

Report No.: SEWM2207000107RG05

Rev.: 01

Page: 1 of 125

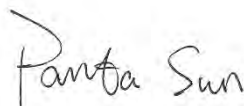
# TEST REPORT

**Application No.:** SEWM2207000107RG  
**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.:** TB350FU  
**Trade Mark:** Lenovo  
**FCC ID:** O57TB350FU  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022/07/11  
**Date of Test:** 2022/07/16 to 2022/08/12  
**Date of Issue:** 2022/08/16

<b>Test Result :</b>	<b>PASS *</b>
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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		2022/08/16		Original

<b>Prepared By</b>		 <hr/> (Tizzy Song) / Test Engineer
<b>Checked By</b>		 <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:	Lves Cheng, Tizy Song

#### 3.3 Test Facility

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

<ul style="list-style-type: none"> <li> <b>A2LA (Certificate No. 6336.01)</b>                      SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.                 </li> <li> <b>Innovation, Science and Economic Development Canada</b>                      SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.                      CAB identifier: CN0120.                      IC#: 27594.                 </li> <li> <b>FCC –Designation Number: CN1312</b>                      SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.                      Designation Number: CN1312.                      Test Firm Registration Number: 717327                 </li> </ul>
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### 3.4 General Description of EUT

EUT Description:	Portable Tablet Computer	
Model No.:	TB350FU	
Trade Mark:	Lenovo	
Hardware Version:	TB350FU	
Software Version:	TB350FU_RF01_220729	
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n/ax
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n/ax: Tx & Rx
		STBC: 802.11n/ax: Tx & Rx
		TXBF: 802.11n/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	
<p>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.</p> <p>Remark:          As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.          The EUT only support full RU.</p>		



Operation Frequency of each channel (802.11b/g/n HT20/ax HE20)							
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)/ax (HE20)
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)	/
802.11ax (HE 20)	MCS0 (8 Mbps)	/





## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	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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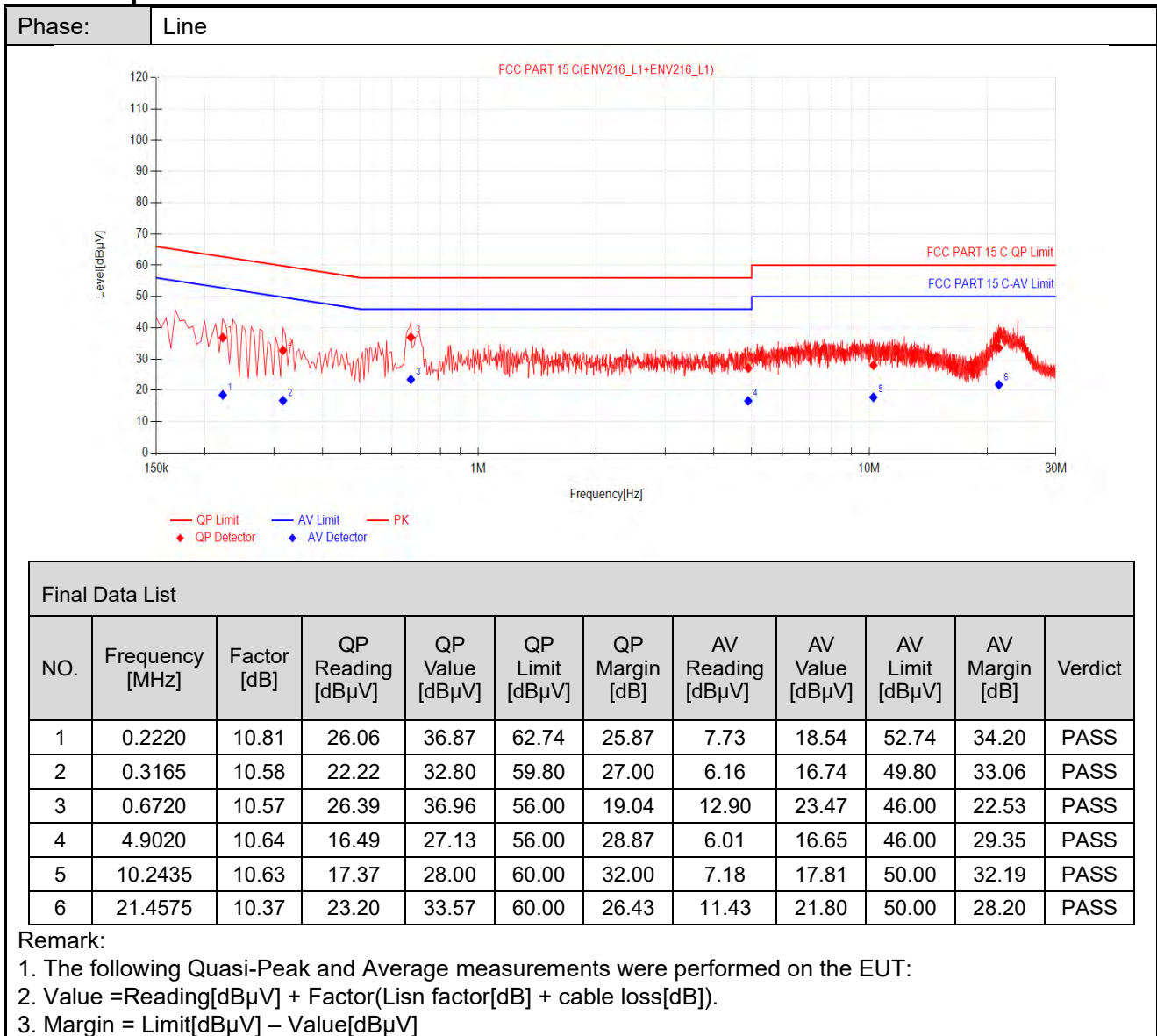
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Measurement Data

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:

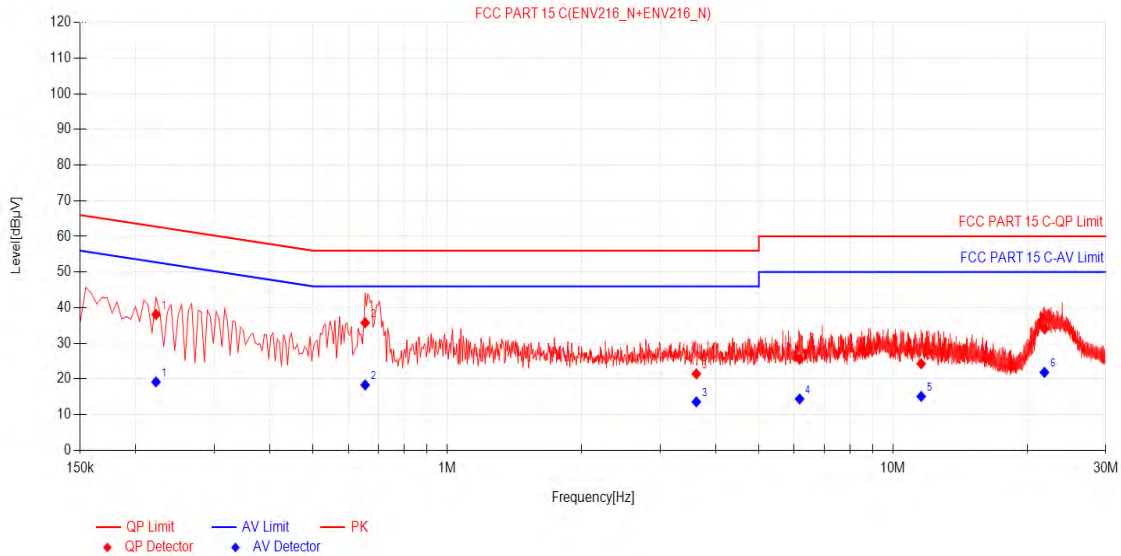


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Phase: Neutral



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	27.39	38.08	62.74	24.66	8.49	19.18	52.74	33.56	PASS
2	0.6540	10.76	25.00	35.76	56.00	20.24	7.57	18.33	46.00	27.67	PASS
3	3.6195	10.69	10.74	21.43	56.00	34.57	2.90	13.59	46.00	32.41	PASS
4	6.1710	10.56	14.99	25.55	60.00	34.45	3.84	14.40	50.00	35.60	PASS
5	11.5665	10.65	13.63	24.28	60.00	35.72	4.46	15.11	50.00	34.89	PASS
6	21.8670	10.44	23.66	34.10	60.00	25.90	11.43	21.87	50.00	28.13	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]

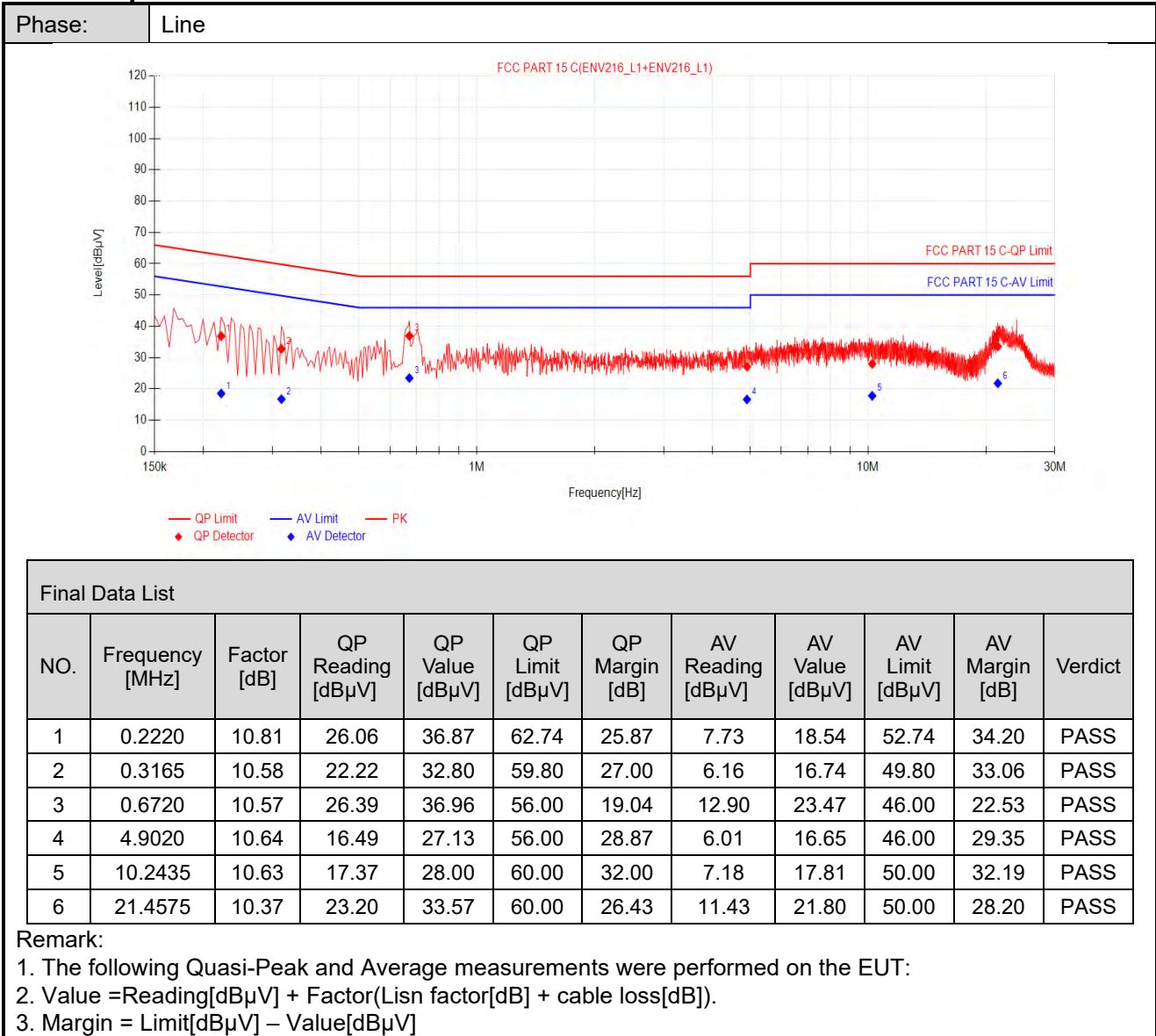


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**For Sample #2:**

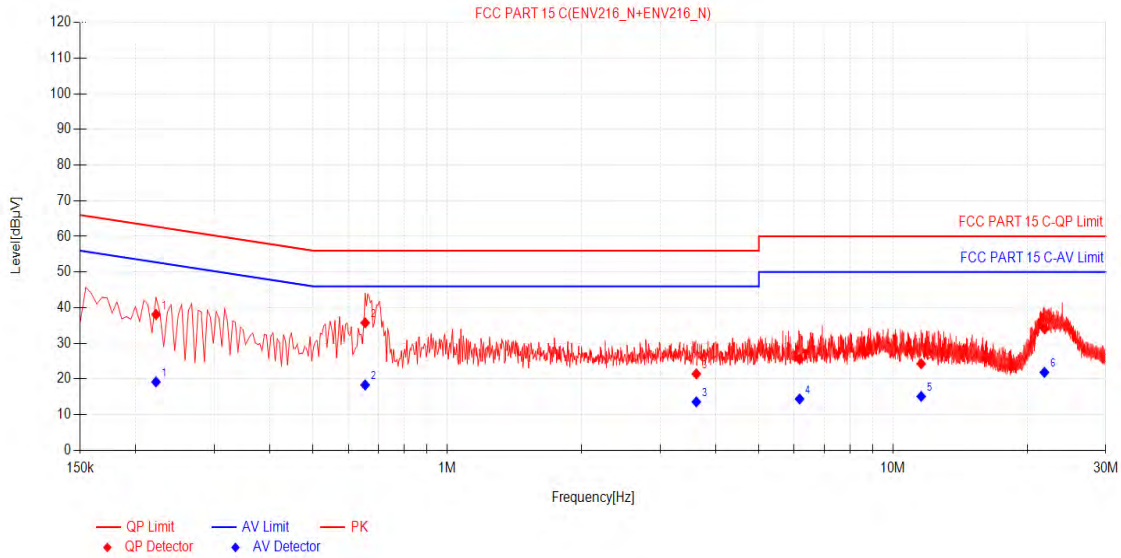


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Phase: Neutral



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	27.39	38.08	62.74	24.66	8.49	19.18	52.74	33.56	PASS
2	0.6540	10.76	25.00	35.76	56.00	20.24	7.57	18.33	46.00	27.67	PASS
3	3.6195	10.69	10.74	21.43	56.00	34.57	2.90	13.59	46.00	32.41	PASS
4	6.1710	10.56	14.99	25.55	60.00	34.45	3.84	14.40	50.00	35.60	PASS
5	11.5665	10.65	13.63	24.28	60.00	35.72	4.46	15.11	50.00	34.89	PASS
6	21.8670	10.44	23.66	34.10	60.00	25.90	11.43	21.87	50.00	28.13	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

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: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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:

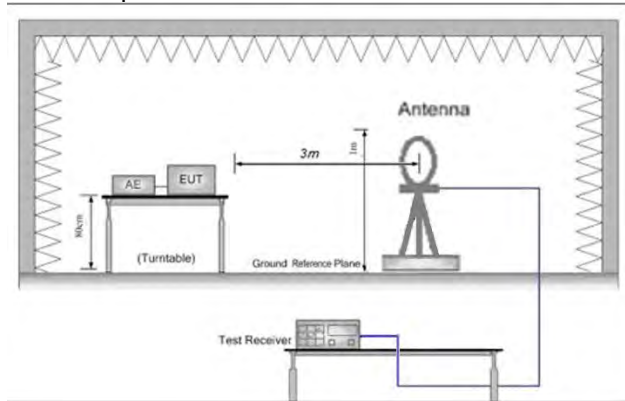


Figure 1. Below 30MHz

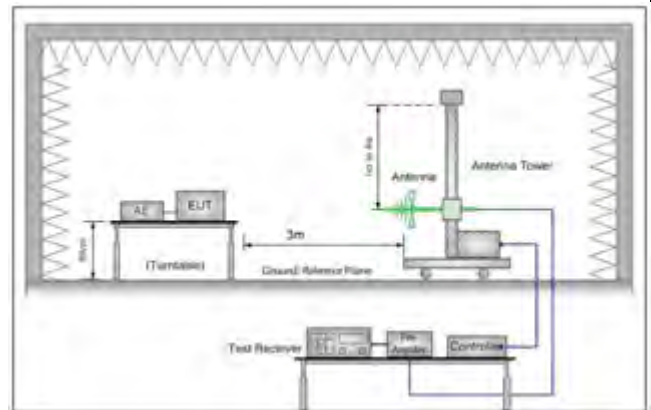


Figure 2. 30MHz to 1GHz

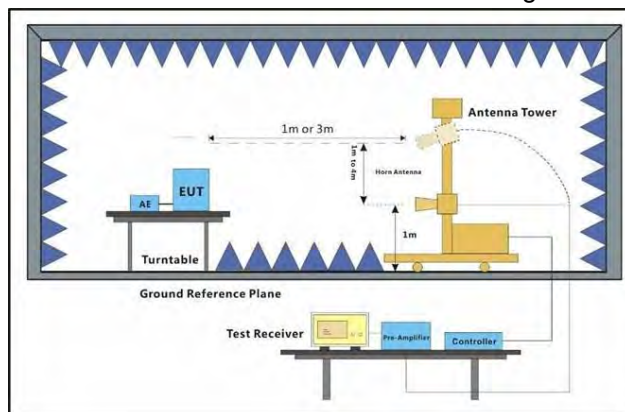


Figure 3. Above 1 GHz

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 <math>20 * \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq [3 * \text{RBW}]</math></li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq (\text{RBW} / 2)</math>. 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
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: <b>Appendix</b>	





### 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:

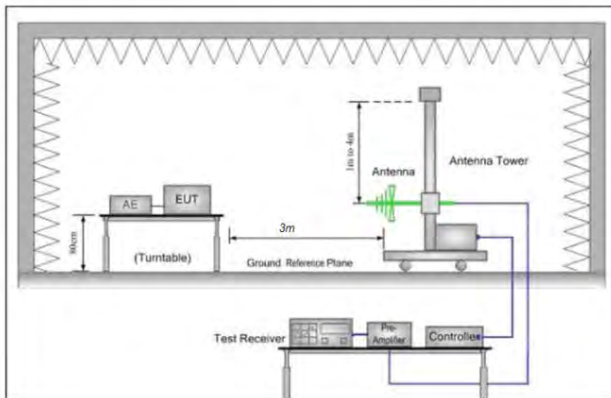


Figure 1. 30MHz to 1GHz

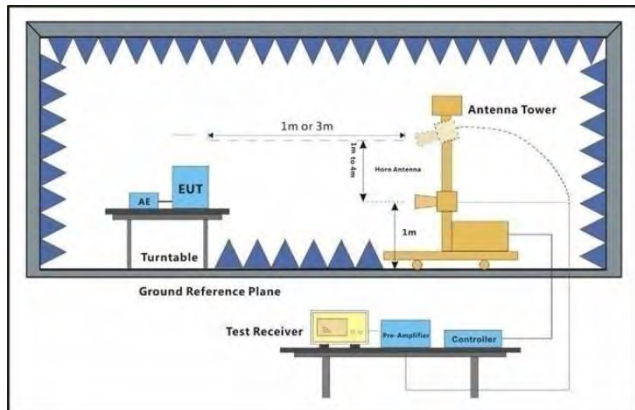


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
<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: <b>Appendix</b>	



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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 (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2021/12/22	2022/12/21
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 (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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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	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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# Appendix



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**DTS Bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant4	2412	7.64	2408.36	2416.00	≥0.5	PASS
		2437	8.16	2432.84	2441.00	≥0.5	PASS
		2462	8.12	2457.84	2465.96	≥0.5	PASS
11g	Ant4	2412	15.20	2404.32	2419.52	≥0.5	PASS
		2437	15.20	2429.32	2444.52	≥0.5	PASS
		2462	15.20	2454.32	2469.52	≥0.5	PASS
11n20SISO	Ant4	2412	15.20	2404.32	2419.52	≥0.5	PASS
		2437	15.20	2429.32	2444.52	≥0.5	PASS
		2462	15.20	2454.32	2469.52	≥0.5	PASS
11ax20SISO	Ant4	2412	18.04	2402.76	2420.80	≥0.5	PASS
		2437	18.12	2427.88	2446.00	≥0.5	PASS
		2462	15.72	2453.80	2469.52	≥0.5	PASS



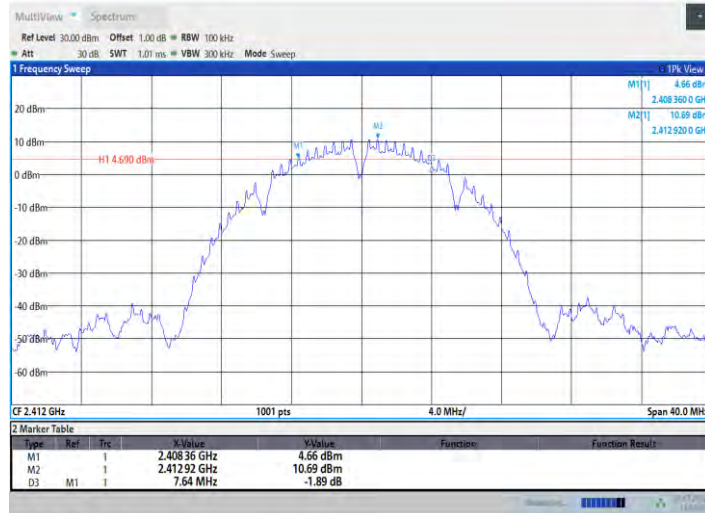
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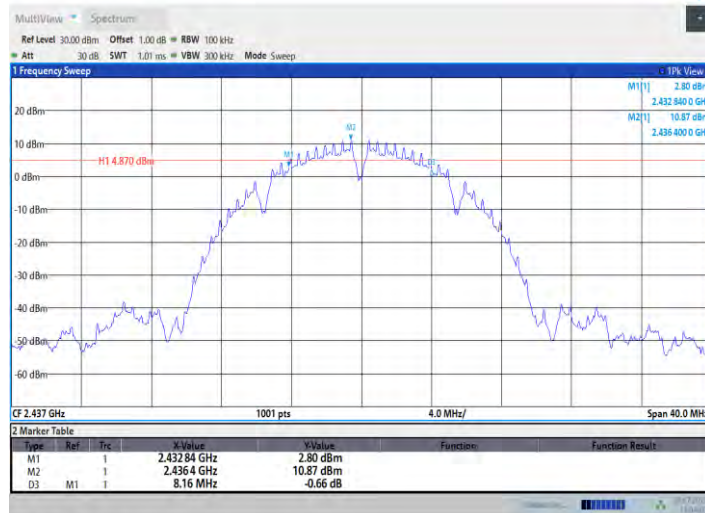
Test Graphs

11b Ant4 2412



14:31:48 20.07.2022

11b Ant4 2437



14:34:02 20.07.2022



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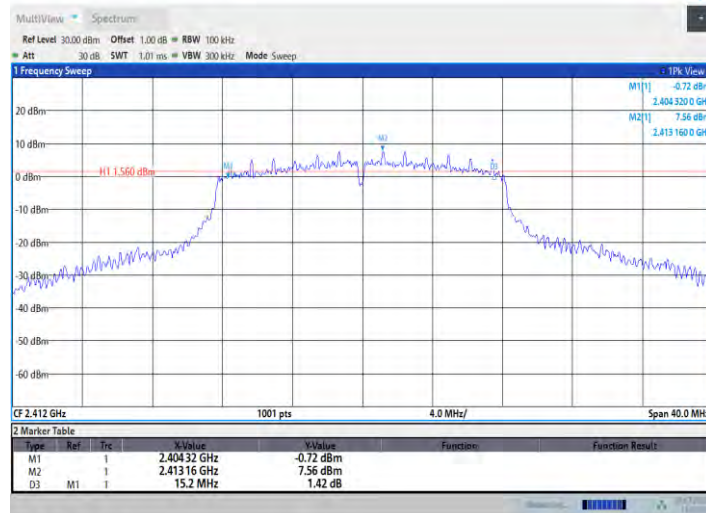
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11b Ant4 2462



14:35:54 20.07.2022

11g Ant4 2412



14:37:34 20.07.2022



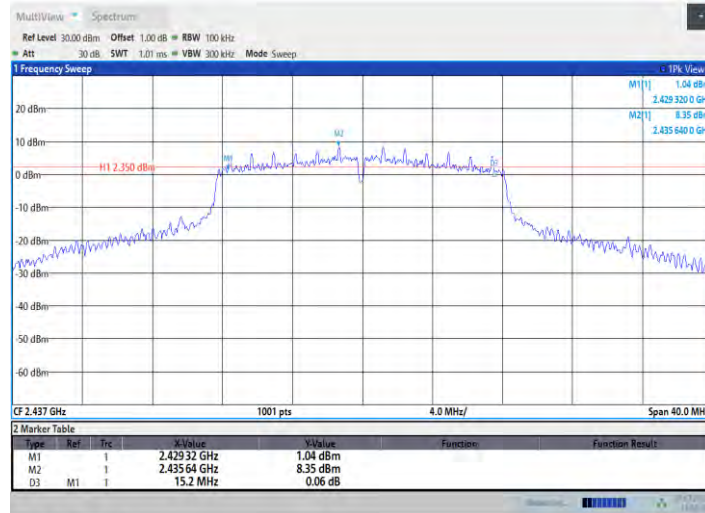
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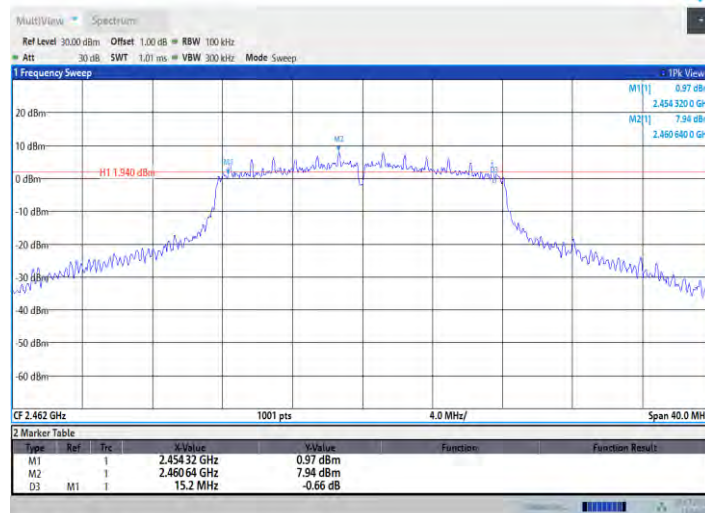
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11g\_Ant4\_2437



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11g\_Ant4\_2462



14:54:47 20.07.2022

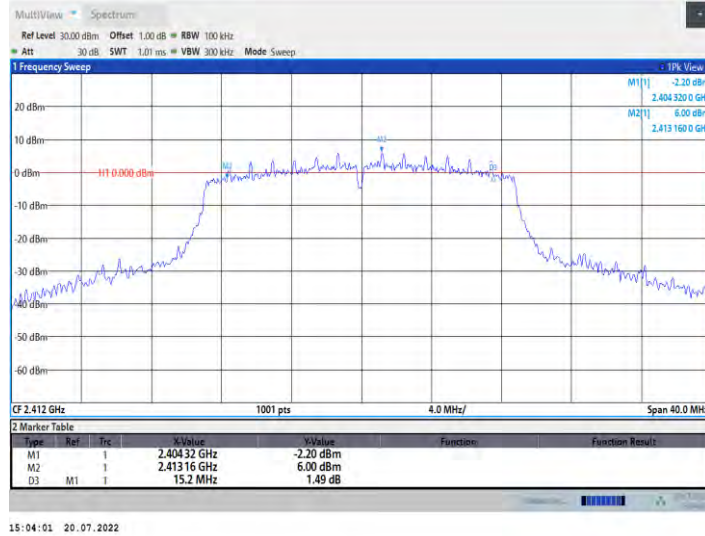


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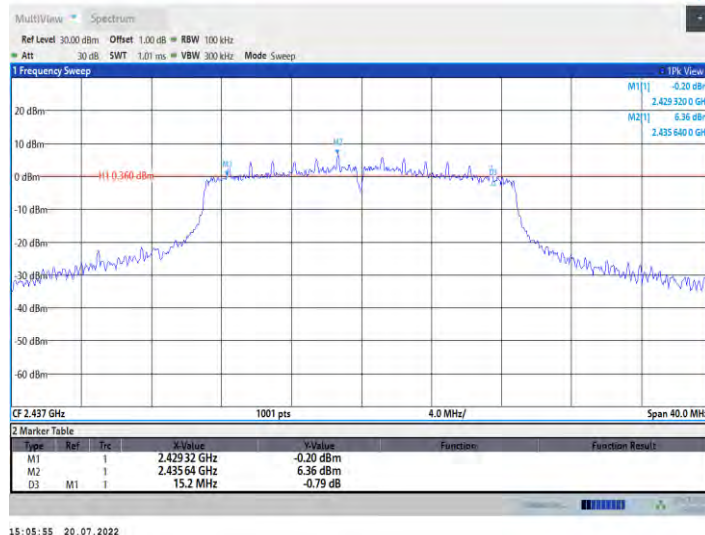
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11n20SISO\_Ant4\_2437



15:05:55 20.07.2022



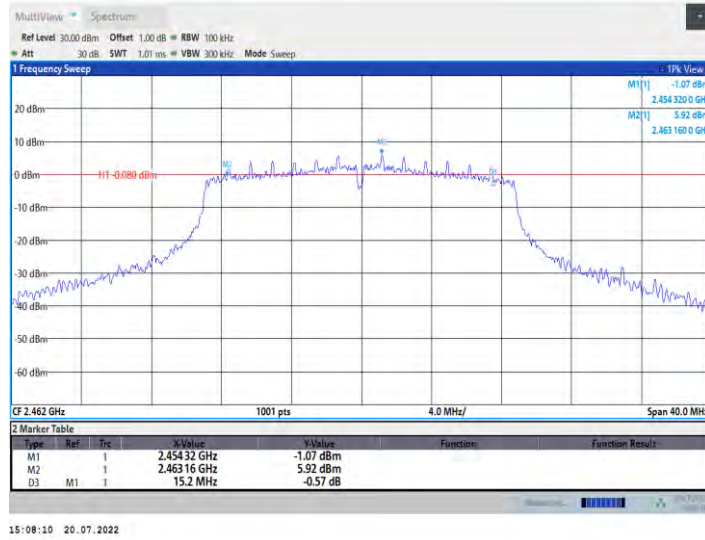
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11n20SISO\_Ant4\_2462



11ax20SISO\_Ant4\_2412

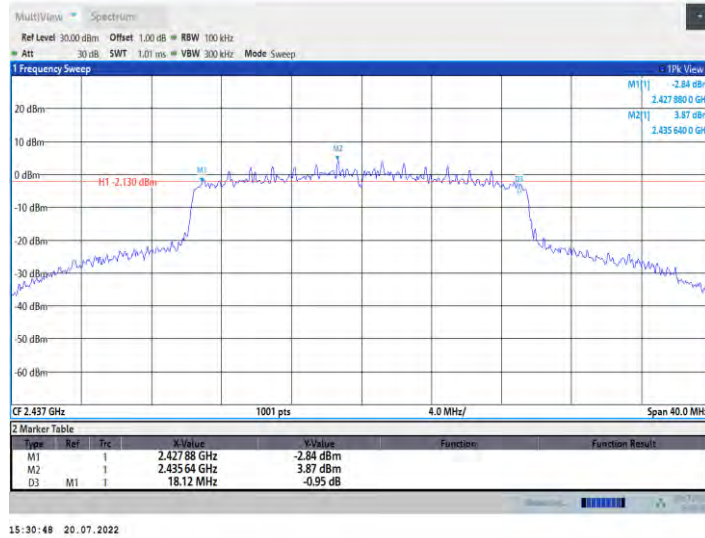


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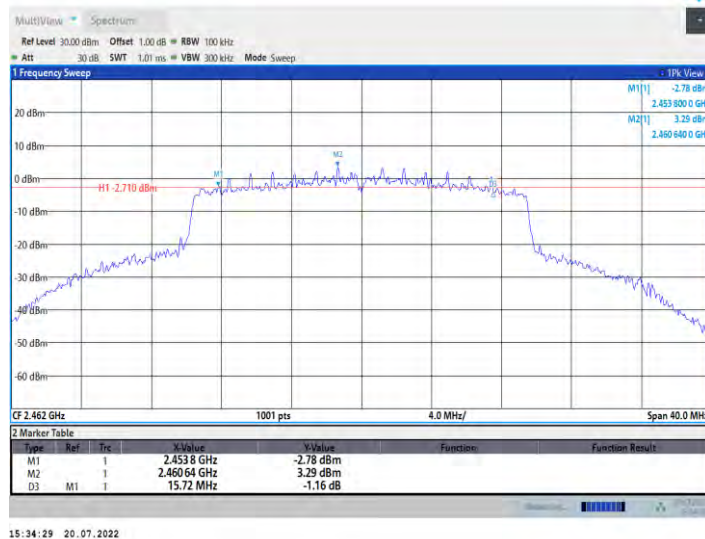
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11ax20SISO Ant4 2437



11ax20SISO Ant4 2462



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### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant4	2412	12.534	2405.830	2418.363	Reporting only
		2437	12.610	2430.607	2443.217	
		2462	12.668	2455.591	2468.259	
11g	Ant4	2412	17.342	2403.399	2420.741	
		2437	18.072	2427.732	2445.804	
		2462	17.105	2453.351	2470.456	
11n20SISO	Ant4	2412	18.079	2402.961	2421.039	
		2437	18.304	2427.737	2446.041	
		2462	18.067	2452.853	2470.920	
11ax20SISO	Ant4	2412	18.882	2402.550	2421.432	
		2437	19.133	2427.351	2446.484	
		2462	19.055	2452.379	2471.434	



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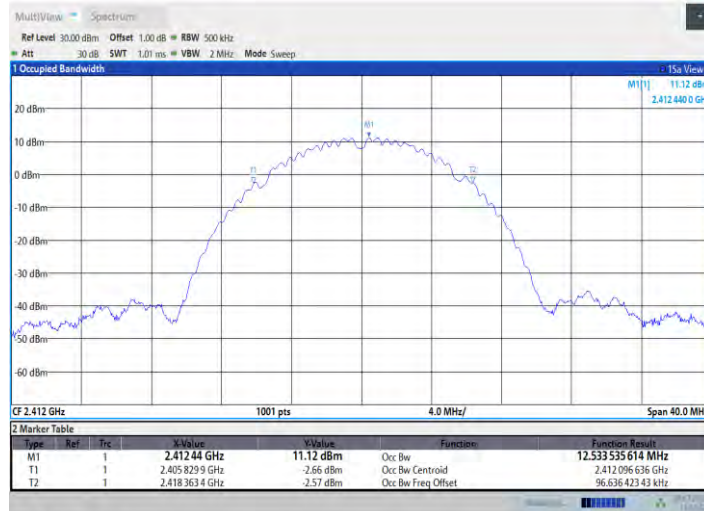
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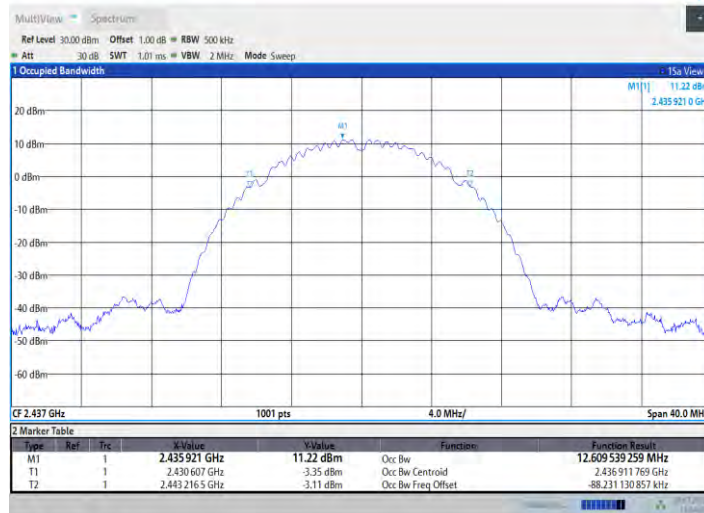
Test Graphs

11b Ant4 2412



14:31:54 20.07.2022

11b Ant4 2437



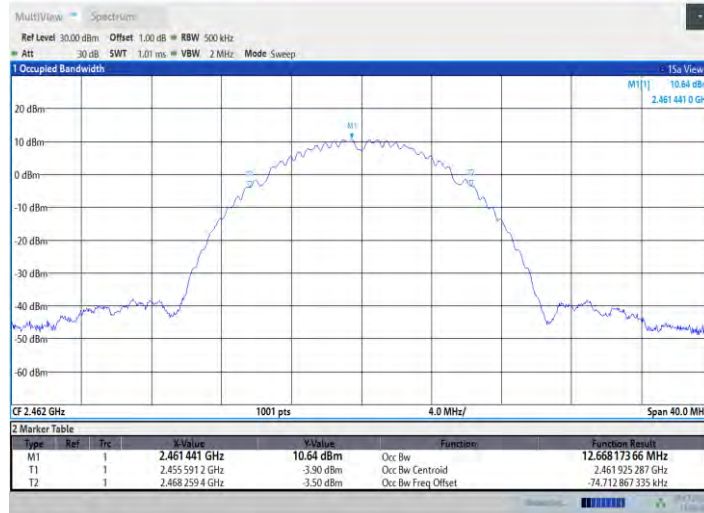
14:34:08 20.07.2022



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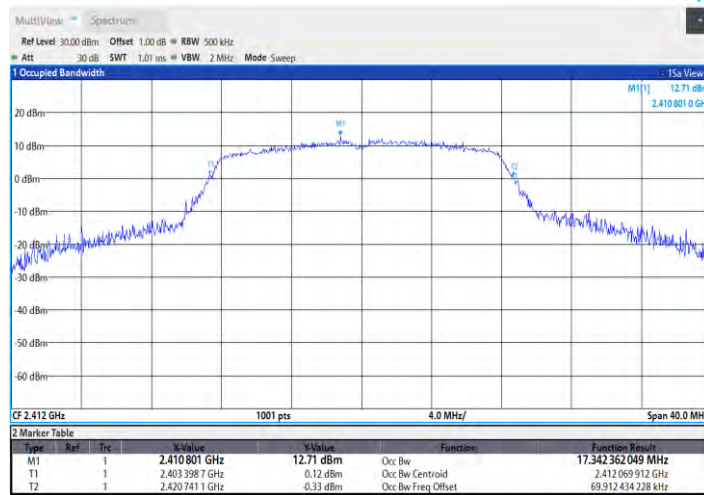
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11b Ant4 2462



14:36:01 20.07.2022

11g Ant4 2412



14:37:40 20.07.2022



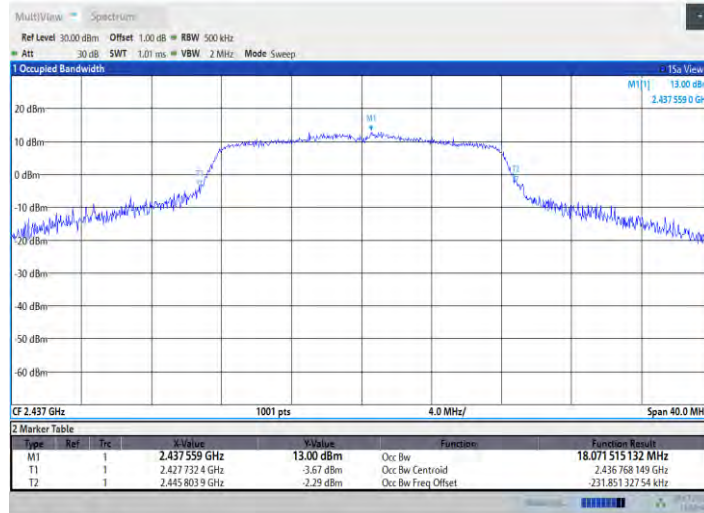
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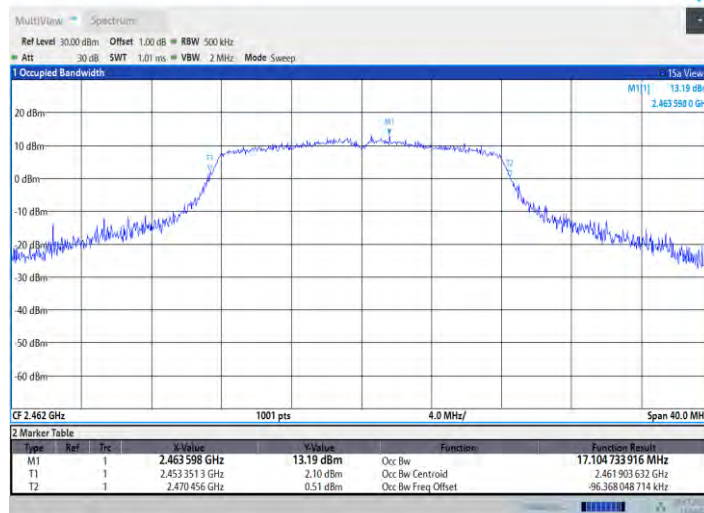
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11g Ant4\_2437



14:52:45 20.07.2022

11g Ant4\_2462



14:54:54 20.07.2022



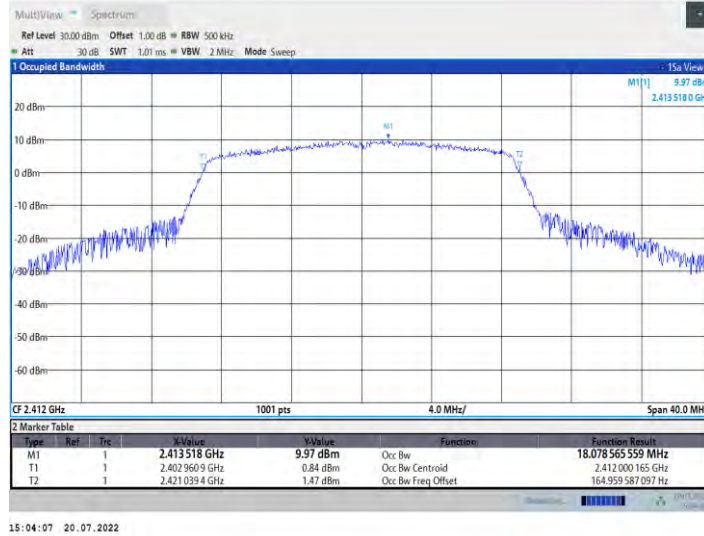
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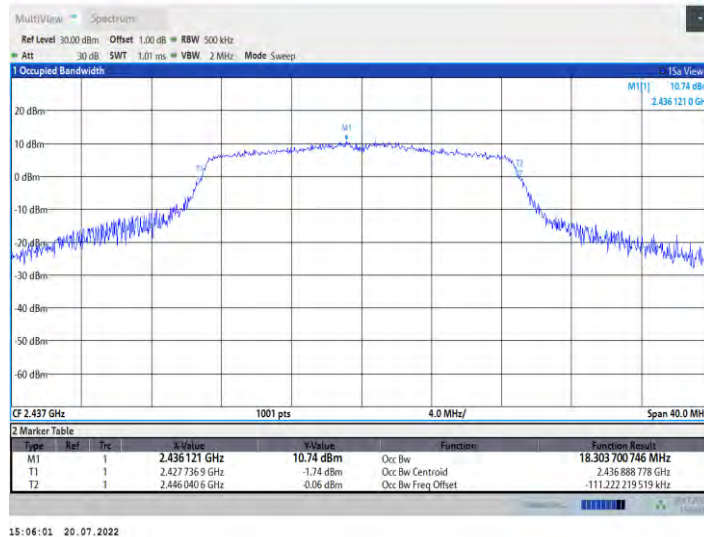
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11n20SISO\_Ant4\_2412



11n20SISO\_Ant4\_2437

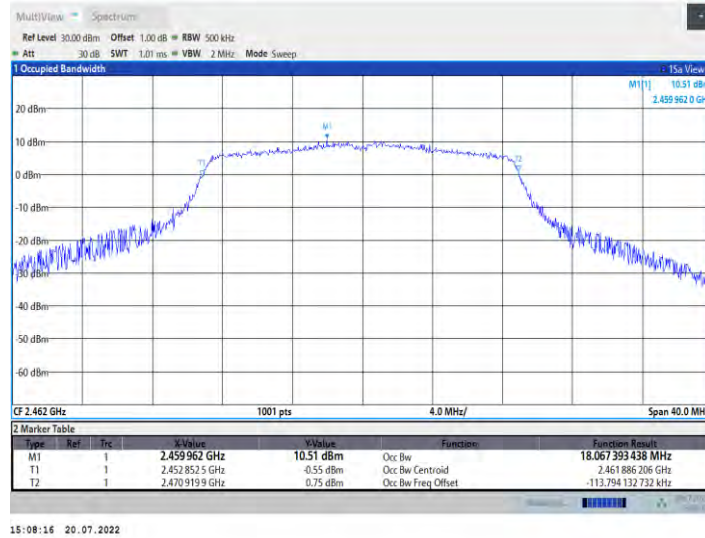


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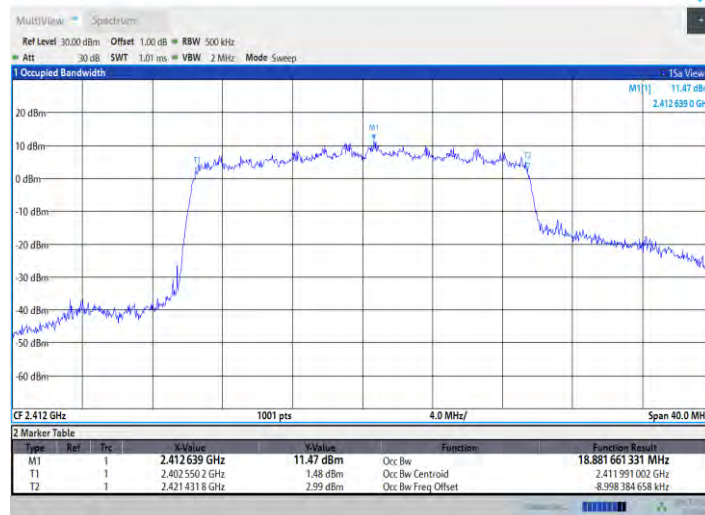
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11n20SISO\_Ant4\_2462



15:08:16 20.07.2022

11ax20SISO\_Ant4\_2412



15:25:37 20.07.2022



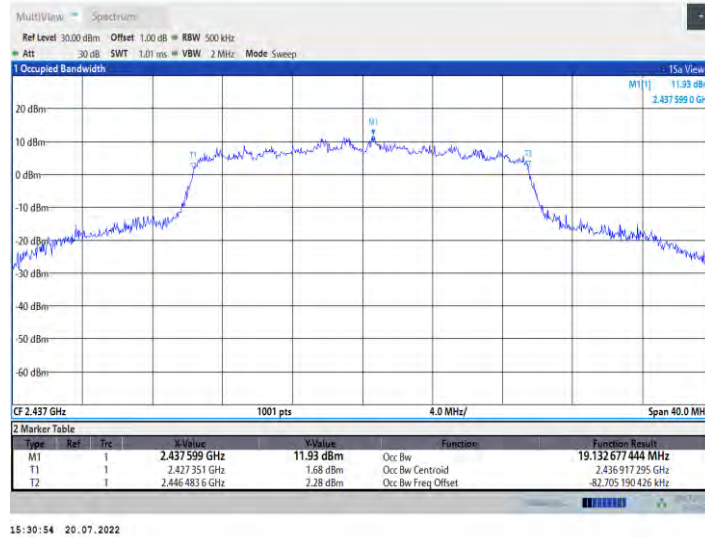
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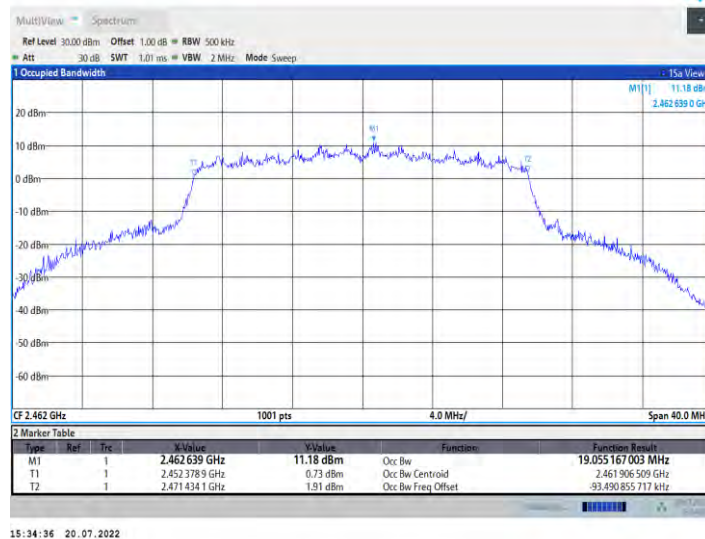
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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant4	2412	20.56	≤30.00	PASS
		2437	20.89	≤30.00	PASS
		2462	20.21	≤30.00	PASS
11g	Ant4	2412	23.89	≤30.00	PASS
		2437	23.18	≤30.00	PASS
		2462	23.72	≤30.00	PASS
11n20SISO	Ant4	2412	23.92	≤30.00	PASS
		2437	23.12	≤30.00	PASS
		2462	23.66	≤30.00	PASS
11ax20SISO	Ant4	2412	23.36	≤30.00	PASS
		2437	23.22	≤30.00	PASS
		2462	23.13	≤30.00	PASS



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**Maximum power spectral density  
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant4	2412	-3.00	≤8.00	PASS
		2437	-3.15	≤8.00	PASS
		2462	-4.62	≤8.00	PASS
11g	Ant4	2412	-5.96	≤8.00	PASS
		2437	-6.08	≤8.00	PASS
		2462	-6.78	≤8.00	PASS
11n20SISO	Ant4	2412	-9.58	≤8.00	PASS
		2437	-8.58	≤8.00	PASS
		2462	-6.94	≤8.00	PASS
11ax20SISO	Ant4	2412	-12.82	≤8.00	PASS
		2437	-13.12	≤8.00	PASS
		2462	-13.43	≤8.00	PASS



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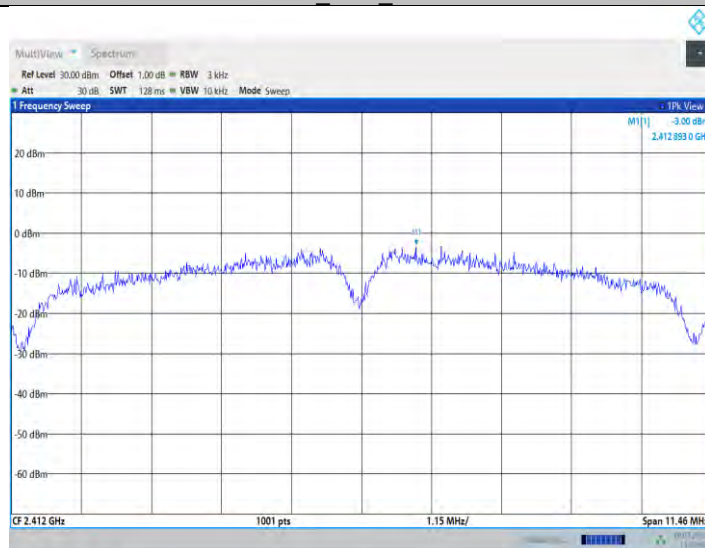
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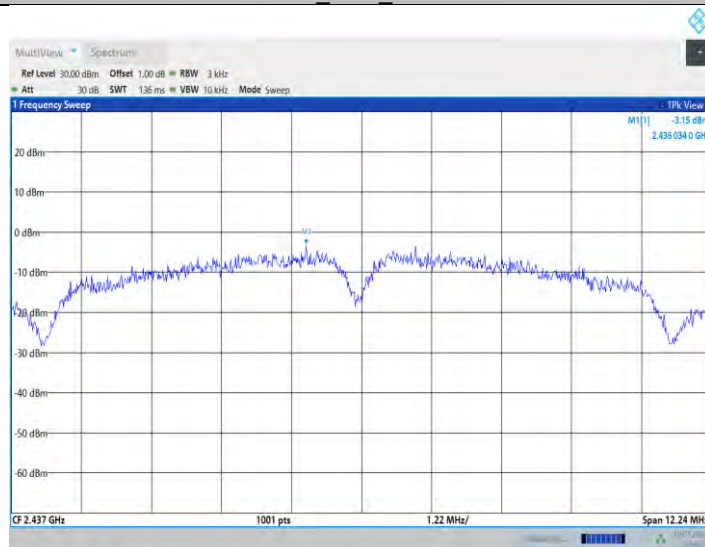
Test Graphs

11b Ant4 2412



14:32:08 20.07.2022

11b Ant4 2437

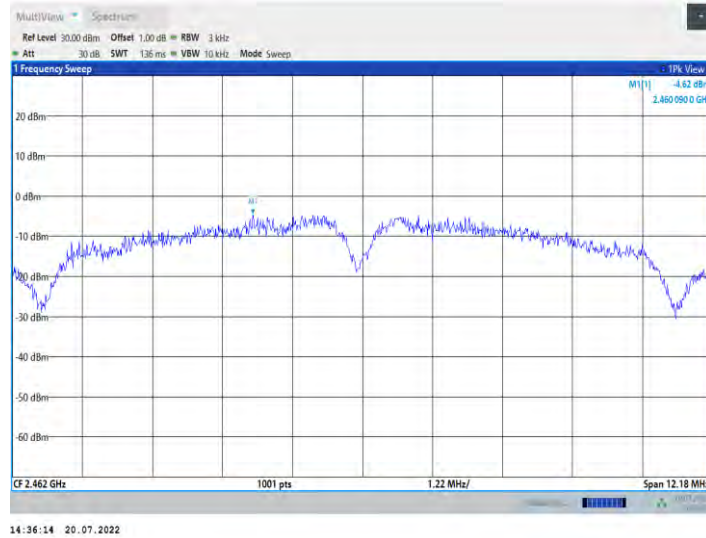


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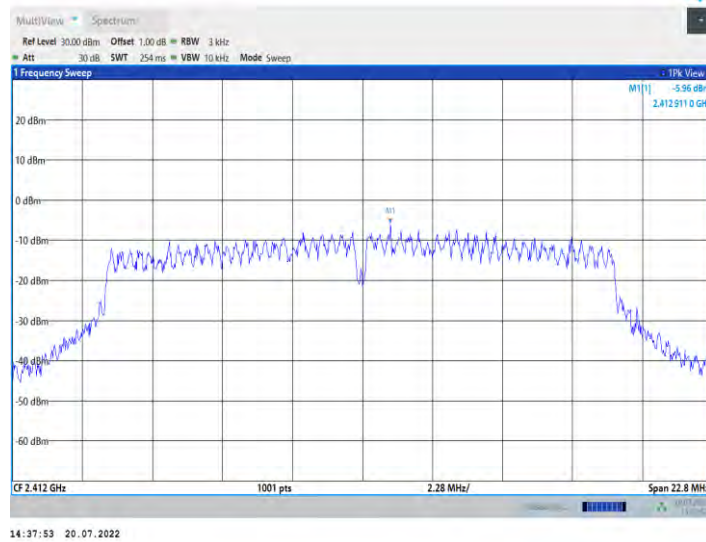


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11b Ant4 2462



11g Ant4 2412

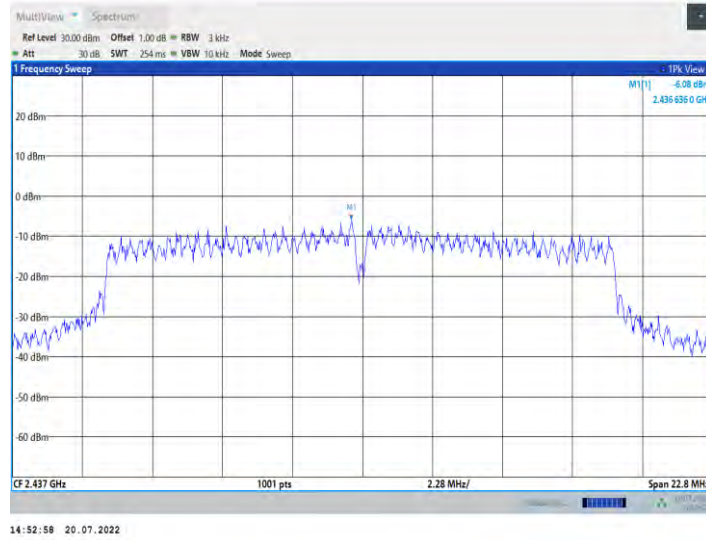


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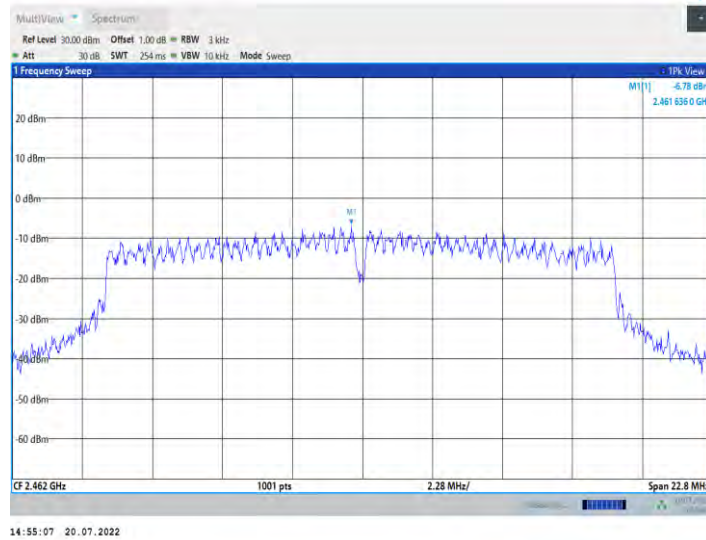
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11g Ant4\_2437

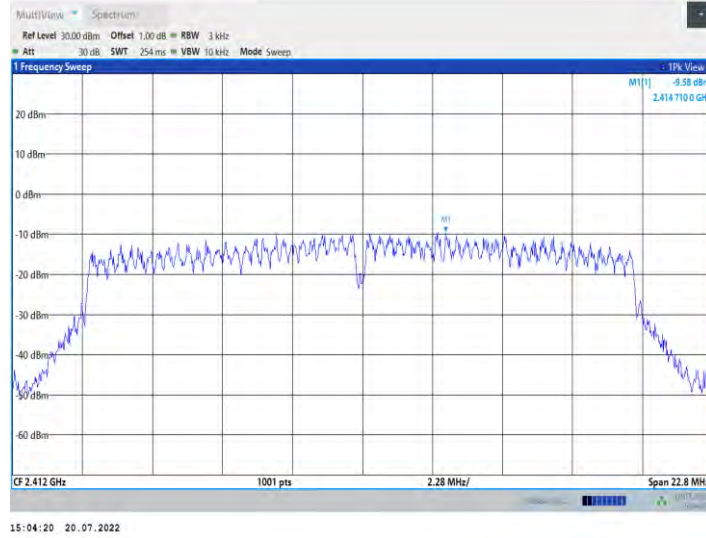


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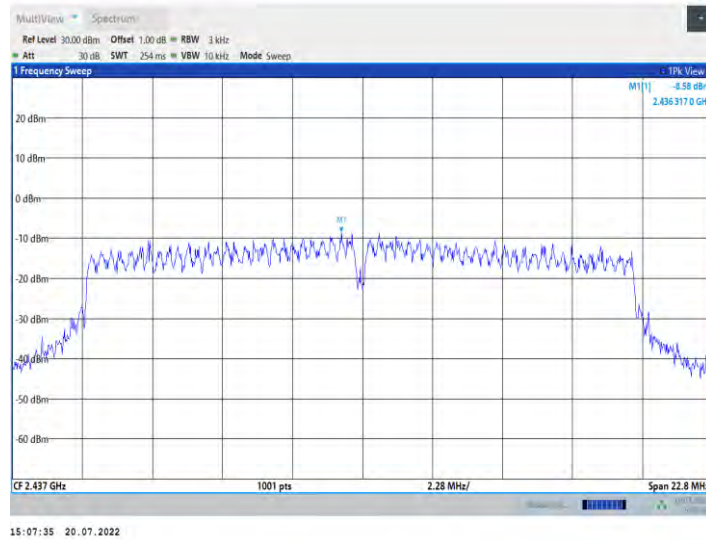


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11n20SISO\_Ant4\_2412



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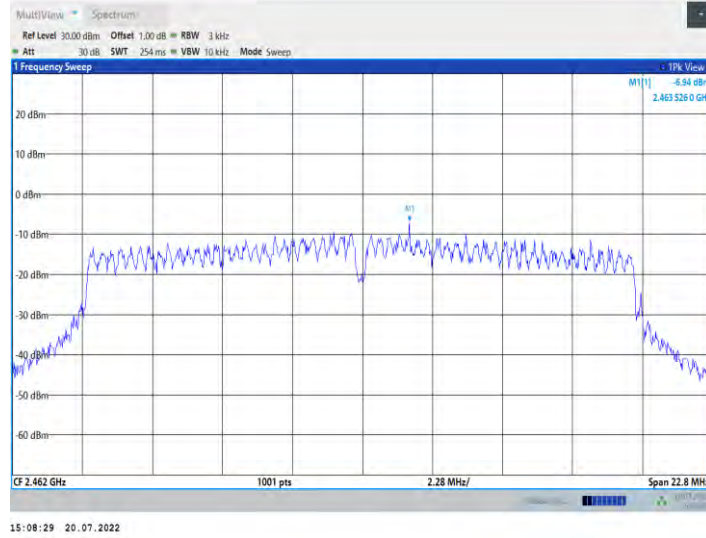


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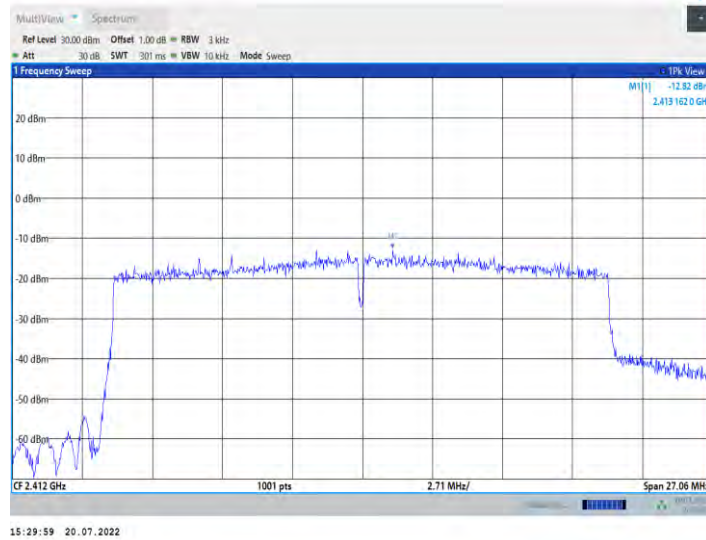
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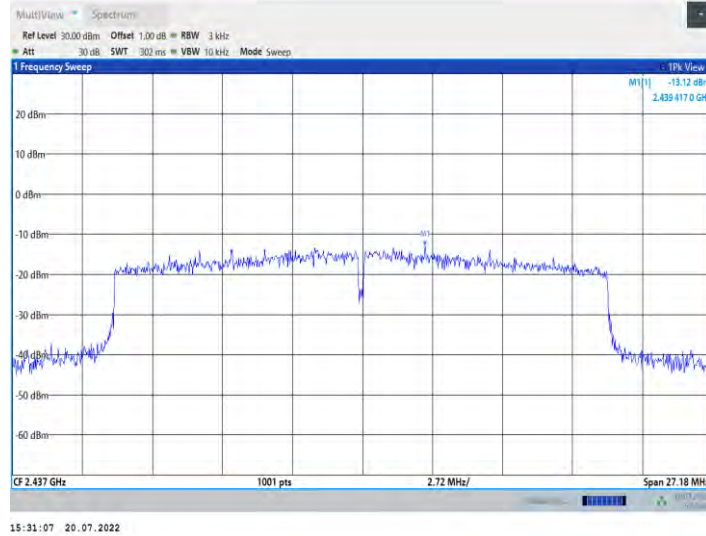


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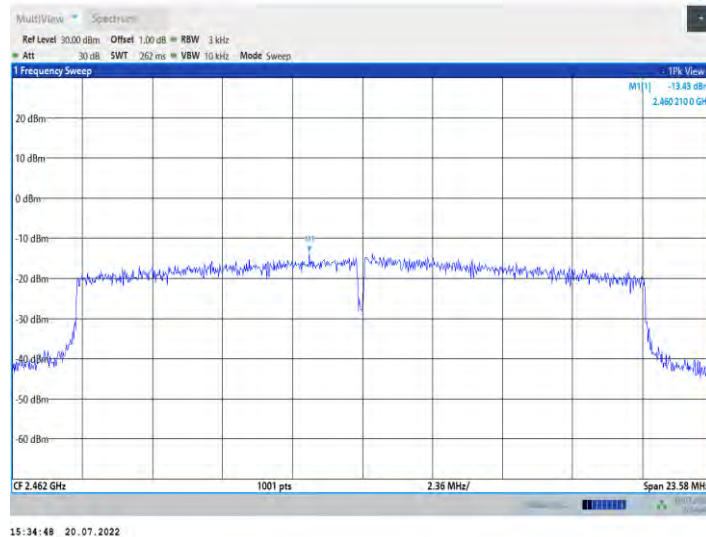
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11ax20SISO Ant4\_2437



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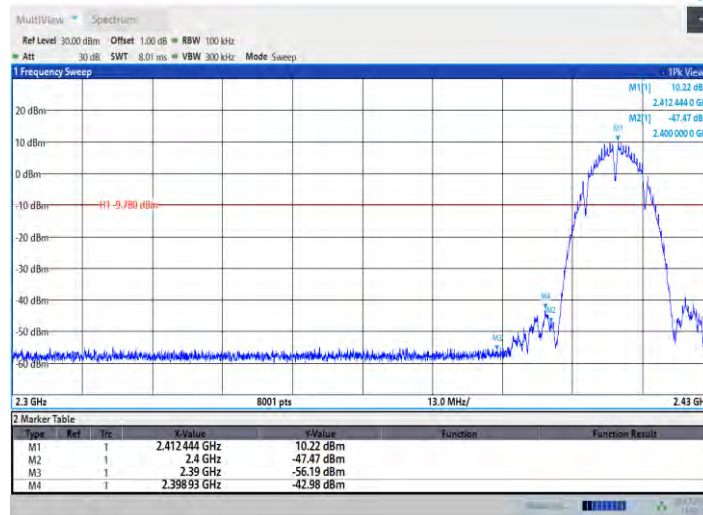
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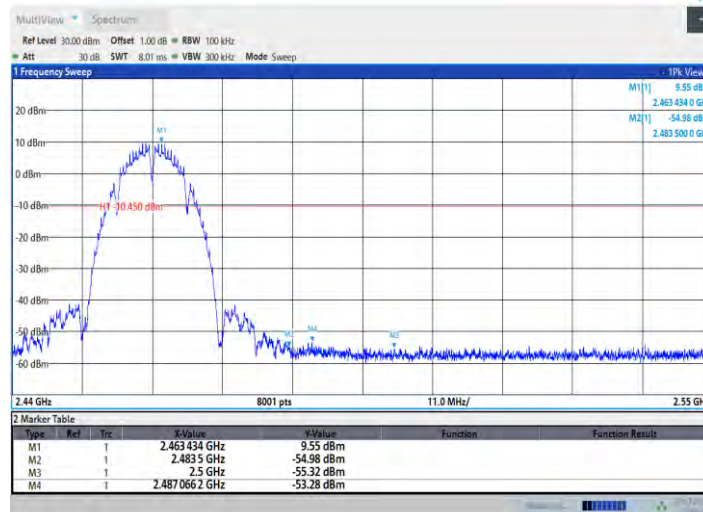
## Band edge measurements Test Graphs

11b\_Ant4\_Low\_2412



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11b\_Ant4\_High\_2462



14:36:20 20.07.2022

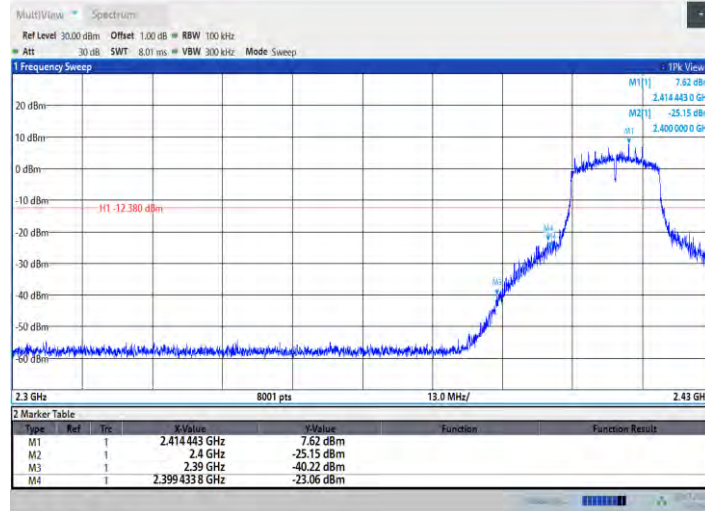


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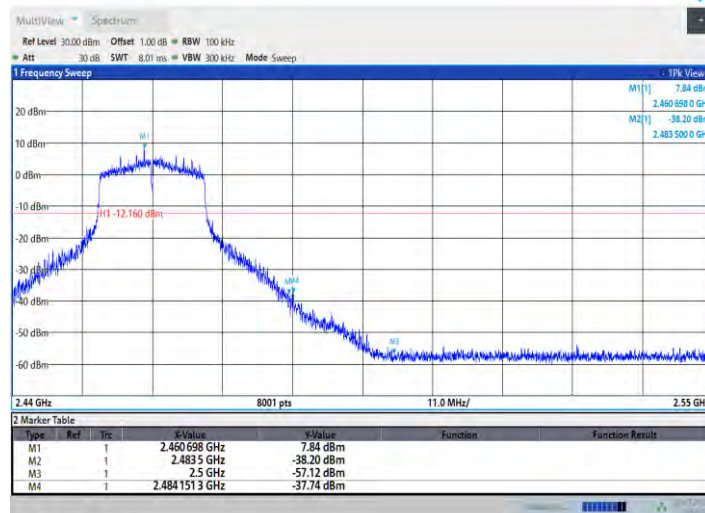
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11g Ant4 Low 2412



14:37:59 20.07.2022

11g Ant4 High 2462



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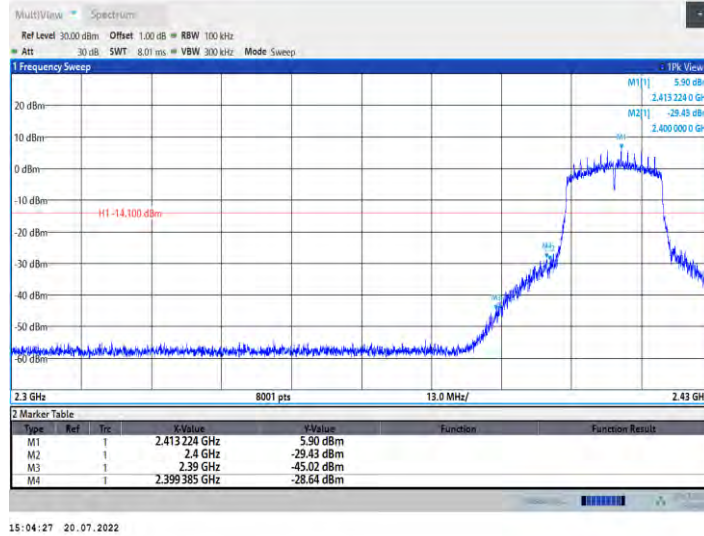
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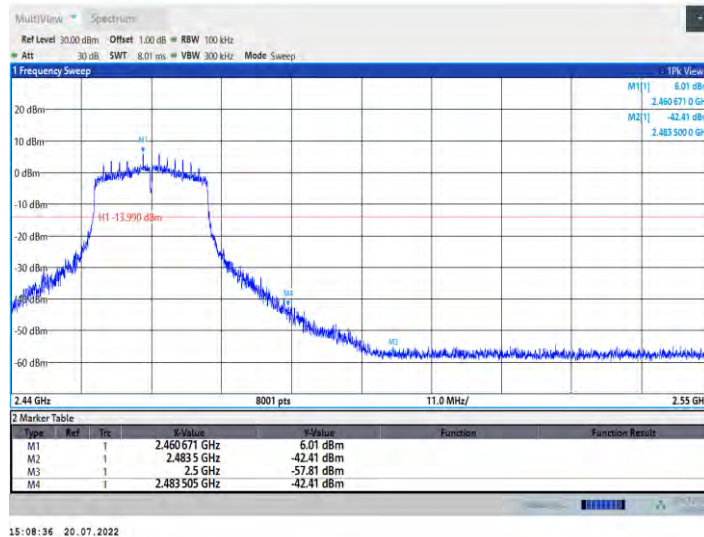
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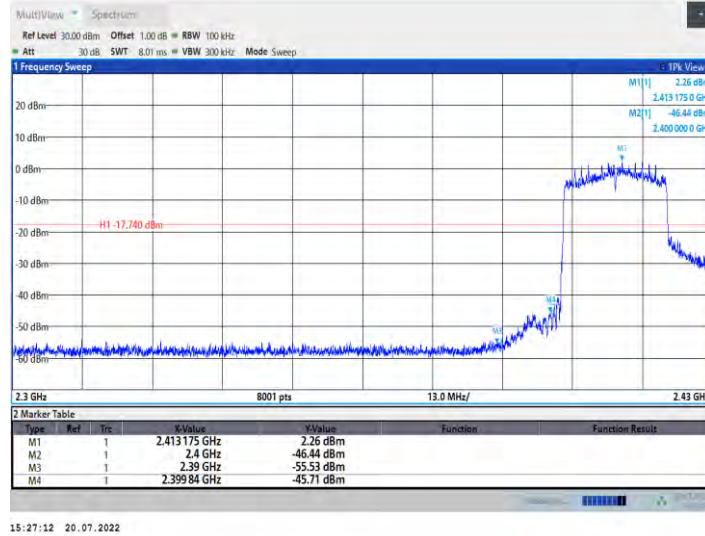


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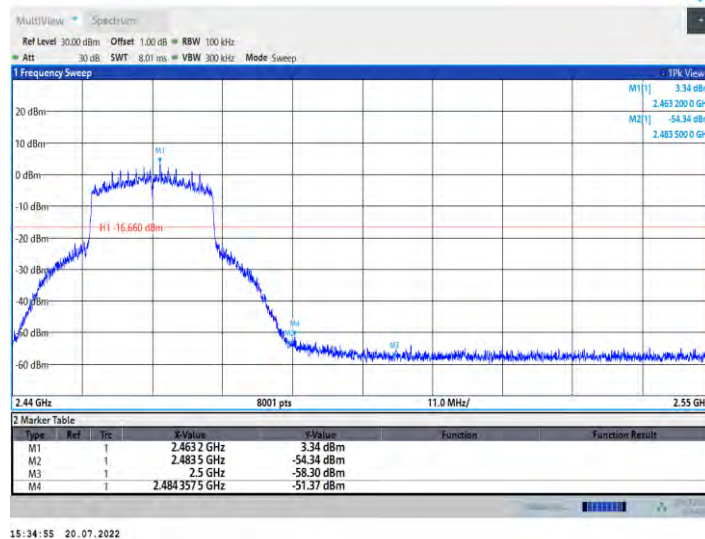
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11ax20SISO Ant4 Low 2412



11ax20SISO Ant4 High 2462



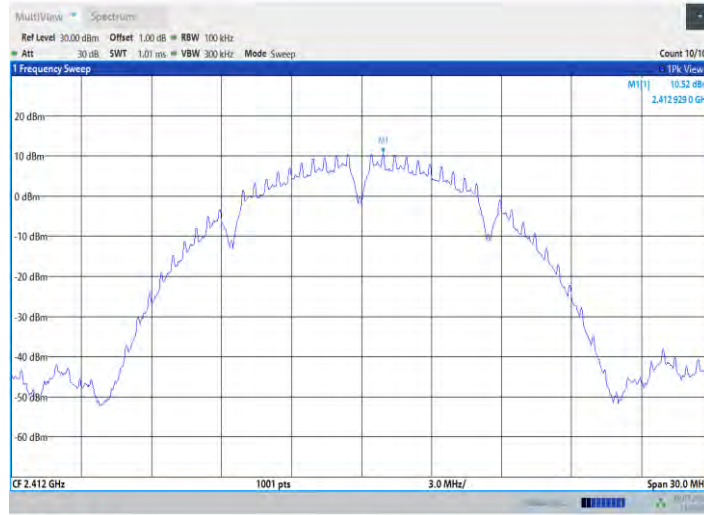
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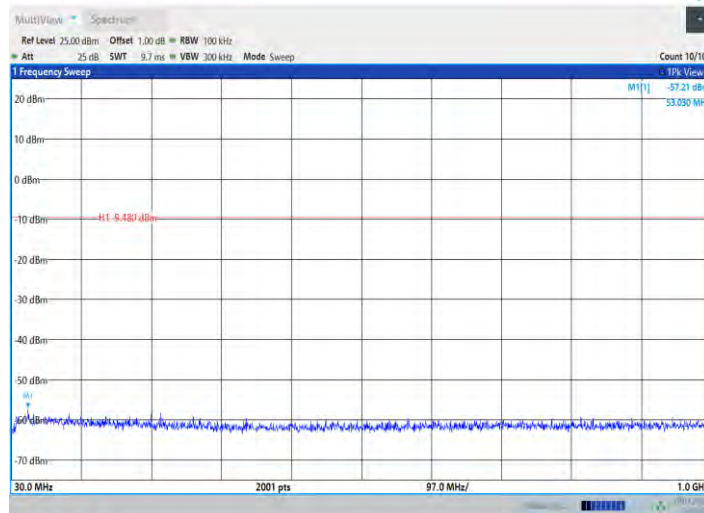
### Conducted Spurious Emission Test Graphs

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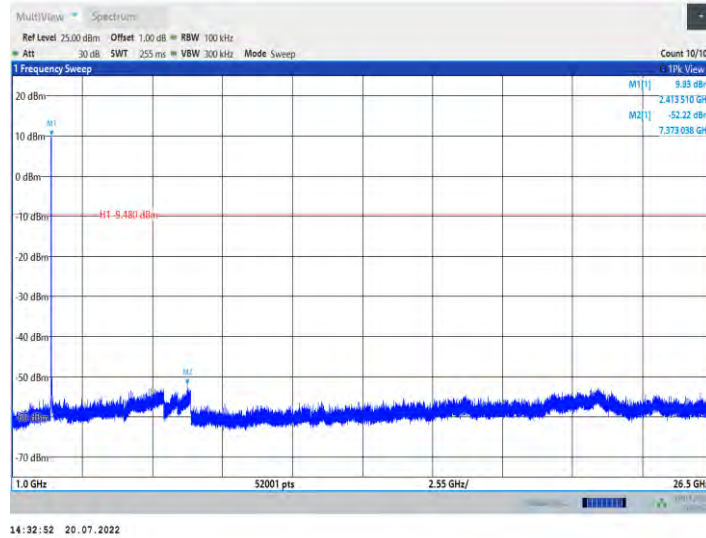


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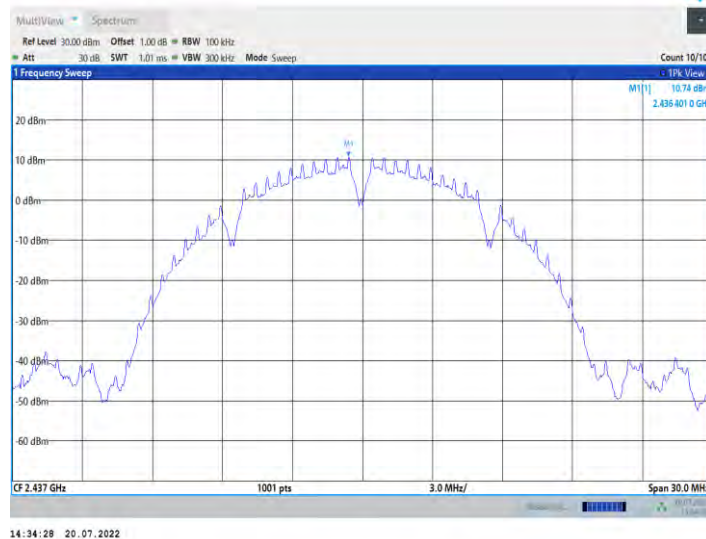
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11b\_Ant4\_2437\_0~Reference

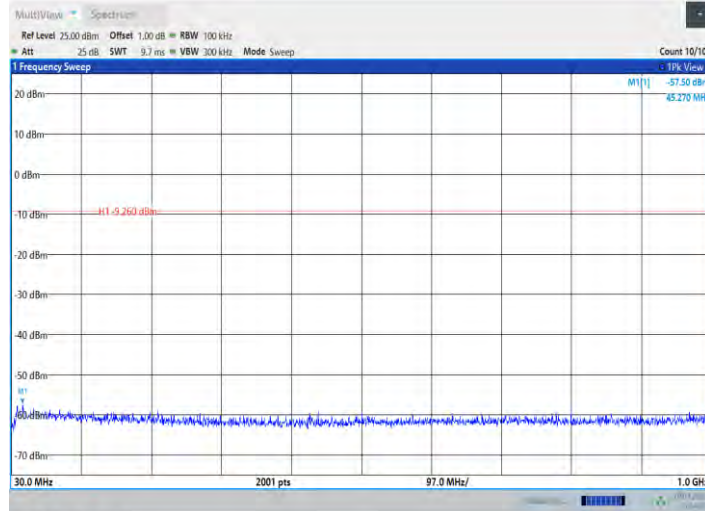


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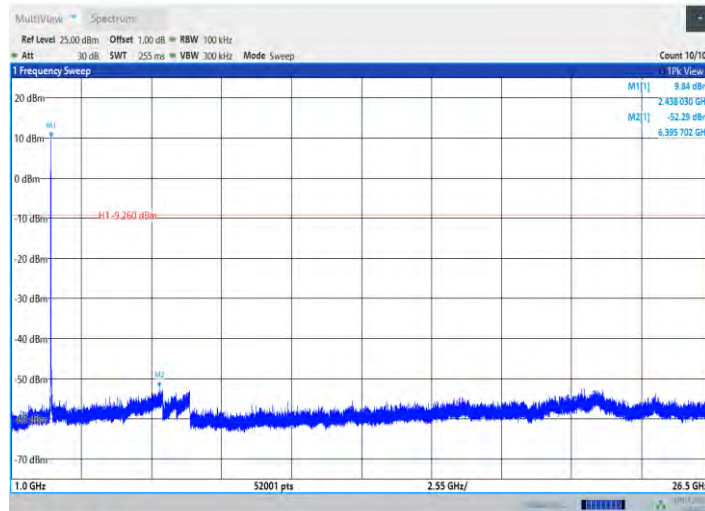
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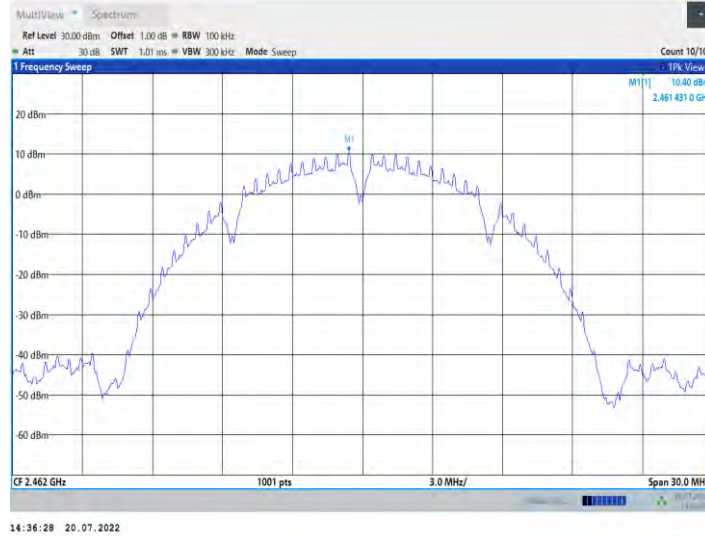


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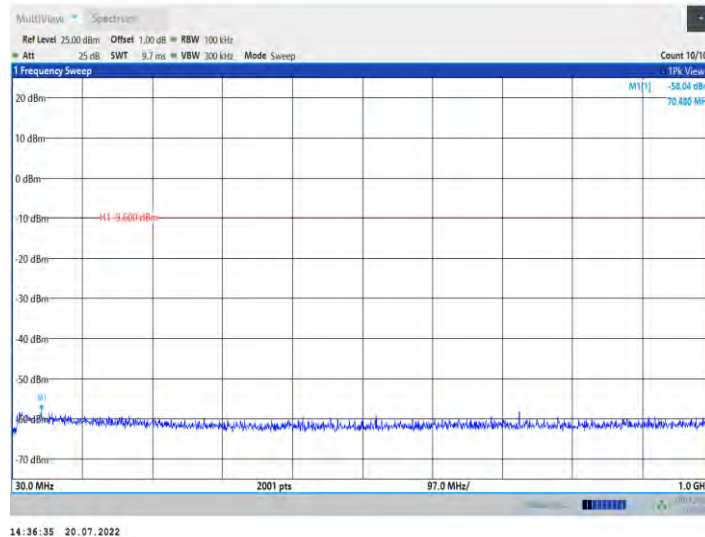
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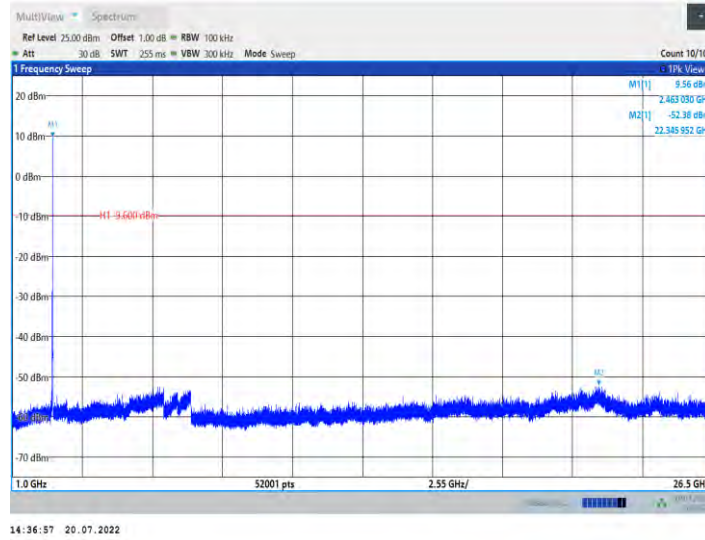


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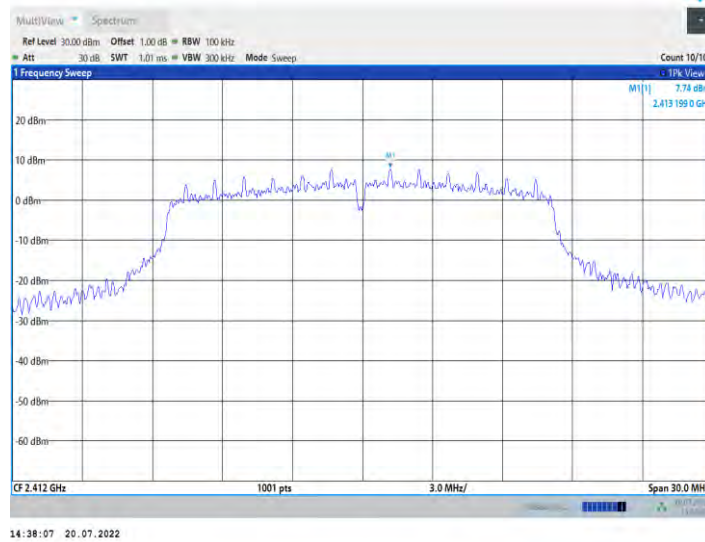
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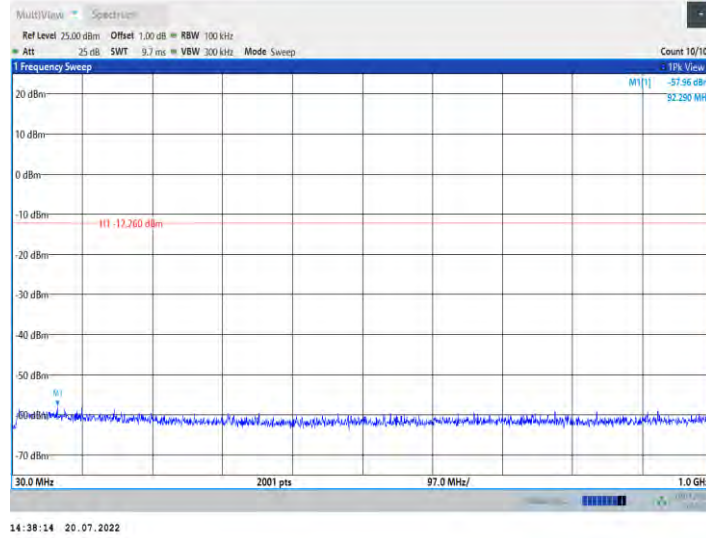


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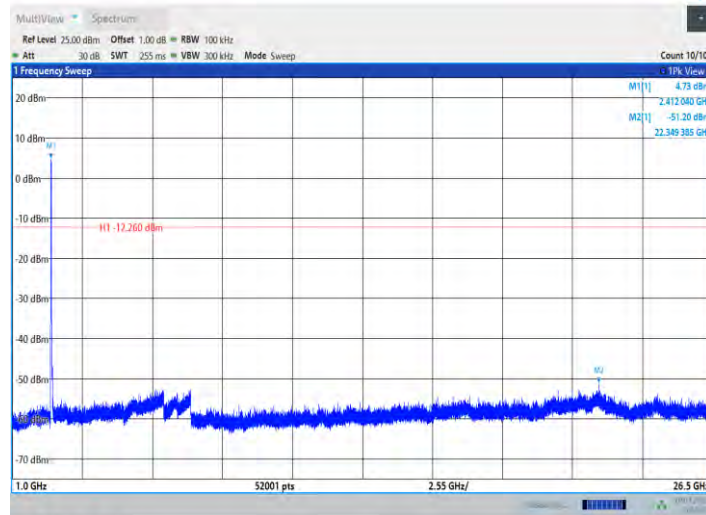
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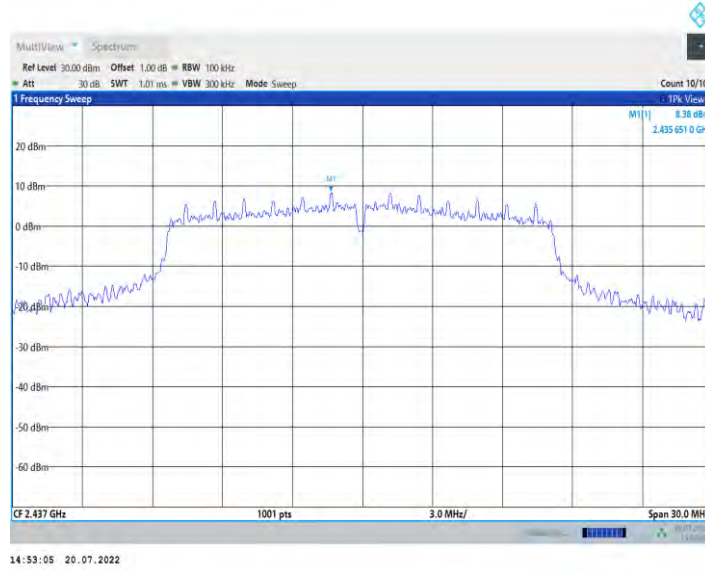
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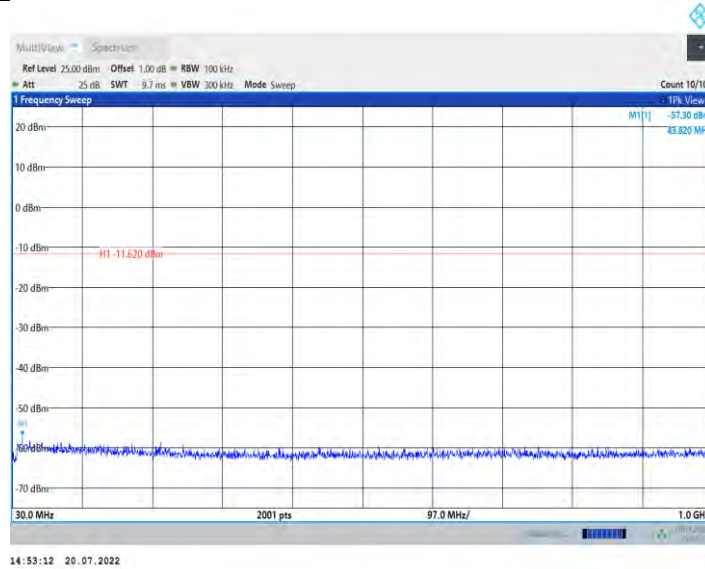
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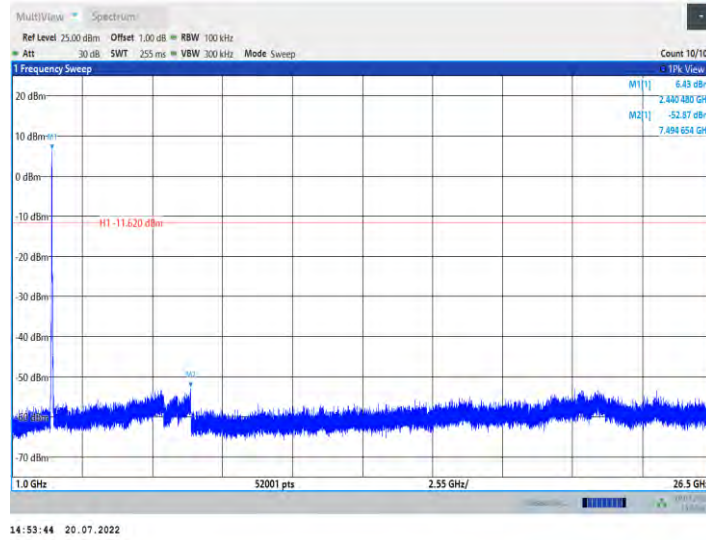


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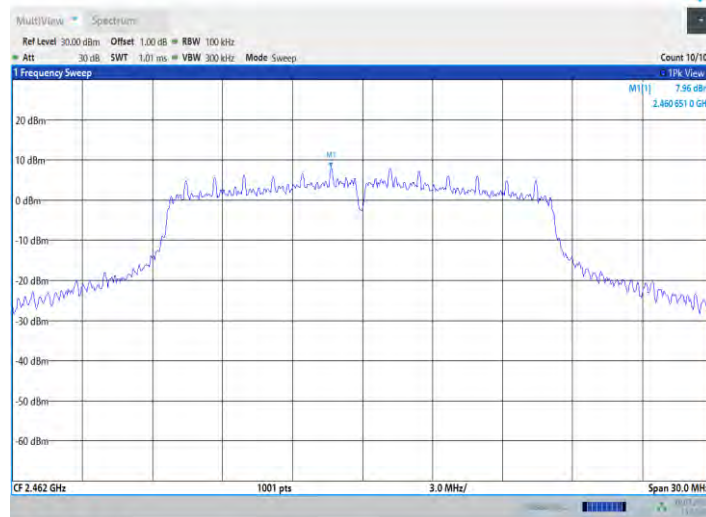
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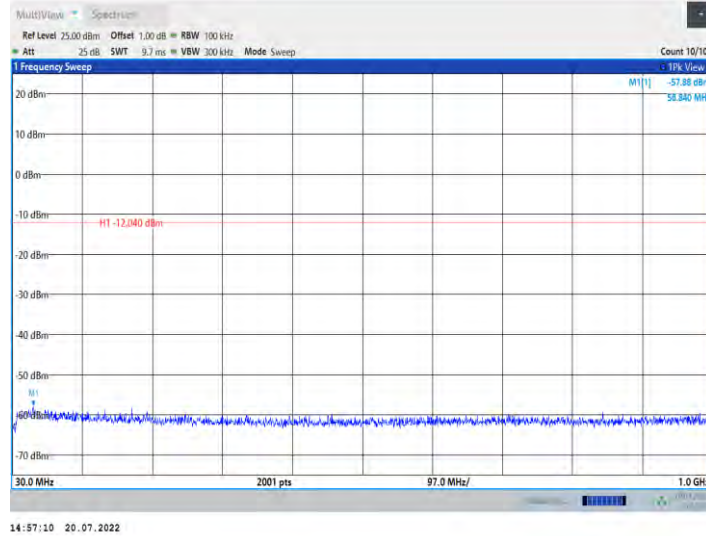


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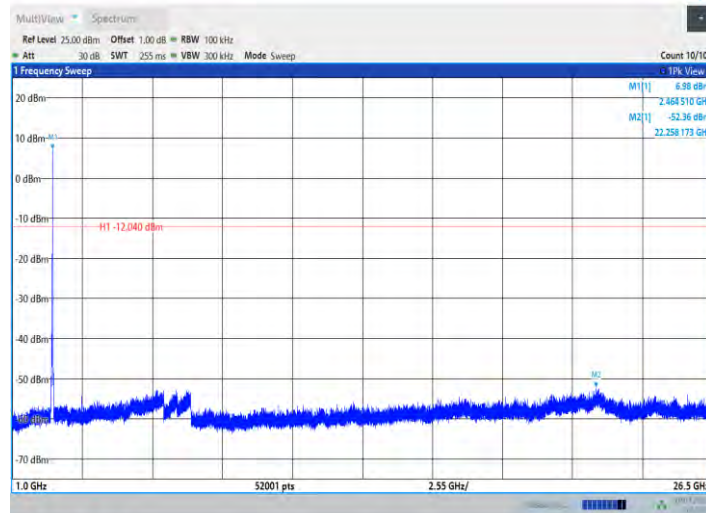
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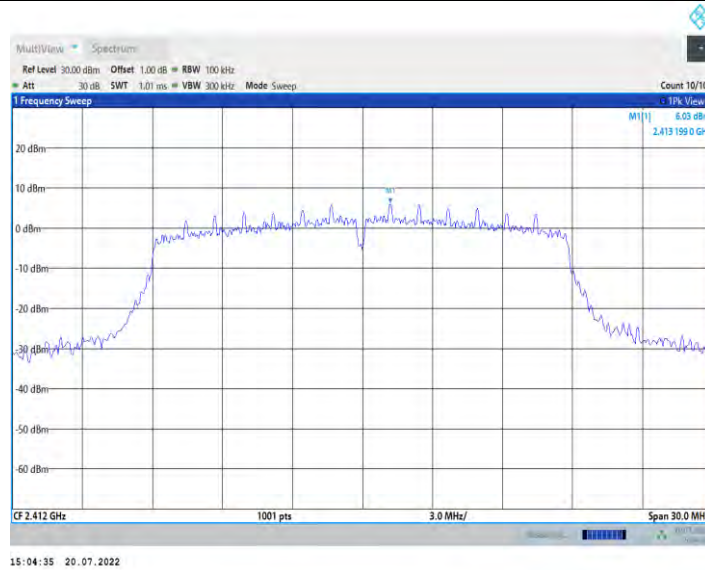


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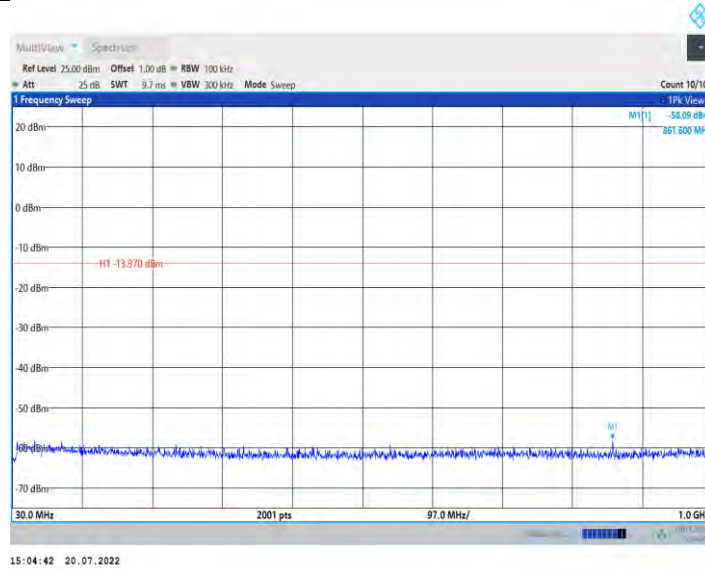
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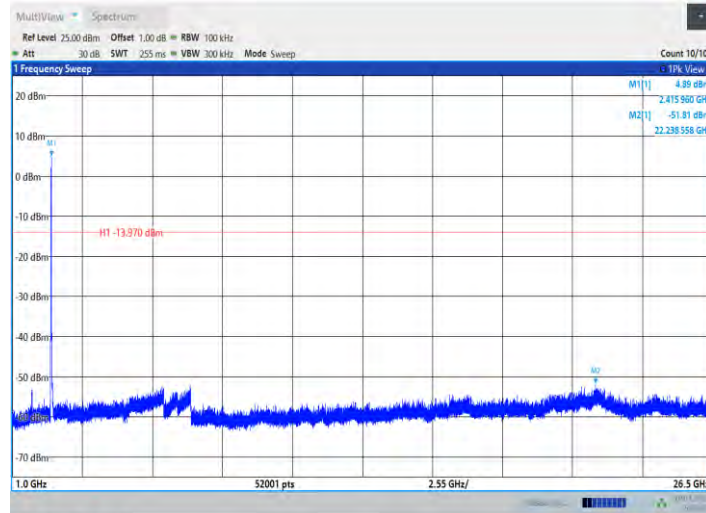
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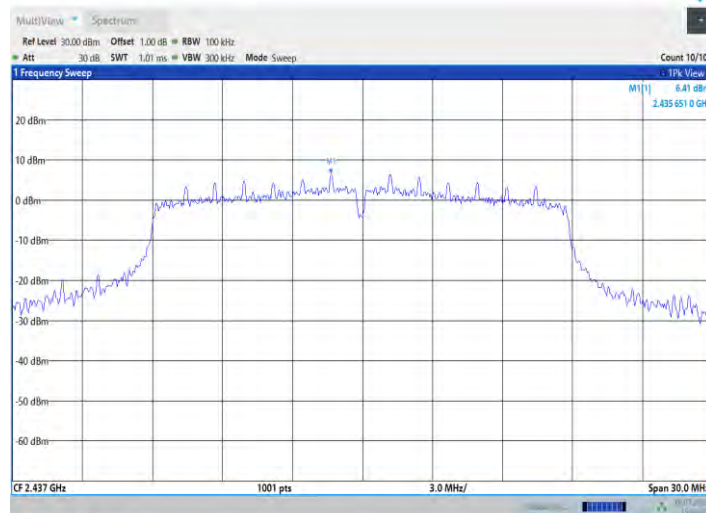
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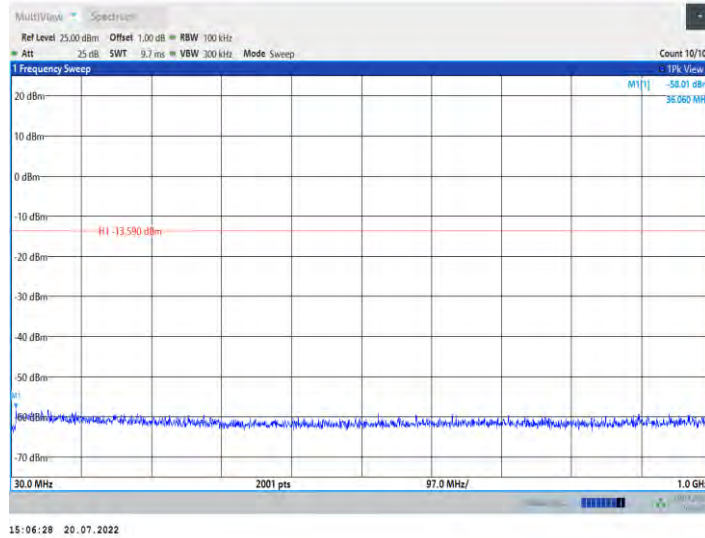
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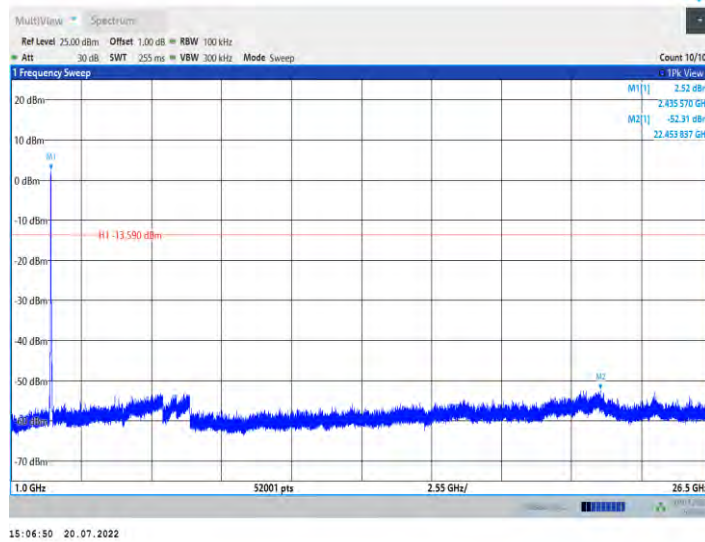
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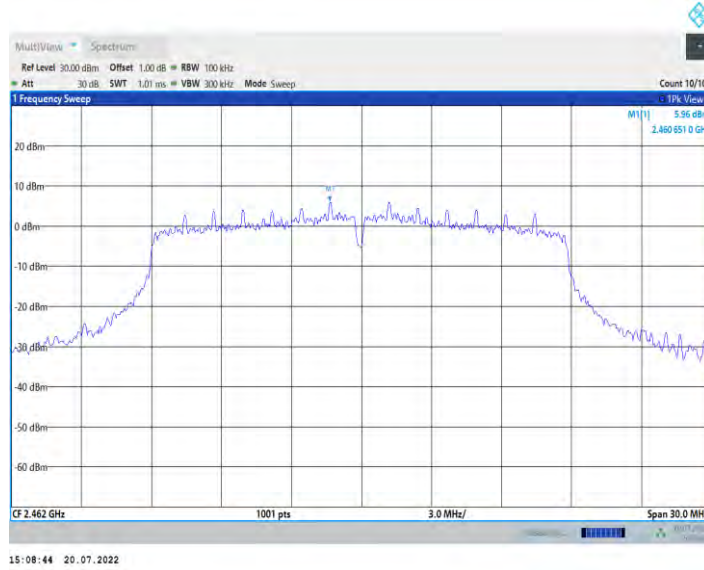


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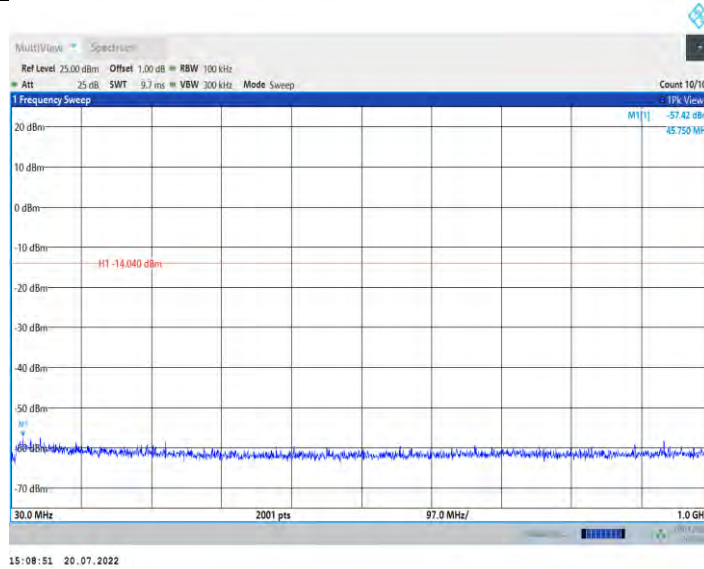
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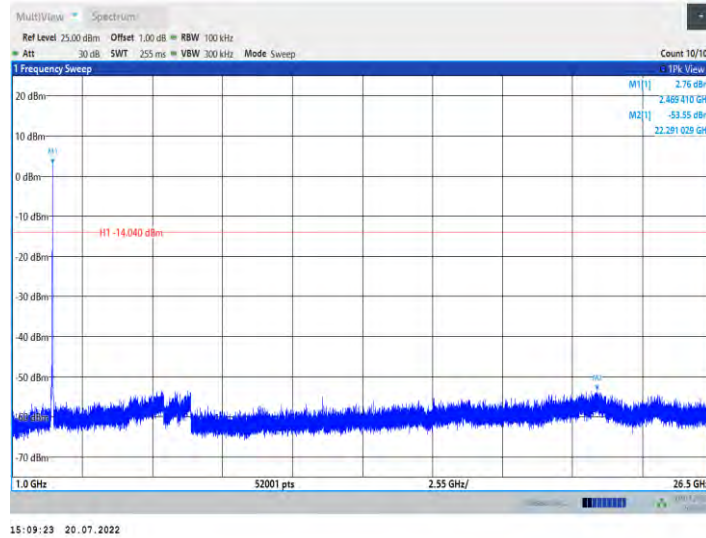
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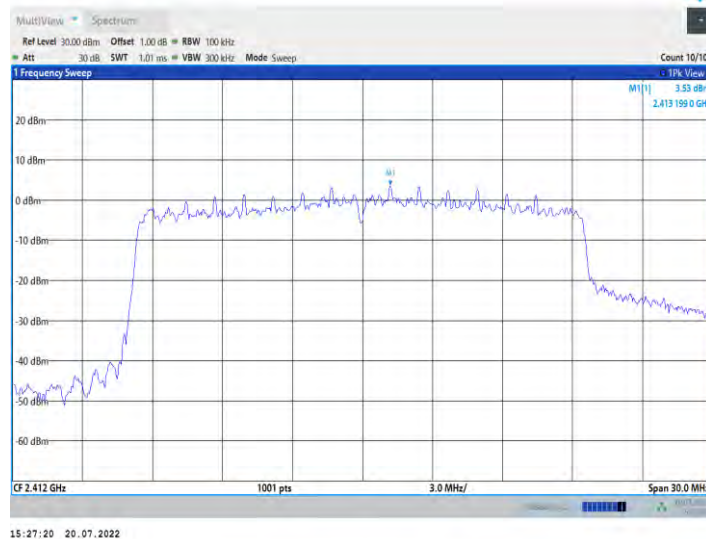
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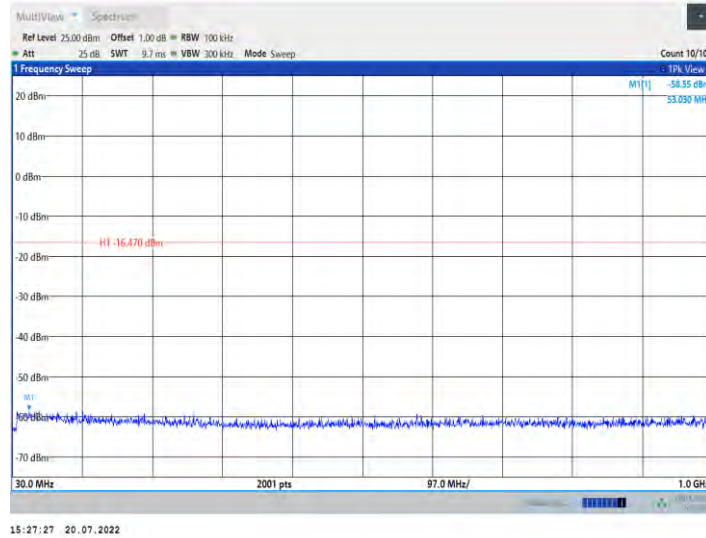
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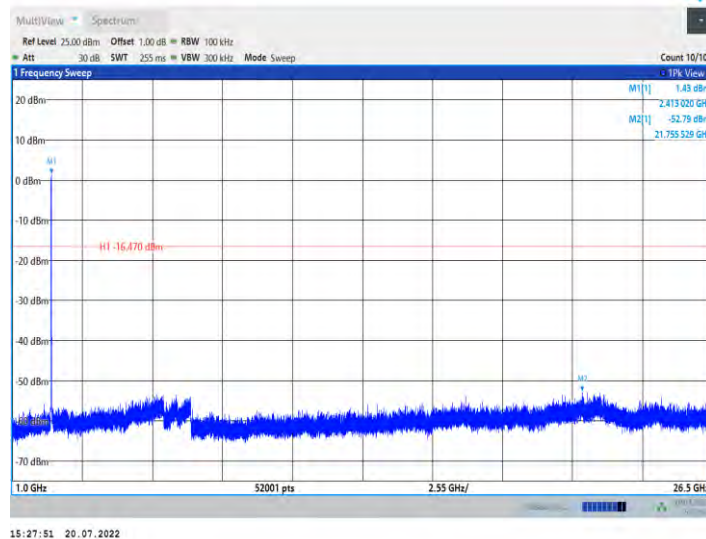
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11ax20SISO\_Ant4\_2412\_30~1000



11ax20SISO\_Ant4\_2412\_1000~26500



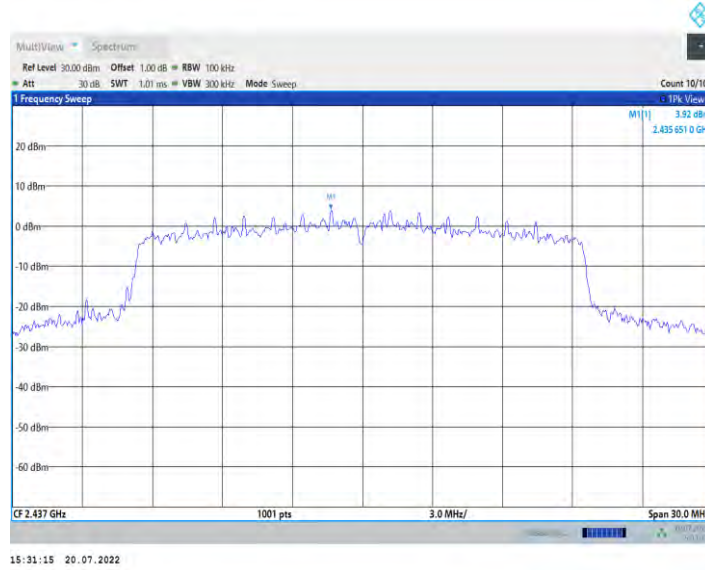
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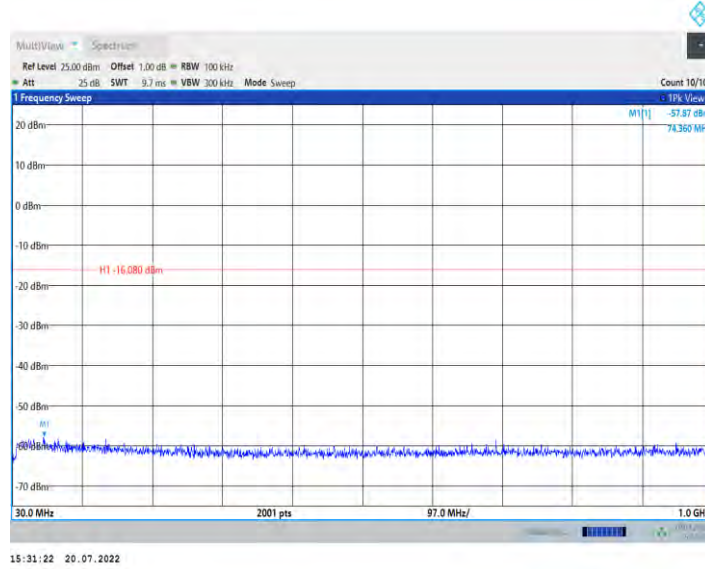
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11ax20SISO Ant4 2437 0~Reference



11ax20SISO Ant4 2437 30~1000

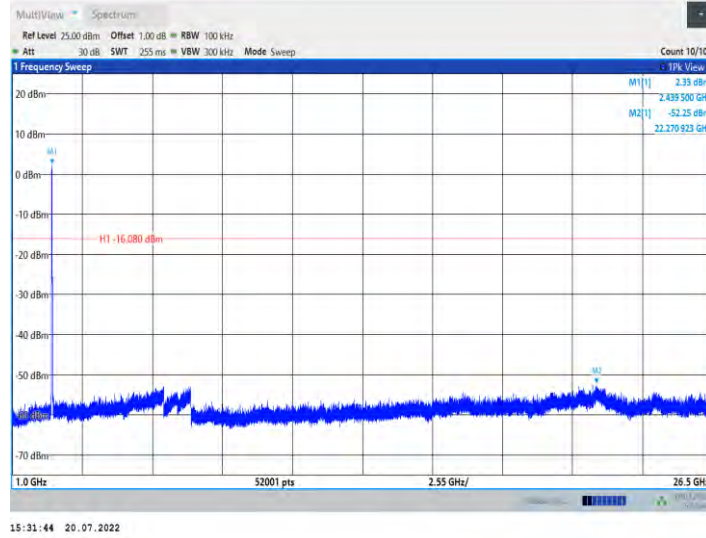


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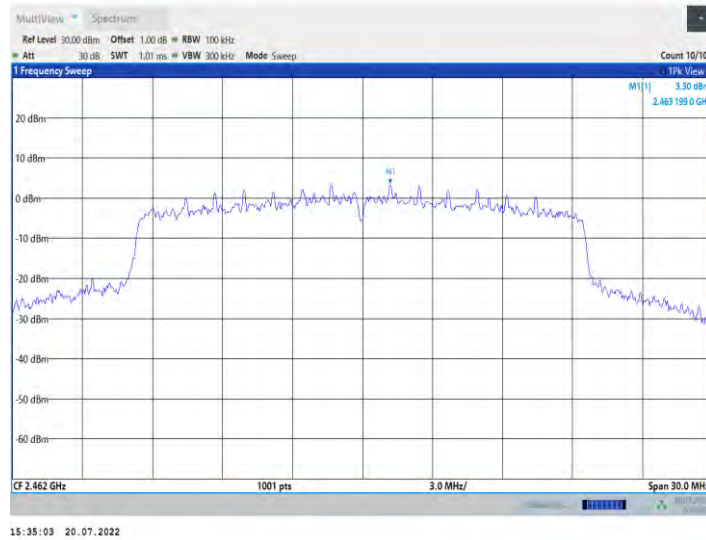
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11ax20SISO\_Ant4\_2462\_0~Reference

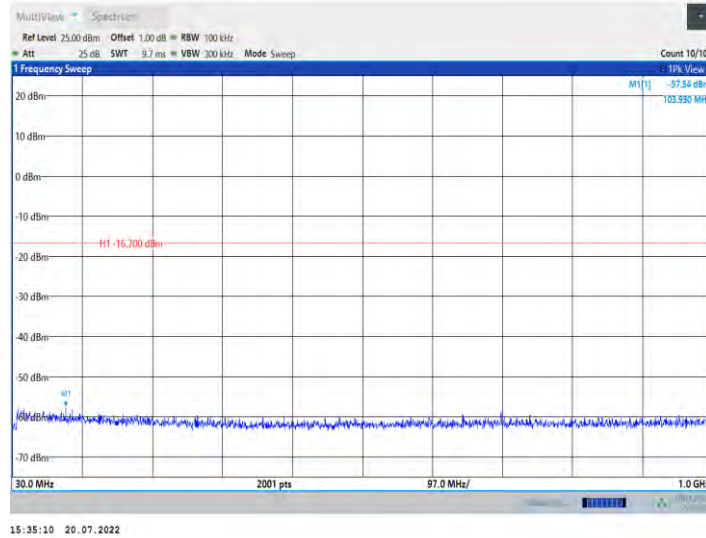


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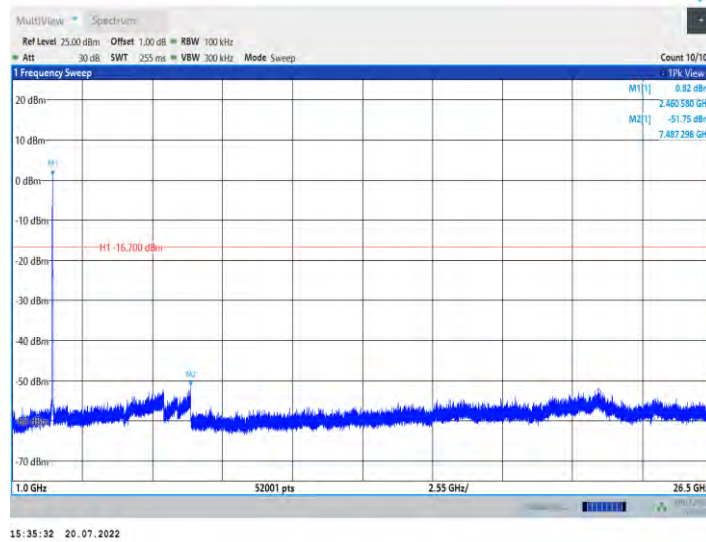
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Report No.: SEWM2207000107RG05

Rev.: 01

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## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant4	2412	8.38	8.43	99.41
11g	Ant4	2412	1.39	1.43	97.20
11n20SISO	Ant4	2412	1.30	1.34	97.01
11ax20SISO	Ant4	2412	1.01	1.05	96.19



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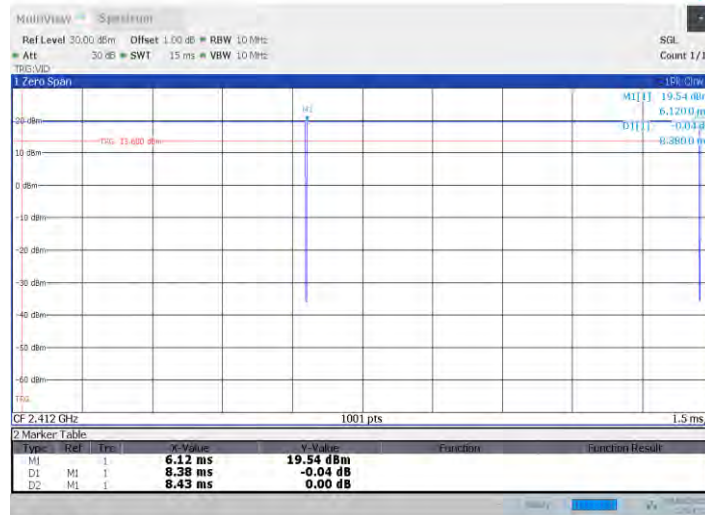
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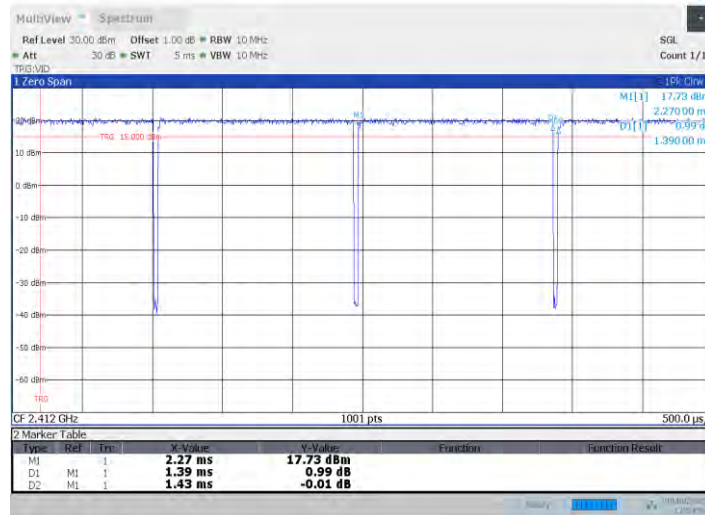
Test Graphs

11b Ant4 2412



13:34:16 09.08.2022

11g Ant4 2412



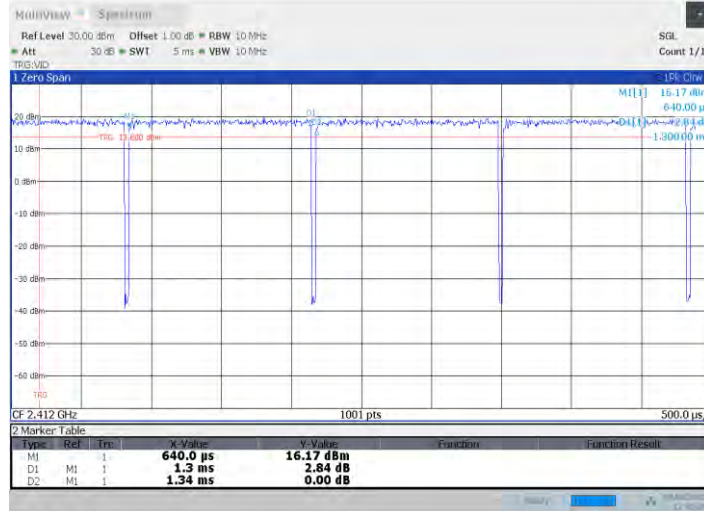
12:04:05 09.08.2022



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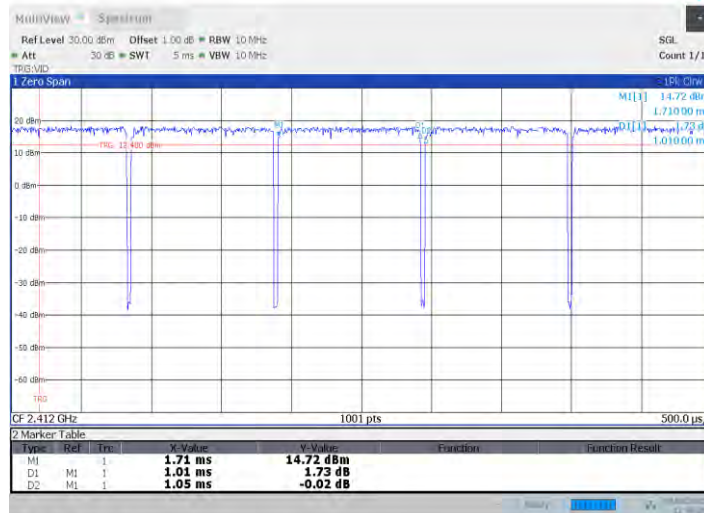
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11n20SISO\_Ant4\_2412



12:45:37 09.08.2022

11ax20SISO\_Ant4\_2412



12:46:28 09.08.2022



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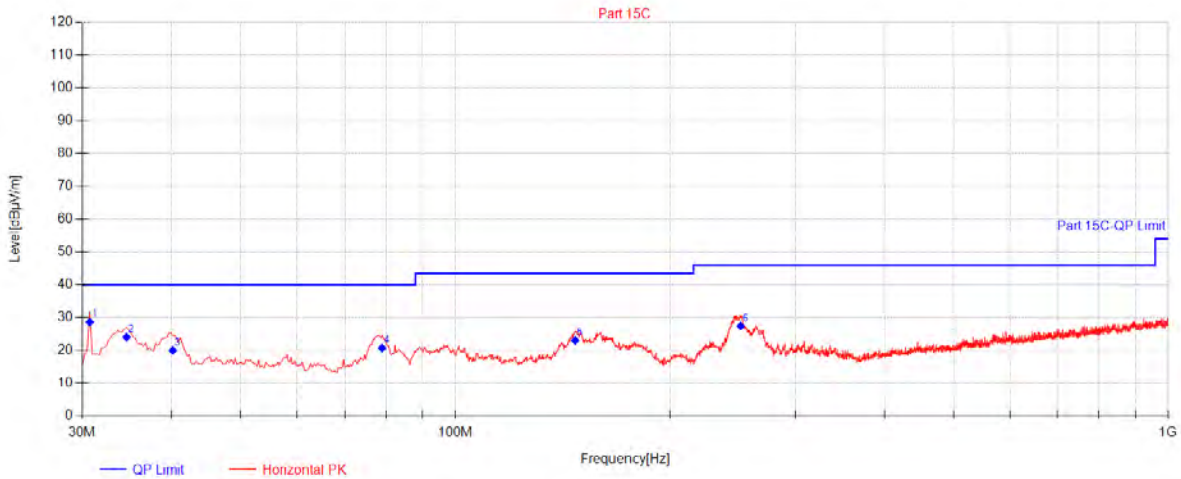
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### Radiated Spurious Emissions

### Radiated emission below 1GHz

### Worst case Mode: 11ax20\_Channel 11



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	30.7275	52.03	-36.67	13.24	28.61	40.00	11.39	188	308	Horizontal
2	34.6075	47.13	-36.50	13.38	24.00	40.00	16.00	142	130	Horizontal
3	40.185	42.19	-36.27	14.05	19.98	40.00	20.02	258	142	Horizontal
4	78.985	47.01	-35.72	9.45	20.73	40.00	19.27	147	152	Horizontal
5	147.37	44.59	-35.31	13.74	23.02	43.50	20.48	169	344	Horizontal
6	251.645	50.07	-34.26	11.61	27.43	46.00	18.57	133	185	Horizontal



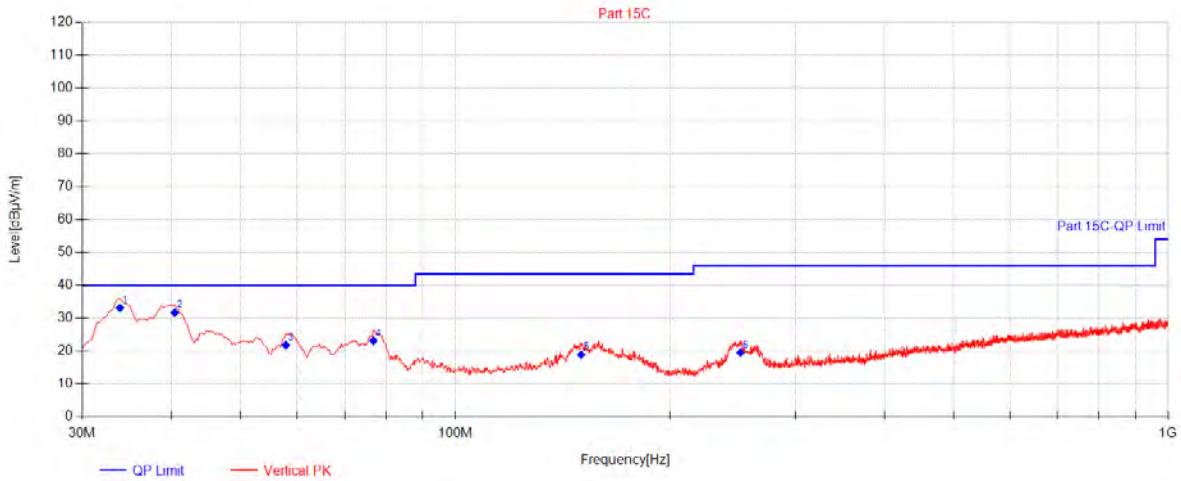
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	56.29	-36.53	13.35	33.11	40.00	6.89	162	207	Vertical
2	40.4275	53.87	-36.26	14.03	31.64	40.00	8.36	144	186	Vertical
3	57.8875	45.22	-36.35	12.92	21.79	40.00	18.21	175	236	Vertical
4	76.8025	49.27	-35.91	9.78	23.13	40.00	16.87	233	267	Vertical
5	150.28	40.27	-35.23	13.83	18.87	43.50	24.63	299	195	Vertical
6	251.4025	42.13	-34.26	11.60	19.48	46.00	26.52	105	30	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.

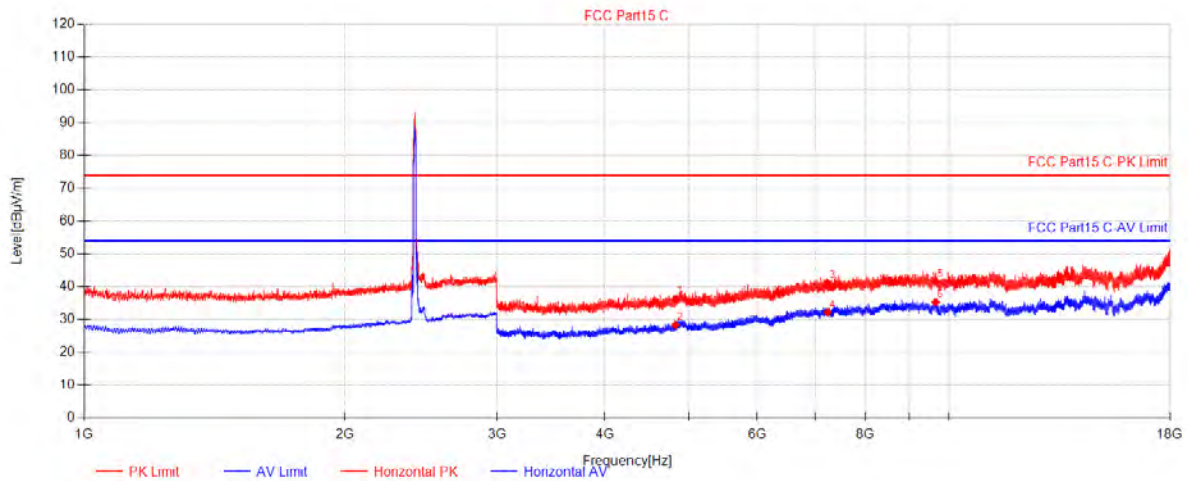


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### Transmitter emission Above 1GHz

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	4824.0000	49.39	32.39	-45.54	36.24	74.00	37.76	285	80	Horizontal
2	4824.0000	41.47	32.39	-45.54	28.32	54.00	25.68	172	0	Horizontal
3	7236.0000	48.11	36.58	-43.54	41.15	74.00	32.85	146	138	Horizontal
4	7236.0000	39.12	36.58	-43.54	32.16	54.00	21.84	236	165	Horizontal
5	9648.0000	42.69	38.39	-39.56	41.52	74.00	32.48	195	304	Horizontal
6	9648.0000	36.51	38.39	-39.56	35.34	54.00	18.66	211	220	Horizontal



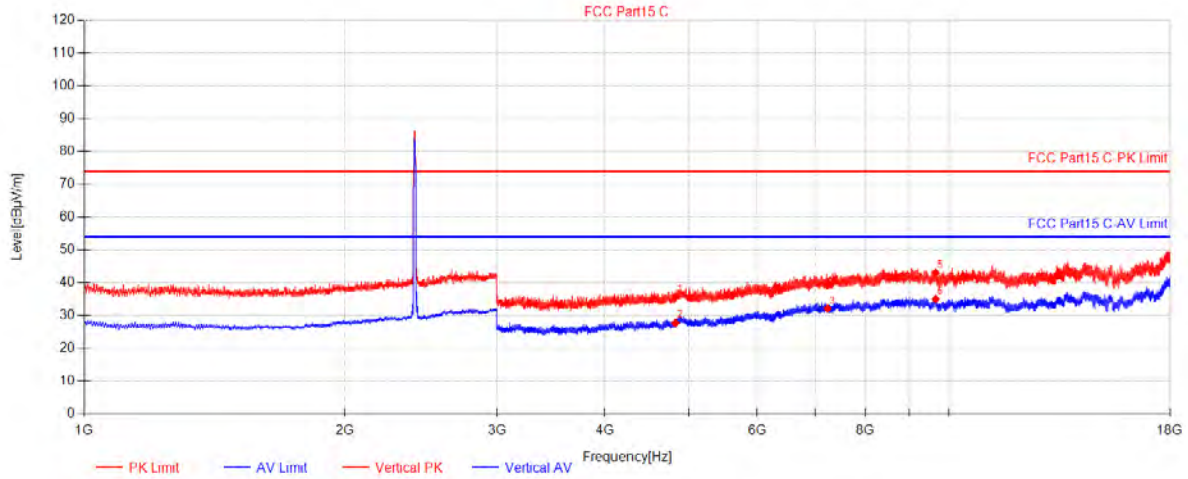
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802.11b\_Channel 01



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	48.86	32.39	-45.54	35.71	74.00	38.29	125	1	Vertical
2	4824.0000	40.91	32.39	-45.54	27.76	54.00	26.24	148	251	Vertical
3	7236.0000	39.06	36.58	-43.54	32.10	54.00	21.90	175	194	Vertical
4	7236.0000	46.13	36.58	-43.54	39.17	74.00	34.83	100	140	Vertical
5	9648.0000	44.22	38.39	-39.56	43.05	74.00	30.95	291	85	Vertical
6	9648.0000	36.21	38.39	-39.56	35.04	54.00	18.96	142	357	Vertical

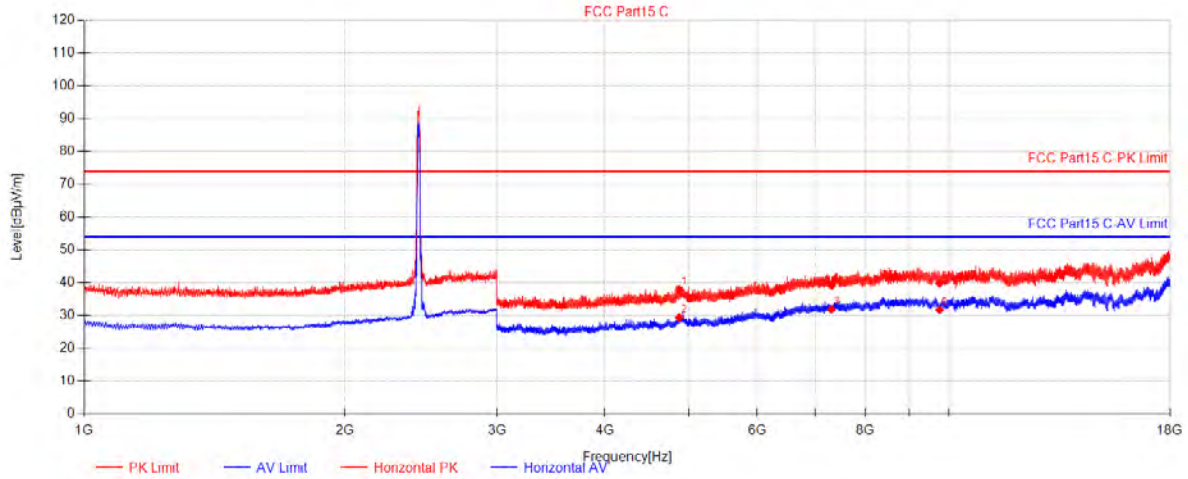


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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.02	32.53	-45.53	38.01	74.00	35.99	165	139	Horizontal
2	4874.0000	42.44	32.53	-45.53	29.43	54.00	24.57	142	305	Horizontal
3	7311.0000	39.06	36.54	-43.71	31.89	54.00	22.11	236	359	Horizontal
4	7311.0000	46.24	36.54	-43.71	39.07	74.00	34.93	145	84	Horizontal
5	9748.0000	40.91	38.28	-39.46	39.73	74.00	34.27	281	122	Horizontal
6	9748.0000	32.87	38.28	-39.46	31.69	54.00	22.31	291	167	Horizontal



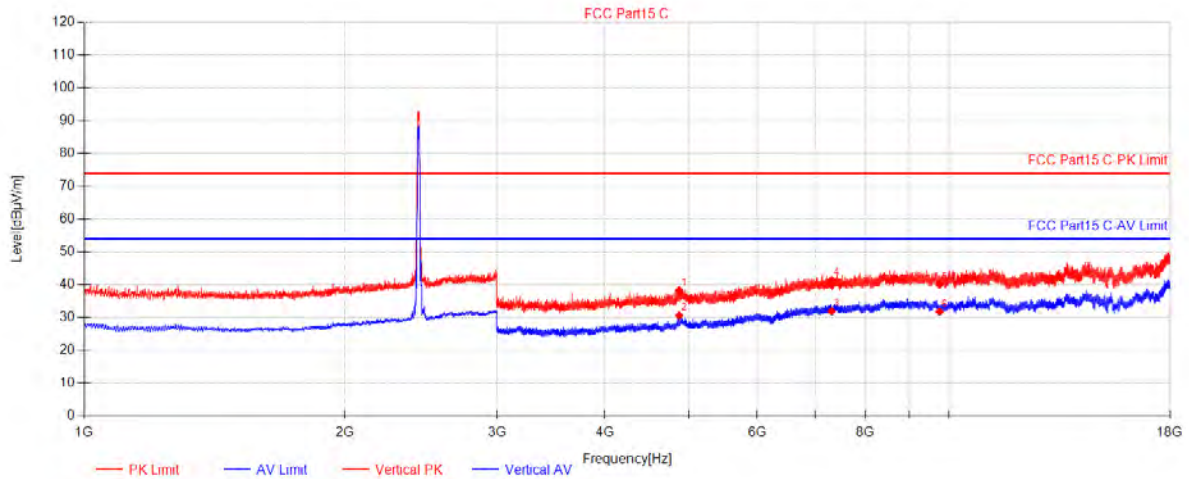
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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.26	32.53	-45.53	38.25	74.00	35.75	211	221	Vertical
2	4874.0000	43.62	32.53	-45.53	30.61	54.00	23.39	184	195	Vertical
3	7311.0000	39.09	36.54	-43.71	31.92	54.00	22.08	196	221	Vertical
4	7311.0000	48.58	36.54	-43.71	41.41	74.00	32.59	163	335	Vertical
5	9748.0000	41.25	38.28	-39.46	40.07	74.00	33.93	251	249	Vertical
6	9748.0000	32.94	38.28	-39.46	31.76	54.00	22.24	151	335	Vertical

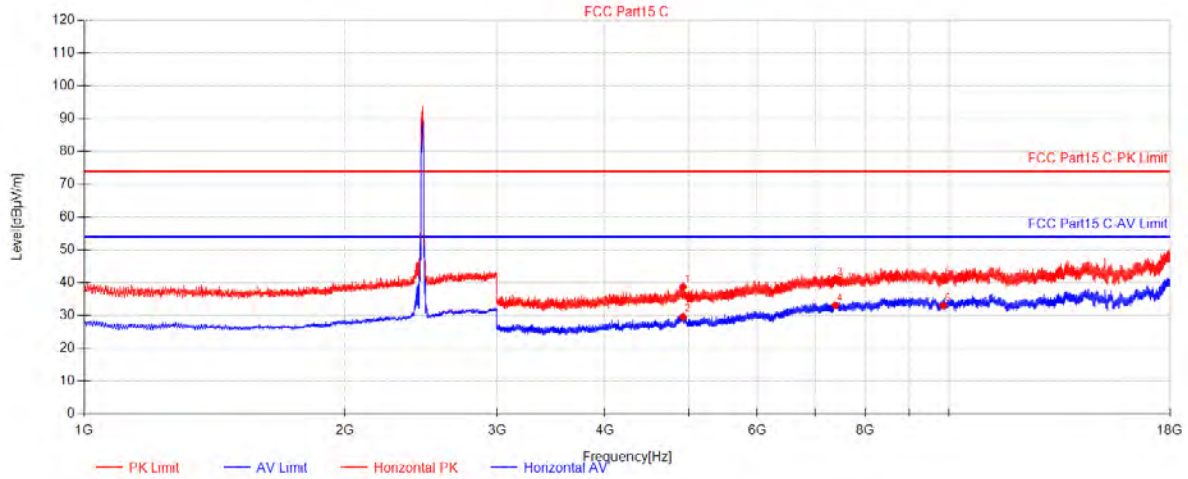


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	51.61	32.67	-45.56	38.72	74.00	35.28	122	194	Horizontal
2	4924.0000	42.50	32.67	-45.56	29.61	54.00	24.39	196	353	Horizontal
3	7386.0000	47.98	36.50	-43.46	41.02	74.00	32.98	251	110	Horizontal
4	7386.0000	40.07	36.50	-43.46	33.11	54.00	20.89	235	110	Horizontal
5	9848.0000	41.98	38.28	-39.41	40.86	74.00	33.14	145	166	Horizontal
6	9848.0000	34.12	38.28	-39.41	33.00	54.00	21.00	184	277	Horizontal

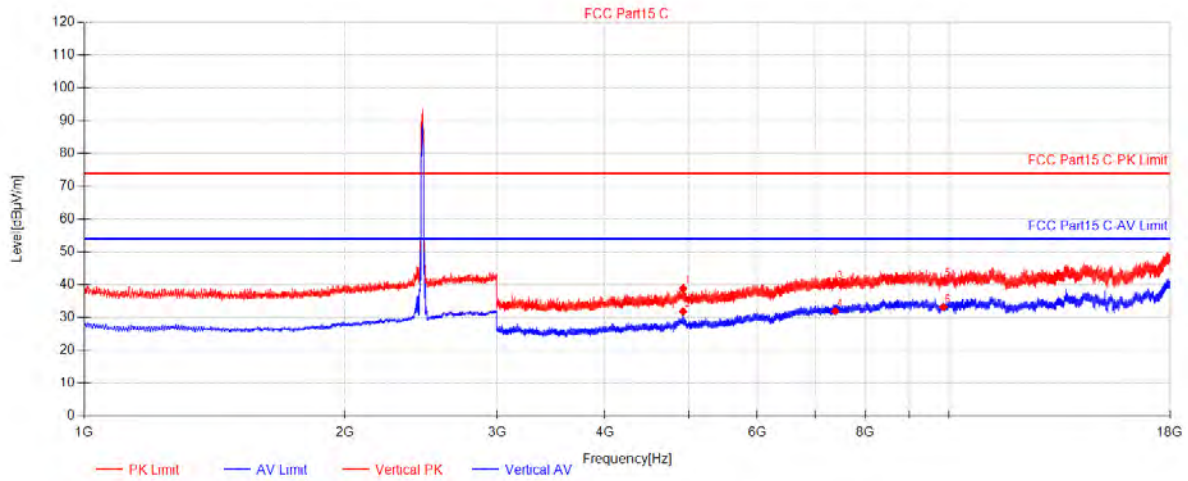


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	51.70	32.67	-45.56	38.81	74.00	35.19	111	169	Vertical
2	4924.0000	44.70	32.67	-45.56	31.81	54.00	22.19	285	254	Vertical
3	7386.0000	47.30	36.50	-43.46	40.34	74.00	33.66	236	169	Vertical
4	7386.0000	38.87	36.50	-43.46	31.91	54.00	22.09	196	337	Vertical
5	9848.0000	42.35	38.28	-39.41	41.23	74.00	32.77	261	308	Vertical
6	9848.0000	34.28	38.28	-39.41	33.16	54.00	20.84	174	359	Vertical

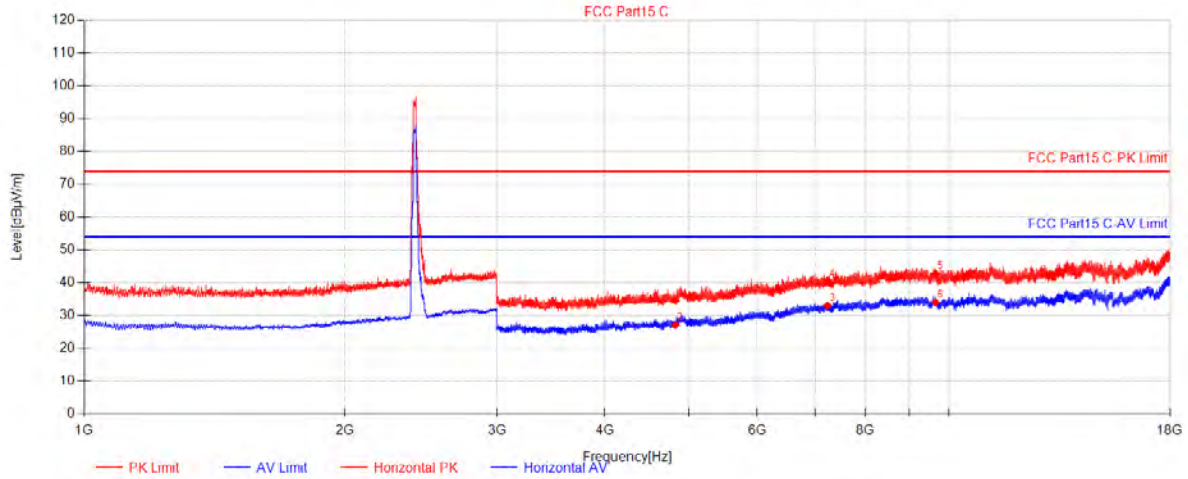


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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	47.72	32.39	-45.54	34.57	74.00	39.43	155	251	Horizontal
2	4824.0000	40.26	32.39	-45.54	27.11	54.00	26.89	233	251	Horizontal
3	7236.0000	39.97	36.58	-43.54	33.01	54.00	20.99	261	335	Horizontal
4	7236.0000	47.51	36.58	-43.54	40.55	74.00	33.45	184	82	Horizontal
5	9648.0000	43.92	38.39	-39.56	42.75	74.00	31.25	169	251	Horizontal
6	9648.0000	35.17	38.39	-39.56	34.00	54.00	20.00	154	4	Horizontal



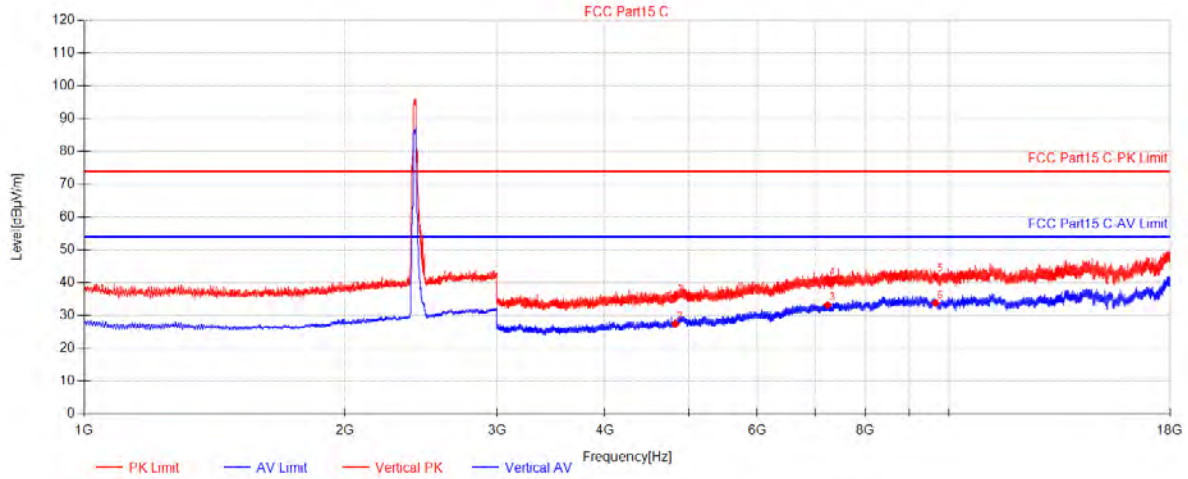
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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.97	32.39	-45.54	35.82	74.00	38.18	145	215	Vertical
2	4824.0000	40.63	32.39	-45.54	27.48	54.00	26.52	261	194	Vertical
3	7236.0000	40.17	36.58	-43.54	33.21	54.00	20.79	194	306	Vertical
4	7236.0000	48.03	36.58	-43.54	41.07	74.00	32.93	261	359	Vertical
5	9648.0000	43.08	38.39	-39.56	41.91	74.00	32.09	236	167	Vertical
6	9648.0000	35.01	38.39	-39.56	33.84	54.00	20.16	175	335	Vertical

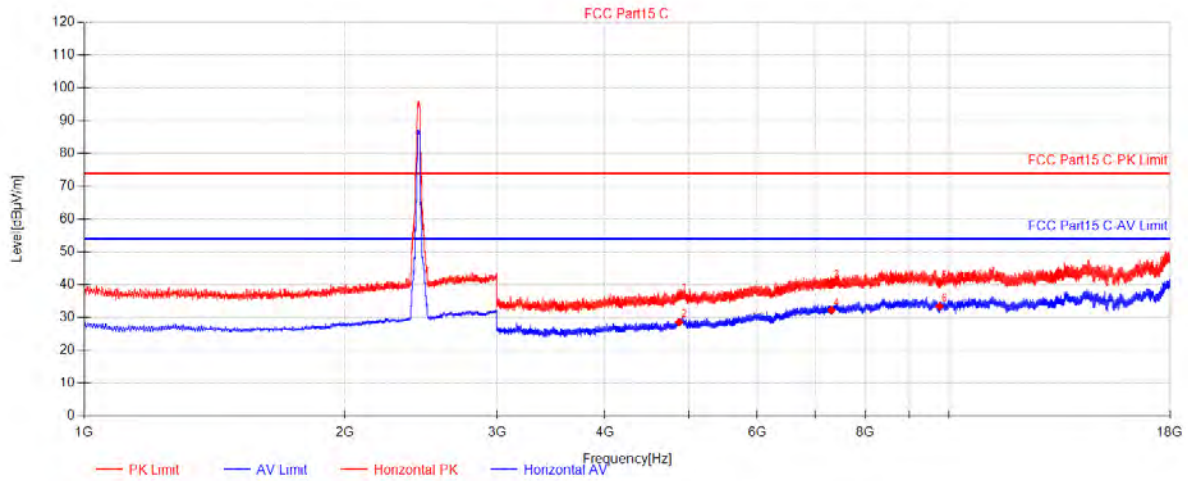


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802.11g\_Channel 06



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	4874.0000	49.52	32.53	-45.53	36.51	74.00	37.49	155	360	Horizontal
2	4874.0000	41.63	32.53	-45.53	28.62	54.00	25.38	218	354	Horizontal
3	7311.0000	47.86	36.54	-43.71	40.69	74.00	33.31	169	221	Horizontal
4	7311.0000	39.36	36.54	-43.71	32.19	54.00	21.81	251	84	Horizontal
5	9748.0000	41.58	38.28	-39.46	40.40	74.00	33.60	191	250	Horizontal
6	9748.0000	34.62	38.28	-39.46	33.44	54.00	20.56	211	139	Horizontal

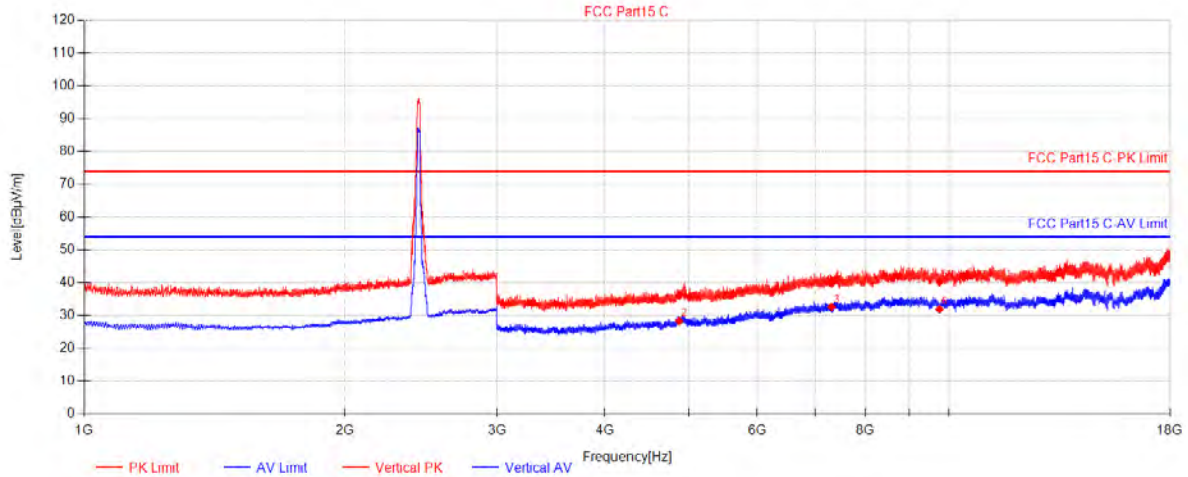


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802.11g\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.10	32.53	-45.53	36.09	74.00	37.91	154	28	Vertical
2	4874.0000	41.33	32.53	-45.53	28.32	54.00	25.68	184	280	Vertical
3	7311.0000	39.76	36.54	-43.71	32.59	54.00	21.41	195	335	Vertical
4	7311.0000	46.90	36.54	-43.71	39.73	74.00	34.27	236	306	Vertical
5	9748.0000	41.41	38.28	-39.46	40.23	74.00	33.77	261	140	Vertical
6	9748.0000	33.08	38.28	-39.46	31.90	54.00	22.10	199	125	Vertical

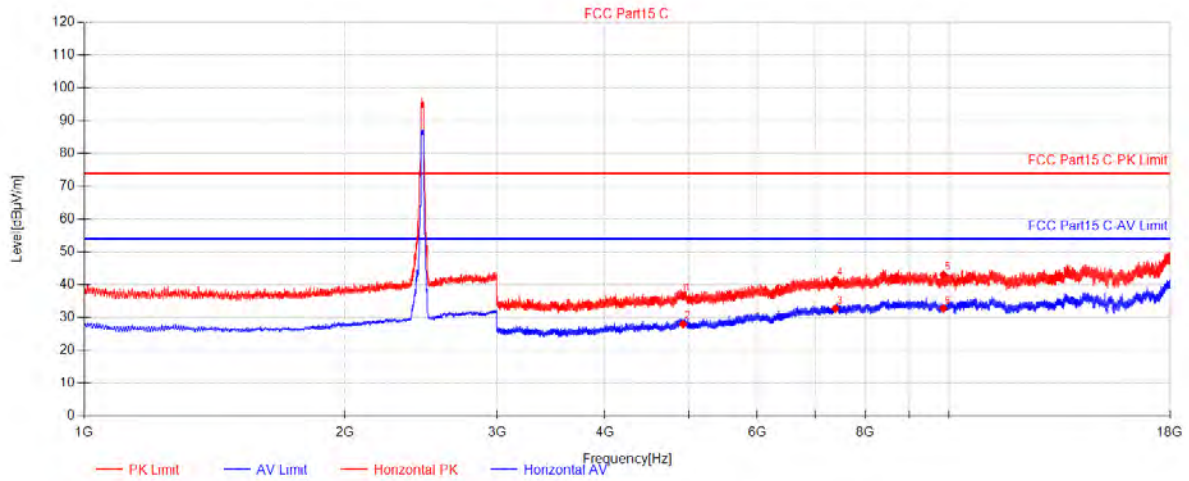


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Data List										
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1	4924.0000	49.41	32.67	-45.56	36.52	74.00	37.48	215	308	Horizontal
2	4924.0000	40.92	32.67	-45.56	28.03	54.00	25.97	148	140	Horizontal
3	7386.0000	39.69	36.50	-43.46	32.73	54.00	21.27	188	354	Horizontal
4	7386.0000	48.47	36.50	-43.46	41.51	74.00	32.49	236	360	Horizontal
5	9848.0000	44.20	38.28	-39.41	43.08	74.00	30.92	261	195	Horizontal
6	9848.0000	33.91	38.28	-39.41	32.79	54.00	21.21	199	251	Horizontal

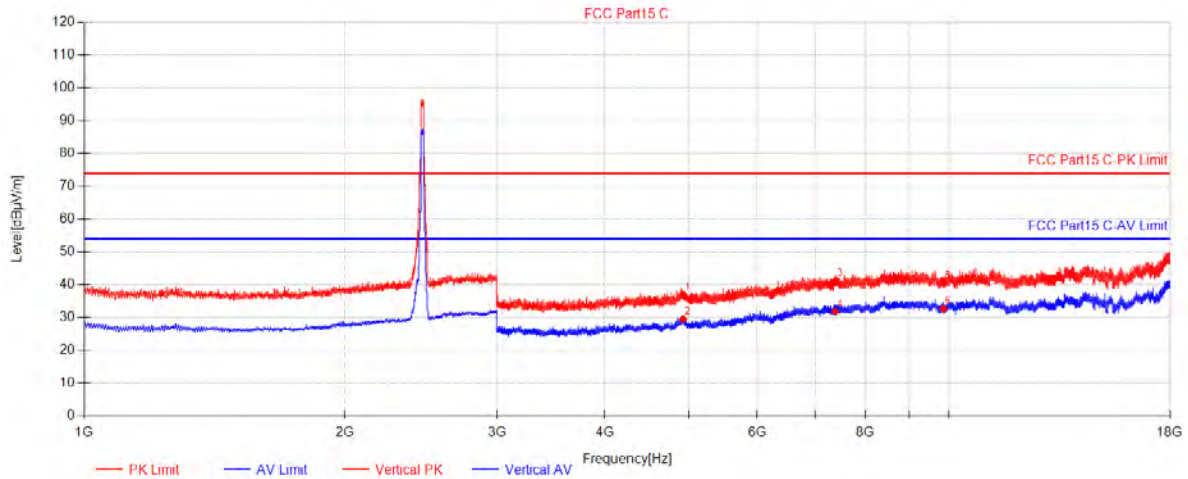


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802.11g\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.78	32.67	-45.56	36.89	74.00	37.11	225	165	Vertical
2	4924.0000	42.42	32.67	-45.56	29.53	54.00	24.47	147	136	Vertical
3	7386.0000	48.15	36.50	-43.46	41.19	74.00	32.81	269	359	Vertical
4	7386.0000	38.74	36.50	-43.46	31.78	54.00	22.22	172	3	Vertical
5	9848.0000	41.51	38.28	-39.41	40.39	74.00	33.61	291	192	Vertical
6	9848.0000	33.80	38.28	-39.41	32.68	54.00	21.32	230	110	Vertical

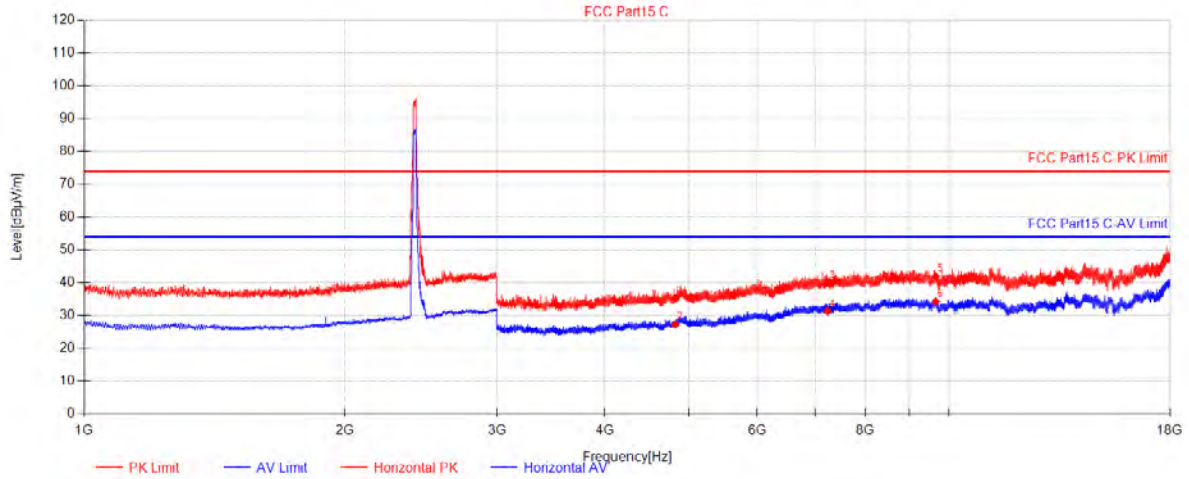


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802.11n20\_Channel 01



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	4824.0000	48.36	32.39	-45.54	35.21	74.00	38.79	162	222	Horizontal
2	4824.0000	40.42	32.39	-45.54	27.27	54.00	26.73	148	138	Horizontal
3	7236.0000	47.00	36.58	-43.54	40.04	74.00	33.96	236	0	Horizontal
4	7236.0000	38.30	36.58	-43.54	31.34	54.00	22.66	195	276	Horizontal
5	9648.0000	43.10	38.39	-39.56	41.93	74.00	32.07	261	138	Horizontal
6	9648.0000	35.47	38.39	-39.56	34.30	54.00	19.70	172	25	Horizontal



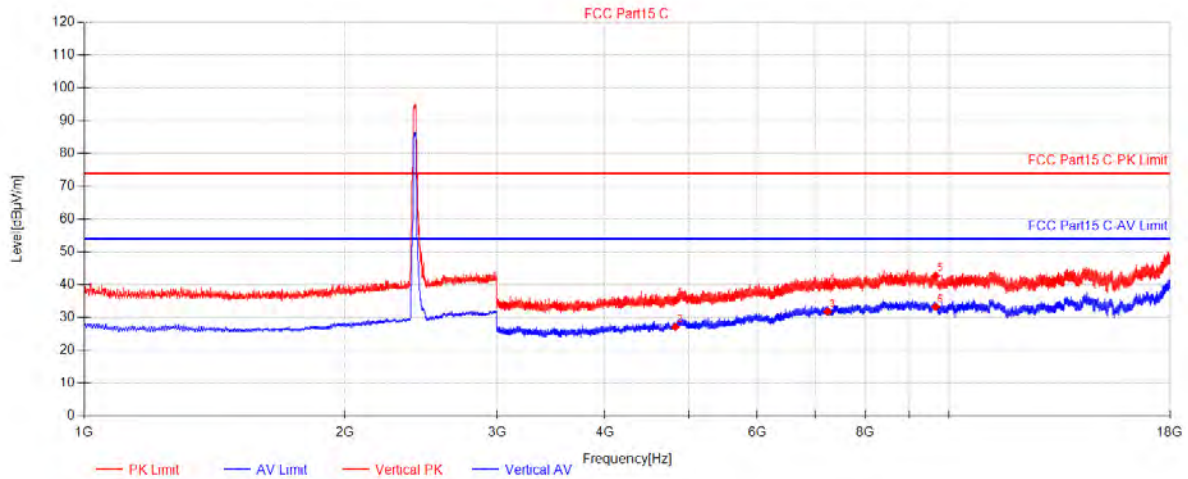
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802.11n20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.47	32.39	-45.54	35.32	74.00	38.68	251	26	Vertical
2	4824.0000	40.27	32.39	-45.54	27.12	54.00	26.88	136	1	Vertical
3	7236.0000	38.72	36.58	-43.54	31.76	54.00	22.24	261	249	Vertical
4	7236.0000	46.54	36.58	-43.54	39.58	74.00	34.42	148	278	Vertical
5	9648.0000	43.92	38.39	-39.56	42.75	74.00	31.25	196	356	Vertical
6	9648.0000	34.42	38.39	-39.56	33.25	54.00	20.75	172	26	Vertical



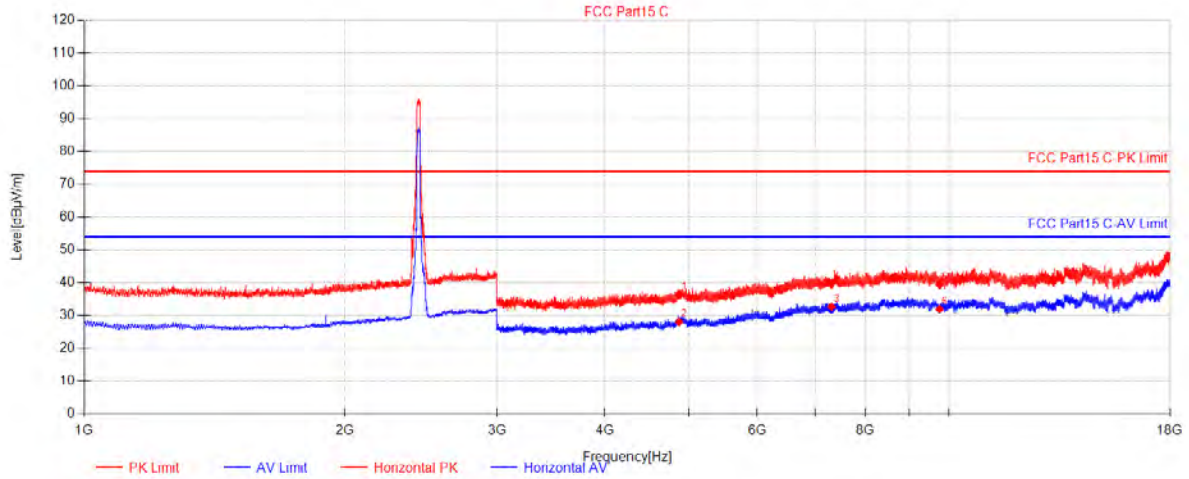
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802.11n20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.41	32.53	-45.53	36.40	74.00	37.60	184	193	Horizontal
2	4874.0000	41.12	32.53	-45.53	28.11	54.00	25.89	236	331	Horizontal
3	7311.0000	39.81	36.54	-43.71	32.64	54.00	21.36	251	26	Horizontal
4	7311.0000	46.96	36.54	-43.71	39.79	74.00	34.21	179	25	Horizontal
5	9748.0000	40.55	38.28	-39.46	39.37	74.00	34.63	261	23	Horizontal
6	9748.0000	33.11	38.28	-39.46	31.93	54.00	22.07	122	110	Horizontal



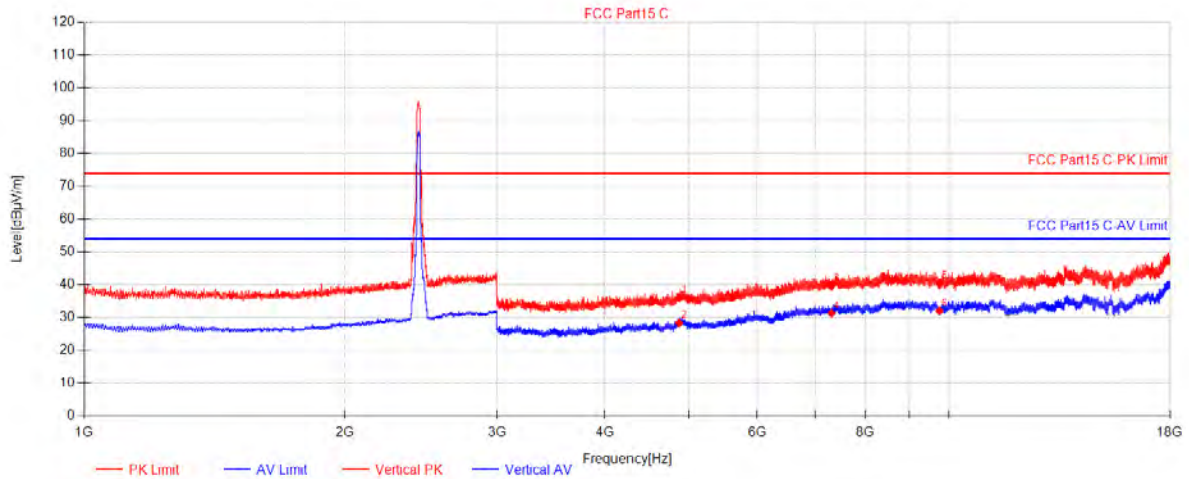
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802.11n20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.99	32.53	-45.53	35.98	74.00	38.02	215	58	Vertical
2	4874.0000	41.34	32.53	-45.53	28.33	54.00	25.67	175	224	Vertical
3	7311.0000	46.82	36.54	-43.71	39.65	74.00	34.35	199	139	Vertical
4	7311.0000	38.45	36.54	-43.71	31.28	54.00	22.72	236	29	Vertical
5	9748.0000	41.70	38.28	-39.46	40.52	74.00	33.48	184	139	Vertical
6	9748.0000	33.21	38.28	-39.46	32.03	54.00	21.97	261	0	Vertical

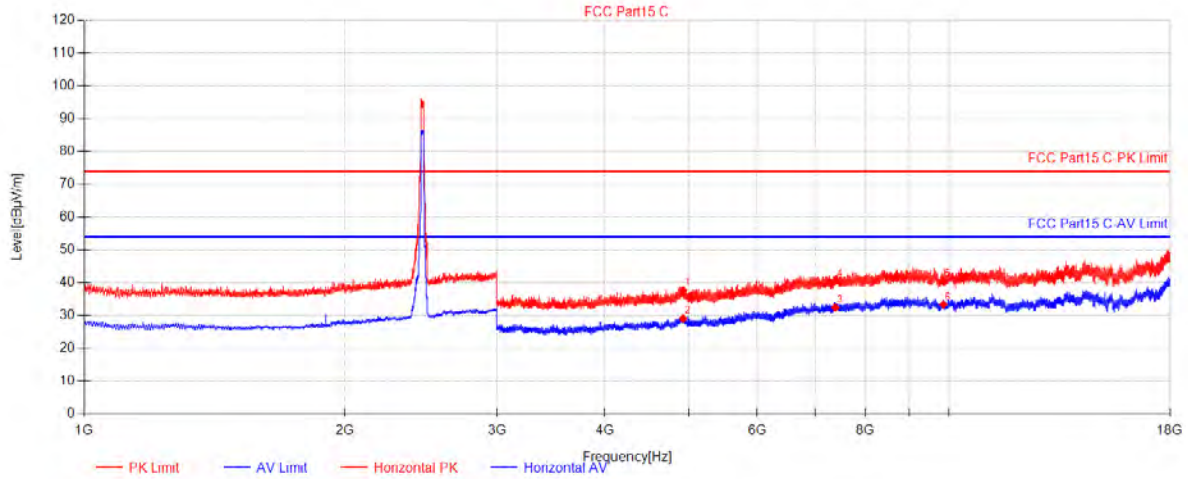


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	50.58	32.67	-45.56	37.69	74.00	36.31	212	306	Horizontal
2	4924.0000	41.96	32.67	-45.56	29.07	54.00	24.93	145	306	Horizontal
3	7386.0000	39.34	36.50	-43.46	32.38	54.00	21.62	185	221	Horizontal
4	7386.0000	47.49	36.50	-43.46	40.53	74.00	33.47	233	221	Horizontal
5	9848.0000	41.45	38.28	-39.41	40.33	74.00	33.67	165	166	Horizontal
6	9848.0000	34.50	38.28	-39.41	33.38	54.00	20.62	400	138	Horizontal

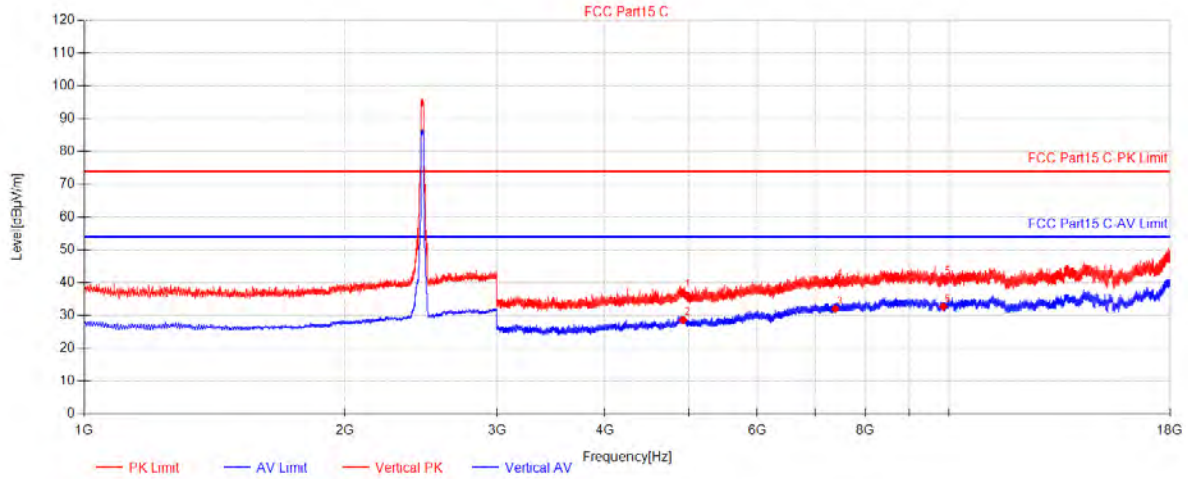


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.91	32.67	-45.56	37.02	74.00	36.98	156	1	Vertical
2	4924.0000	41.55	32.67	-45.56	28.66	54.00	25.34	147	81	Vertical
3	7386.0000	38.98	36.50	-43.46	32.02	54.00	21.98	211	165	Vertical
4	7386.0000	47.42	36.50	-43.46	40.46	74.00	33.54	269	0	Vertical
5	9848.0000	42.31	38.28	-39.41	41.19	74.00	32.81	181	305	Vertical
6	9848.0000	33.82	38.28	-39.41	32.70	54.00	21.30	230	6	Vertical

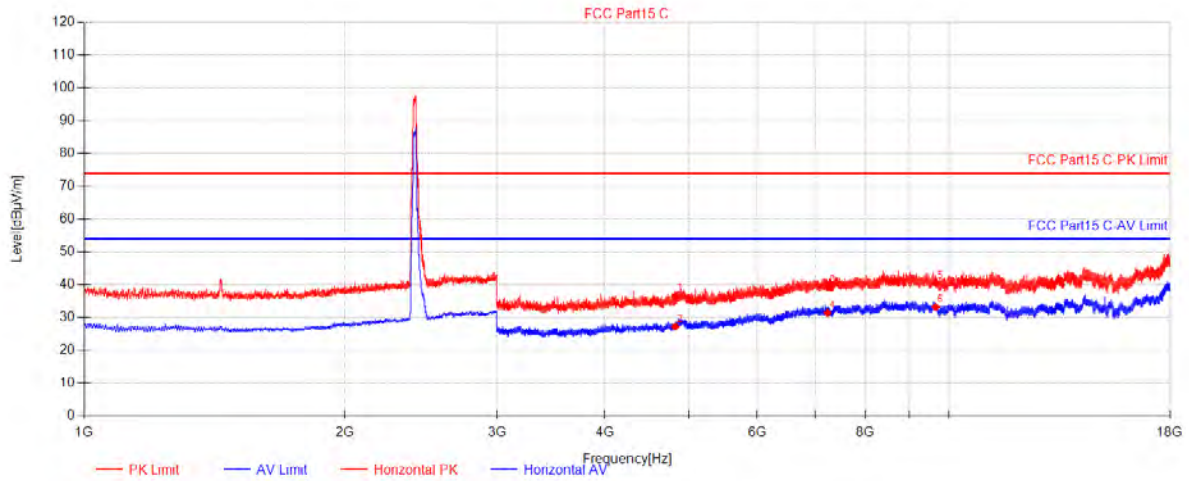


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802.11ax20\_Channel 01



Data List										
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1	4824.0000	49.76	32.39	-45.54	36.61	74.00	37.39	142	194	Horizontal
2	4824.0000	40.39	32.39	-45.54	27.24	54.00	26.76	174	165	Horizontal
3	7236.0000	46.23	36.58	-43.54	39.27	74.00	34.73	251	360	Horizontal
4	7236.0000	38.35	36.58	-43.54	31.39	54.00	22.61	158	165	Horizontal
5	9648.0000	41.64	38.39	-39.56	40.47	74.00	33.53	230	305	Horizontal
6	9648.0000	34.34	38.39	-39.56	33.17	54.00	20.83	166	194	Horizontal



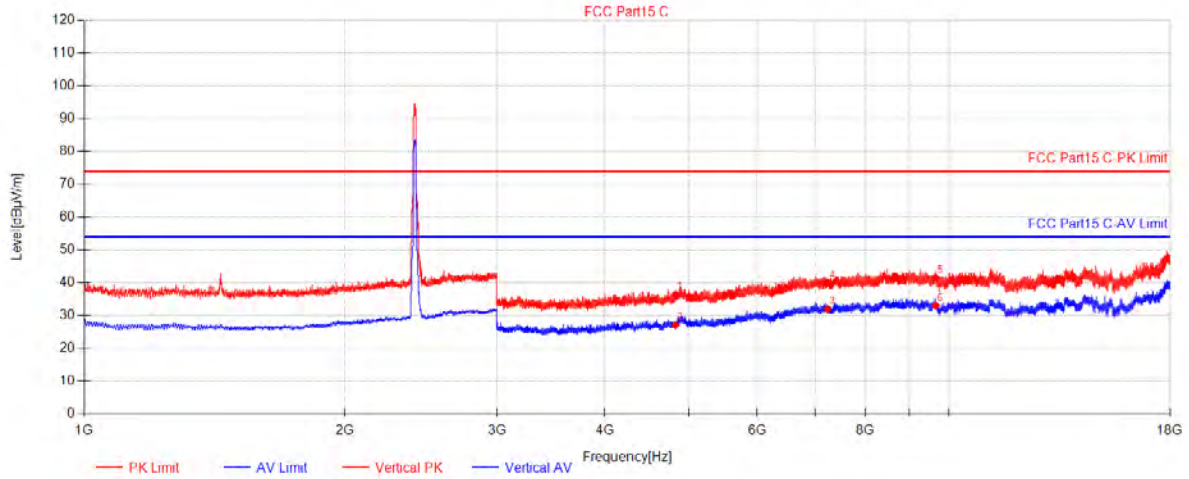
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	49.53	32.39	-45.54	36.38	74.00	37.62	215	359	Vertical
2	4824.0000	40.23	32.39	-45.54	27.08	54.00	26.92	148	359	Vertical
3	7236.0000	38.88	36.58	-43.54	31.92	54.00	22.08	175	55	Vertical
4	7236.0000	46.86	36.58	-43.54	39.90	74.00	34.10	236	221	Vertical
5	9648.0000	42.74	38.39	-39.56	41.57	74.00	32.43	261	28	Vertical
6	9648.0000	34.19	38.39	-39.56	33.02	54.00	20.98	199	195	Vertical

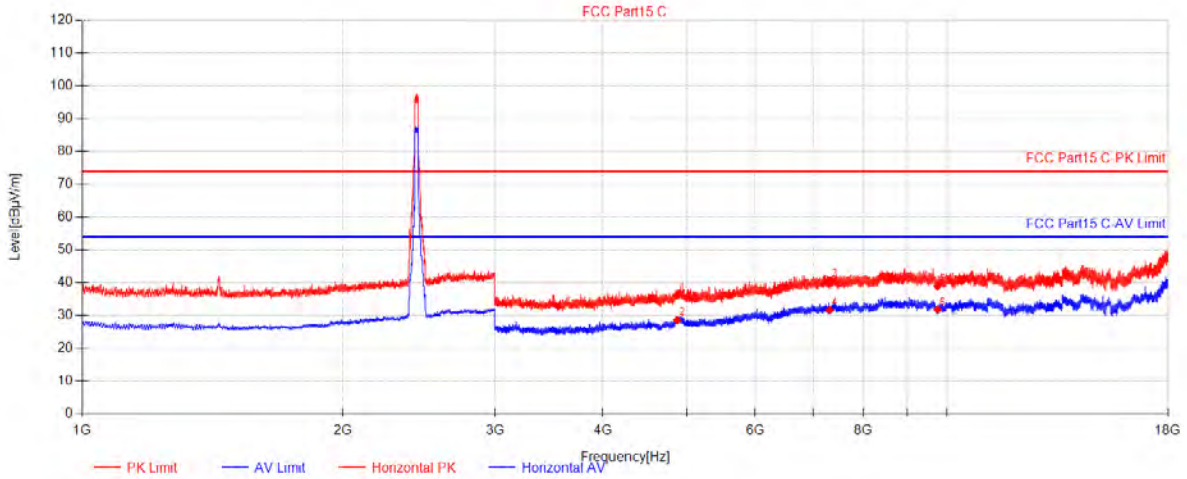


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802.11ax20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.19	32.53	-45.53	36.18	74.00	37.82	178	26	Horizontal
2	4874.0000	41.63	32.53	-45.53	28.62	54.00	25.38	255	26	Horizontal
3	7311.0000	47.68	36.54	-43.71	40.51	74.00	33.49	195	331	Horizontal
4	7311.0000	38.79	36.54	-43.71	31.62	54.00	22.38	164	220	Horizontal
5	9748.0000	40.12	38.28	-39.46	38.94	74.00	35.06	142	359	Horizontal
6	9748.0000	32.99	38.28	-39.46	31.81	54.00	22.19	199	136	Horizontal



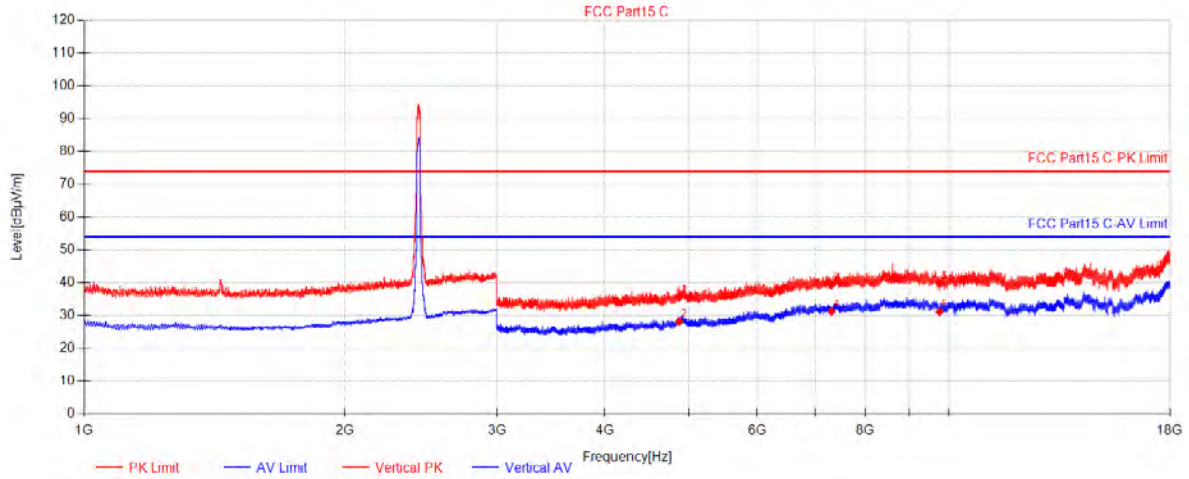
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802.11ax20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.59	32.53	-45.53	35.58	74.00	38.42	213	352	Vertical
2	4874.0000	41.22	32.53	-45.53	28.21	54.00	25.79	215	3	Vertical
3	7311.0000	46.66	36.54	-43.71	39.49	74.00	34.51	266	195	Vertical
4	7311.0000	38.43	36.54	-43.71	31.26	54.00	22.74	145	277	Vertical
5	9748.0000	40.98	38.28	-39.46	39.80	74.00	34.20	321	221	Vertical
6	9748.0000	32.34	38.28	-39.46	31.16	54.00	22.84	400	306	Vertical



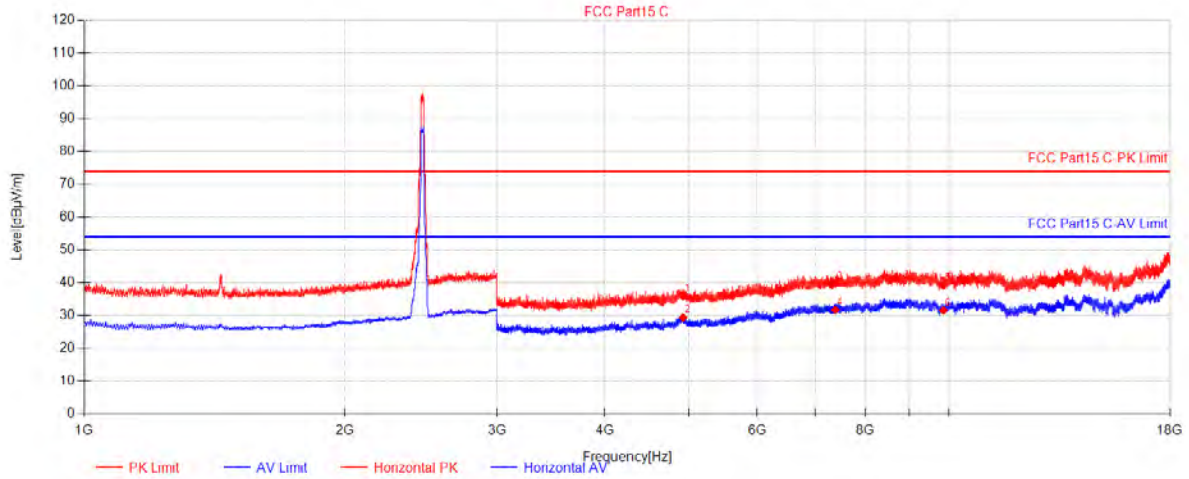
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802.11ax20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.78	32.67	-45.56	35.89	74.00	38.11	215	250	Horizontal
2	4924.0000	42.30	32.67	-45.56	29.41	54.00	24.59	148	166	Horizontal
3	7386.0000	46.66	36.50	-43.46	39.70	74.00	34.30	236	278	Horizontal
4	7386.0000	38.64	36.50	-43.46	31.68	54.00	22.32	195	29	Horizontal
5	9848.0000	40.28	38.28	-39.41	39.16	74.00	34.84	261	55	Horizontal
6	9848.0000	32.68	38.28	-39.41	31.56	54.00	22.44	170	360	Horizontal



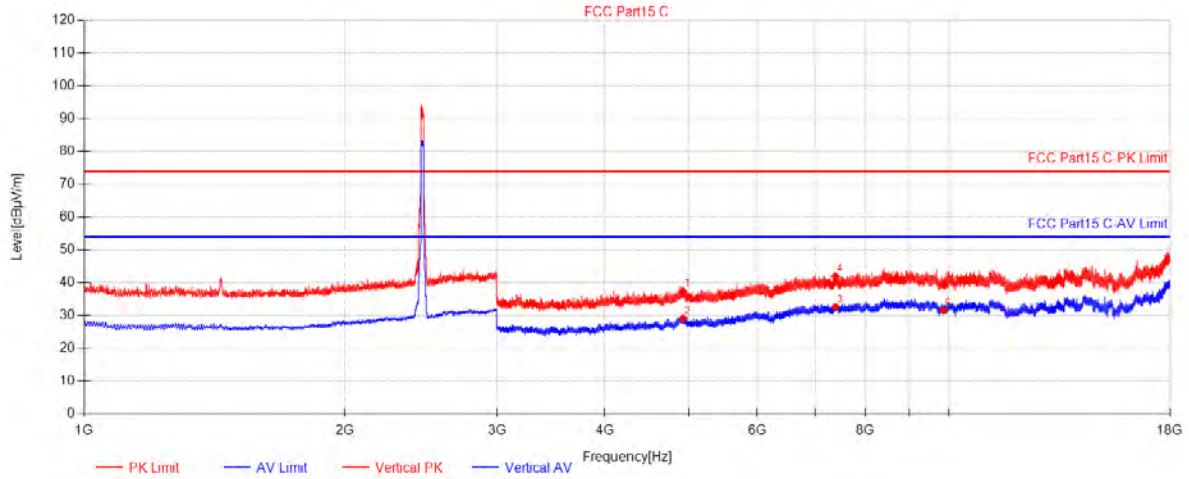
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802.11ax20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	50.22	32.67	-45.56	37.33	74.00	36.67	184	353	Vertical
2	4924.0000	41.93	32.67	-45.56	29.04	54.00	24.96	261	4	Vertical
3	7386.0000	39.53	36.50	-43.46	32.57	54.00	21.43	145	82	Vertical
4	7386.0000	48.99	36.50	-43.46	42.03	74.00	31.97	175	360	Vertical
5	9848.0000	40.53	38.28	-39.41	39.41	74.00	34.59	263	110	Vertical
6	9848.0000	32.68	38.28	-39.41	31.56	54.00	22.44	190	167	Vertical



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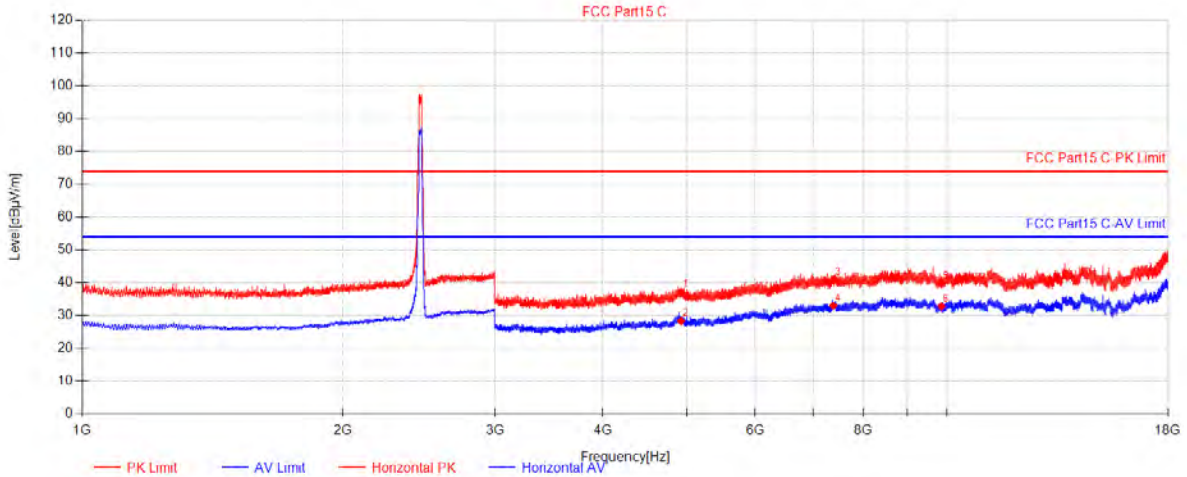
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**For Sample #2(Worst):**

**802.11ax20\_Channel 11**



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	50.03	32.67	-45.56	37.14	74.00	36.86	126	4	Horizontal
2	4924.0000	41.23	32.67	-45.56	28.34	54.00	25.66	236	304	Horizontal
3	7386.0000	47.90	36.50	-43.46	40.94	74.00	33.06	251	139	Horizontal
4	7386.0000	39.94	36.50	-43.46	32.98	54.00	21.02	291	26	Horizontal
5	9848.0000	40.74	38.28	-39.41	39.62	74.00	34.38	142	4	Horizontal
6	9848.0000	33.92	38.28	-39.41	32.80	54.00	21.20	188	54	Horizontal

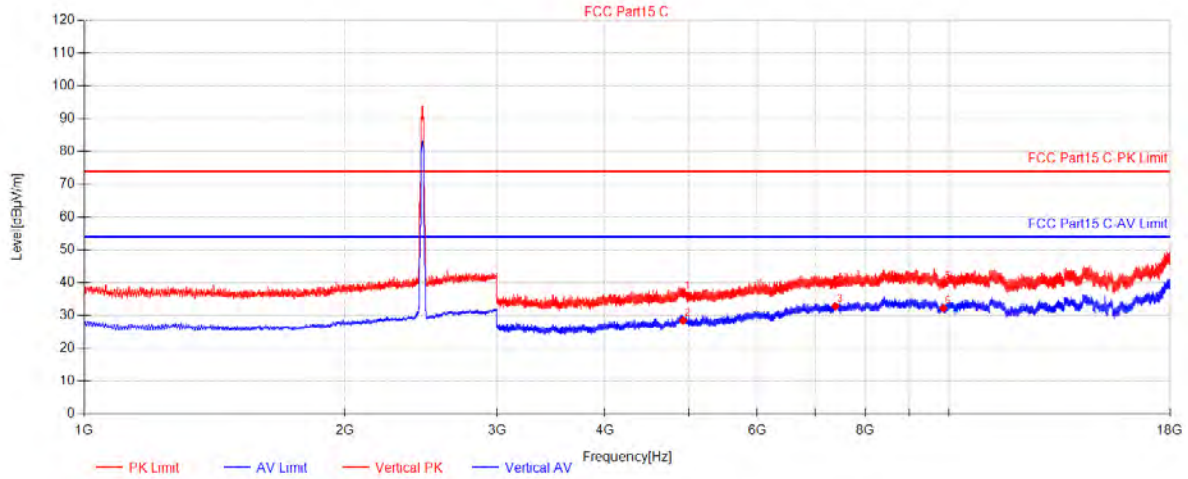


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802.11ax20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.53	32.67	-45.56	36.64	74.00	37.36	122	331	Vertical
2	4924.0000	41.37	32.67	-45.56	28.48	54.00	25.52	291	109	Vertical
3	7386.0000	39.75	36.50	-43.46	32.79	54.00	21.21	140	165	Vertical
4	7386.0000	46.41	36.50	-43.46	39.45	74.00	34.55	251	25	Vertical
5	9848.0000	40.70	38.28	-39.41	39.58	74.00	34.42	239	109	Vertical
6	9848.0000	33.30	38.28	-39.41	32.18	54.00	21.82	166	54	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.

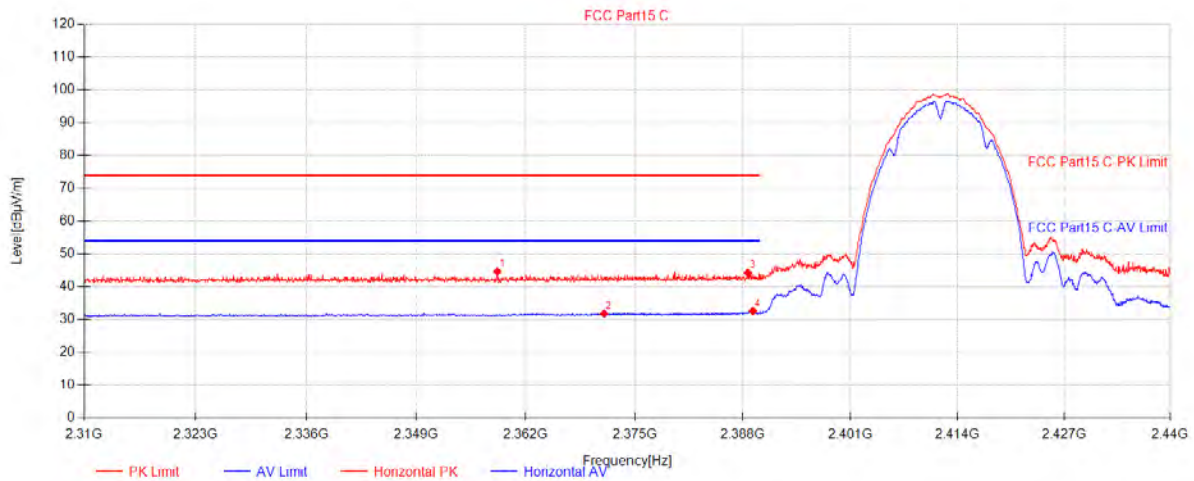


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### Restricted bands around fundamental frequency

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	2358.62	40.81	27.42	-23.57	44.66	74.00	29.34	125	301	Horizontal
2	2371.36	27.92	27.43	-23.57	31.77	54.00	22.23	125	301	Horizontal
3	2388.6067	40.40	27.43	-23.57	44.26	74.00	29.74	125	301	Horizontal
4	2389.2133	28.72	27.43	-23.57	32.58	54.00	21.42	125	301	Horizontal

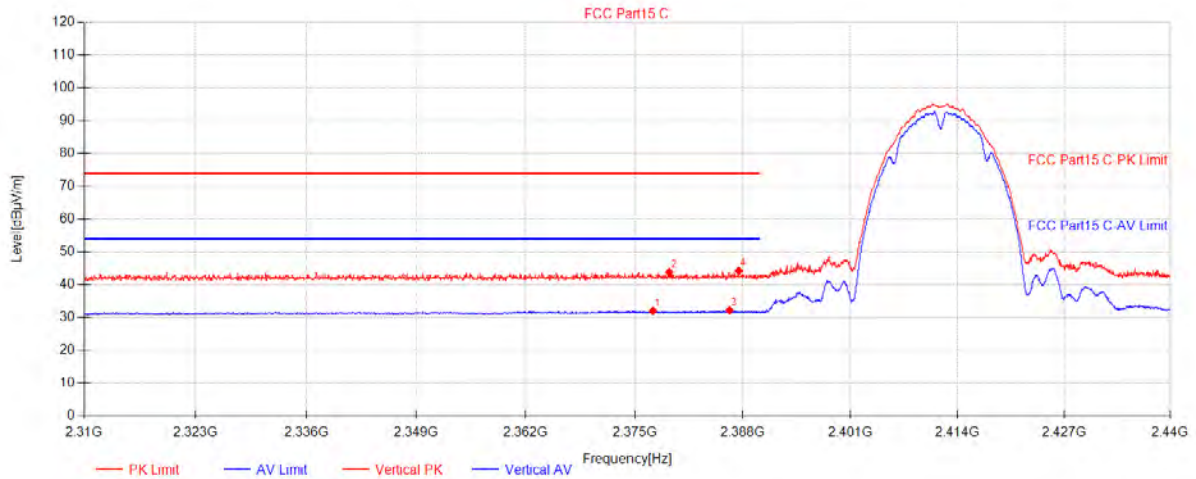


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802.11b\_Channel 01



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	2377.21	28.14	27.43	-23.57	32.00	54.00	22.00	166	182	Vertical
2	2379.16	39.99	27.43	-23.57	43.85	74.00	30.15	166	182	Vertical
3	2386.3967	28.30	27.43	-23.57	32.16	54.00	21.84	166	182	Vertical
4	2387.5233	40.41	27.43	-23.57	44.27	74.00	29.73	166	182	Vertical

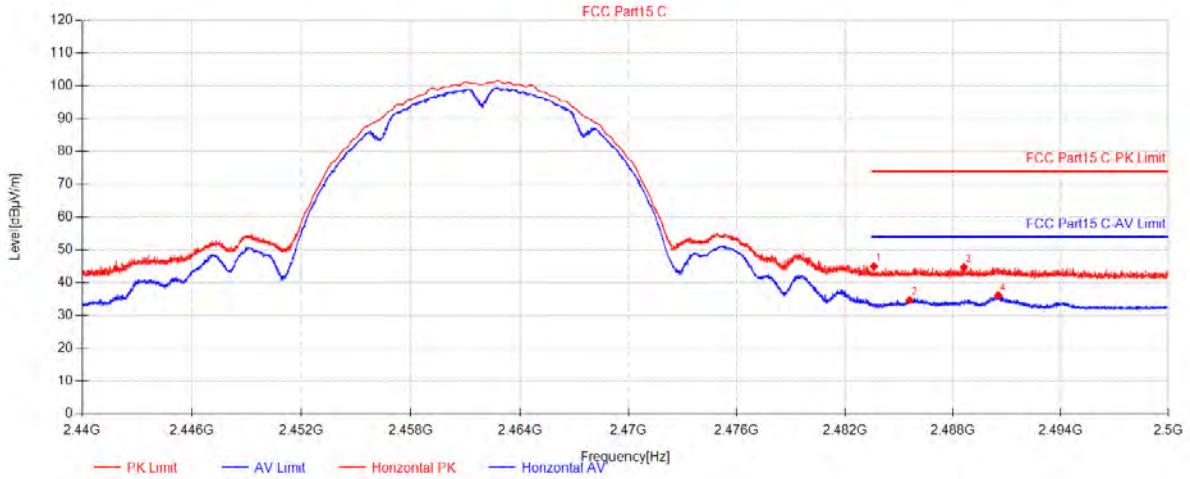


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.605	40.83	27.72	-23.54	45.00	74.00	29.00	236	189	Horizontal
2	2485.5925	30.54	27.72	-23.54	34.72	54.00	19.28	236	189	Horizontal
3	2488.615	40.52	27.73	-23.54	44.71	74.00	29.29	236	189	Horizontal
4	2490.5275	31.96	27.74	-23.54	36.16	54.00	17.84	236	189	Horizontal

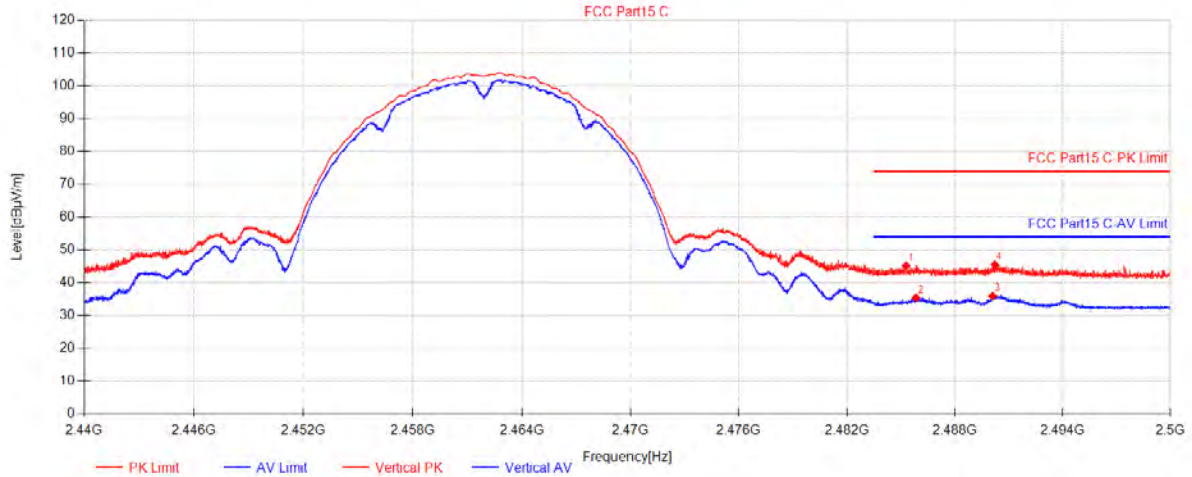


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802.11b\_Channel 11



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	2485.285	41.02	27.72	-23.54	45.20	74.00	28.80	144	185	Vertical
2	2485.8325	31.27	27.72	-23.54	35.45	54.00	18.55	144	185	Vertical
3	2490.1	31.78	27.74	-23.54	35.97	54.00	18.03	144	185	Vertical
4	2490.22	41.31	27.74	-23.54	45.50	74.00	28.50	144	185	Vertical

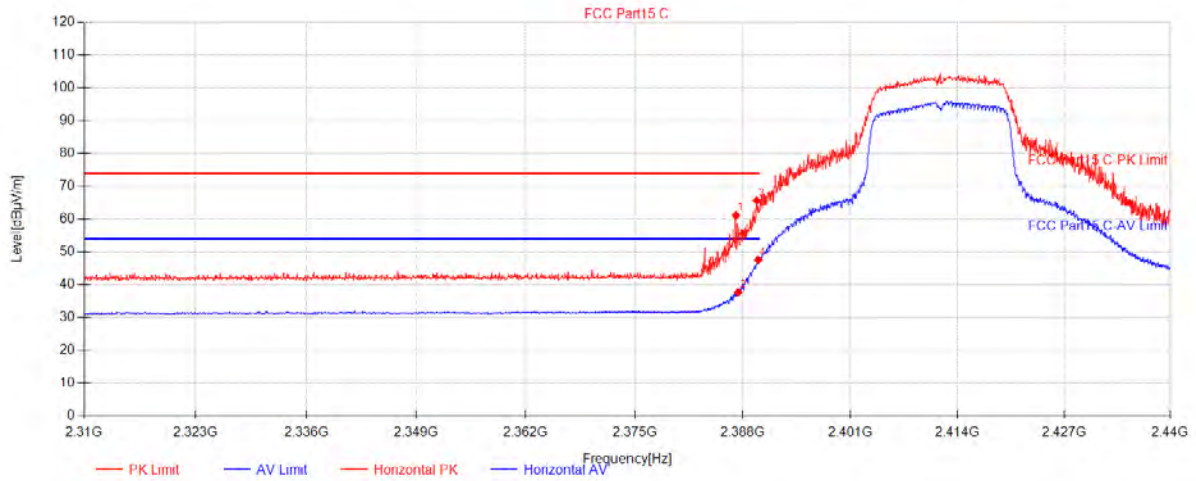


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802.11g\_Channel 01



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	2387.1767	57.30	27.43	-23.57	61.16	74.00	12.84	112	136	Horizontal
2	2387.4367	33.83	27.43	-23.57	37.69	54.00	16.31	112	136	Horizontal
3	2389.69	61.82	27.43	-23.57	65.68	74.00	8.32	112	136	Horizontal
4	2389.8633	43.69	27.43	-23.57	47.55	54.00	6.45	112	136	Horizontal



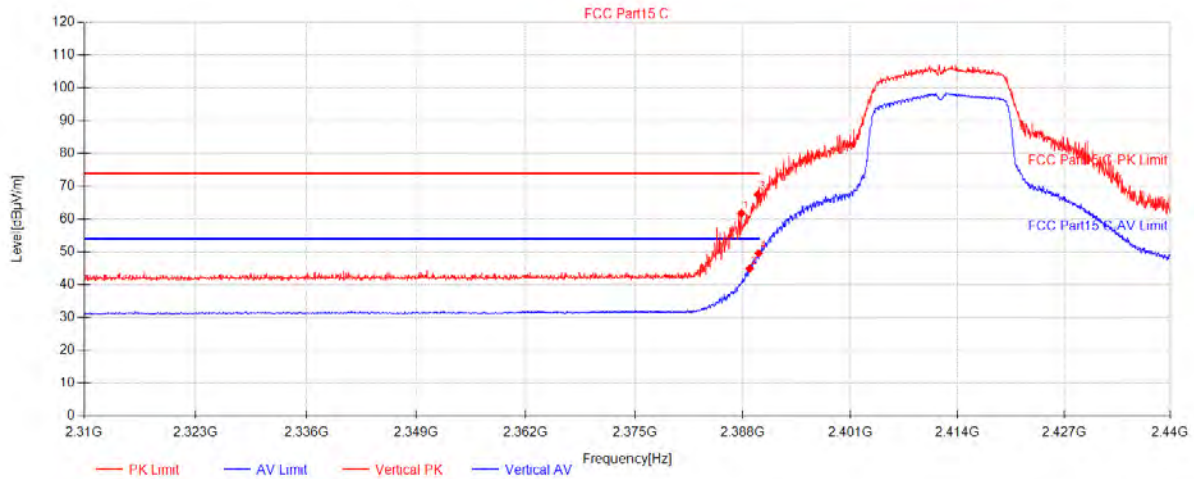
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802.11g\_Channel 01



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	2387.8267	57.91	27.43	-23.57	61.77	74.00	12.23	119	326	Vertical
2	2388.8233	41.05	27.43	-23.57	44.91	54.00	9.09	119	326	Vertical
3	2389.82	63.67	27.43	-23.57	67.53	74.00	6.47	119	326	Vertical
4	2389.9067	45.75	27.43	-23.57	49.61	54.00	4.39	119	326	Vertical

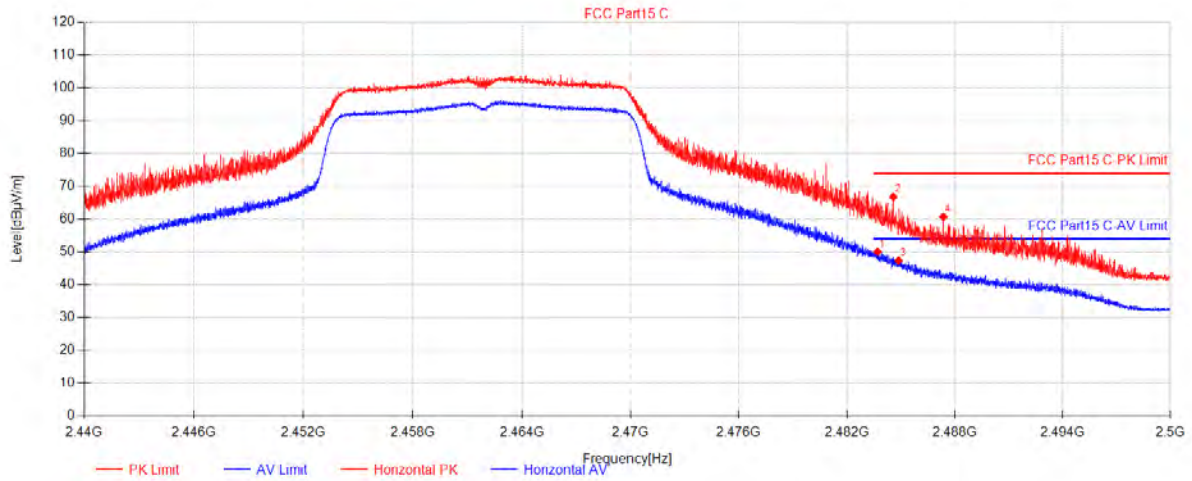


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802.11g\_Channel 11



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	2483.695	45.90	27.72	-23.54	50.07	54.00	3.93	300	57	Horizontal
2	2484.5725	62.66	27.72	-23.54	66.83	74.00	7.17	300	57	Horizontal
3	2484.865	43.19	27.72	-23.54	47.37	54.00	6.63	300	43	Horizontal
4	2487.355	56.55	27.73	-23.54	60.73	74.00	13.27	300	57	Horizontal

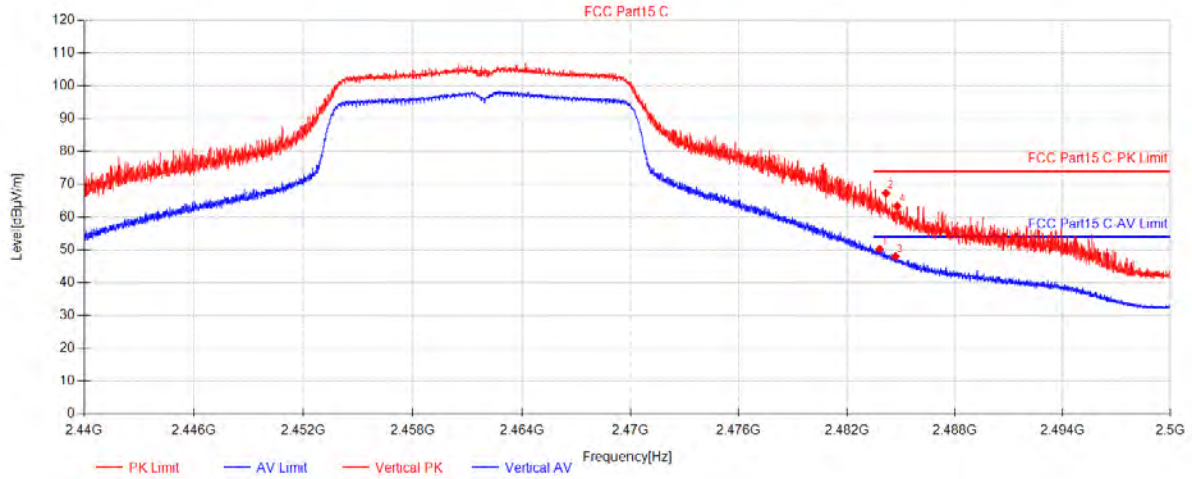


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802.11g\_Channel 11



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	2483.8075	46.14	27.72	-23.54	50.31	54.00	3.69	100	32	Vertical
2	2484.1675	63.15	27.72	-23.54	67.32	74.00	6.68	100	32	Vertical
3	2484.6925	43.80	27.72	-23.54	47.97	54.00	6.03	100	32	Vertical
4	2484.79	59.17	27.72	-23.54	63.35	74.00	10.65	100	32	Vertical

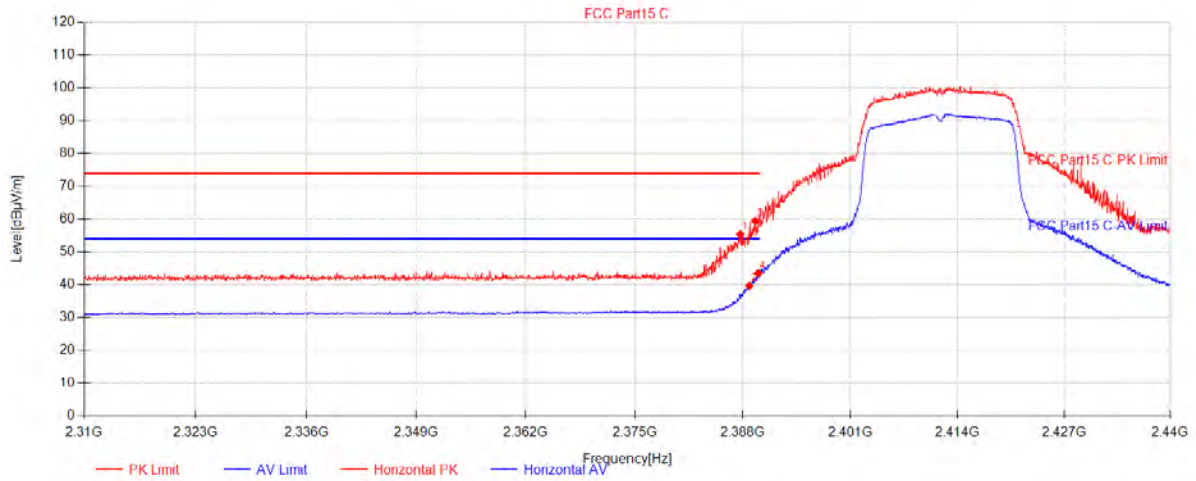


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802.11n20\_Channel 01



Data List										
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1	2387.6967	51.49	27.43	-23.57	55.35	74.00	18.65	251	136	Horizontal
2	2388.78	35.76	27.43	-23.57	39.62	54.00	14.38	251	136	Horizontal
3	2389.5167	55.59	27.43	-23.57	59.45	74.00	14.55	251	136	Horizontal
4	2389.8633	39.72	27.43	-23.57	43.58	54.00	10.42	251	136	Horizontal

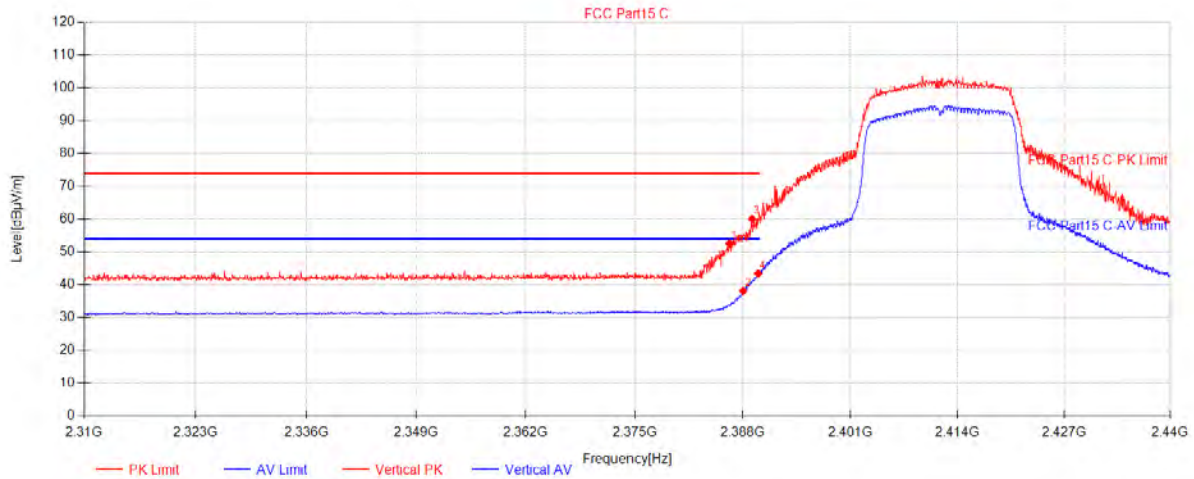


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.3967	48.73	27.43	-23.57	52.59	74.00	21.41	211	179	Vertical
2	2388.0433	34.22	27.43	-23.57	38.08	54.00	15.92	211	179	Vertical
3	2389.1267	56.25	27.43	-23.57	60.11	74.00	13.89	211	179	Vertical
4	2389.8633	39.58	27.43	-23.57	43.44	54.00	10.56	211	179	Vertical

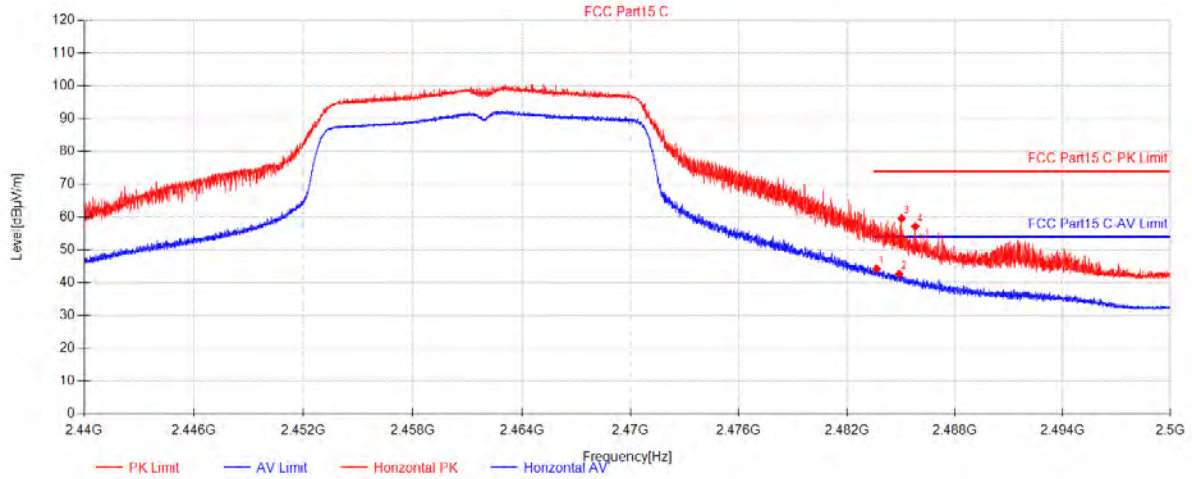


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6425	40.10	27.72	-23.54	44.27	54.00	9.73	236	130	Horizontal
2	2484.9025	38.48	27.72	-23.54	42.66	54.00	11.34	236	130	Horizontal
3	2485.0375	55.44	27.72	-23.54	59.62	74.00	14.38	236	130	Horizontal
4	2485.795	52.99	27.72	-23.54	57.17	74.00	16.83	236	130	Horizontal

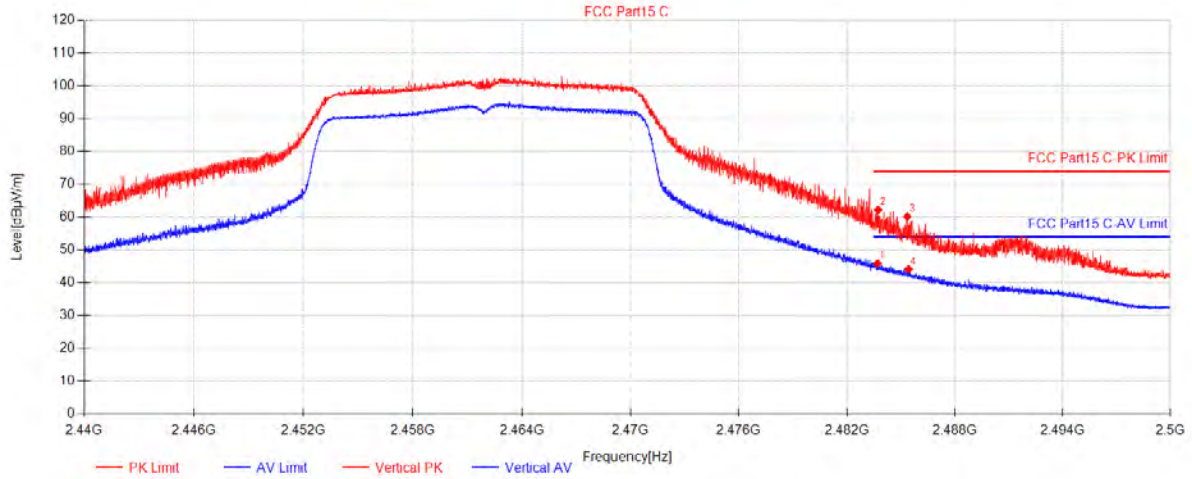


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802.11n20\_Channel 11



Data List										
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1	2483.695	41.71	27.72	-23.54	45.88	54.00	8.12	185	326	Vertical
2	2483.7325	58.05	27.72	-23.54	62.22	74.00	11.78	185	326	Vertical
3	2485.3525	56.02	27.72	-23.54	60.20	74.00	13.80	185	326	Vertical
4	2485.4275	39.95	27.72	-23.54	44.13	54.00	9.87	185	326	Vertical

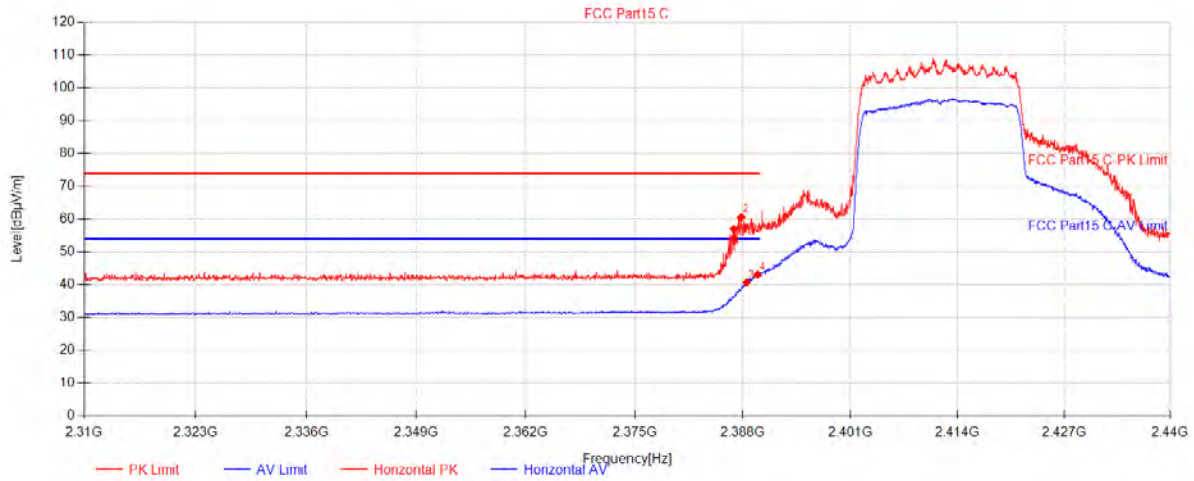


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802.11ax20\_Channel 01



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	2386.9167	53.12	27.43	-23.57	56.98	74.00	17.02	136	288	Horizontal
2	2387.8267	56.77	27.43	-23.57	60.63	74.00	13.37	136	288	Horizontal
3	2388.4767	36.81	27.43	-23.57	40.67	54.00	13.33	136	288	Horizontal
4	2389.7767	39.24	27.43	-23.57	43.10	54.00	10.90	136	288	Horizontal



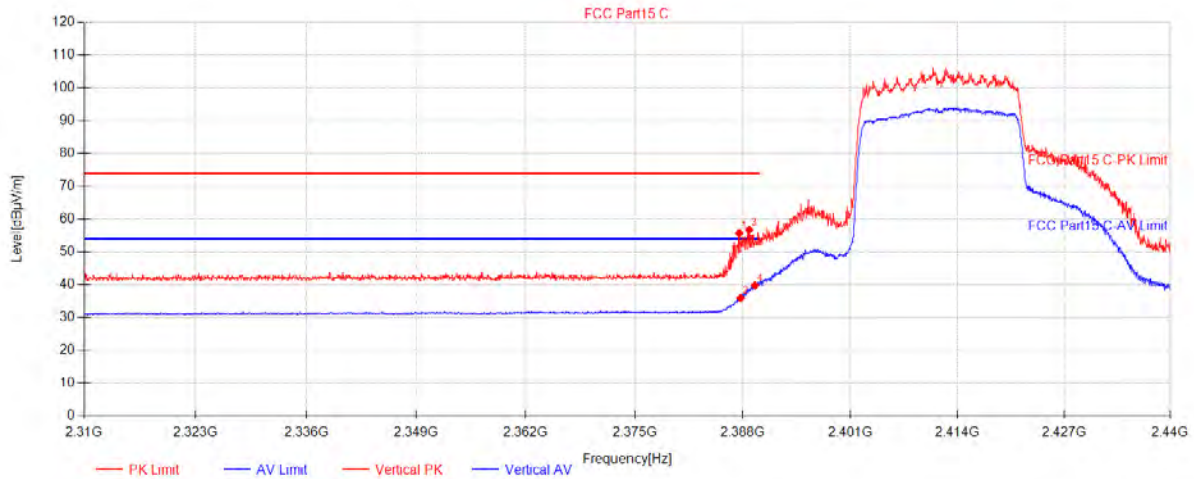
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802.11ax20\_Channel 01



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	2387.5667	51.84	27.43	-23.57	55.70	74.00	18.30	251	216	Vertical
2	2387.74	32.10	27.43	-23.57	35.96	54.00	18.04	251	216	Vertical
3	2388.78	52.85	27.43	-23.57	56.71	74.00	17.29	251	216	Vertical
4	2389.4733	35.90	27.43	-23.57	39.76	54.00	14.24	251	216	Vertical

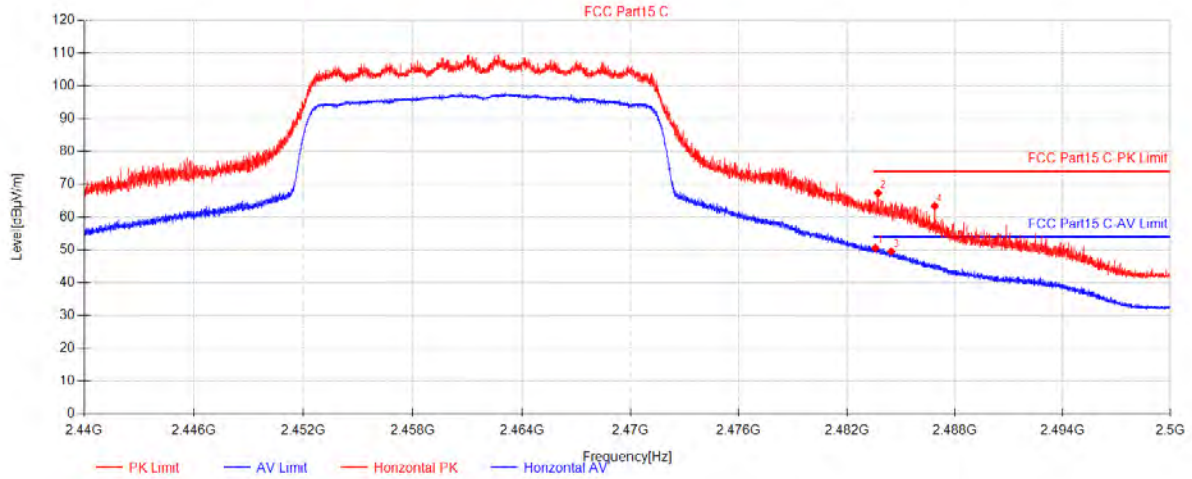


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802.11ax20\_Channel 11



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	2483.575	46.44	27.72	-23.54	50.61	54.00	3.39	215	61	Horizontal
2	2483.725	63.22	27.72	-23.54	67.39	74.00	6.61	215	61	Horizontal
3	2484.46	45.38	27.72	-23.54	49.55	54.00	4.45	215	61	Horizontal
4	2486.8825	59.16	27.73	-23.54	63.34	74.00	10.66	215	61	Horizontal

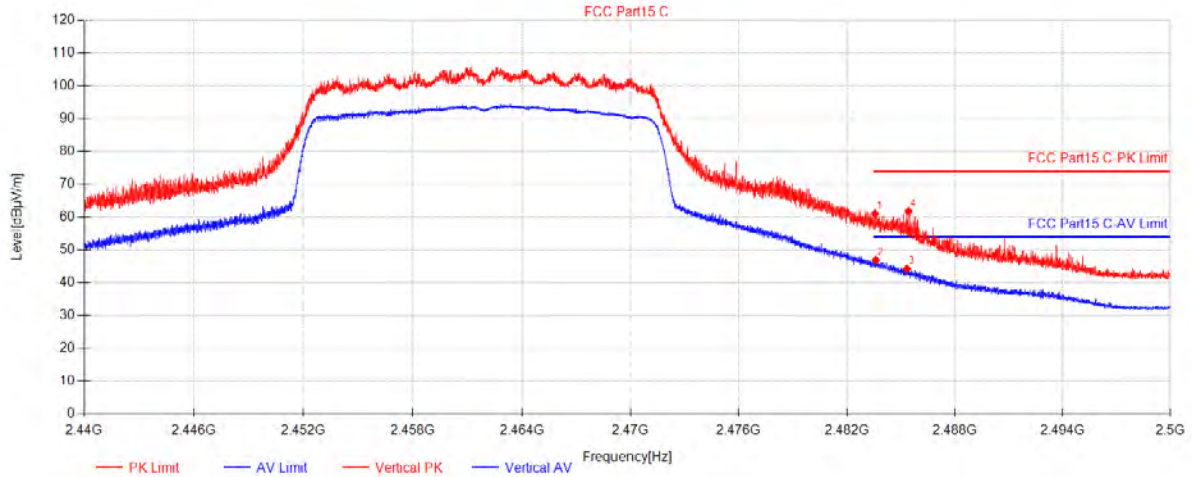


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802.11ax20\_Channel 11



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	2483.5525	56.89	27.72	-23.54	61.06	74.00	12.94	266	85	Vertical
2	2483.605	42.72	27.72	-23.54	46.89	54.00	7.11	266	85	Vertical
3	2485.33	40.07	27.72	-23.54	44.25	54.00	9.75	266	85	Vertical
4	2485.42	57.60	27.72	-23.54	61.78	74.00	12.22	266	85	Vertical



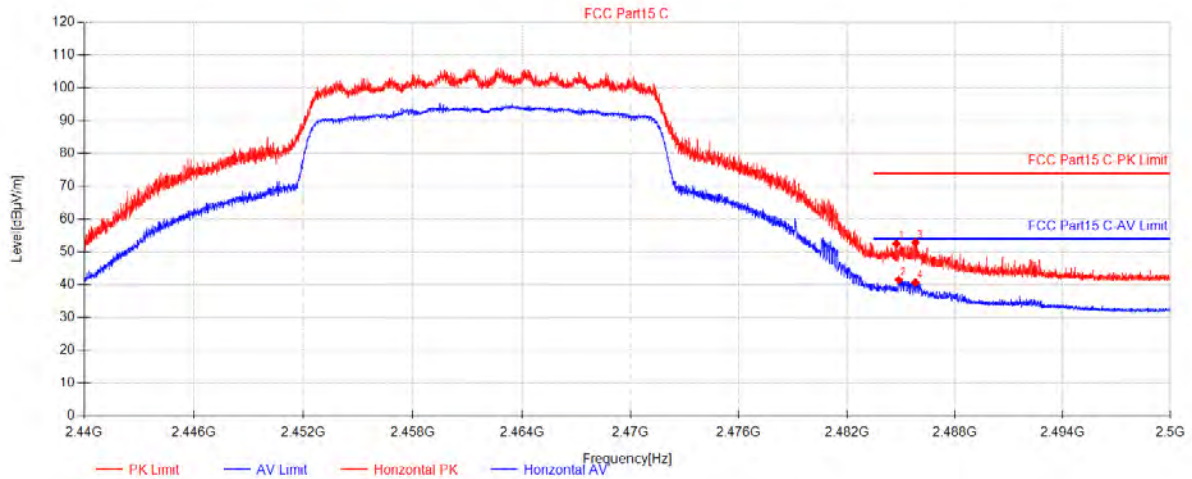
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**For Sample #2(Worst):**

**802.11ax20\_Channel 11**



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.745	48.34	27.72	-23.54	52.52	74.00	21.48	122	103	Horizontal
2	2484.88	37.29	27.72	-23.54	41.47	54.00	12.53	122	103	Horizontal
3	2485.8025	48.71	27.72	-23.54	52.89	74.00	21.11	122	103	Horizontal
4	2485.8025	36.50	27.72	-23.54	40.68	54.00	13.32	122	103	Horizontal

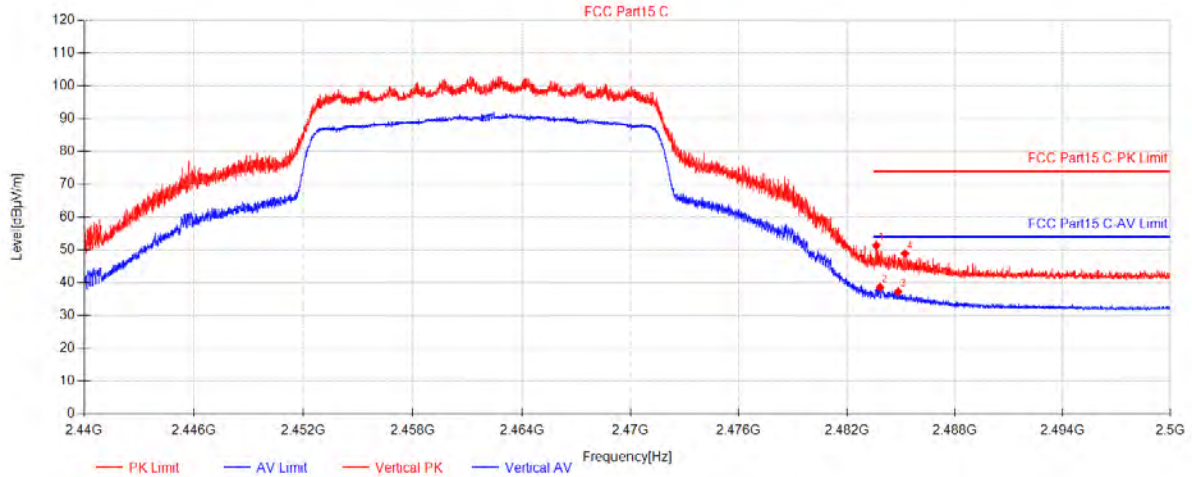


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802.11ax20\_Channel 11



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	2483.6275	47.24	27.72	-23.54	51.41	74.00	22.59	144	261	Vertical
2	2483.8375	34.46	27.72	-23.54	38.63	54.00	15.37	144	261	Vertical
3	2484.8425	33.10	27.72	-23.54	37.28	54.00	16.72	144	261	Vertical
4	2485.225	44.69	27.72	-23.54	48.87	74.00	25.13	144	261	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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