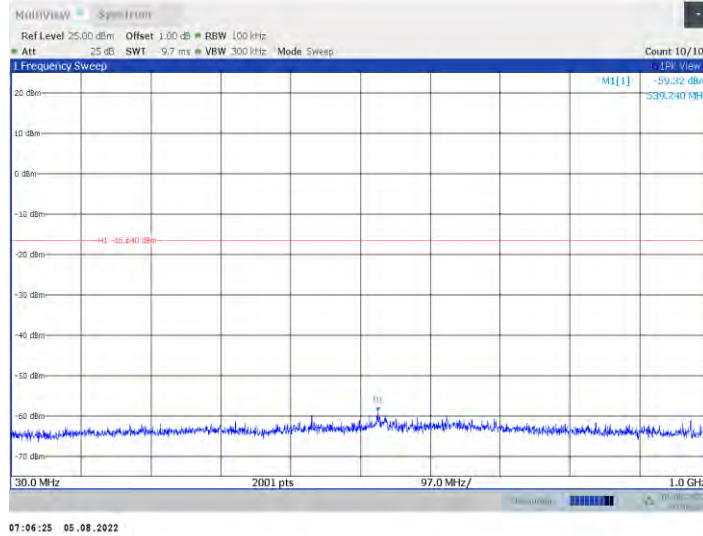


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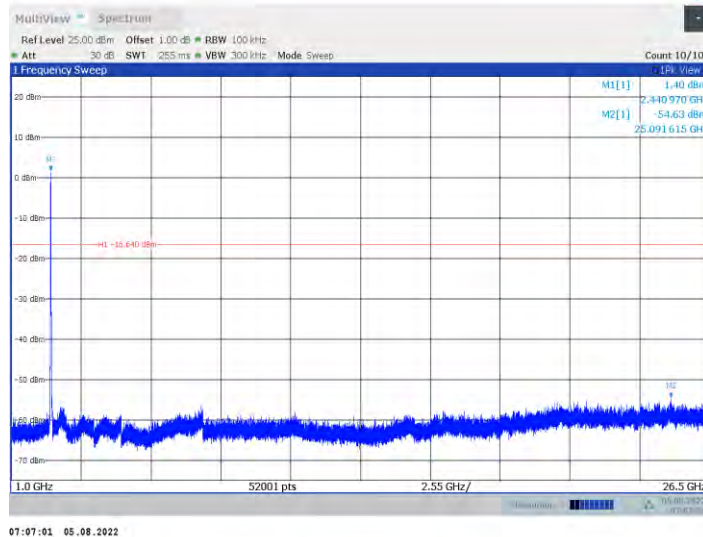
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11n20SISO Ant1 2437 30~1000



11n20SISO Ant1 2437 1000~26500



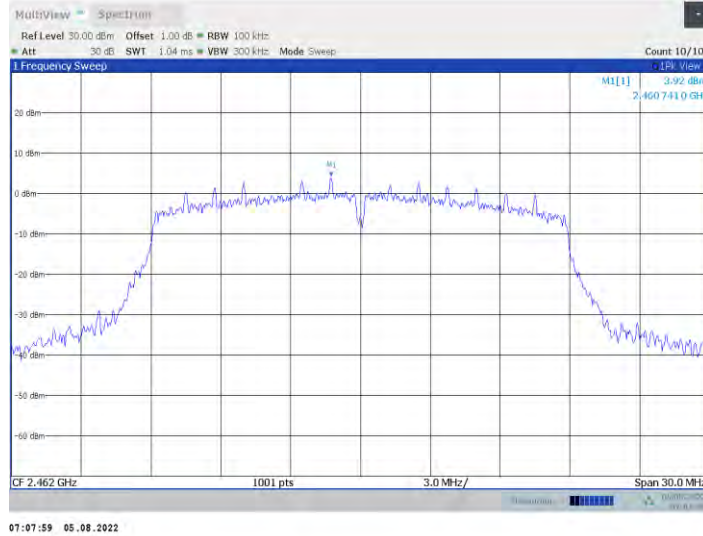
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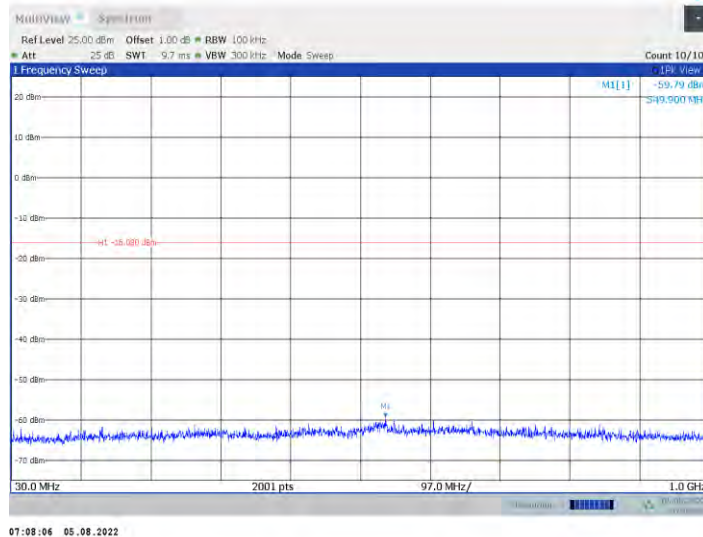
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11n20SISO_Ant1_2462_0~Reference



11n20SISO_Ant1_2462_30~1000

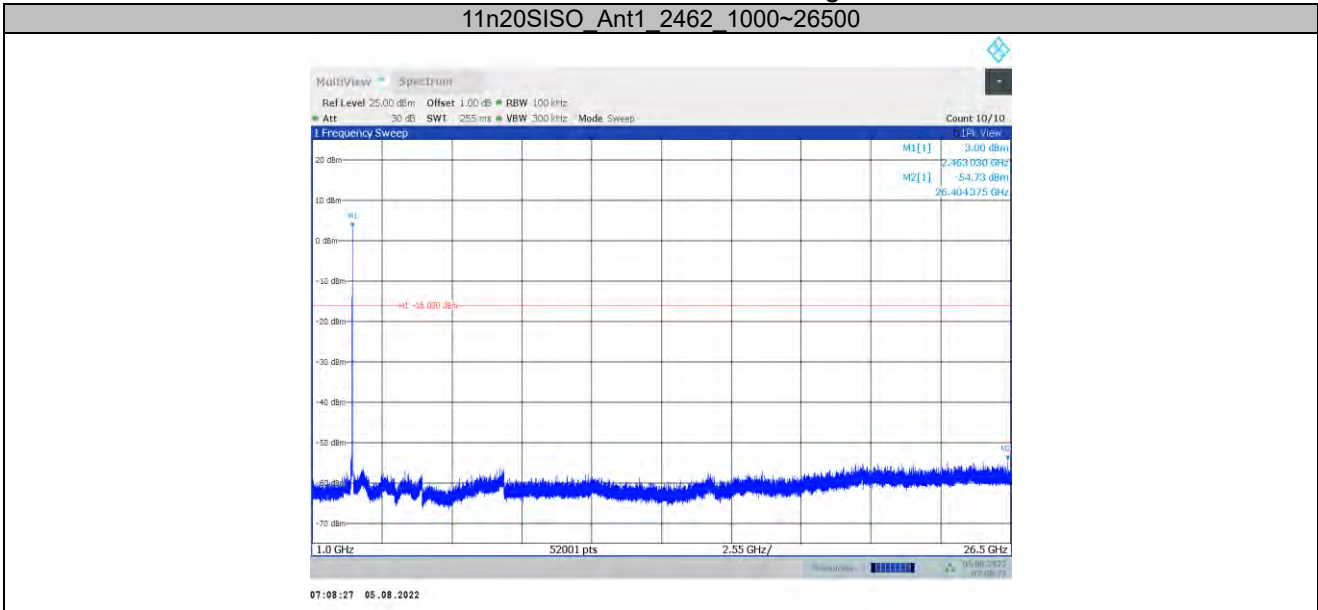


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Report No.: SEWM2207000122RG04

Rev.: 01

Page: 69 of 109

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	8.39	8.42	99.64
11g	Ant1	2412	1.39	1.43	97.20
11n20SISO	Ant1	2412	1.30	1.34	97.01



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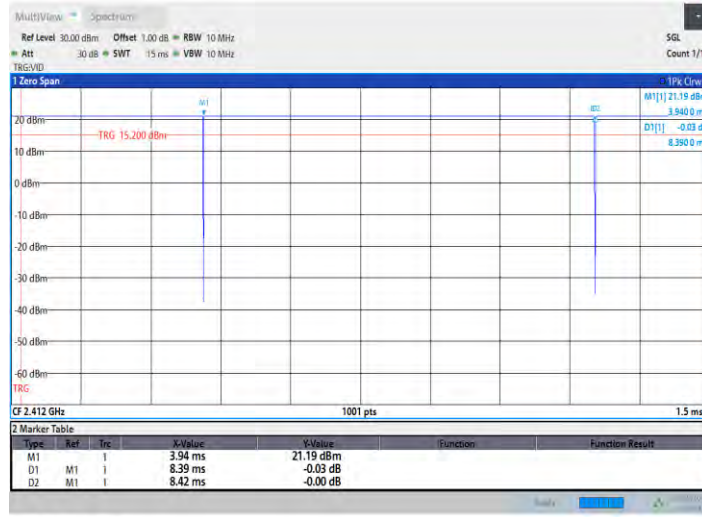
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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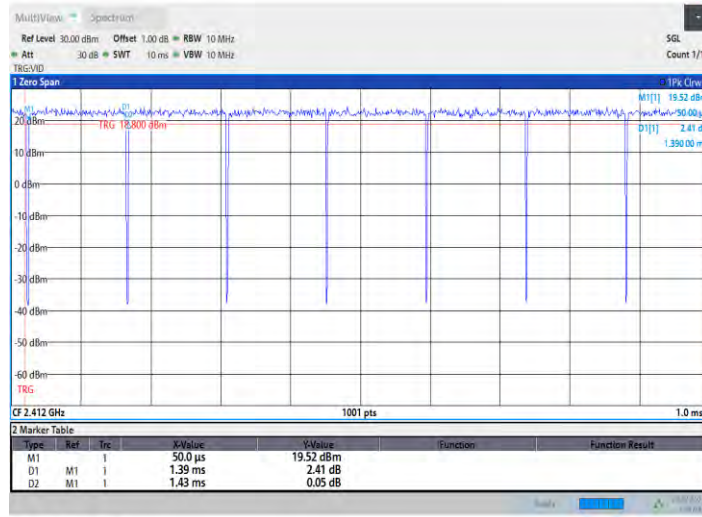
Test Graphs

11b Ant1 2412



15:25:43 29.07.2022

11g Ant1 2412



15:47:46 29.07.2022



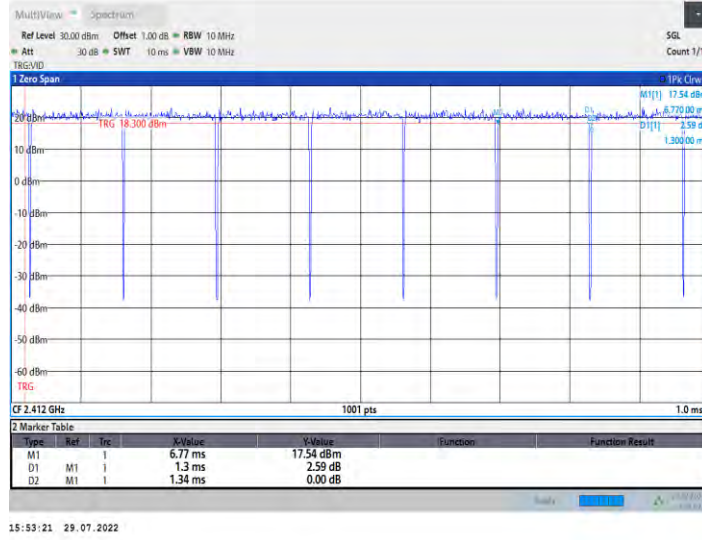
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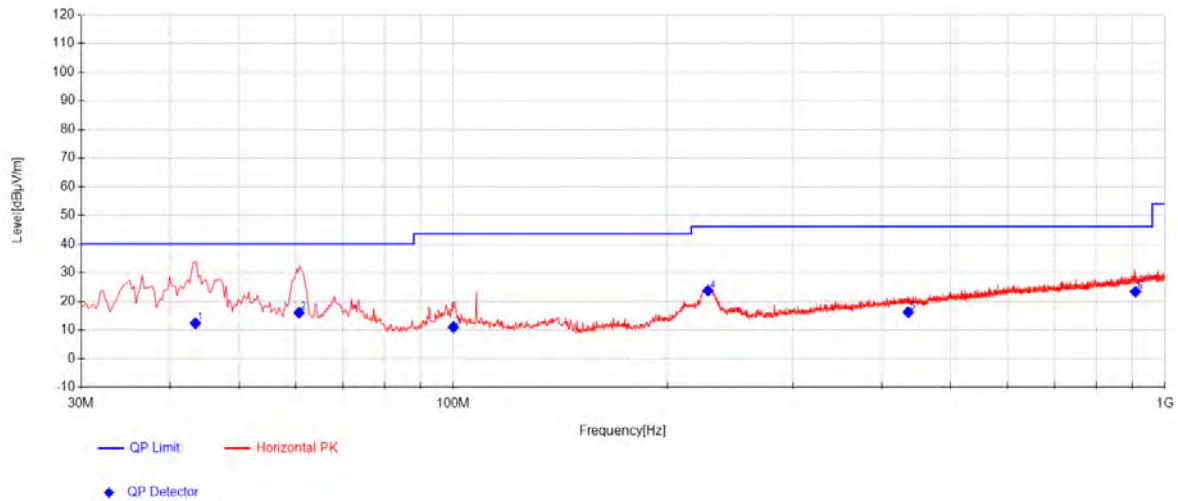
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Radiated Spurious Emissions

Radiated emission below 1GHz

For Sample #1:

Worst case Mode: 11b_Channel 01



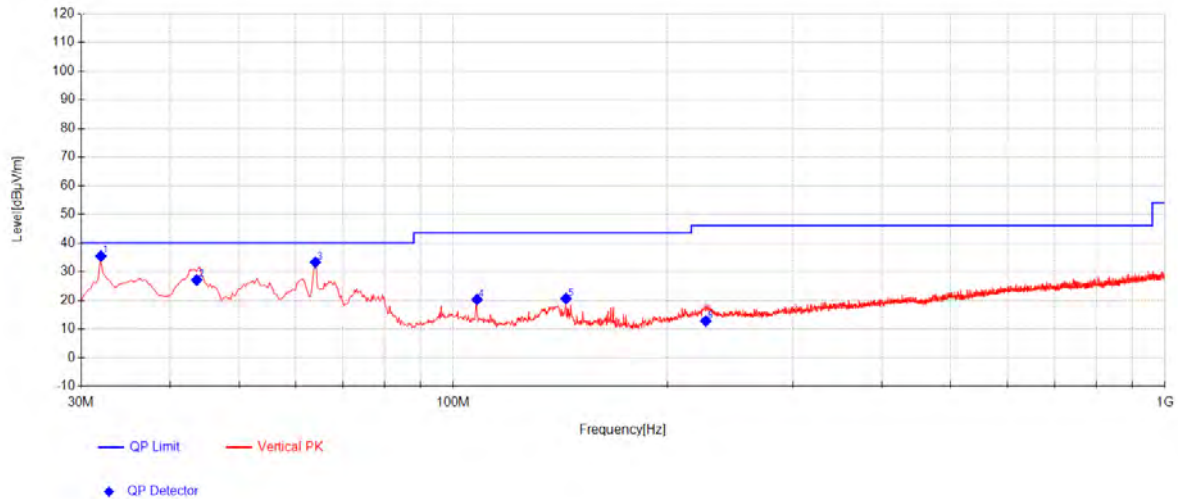
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.4134	27.59	-28.06	12.77	12.30	40.00	27.70	100	226	Horizontal
2	60.7236	32.49	-27.64	11.18	16.03	40.00	23.97	106	6	Horizontal
3	100.0230	27.55	-27.36	10.80	10.99	43.50	32.51	116	298	Horizontal
4	227.9751	38.46	-26.51	11.73	23.68	46.00	22.32	120	66	Horizontal
5	435.7367	25.16	-25.00	16.04	16.20	46.00	29.80	110	114	Horizontal
6	908.6323	24.57	-23.11	21.90	23.36	46.00	22.64	106	307	Horizontal



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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9853	53.43	-28.48	10.46	35.41	40.00	4.59	120	0	Vertical
2	43.6037	42.25	-28.05	12.86	27.06	40.00	12.94	100	323	Vertical
3	64.0046	50.62	-27.67	10.33	33.28	40.00	6.72	196	356	Vertical
4	108.0064	36.95	-27.41	10.72	20.26	43.50	23.24	220	178	Vertical
5	144.0125	40.54	-27.29	7.34	20.59	43.50	22.91	112	346	Vertical
6	226.3573	27.53	-26.48	11.71	12.76	46.00	33.24	100	129	Vertical

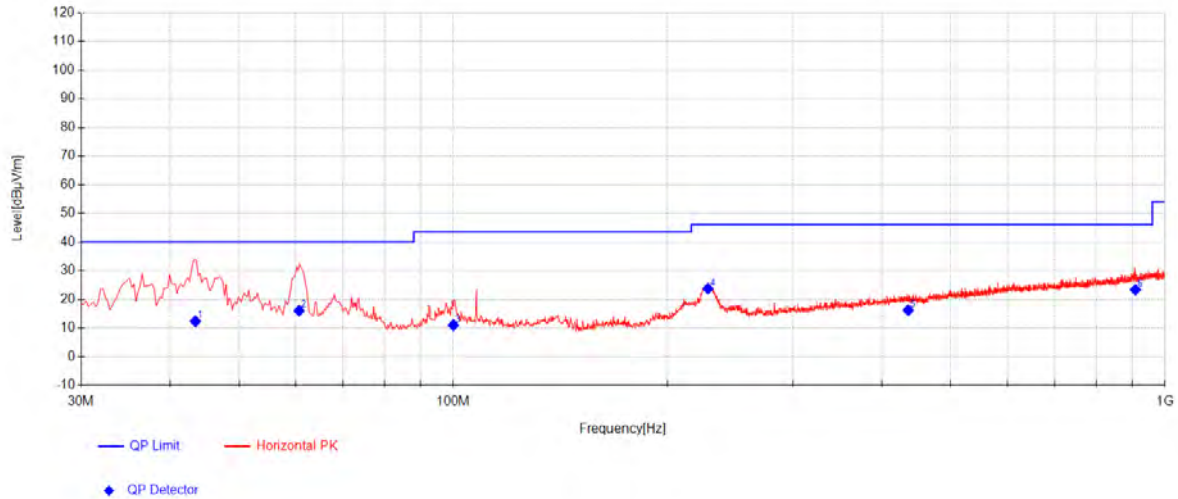


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For Sample #2:

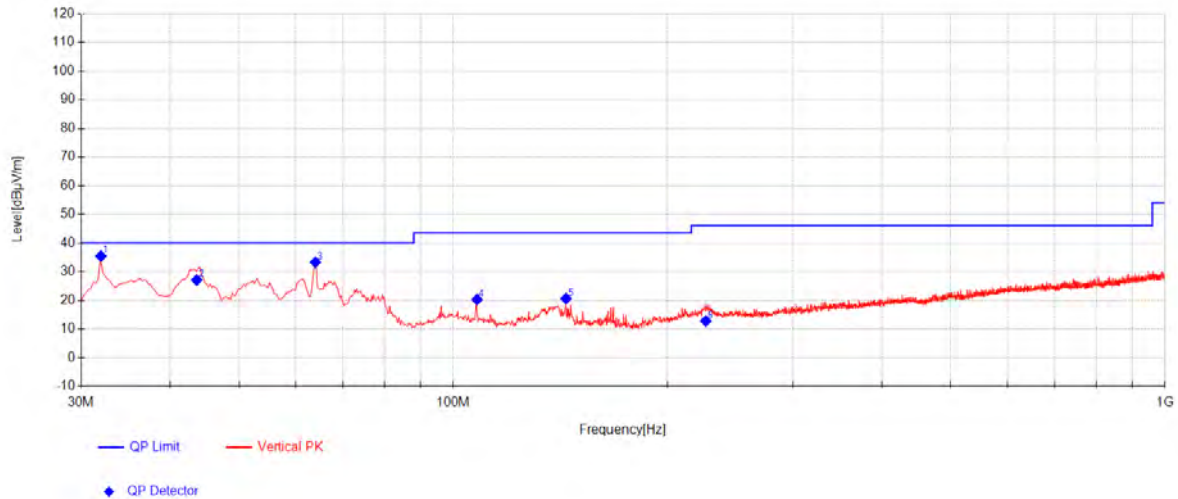
Worst case Mode: 11b_Channel 01



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.4134	27.59	-28.06	12.77	12.30	40.00	27.70	100	226	Horizontal
2	60.7236	32.49	-27.64	11.18	16.03	40.00	23.97	106	6	Horizontal
3	100.0230	27.55	-27.36	10.80	10.99	43.50	32.51	116	298	Horizontal
4	227.9751	38.46	-26.51	11.73	23.68	46.00	22.32	120	66	Horizontal
5	435.7367	25.16	-25.00	16.04	16.20	46.00	29.80	110	114	Horizontal
6	908.6323	24.57	-23.11	21.90	23.36	46.00	22.64	106	307	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9853	53.43	-28.48	10.46	35.41	40.00	4.59	120	0	Vertical
2	43.6037	42.25	-28.05	12.86	27.06	40.00	12.94	100	323	Vertical
3	64.0046	50.62	-27.67	10.33	33.28	40.00	6.72	196	356	Vertical
4	108.0064	36.95	-27.41	10.72	20.26	43.50	23.24	220	178	Vertical
5	144.0125	40.54	-27.29	7.34	20.59	43.50	22.91	112	346	Vertical
6	226.3573	27.53	-26.48	11.71	12.76	46.00	33.24	100	129	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:
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.

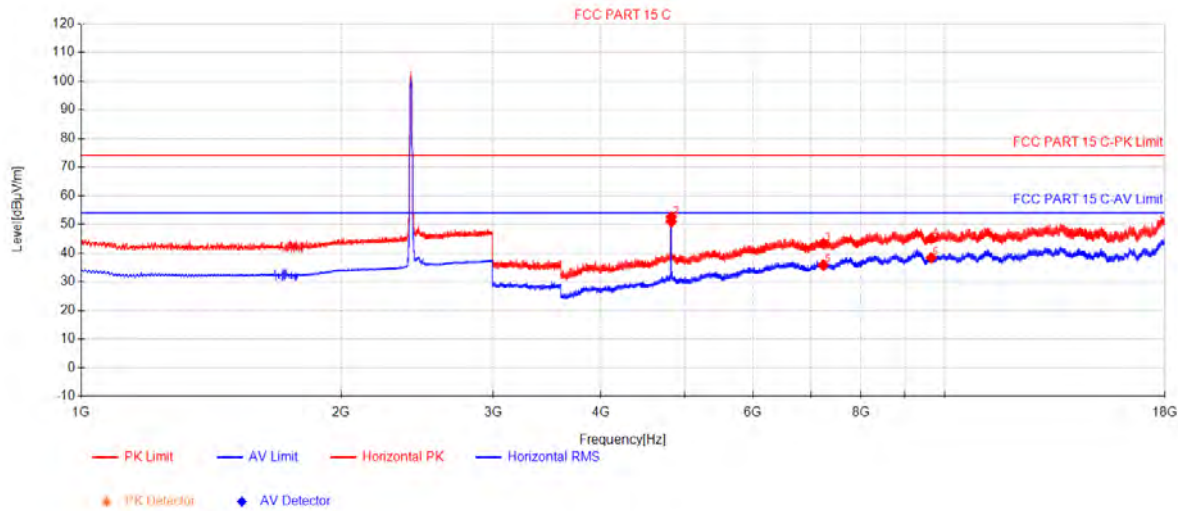


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Transmitter emission Above 1GHz

For Sample #1:

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	4824.5	63.31	32.18	-44.55	50.94	54.00	3.06	163	170	Horizontal
2	4824	64.88	32.18	-44.55	52.51	74.00	21.49	251	203	Horizontal
3	7236	49.01	36.34	-42.08	43.27	74.00	30.73	142	107	Horizontal
4	9648	44.35	38.54	-37.82	45.06	74.00	28.94	268	154	Horizontal
5	7236	41.50	36.34	-42.08	35.76	54.00	18.24	233	106	Horizontal
6	9648	37.60	38.54	-37.82	38.31	54.00	15.69	274	196	Horizontal

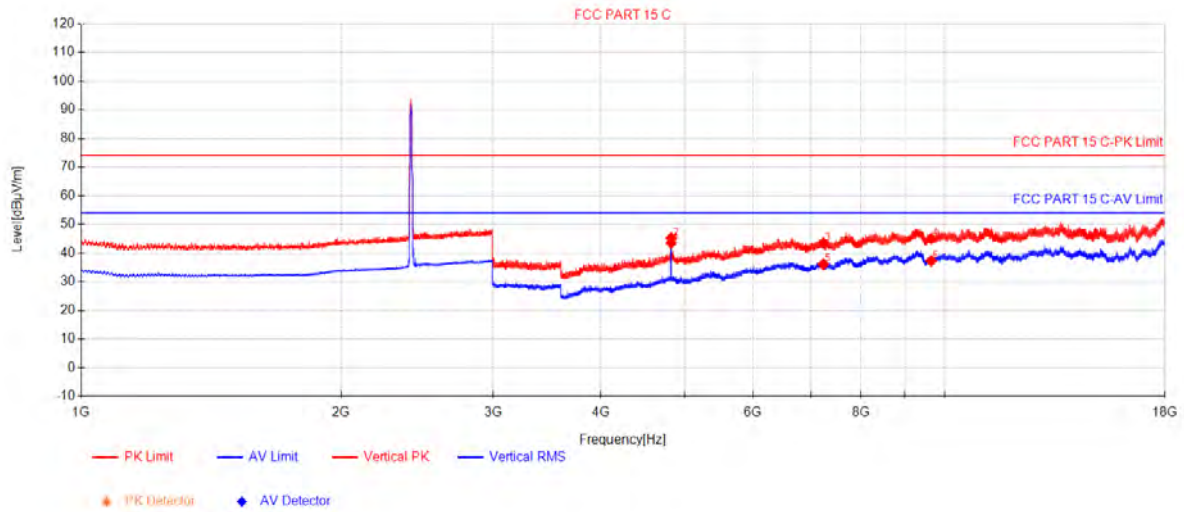


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802.11b_Channel 01



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	4824.5	55.85	32.18	-44.55	43.48	54.00	10.52	142	26	Vertical
2	4824	57.61	32.18	-44.55	45.24	74.00	28.76	285	26	Vertical
3	7236	49.19	36.34	-42.08	43.45	74.00	30.55	263	52	Vertical
4	9648	44.29	38.54	-37.82	45.00	74.00	29.00	265	226	Vertical
5	7236	41.76	36.34	-42.08	36.02	54.00	17.98	241	232	Vertical
6	9648	36.52	38.54	-37.82	37.23	54.00	16.77	178	32	Vertical

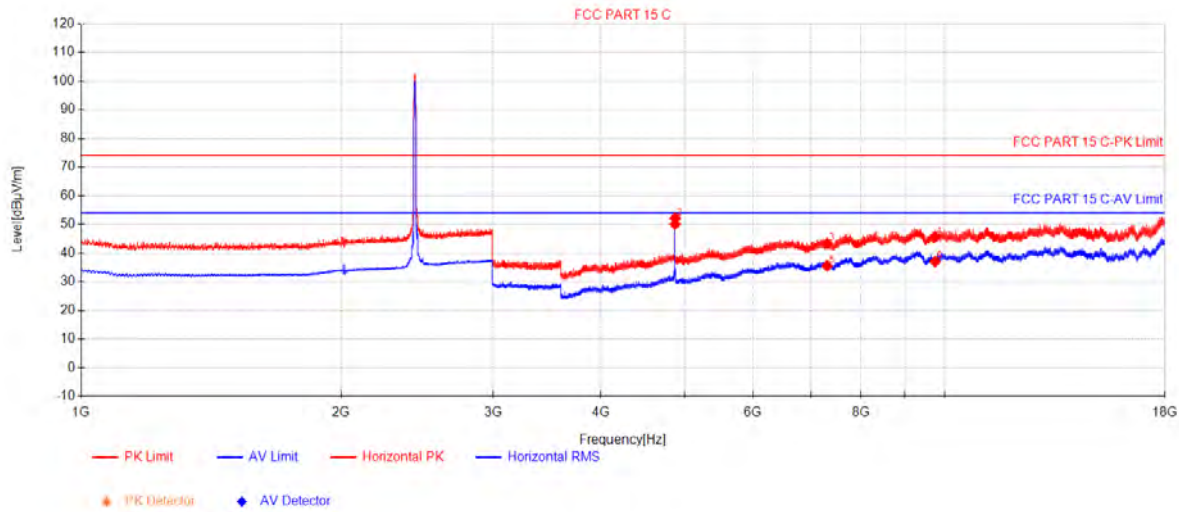


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802.11b_Channel 06



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	4874.5	62.53	32.30	-44.77	50.06	54.00	3.94	163	179	Horizontal
2	4874	64.54	32.30	-44.77	52.07	74.00	21.93	251	181	Horizontal
3	7311	48.76	36.39	-41.78	43.36	74.00	30.64	142	3	Horizontal
4	9748	44.73	38.53	-37.51	45.74	74.00	28.26	284	286	Horizontal
5	7311	40.91	36.39	-41.78	35.51	54.00	18.49	176	103	Horizontal
6	9748	35.97	38.53	-37.51	36.98	54.00	17.02	265	233	Horizontal

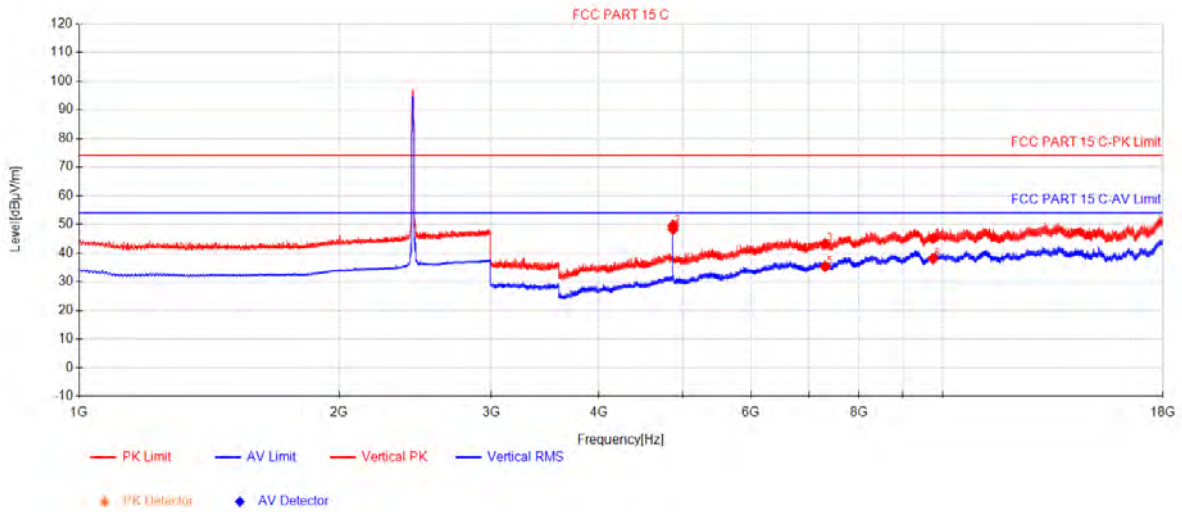


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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.5	60.76	32.30	-44.77	48.29	54.00	5.71	142	282	Vertical
2	4874	62.06	32.30	-44.77	49.59	74.00	24.41	285	282	Vertical
3	7311	48.64	36.39	-41.78	43.24	74.00	30.76	263	257	Vertical
4	9748	44.06	38.53	-37.51	45.07	74.00	28.93	265	360	Vertical
5	7311	40.65	36.39	-41.78	35.25	54.00	18.75	241	330	Vertical
6	9748	37.06	38.53	-37.51	38.07	54.00	15.93	178	51	Vertical

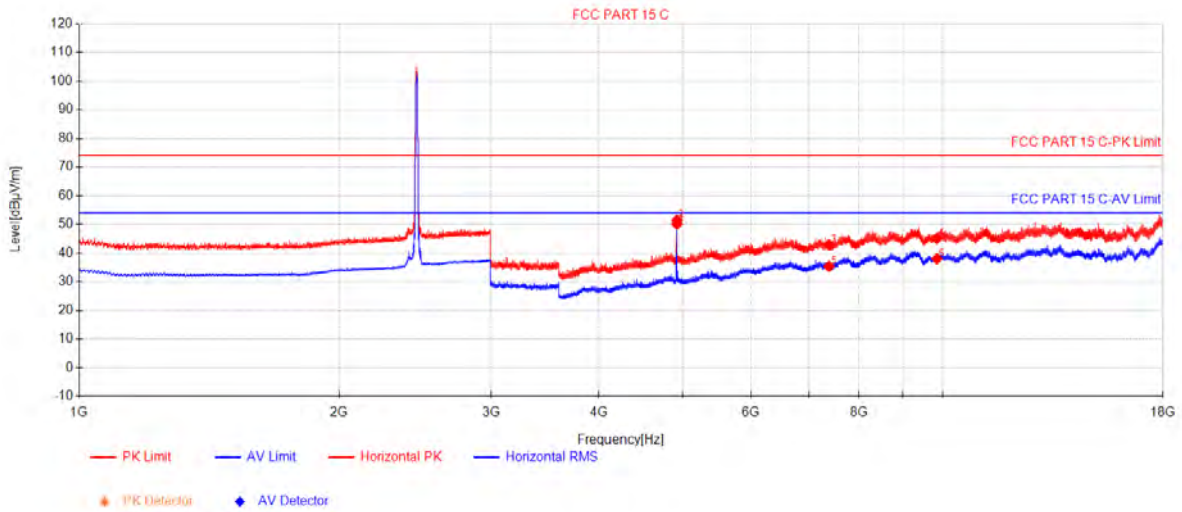


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802.11b_Channel 11



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	4924.5	62.57	32.42	-44.89	50.09	54.00	3.91	142	181	Horizontal
2	4924	63.86	32.42	-44.89	51.38	74.00	22.62	285	181	Horizontal
3	7386	48.39	36.43	-41.95	42.87	74.00	31.13	263	236	Horizontal
4	9848	43.86	38.52	-37.38	45.00	74.00	29.00	265	53	Horizontal
5	7386	40.81	36.43	-41.95	35.29	54.00	18.71	241	130	Horizontal
6	9848	36.83	38.52	-37.38	37.97	54.00	16.03	196	181	Horizontal

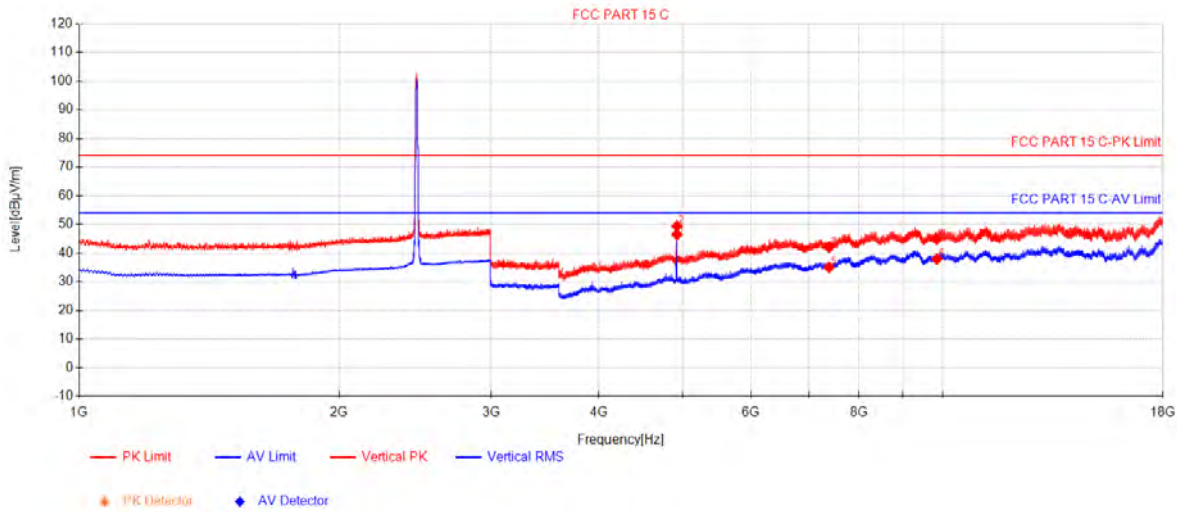


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802.11b_Channel 11



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	4924.5	58.92	32.42	-44.89	46.44	54.00	7.56	142	332	Vertical
2	4924	61.82	32.42	-44.89	49.34	74.00	24.66	285	306	Vertical
3	7386	47.54	36.43	-41.95	42.02	74.00	31.98	263	26	Vertical
4	9848	43.65	38.52	-37.38	44.79	74.00	29.21	265	101	Vertical
5	7386	40.51	36.43	-41.95	34.99	54.00	19.01	241	0	Vertical
6	9848	36.74	38.52	-37.38	37.88	54.00	16.12	196	203	Vertical

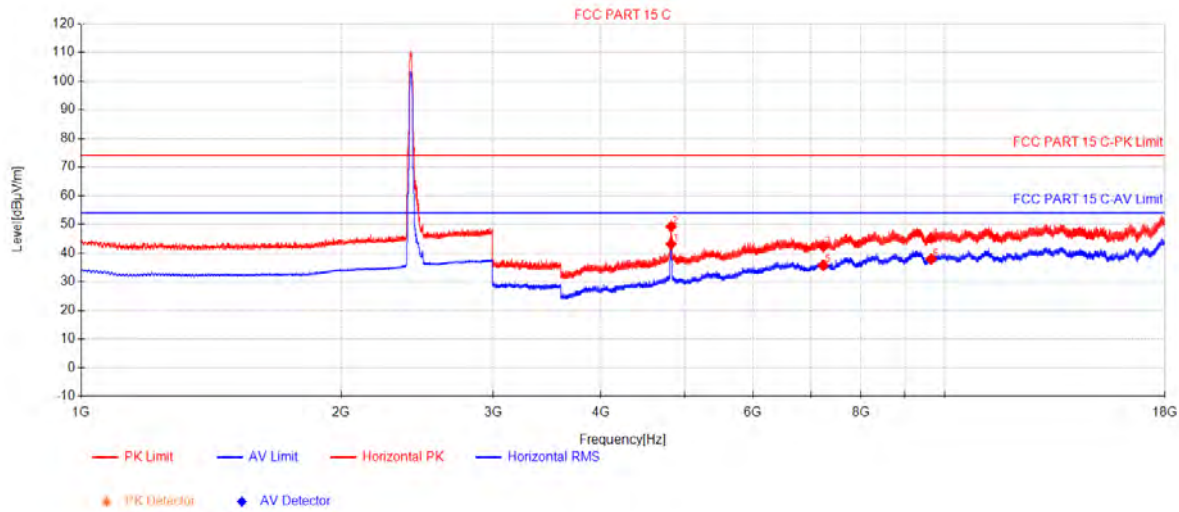


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802.11g_Channel 01



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	4823	55.48	32.18	-44.54	43.11	54.00	10.89	163	205	Horizontal
2	4822.5	61.54	32.17	-44.54	49.17	74.00	24.83	254	181	Horizontal
3	7236	48.04	36.34	-42.08	42.30	74.00	31.70	174	181	Horizontal
4	9648	44.40	38.54	-37.82	45.11	74.00	28.89	185	331	Horizontal
5	7236	41.45	36.34	-42.08	35.71	54.00	18.29	263	0	Horizontal
6	9648	37.16	38.54	-37.82	37.87	54.00	16.13	241	306	Horizontal

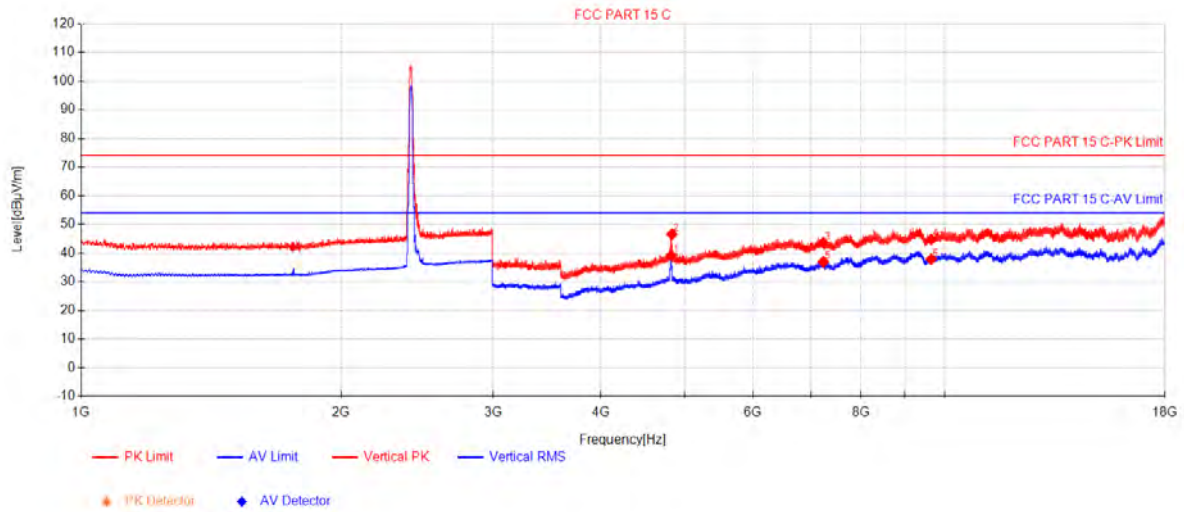


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802.11g_Channel 01



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	4823.5	51.54	32.18	-44.54	39.17	54.00	14.83	142	333	Vertical
2	4832.5	58.92	32.20	-44.58	46.53	74.00	27.47	285	255	Vertical
3	7236	49.32	36.34	-42.08	43.58	74.00	30.42	296	332	Vertical
4	9648	43.98	38.54	-37.82	44.69	74.00	29.31	265	332	Vertical
5	7236	42.63	36.34	-42.08	36.89	54.00	17.11	241	201	Vertical
6	9648	37.11	38.54	-37.82	37.82	54.00	16.18	185	7	Vertical

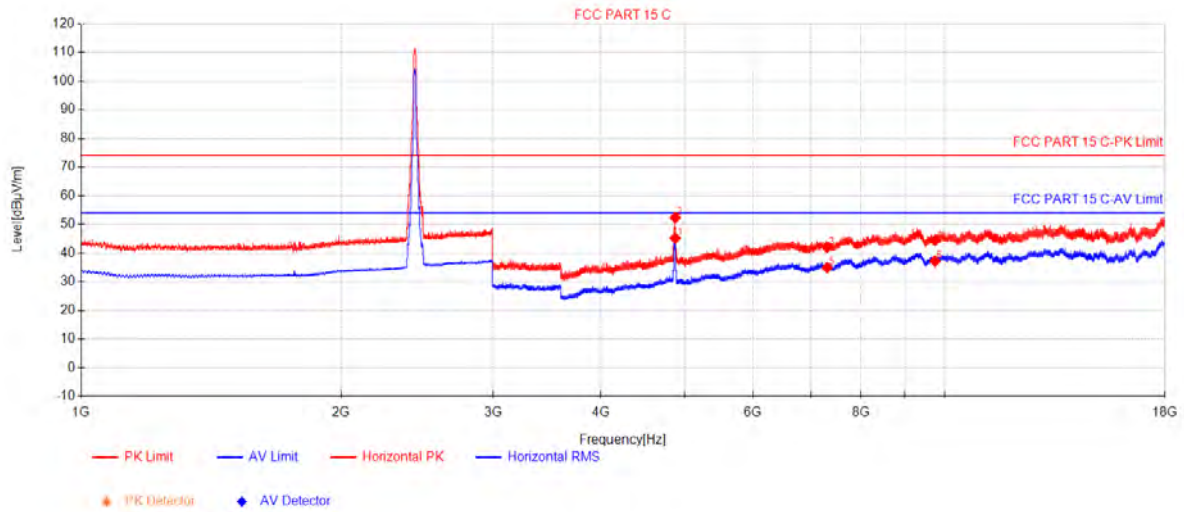


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802.11g_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4876	57.67	32.30	-44.77	45.20	54.00	8.80	142	178	Horizontal
2	4875.5	64.79	32.30	-44.77	52.32	74.00	21.68	286	178	Horizontal
3	7311	47.40	36.39	-41.78	42.00	74.00	32.00	263	0	Horizontal
4	9748	43.36	38.53	-37.51	44.37	74.00	29.63	265	153	Horizontal
5	7311	40.29	36.39	-41.78	34.89	54.00	19.11	241	125	Horizontal
6	9748	36.17	38.53	-37.51	37.18	54.00	16.82	175	256	Horizontal

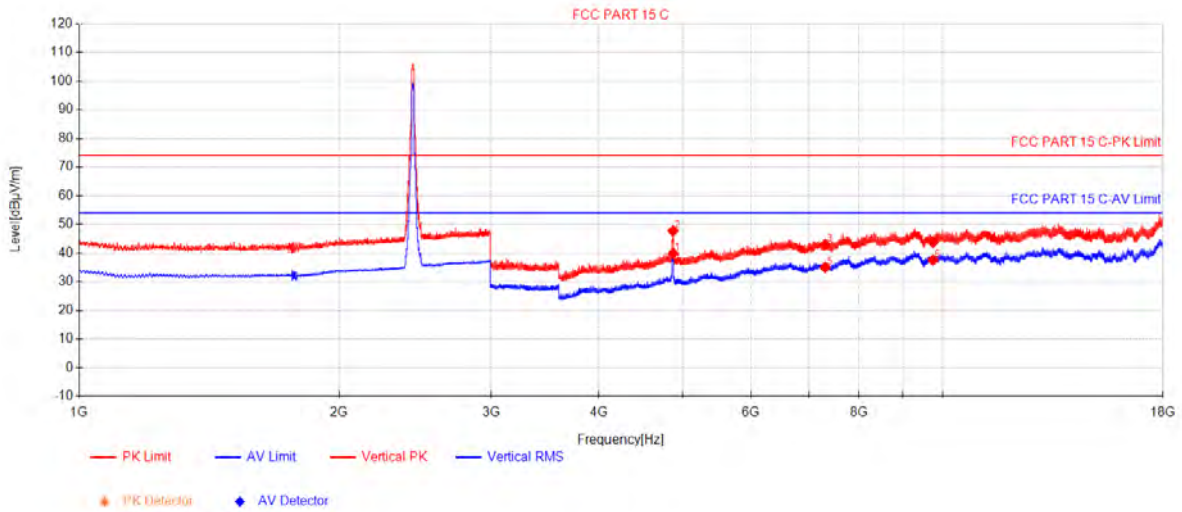


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802.11g_Channel 06



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	4875	52.33	32.30	-44.77	39.86	54.00	14.14	142	328	Vertical
2	4873	60.14	32.30	-44.76	47.67	74.00	26.33	286	357	Vertical
3	7311	48.39	36.39	-41.78	42.99	74.00	31.01	263	0	Vertical
4	9748	42.70	38.53	-37.51	43.71	74.00	30.29	265	88	Vertical
5	7311	40.38	36.39	-41.78	34.98	54.00	19.02	241	59	Vertical
6	9748	36.52	38.53	-37.51	37.53	54.00	16.47	175	357	Vertical

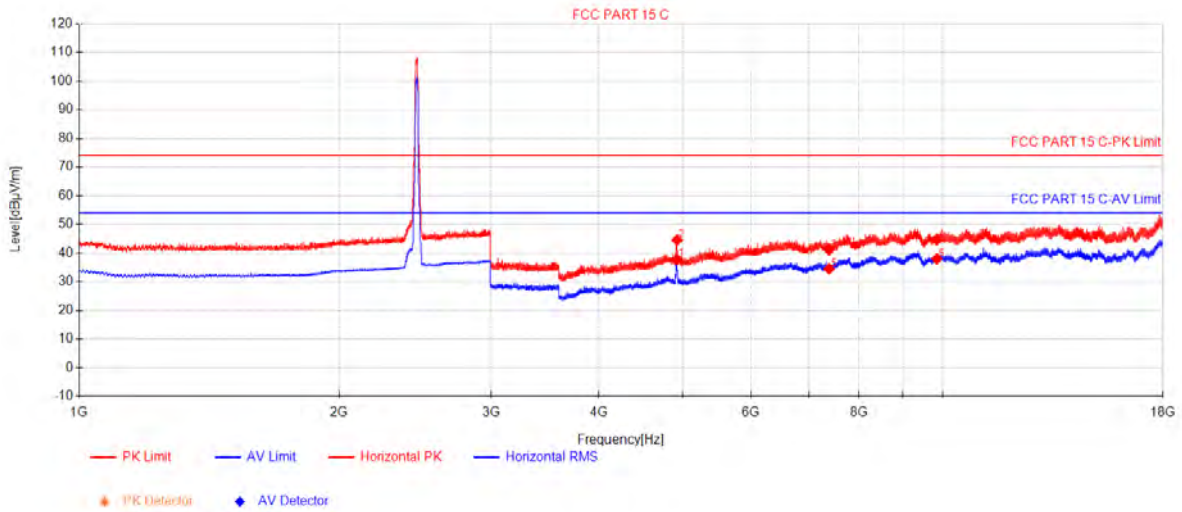


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802.11g_Channel 11



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	4926	50.25	32.42	-44.90	37.78	54.00	16.22	142	181	Horizontal
2	4926	56.97	32.42	-44.90	44.50	74.00	29.50	286	230	Horizontal
3	7386	46.63	36.43	-41.95	41.11	74.00	32.89	263	360	Horizontal
4	9848	43.38	38.52	-37.38	44.52	74.00	29.48	178	359	Horizontal
5	7386	39.93	36.43	-41.95	34.41	54.00	19.59	265	154	Horizontal
6	9848	36.81	38.52	-37.38	37.95	54.00	16.05	241	280	Horizontal

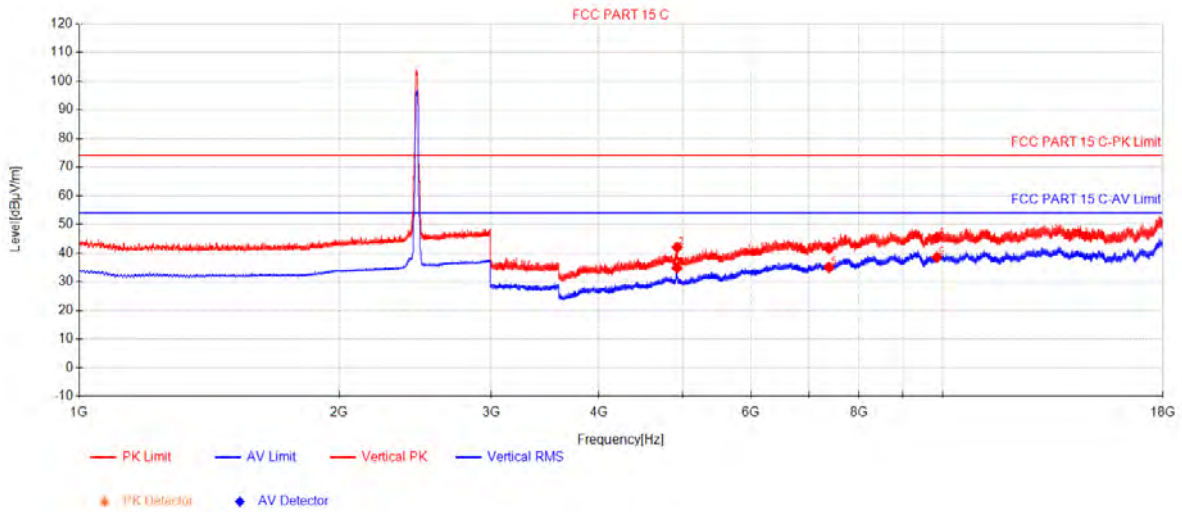


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802.11g_Channel 11



Data List										
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1	4925	47.28	32.42	-44.90	34.80	54.00	19.20	142	282	Vertical
2	4926	54.38	32.42	-44.90	41.91	74.00	32.09	296	282	Vertical
3	7386	47.12	36.43	-41.95	41.60	74.00	32.40	263	359	Vertical
4	9848	44.25	38.52	-37.38	45.39	74.00	28.61	265	204	Vertical
5	7386	40.47	36.43	-41.95	34.95	54.00	19.05	241	129	Vertical
6	9848	37.34	38.52	-37.38	38.48	54.00	15.52	102	28	Vertical

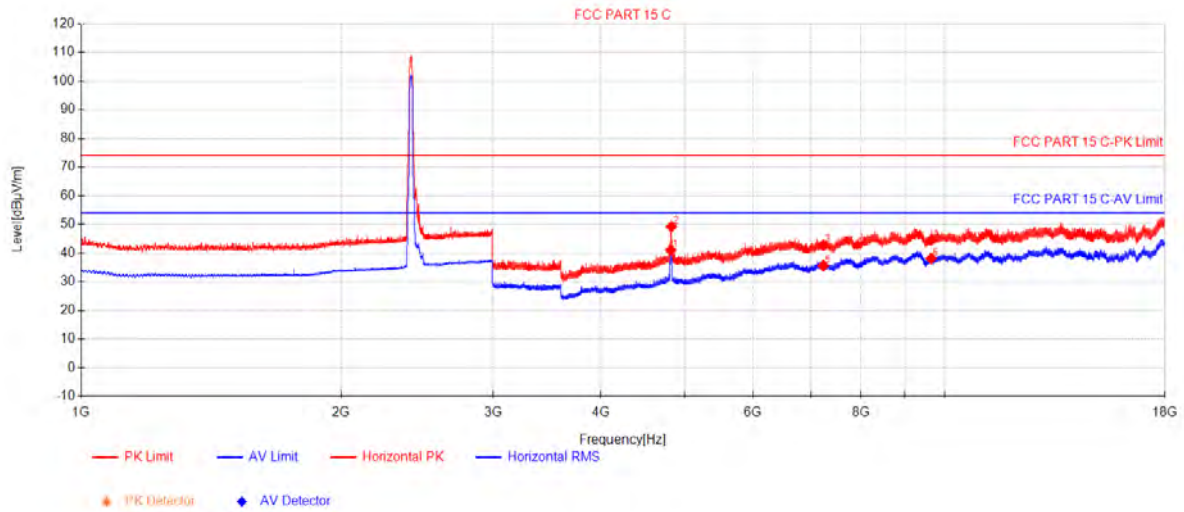


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802.11n20_Channel 01



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	4818.5	53.36	32.16	-44.52	41.00	54.00	13.00	142	182	Horizontal
2	4825	61.53	32.18	-44.55	49.16	74.00	24.84	286	182	Horizontal
3	7236	48.46	36.34	-42.08	42.72	74.00	31.28	263	225	Horizontal
4	9648	43.78	38.54	-37.82	44.49	74.00	29.51	265	359	Horizontal
5	7236	41.30	36.34	-42.08	35.56	54.00	18.44	241	157	Horizontal
6	9648	37.37	38.54	-37.82	38.08	54.00	15.92	178	360	Horizontal

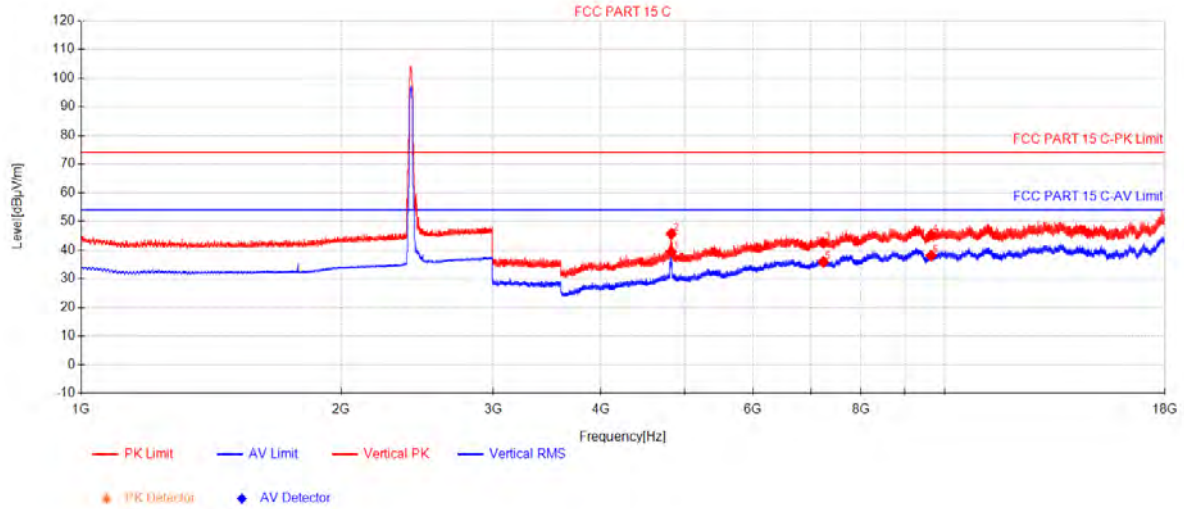


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802.11n20_Channel 01



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	4823.5	51.78	32.18	-44.54	39.41	54.00	14.59	142	330	Vertical
2	4826	57.99	32.18	-44.55	45.62	74.00	28.38	285	360	Vertical
3	7236	48.24	36.34	-42.08	42.50	74.00	31.50	263	54	Vertical
4	9648	44.57	38.54	-37.82	45.28	74.00	28.72	265	359	Vertical
5	7236	41.57	36.34	-42.08	35.83	54.00	18.17	241	148	Vertical
6	9648	37.34	38.54	-37.82	38.05	54.00	15.95	102	232	Vertical

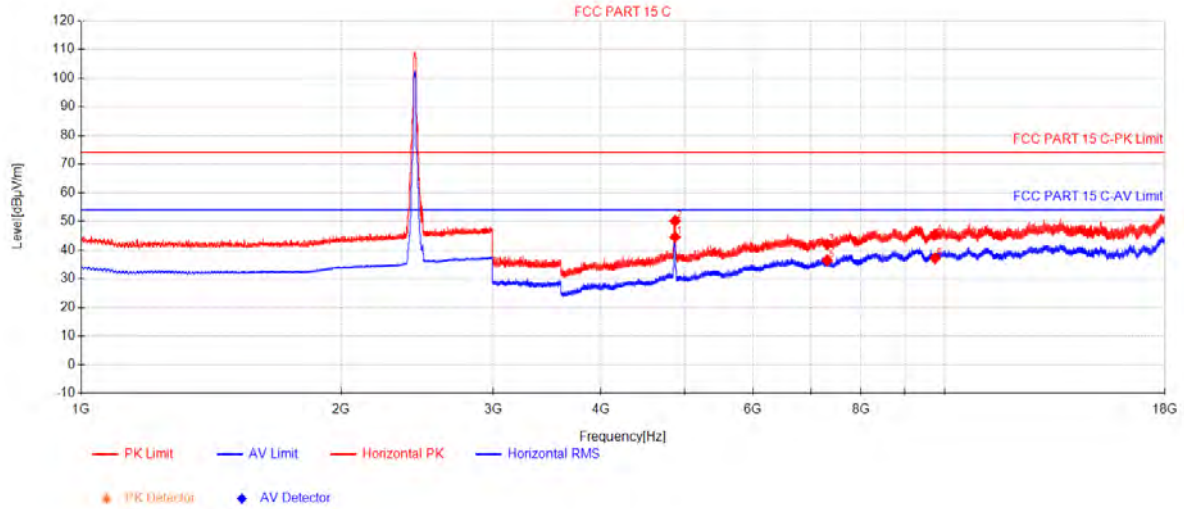


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802.11n20_Channel 06



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	4873.5	57.00	32.30	-44.76	44.53	54.00	9.47	142	200	Horizontal
2	4874.5	62.58	32.30	-44.77	50.11	74.00	23.89	286	229	Horizontal
3	7311	47.35	36.39	-41.78	41.95	74.00	32.05	265	224	Horizontal
4	9748	44.37	38.53	-37.51	45.38	74.00	28.62	241	352	Horizontal
5	7311	41.79	36.39	-41.78	36.39	54.00	17.61	142	352	Horizontal
6	9748	36.10	38.53	-37.51	37.11	54.00	16.89	282	205	Horizontal

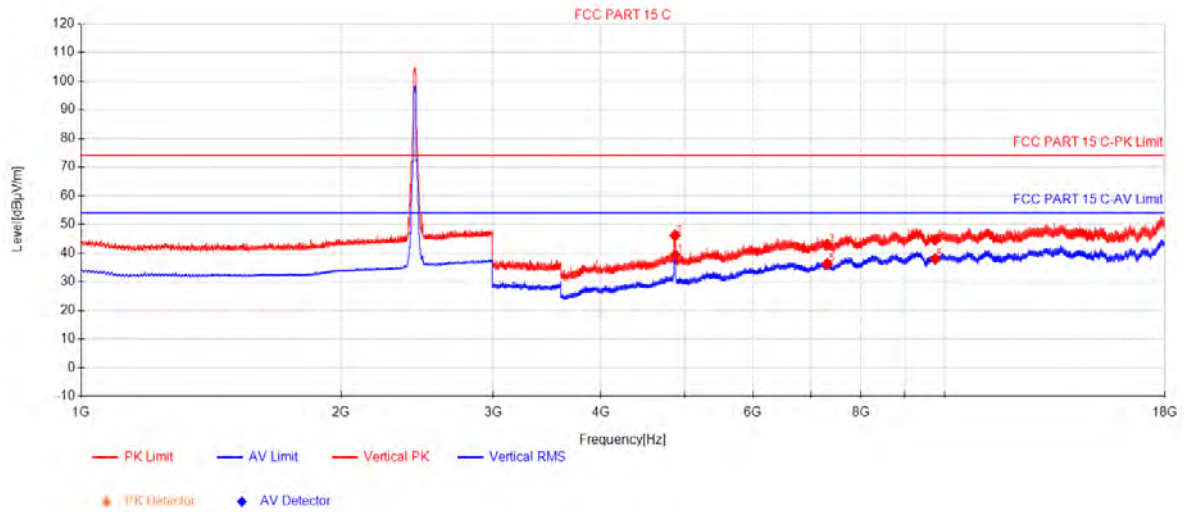


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802.11n20_Channel 06



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	4876.5	51.83	32.30	-44.78	39.36	54.00	14.64	142	284	Vertical
2	4874.5	58.55	32.30	-44.77	46.08	74.00	27.92	286	284	Vertical
3	7311	48.37	36.39	-41.78	42.97	74.00	31.03	263	360	Vertical
4	9748	43.51	38.53	-37.51	44.52	74.00	29.48	265	80	Vertical
5	7311	41.57	36.39	-41.78	36.17	54.00	17.83	254	182	Vertical
6	9748	36.88	38.53	-37.51	37.89	54.00	16.11	178	312	Vertical

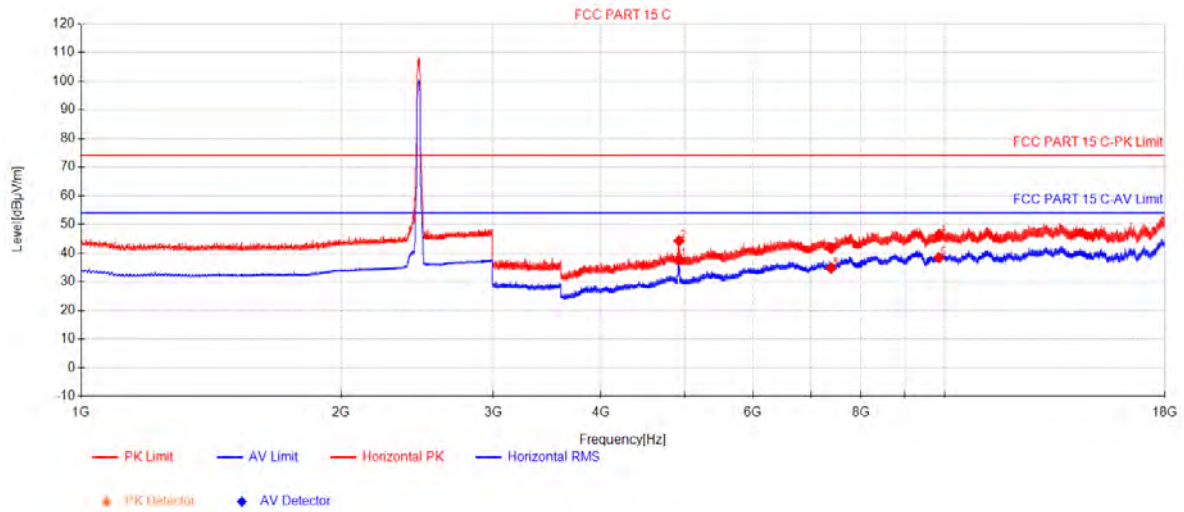


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1	4927	50.23	32.42	-44.90	37.76	54.00	16.24	142	177	Horizontal
2	4925	56.68	32.42	-44.90	44.20	74.00	29.80	285	177	Horizontal
3	7386	47.19	36.43	-41.95	41.67	74.00	32.33	265	82	Horizontal
4	9848	45.14	38.52	-37.38	46.28	74.00	27.72	254	262	Horizontal
5	7386	40.22	36.43	-41.95	34.70	54.00	19.30	142	359	Horizontal
6	9848	37.22	38.52	-37.38	38.36	54.00	15.64	298	159	Horizontal



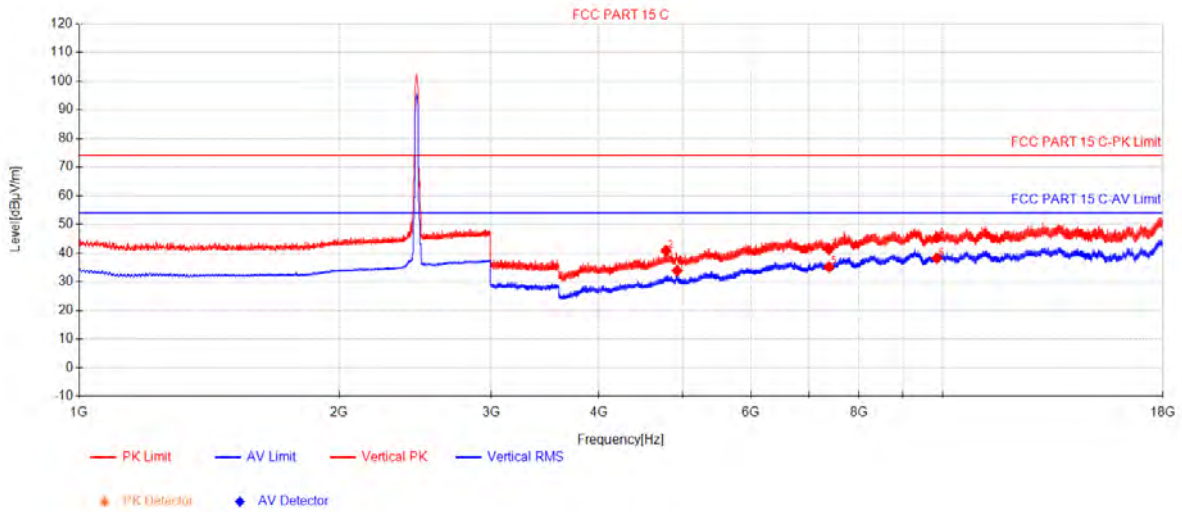
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802.11n20_Channel 11



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	4927	46.31	32.42	-44.90	33.84	54.00	20.16	142	259	Vertical
2	4782	53.14	32.08	-44.41	40.81	74.00	33.19	265	28	Vertical
3	7386	46.86	36.43	-41.95	41.34	74.00	32.66	284	181	Vertical
4	9848	44.17	38.52	-37.38	45.31	74.00	28.69	178	259	Vertical
5	7386	40.63	36.43	-41.95	35.11	54.00	18.89	166	360	Vertical
6	9848	37.05	38.52	-37.38	38.19	54.00	15.81	264	259	Vertical



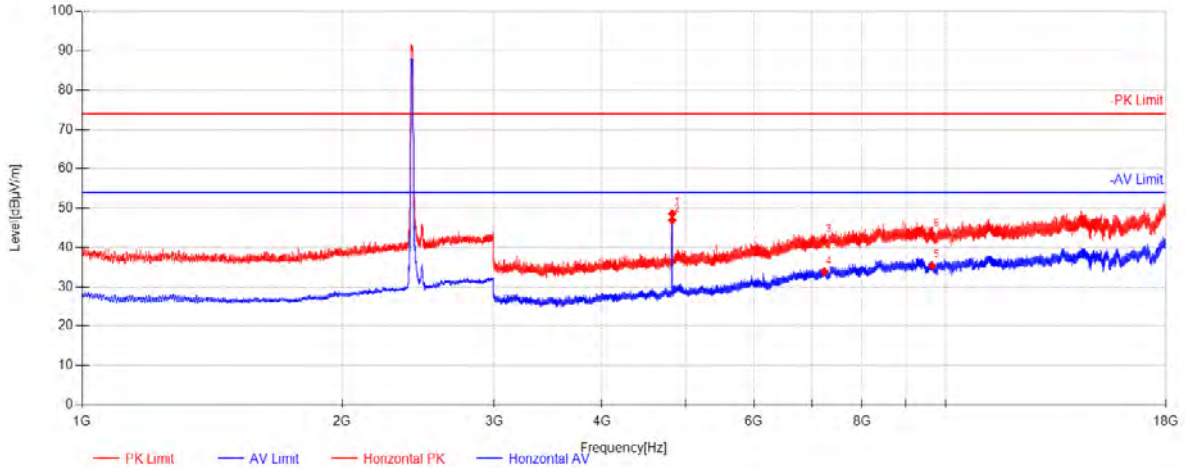
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For Sample #2(Worst):

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	61.75	32.39	-45.54	48.60	74.00	25.40	142	249	Horizontal
2	4824.5	60.07	32.39	-45.54	46.92	54.00	7.08	135	249	Horizontal
3	7236.0000	48.72	36.58	-43.54	41.76	74.00	32.24	161	55	Horizontal
4	7236.0000	40.79	36.58	-43.54	33.83	54.00	20.17	148	85	Horizontal
5	9648.0000	36.52	38.39	-39.56	35.35	54.00	18.65	185	29	Horizontal
6	9648.0000	44.56	38.39	-39.56	43.39	74.00	30.61	196	195	Horizontal

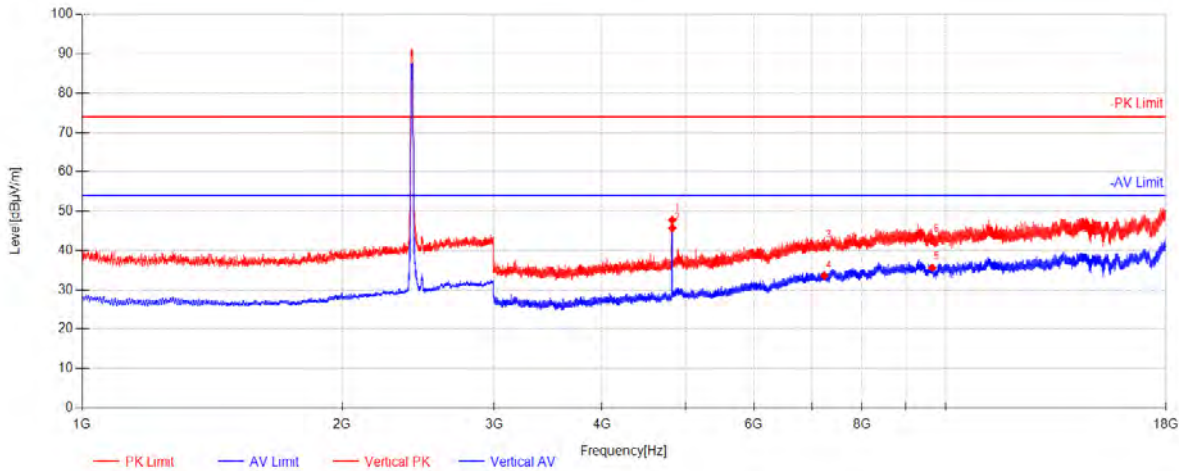


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802.11b_Channel 01



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	60.90	32.39	-45.54	47.75	74.00	26.25	211	278	Vertical
2	4824.5	58.84	32.39	-45.54	45.69	54.00	8.31	236	278	Vertical
3	7236.0000	48.08	36.58	-43.54	41.12	74.00	32.88	261	7	Vertical
4	7236.0000	40.54	36.58	-43.54	33.58	54.00	20.42	142	140	Vertical
5	9648.0000	36.80	38.39	-39.56	35.63	54.00	18.37	175	140	Vertical
6	9648.0000	43.88	38.39	-39.56	42.71	74.00	31.29	122	278	Vertical

Remark:

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

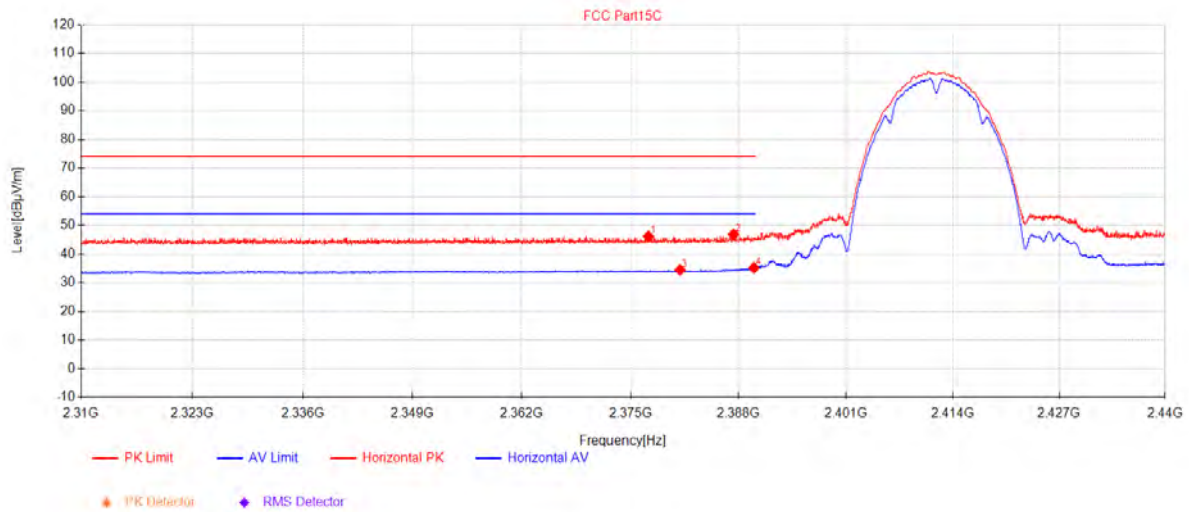


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Restricted bands around fundamental frequency

For Sample #1:

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	2377.145	42.93	27.65	-24.45	46.13	74.00	27.87	144	237	Horizontal
2	2387.3825	43.55	27.67	-24.43	46.80	74.00	27.20	144	237	Horizontal
3	2380.9475	31.17	27.66	-24.44	34.39	54.00	19.61	144	237	Horizontal
4	2389.8525	31.90	27.68	-24.42	35.16	54.00	18.84	144	237	Horizontal

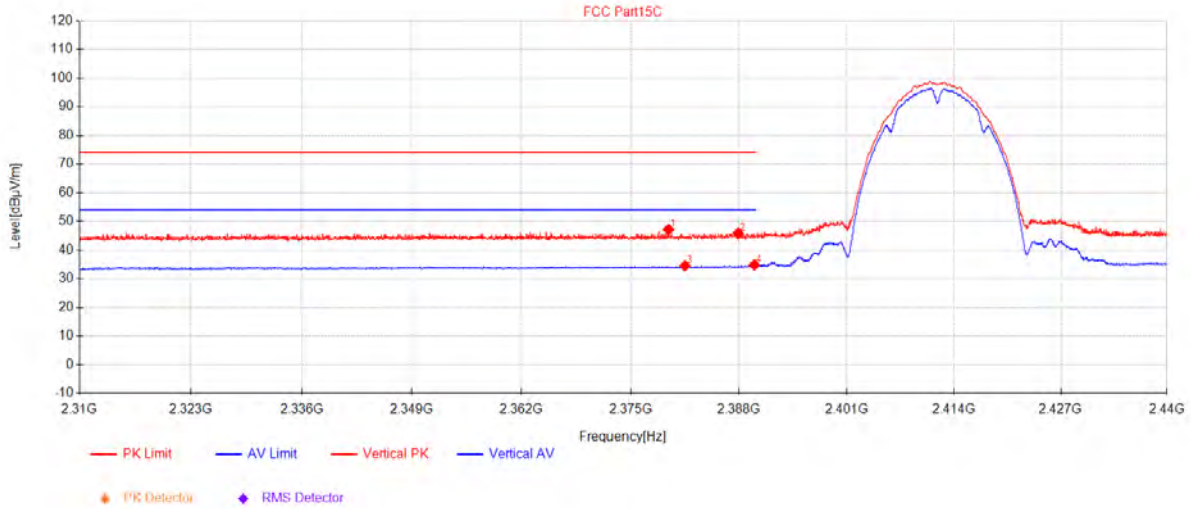


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802.11b_Channel 01



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	2379.55	43.91	27.66	-24.44	47.12	74.00	26.88	322	282	Vertical
2	2387.9025	42.54	27.68	-24.43	45.79	74.00	28.21	322	282	Vertical
3	2381.5	31.22	27.66	-24.44	34.44	54.00	19.56	322	282	Vertical
4	2389.8525	31.53	27.68	-24.42	34.79	54.00	19.21	322	282	Vertical

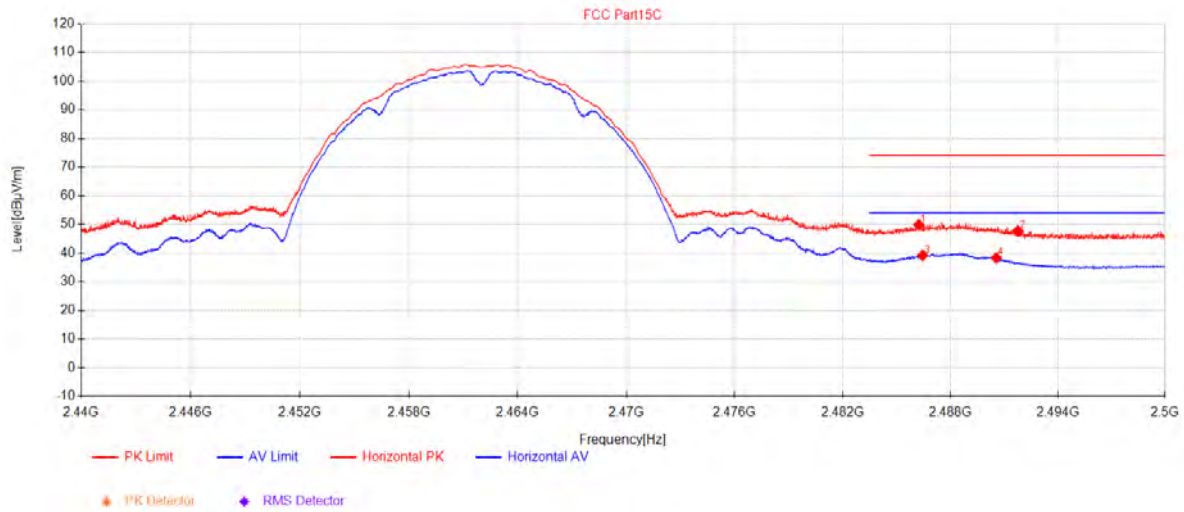


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802.11b_Channel 11



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	2486.245	45.93	27.87	-23.94	49.86	74.00	24.14	145	241	Horizontal
2	2491.765	43.68	27.88	-23.91	47.65	74.00	26.35	145	241	Horizontal
3	2486.455	35.21	27.87	-23.94	39.14	54.00	14.86	145	241	Horizontal
4	2490.565	34.34	27.88	-23.92	38.30	54.00	15.70	145	241	Horizontal

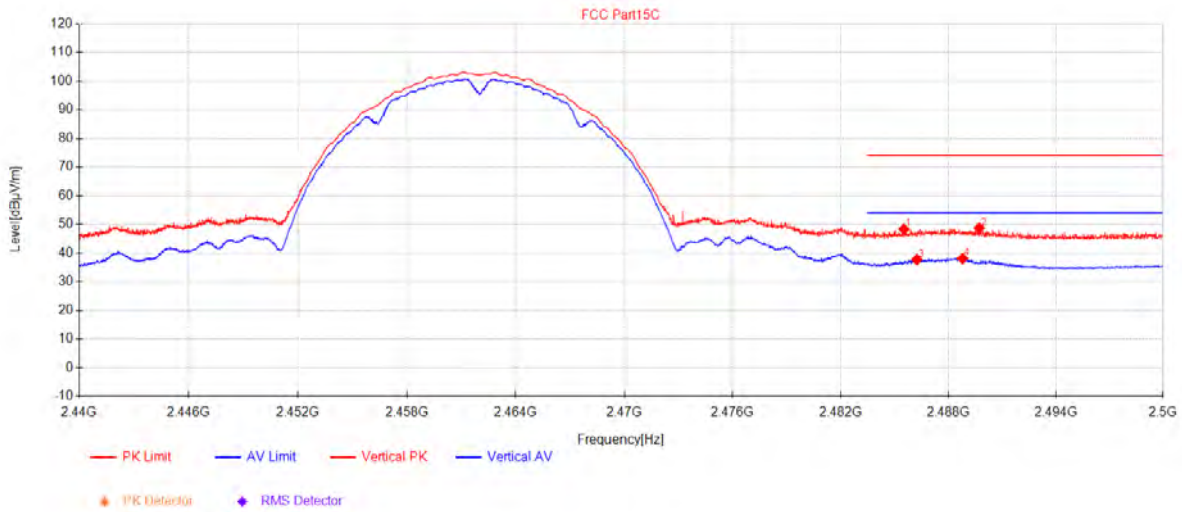


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802.11b_Channel 11



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	2485.525	44.37	27.87	-23.95	48.29	74.00	25.71	375	39	Vertical
2	2489.725	44.76	27.88	-23.92	48.71	74.00	25.29	375	39	Vertical
3	2486.245	33.73	27.87	-23.94	37.66	54.00	16.34	375	39	Vertical
4	2488.795	34.13	27.88	-23.93	38.08	54.00	15.92	375	39	Vertical

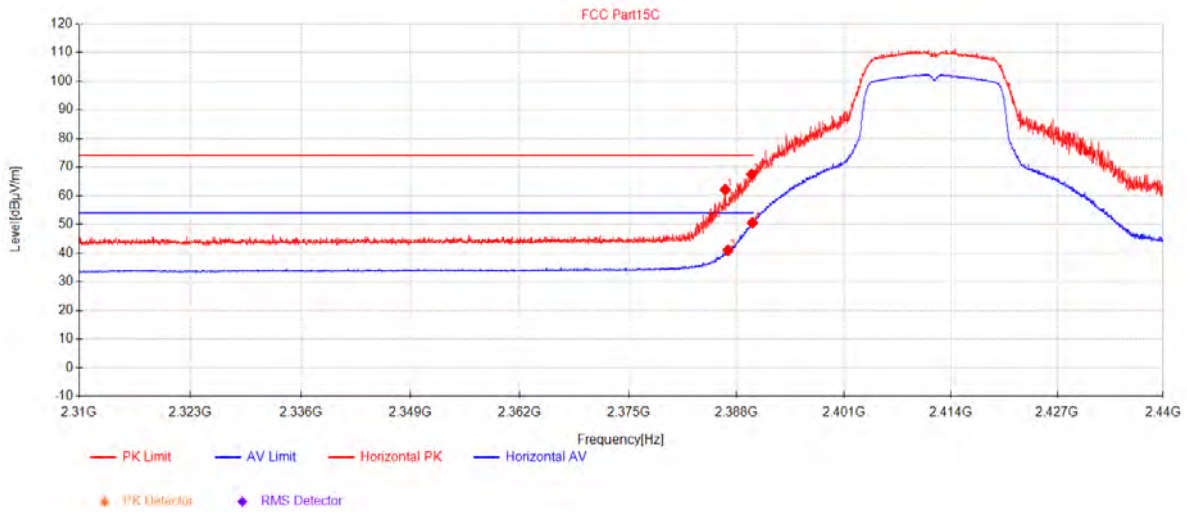


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802.11g_Channel 01



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	2386.635	58.81	27.67	-24.43	62.05	74.00	11.95	102	251	Horizontal
2	2389.82	64.12	27.68	-24.42	67.38	74.00	6.62	102	251	Horizontal
3	2386.96	37.66	27.67	-24.43	40.91	54.00	13.09	102	251	Horizontal
4	2389.9175	47.30	27.68	-24.42	50.56	54.00	3.44	102	251	Horizontal

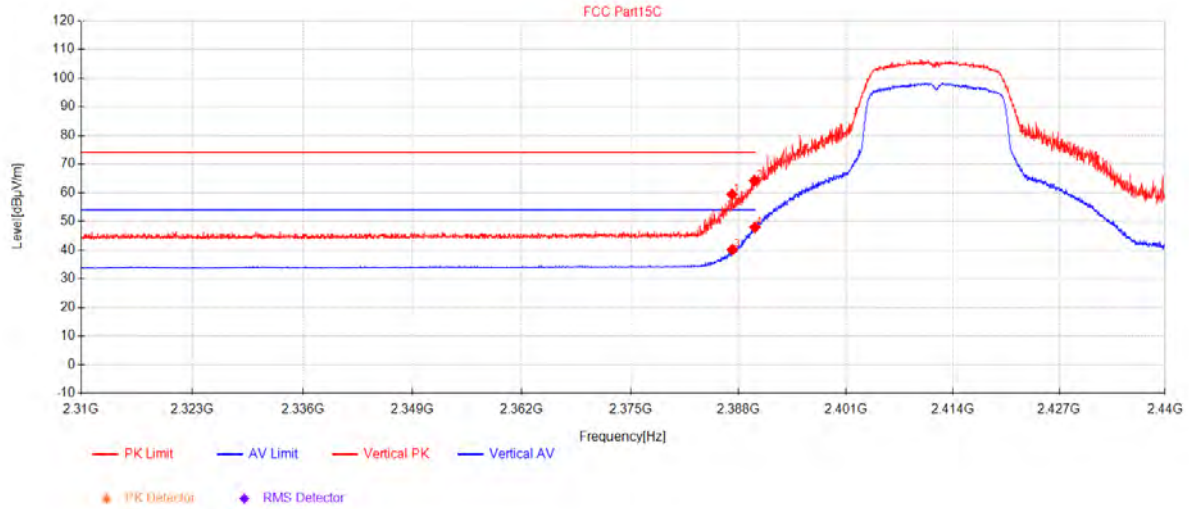


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802.11g_Channel 01



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	2387.22	56.09	27.67	-24.43	59.34	74.00	14.66	368	38	Vertical
2	2389.9175	60.91	27.68	-24.42	64.17	74.00	9.83	368	38	Vertical
3	2387.2525	36.84	27.67	-24.43	40.09	54.00	13.91	368	38	Vertical
4	2389.9825	44.66	27.68	-24.42	47.92	54.00	6.08	368	38	Vertical

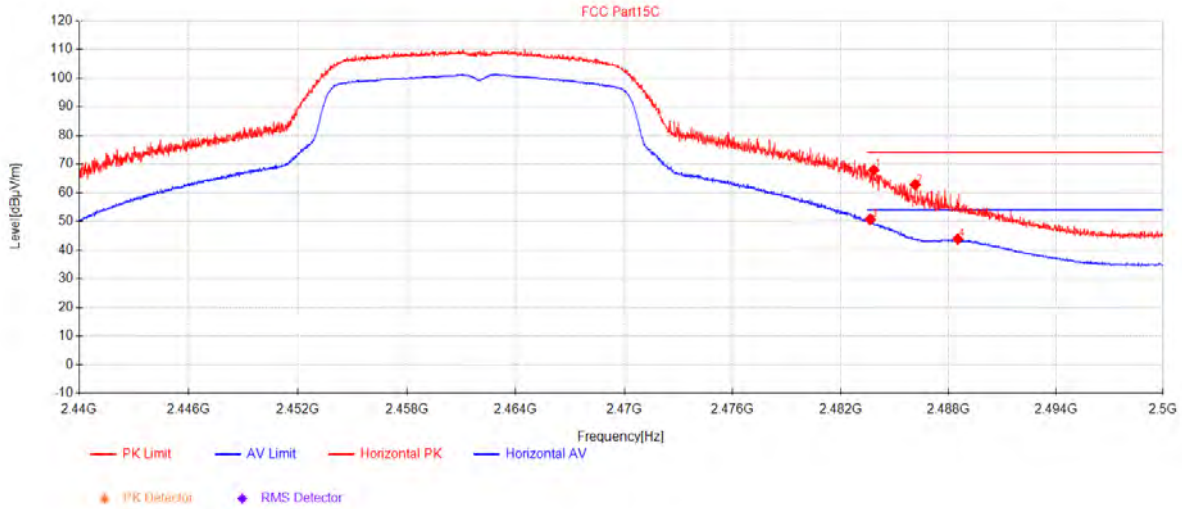


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802.11g_Channel 11



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	2483.845	63.94	27.87	-23.96	67.85	74.00	6.15	104	243	Horizontal
2	2486.155	58.84	27.87	-23.94	62.77	74.00	11.23	104	243	Horizontal
3	2483.65	46.78	27.87	-23.96	50.69	54.00	3.31	104	243	Horizontal
4	2488.525	39.88	27.88	-23.93	43.83	54.00	10.17	104	243	Horizontal

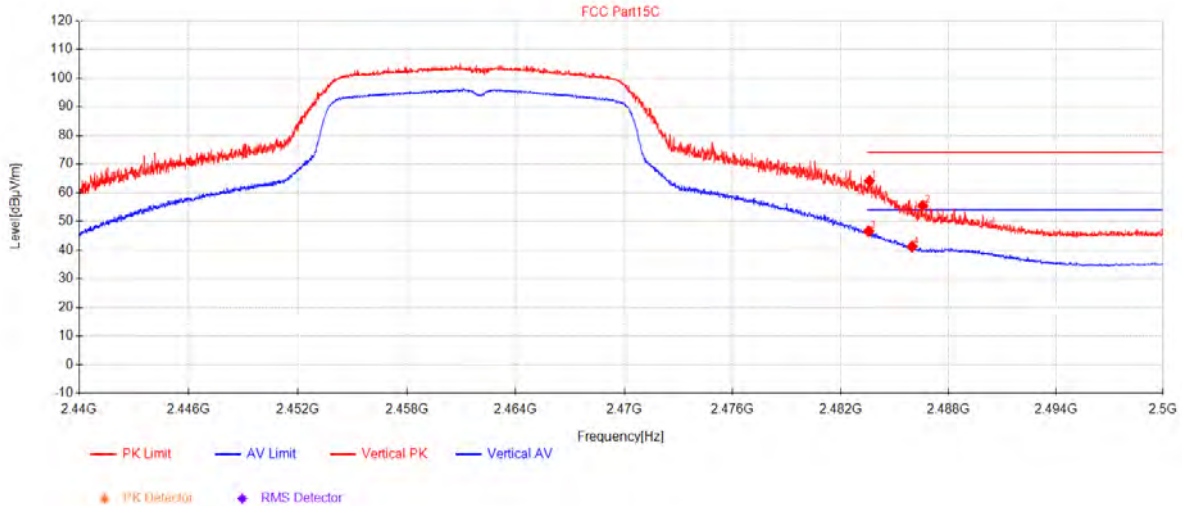


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802.11g_Channel 11



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	2483.605	60.16	27.87	-23.96	64.07	74.00	9.93	362	32	Vertical
2	2486.575	51.50	27.87	-23.94	55.43	74.00	18.57	362	32	Vertical
3	2483.56	42.62	27.87	-23.96	46.53	54.00	7.47	362	32	Vertical
4	2485.975	37.25	27.87	-23.94	41.18	54.00	12.82	362	32	Vertical

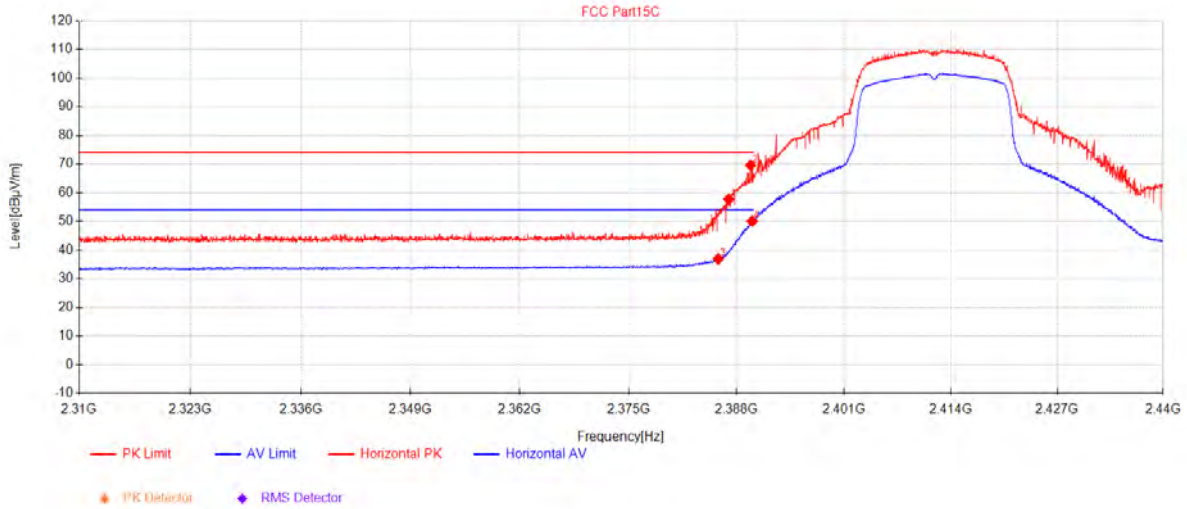


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802.11n20_Channel 01



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	2387.0575	54.41	27.67	-24.43	57.66	74.00	16.34	108	246	Horizontal
2	2389.69	66.27	27.68	-24.42	69.53	74.00	4.47	108	246	Horizontal
3	2385.79	33.61	27.67	-24.43	36.85	54.00	17.15	108	246	Horizontal
4	2389.885	46.77	27.68	-24.42	50.03	54.00	3.97	108	246	Horizontal

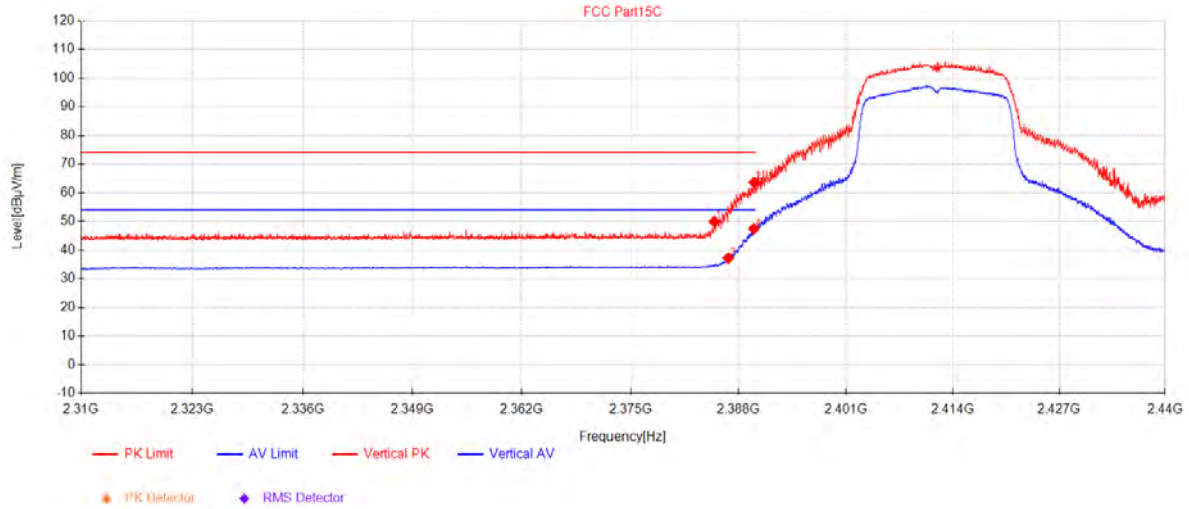


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802.11n20_Channel 01



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	2385.075	46.68	27.67	-24.43	49.92	74.00	24.08	375	39	Vertical
2	2389.885	60.28	27.68	-24.42	63.54	74.00	10.46	375	39	Vertical
3	2386.765	33.92	27.67	-24.43	37.16	54.00	16.84	375	39	Vertical
4	2389.8525	44.14	27.68	-24.42	47.40	54.00	6.60	375	39	Vertical

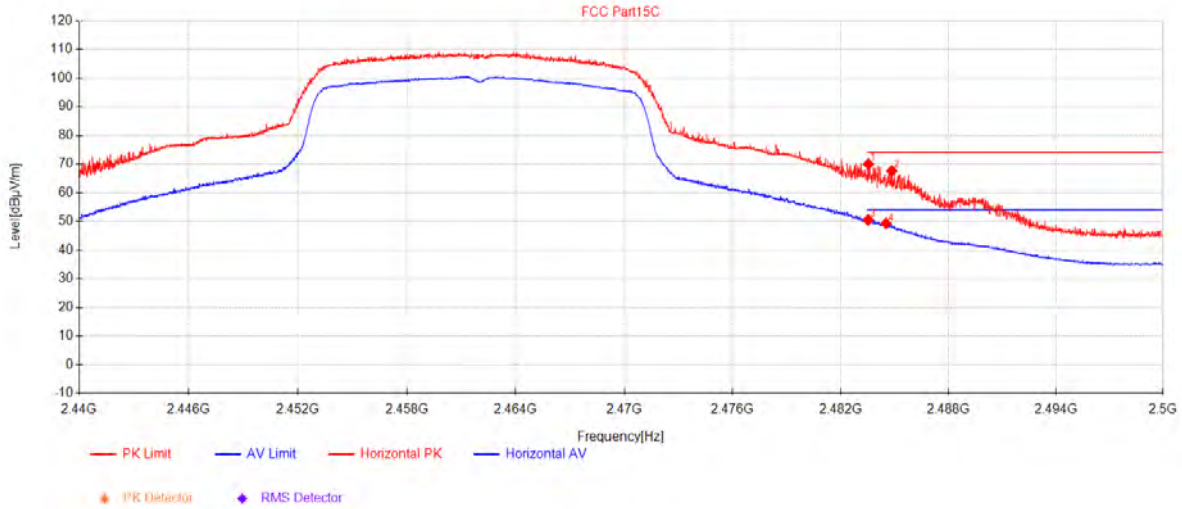


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802.11n20_Channel 11



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	2483.545	66.01	27.87	-23.96	69.92	74.00	4.08	105	241	Horizontal
2	2484.85	63.64	27.87	-23.95	67.56	74.00	6.44	105	241	Horizontal
3	2483.53	46.58	27.87	-23.96	50.49	54.00	3.51	105	241	Horizontal
4	2484.535	45.32	27.87	-23.95	49.24	54.00	4.76	105	241	Horizontal

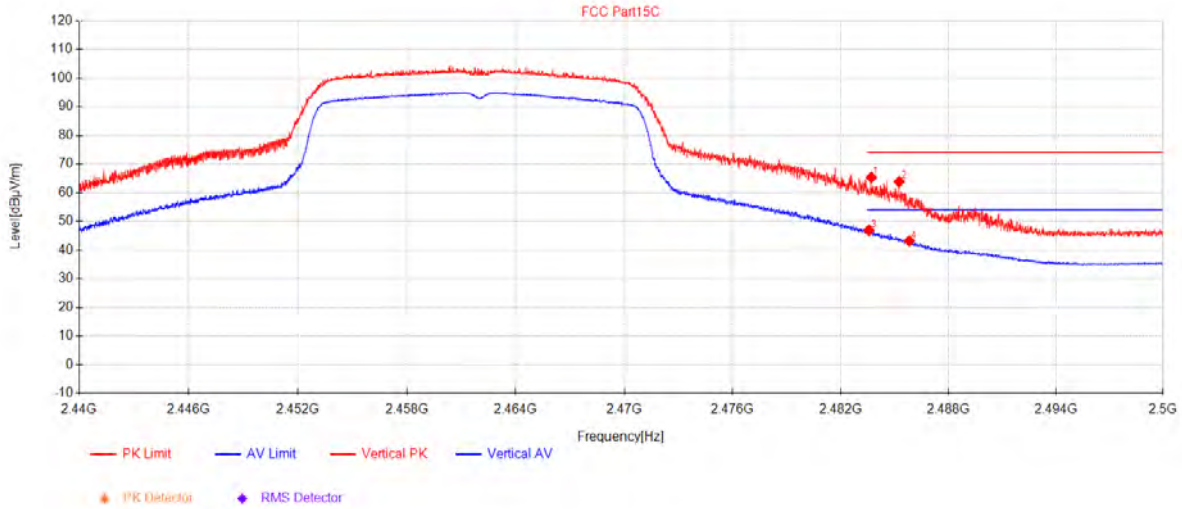


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802.11n20_Channel 11



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	2483.71	61.39	27.87	-23.96	65.30	74.00	8.70	368	39	Vertical
2	2485.255	59.87	27.87	-23.95	63.79	74.00	10.21	368	39	Vertical
3	2483.575	42.96	27.87	-23.96	46.87	54.00	7.13	368	39	Vertical
4	2485.825	39.26	27.87	-23.95	43.19	54.00	10.81	368	39	Vertical



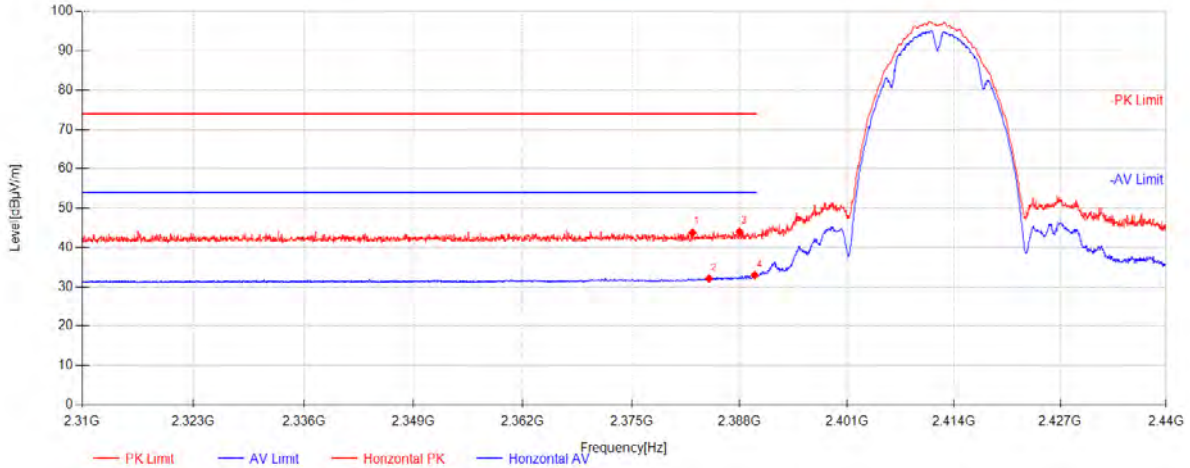
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For Sample #2(Worst):

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	2382.3233	39.91	27.43	-23.57	43.77	74.00	30.23	136	12	Horizontal
2	2384.3167	28.25	27.43	-23.57	32.11	54.00	21.89	136	12	Horizontal
3	2388	40.17	27.43	-23.57	44.03	74.00	29.97	136	12	Horizontal
4	2389.82	29.08	27.43	-23.57	32.94	54.00	21.06	136	12	Horizontal

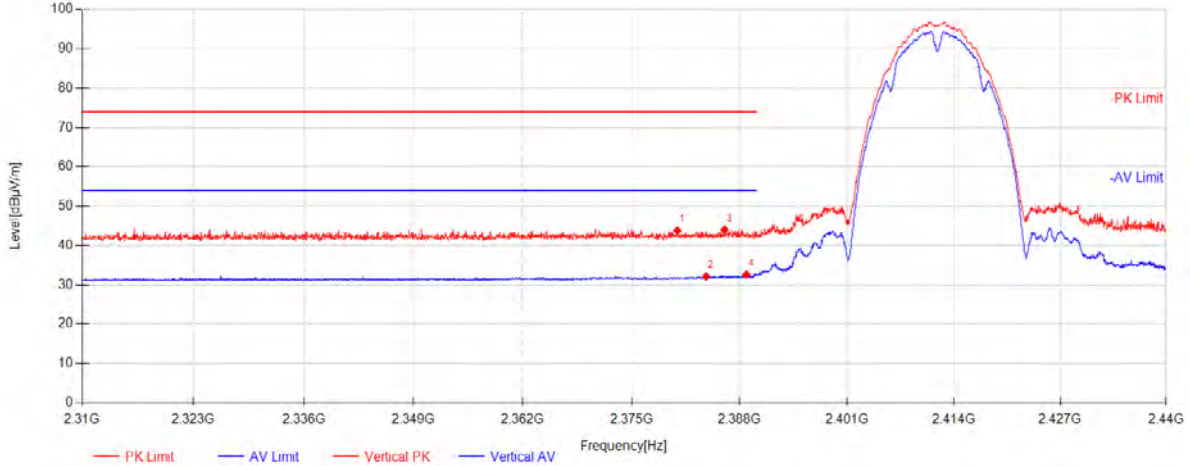


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802.11b_Channel 01



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	2380.5033	39.94	27.43	-23.57	43.80	74.00	30.20	215	46	Vertical
2	2383.97	28.28	27.43	-23.57	32.14	54.00	21.86	215	46	Vertical
3	2386.18	40.16	27.43	-23.57	44.02	74.00	29.98	215	46	Vertical
4	2388.8233	28.73	27.43	-23.57	32.59	54.00	21.41	215	46	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)

---End of Report---



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