

Report No.: SUZR/2021/A002404

Rev.: 01

Page: 1 of 126

# TEST REPORT

**Application No.:** ZR/2021/A0024

**Applicant:** Great Talent Technology Limited

**Address of Applicant:** 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

**Manufacturer:** Great Talent Technology Limited

**Address of Manufacturer:** 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

**EUT Description:** Smart Phone

**Model No.:** TW102

**Trade Mark:** Treswave

**FCC ID:** 2ALZM-TW102

**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR Part 15, Subpart C

**Date of Receipt:** 2021/11/18

**Date of Test:** 2021/11/18 to 2022/1/7

**Date of Issue:** 2022/1/10

<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




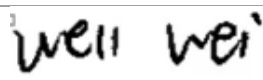
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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/1/10		Original

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



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## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. 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, Nature Shen, Tizzy Song

#### 3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number:0031225543



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### 3.4 General Description of EUT

EUT Description:	Smart Phone										
Model No.:	TW102										
Trade Mark:	Treswave										
Hardware Version:	Q6005_V1.0										
Software Version:	TW102.00.02.105404										
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth)										
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$ , where: $-f_c = \text{"Operating Frequency"}$ in MHz, $-N = \text{"Channel Number"}$ with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.										
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g : OFDM IEEE for 802.11n(HT20): OFDM IEEE for 802.11n(HT40): OFDM										
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module										
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated										
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3										
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input type="checkbox"/> MIMO (for 802.11b/g/n): Tx & Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx										
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by applicant 1.20dBi										
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">0.5dB(0.6~1GHz)</td> <td style="width:25%;">0.8dB(1.4~2GHz)</td> <td style="width:25%;">1.0dB(2.1~2.7GHz)</td> <td style="width:25%;"></td> </tr> <tr> <td>1.5dB(3~4GHz)</td> <td>1.8dB(4.4~6GHz)</td> <td></td> <td></td> </tr> </table>			0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)		1.5dB(3~4GHz)	1.8dB(4.4~6GHz)		
0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)									
1.5dB(3~4GHz)	1.8dB(4.4~6GHz)										
Remark:	<p>*Since the above data and/or information is provided by the applicant 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>										



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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		
Operation Frequency of each channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
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)			Frequency for 802.11n (HT40)			
The Lowest channel	2412MHz			2422MHz			
The Middle channel	2437MHz			2437MHz			
The Highest channel	2462MHz			2452MHz			



### 3.5 Test Environment and Mode

Environment Parameter	101kpa Selected Values During Tests	
Relative Humidity	44~46% RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTNV	-10	3.8
HTNV	55	3.8

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature  
 LT: Low Extreme Test Temperature  
 HT: High Extreme Test Temperature

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<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 integrated and no consideration of replacement. The best case gain of the antenna is 1.20dBi.</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		
Test Frequency Range:	150kHz to 30MHz		
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>Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. 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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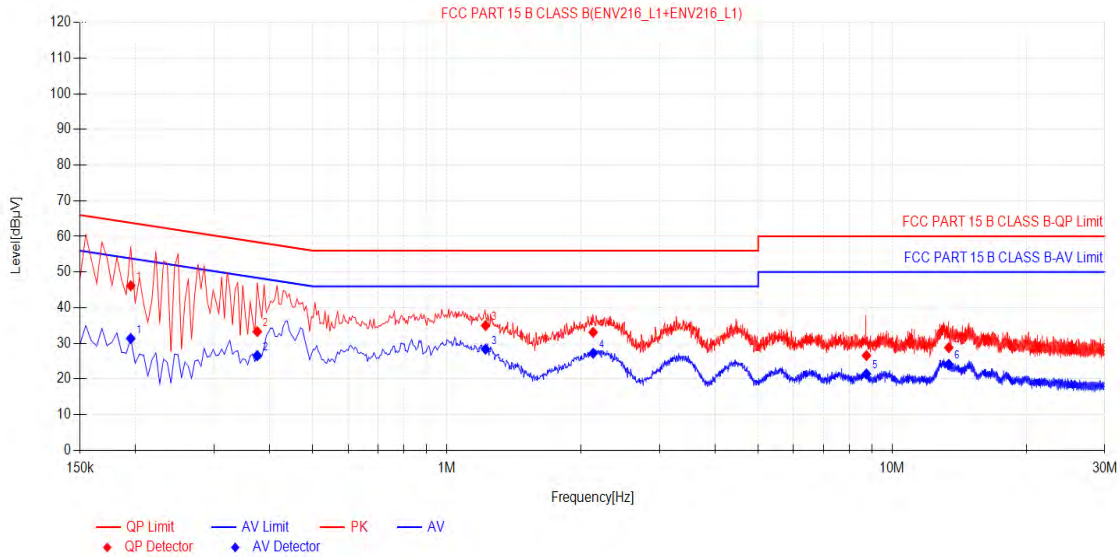
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**Measurement Data**

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.

**Live Line:**



Final Data List								
NO.	Frequency [MHz]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1950	46.14	63.82	17.68	31.37	53.82	22.45	PASS
2	0.3750	33.30	58.39	25.09	26.56	48.39	21.83	PASS
3	1.2210	35.00	56.00	21.00	28.36	46.00	17.64	PASS
4	2.1300	33.10	56.00	22.90	27.23	46.00	18.77	PASS
5	8.7495	26.58	60.00	33.42	21.43	50.00	28.57	PASS
6	13.3980	28.81	60.00	31.19	24.11	50.00	25.89	PASS

**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

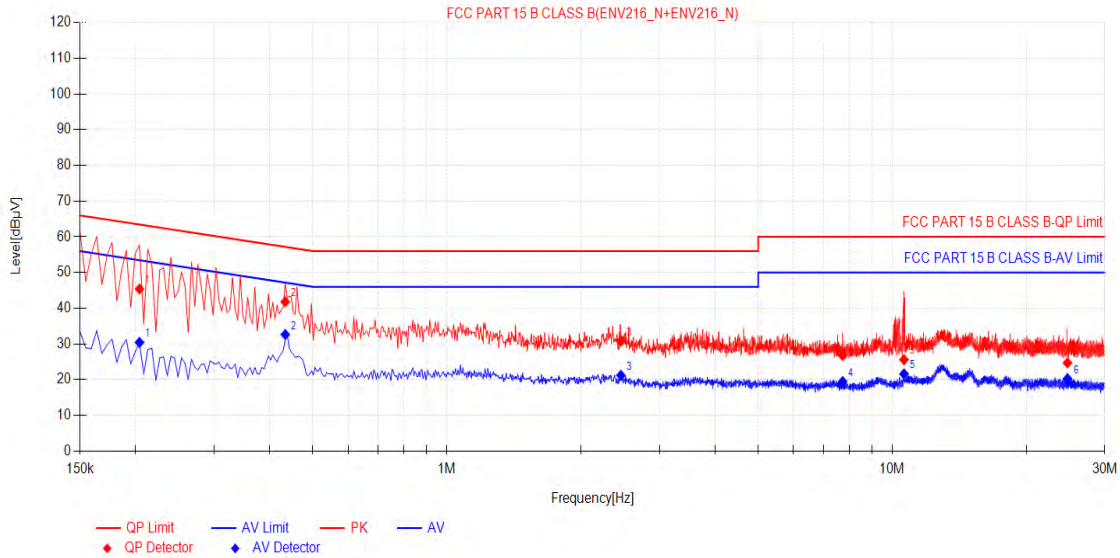


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Neutral Line:



Final Data List								
NO.	Frequency [MHz]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.2040	45.40	63.45	18.05	30.44	53.45	23.01	PASS
2	0.4335	41.81	57.19	15.38	32.63	47.19	14.56	PASS
3	2.4585	30.77	56.00	25.23	21.22	46.00	24.78	PASS
4	7.7370	26.79	60.00	33.21	19.48	50.00	30.52	PASS
5	10.6260	25.60	60.00	34.40	21.60	50.00	28.40	PASS
6	24.7470	24.71	60.00	35.29	20.28	50.00	29.72	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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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 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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)				
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	10Hz (DC≥0.98) ≥1/T (DC<0.98)	Average	
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:

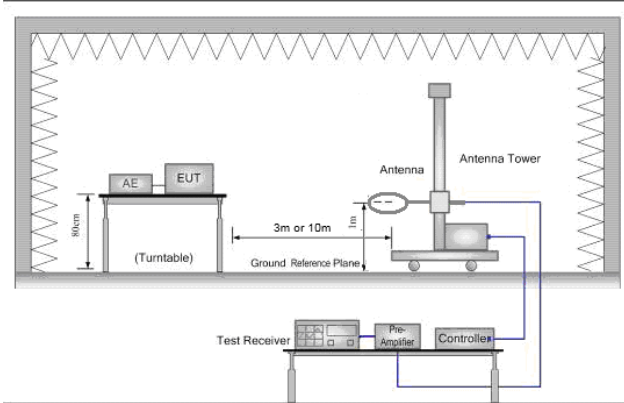


Figure 1. Below 30MHz

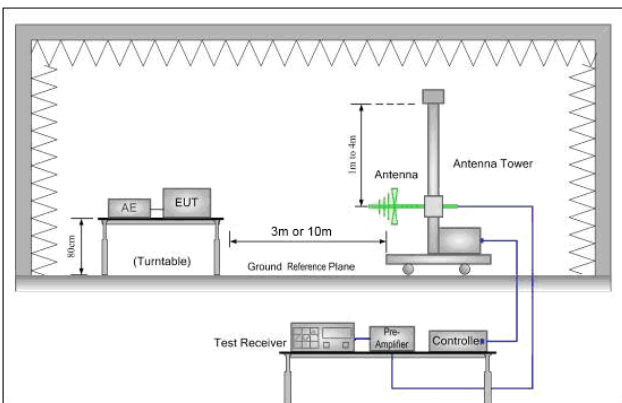


Figure 2. 30MHz to 1GHz

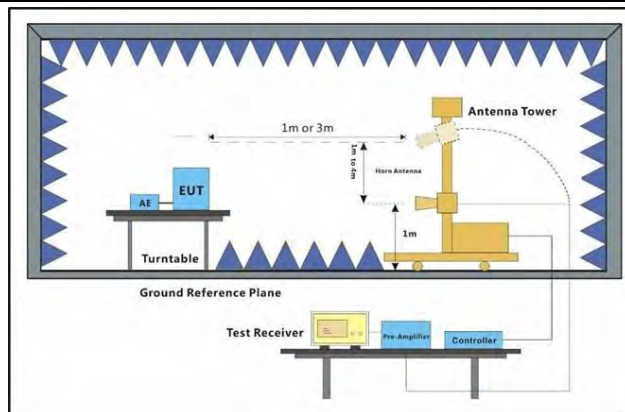


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT



	<p>would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</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 ≥ 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 = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11b;</p> <p>6Mbps of rate is the worst case of 802.11g;</p> <p>6.5Mbps of rate is the worst case of 802.11n(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11n(HT40);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
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:

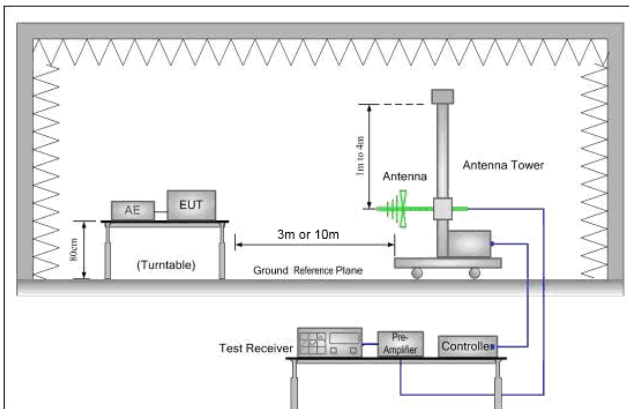


Figure 1. 30MHz to 1GHz

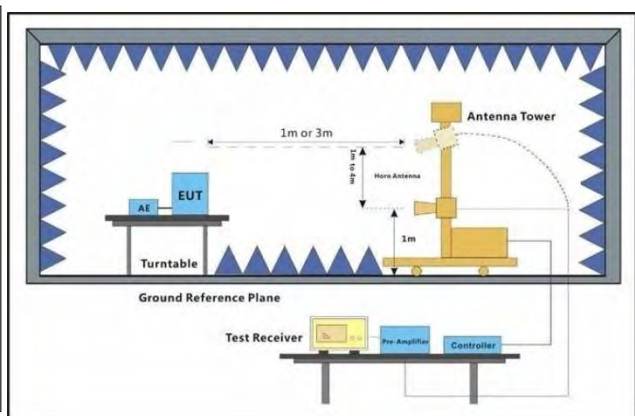


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. 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 = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the</p>



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	1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
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	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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## 6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Power Meter	Anritsu	ML2495A	2129005	2021/12/22	2022/12/21
Power Sensor	Anritsu	MA2411B	1911397	2021/12/22	2022/12/21
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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**DTS Bandwidth  
Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.610	2407.920	2416.530	0.5	PASS
		2437	8.130	2432.920	2441.050	0.5	PASS
		2462	9.090	2457.440	2466.530	0.5	PASS
11G	Ant1	2412	16.440	2403.780	2420.220	0.5	PASS
		2437	16.410	2428.780	2445.190	0.5	PASS
		2462	16.410	2453.780	2470.190	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.180	2420.820	0.5	PASS
		2437	17.640	2428.180	2445.820	0.5	PASS
		2462	17.640	2453.150	2470.790	0.5	PASS
11N40SISO	Ant1	2422	35.160	2404.420	2439.580	0.5	PASS
		2437	35.280	2419.360	2454.640	0.5	PASS
		2452	35.280	2434.360	2469.640	0.5	PASS



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Test Graphs

11B Ant1 2412



14:11:30 01.12.2021

11B Ant1 2437



14:33:39 01.12.2021



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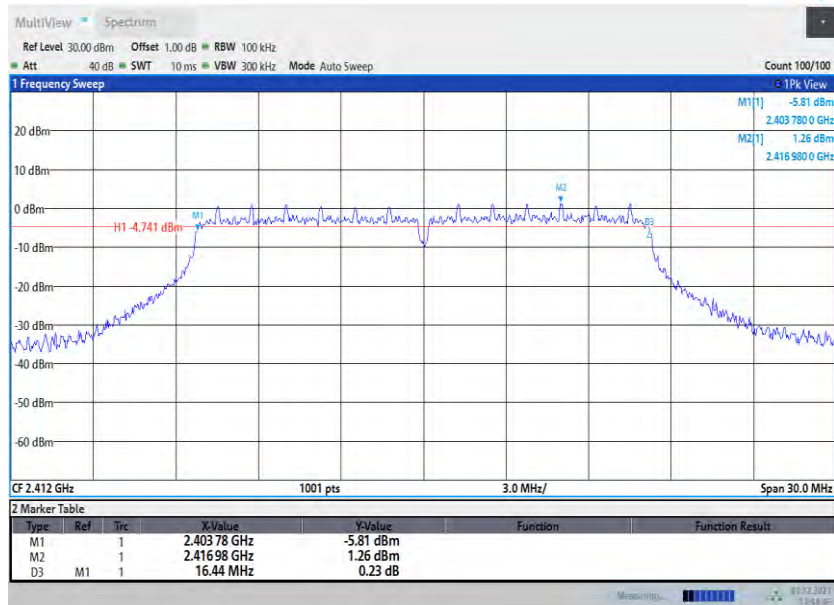


11B\_Ant1\_2462



14:35:16 01.12.2021

11G\_Ant1\_2412



14:48:46 01.12.2021



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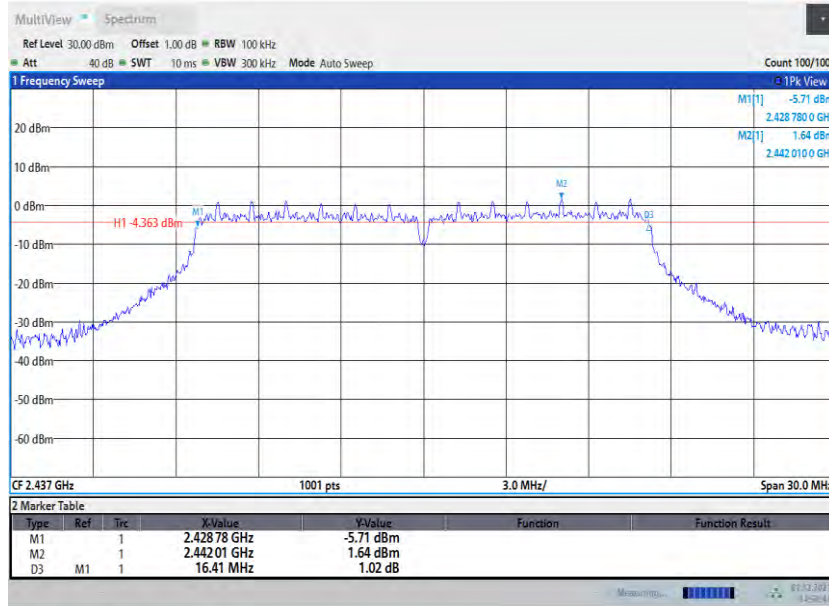
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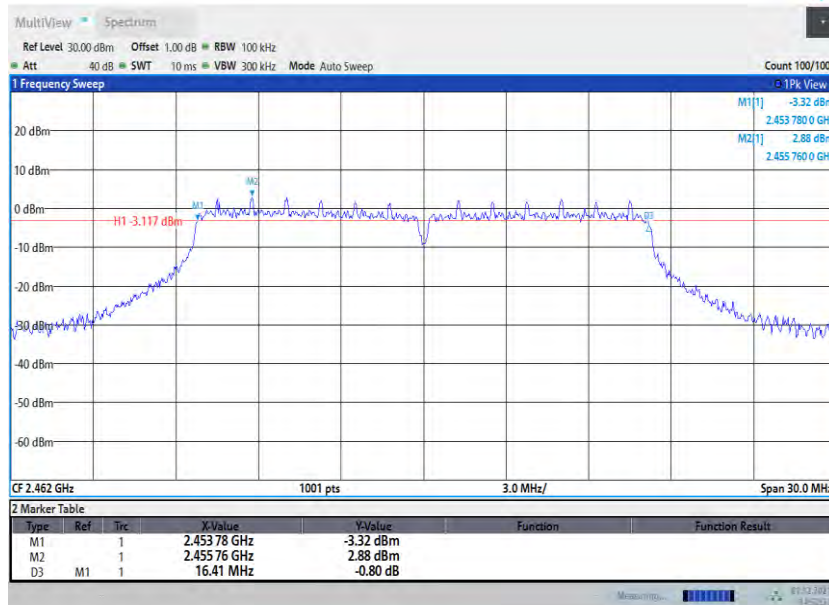


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14:50:41 01.12.2021

11G\_Ant1\_2462



14:52:33 01.12.2021



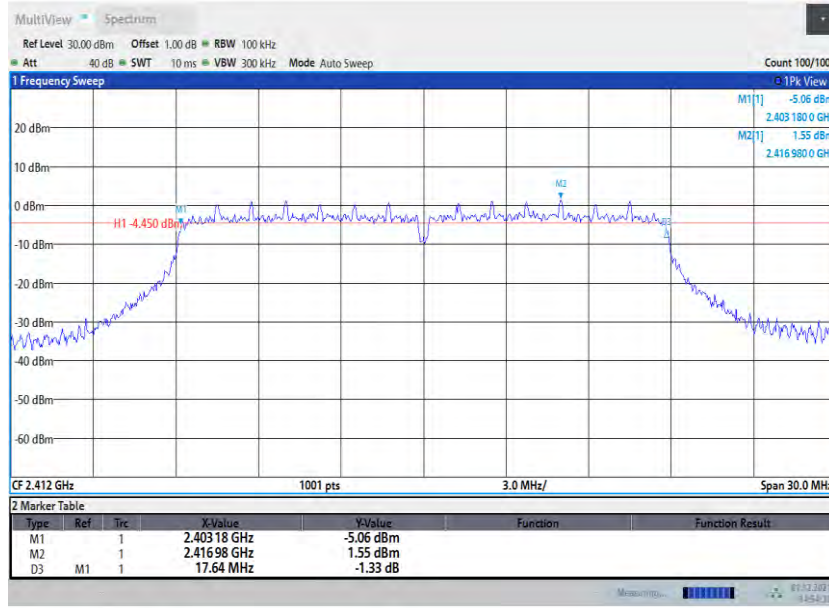
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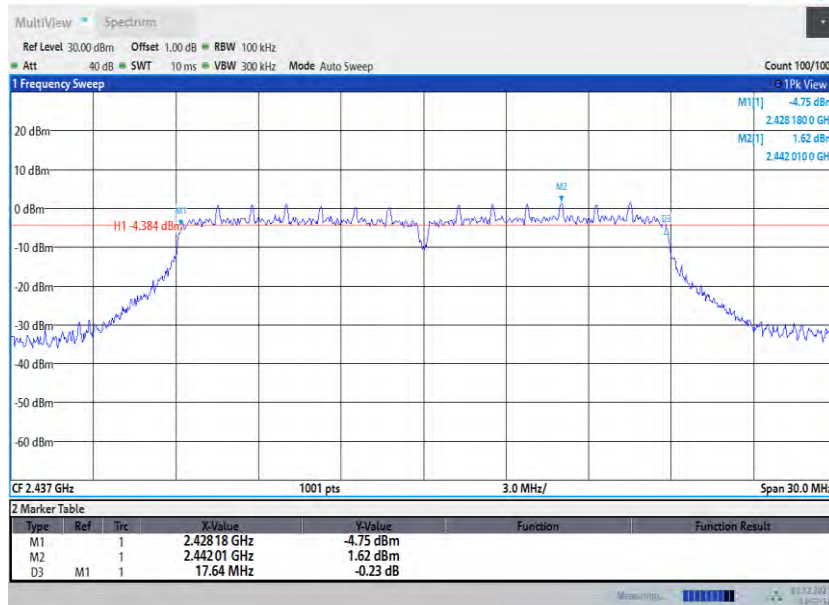
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11N20SISO\_Ant1\_2412



14:54:32 01.12.2021

11N20SISO\_Ant1\_2437



14:57:35 01.12.2021

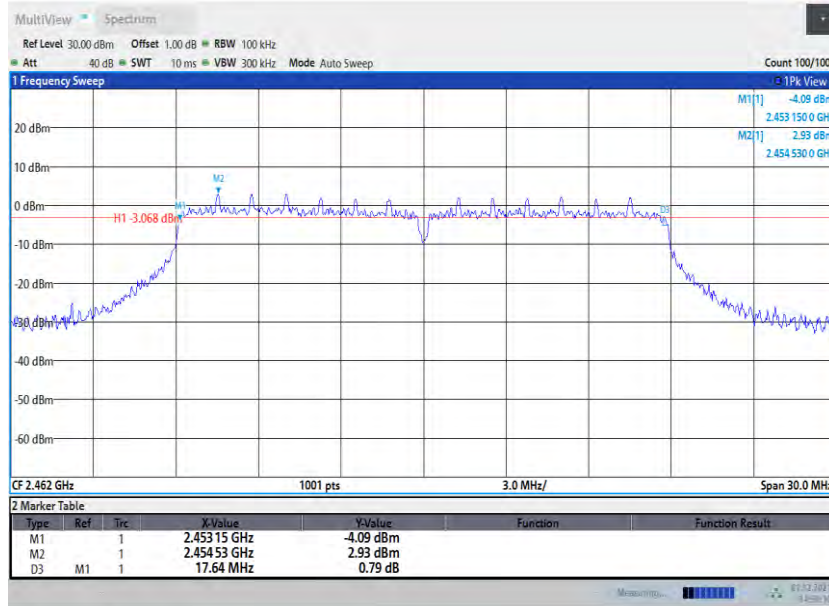


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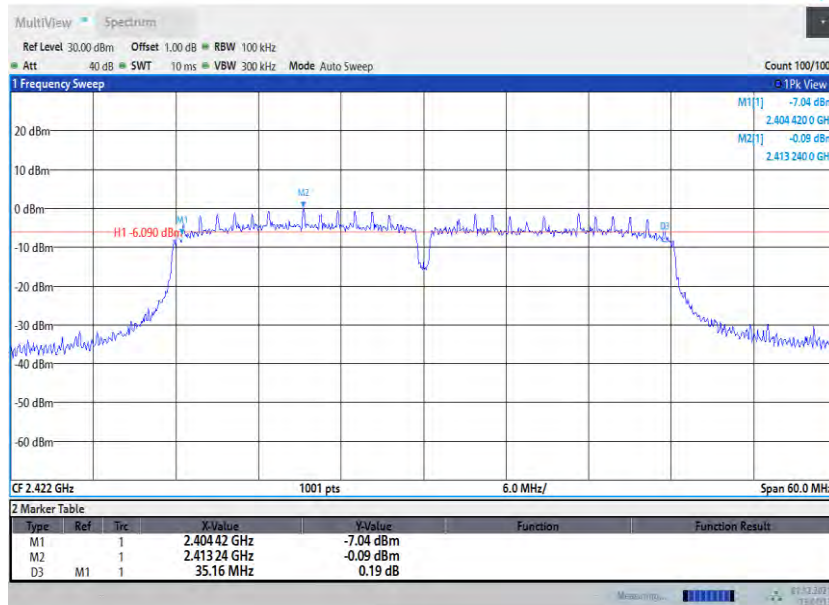
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11N20SISO\_Ant1\_2462



14:59:11 01.12.2021

11N40SISO\_Ant1\_2422



15:01:14 01.12.2021



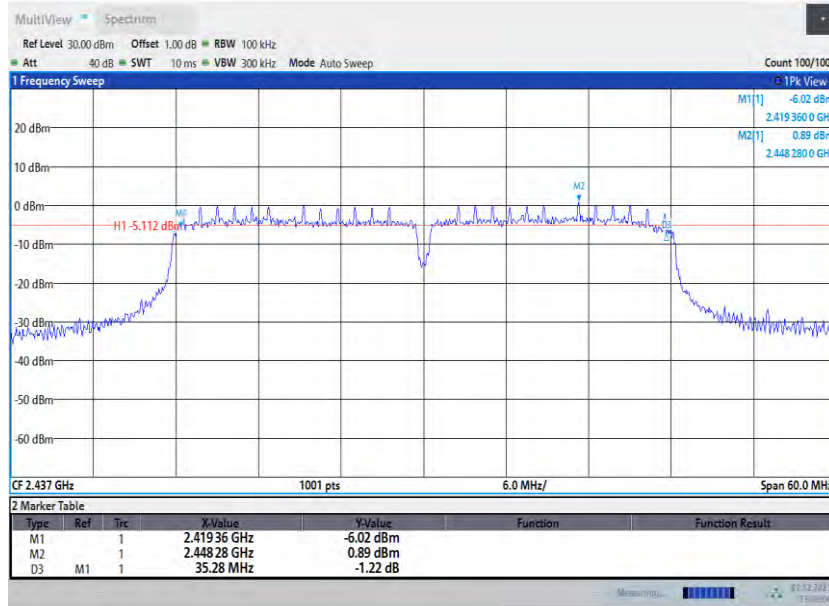
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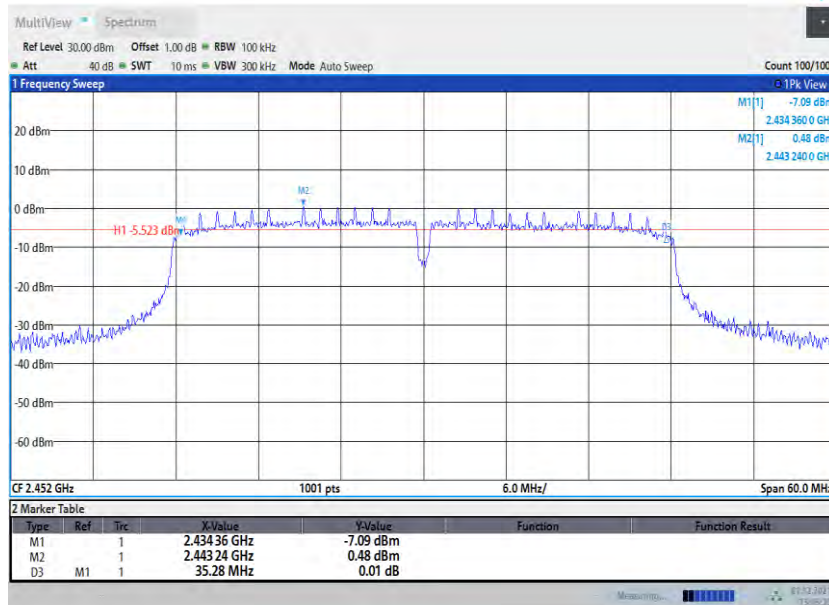


11N40SISO\_Ant1\_2437



15:03:06 01.12.2021

11N40SISO\_Ant1\_2452



15:05:29 01.12.2021



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## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.325	2405.372	2418.698	---	PASS
		2437	13.473	2430.318	2443.790	---	PASS
		2462	13.627	2455.056	2468.682	---	PASS
11G	Ant1	2412	17.177	2403.398	2420.574	---	PASS
		2437	17.374	2428.328	2445.702	---	PASS
		2462	17.42	2453.174	2470.594	---	PASS
11N20SISO	Ant1	2412	18.124	2402.939	2421.063	---	PASS
		2437	18.268	2427.883	2446.150	---	PASS
		2462	18.328	2452.771	2471.099	---	PASS
11N40SISO	Ant1	2422	37.018	2403.511	2440.529	---	PASS
		2437	37.3	2418.257	2455.557	---	PASS
		2452	36.92	2433.478	2470.398	---	PASS



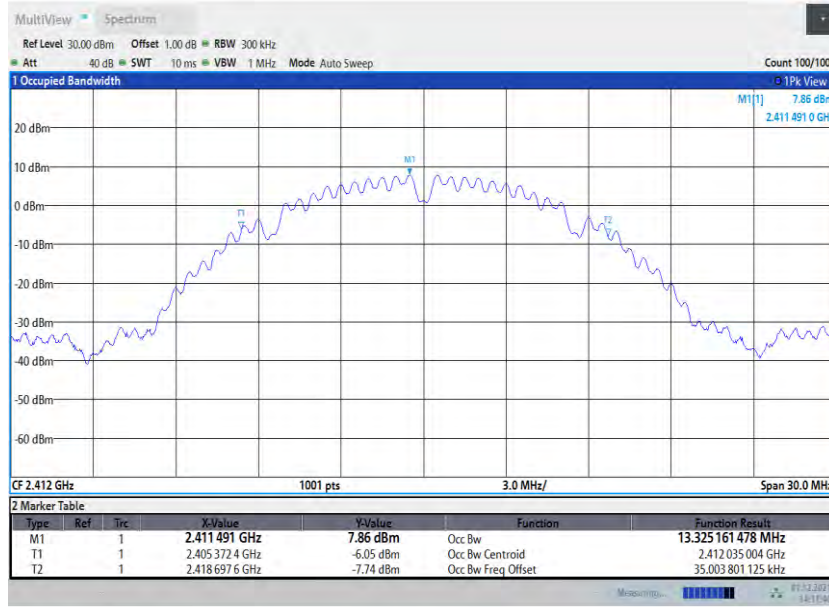
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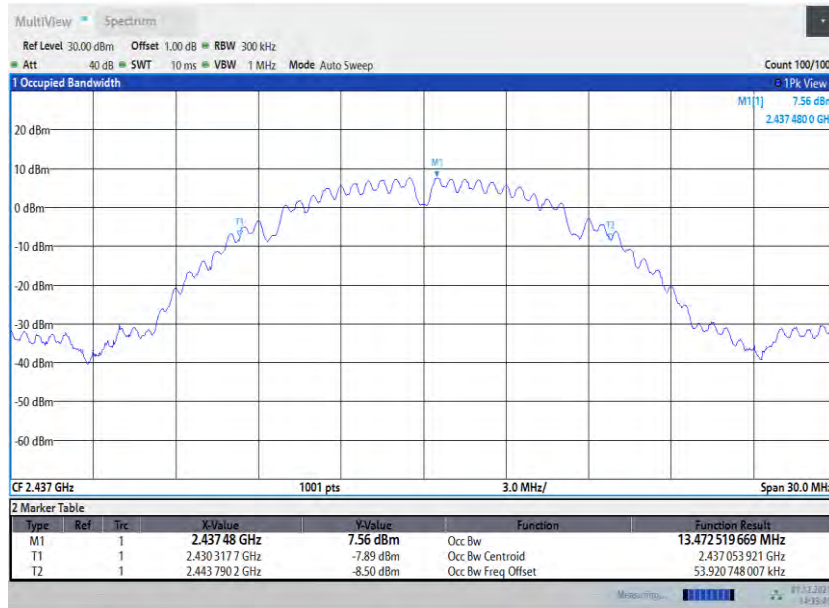
Test Graphs

11B Ant1 2412



14:11:41 01.12.2021

11B Ant1 2437



14:33:50 01.12.2021



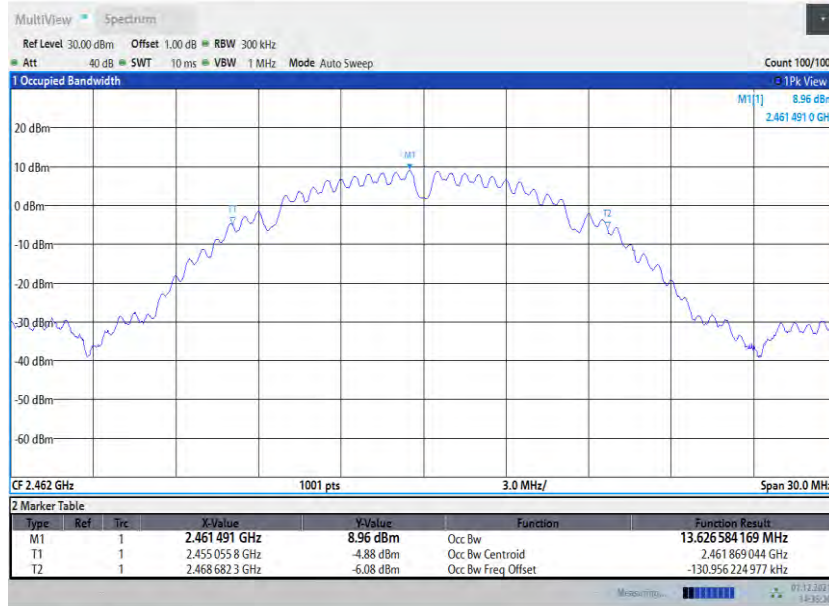
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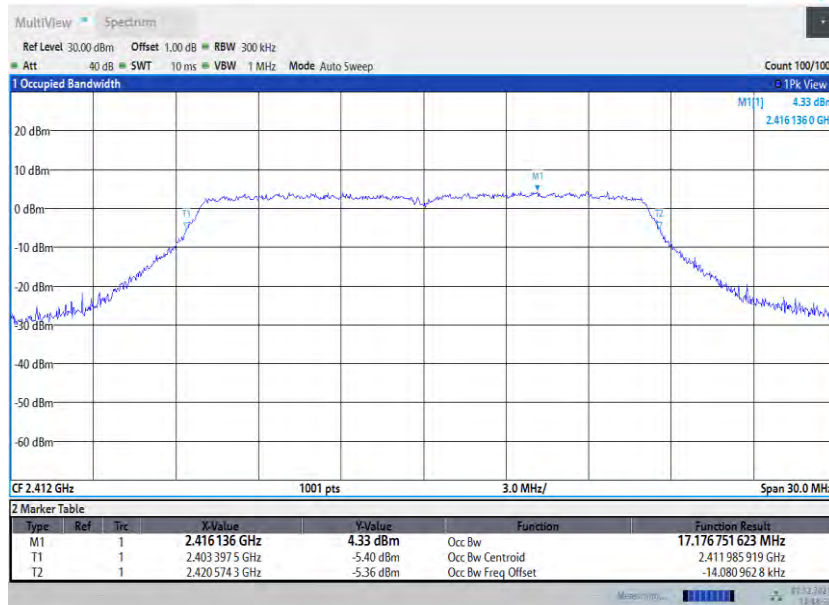
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11B\_Ant1\_2462



14:35:27 01.12.2021

11G\_Ant1\_2412



14:48:57 01.12.2021



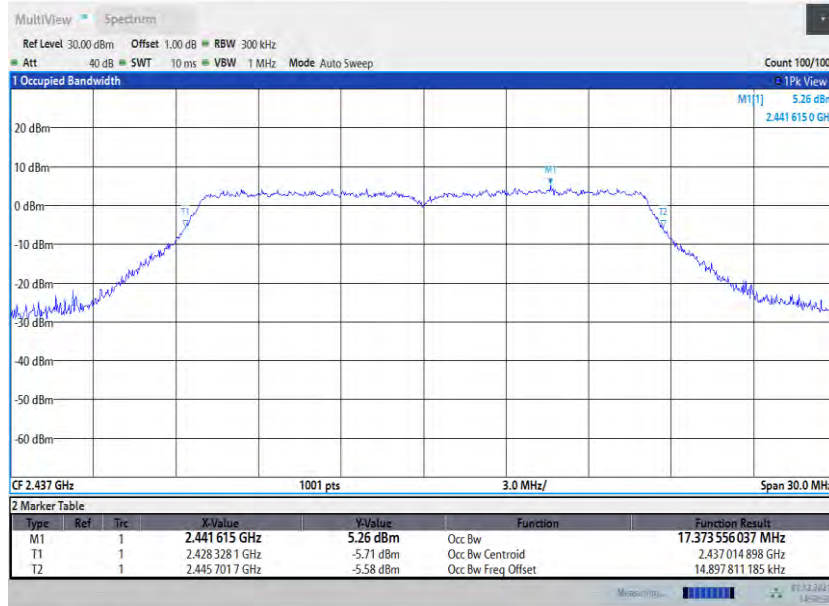
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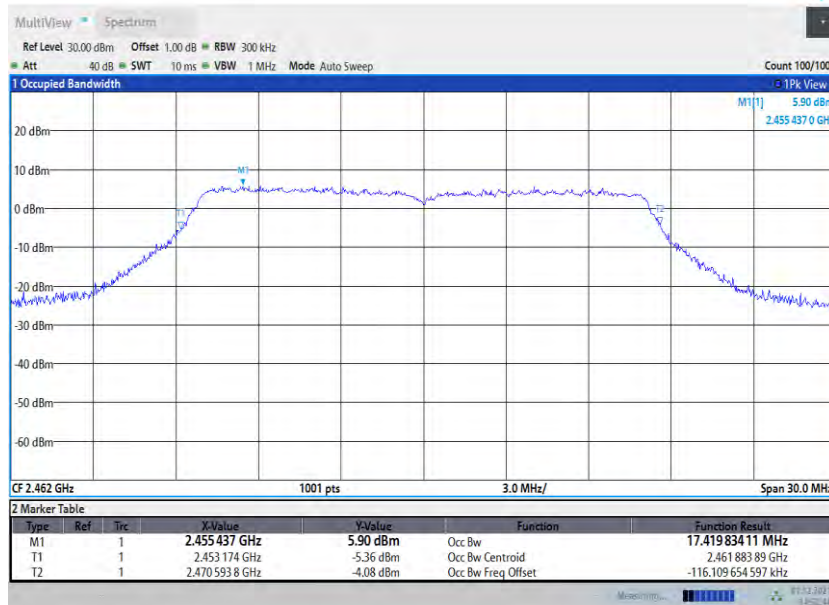


11G\_Ant1\_2437



14:50:53 01.12.2021

11G\_Ant1\_2462



14:52:44 01.12.2021



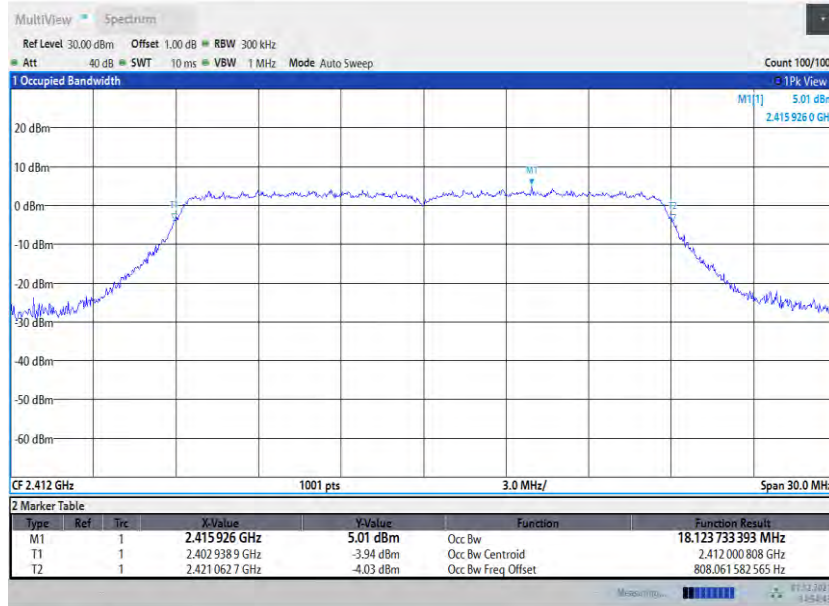
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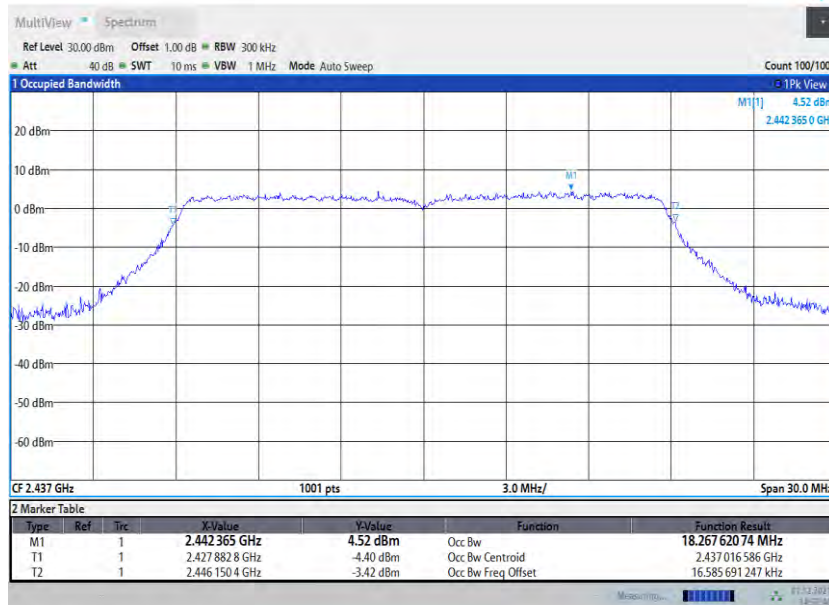


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11N20SISO\_Ant1\_2437



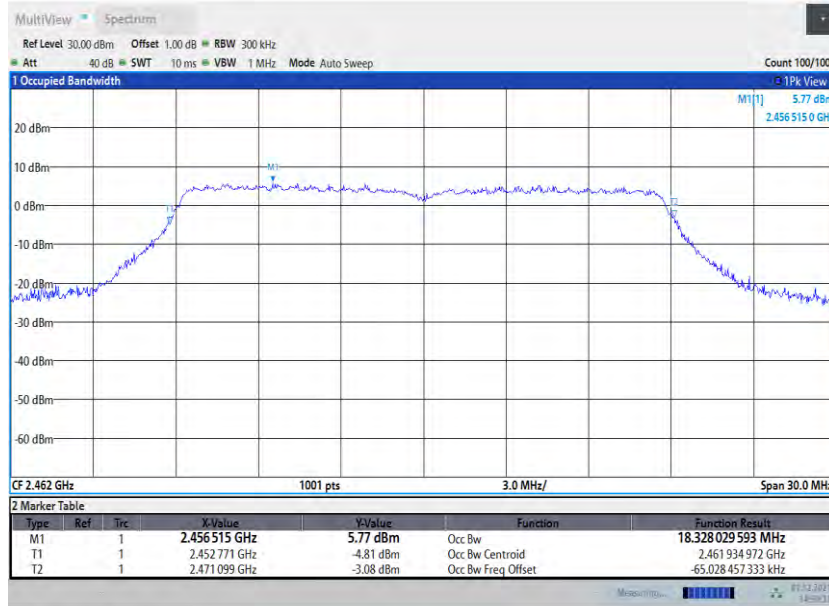
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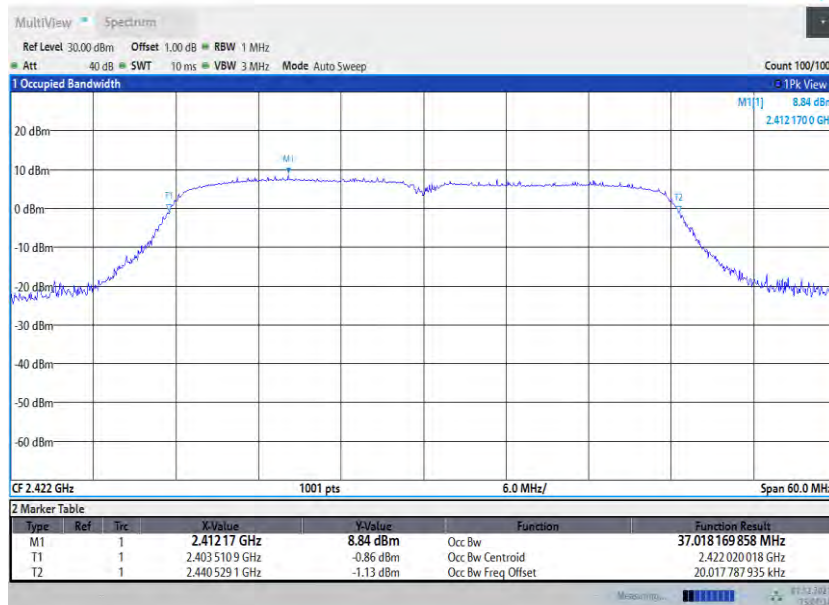
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14:59:22 01.12.2021

11N40SISO\_Ant1\_2422



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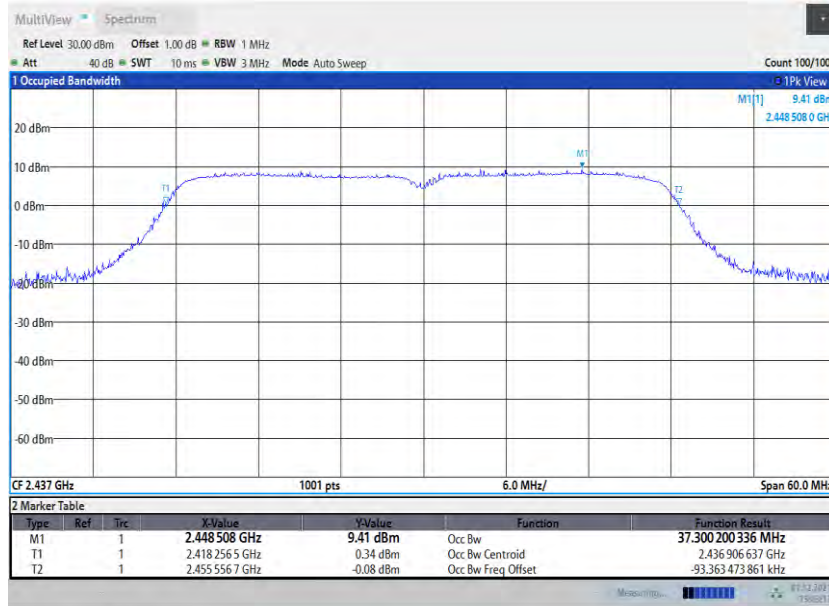
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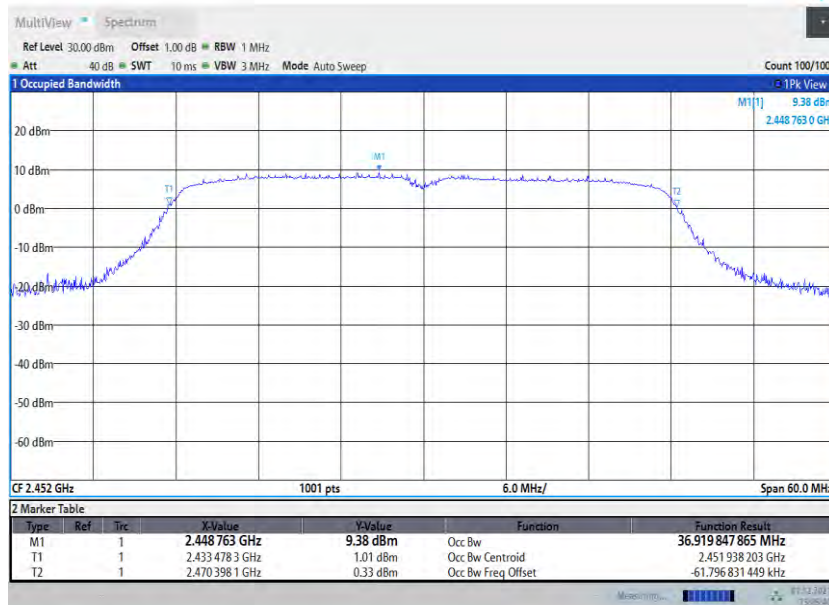
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11N40SISO\_Ant1\_2437



15:03:18 01.12.2021

11N40SISO\_Ant1\_2452



15:05:41 01.12.2021



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**Maximum conducted output power  
Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.44	<=30	PASS
		2437	18.32	<=30	PASS
		2462	19.63	<=30	PASS
11G	Ant1	2412	20.54	<=30	PASS
		2437	20.61	<=30	PASS
		2462	21.73	<=30	PASS
11N20SISO	Ant1	2412	20.57	<=30	PASS
		2437	20.71	<=30	PASS
		2462	21.82	<=30	PASS
11N40SISO	Ant1	2422	21.29	<=30	PASS
		2437	22.46	<=30	PASS
		2452	22.30	<=30	PASS



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**Maximum power spectral density  
Test Result**

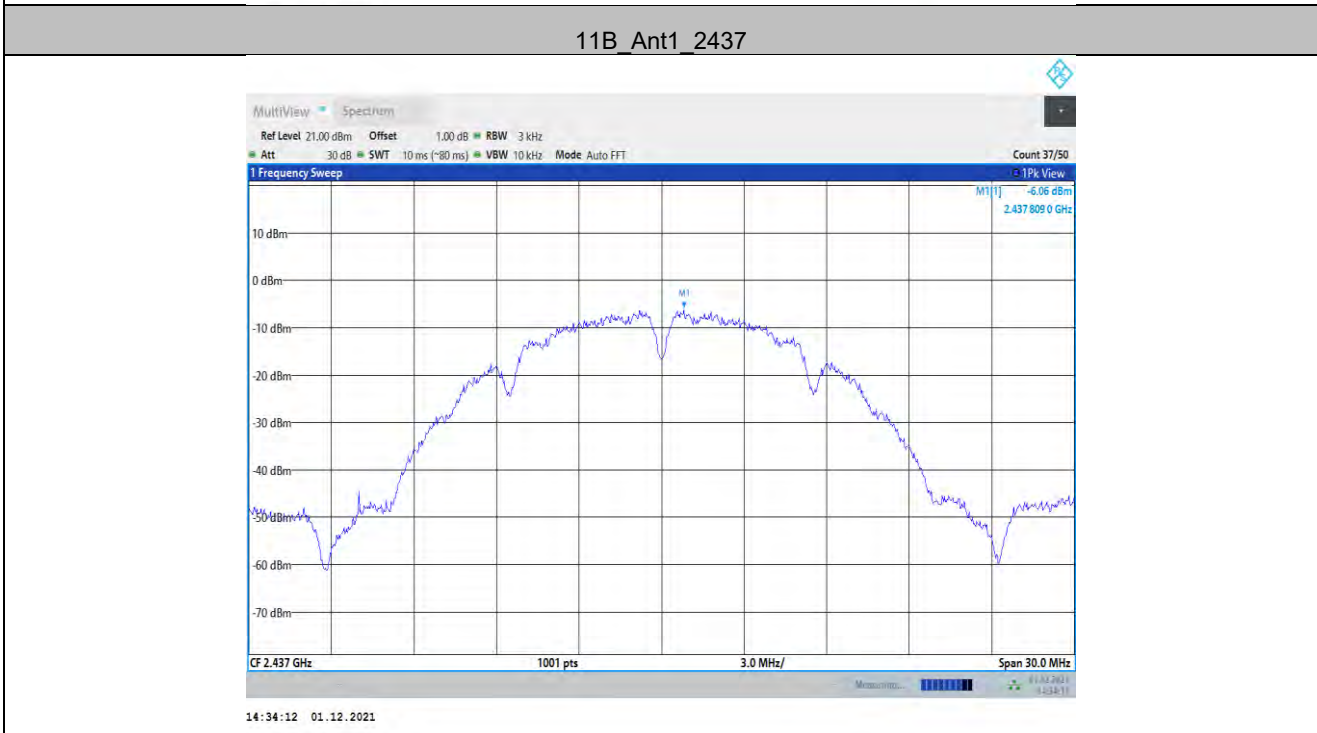
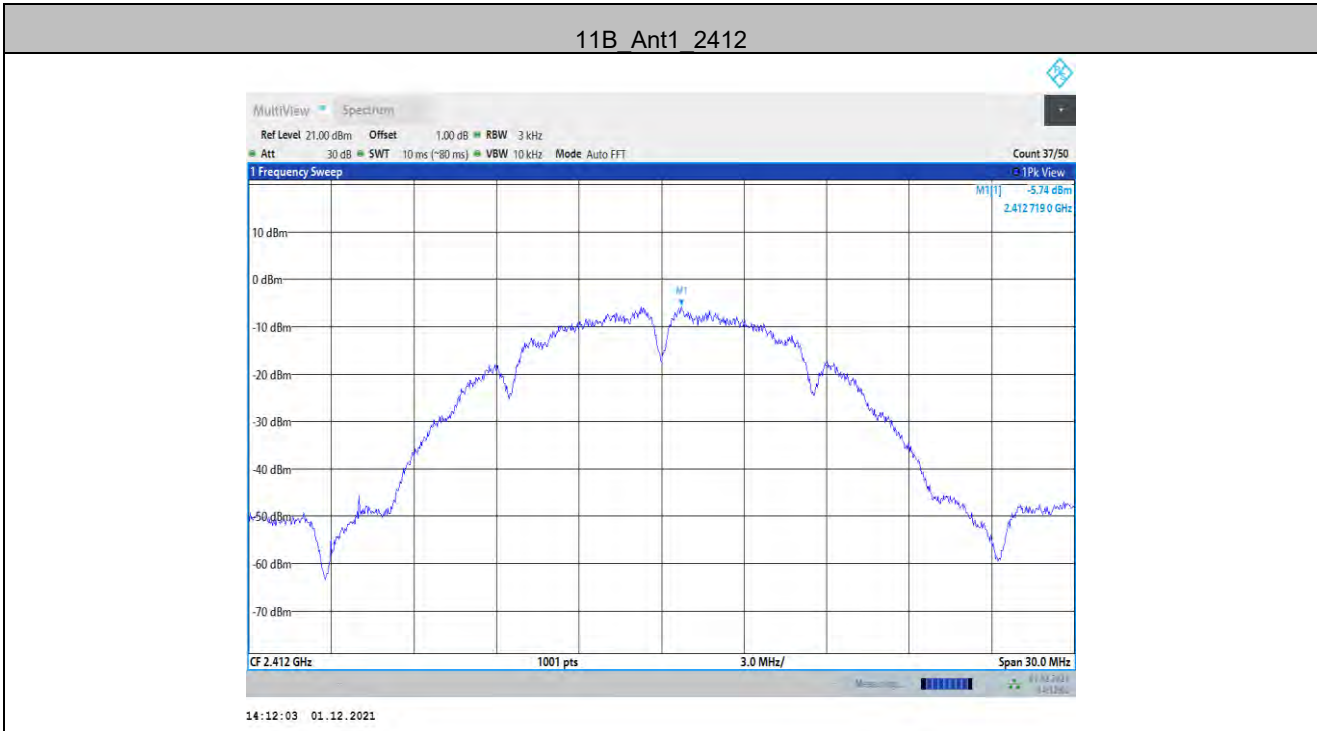
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.74	<=8	PASS
		2437	-6.06	<=8	PASS
		2462	-4.98	<=8	PASS
11G	Ant1	2412	-11.07	<=8	PASS
		2437	-11.77	<=8	PASS
		2462	-10.03	<=8	PASS
11N20SISO	Ant1	2412	-11.92	<=8	PASS
		2437	-10.51	<=8	PASS
		2462	-10.71	<=8	PASS
11N40SISO	Ant1	2422	-13.52	<=8	PASS
		2437	-13.43	<=8	PASS
		2452	-14.06	<=8	PASS



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Test Graphs

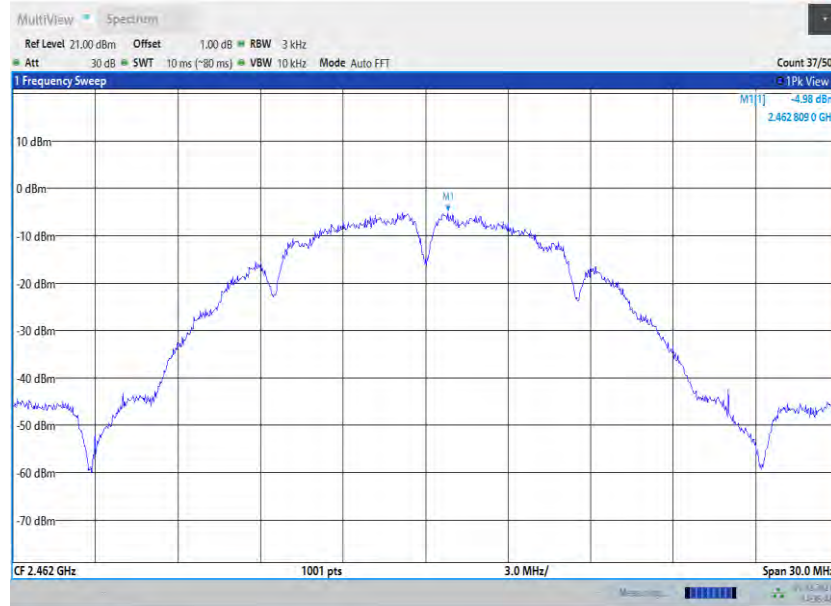


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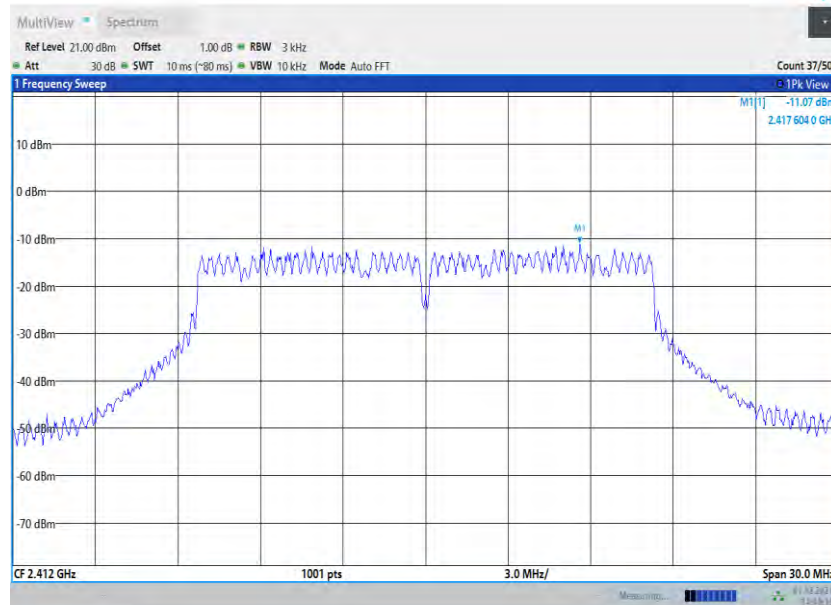
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11B\_Ant1\_2462



14:35:49 01.12.2021

11G\_Ant1\_2412



14:49:20 01.12.2021



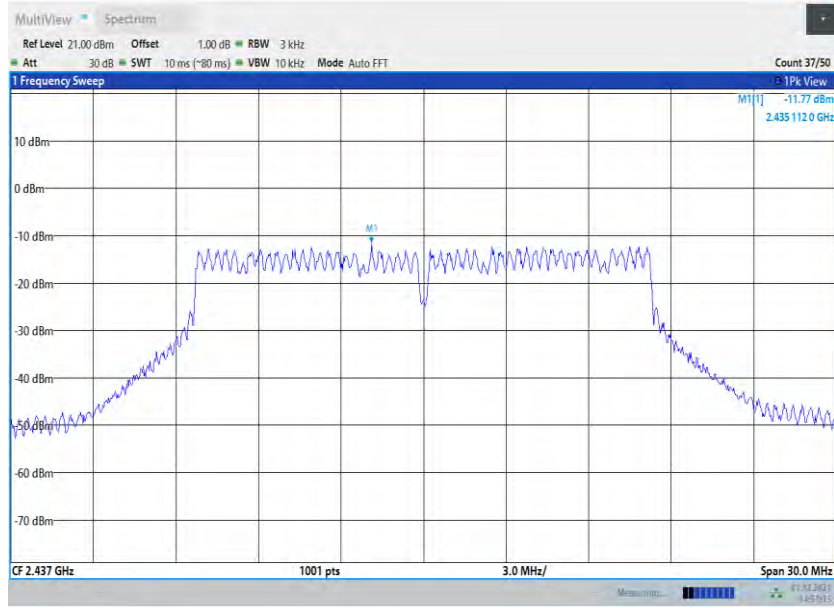
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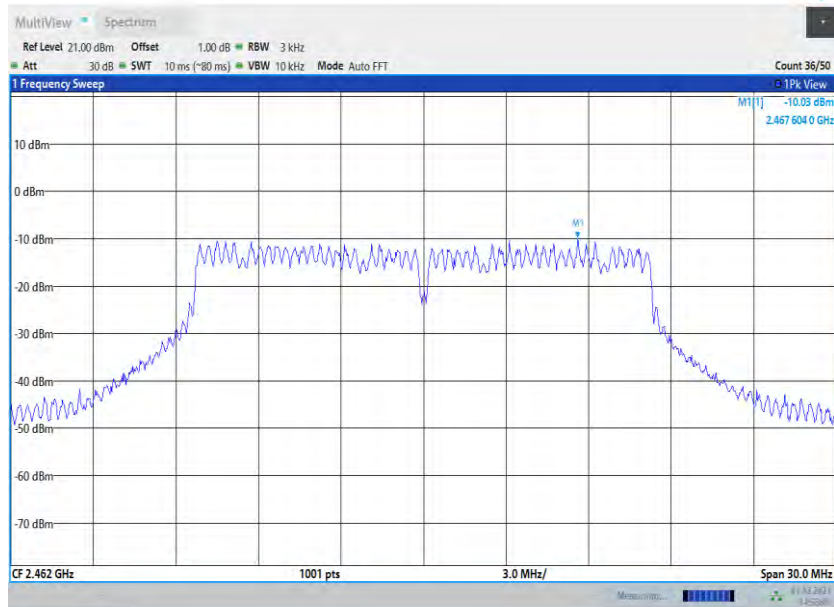


11G\_Ant1\_2437



14:51:15 01.12.2021

11G\_Ant1\_2462



14:53:07 01.12.2021



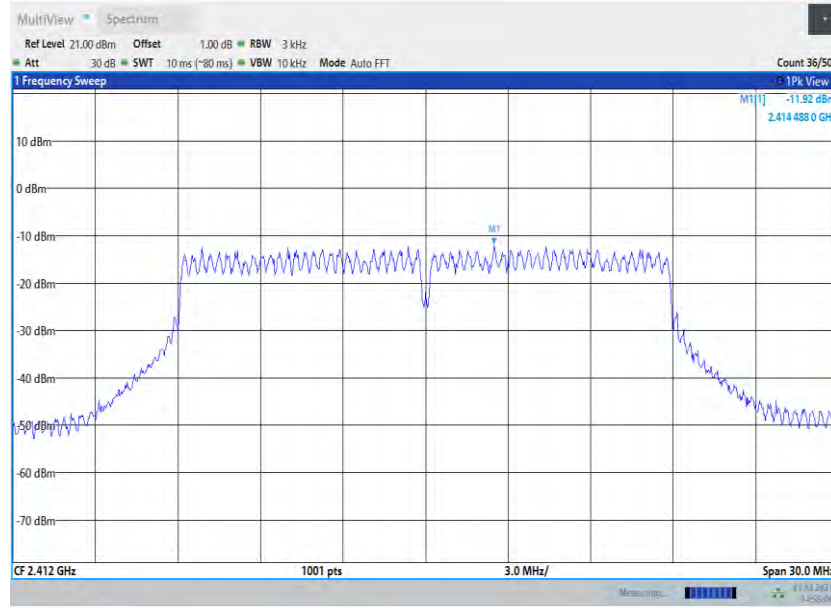
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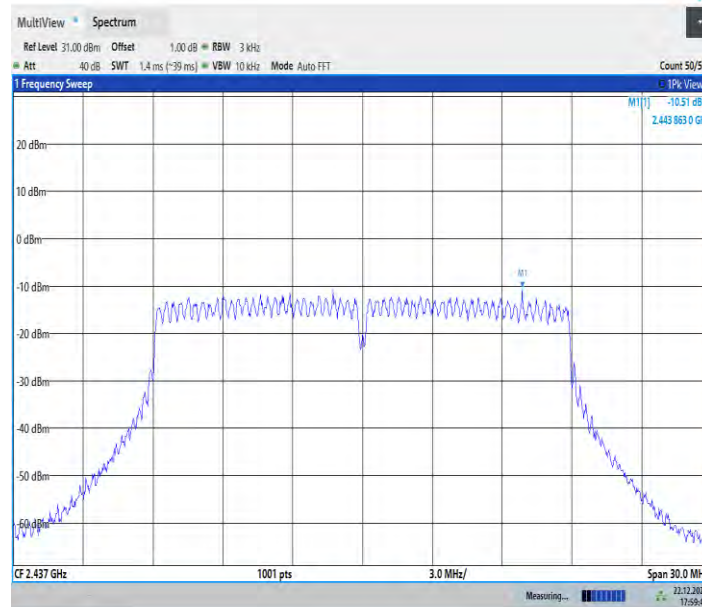
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### 11N20SISO\_Ant1\_2412



### 11N20SISO\_Ant1\_2437

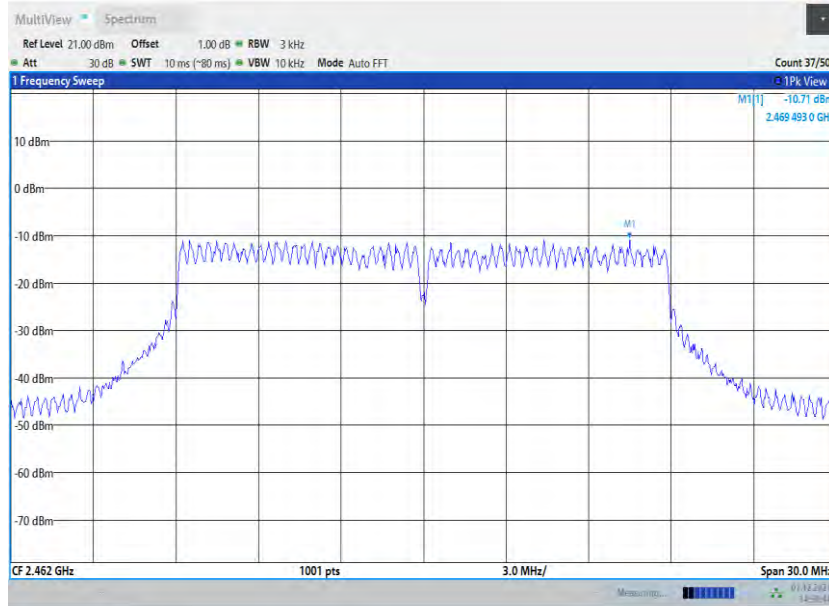


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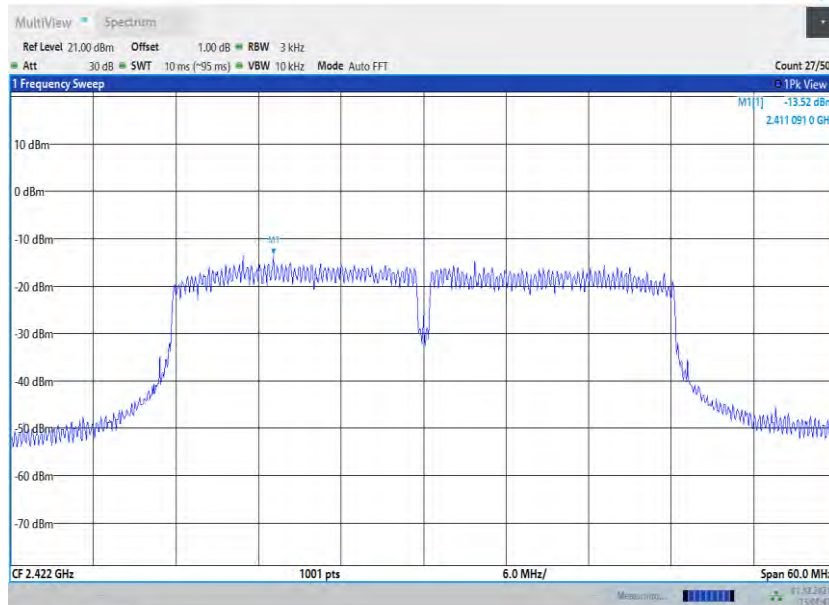
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11N20SISO\_Ant1\_2462



14:59:44 01.12.2021

11N40SISO\_Ant1\_2422



15:01:47 01.12.2021

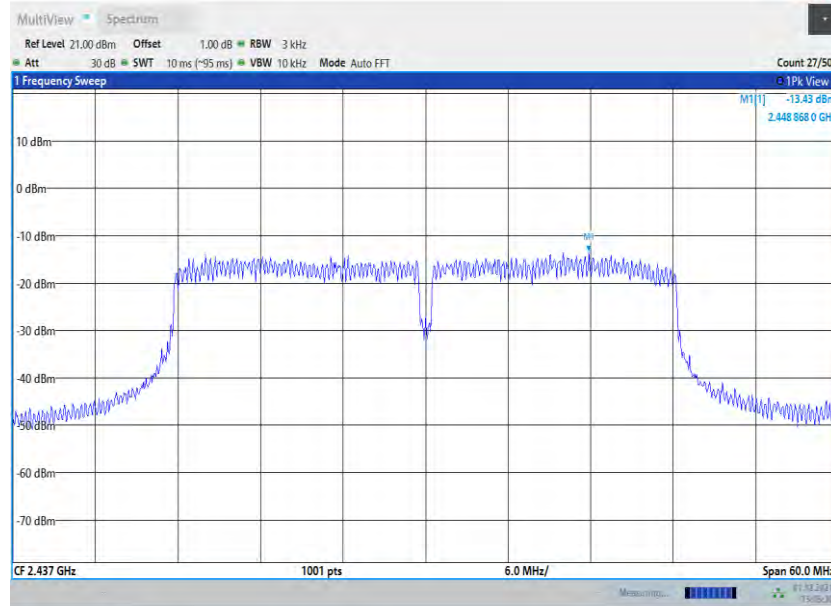


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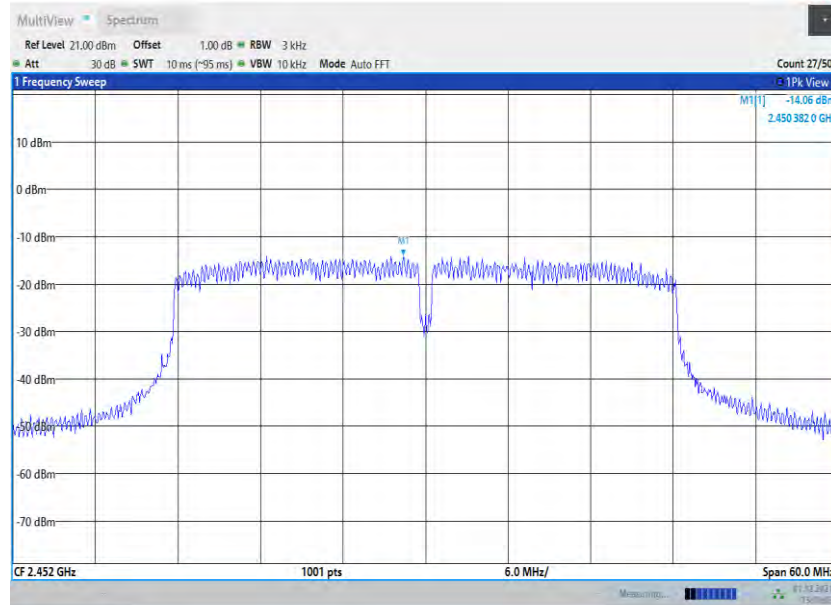
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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## Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.60	-36.24	<=-12.4	PASS
		High	2462	8.23	-54.71	<=-11.77	PASS
11G	Ant1	Low	2412	1.63	-30.71	<=-18.37	PASS
		High	2462	2.79	-41.02	<=-17.21	PASS
11N20SISO	Ant1	Low	2412	1.41	-31.5	<=-18.59	PASS
		High	2462	2.91	-38.65	<=-17.09	PASS
11N40SISO	Ant1	Low	2422	-0.44	-31.2	<=-20.44	PASS
		High	2452	0.33	-31.87	<=-19.67	PASS



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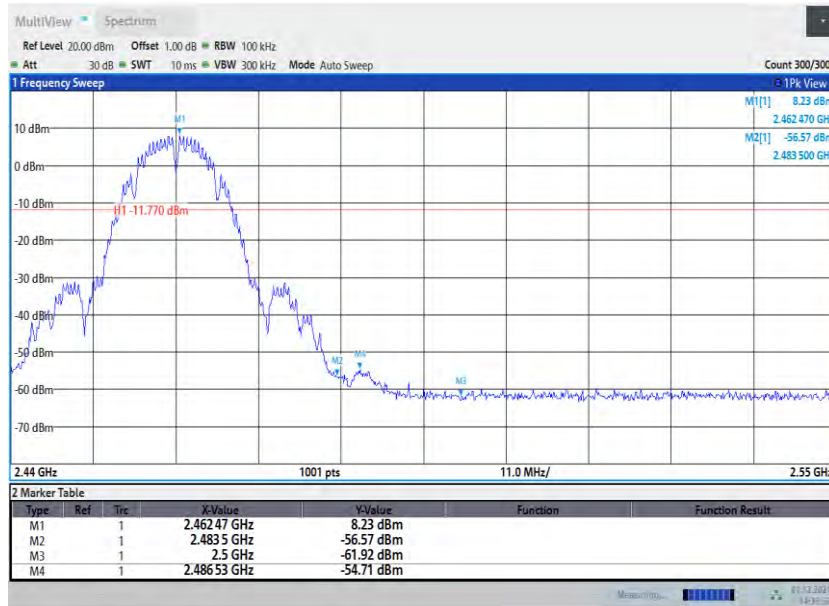
Test Graphs

11B Ant1 Low 2412



14:12:12 01.12.2021

11B Ant1 High 2462



14:35:58 01.12.2021



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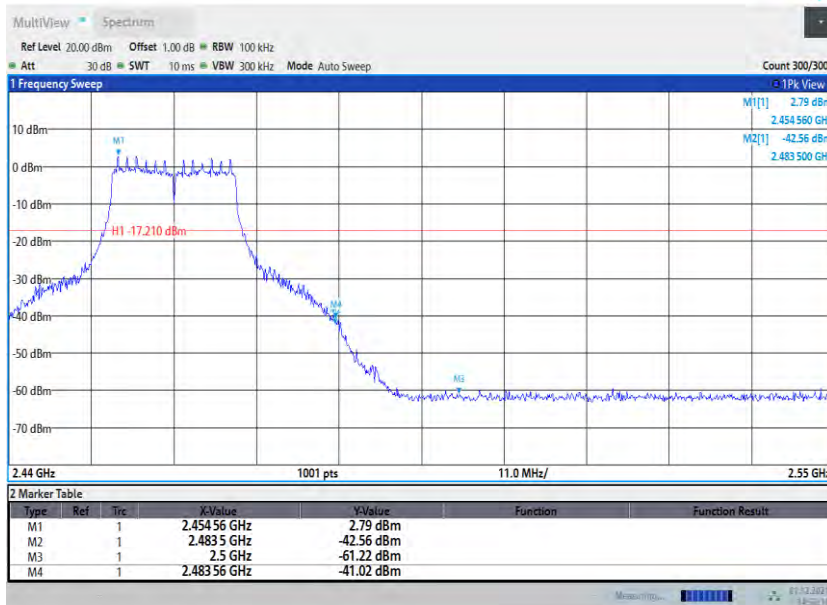
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11G\_Ant1\_Low\_2412



14:49:29 01.12.2021

11G\_Ant1\_High\_2462

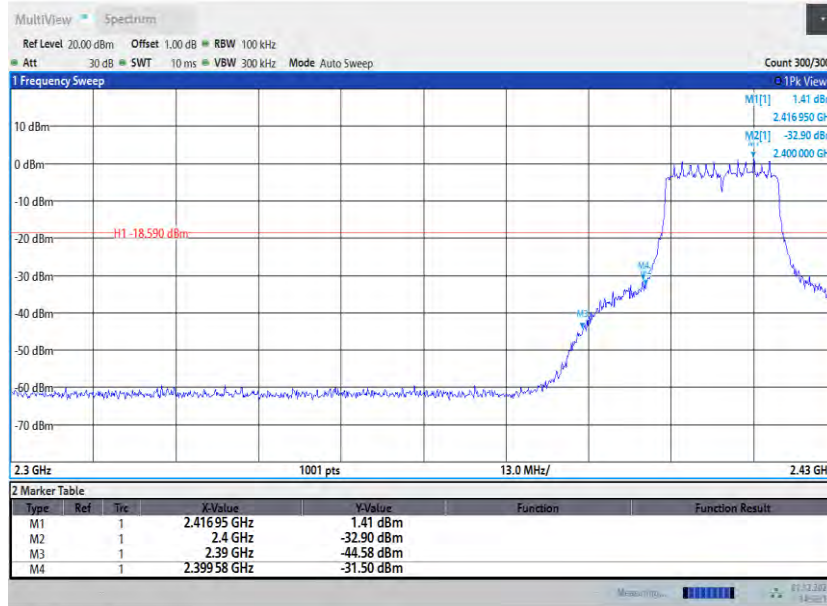


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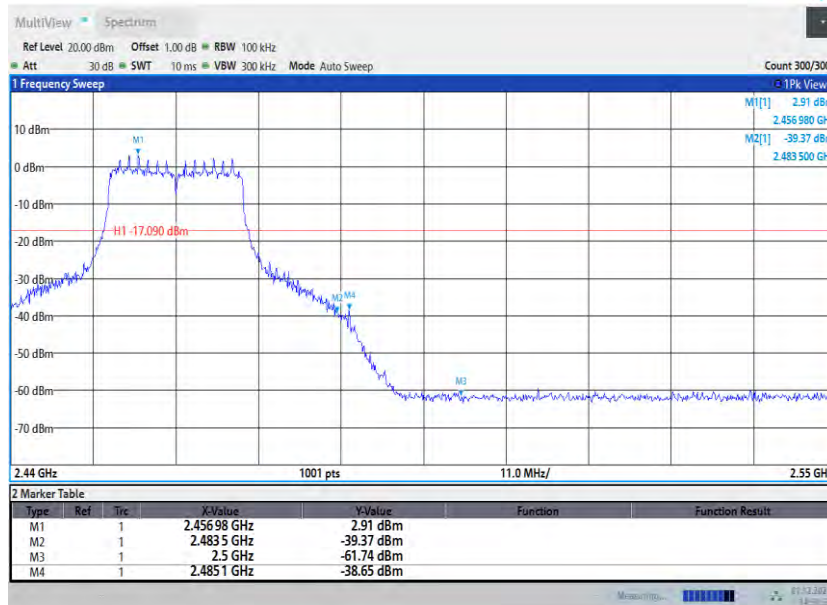
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11N20SISO\_Ant1\_Low\_2412



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11N20SISO\_Ant1\_High\_2462



14:59:53 01.12.2021



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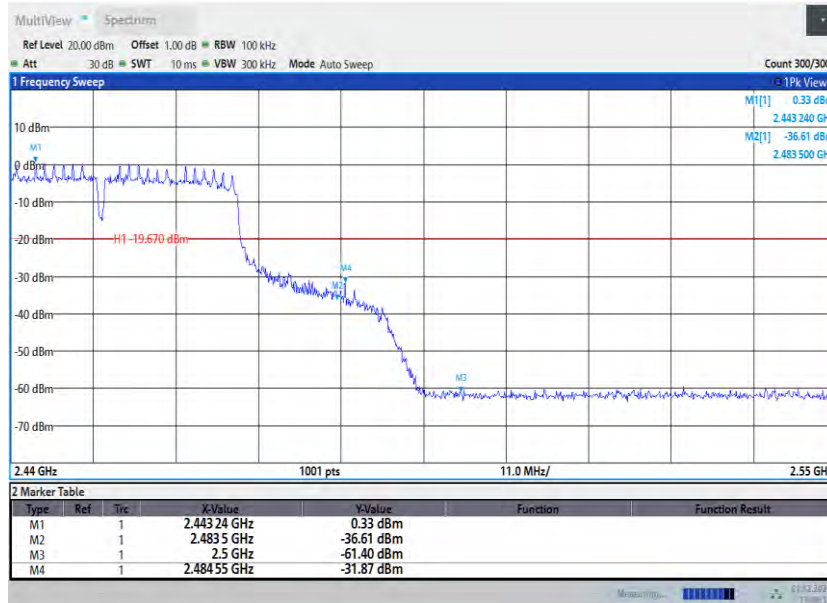


11N40SISO\_Ant1\_Low\_2422



15:01:56 01.12.2021

11N40SISO\_Ant1\_High\_2452



15:06:12 01.12.2021



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### Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.40	7.40	---	PASS
			30~1000	7.40	-62.94	<=-12.6	PASS
			1000~26500	7.40	-43.12	<=-12.6	PASS
		2437	Reference	7.06	7.06	---	PASS
			30~1000	7.06	-63.23	<=-12.94	PASS
			1000~26500	7.06	-41.96	<=-12.94	PASS
		2462	Reference	8.63	8.63	---	PASS
			30~1000	8.63	-62.91	<=-11.37	PASS
			1000~26500	8.63	-40.25	<=-11.37	PASS
11G	Ant1	2412	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-62.9	<=-18.44	PASS
			1000~26500	1.56	-57.73	<=-18.44	PASS
		2437	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-62.53	<=-18.43	PASS
			1000~26500	1.57	-54.34	<=-18.43	PASS
		2462	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-62.52	<=-17.04	PASS
			1000~26500	2.96	-53.35	<=-17.04	PASS
11N20SISO	Ant1	2412	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-63.3	<=-18.67	PASS
			1000~26500	1.33	-54.22	<=-18.67	PASS
		2437	Reference	1.65	1.65	---	PASS
			30~1000	1.65	-62.45	<=-18.35	PASS
			1000~26500	1.65	-54.93	<=-18.35	PASS
		2462	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-62.93	<=-17.07	PASS
			1000~26500	2.93	-51.74	<=-17.07	PASS
11N40SISO	Ant1	2422	Reference	-0.30	-0.30	---	PASS



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Report No.: SUZR/2021/A002404

Rev.: 01

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		2437	30~1000	-0.30	-63.16	<=-20.3	PASS
			1000~26500	-0.30	-50.51	<=-20.3	PASS
			Reference	0.67	0.67	---	PASS
			30~1000	0.67	-62.56	<=-19.33	PASS
			1000~26500	0.67	-46.62	<=-19.33	PASS
			Reference	0.37	0.37	---	PASS
		2452	30~1000	0.37	-63.11	<=-19.63	PASS
			1000~26500	0.37	-55.09	<=-19.63	PASS
			Reference	0.37	0.37	---	PASS



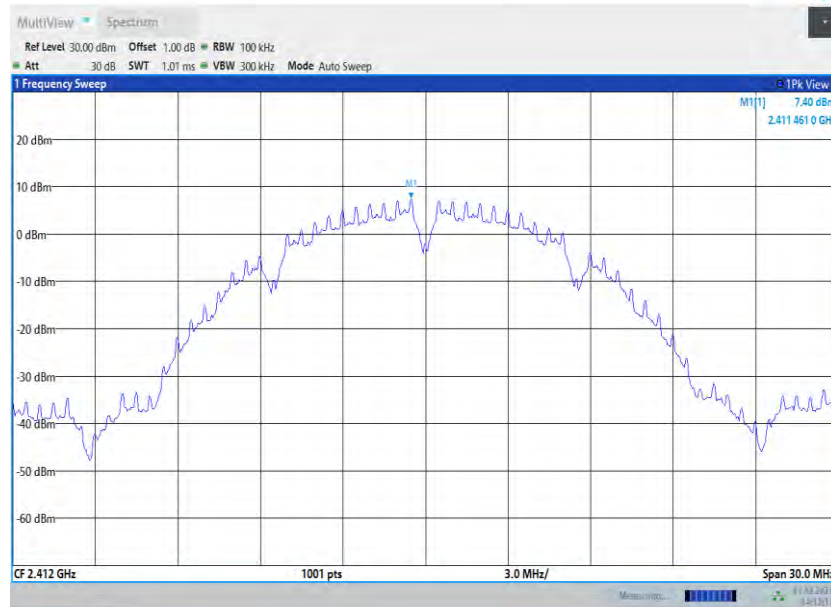
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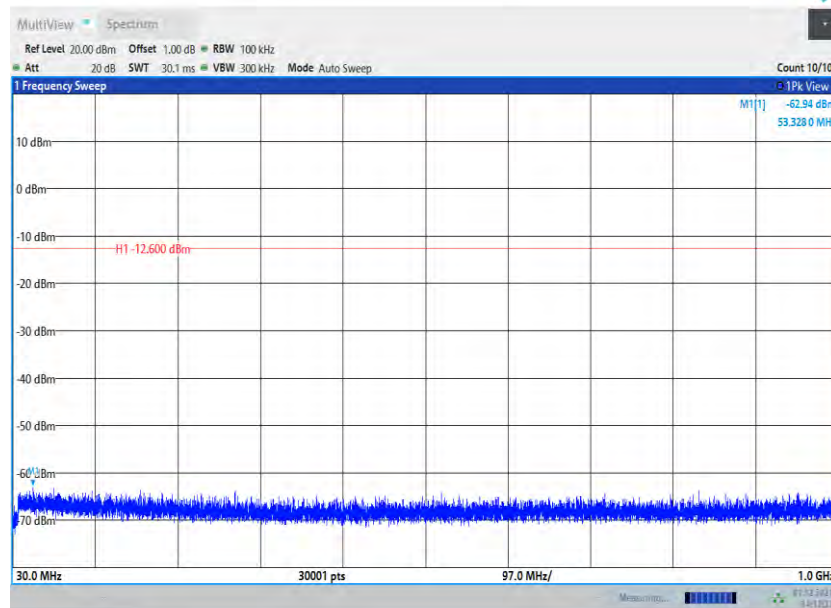
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Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000

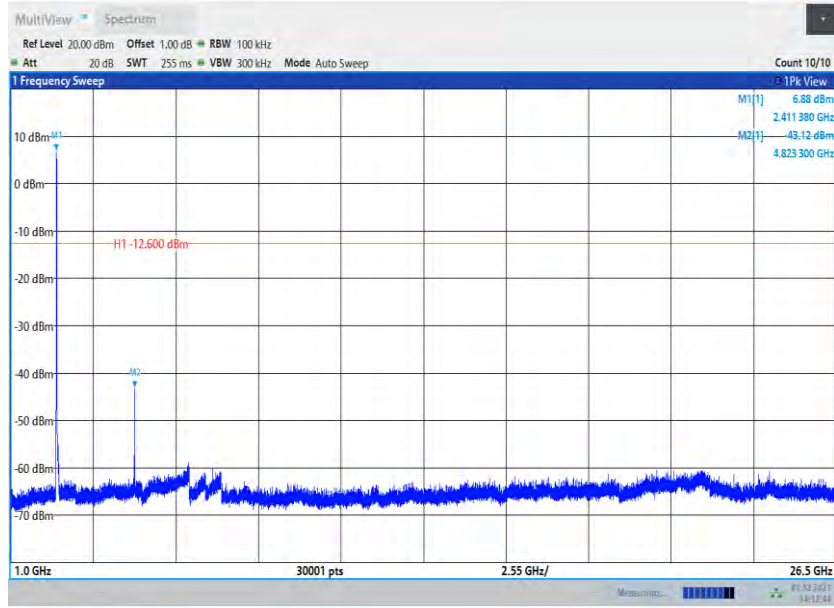


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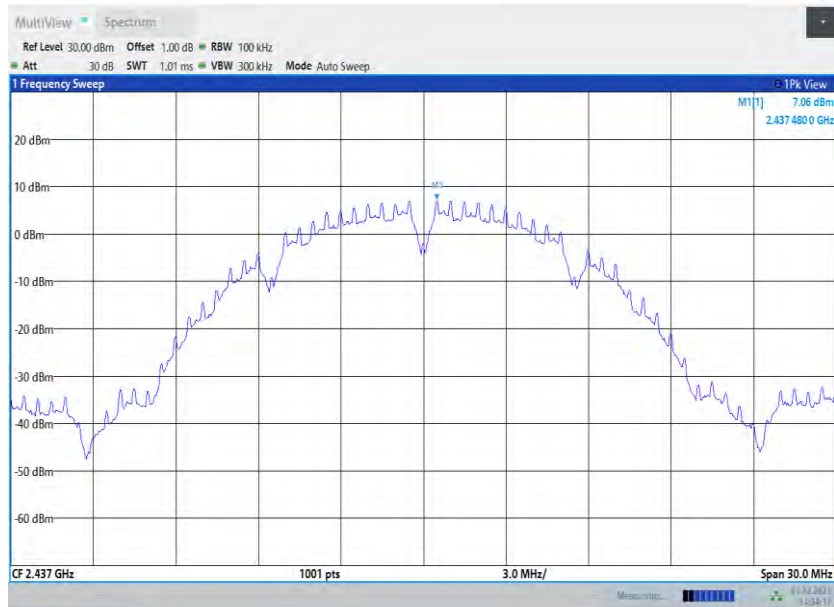
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11B\_Ant1\_2412\_1000~26500



14:12:45 01.12.2021

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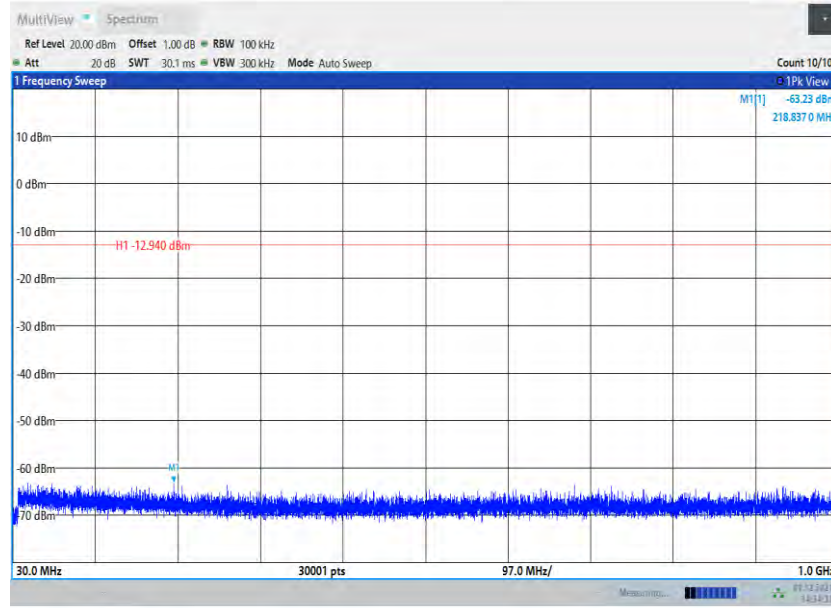
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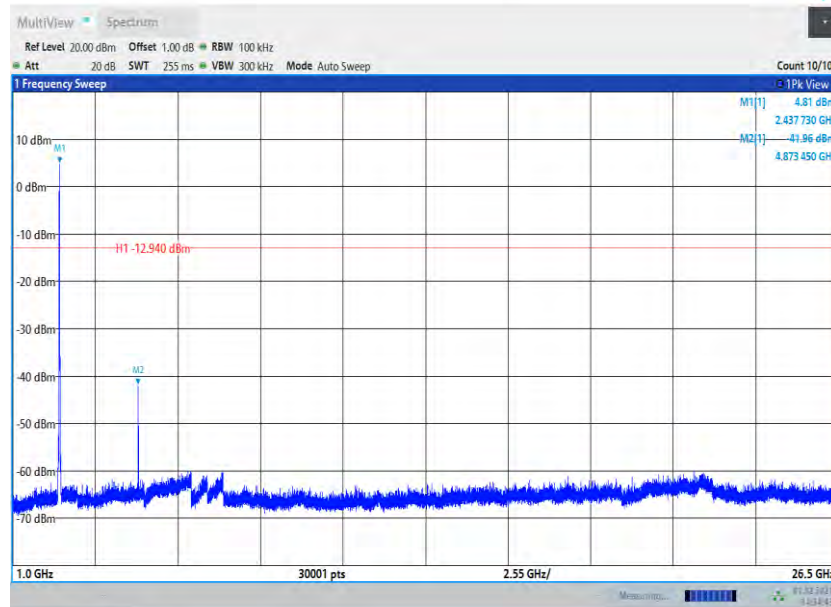
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11B\_Ant1\_2437\_30~1000



11B\_Ant1\_2437\_1000~26500

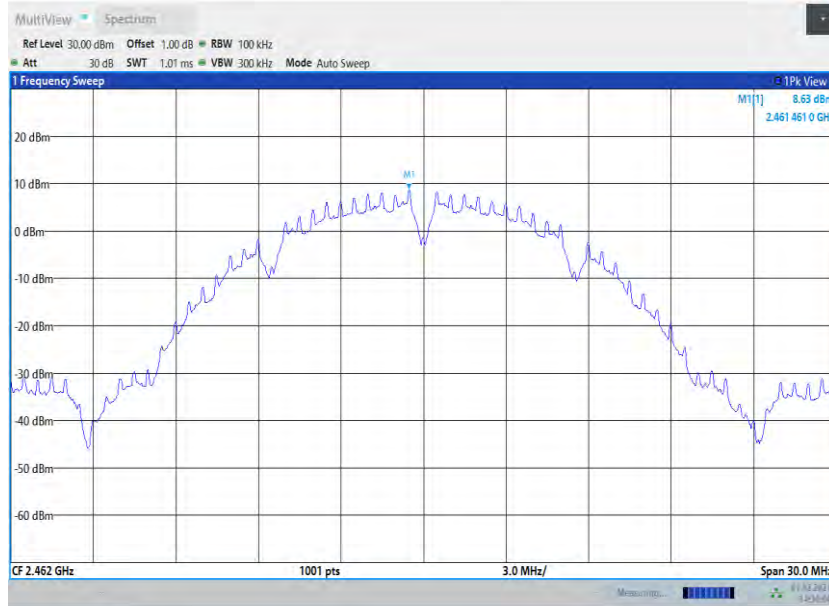


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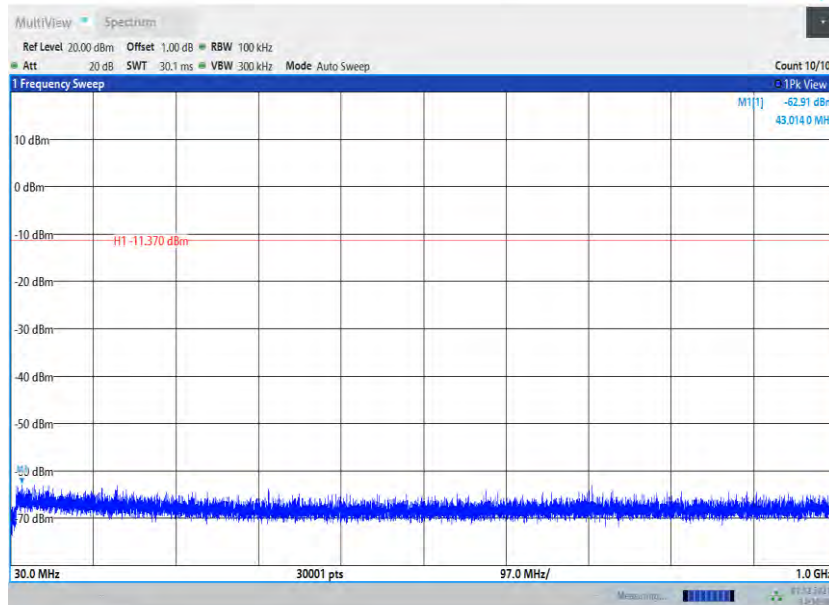
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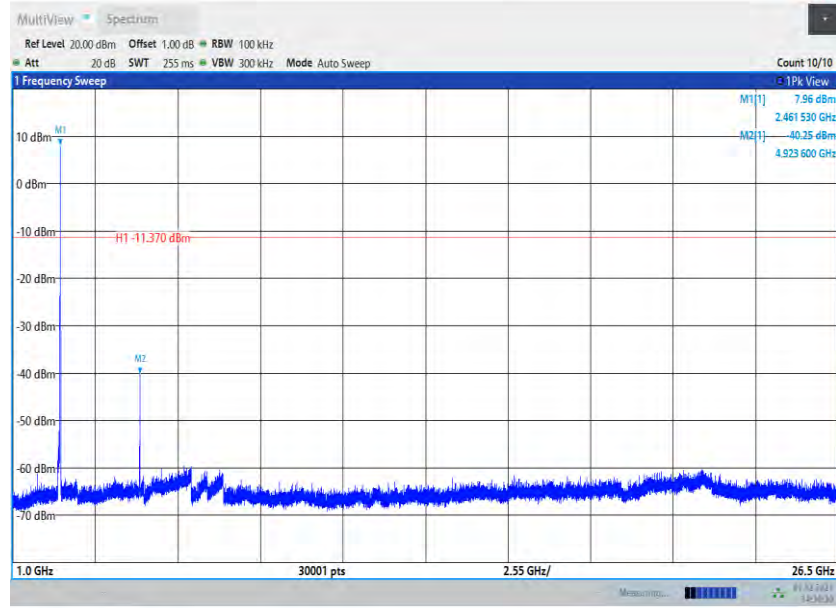
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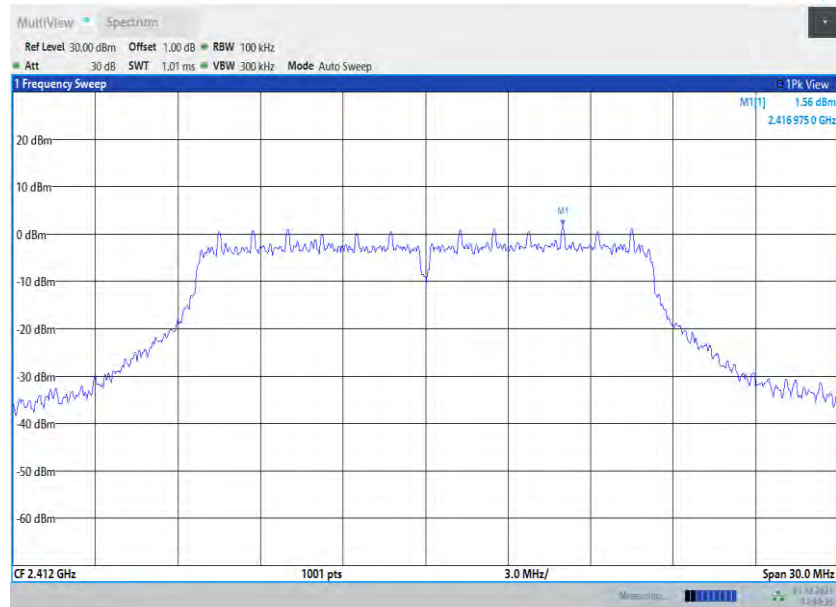
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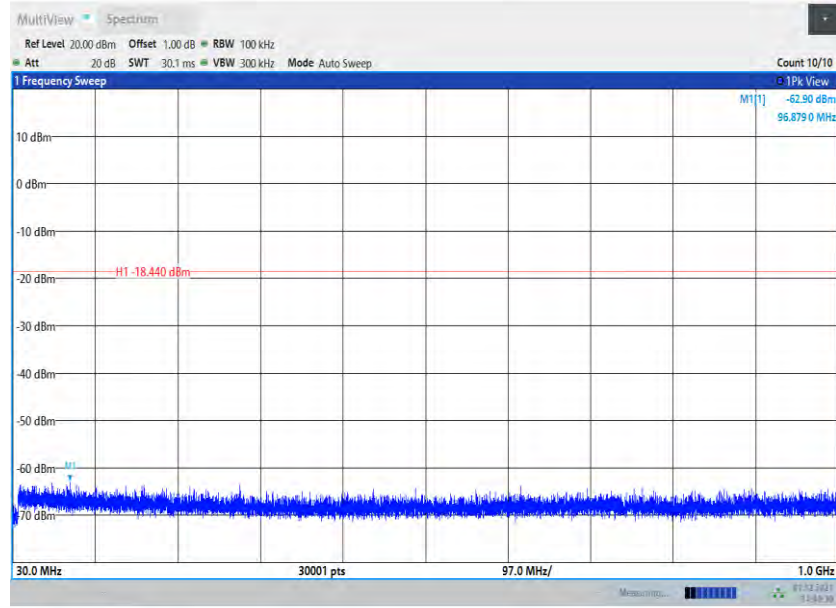
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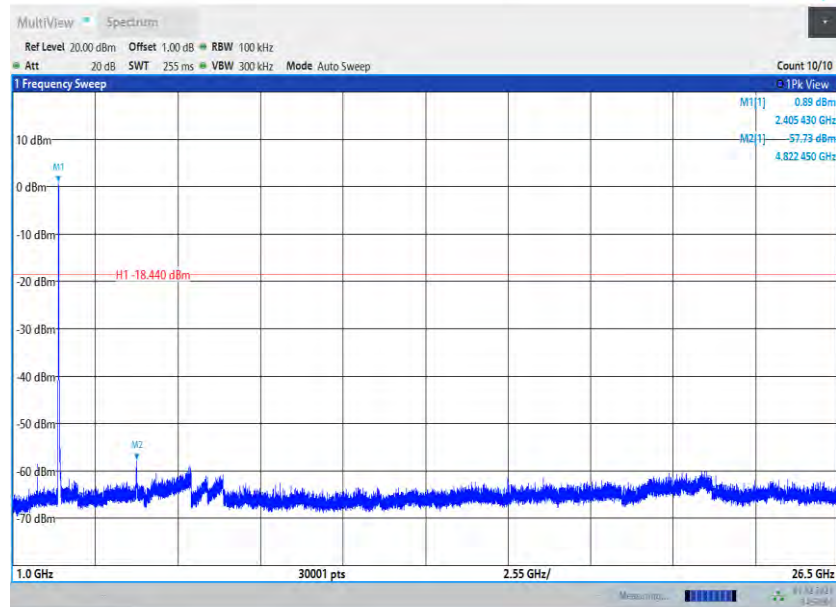


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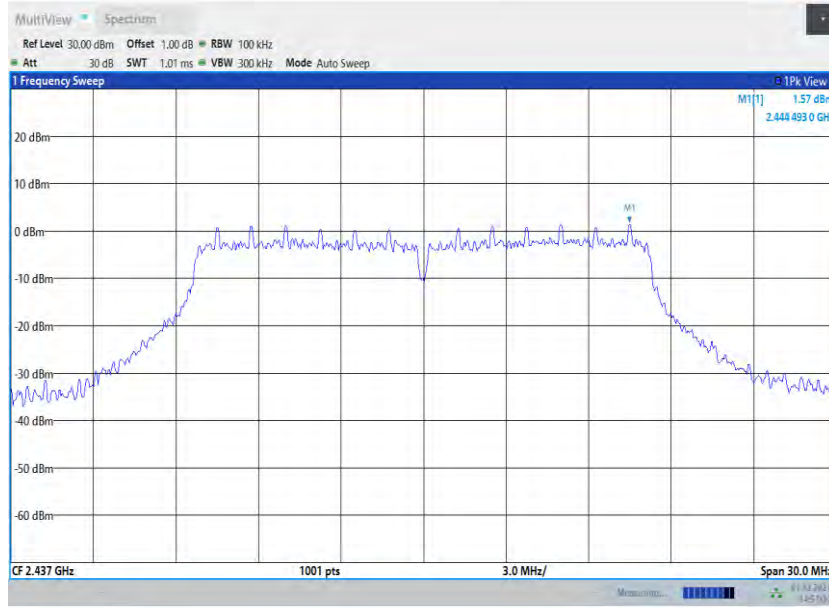
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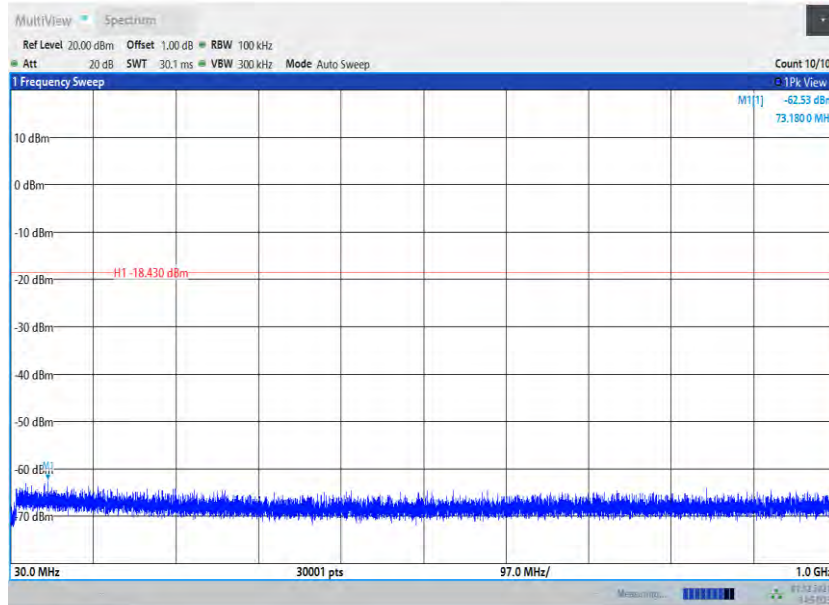


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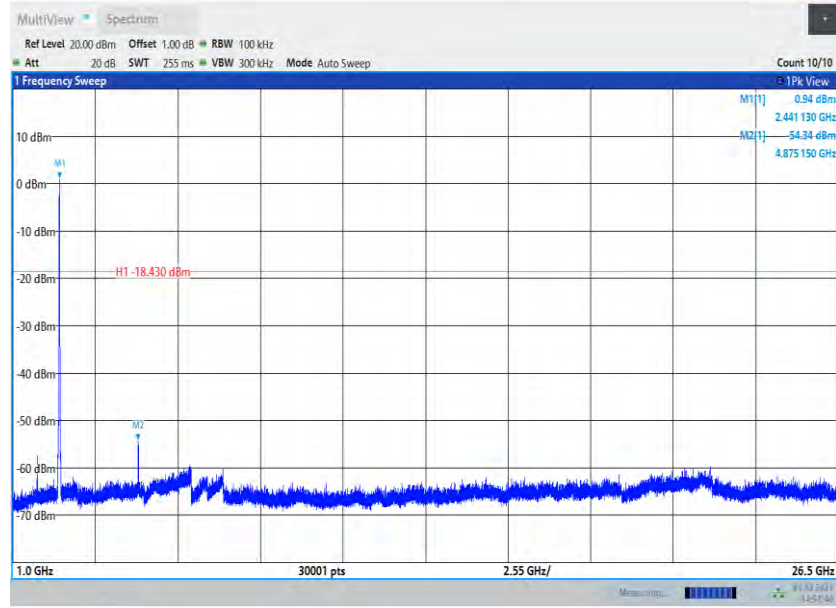
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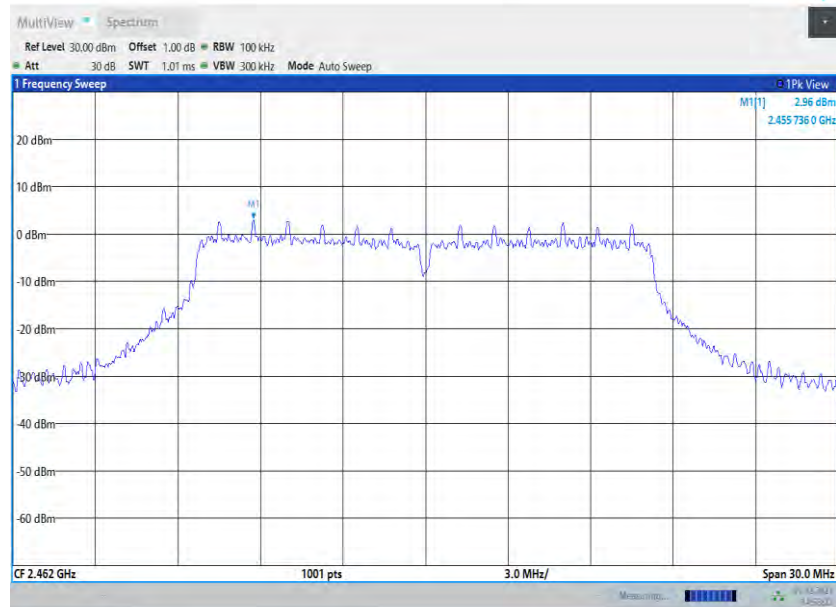
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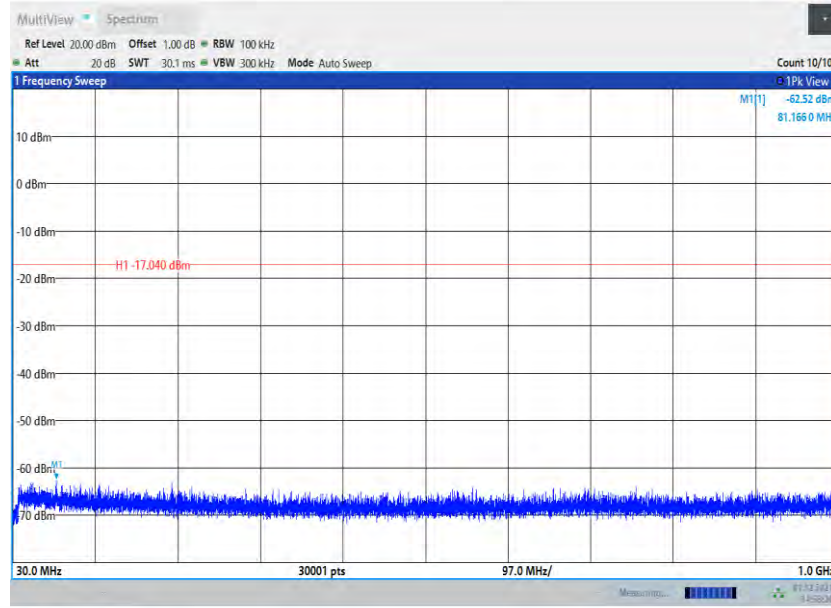


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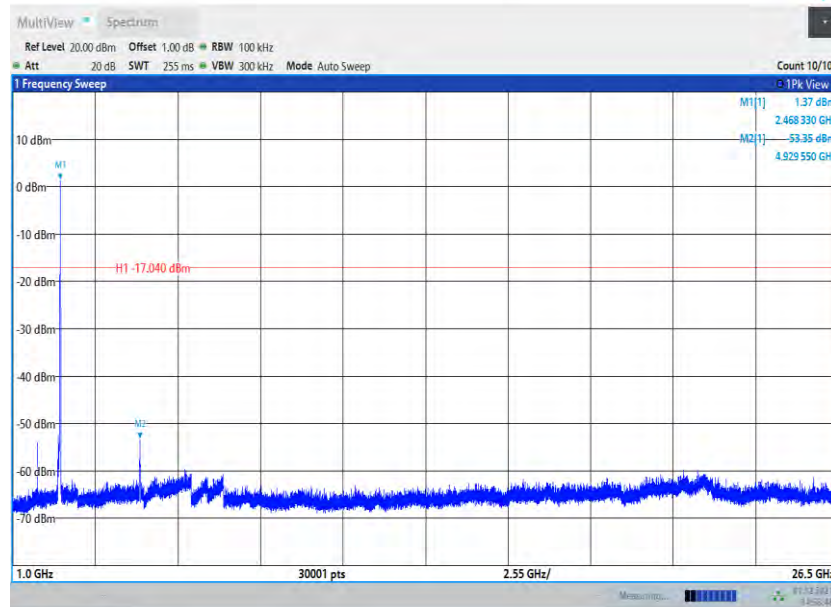
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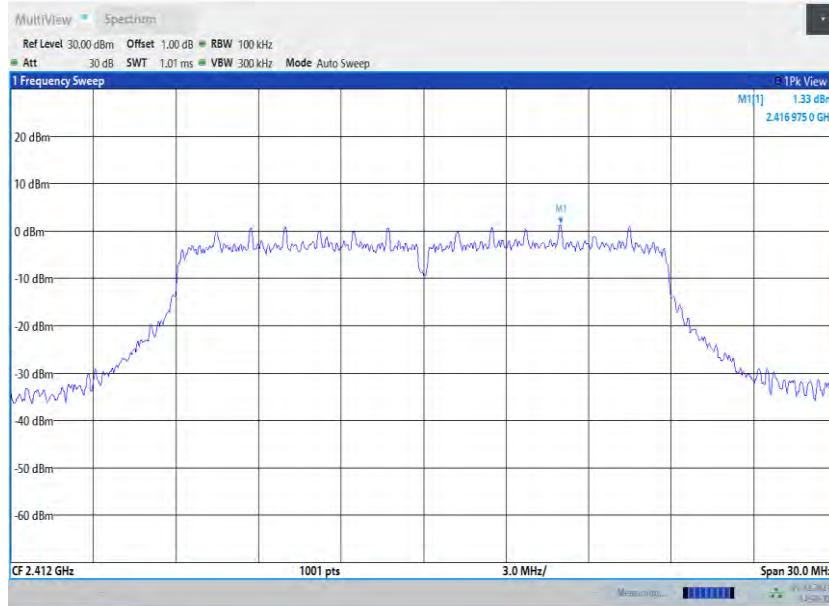
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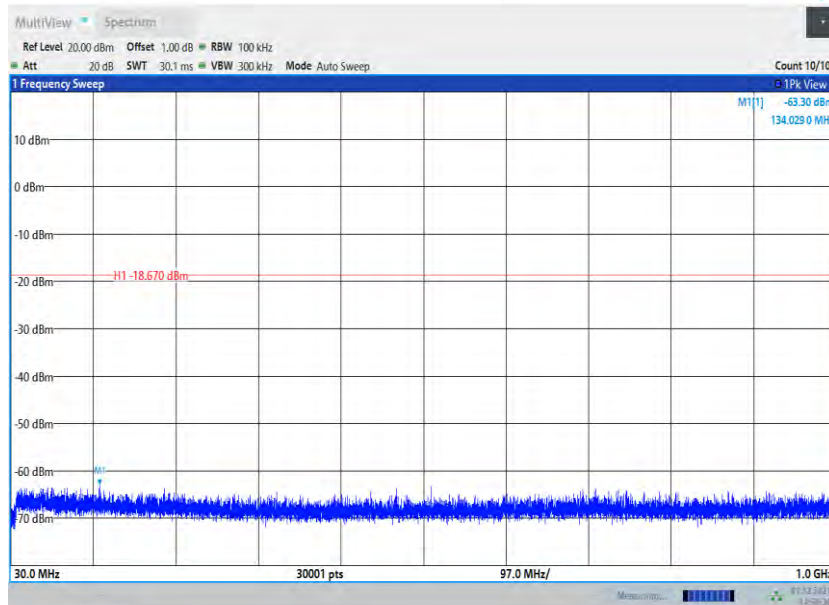


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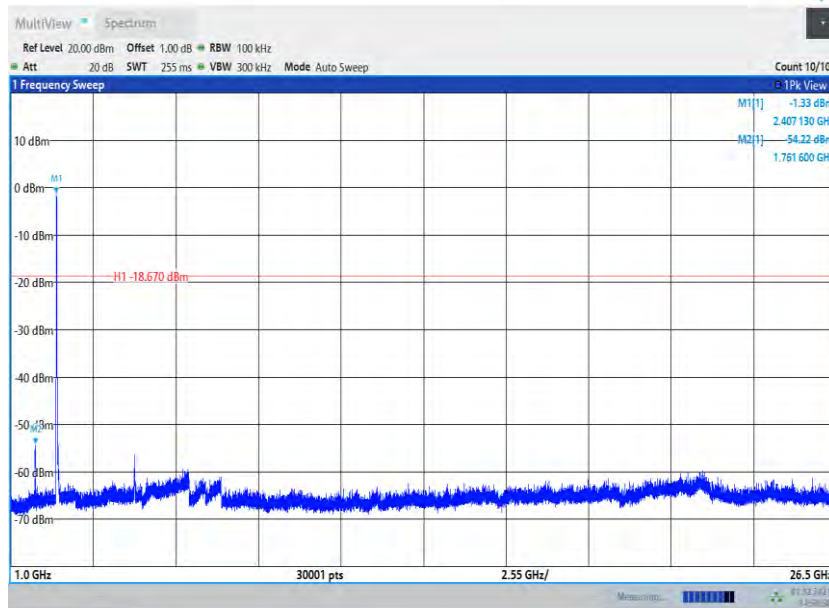
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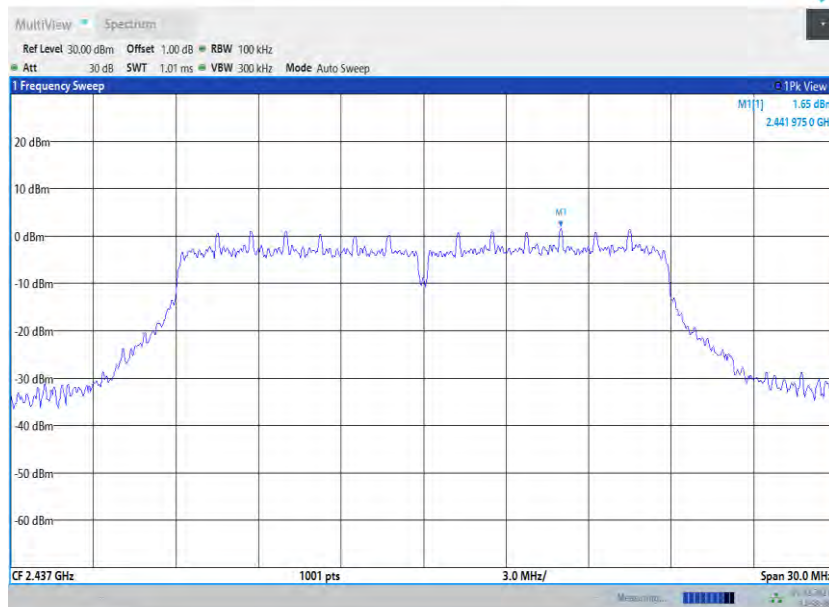
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11N20SISO Ant1 2412\_1000~26500

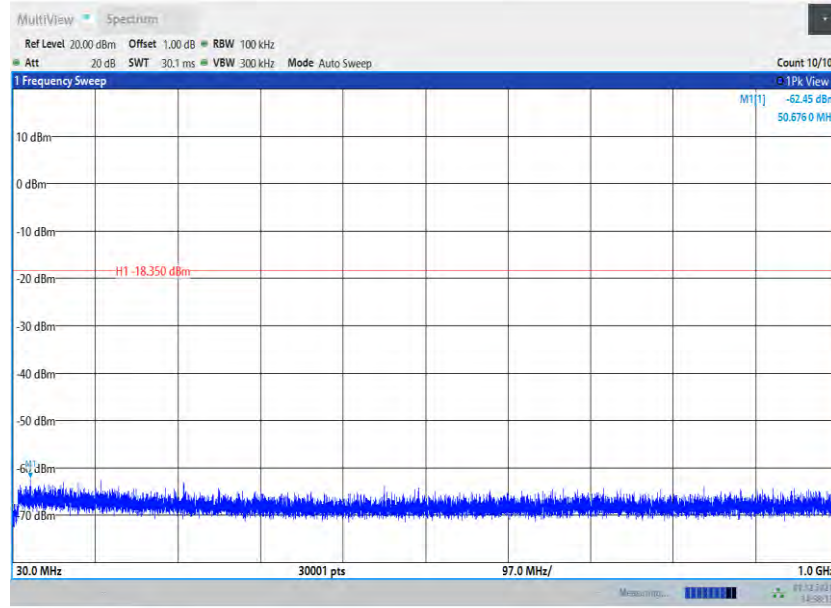


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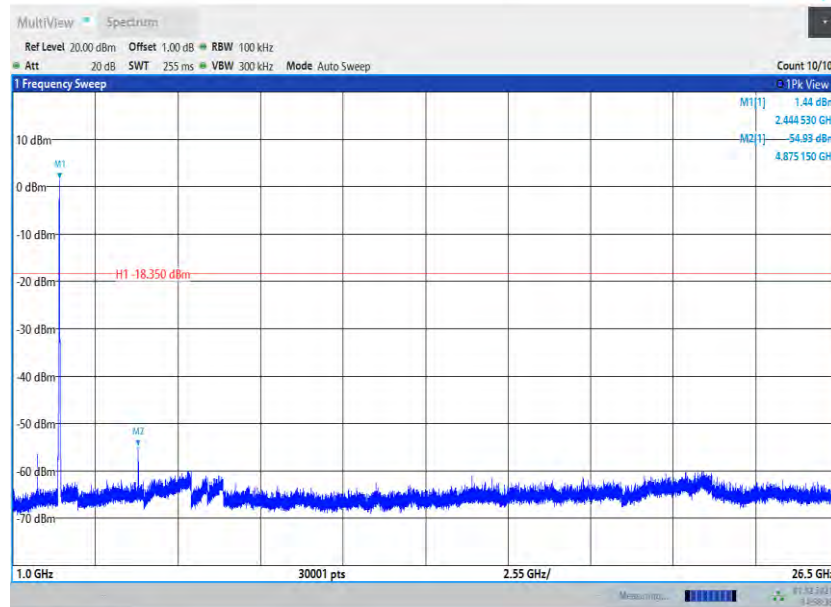
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11N20SISO\_Ant1\_2437\_30~1000



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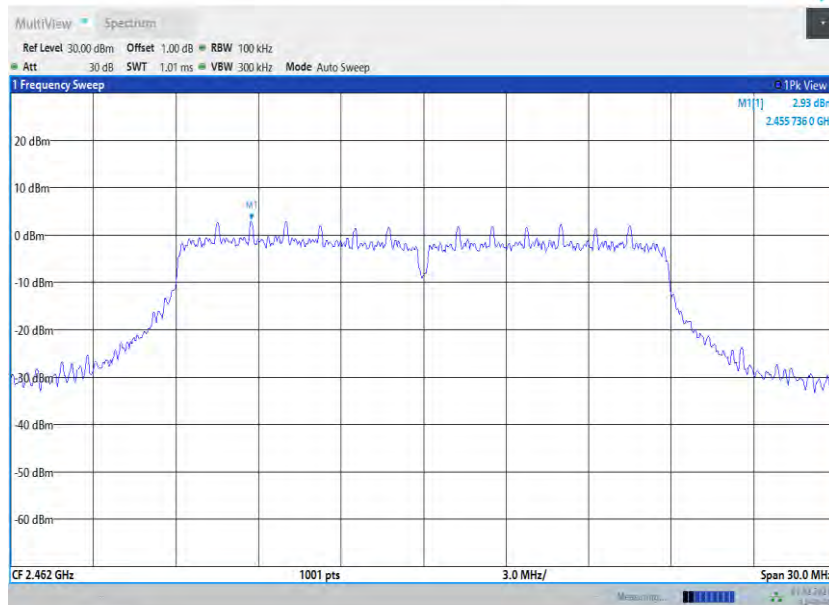


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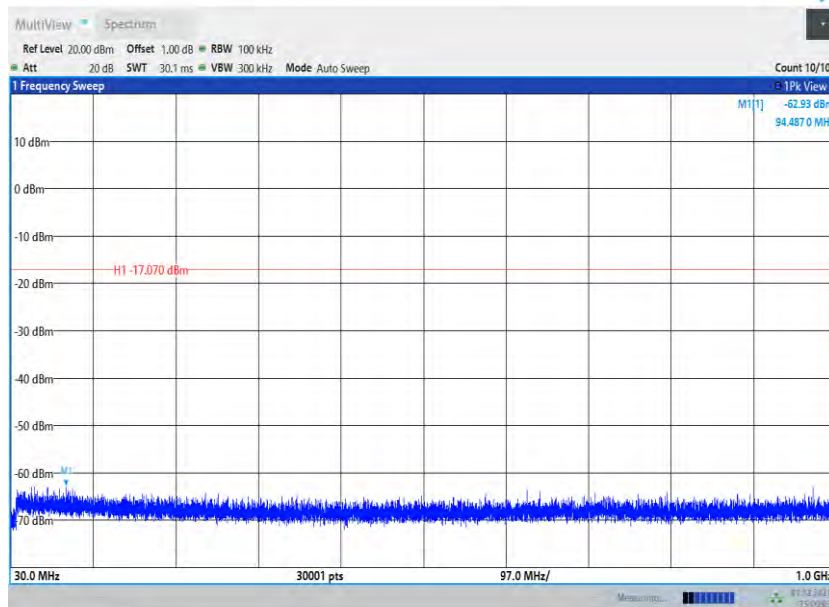
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11N20SISO\_Ant1\_2462\_0~Reference



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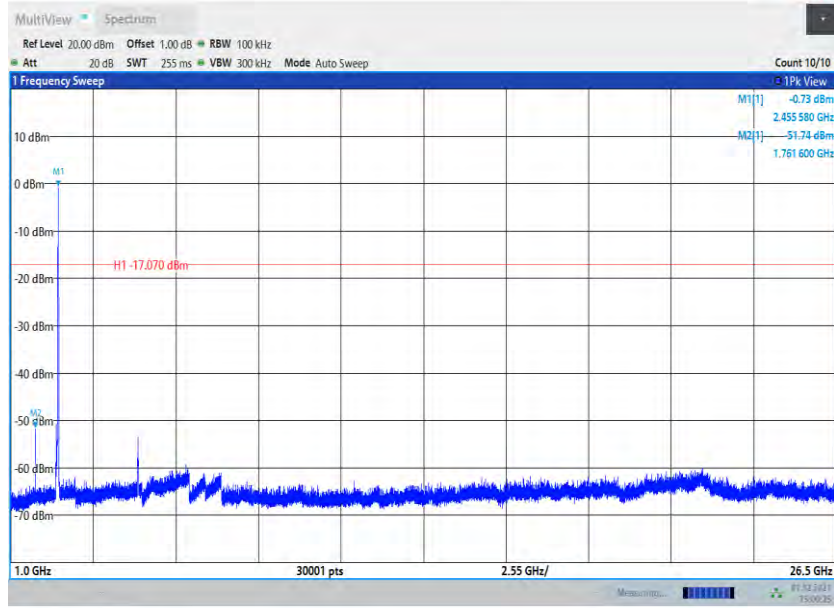
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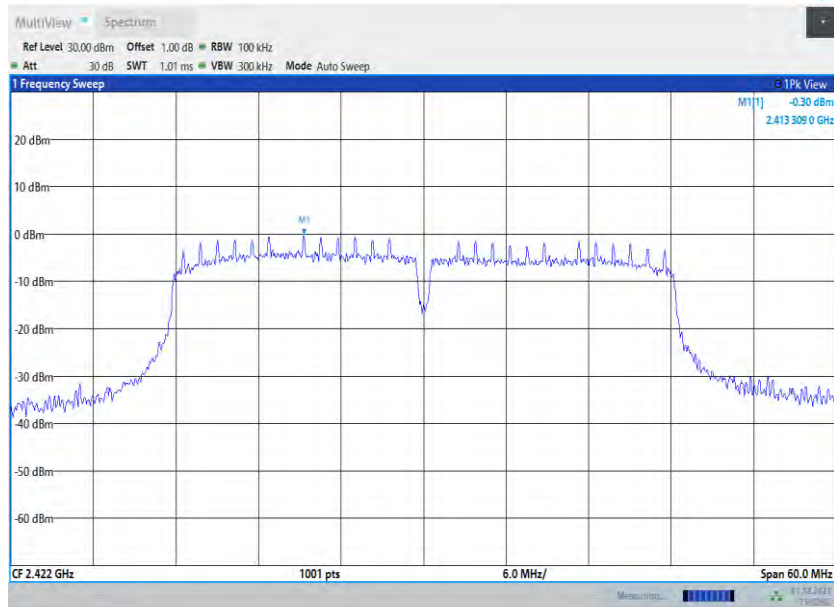
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11N20SISO Ant1 2462\_1000~26500



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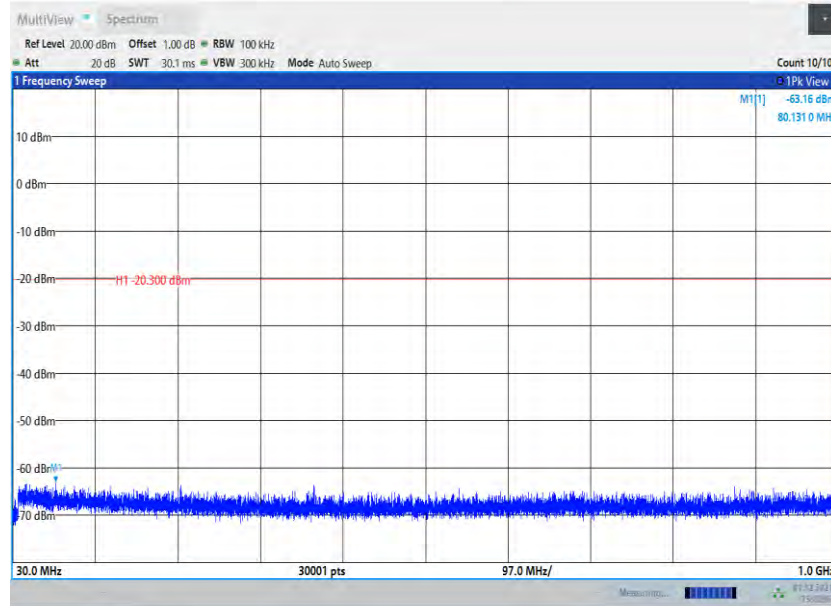
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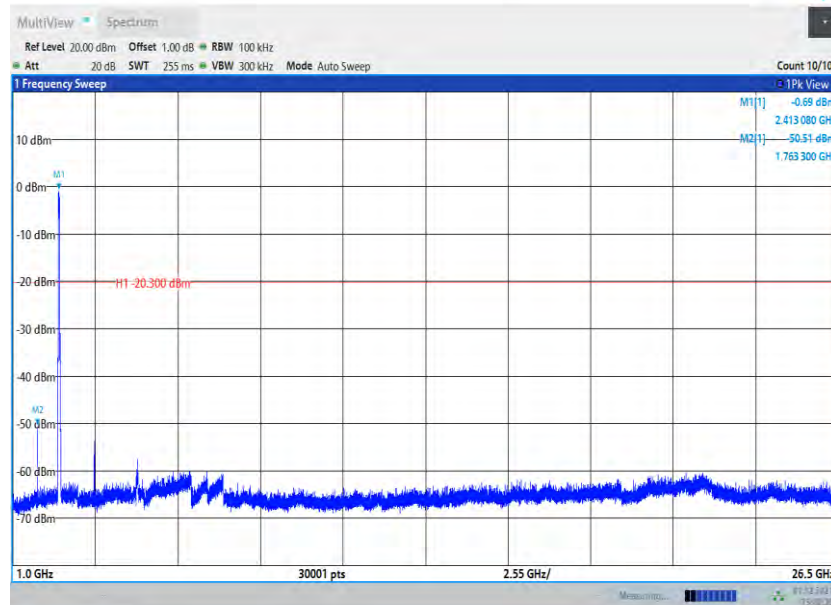


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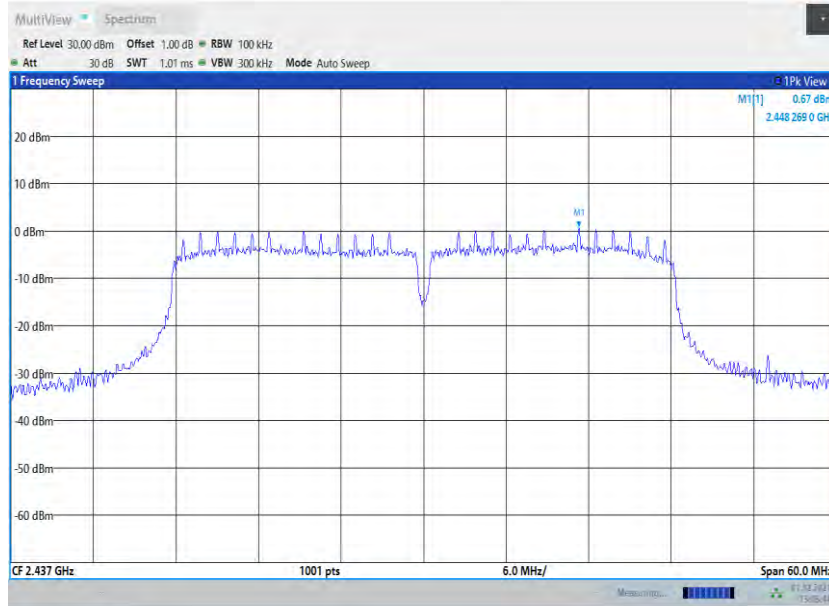


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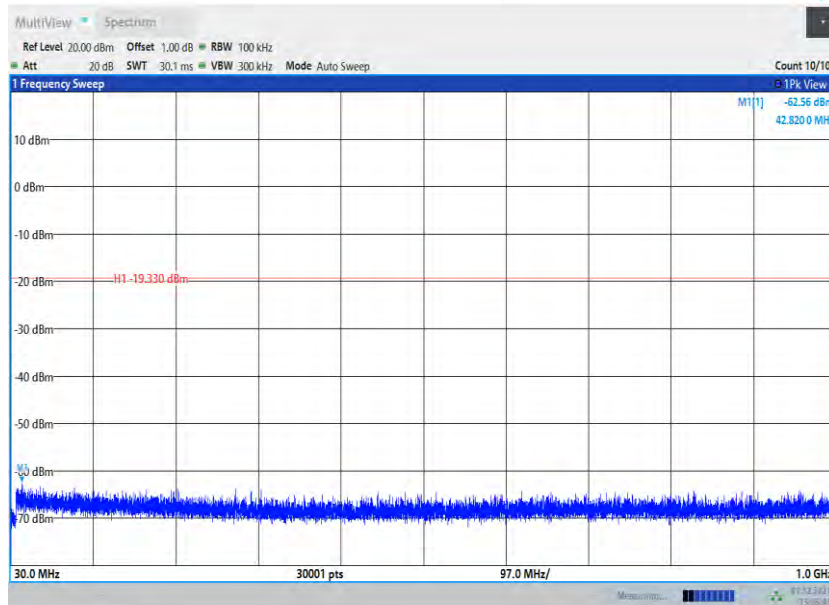
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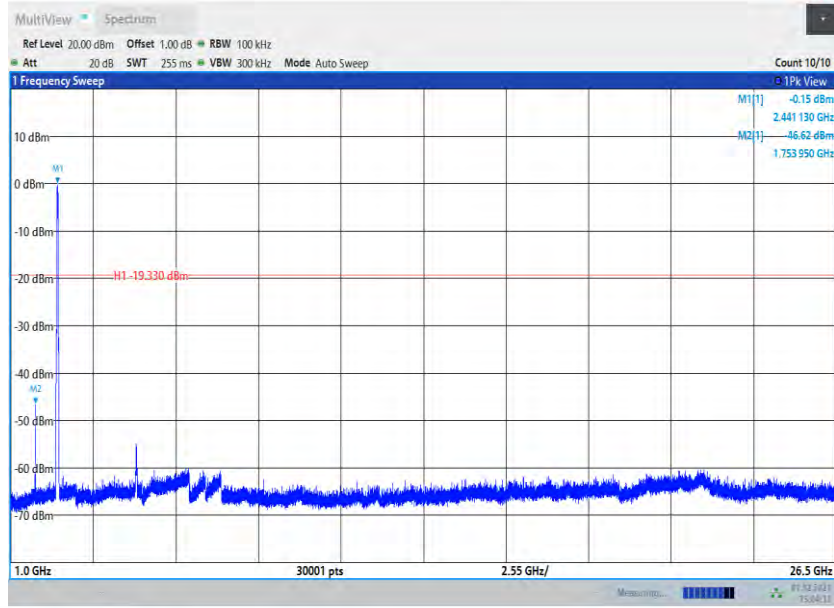


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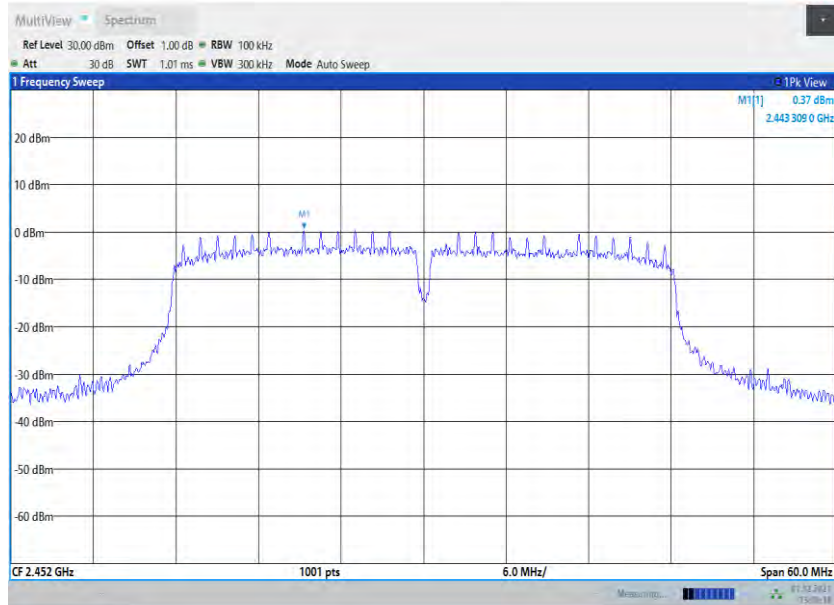
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### 11N40SISO\_Ant1\_2437\_1000~26500



15:04:12 01.12.2021

### 11N40SISO\_Ant1\_2452\_0~Reference



15:06:18 01.12.2021



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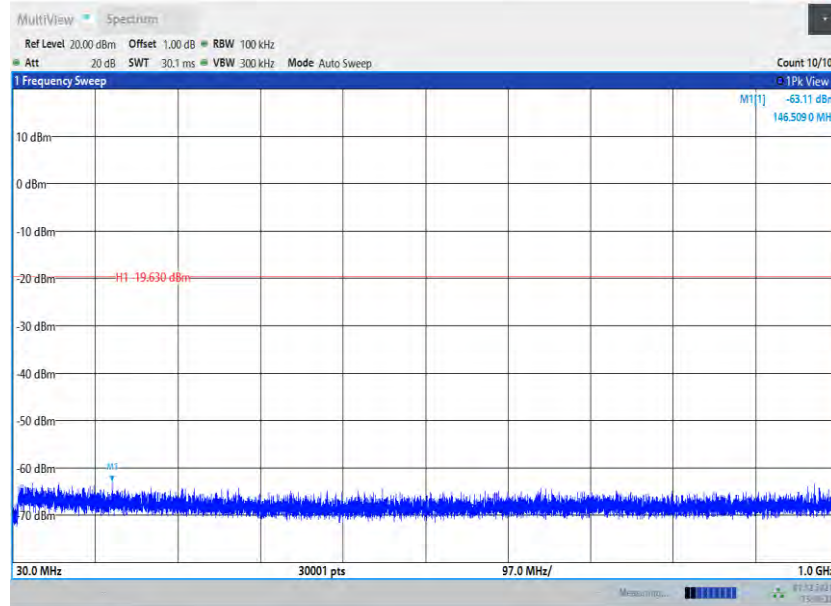
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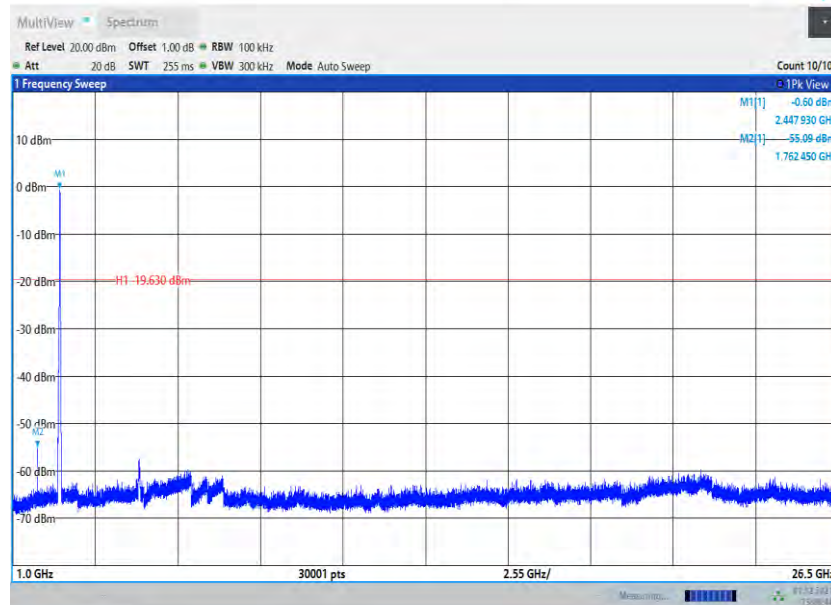


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**Duty Cycle  
Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.22	8.42	97.62	---	PASS
		2437	8.22	8.42	97.62	---	PASS
		2462	8.22	8.42	97.62	---	PASS
11G	Ant1	2412	1.36	1.56	87.18	---	PASS
		2437	1.36	1.56	87.18	---	PASS
		2462	1.36	1.56	87.18	---	PASS
11N20SISO	Ant1	2412	1.27	1.47	86.39	---	PASS
		2437	1.27	1.47	86.39	---	PASS
		2462	1.27	1.47	86.39	---	PASS
11N40SISO	Ant1	2422	0.63	0.84	75.00	---	PASS
		2437	0.63	0.84	75.00	---	PASS
		2452	0.63	0.84	75.00	---	PASS

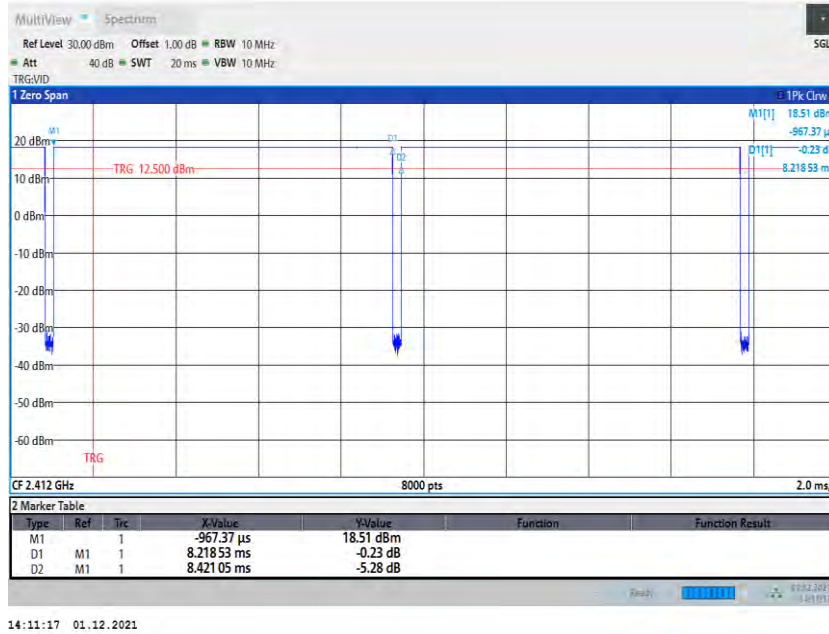


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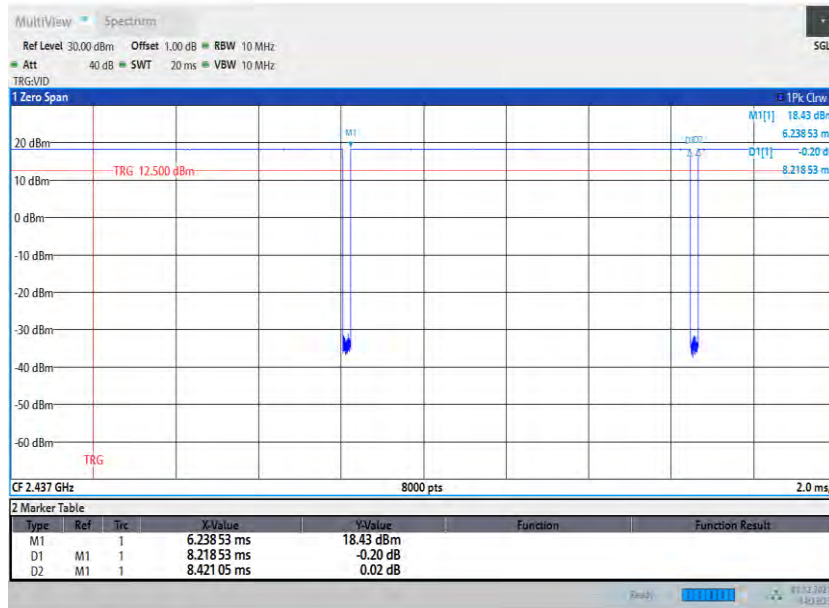
Test Graphs

11B Ant1 2412



14:11:17 01.12.2021

11B Ant1 2437



14:33:26 01.12.2021



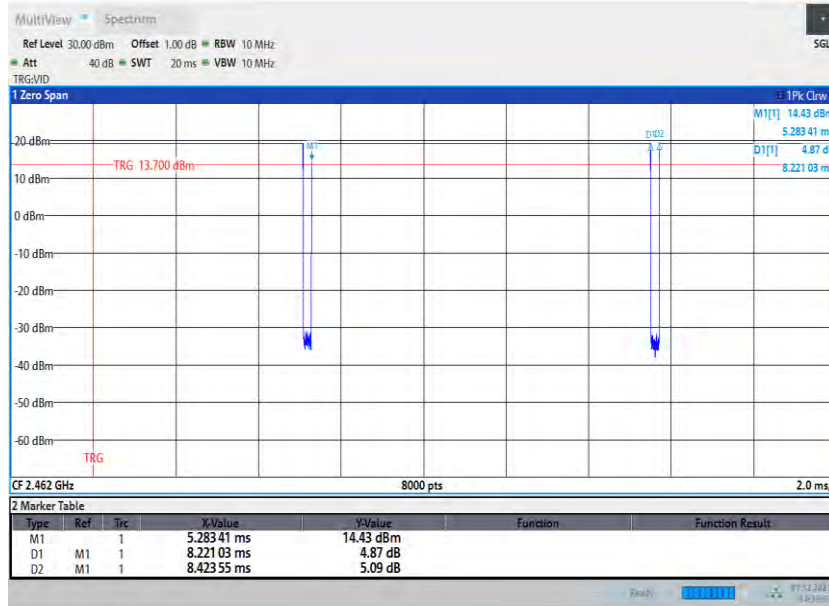
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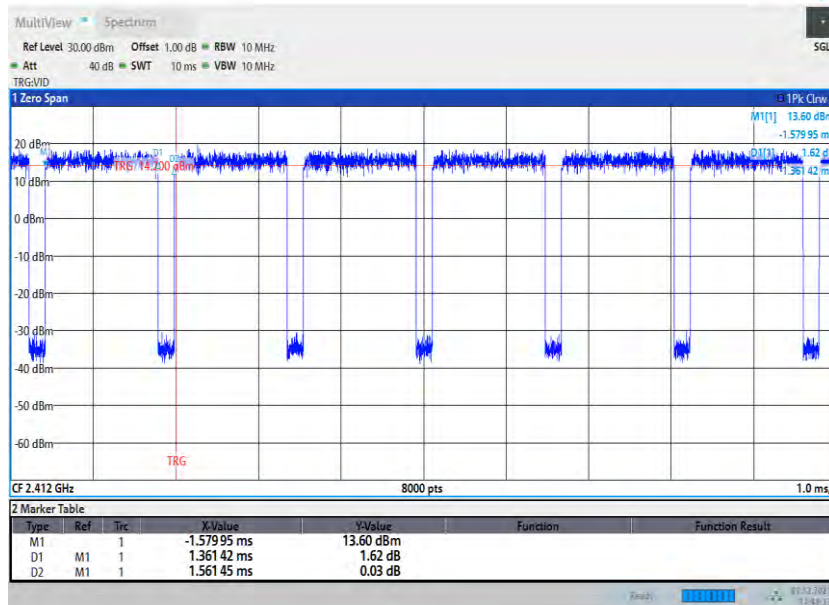


11B\_Ant1\_2462



14:35:03 01.12.2021

11G\_Ant1\_2412



14:48:34 01.12.2021



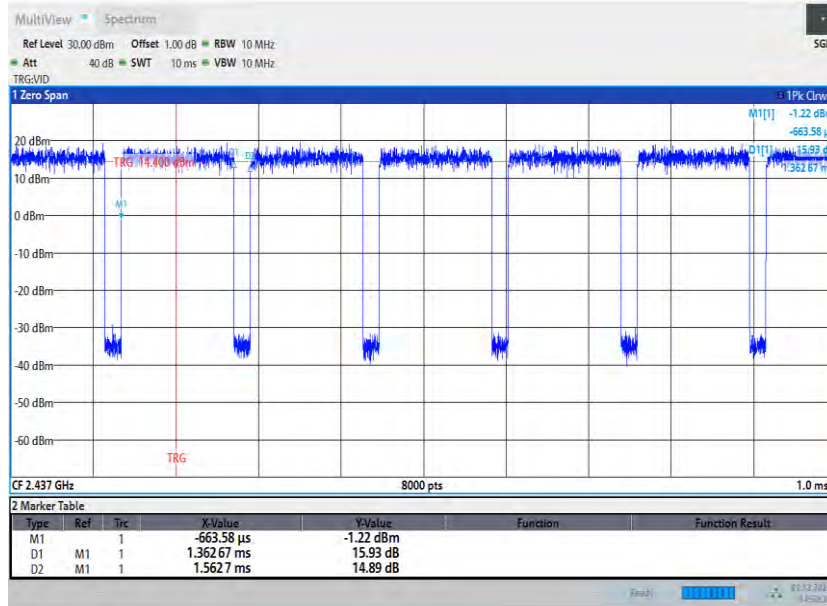
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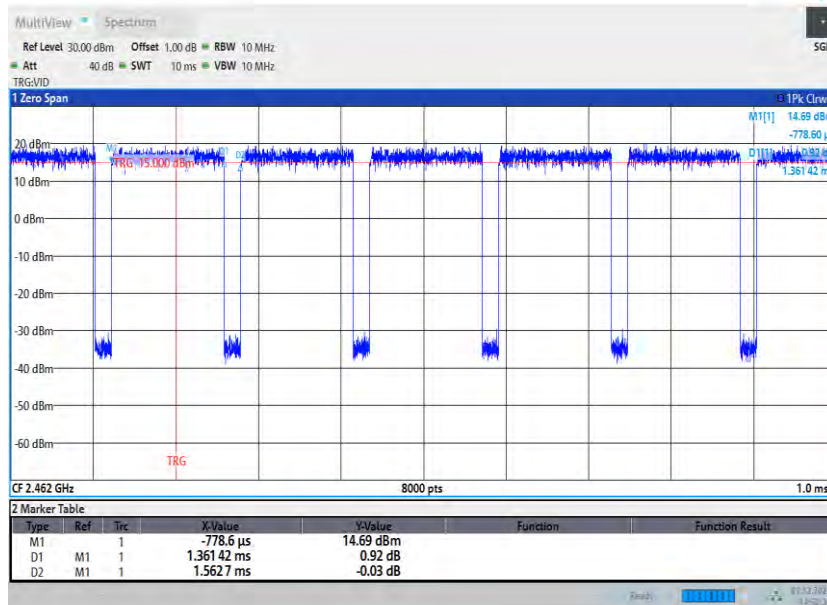
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 t (86-512) 62992980 sgs.china@sgs.com

11G\_Ant1\_2437



14:50:29 01.12.2021

11G\_Ant1\_2462



14:52:20 01.12.2021



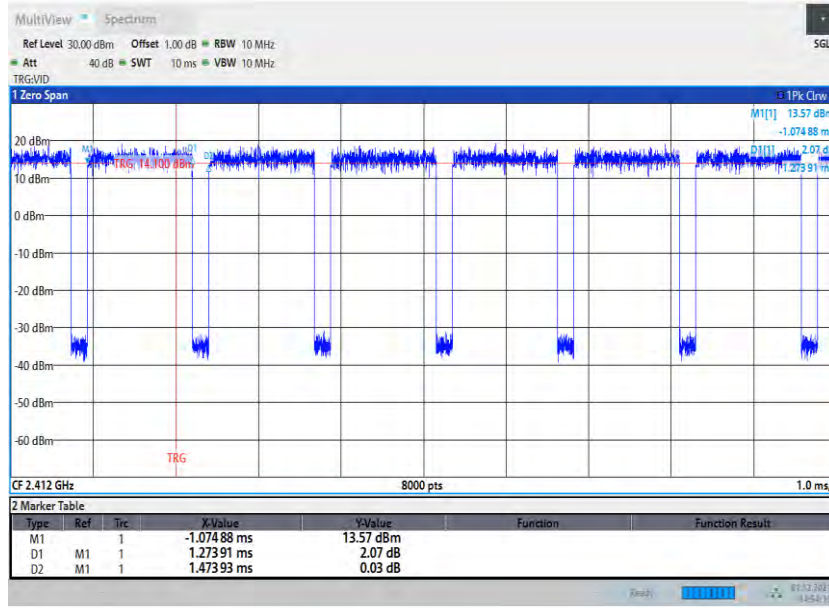
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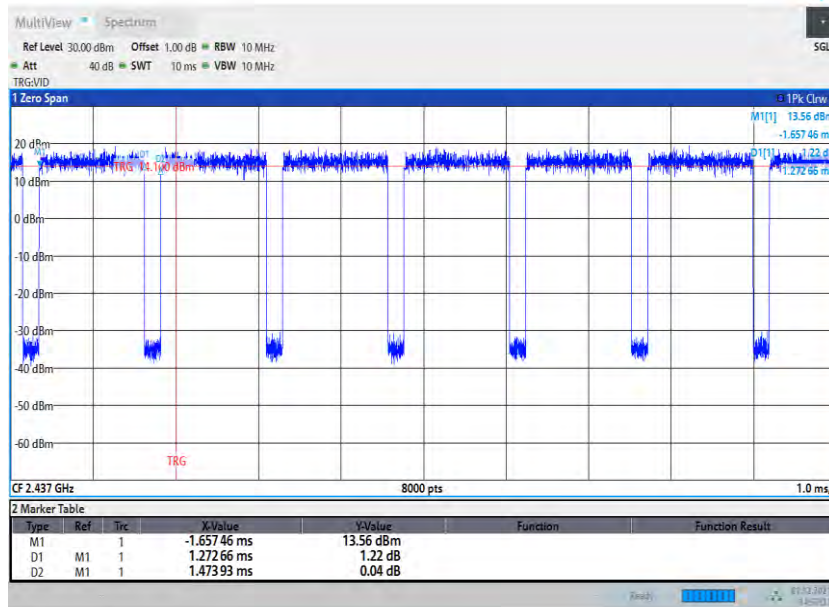
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11N20SISO\_Ant1\_2412



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11N20SISO\_Ant1\_2437



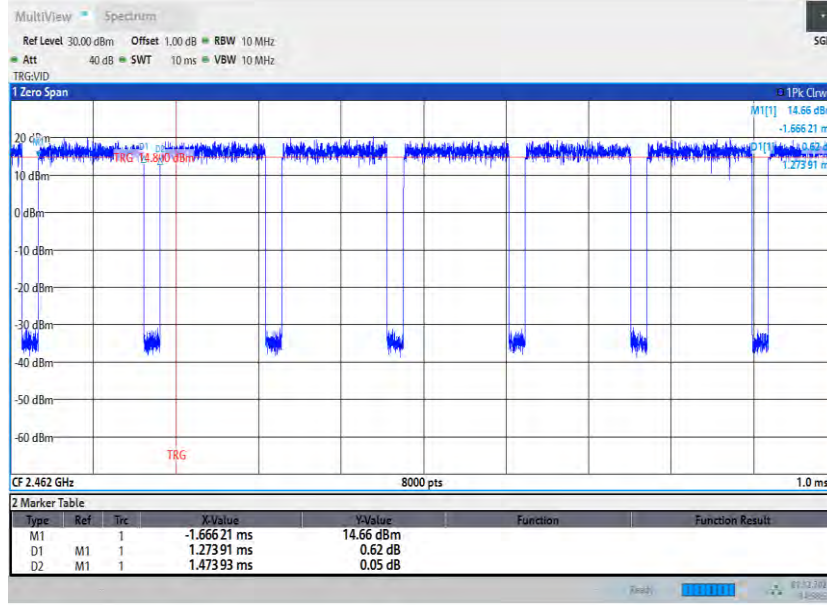
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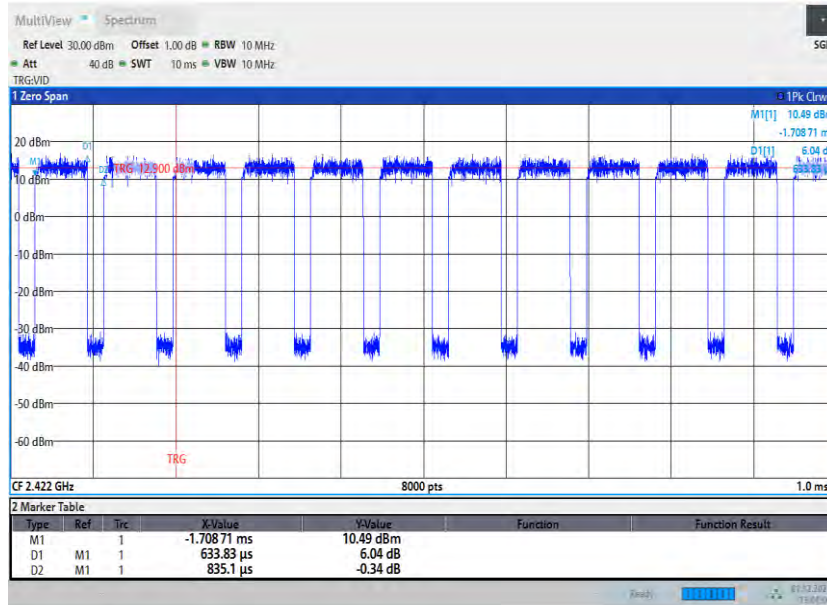


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15:01:01 01.12.2021



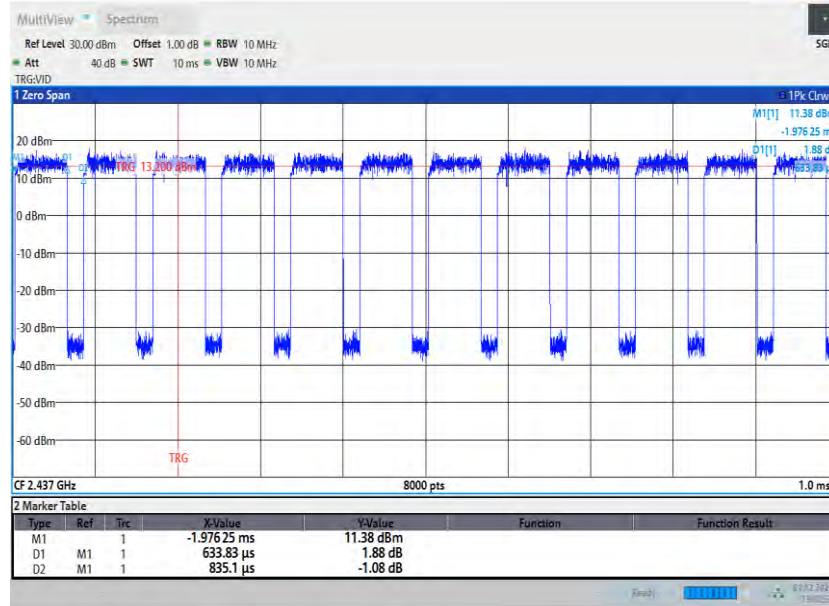
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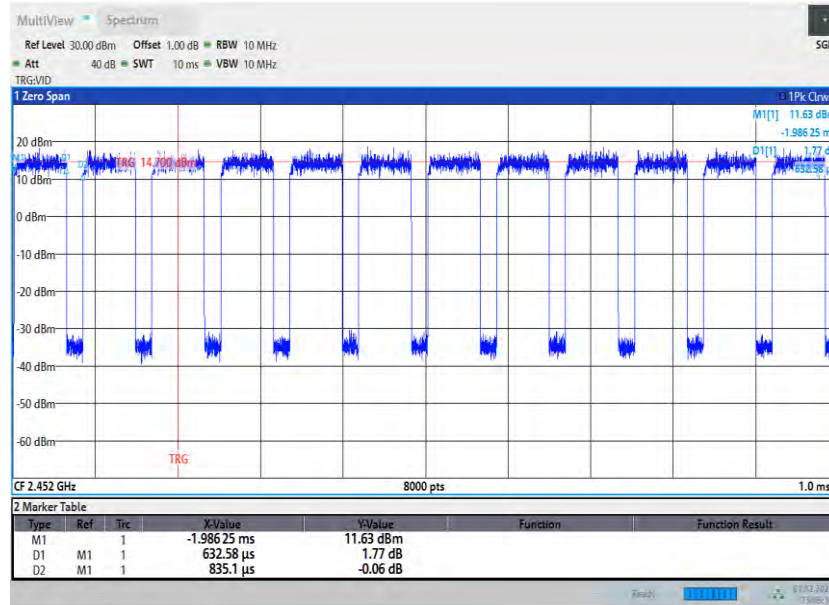
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11N40SISO\_Ant1\_2437



15:02:54 01.12.2021

11N40SISO\_Ant1\_2452



15:05:17 01.12.2021



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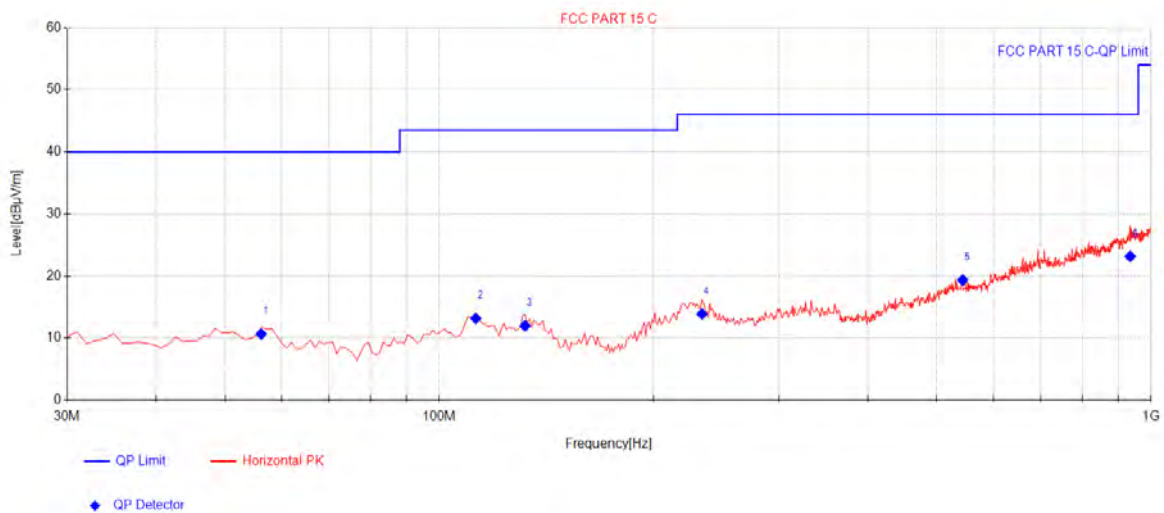
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: 802.11b\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.2162	32.26	-21.60	10.66	40.00	29.34	162	3	Horizontal
2	112.5325	33.22	-20.03	13.19	43.50	30.31	195	16	Horizontal
3	131.952	34.21	-22.22	11.99	43.50	31.51	175	1	Horizontal
4	233.9039	32.65	-18.75	13.90	46.00	32.10	126	93	Horizontal
5	543.6436	31.86	-12.52	19.34	46.00	26.66	246	360	Horizontal
6	934.9449	27.12	-3.95	23.17	46.00	22.83	186	359	Horizontal



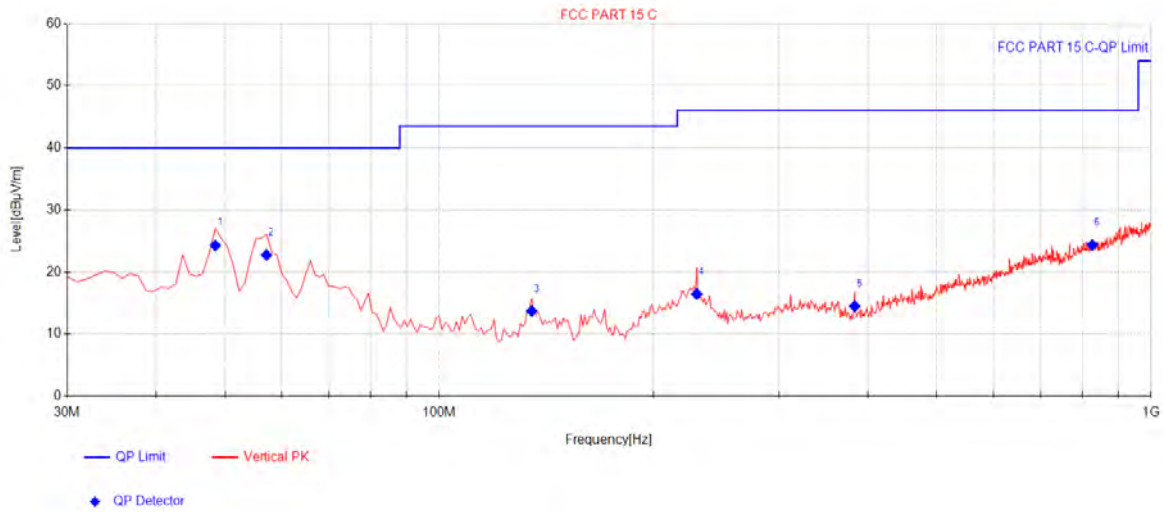
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4484	44.68	-20.40	24.28	40.00	15.72	162	146	Vertical
2	57.1872	44.56	-21.82	22.74	40.00	17.26	186	294	Vertical
3	134.8649	36.12	-22.41	13.71	43.50	29.79	129	326	Vertical
4	230.02	35.26	-18.79	16.47	46.00	29.53	146	26	Vertical
5	383.4334	30.16	-15.66	14.50	46.00	31.50	246	3	Vertical
6	827.1672	30.65	-6.29	24.36	46.00	21.64	215	231	Vertical

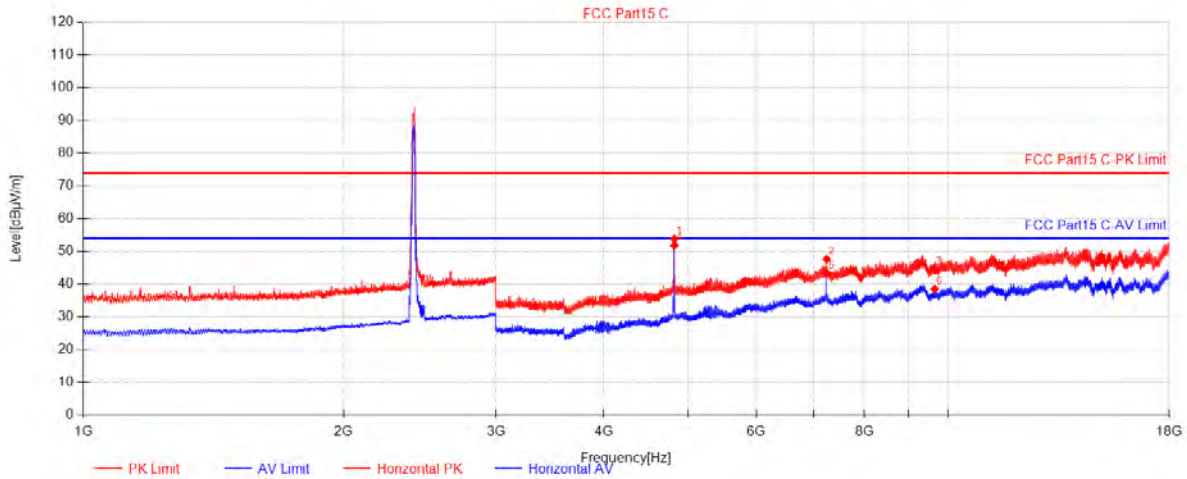


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**Transmitter emission above 1GHz**  
**802.11b\_Channel 01**

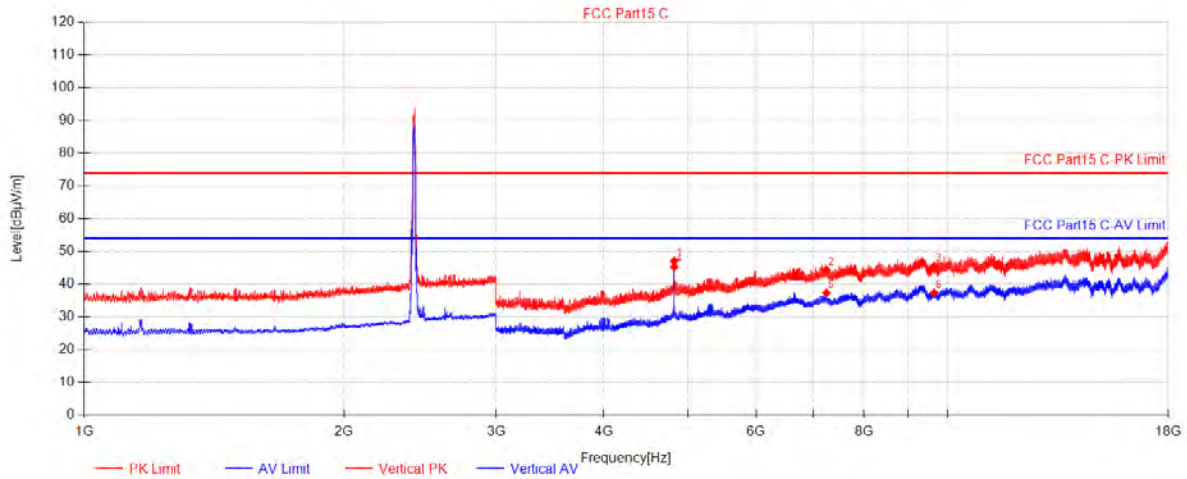


Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	66.99	-13.15	53.84	74.00	20.16	265	207	Horizontal
2	7236	54.59	-6.96	47.63	74.00	26.37	154	337	Horizontal
3	9648	45.65	-1.17	44.48	74.00	29.52	185	66	Horizontal
4	4824.5	65.04	-13.15	51.89	54.00	2.11	296	207	Horizontal
5	7238	50.25	-6.97	43.28	54.00	10.72	321	337	Horizontal
6	9648	39.69	-1.17	38.52	54.00	15.48	178	360	Horizontal



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802.11b\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	60.20	-13.15	47.05	74.00	26.95	155	32	Vertical
2	7236	51.34	-6.96	44.38	74.00	29.62	123	356	Vertical
3	9648	46.66	-1.17	45.49	74.00	28.51	198	135	Vertical
4	4824.5	58.46	-13.15	45.31	54.00	8.69	255	32	Vertical
5	7236	44.29	-6.96	37.33	54.00	16.67	148	265	Vertical
6	9648	38.49	-1.17	37.32	54.00	16.68	264	4	Vertical



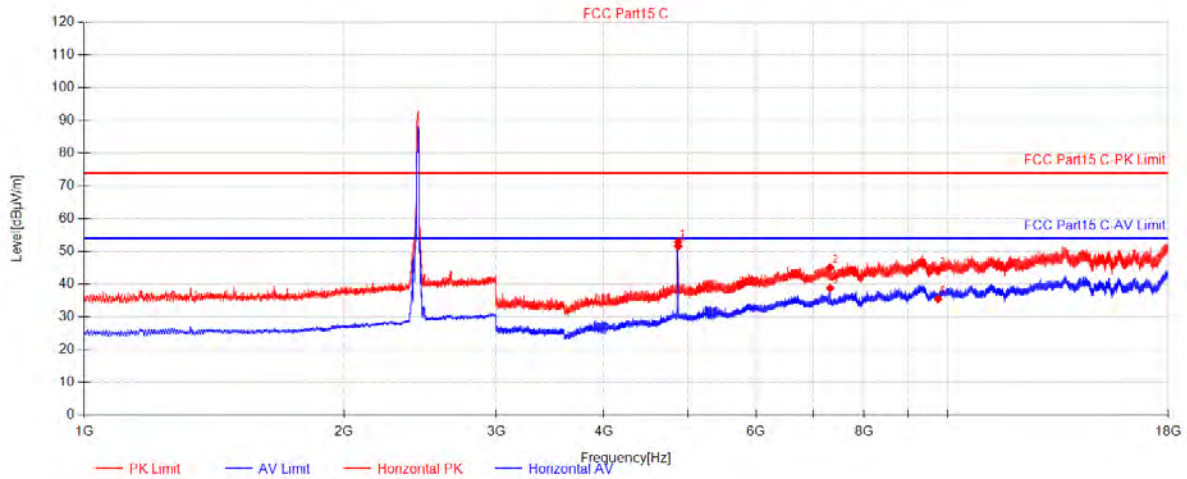
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802.11b\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	65.91	-13.01	52.90	74.00	21.10	301	234	Horizontal
2	7311	52.29	-7.17	45.12	74.00	28.88	185	360	Horizontal
3	9748	45.59	-1.18	44.41	74.00	29.59	149	100	Horizontal
4	4874.5	64.59	-13.00	51.59	54.00	2.41	278	234	Horizontal
5	7311	45.94	-7.17	38.77	54.00	15.23	291	304	Horizontal
6	9748	36.70	-1.18	35.52	54.00	18.48	150	68	Horizontal

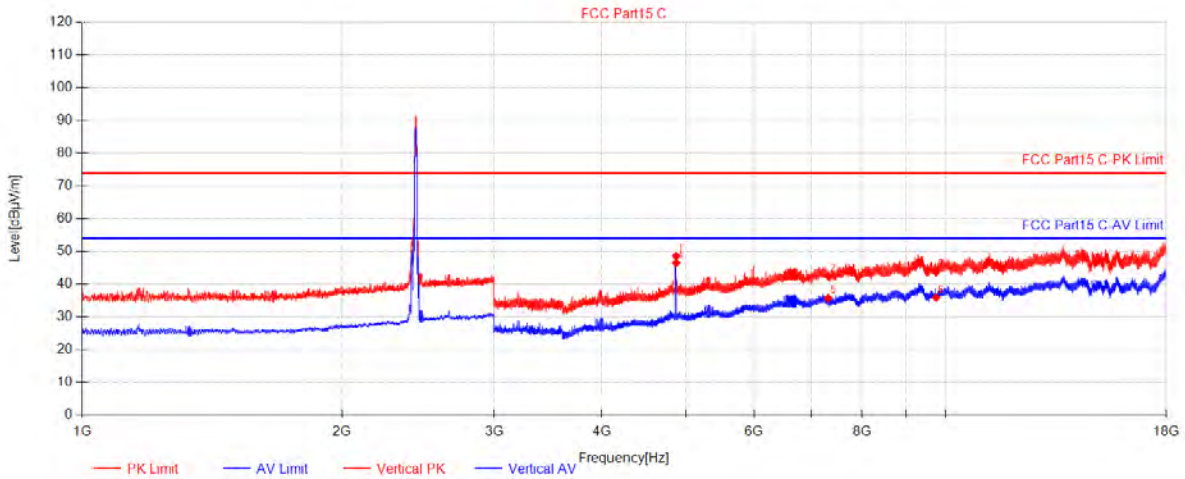


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802.11b\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	61.55	-13.01	48.54	74.00	25.46	196	360	Vertical
2	7311	49.63	-7.17	42.46	74.00	31.54	236	266	Vertical
3	9748	44.92	-1.18	43.74	74.00	30.26	145	244	Vertical
4	4874.5	59.47	-13.00	46.47	54.00	7.53	159	4	Vertical
5	7311	42.94	-7.17	35.77	54.00	18.23	276	33	Vertical
6	9748	37.10	-1.18	35.92	54.00	18.08	300	237	Vertical

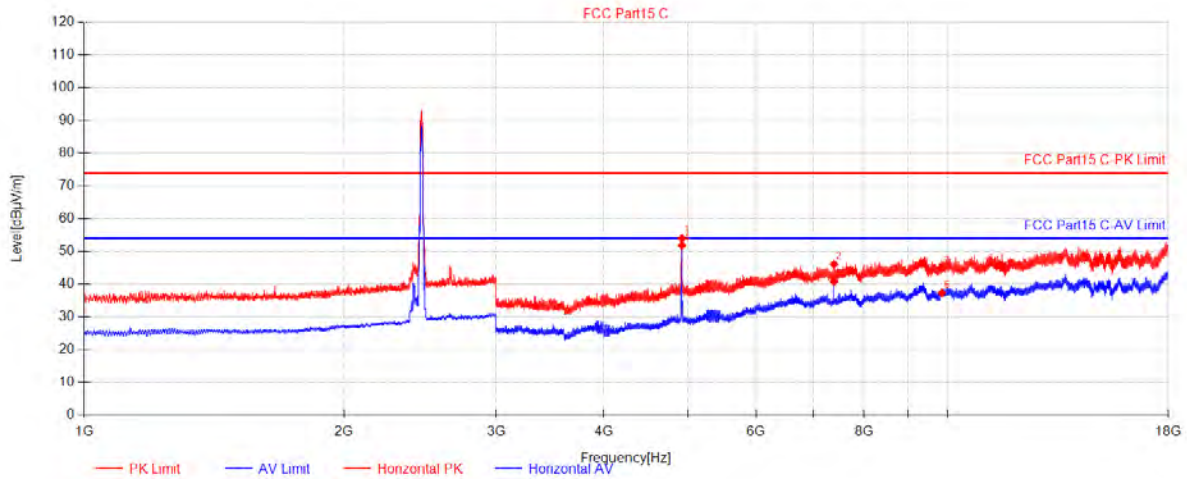


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802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	66.87	-12.89	53.98	74.00	20.02	265	238	Horizontal
2	7386	53.05	-6.96	46.09	74.00	27.91	264	342	Horizontal
3	9848	46.00	-1.12	44.88	74.00	29.12	185	167	Horizontal
4	4924.5	64.76	-12.89	51.87	54.00	2.13	150	238	Horizontal
5	7386	47.71	-6.96	40.75	54.00	13.25	196	342	Horizontal
6	9848	38.43	-1.12	37.31	54.00	16.69	150	310	Horizontal



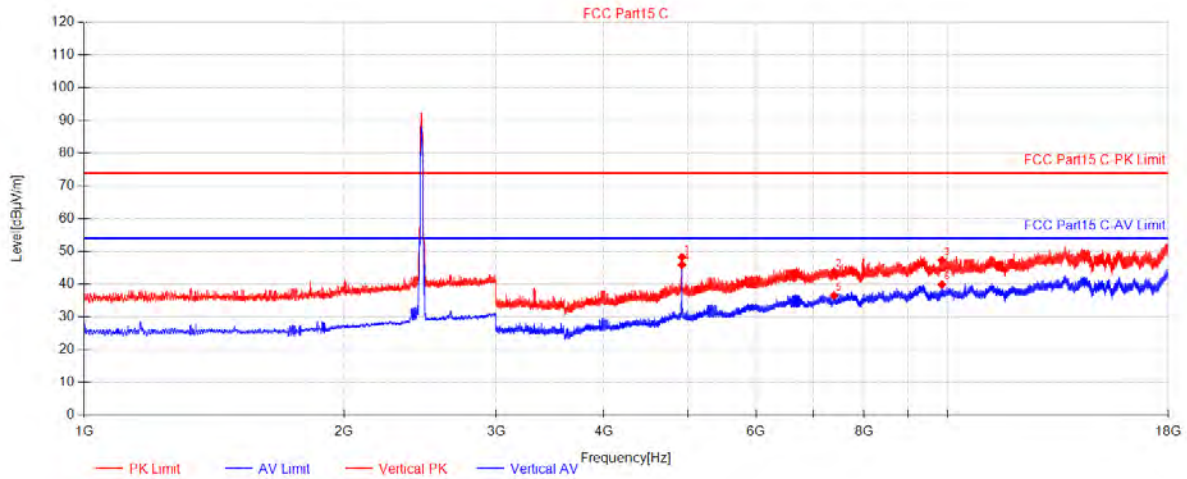
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802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	61.11	-12.89	48.22	74.00	25.78	166	266	Vertical
2	7386	50.82	-6.96	43.86	74.00	30.14	284	337	Vertical
3	9848	48.40	-1.12	47.28	74.00	26.72	193	334	Vertical
4	4924.5	58.80	-12.89	45.91	54.00	8.09	172	296	Vertical
5	7386	43.49	-6.96	36.53	54.00	17.47	189	360	Vertical
6	9848.5	40.97	-1.12	39.85	54.00	14.15	145	360	Vertical

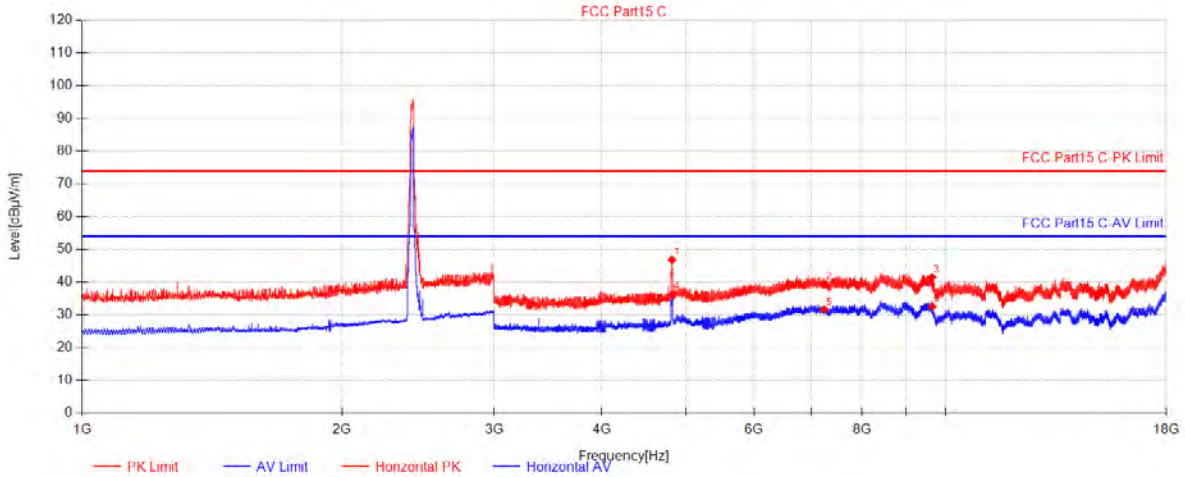


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802.11g\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4821	59.98	-13.16	46.82	74.00	27.18	265	265	Horizontal
2	7236	46.31	-6.96	39.35	74.00	34.65	145	284	Horizontal
3	9648	42.66	-1.17	41.49	74.00	32.51	286	115	Horizontal
4	4827.5	49.49	-13.14	36.35	54.00	17.65	196	163	Horizontal
5	7236	38.52	-6.96	31.56	54.00	22.44	145	185	Horizontal
6	9648	33.69	-1.17	32.52	54.00	21.48	221	133	Horizontal

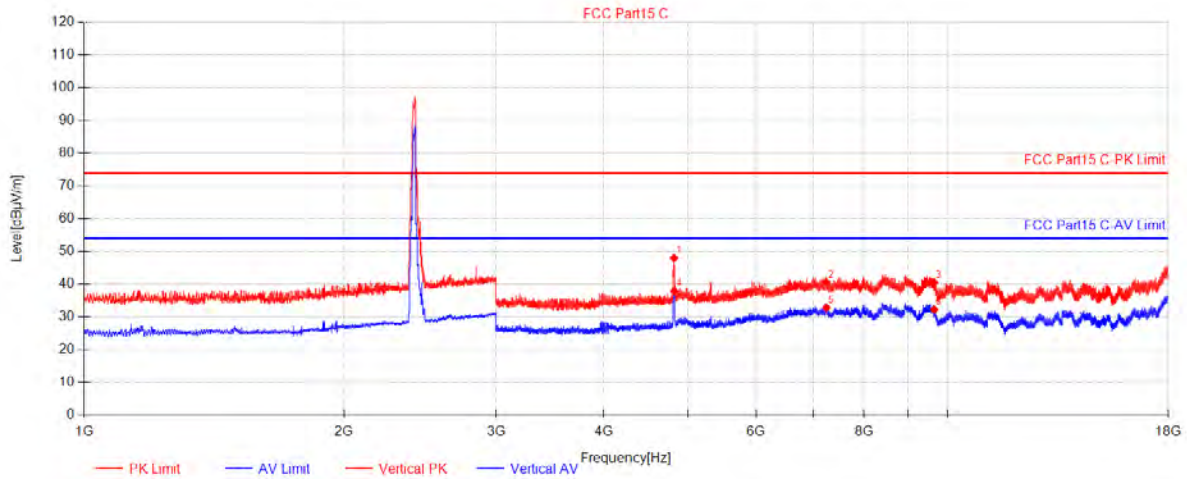


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802.11g\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4821.5	61.10	-13.16	47.94	74.00	26.06	198	336	Vertical
2	7236	47.50	-6.96	40.54	74.00	33.46	185	335	Vertical
3	9648	41.58	-1.17	40.41	74.00	33.59	160	357	Vertical
4	4824	51.04	-13.15	37.89	54.00	16.11	265	357	Vertical
5	7236	39.77	-6.96	32.81	54.00	21.19	145	265	Vertical
6	9648	33.36	-1.17	32.19	54.00	21.81	221	125	Vertical



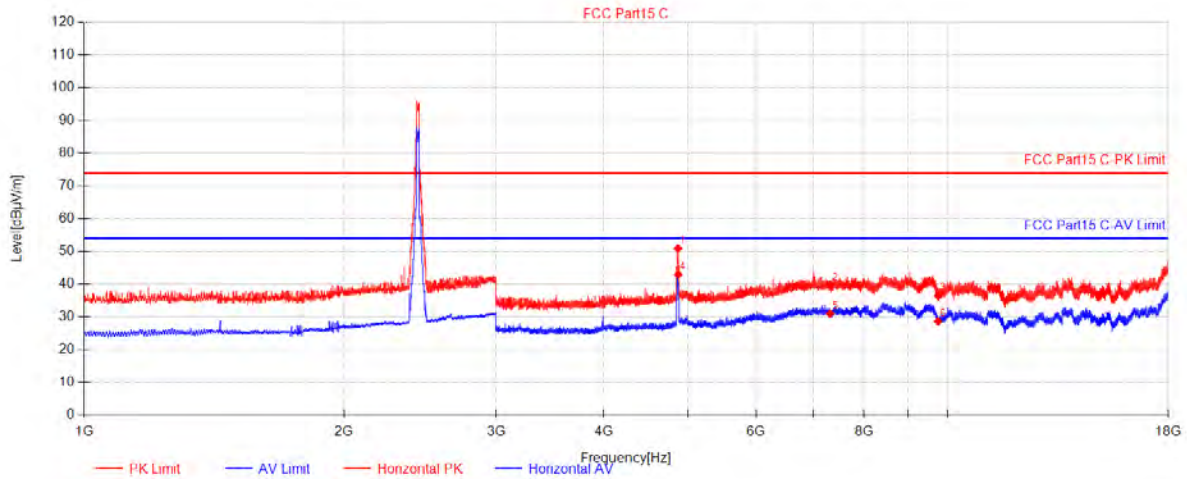
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802.11g\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.5	63.96	-13.01	50.95	74.00	23.05	165	165	Horizontal
2	7311	46.96	-7.17	39.79	74.00	34.21	123	254	Horizontal
3	9748	37.68	-1.18	36.50	74.00	37.50	189	196	Horizontal
4	4874.5	56.00	-13.00	43.00	54.00	11.00	145	220	Horizontal
5	7311	38.17	-7.17	31.00	54.00	23.00	120	185	Horizontal
6	9748	29.85	-1.18	28.67	54.00	25.33	178	237	Horizontal

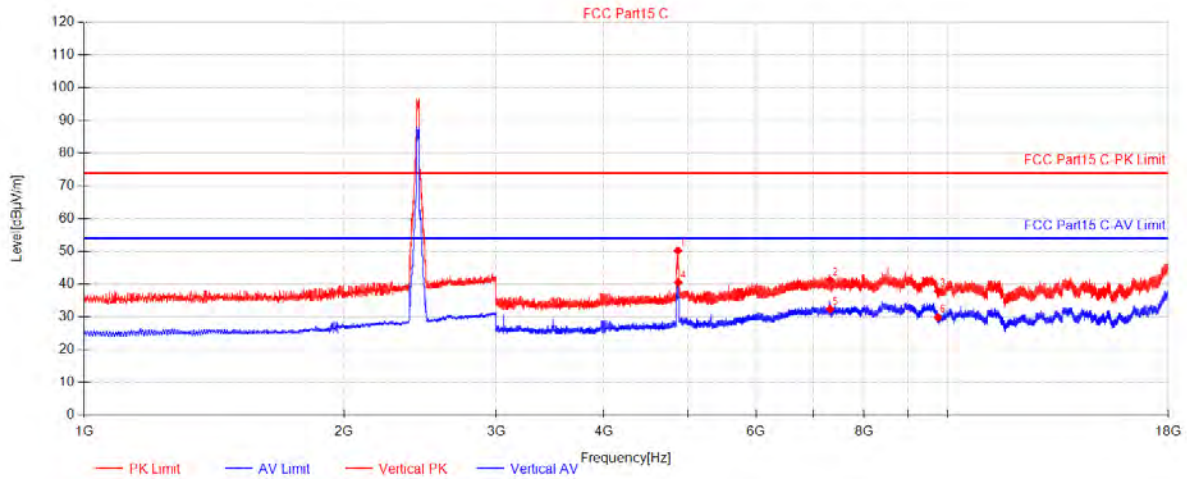


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802.11g\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4870.5	63.30	-13.02	50.28	74.00	23.72	166	229	Vertical
2	7311	48.37	-7.17	41.20	74.00	32.80	254	147	Vertical
3	9748	39.09	-1.18	37.91	74.00	36.09	189	357	Vertical
4	4876.5	53.46	-13.00	40.46	54.00	13.54	230	265	Vertical
5	7311	39.54	-7.17	32.37	54.00	21.63	173	14	Vertical
6	9748	31.00	-1.18	29.82	54.00	24.18	214	15	Vertical

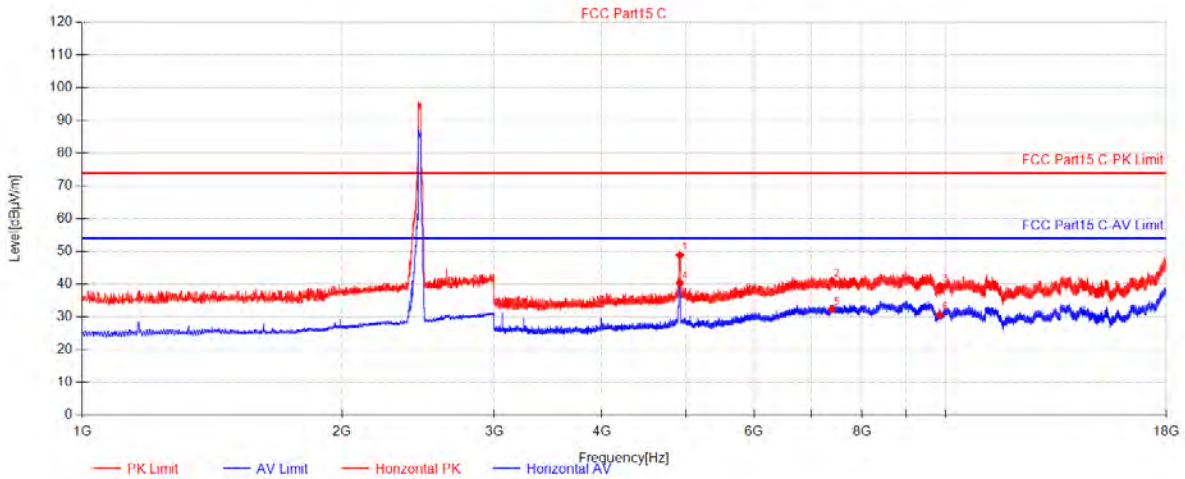


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802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.5	61.74	-12.89	48.85	74.00	25.15	165	336	Horizontal
2	7386	47.93	-6.96	40.97	74.00	33.03	198	335	Horizontal
3	9848	40.54	-1.12	39.42	74.00	34.58	231	233	Horizontal
4	4923.5	53.21	-12.89	40.32	54.00	13.68	224	189	Horizontal
5	7386	39.29	-6.96	32.33	54.00	21.67	120	13	Horizontal
6	9848	31.75	-1.12	30.63	54.00	23.37	144	283	Horizontal



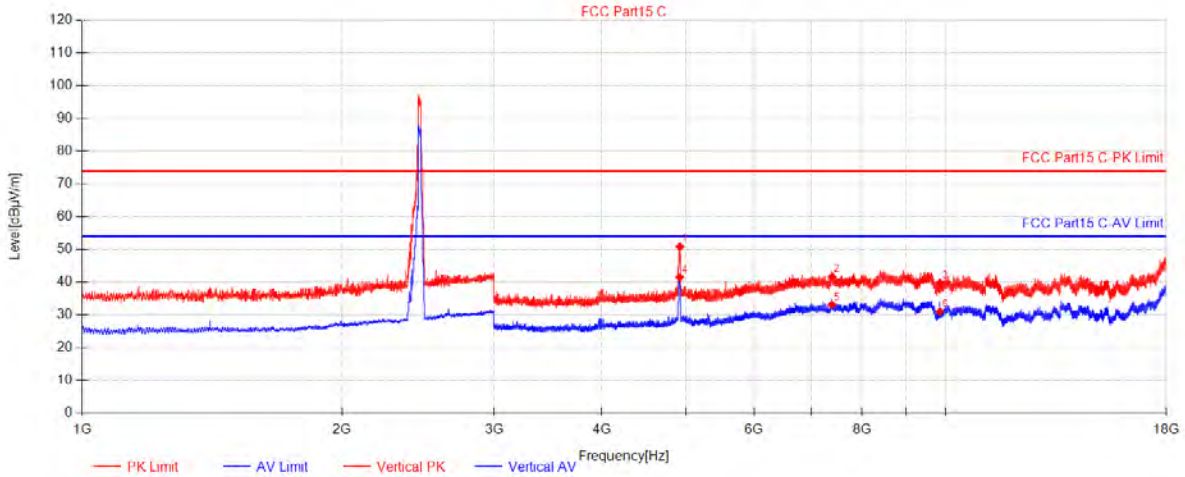
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802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923	63.78	-12.89	50.89	74.00	23.11	245	265	Vertical
2	7386	48.63	-6.96	41.67	74.00	32.33	145	311	Vertical
3	9848	40.86	-1.12	39.74	74.00	34.26	163	185	Vertical
4	4922.5	54.36	-12.89	41.47	54.00	12.53	298	111	Vertical
5	7386	40.04	-6.96	33.08	54.00	20.92	178	260	Vertical
6	9848	32.11	-1.12	30.99	54.00	23.01	210	13	Vertical

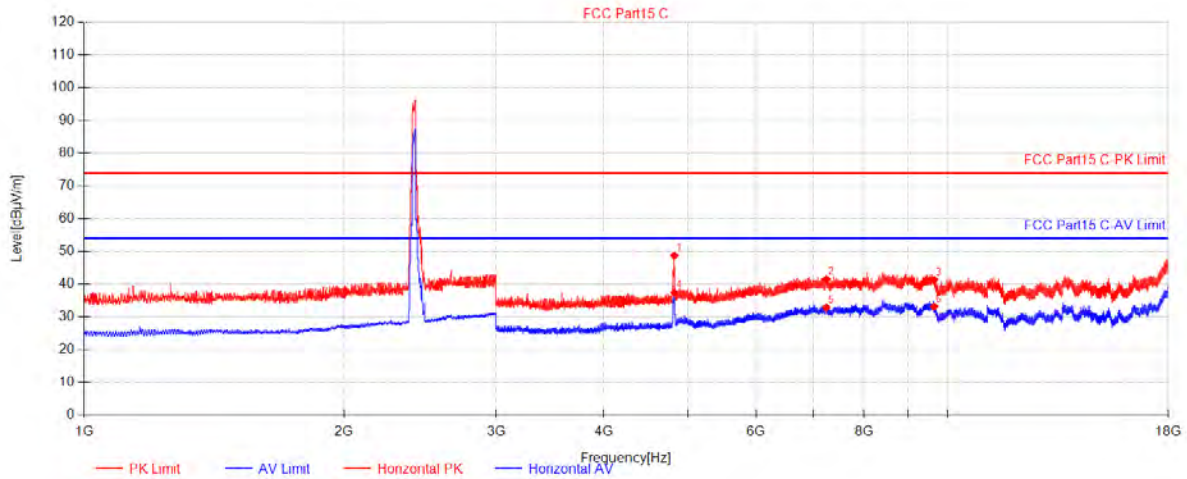


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802.11n20\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4826.5	61.86	-13.14	48.72	74.00	25.28	182	356	Horizontal
2	7236	48.48	-6.96	41.52	74.00	32.48	177	283	Horizontal
3	9648	42.48	-1.17	41.31	74.00	32.69	255	115	Horizontal
4	4827.5	50.47	-13.14	37.33	54.00	16.67	193	265	Horizontal
5	7236	39.80	-6.96	32.84	54.00	21.16	201	266	Horizontal
6	9648	34.31	-1.17	33.14	54.00	20.86	121	185	Horizontal

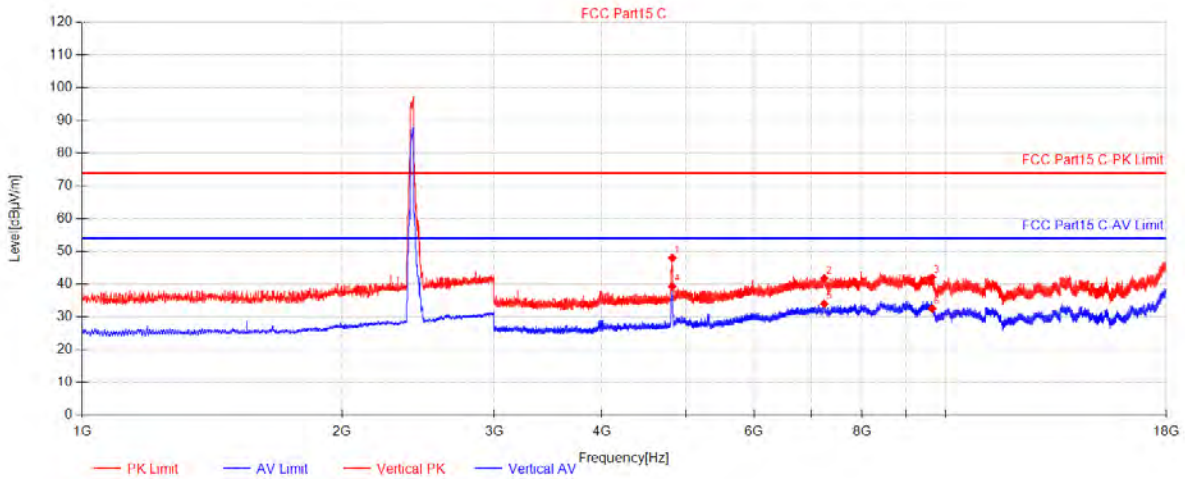


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802.11n20\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4825.5	61.14	-13.15	47.99	74.00	26.01	245	13	Vertical
2	7236	48.76	-6.96	41.80	74.00	32.20	240	234	Vertical
3	9648	43.25	-1.17	42.08	74.00	31.92	122	196	Vertical
4	4824.5	52.47	-13.15	39.32	54.00	14.68	165	185	Vertical
5	7236	40.95	-6.96	33.99	54.00	20.01	182	285	Vertical
6	9648	33.71	-1.17	32.54	54.00	21.46	163	125	Vertical

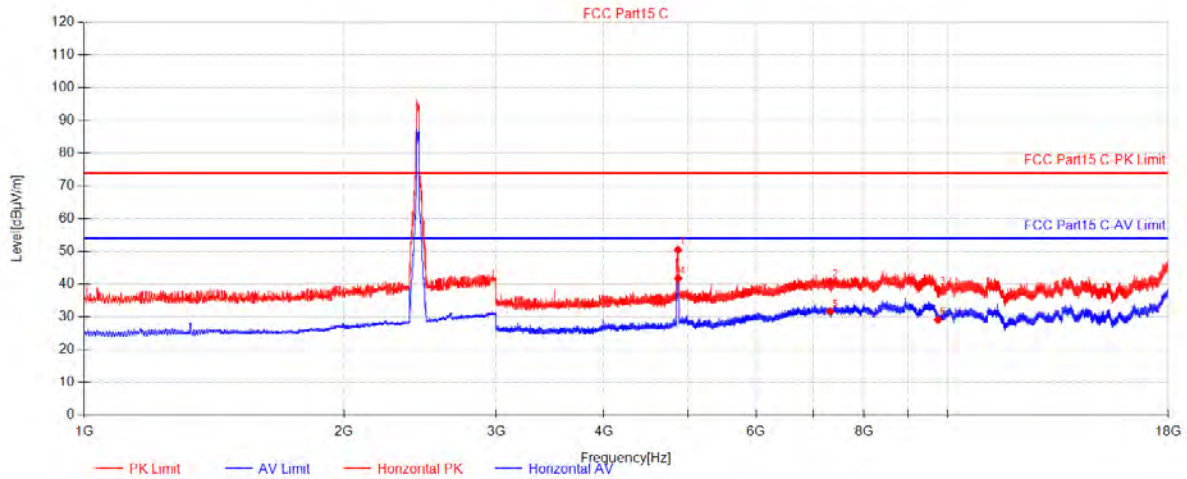


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802.11n20\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872	63.52	-13.01	50.51	74.00	23.49	186	265	Horizontal
2	7311	47.96	-7.17	40.79	74.00	33.21	196	159	Horizontal
3	9748	39.61	-1.18	38.43	74.00	35.57	214	287	Horizontal
4	4874	54.79	-13.01	41.78	54.00	12.22	177	115	Horizontal
5	7311	38.73	-7.17	31.56	54.00	22.44	120	287	Horizontal
6	9748	30.32	-1.18	29.14	54.00	24.86	166	209	Horizontal

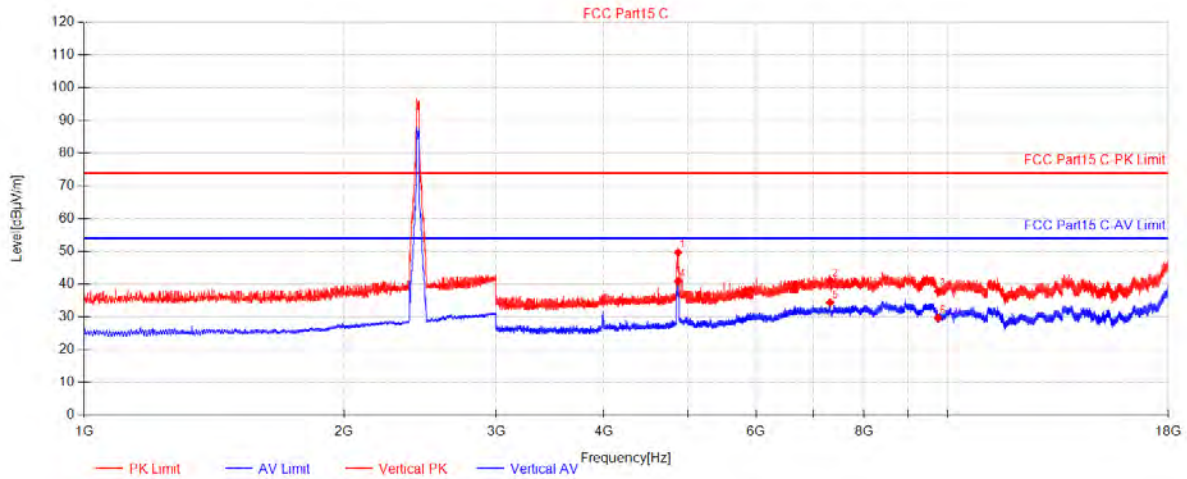


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802.11n20\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	62.72	-13.01	49.71	74.00	24.29	165	163	Vertical
2	7311	48.23	-7.17	41.06	74.00	32.94	163	312	Vertical
3	9748	39.04	-1.18	37.86	74.00	36.14	224	129	Vertical
4	4874	53.90	-13.01	40.89	54.00	13.11	123	336	Vertical
5	7311	41.58	-7.17	34.41	54.00	19.59	189	288	Vertical
6	9748	30.87	-1.18	29.69	54.00	24.31	172	196	Vertical

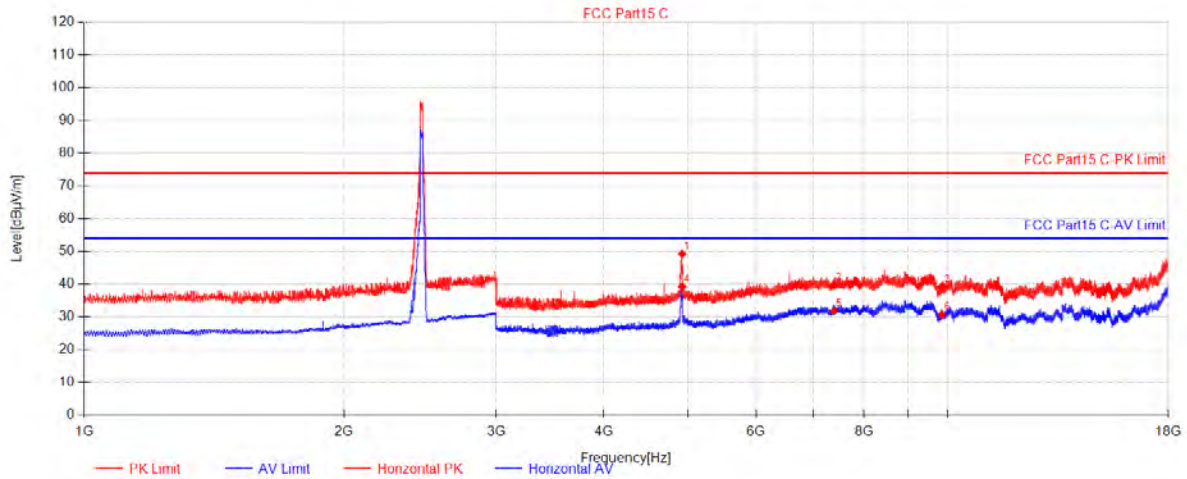


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802.11n20\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4927	62.12	-12.88	49.24	74.00	24.76	185	36	Horizontal
2	7386	46.57	-6.96	39.61	74.00	34.39	145	60	Horizontal
3	9848	40.38	-1.12	39.26	74.00	34.74	210	262	Horizontal
4	4926.5	52.10	-12.88	39.22	54.00	14.78	265	122	Horizontal
5	7386	38.74	-6.96	31.78	54.00	22.22	192	85	Horizontal
6	9848	31.85	-1.12	30.73	54.00	23.27	178	287	Horizontal



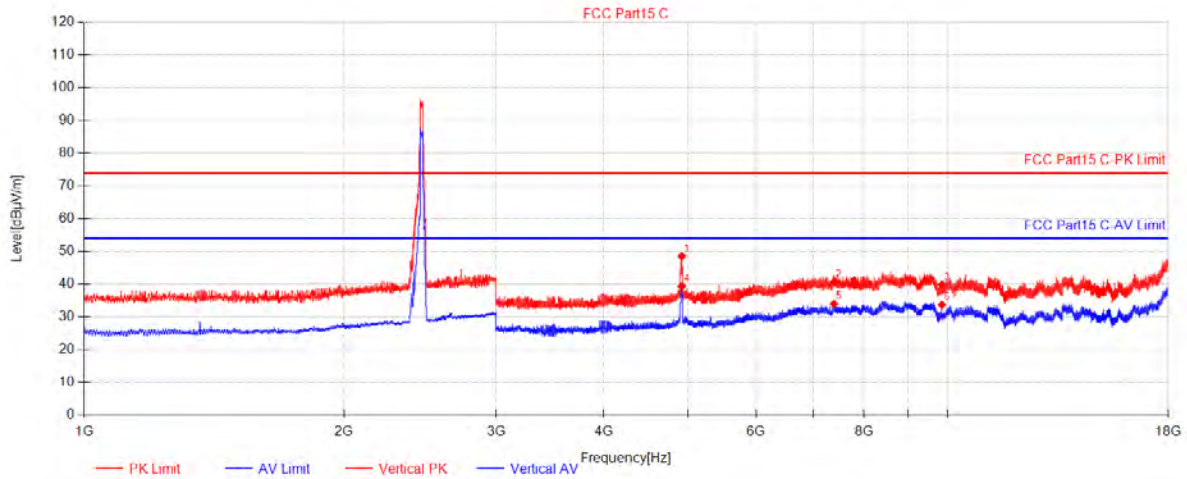
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802.11n20\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4922	61.42	-12.89	48.53	74.00	25.47	185	163	Vertical
2	7386	47.56	-6.96	40.60	74.00	33.40	196	260	Vertical
3	9848	40.92	-1.12	39.80	74.00	34.20	122	334	Vertical
4	4922	52.26	-12.89	39.37	54.00	14.63	163	125	Vertical
5	7386	40.95	-6.96	33.99	54.00	20.01	145	288	Vertical
6	9848.5	34.82	-1.12	33.70	54.00	20.30	123	13	Vertical

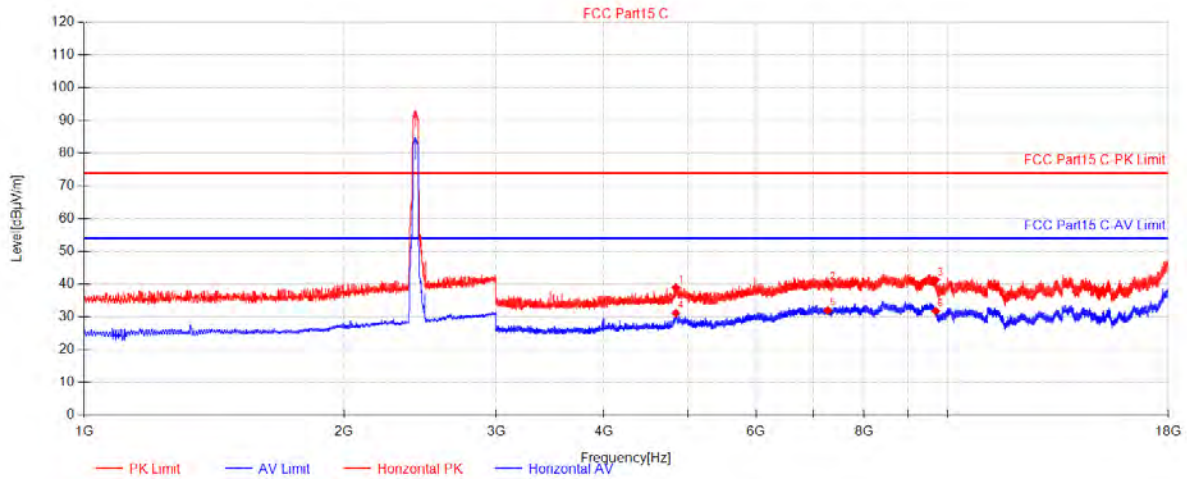


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802.11n40\_Channel 03



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	52.03	-13.09	38.94	74.00	35.06	196	133	Horizontal
2	7266	47.08	-7.07	40.01	74.00	33.99	124	184	Horizontal
3	9688	42.40	-1.12	41.28	74.00	32.72	186	13	Horizontal
4	4844	44.22	-13.09	31.13	54.00	22.87	230	120	Horizontal
5	7266	39.00	-7.07	31.93	54.00	22.07	145	159	Horizontal
6	9688	32.90	-1.12	31.78	54.00	22.22	122	335	Horizontal

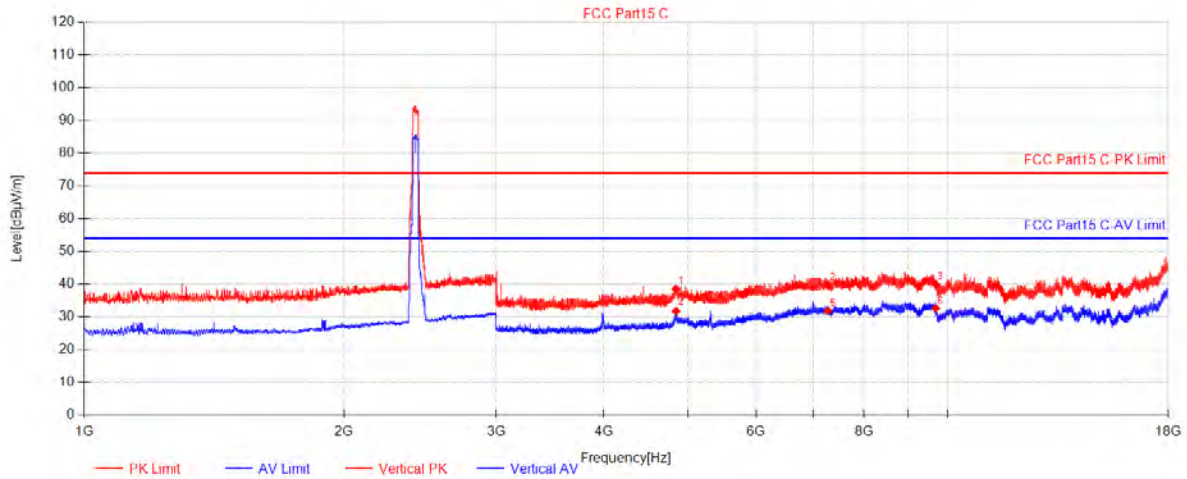


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802.11n40\_Channel 03



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	51.65	-13.09	38.56	74.00	35.44	132	156	Vertical
2	7266	46.72	-7.07	39.65	74.00	34.35	185	285	Vertical
3	9688	41.05	-1.12	39.93	74.00	34.07	234	130	Vertical
4	4847.5	44.81	-13.08	31.73	54.00	22.27	114	334	Vertical
5	7266	38.88	-7.07	31.81	54.00	22.19	126	84	Vertical
6	9688	33.75	-1.12	32.63	54.00	21.37	145	148	Vertical



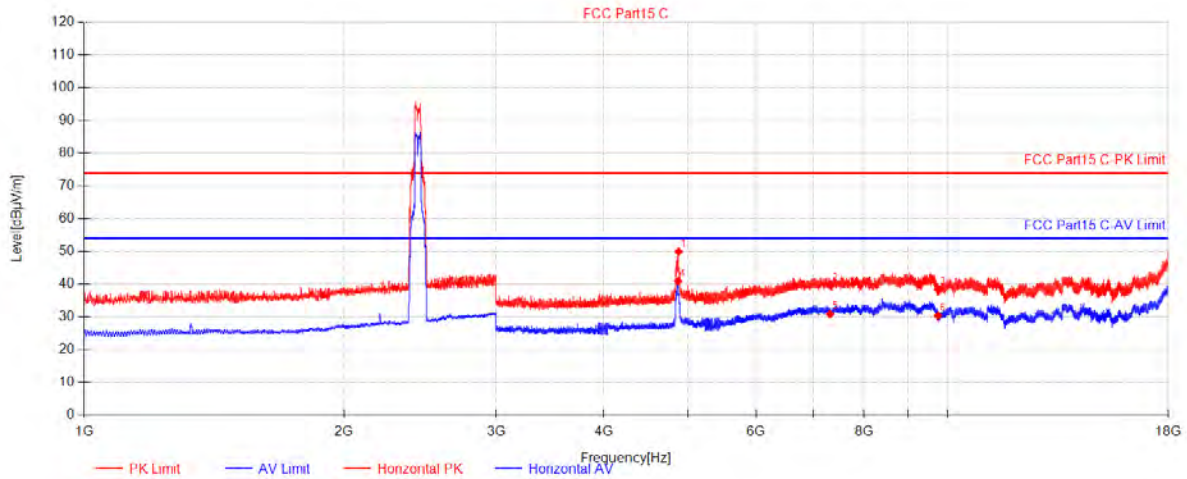
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802.11n40\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.5	62.94	-12.99	49.95	74.00	24.05	163	129	Horizontal
2	7311	46.89	-7.17	39.72	74.00	34.28	189	73	Horizontal
3	9748	39.51	-1.18	38.33	74.00	35.67	221	309	Horizontal
4	4873	53.97	-13.01	40.96	54.00	13.04	124	158	Horizontal
5	7311	38.02	-7.17	30.85	54.00	23.15	251	60	Horizontal
6	9748	31.59	-1.18	30.41	54.00	23.59	177	280	Horizontal

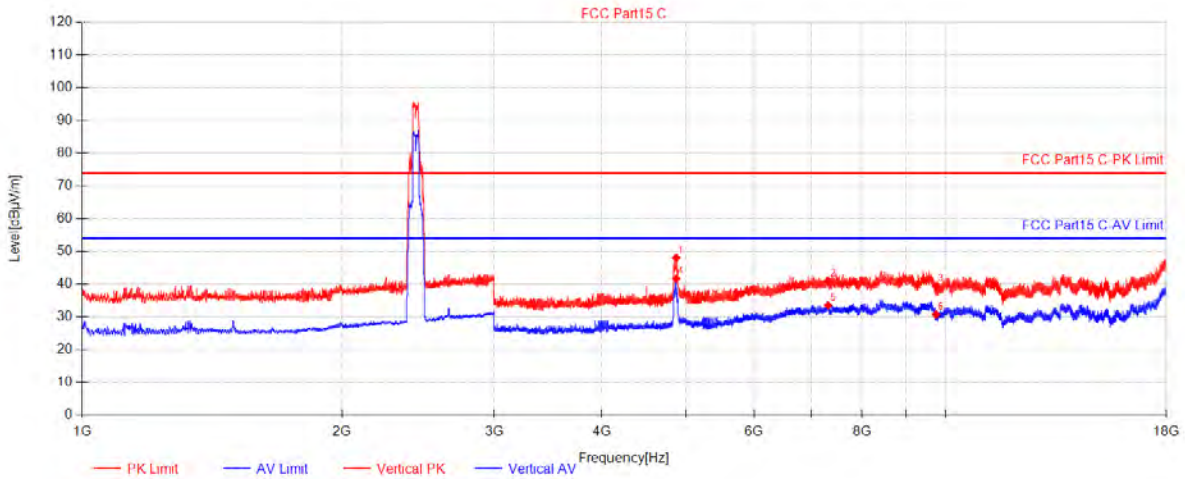


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802.11n40\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	61.02	-13.01	48.01	74.00	25.99	169	357	Vertical
2	7311	48.04	-7.17	40.87	74.00	33.13	254	286	Vertical
3	9748	40.55	-1.18	39.37	74.00	34.63	188	357	Vertical
4	4874.5	54.70	-13.00	41.70	54.00	12.30	111	145	Vertical
5	7311	40.70	-7.17	33.53	54.00	20.47	172	284	Vertical
6	9748	31.91	-1.18	30.73	54.00	23.27	180	165	Vertical

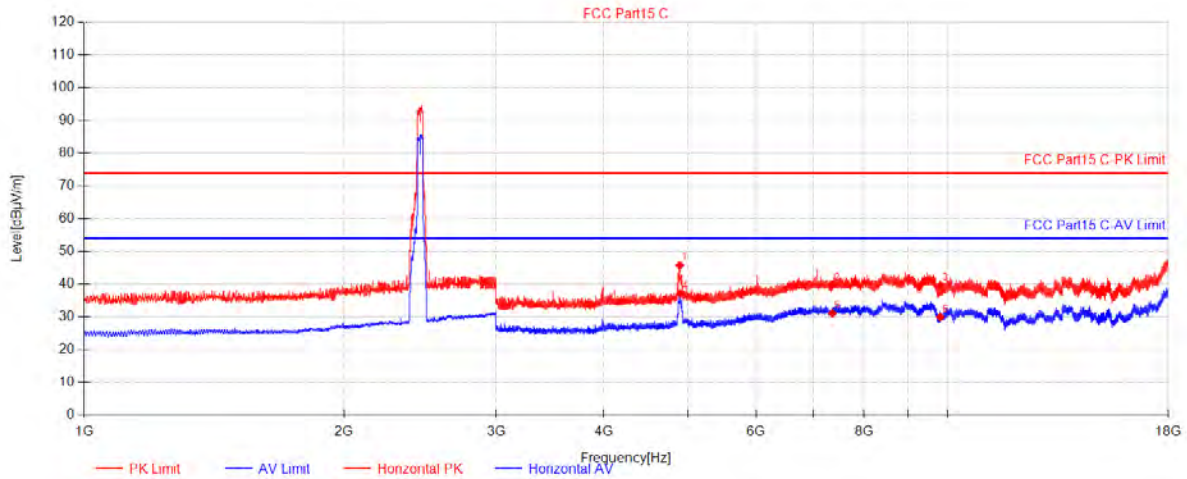


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802.11n40\_Channel 09



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4896.5	58.70	-12.94	45.76	74.00	28.24	165	296	Horizontal
2	7356	46.85	-7.05	39.80	74.00	34.20	254	212	Horizontal
3	9808	40.88	-1.24	39.64	74.00	34.36	123	312	Horizontal
4	4905.5	50.06	-12.92	37.14	54.00	16.86	189	334	Horizontal
5	7356	38.15	-7.05	31.10	54.00	22.90	160	115	Horizontal
6	9808	31.18	-1.24	29.94	54.00	24.06	144	215	Horizontal



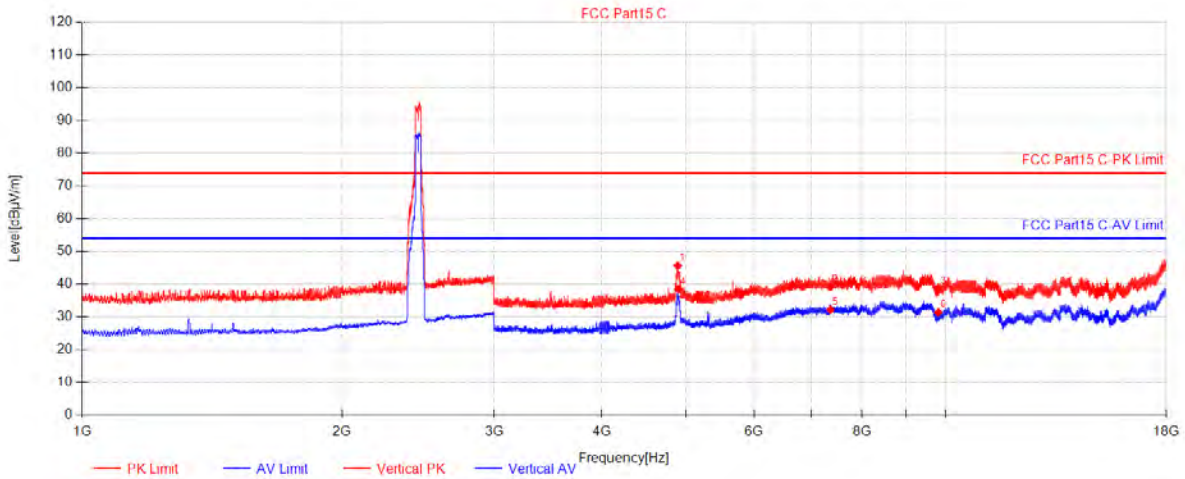
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802.11n40\_Channel 09



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4895.5	58.57	-12.94	45.63	74.00	28.37	159	356	Vertical
2	7356	46.21	-7.05	39.16	74.00	34.84	178	125	Vertical
3	9808	40.00	-1.24	38.76	74.00	35.24	192	82	Vertical
4	4904	51.38	-12.92	38.46	54.00	15.54	201	166	Vertical
5	7356	39.21	-7.05	32.16	54.00	21.84	162	189	Vertical
6	9808	32.60	-1.24	31.36	54.00	22.64	184	25	Vertical

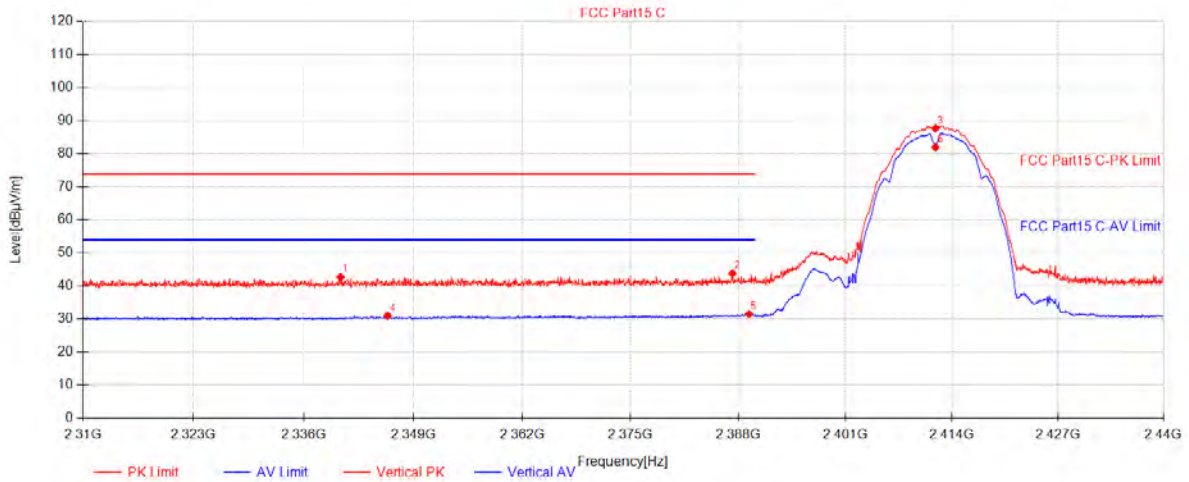


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802.11b\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2340.3767	39.56	3.09	42.65	74.00	31.35	260	316	Vertical
2	2387.3067	40.69	3.07	43.76	74.00	30.24	260	316	Vertical
3	2412	84.61	3.15	87.76	-	-	260	316	Vertical
4	2345.9667	27.89	3.09	30.98	54.00	23.02	260	316	Vertical
5	2389.3	28.44	3.07	31.51	54.00	22.49	260	316	Vertical
6	2412	78.79	3.15	81.94	-	-	260	316	Vertical

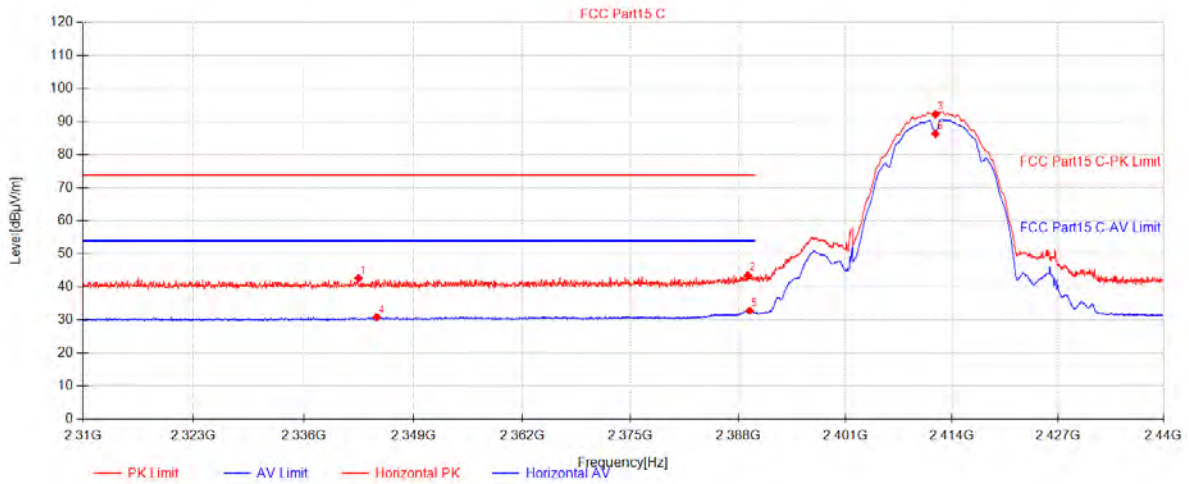


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802.11b\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.5	39.53	3.09	42.62	74.00	31.38	188	275	Horizontal
2	2389.17	40.42	3.07	43.49	74.00	30.51	188	275	Horizontal
3	2412	89.16	3.15	92.31	-	-	188	275	Horizontal
4	2344.6667	27.74	3.09	30.83	54.00	23.17	188	275	Horizontal
5	2389.3867	29.73	3.07	32.80	54.00	21.20	188	275	Horizontal
6	2412	83.22	3.15	86.37	-	-	188	275	Horizontal



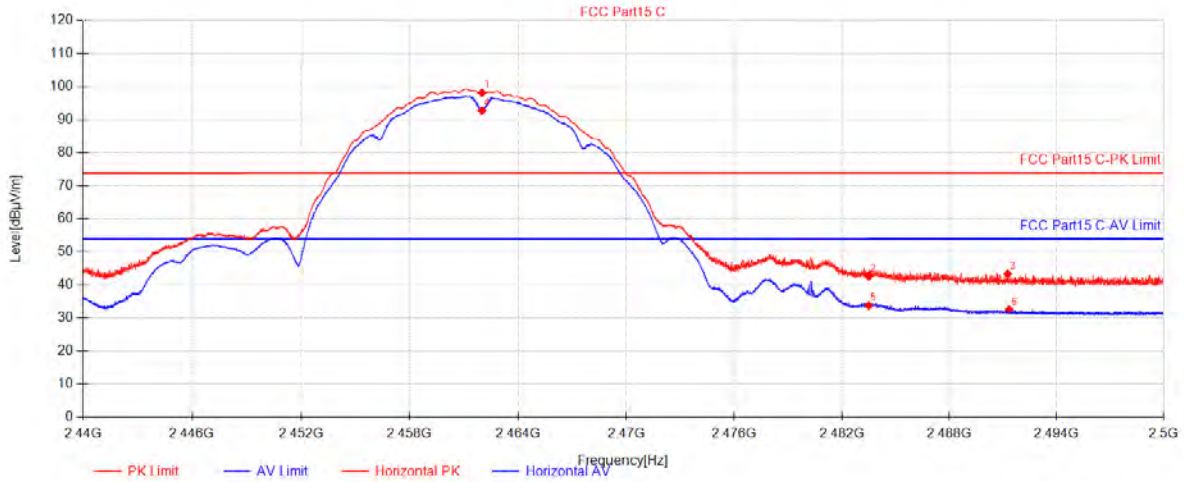
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802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	94.70	3.46	98.16	-	-	240	45	Horizontal
2	2483.5	38.92	3.60	42.52	74.00	31.48	240	45	Horizontal
3	2491.27	39.66	3.65	43.31	74.00	30.69	240	45	Horizontal
4	2462	89.30	3.46	92.76	-	-	240	45	Horizontal
5	2483.5	30.20	3.60	33.80	54.00	20.20	240	45	Horizontal
6	2491.36	28.96	3.65	32.61	54.00	21.39	240	45	Horizontal

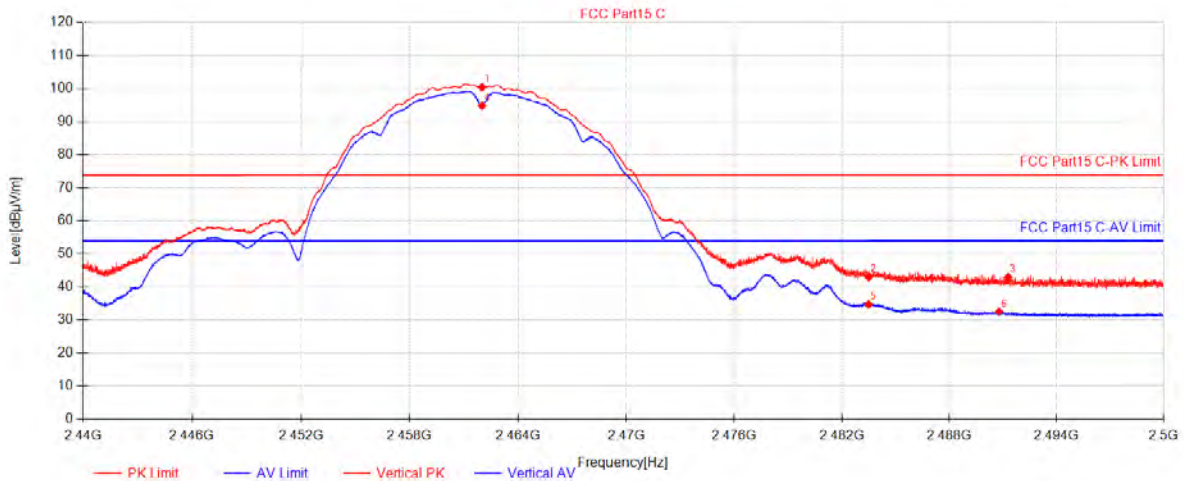


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802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	96.97	3.46	100.43	-	-	266	136	Vertical
2	2483.5	39.37	3.60	42.97	74.00	31.03	266	136	Vertical
3	2491.3	39.34	3.65	42.99	74.00	31.01	266	136	Vertical
4	2462	91.39	3.46	94.85	-	-	266	136	Vertical
5	2483.5	31.16	3.60	34.76	54.00	19.24	266	136	Vertical
6	2490.7975	28.89	3.64	32.53	54.00	21.47	266	136	Vertical

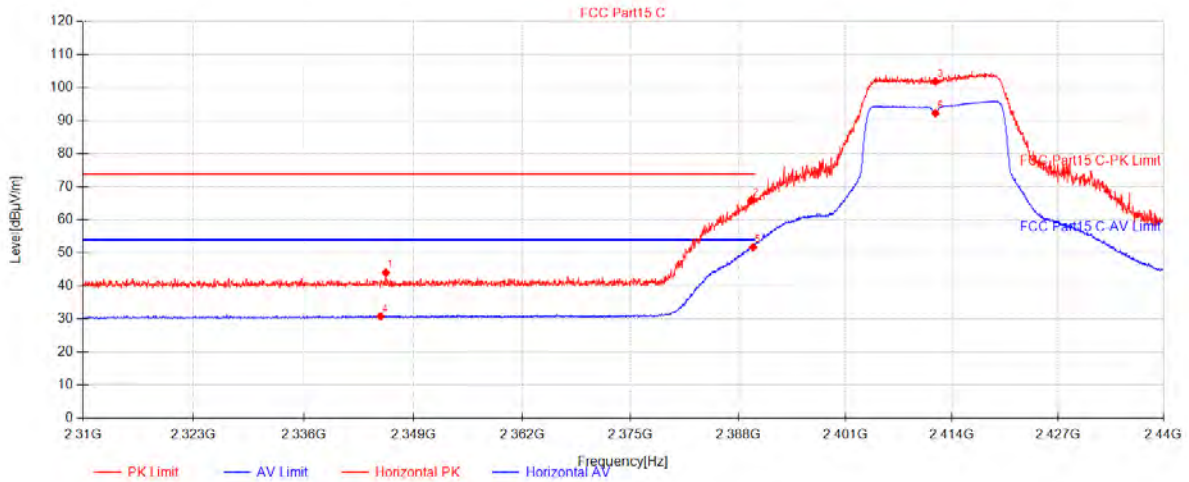


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802.11g\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2345.75	40.91	3.09	44.00	74.00	30.00	111	95	Horizontal
2	2389.6033	62.87	3.07	65.94	74.00	8.06	111	95	Horizontal
3	2412	98.73	3.15	101.88	-	-	111	95	Horizontal
4	2345.1	27.68	3.09	30.77	54.00	23.23	111	95	Horizontal
5	2389.82	48.69	3.07	51.76	54.00	2.24	111	95	Horizontal
6	2412	89.17	3.15	92.32	-	-	111	95	Horizontal



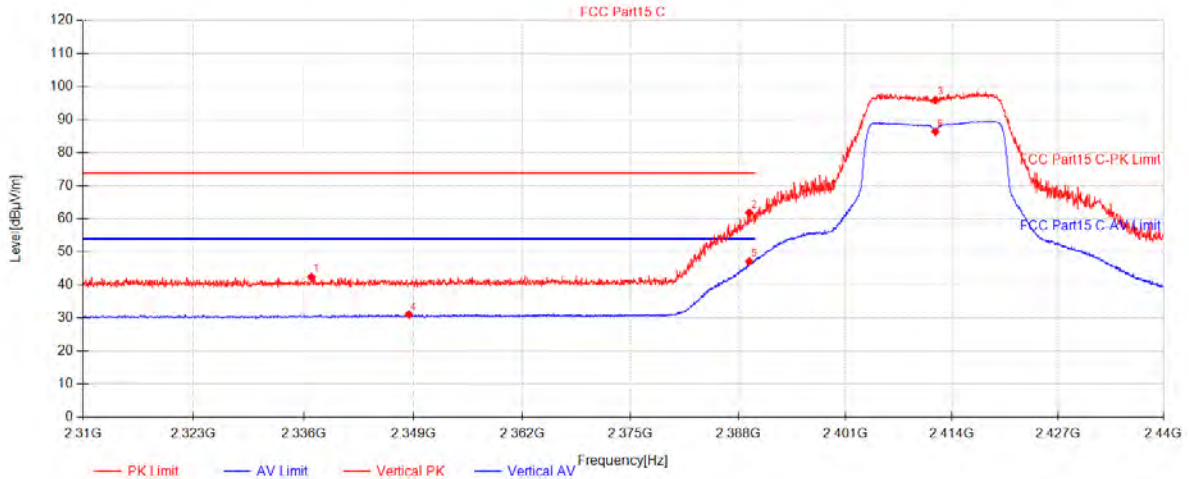
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802.11g\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2336.91	39.30	3.09	42.39	74.00	31.61	302	74	Vertical
2	2389.3433	58.79	3.07	61.86	74.00	12.14	302	74	Vertical
3	2412	92.86	3.15	96.01	-	-	302	74	Vertical
4	2348.48	27.97	3.09	31.06	54.00	22.94	302	74	Vertical
5	2389.3433	43.99	3.07	47.06	54.00	6.94	302	74	Vertical
6	2412	83.24	3.15	86.39	-	-	302	74	Vertical

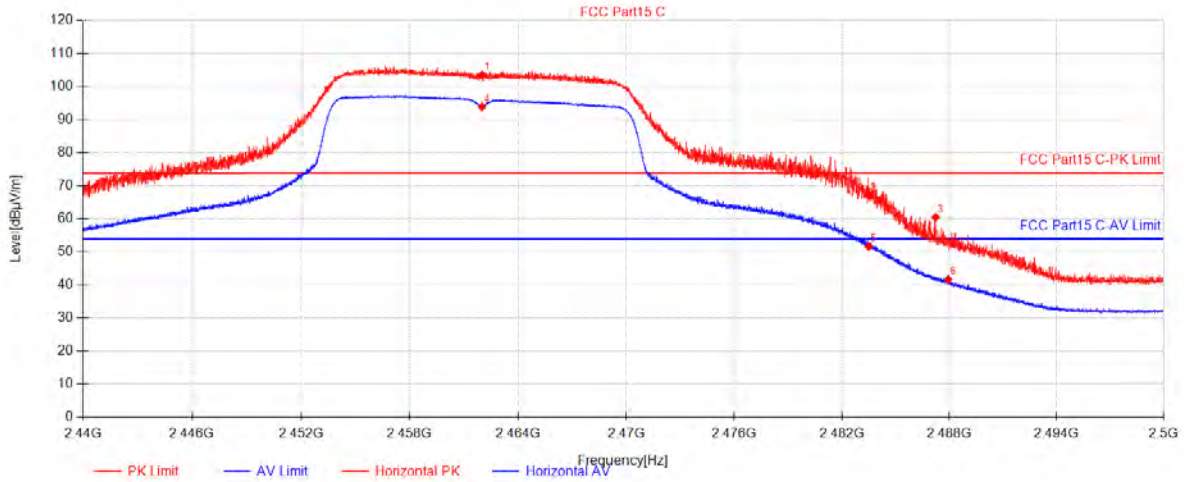


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802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	100.17	3.46	103.63	-	-	197	93	Horizontal
2	2483.5	63.55	3.60	67.15	74.00	6.85	197	93	Horizontal
3	2487.2425	56.85	3.62	60.47	74.00	13.53	197	93	Horizontal
4	2462	90.49	3.46	93.95	-	-	197	93	Horizontal
5	2483.5	48.07	3.60	51.67	54.00	2.33	197	93	Horizontal
6	2487.9475	38.03	3.62	41.65	54.00	12.35	197	93	Horizontal

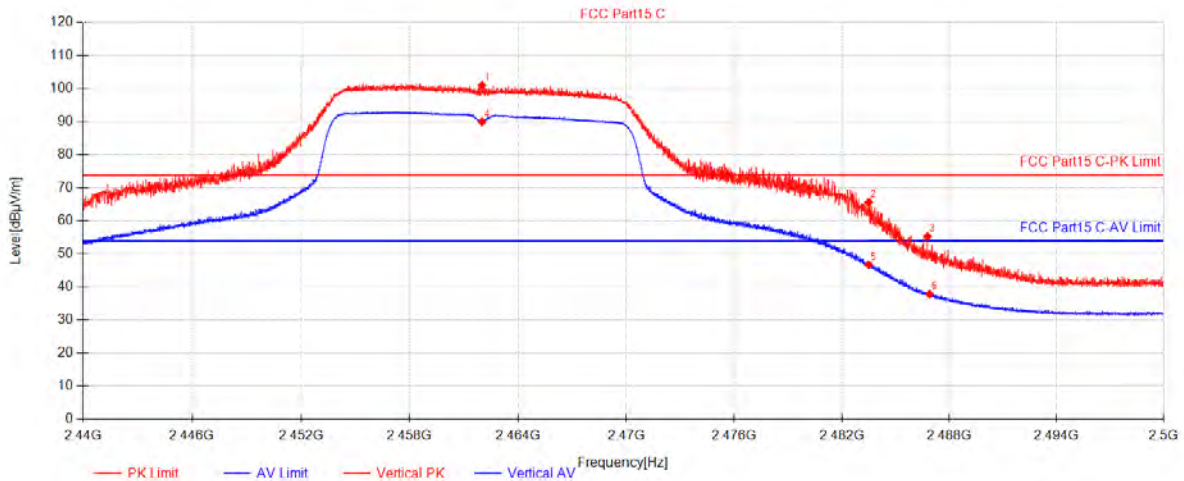


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802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	97.51	3.46	100.97	-	-	293	69	Vertical
2	2483.5	62.02	3.60	65.62	74.00	8.38	293	69	Vertical
3	2486.785	51.70	3.62	55.32	74.00	18.68	293	69	Vertical
4	2462	86.57	3.46	90.03	-	-	293	69	Vertical
5	2483.5	43.11	3.60	46.71	54.00	7.29	293	69	Vertical
6	2486.905	34.23	3.62	37.85	54.00	16.15	293	69	Vertical



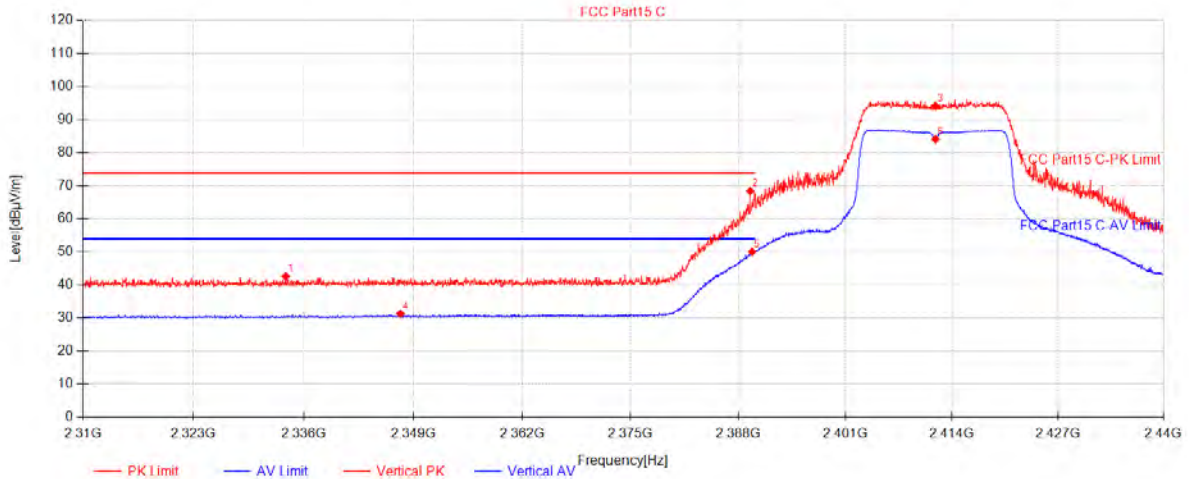
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802.11n20\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2333.8767	39.48	3.09	42.57	74.00	42.57	219	74	Vertical
2	2389.4733	65.36	3.07	68.43	74.00	68.43	219	74	Vertical
3	2412	91.01	3.15	94.16	-	-	219	74	Vertical
4	2347.4833	28.17	3.09	31.26	54.00	31.26	219	74	Vertical
5	2389.69	46.99	3.07	50.06	54.00	3.94	219	74	Vertical
6	2412	80.97	3.15	84.12	-	-	219	74	Vertical

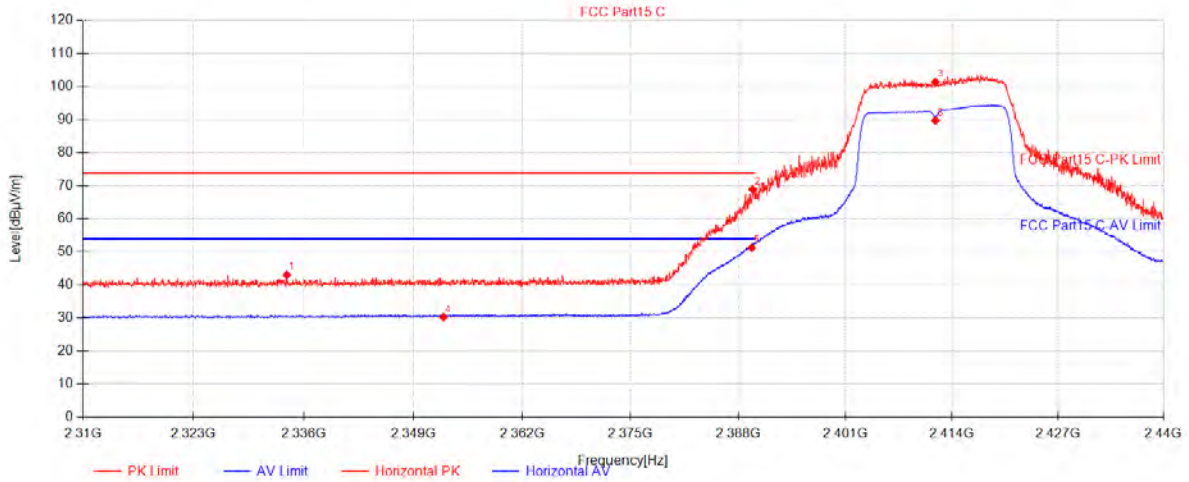


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802.11n20\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2334.0067	39.94	3.09	43.03	74.00	30.97	335	145	Horizontal
2	2389.7333	65.87	3.07	68.94	74.00	5.06	335	145	Horizontal
3	2412	98.27	3.15	101.42	-	-	335	145	Horizontal
4	2352.5967	27.16	3.08	30.24	54.00	23.76	335	145	Horizontal
5	2389.6467	48.23	3.07	51.30	54.00	2.70	335	145	Horizontal
6	2412	86.69	3.15	89.84	-	-	335	145	Horizontal

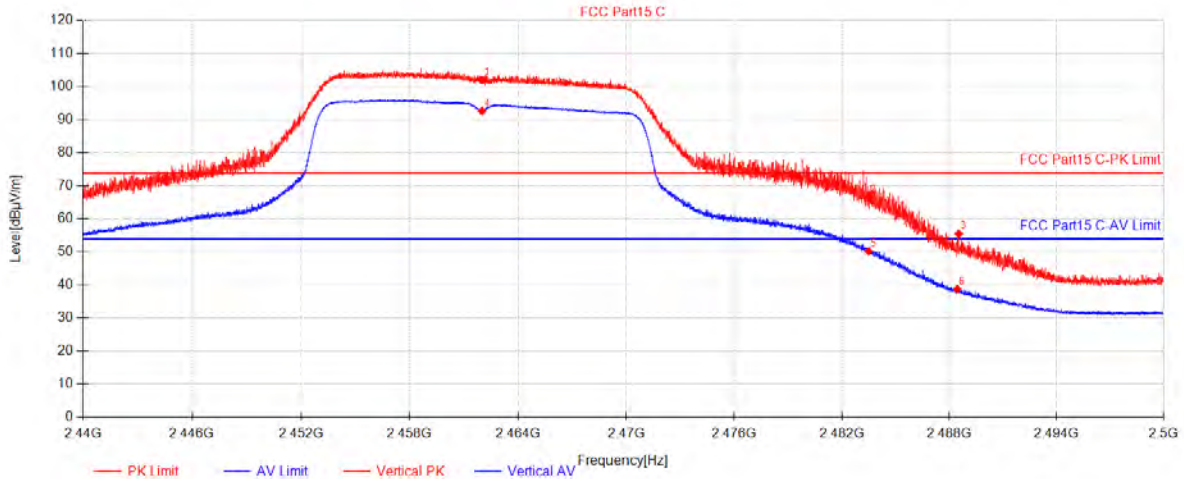


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802.11n20\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	98.57	3.46	102.03	-	-	156	94	Vertical
2	2483.5	62.92	3.60	66.52	74.00	7.48	156	94	Vertical
3	2488.5325	51.89	3.63	55.52	74.00	18.48	156	94	Vertical
4	2462	89.21	3.46	92.67	-	-	156	94	Vertical
5	2483.5	46.55	3.60	50.15	54.00	3.85	156	94	Vertical
6	2488.45	35.12	3.63	38.75	54.00	15.25	156	94	Vertical



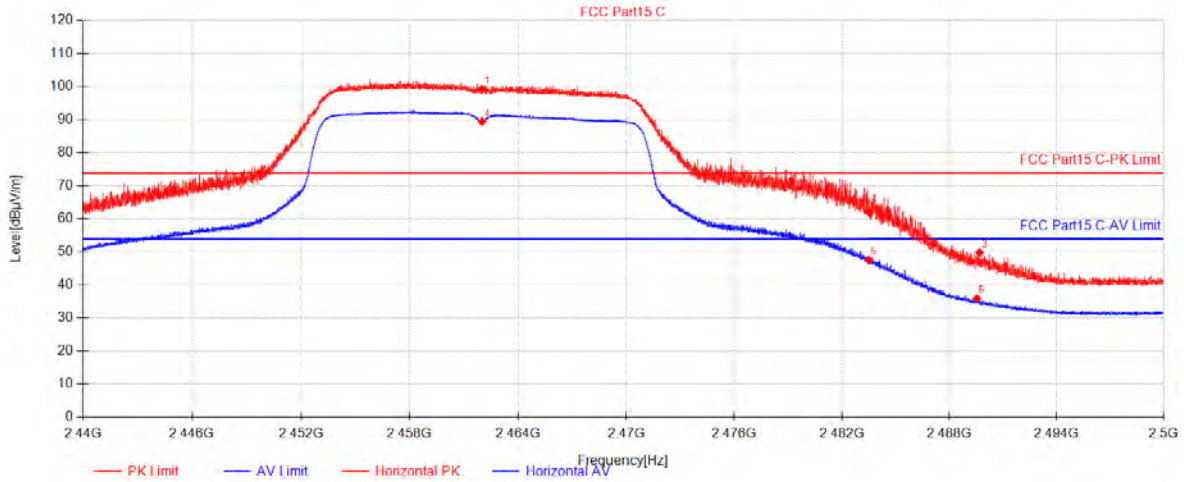
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802.11n20\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	95.76	3.46	99.22	-	-	173	36	Horizontal
2	2483.5	58.39	3.60	61.99	74.00	12.01	173	36	Horizontal
3	2489.695	46.20	3.64	49.84	74.00	24.16	173	36	Horizontal
4	2462	86.04	3.46	89.50	-	-	173	36	Horizontal
5	2483.5	43.93	3.60	47.53	54.00	6.47	173	36	Horizontal
6	2489.545	32.35	3.63	35.98	54.00	18.02	173	36	Horizontal



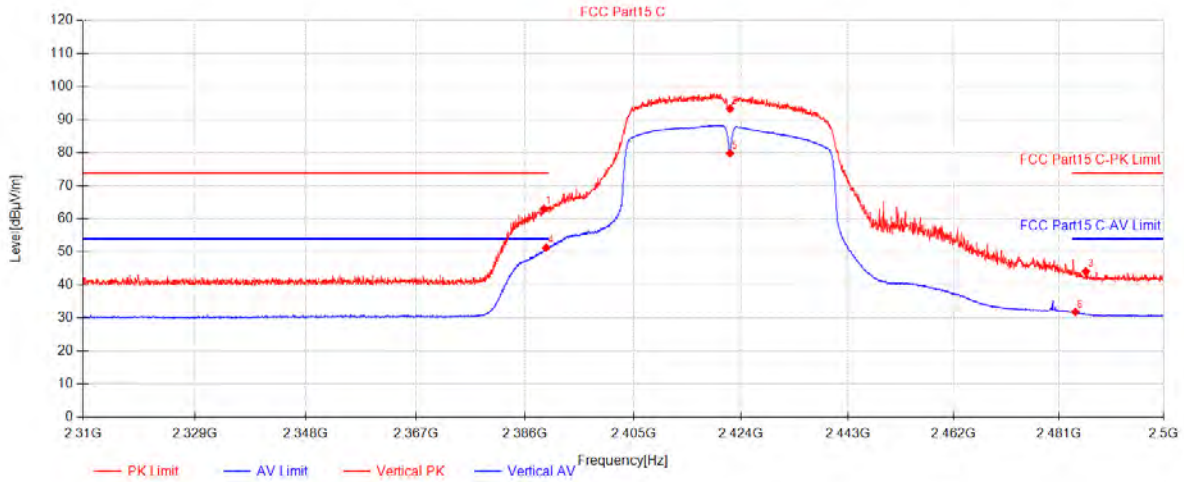
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802.11n40\_Channel 03



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.2567	59.91	3.07	62.98	74.00	11.02	280	11	Vertical
2	2422	90.13	3.21	93.34	-	-	280	11	Vertical
3	2485.9	40.45	3.61	44.06	74.00	29.94	280	11	Vertical
4	2389.6467	48.21	3.07	51.28	54.00	2.72	280	11	Vertical
5	2422	76.62	3.21	79.83	-	-	280	11	Vertical
6	2483.98	28.24	3.60	31.84	54.00	22.16	280	11	Vertical

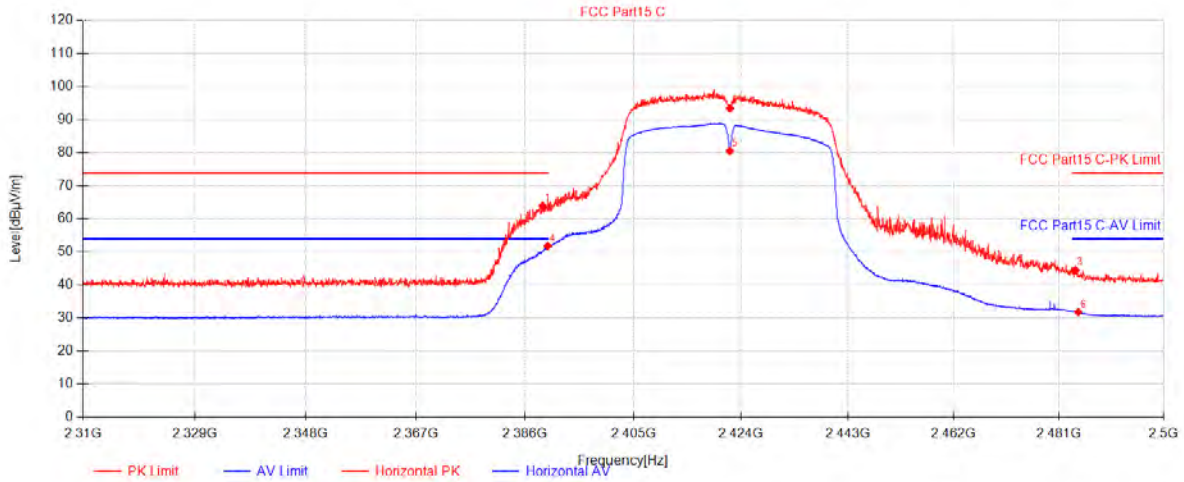


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802.11n40\_Channel 03



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.04	60.86	3.07	63.93	74.00	10.07	277	132	Horizontal
2	2422	90.26	3.21	93.47	-	-	277	132	Horizontal
3	2483.98	40.85	3.60	44.45	74.00	29.55	277	132	Horizontal
4	2389.9067	48.79	3.07	51.86	54.00	2.14	277	132	Horizontal
5	2422	77.30	3.21	80.51	-	-	277	132	Horizontal
6	2484.52	28.19	3.60	31.79	54.00	22.21	277	132	Horizontal



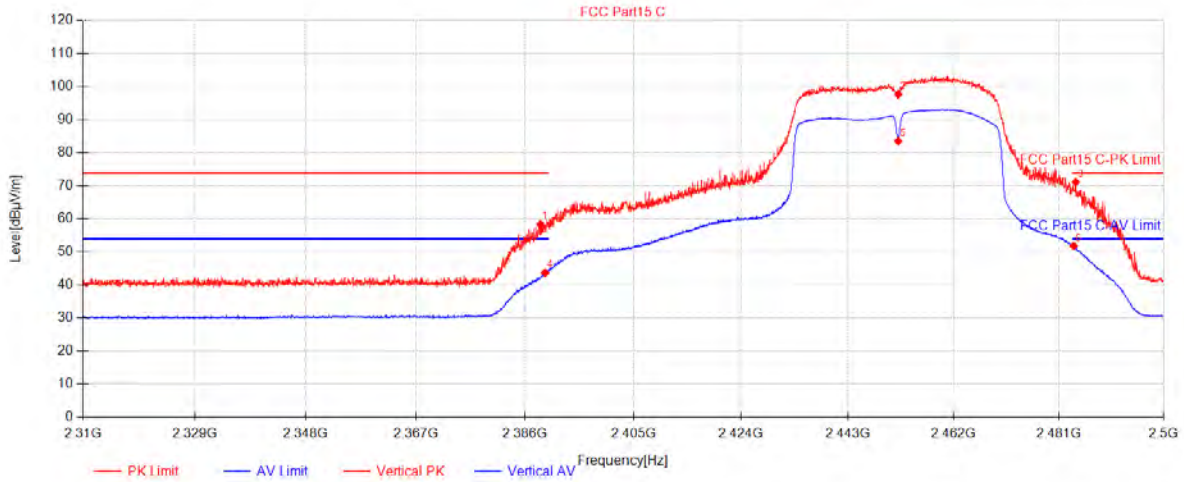
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802.11n40\_Channel 09



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.65	55.29	3.07	58.36	74.00	15.64	126	85	Vertical
2	2452	94.36	3.40	97.76	-	-	126	85	Vertical
3	2484.04	67.56	3.60	71.16	74.00	2.84	126	85	Vertical
4	2389.4733	40.60	3.07	43.67	54.00	10.33	126	85	Vertical
5	2452	80.09	3.40	83.49	-	-	126	85	Vertical
6	2483.68	48.27	3.60	51.87	54.00	2.13	126	85	Vertical

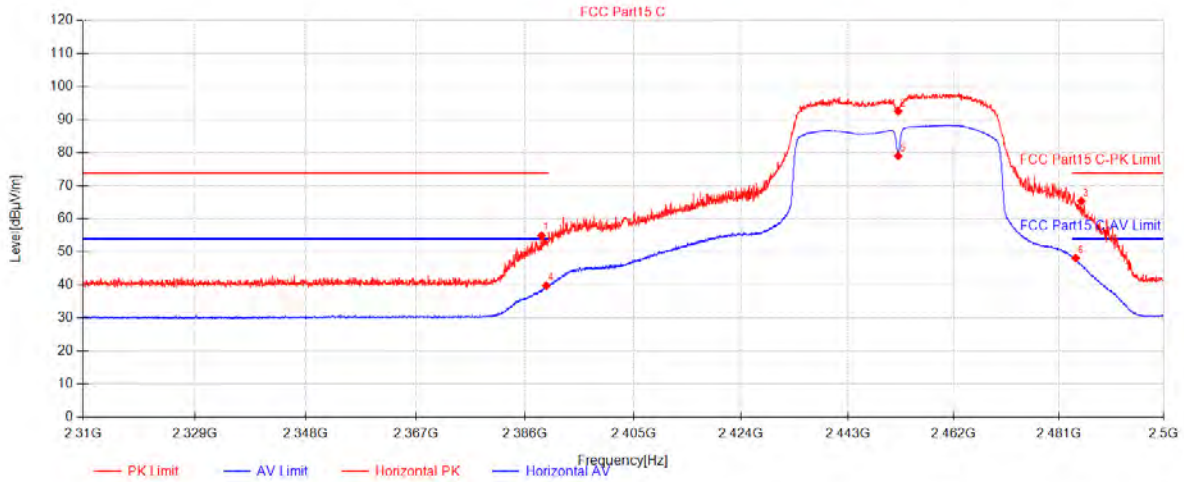


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802.11n40\_Channel 09



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.8233	51.90	3.07	54.97	74.00	19.03	163	132	Horizontal
2	2452	89.21	3.40	92.61	-	-	163	132	Horizontal
3	2485.06	61.71	3.61	65.32	74.00	8.68	163	132	Horizontal
4	2389.69	36.75	3.07	39.82	54.00	14.18	163	132	Horizontal
5	2452	75.66	3.40	79.06	-	-	163	132	Horizontal
6	2484.04	44.52	3.60	48.12	54.00	5.88	163	132	Horizontal

The End



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