

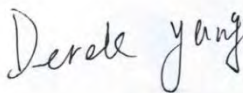
## FCC TEST REPORT

**Application No.:** AR/2020/C0004  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2010J19SL  
**Trade Mark:** Redmi  
**FCC ID:** 2AFZZJ19SL  
**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR Part 15, Subpart C  
**Date of Receipt:** 2020/12/11  
**Date of Test:** 2020/12/11 to 2020/12/31  
**Date of Issue:** 2020/12/31

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang  
Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-31		Original

Authorized for issue by:			
Tested By		 <hr/> (Mike Hu) /Project Engineer	
Checked By		 <hr/> (David Chen) /Reviewer	



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## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
<b>AC Power Line Conducted Emission</b>	15.207	ANSI C63.10 2013	Clause 4.2	PASS
<b>Duty Cycle</b>	--	--	Clause 4.3	PASS
<b>Conducted Output Power</b>	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
<b>DTS (6 dB) Bandwidth &amp; 99% Occupied Bandwidth</b>	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
<b>Power Spectral Density</b>	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
<b>Band-edge for RF Conducted Emissions</b>	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
<b>RF Conducted Spurious Emissions</b>	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
<b>Radiated Spurious Emissions</b>	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	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:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057



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### 3.3 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2010J19SL
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI12
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: -fc = "Operating Frequency" in MHz, -N = "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:	PIFA Antenna
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 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	1.0dBi
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> Battery <input type="checkbox"/> PoE.; <input type="checkbox"/> Other:

#### 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				



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**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 802.11B/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

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

### 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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.0dBi.</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>		



<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 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

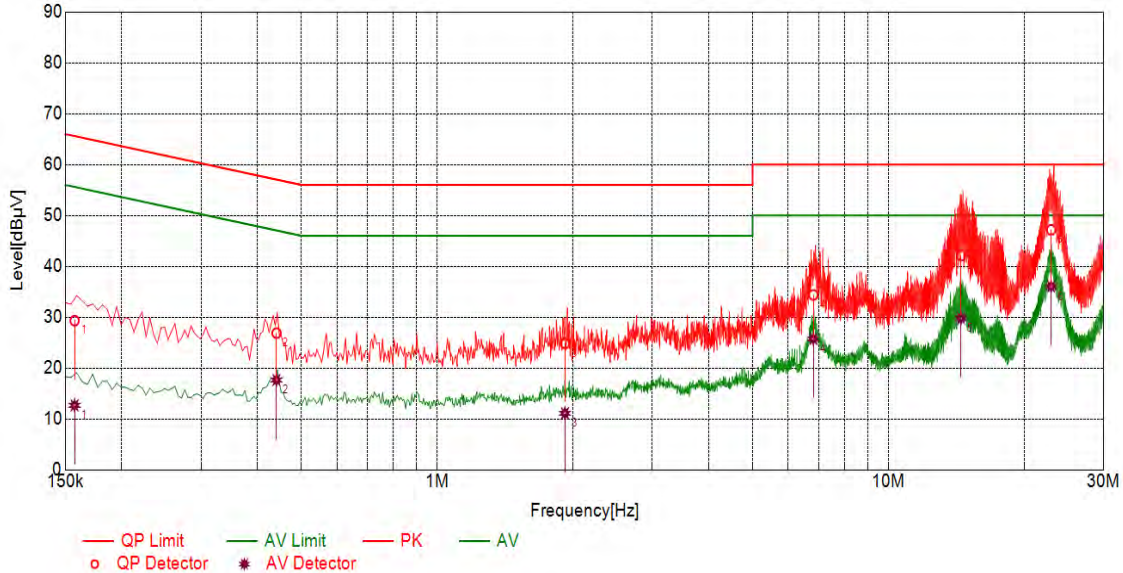


**Measurement Data**

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:**



**Test Graph**

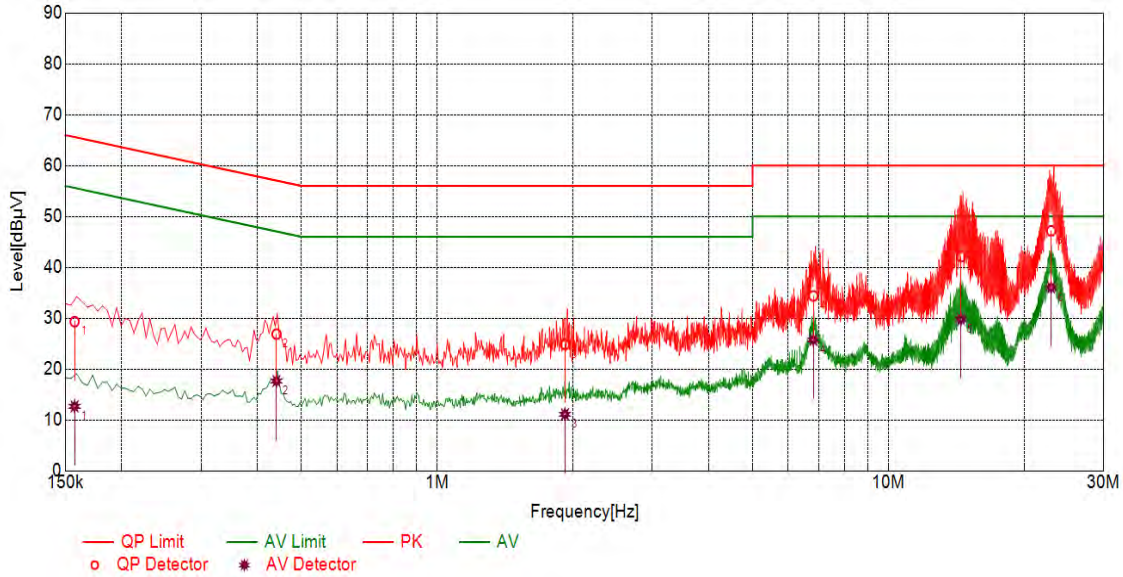
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1573	10.10	29.33	65.60	36.27	12.67	55.60	42.93
2	0.4406	10.10	26.87	57.05	30.18	17.66	47.05	29.39
3	1.9202	10.10	24.83	56.00	31.17	11.11	46.00	34.89
4	6.8196	10.10	34.38	60.00	25.62	25.73	50.00	24.27
5	14.4896	10.11	42.10	60.00	17.90	29.80	50.00	20.20
6	22.9425	10.11	47.19	60.00	12.81	36.02	50.00	13.98



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Neutral Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1573	10.10	29.33	65.60	36.27	12.67	55.60	42.93
2	0.4406	10.10	26.87	57.05	30.18	17.66	47.05	29.39
3	1.9202	10.10	24.83	56.00	31.17	11.11	46.00	34.89
4	6.8196	10.10	34.38	60.00	25.62	25.73	50.00	24.27
5	14.4896	10.11	42.10	60.00	17.90	29.80	50.00	20.20
6	22.9425	10.11	47.19	60.00	12.81	36.02	50.00	13.98

Remarks:

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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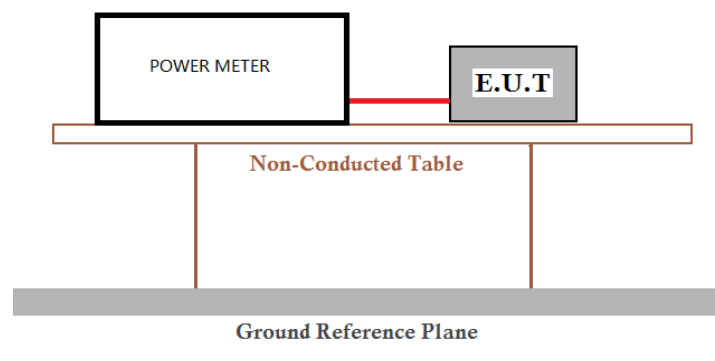
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

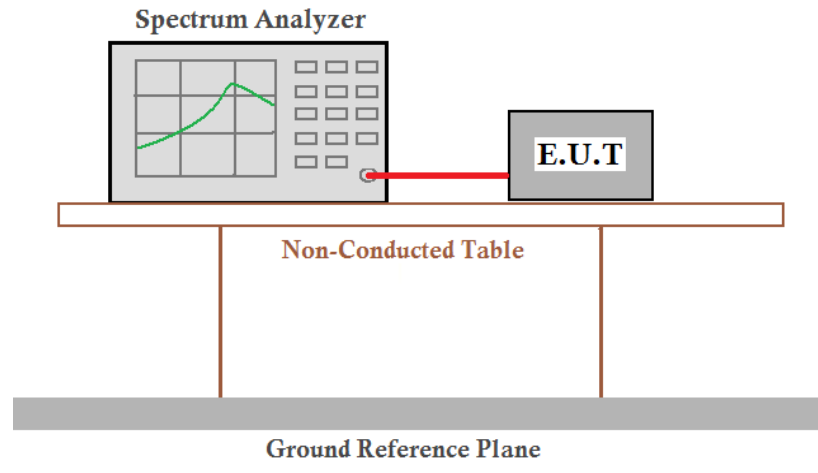
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate 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: **Appendix**



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

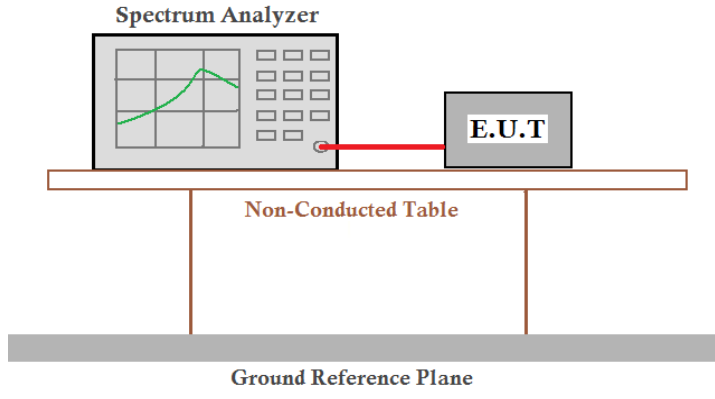
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps 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: **Appendix**



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### 4.6 Power Spectral Density

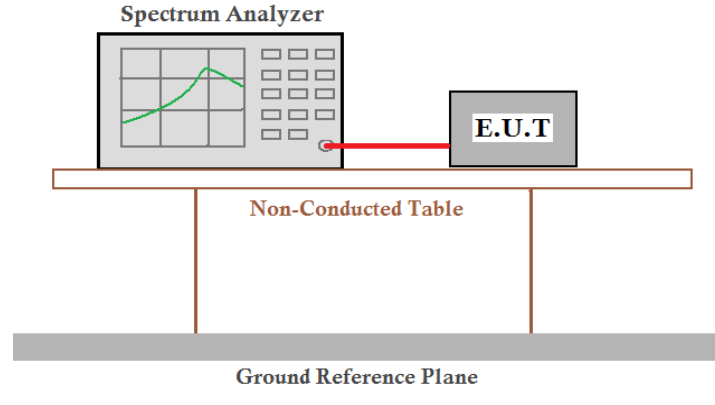
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is 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: **Appendix**



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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 5.10 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: **Appendix**



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### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 5.10 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: **Appendix**



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (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	100kHz	30kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz(Duty Cycle≥0.98) ≥1/T(Duty Cycle <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.					



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<p><b>Test Setup:</b></p>		
	<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
	<p>Figure 3. Above 1 GHz</p>	
<p><b>Test Procedure:</b></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>Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>For average measurement: use duty cycle correction factor method per 15.35(c).</li> </ol> </li> </ol>	



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	<p>Duty cycle = On time/100 milliseconds  On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math>  Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.  Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. 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 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>i. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>j. 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>k. Repeat above procedures until all frequencies measured was complete.</p>
<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  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);  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>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

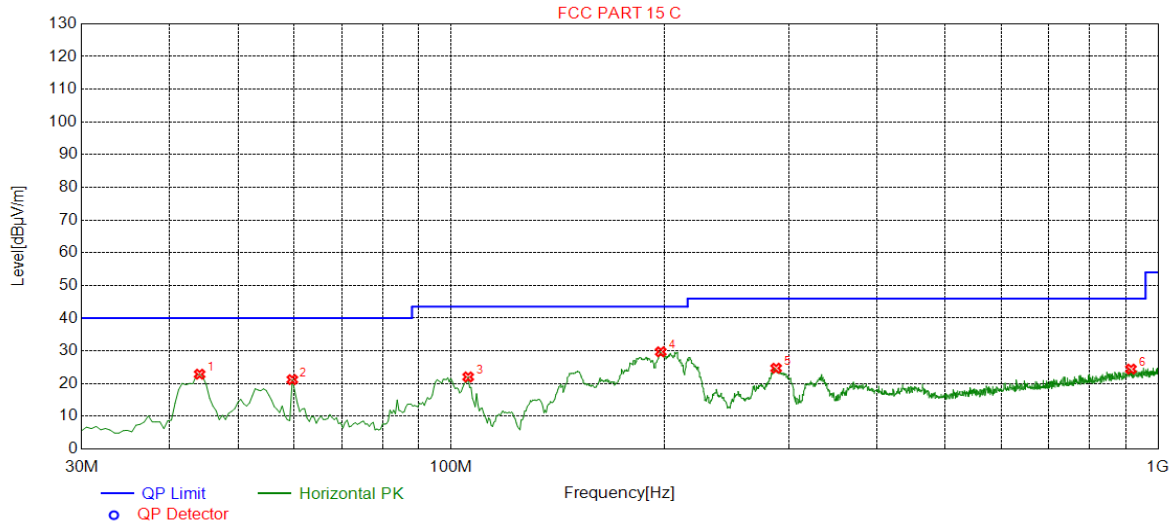


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### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.0720	22.88	40.00	17.12	150	16	Horizontal
2	59.5998	21.22	40.00	18.78	150	274	Horizontal
3	105.6978	22.04	43.50	21.46	150	233	Horizontal
4	197.8939	29.72	43.50	13.78	150	334	Horizontal
5	288.1491	24.71	46.00	21.29	150	32	Horizontal
6	915.5678	24.45	46.00	21.55	150	340	Horizontal

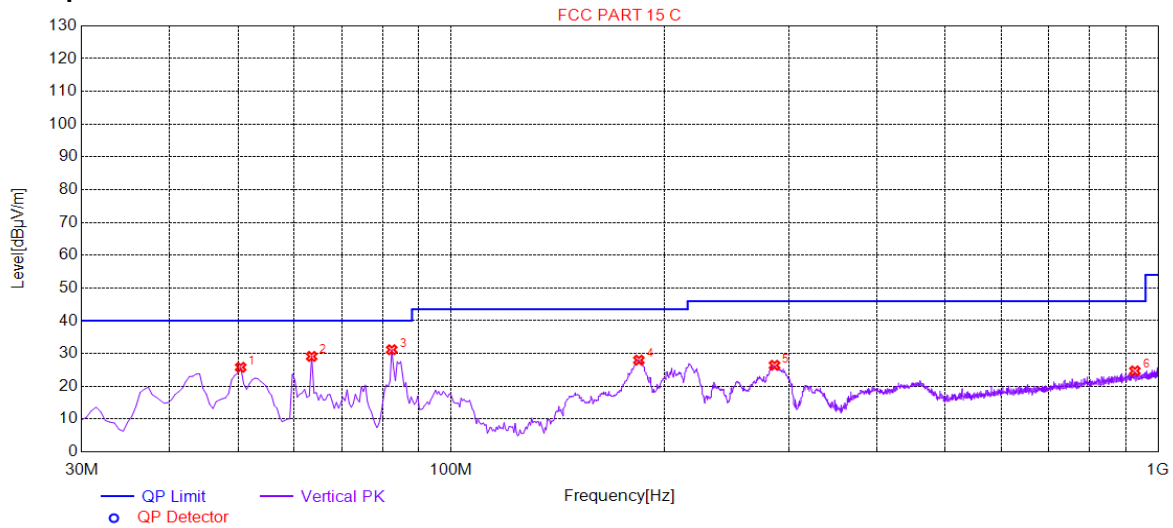
#### Final Data List



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### Test Graph



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.3802	25.81	40.00	14.19	150	177	Vertical
2	63.4817	29.13	40.00	10.87	150	344	Vertical
3	82.4062	31.18	40.00	8.82	150	284	Vertical
4	184.3072	28.00	43.50	15.50	150	7	Vertical
5	286.6933	26.42	46.00	19.58	150	335	Vertical
6	927.2136	24.71	46.00	21.29	150	77	Vertical

### Final Data List



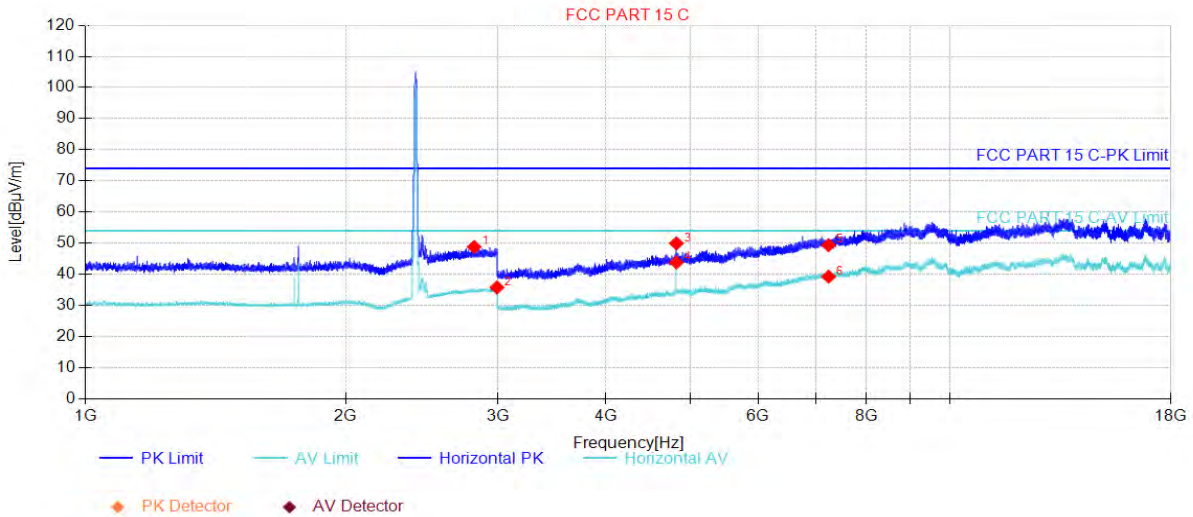
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**4.9.2 Transmitter emission above 1GHz**

**4.9.2.1 802.11B\_Channel 1**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2815.781	48.76	6.76	74.00	25.24	150	Horizontal
2	2991.999	35.76	7.37	54.00	18.24	150	Horizontal
3	4824.000	49.92	-10.56	74.00	24.08	150	Horizontal
4	4824.000	43.77	-10.56	54.00	10.23	150	Horizontal
5	7236.000	49.35	-2.59	74.00	24.65	150	Horizontal
6	7236.000	39.23	-2.59	54.00	14.77	150	Horizontal

**Final Data List**

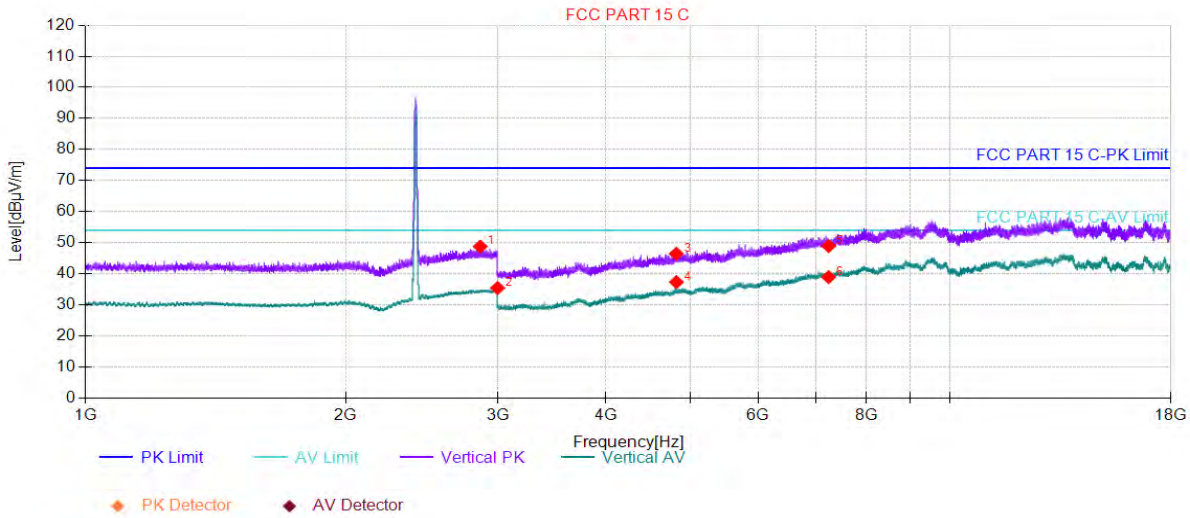


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4.9.2.2 802.11B\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2860.786	48.74	6.86	74.00	25.26	150	Vertical
2	2996.799	35.38	7.40	54.00	18.62	150	Vertical
3	4824.000	46.42	-10.56	74.00	27.58	150	Vertical
4	4824.000	37.28	-10.56	54.00	16.72	150	Vertical
5	7236.000	48.92	-2.59	74.00	25.08	150	Vertical
6	7236.000	38.91	-2.59	54.00	15.09	150	Vertical

Final Data List

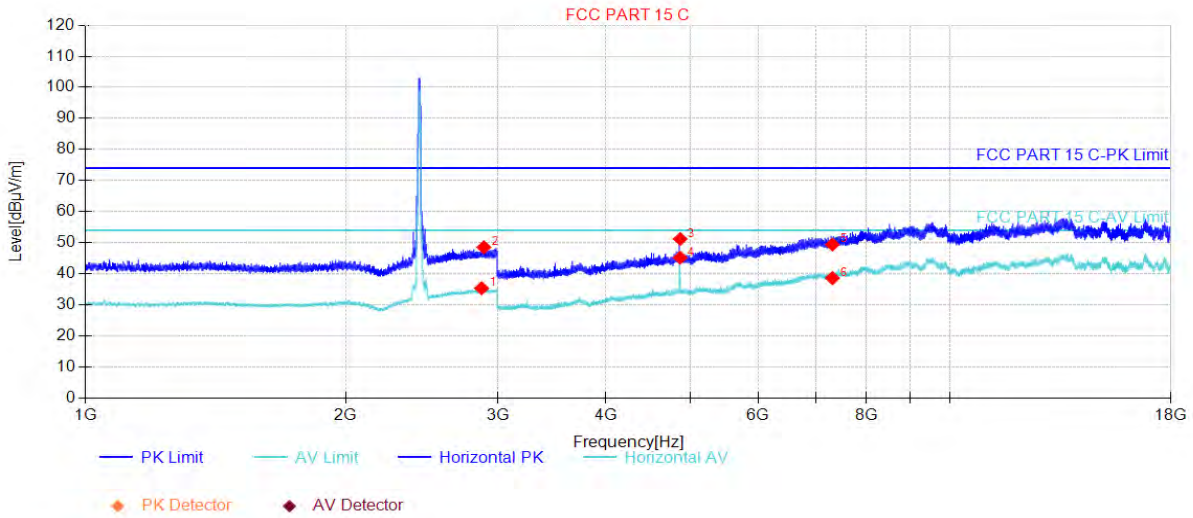


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4.9.2.3 802.11B\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2872.187	35.31	6.89	54.00	18.69	150	Horizontal
2	2889.388	48.50	6.93	74.00	25.50	150	Horizontal
3	4874.000	51.17	-10.40	74.00	22.83	150	Horizontal
4	4874.000	45.15	-10.40	54.00	8.85	150	Horizontal
5	7311.000	49.37	-2.58	74.00	24.63	150	Horizontal
6	7311.000	38.57	-2.58	54.00	15.43	150	Horizontal

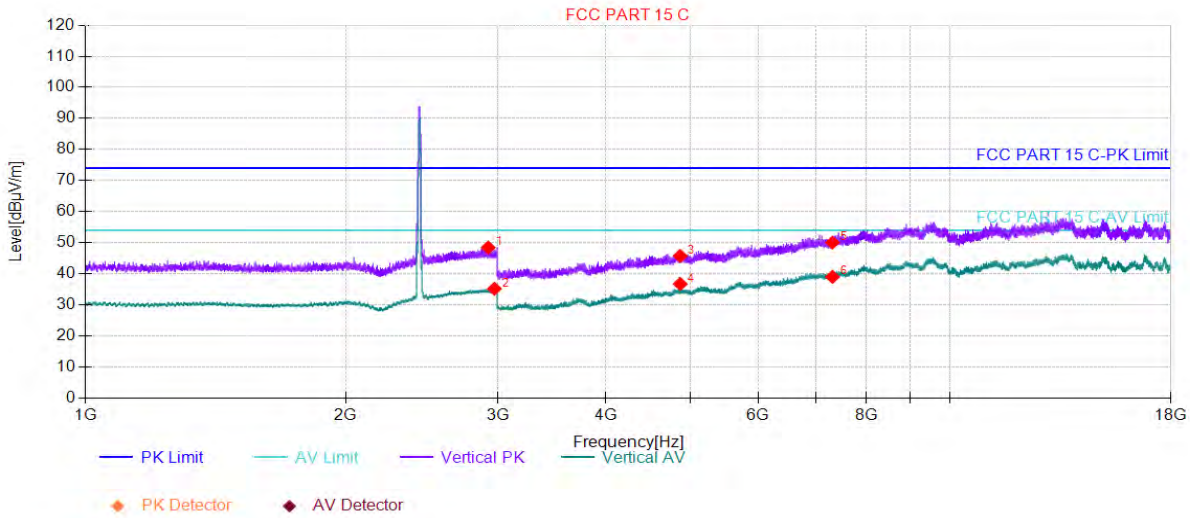
Final Data List



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4.9.2.4 802.11B\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2922.992	48.39	7.06	74.00	25.61	150	Vertical
2	2972.197	35.14	7.28	54.00	18.86	150	Vertical
3	4874.000	45.71	-10.40	74.00	28.29	150	Vertical
4	4874.000	36.68	-10.40	54.00	17.32	150	Vertical
5	7311.000	50.04	-2.58	74.00	23.96	150	Vertical
6	7311.000	38.99	-2.58	54.00	15.01	150	Vertical

Final Data List

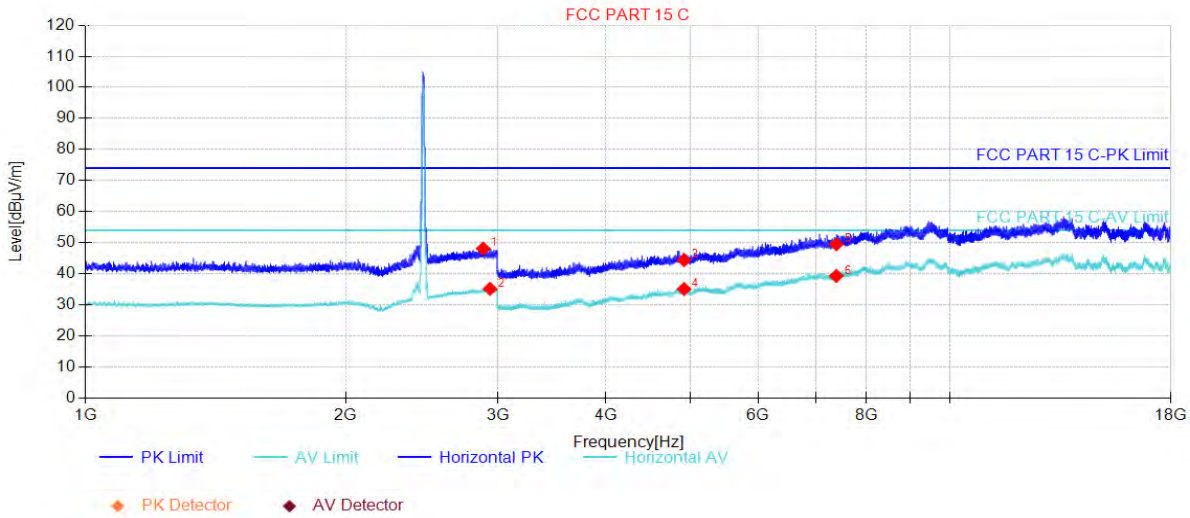


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4.9.2.5 802.11B\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2883.988	48.07	6.91	74.00	25.93	150	Horizontal
2	2936.993	35.11	7.12	54.00	18.89	150	Horizontal
3	4924.000	44.36	-10.22	74.00	29.64	150	Horizontal
4	4924.000	35.06	-10.22	54.00	18.94	150	Horizontal
5	7386.000	49.46	-2.06	74.00	24.54	150	Horizontal
6	7386.000	39.26	-2.06	54.00	14.74	150	Horizontal

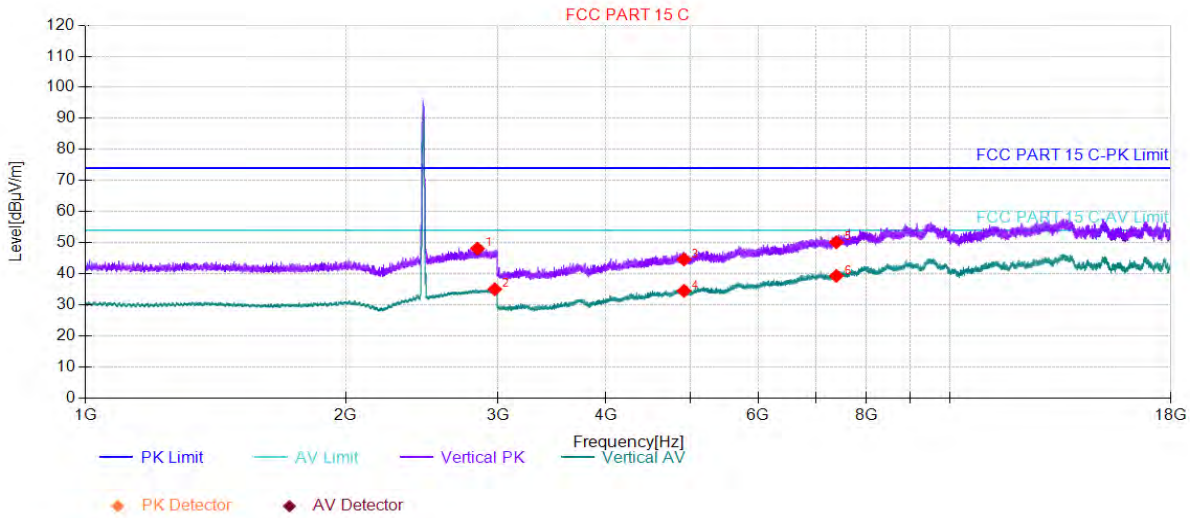
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4.9.2.6 802.11B\_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2840.584	48.09	6.82	74.00	25.91	150	Vertical
2	2974.397	34.98	7.29	54.00	19.02	150	Vertical
3	4924.000	44.59	-10.22	74.00	29.41	150	Vertical
4	4924.000	34.47	-10.22	54.00	19.53	150	Vertical
5	7386.000	50.10	-2.06	74.00	23.90	150	Vertical
6	7386.000	39.28	-2.06	54.00	14.72	150	Vertical

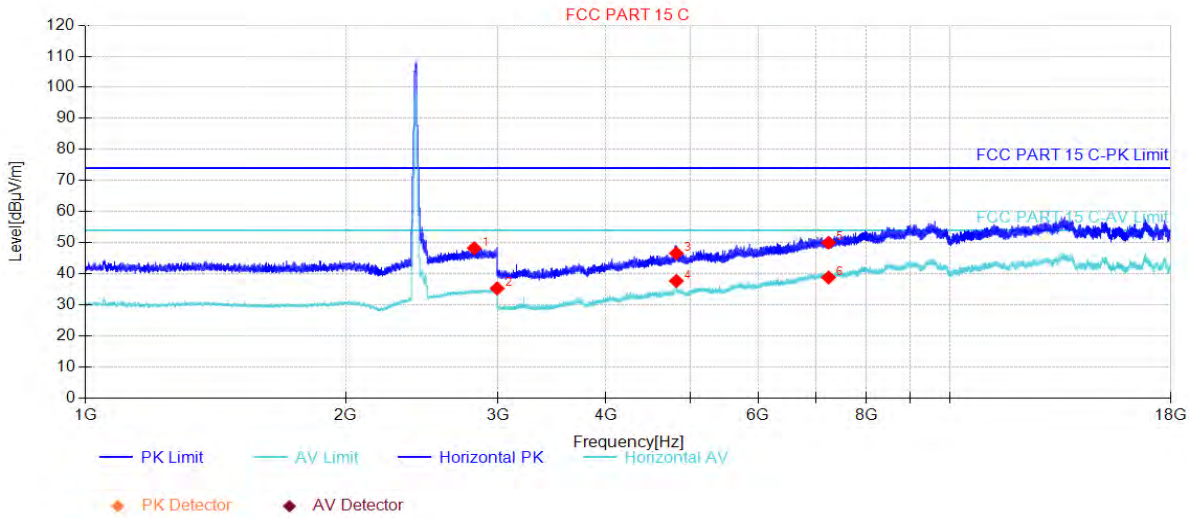
Final Data List



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4.9.2.7 802.11G\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2816.381	48.21	6.77	74.00	25.79	150	Horizontal
2	2993.599	35.26	7.38	54.00	18.74	150	Horizontal
3	4824.000	46.54	-10.56	74.00	27.46	150	Horizontal
4	4824.000	37.64	-10.56	54.00	16.36	150	Horizontal
5	7236.000	49.97	-2.59	74.00	24.03	150	Horizontal
6	7236.000	38.78	-2.59	54.00	15.22	150	Horizontal

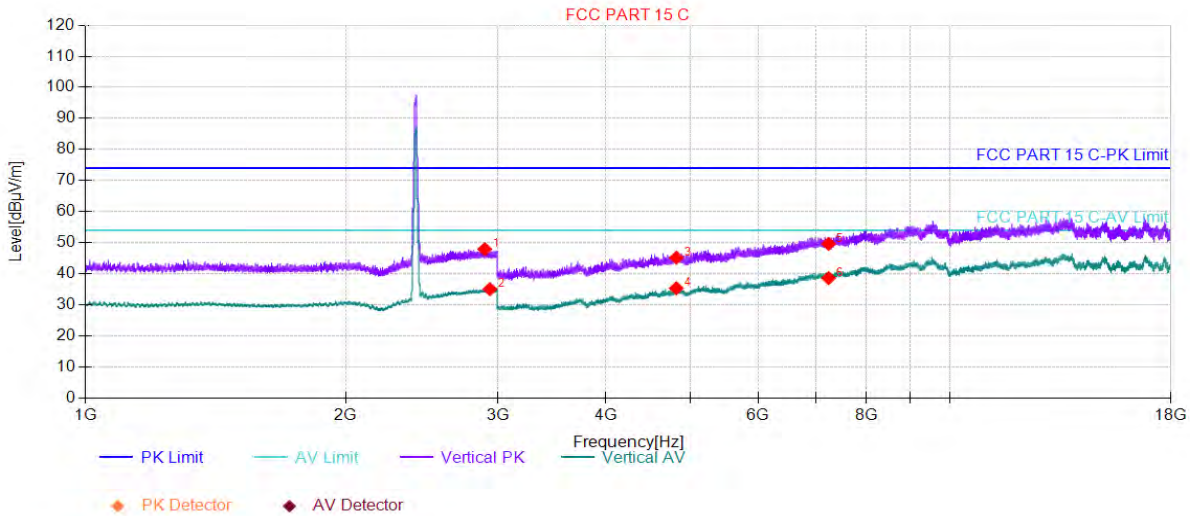
Final Data List

(This section is intentionally left blank in the provided image.)



4.9.2.8 802.11G\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2895.589	47.89	6.94	74.00	26.11	150	Vertical
2	2936.393	35.01	7.12	54.00	18.99	150	Vertical
3	4824.000	45.14	-10.56	74.00	28.86	150	Vertical
4	4824.000	35.30	-10.56	54.00	18.70	150	Vertical
5	7236.000	49.62	-2.59	74.00	24.38	150	Vertical
6	7236.000	38.58	-2.59	54.00	15.42	150	Vertical

Final Data List

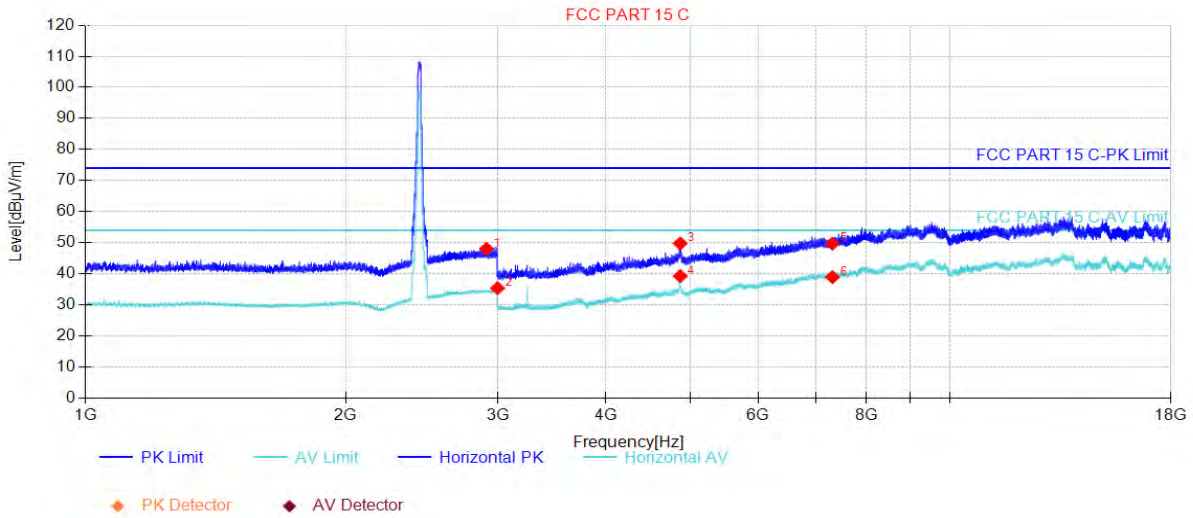


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4.9.2.9 802.11G\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2908.990	48.00	6.99	74.00	26.00	150	Horizontal
2	2996.399	35.35	7.39	54.00	18.65	150	Horizontal
3	4874.000	49.76	-10.40	74.00	24.24	150	Horizontal
4	4874.000	39.21	-10.40	54.00	14.79	150	Horizontal
5	7311.000	49.66	-2.58	74.00	24.34	150	Horizontal
6	7311.000	38.89	-2.58	54.00	15.11	150	Horizontal

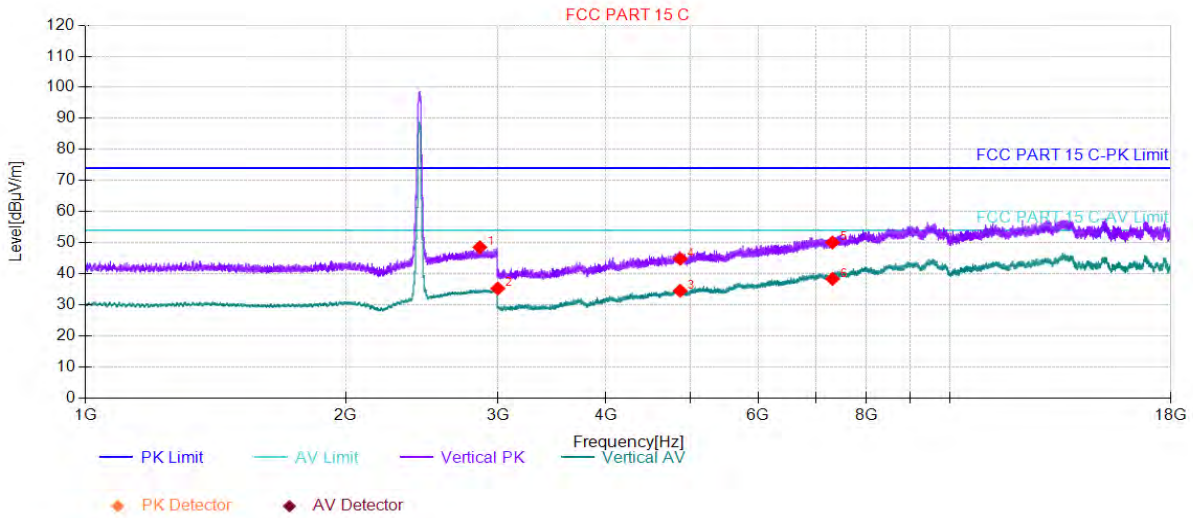
Final Data List



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4.9.2.10 802.11G\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2858.985	48.51	6.86	74.00	25.49	150	Vertical
2	2998.399	35.25	7.40	54.00	18.75	150	Vertical
3	4874.000	34.49	-10.40	54.00	19.51	150	Vertical
4	4874.000	44.79	-10.40	74.00	29.21	150	Vertical
5	7311.000	50.05	-2.58	74.00	23.95	150	Vertical
6	7311.000	38.32	-2.58	54.00	15.68	150	Vertical

Final Data List

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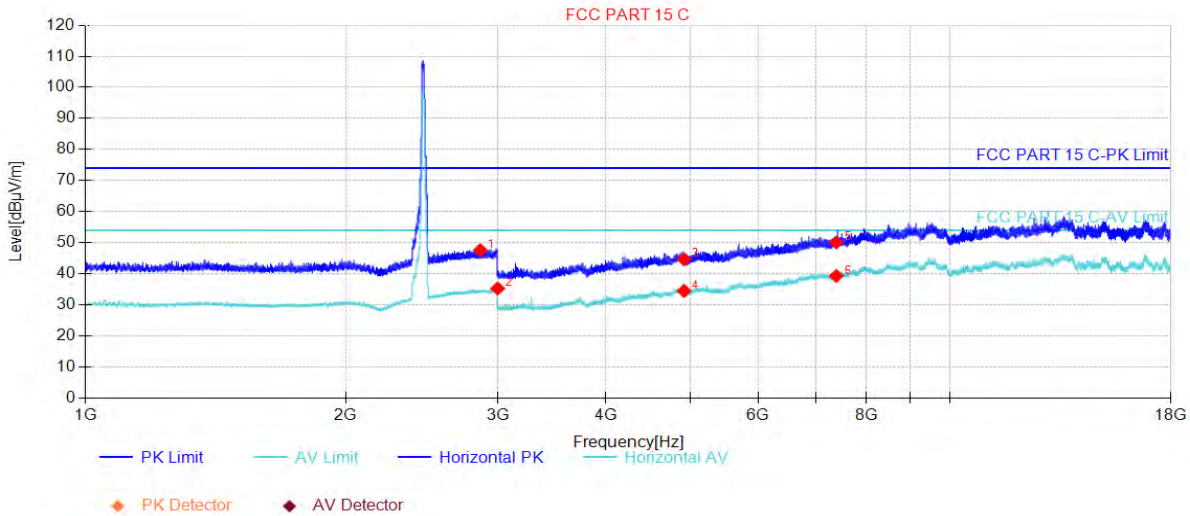


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4.9.2.11 802.11G\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2861.986	47.55	6.87	74.00	26.45	150	Horizontal
2	2997.199	35.26	7.40	54.00	18.74	150	Horizontal
3	4924.000	44.64	-10.22	74.00	29.36	150	Horizontal
4	4924.000	34.46	-10.22	54.00	19.54	150	Horizontal
5	7386.000	50.07	-2.06	74.00	23.93	150	Horizontal
6	7386.000	39.28	-2.06	54.00	14.72	150	Horizontal

Final Data List

(This area is intentionally left blank for the Final Data List.)



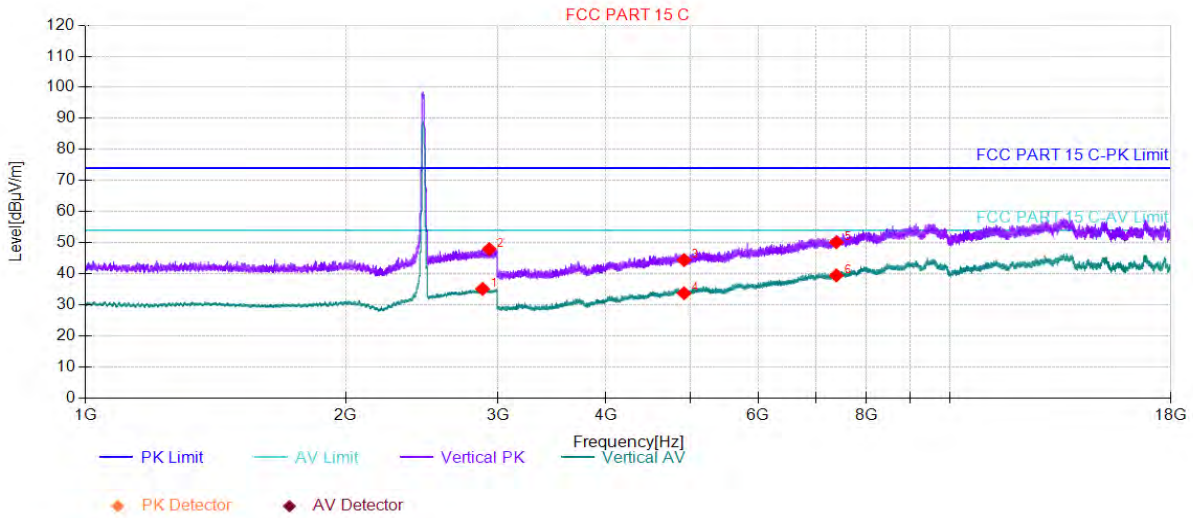
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4.9.2.12 802.11G\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2879.387	35.09	6.90	54.00	18.91	150	Vertical
2	2931.193	47.90	7.09	74.00	26.10	150	Vertical
3	4924.000	44.37	-10.22	74.00	29.63	150	Vertical
4	4924.000	33.70	-10.22	54.00	20.30	150	Vertical
5	7386.000	50.13	-2.06	74.00	23.87	150	Vertical
6	7386.000	39.44	-2.06	54.00	14.56	150	Vertical

Final Data List

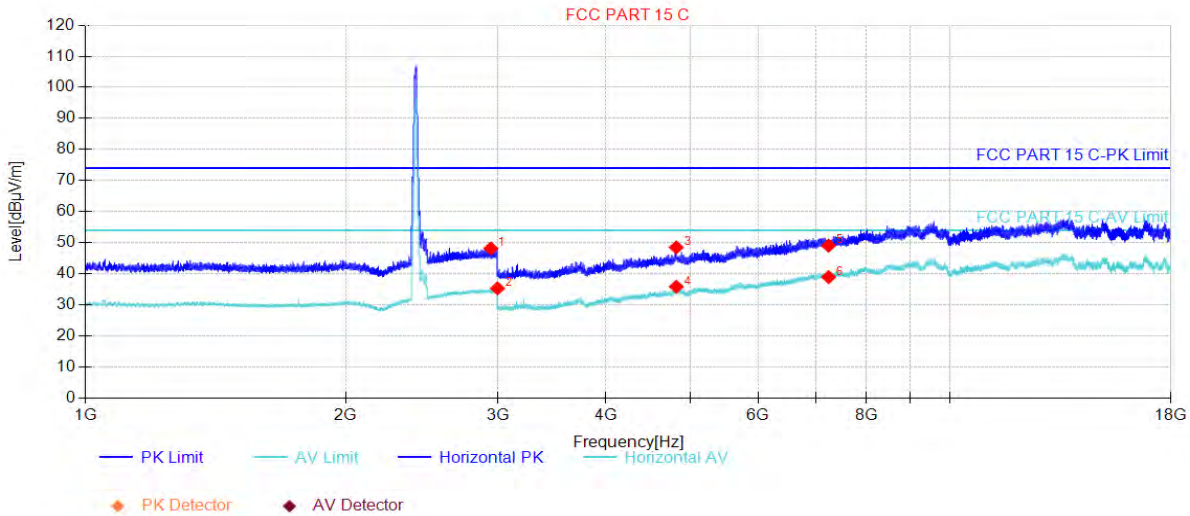


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4.9.2.13 802.11N20\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2943.594	48.12	7.15	74.00	25.88	150	Horizontal
2	2996.199	35.27	7.39	54.00	18.73	150	Horizontal
3	4824.000	48.46	-10.56	74.00	25.54	150	Horizontal
4	4824.000	35.78	-10.56	54.00	18.22	150	Horizontal
5	7236.000	49.04	-2.59	74.00	24.96	150	Horizontal
6	7236.000	38.91	-2.59	54.00	15.09	150	Horizontal

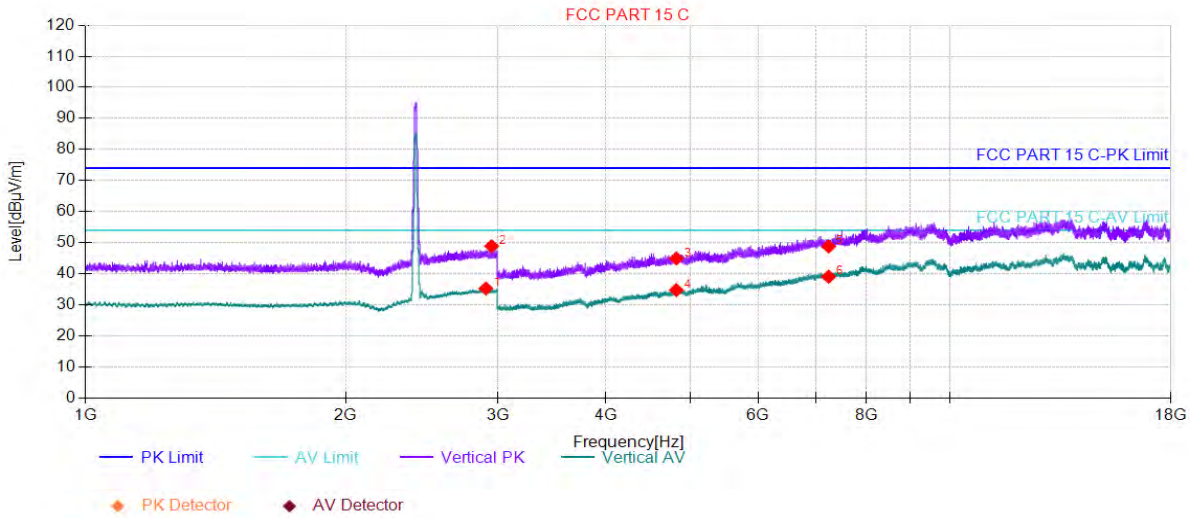
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### 4.9.2.14 802.11N20\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2905.390	35.23	6.97	54.00	18.77	150	Vertical
2	2949.595	48.86	7.18	74.00	25.14	150	Vertical
3	4824.000	44.92	-10.56	74.00	29.08	150	Vertical
4	4824.000	34.72	-10.56	54.00	19.28	150	Vertical
5	7236.000	48.75	-2.59	74.00	25.25	150	Vertical
6	7236.000	39.04	-2.59	54.00	14.96	150	Vertical

#### Final Data List

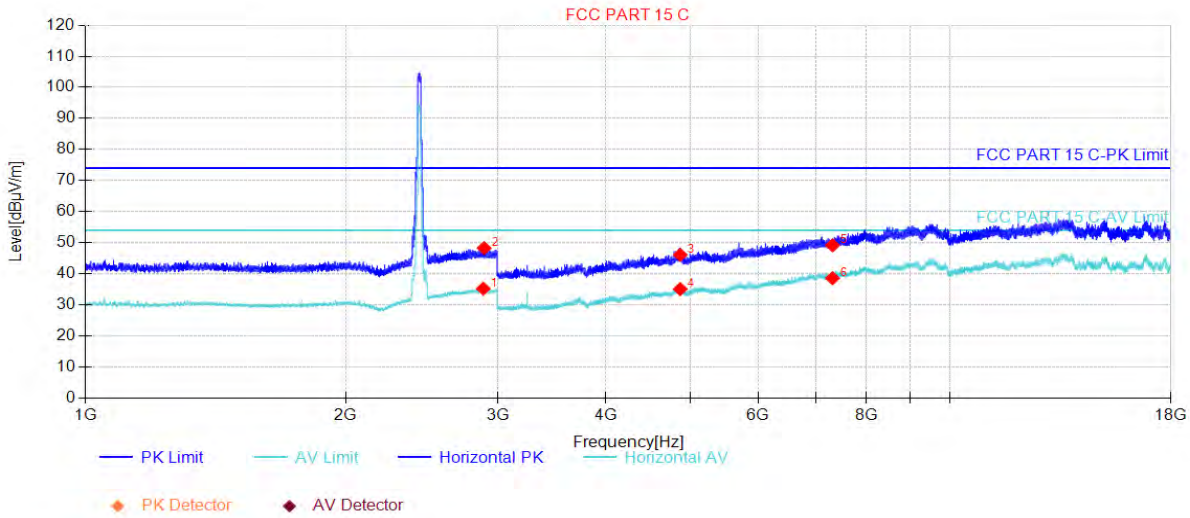
Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2905.390	35.23	6.97	54.00	18.77	150	Vertical
2	2949.595	48.86	7.18	74.00	25.14	150	Vertical
3	4824.000	44.92	-10.56	74.00	29.08	150	Vertical
4	4824.000	34.72	-10.56	54.00	19.28	150	Vertical
5	7236.000	48.75	-2.59	74.00	25.25	150	Vertical
6	7236.000	39.04	-2.59	54.00	14.96	150	Vertical



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4.9.2.15 802.11N20\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2884.988	35.17	6.92	54.00	18.83	150	Horizontal
2	2891.389	48.23	6.93	74.00	25.77	150	Horizontal
3	4874.000	46.07	-10.40	74.00	27.93	150	Horizontal
4	4874.000	35.02	-10.40	54.00	18.98	150	Horizontal
5	7311.000	49.13	-2.58	74.00	24.87	150	Horizontal
6	7311.000	38.55	-2.58	54.00	15.45	150	Horizontal

Final Data List

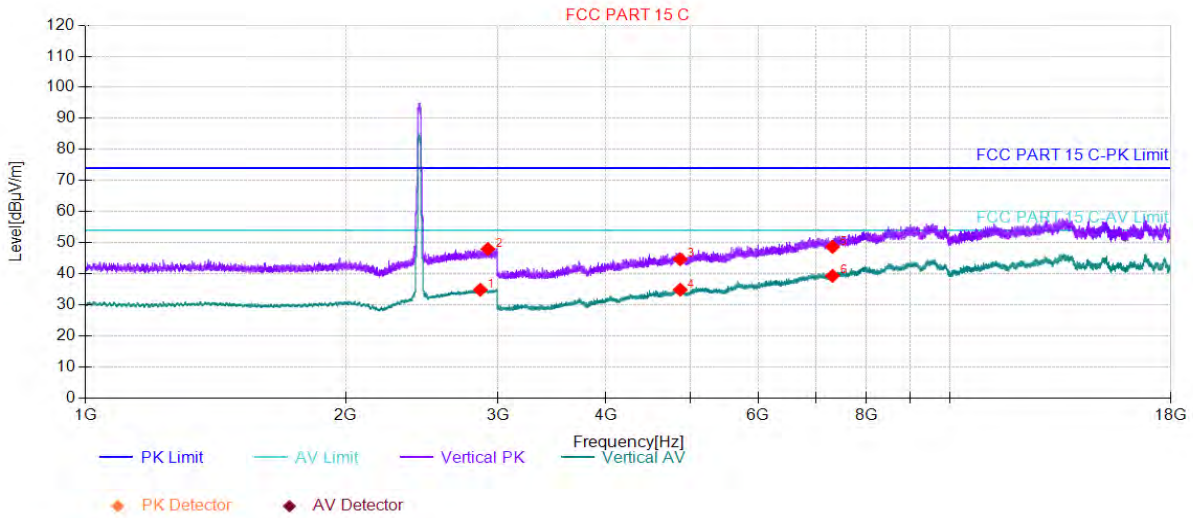


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### 4.9.2.16 802.11N20\_Channel 6

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2862.186	34.81	6.87	54.00	19.19	150	Vertical
2	2920.592	47.92	7.04	74.00	26.08	150	Vertical
3	4874.000	44.66	-10.40	74.00	29.34	150	Vertical
4	4874.000	34.84	-10.40	54.00	19.16	150	Vertical
5	7311.000	48.63	-2.58	74.00	25.37	150	Vertical
6	7311.000	39.30	-2.58	54.00	14.70	150	Vertical

#### Final Data List



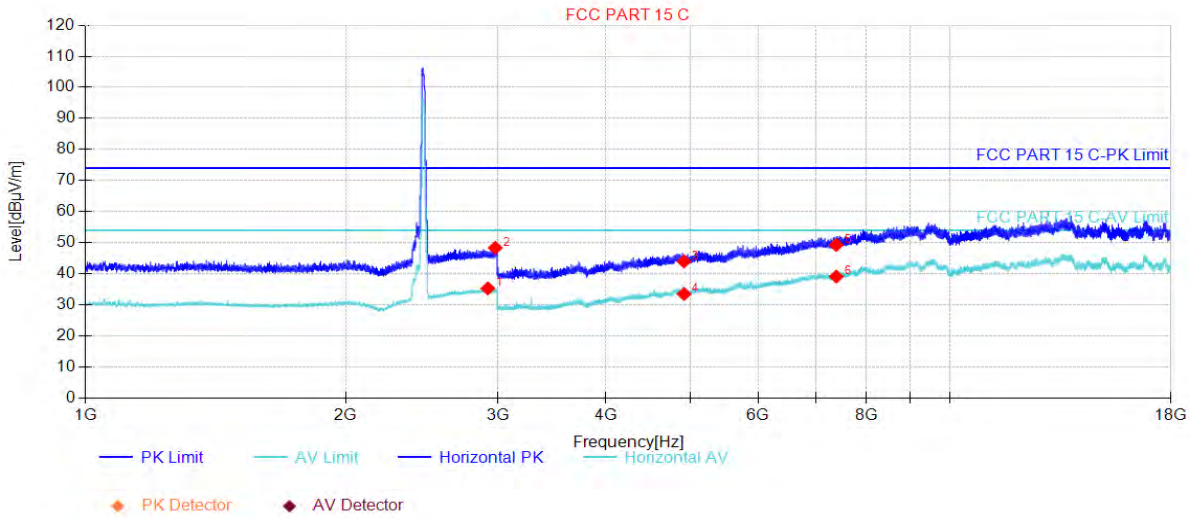
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



4.9.2.17 802.11N20\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2919.792	35.26	7.04	54.00	18.74	150	Horizontal
2	2978.197	48.33	7.31	74.00	25.67	150	Horizontal
3	4924.000	43.95	-10.22	74.00	30.05	150	Horizontal
4	4924.000	33.47	-10.22	54.00	20.53	150	Horizontal
5	7386.000	49.25	-2.06	74.00	24.75	150	Horizontal
6	7386.000	39.09	-2.06	54.00	14.91	150	Horizontal

Final Data List

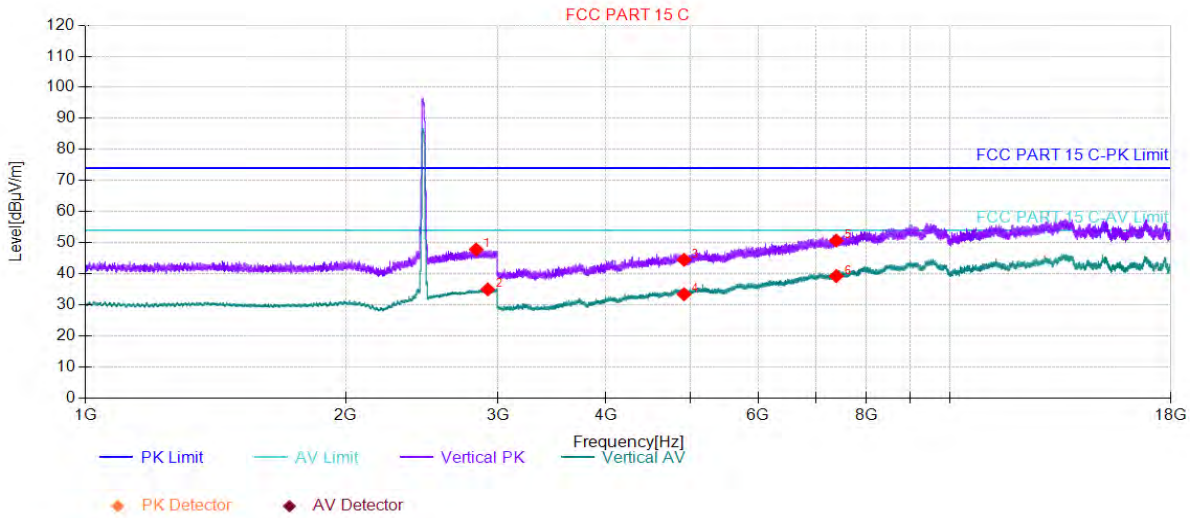
(This area is intentionally left blank for the final data list.)



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4.9.2.18 802.11N20\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2830.983	47.80	6.80	74.00	26.20	150	Vertical
2	2919.592	34.93	7.04	54.00	19.07	150	Vertical
3	4924.000	44.49	-10.22	74.00	29.51	150	Vertical
4	4924.000	33.40	-10.22	54.00	20.60	150	Vertical
5	7386.000	50.67	-2.06	74.00	23.33	150	Vertical
6	7386.000	39.21	-2.06	54.00	14.79	150	Vertical

Final Data List

(This section is intentionally left blank in the provided image.)

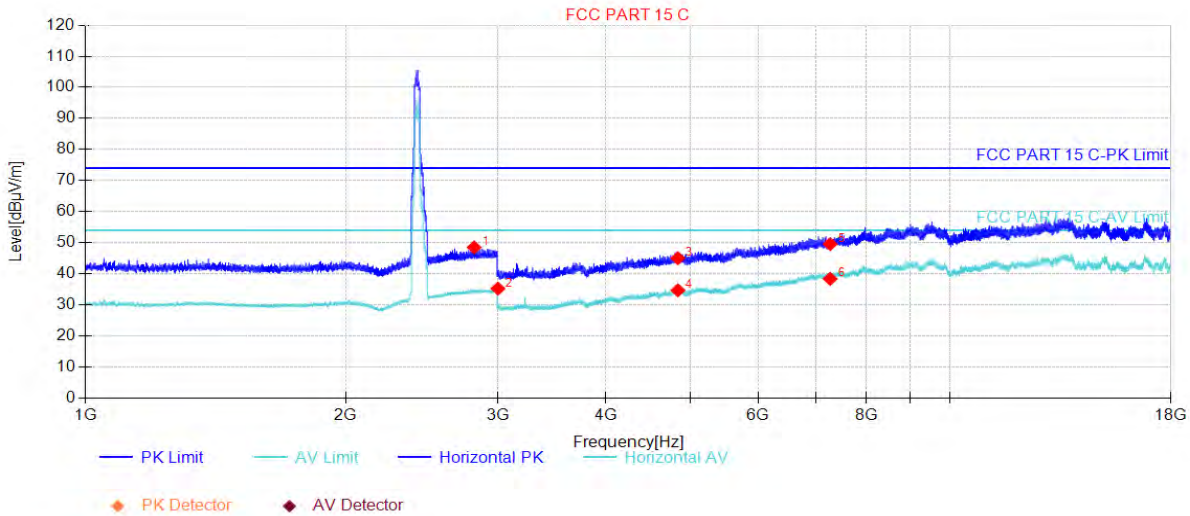


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4.9.2.19 802.11N40\_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2815.581	48.47	6.76	74.00	25.53	150	Horizontal
2	2999.800	35.21	7.41	54.00	18.79	150	Horizontal
3	4844.000	44.96	-10.50	74.00	29.04	150	Horizontal
4	4844.000	34.64	-10.50	54.00	19.36	150	Horizontal
5	7266.000	49.55	-2.62	74.00	24.45	150	Horizontal
6	7266.000	38.36	-2.62	54.00	15.64	150	Horizontal

Final Data List

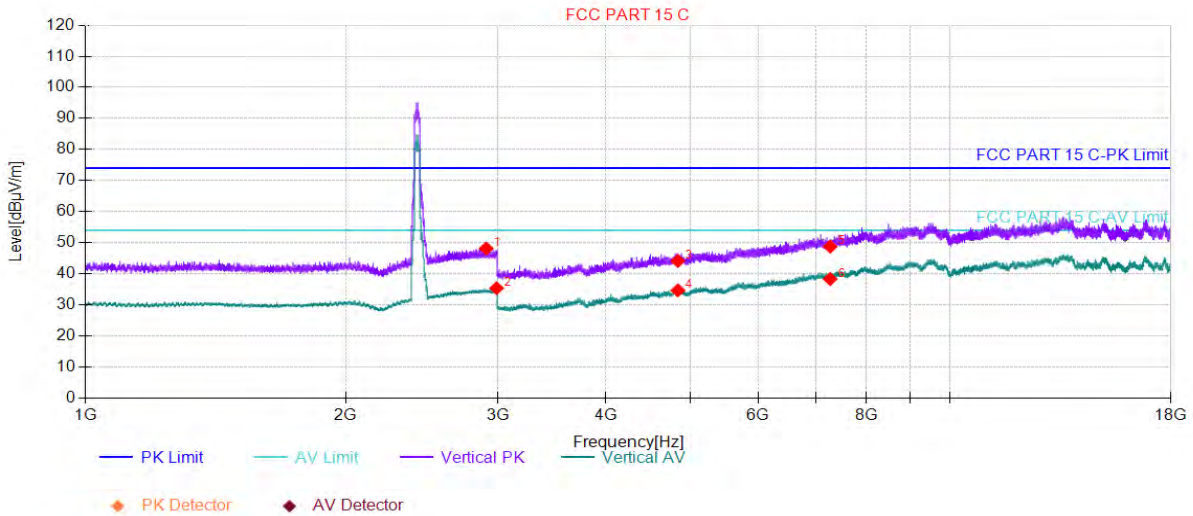


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### 4.9.2.20 802.11N40\_Channel 3

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2907.190	48.12	6.98	74.00	25.88	150	Vertical
2	2988.398	35.32	7.36	54.00	18.68	150	Vertical
3	4844.000	44.10	-10.50	74.00	29.90	150	Vertical
4	4844.000	34.62	-10.50	54.00	19.38	150	Vertical
5	7266.000	48.72	-2.62	74.00	25.28	150	Vertical
6	7266.000	38.30	-2.62	54.00	15.70	150	Vertical

#### Final Data List



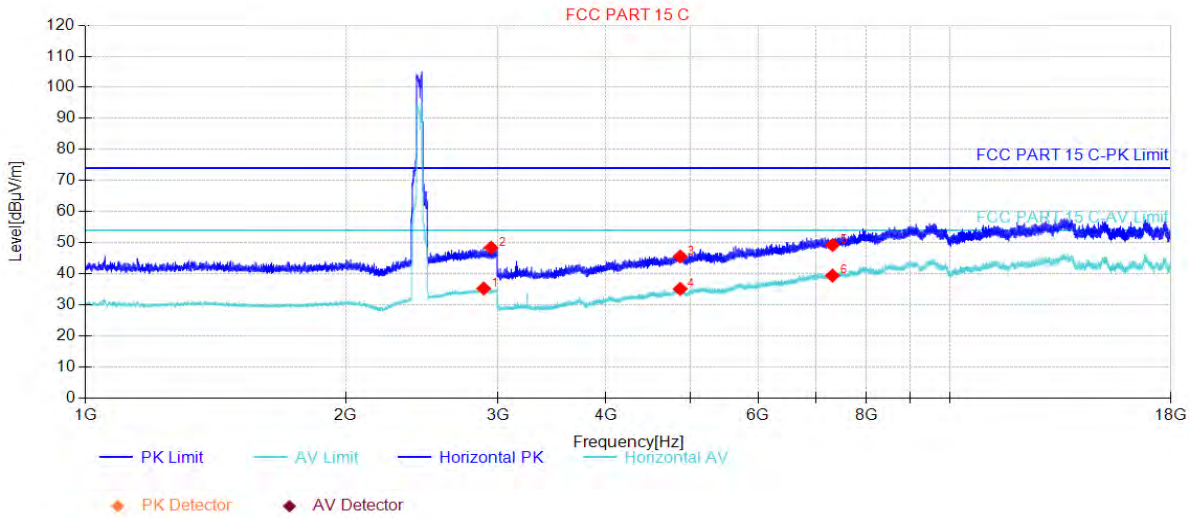
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4.9.2.21 802.11N40\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2887.788	35.21	6.92	54.00	18.79	150	Horizontal
2	2945.994	48.37	7.16	74.00	25.63	150	Horizontal
3	4874.000	45.52	-10.40	74.00	28.48	150	Horizontal
4	4874.000	35.10	-10.40	54.00	18.90	150	Horizontal
5	7311.000	49.25	-2.58	74.00	24.75	150	Horizontal
6	7311.000	39.39	-2.58	54.00	14.61	150	Horizontal

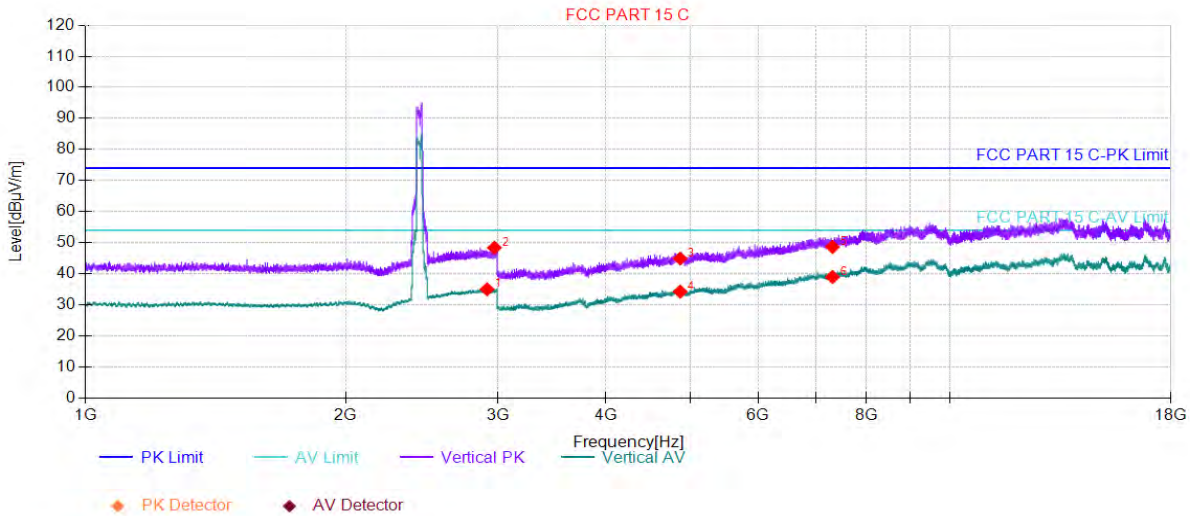
Final Data List



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### 4.9.2.22 802.11N40\_Channel 6

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2913.791	34.96	7.01	54.00	19.04	150	Vertical
2	2971.597	48.35	7.28	74.00	25.65	150	Vertical
3	4874.000	44.87	-10.40	74.00	29.13	150	Vertical
4	4874.000	34.20	-10.40	54.00	19.80	150	Vertical
5	7311.000	48.62	-2.58	74.00	25.38	150	Vertical
6	7311.000	38.94	-2.58	54.00	15.06	150	Vertical

#### Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2913.791	34.96	7.01	54.00	19.04	150	Vertical
2	2971.597	48.35	7.28	74.00	25.65	150	Vertical
3	4874.000	44.87	-10.40	74.00	29.13	150	Vertical
4	4874.000	34.20	-10.40	54.00	19.80	150	Vertical
5	7311.000	48.62	-2.58	74.00	25.38	150	Vertical
6	7311.000	38.94	-2.58	54.00	15.06	150	Vertical

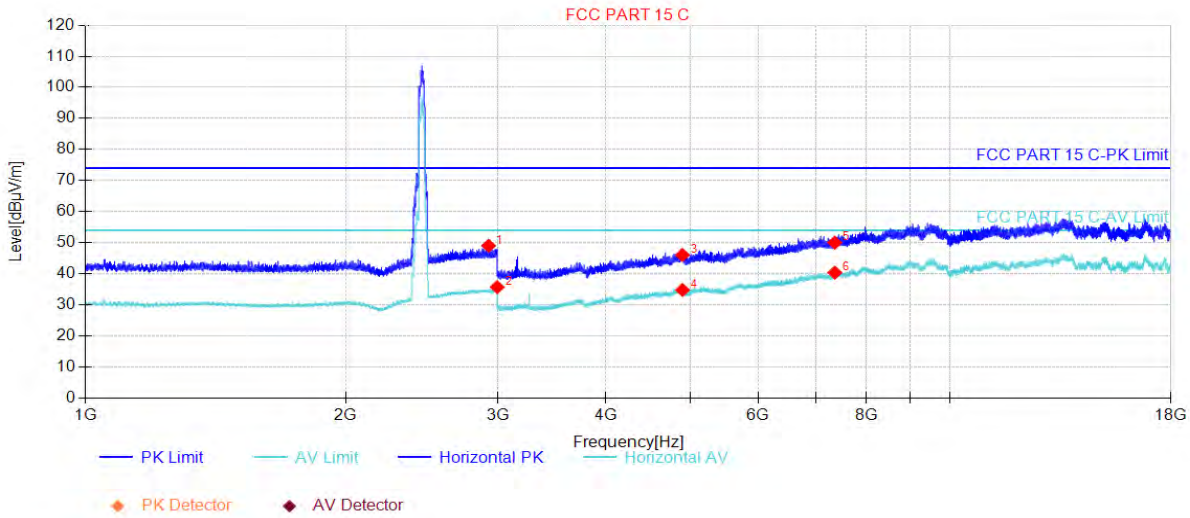


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4.9.2.23 802.11N40\_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2926.192	49.00	7.07	74.00	25.00	150	Horizontal
2	2993.999	35.66	7.38	54.00	18.34	150	Horizontal
3	4904.000	46.01	-10.30	74.00	27.99	150	Horizontal
4	4904.000	34.74	-10.30	54.00	19.26	150	Horizontal
5	7356.000	49.99	-2.27	74.00	24.01	150	Horizontal
6	7356.000	40.32	-2.27	54.00	13.68	150	Horizontal

Final Data List

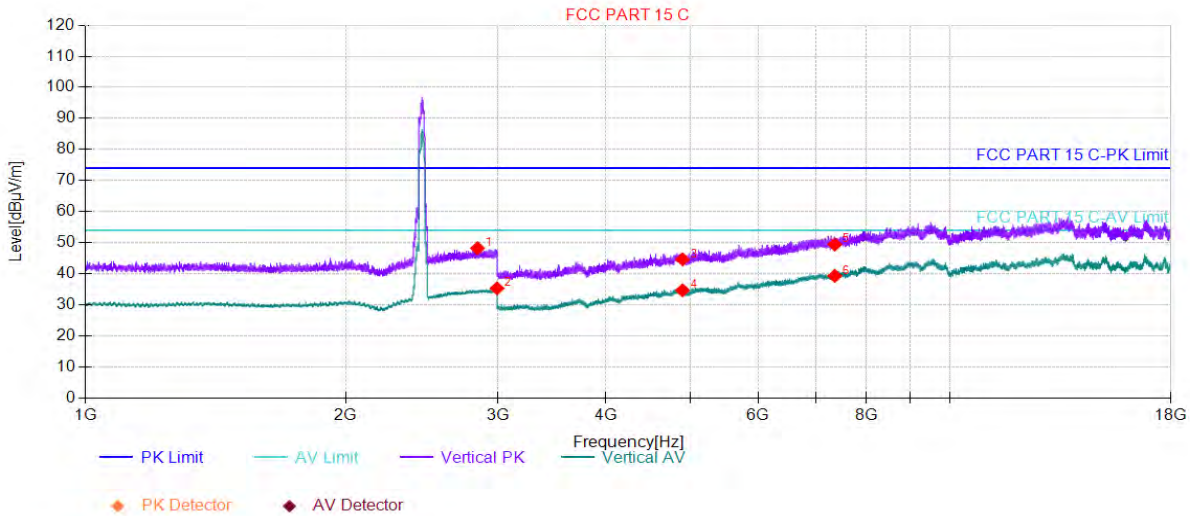


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**4.9.2.24 802.11N40\_Channel 9**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2841.184	48.19	6.82	74.00	25.81	150	Vertical
2	2992.599	35.28	7.38	54.00	18.72	150	Vertical
3	4904.000	44.62	-10.30	74.00	29.38	150	Vertical
4	4904.000	34.64	-10.30	54.00	19.36	150	Vertical
5	7356.000	49.40	-2.27	74.00	24.60	150	Vertical
6	7356.000	39.27	-2.27	54.00	14.73	150	Vertical

**Final Data List**

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.





### 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 or 10m (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:			

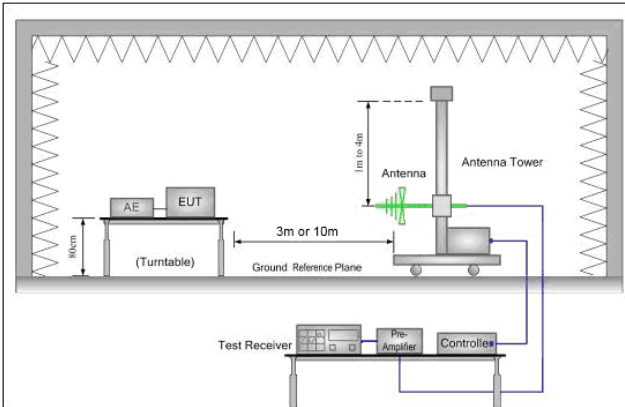


Figure 1. 30MHz to 1GHz

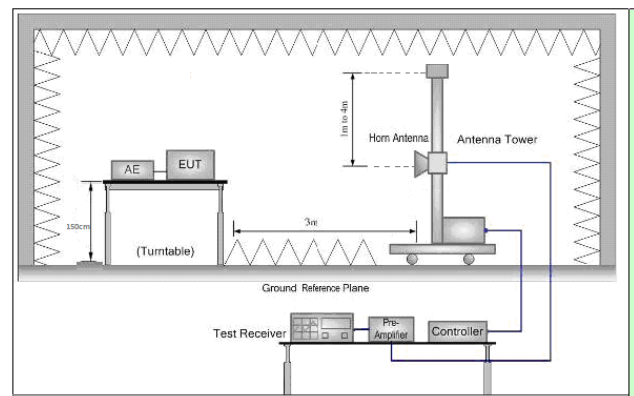


Figure 2. Above 1 GHz

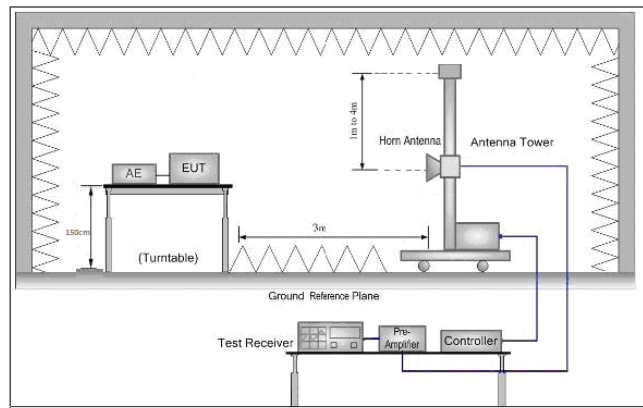


Figure 3. Above 1 GHz



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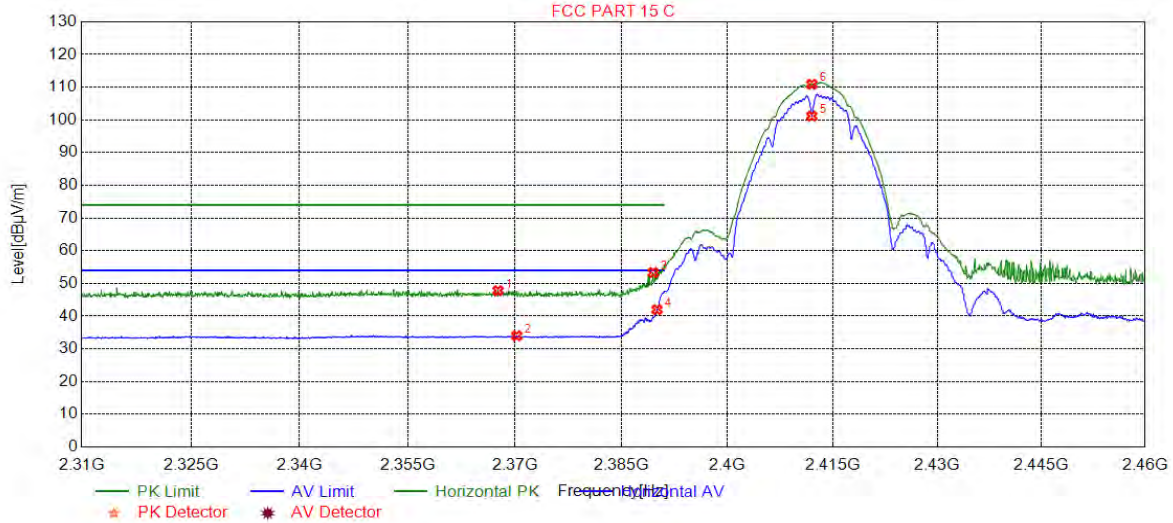
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For 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>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          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.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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**4.10.1 Test Plots**  
**4.10.1.1 802.11B\_Channel 1**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.628	47.81	74.00	26.19	300	104	Horizontal
2	2370.255	33.98	54.00	20.02	200	223	Horizontal
3	2389.464	53.36	74.00	20.64	100	208	Horizontal
4	2390.000	42.01	54.00	11.99	100	212	Horizontal
5	2412.000	101.17	0.00	-101.17	100	212	Horizontal
6	2412.000	110.91	0.00	-110.91	100	212	Horizontal

**Final Data List**

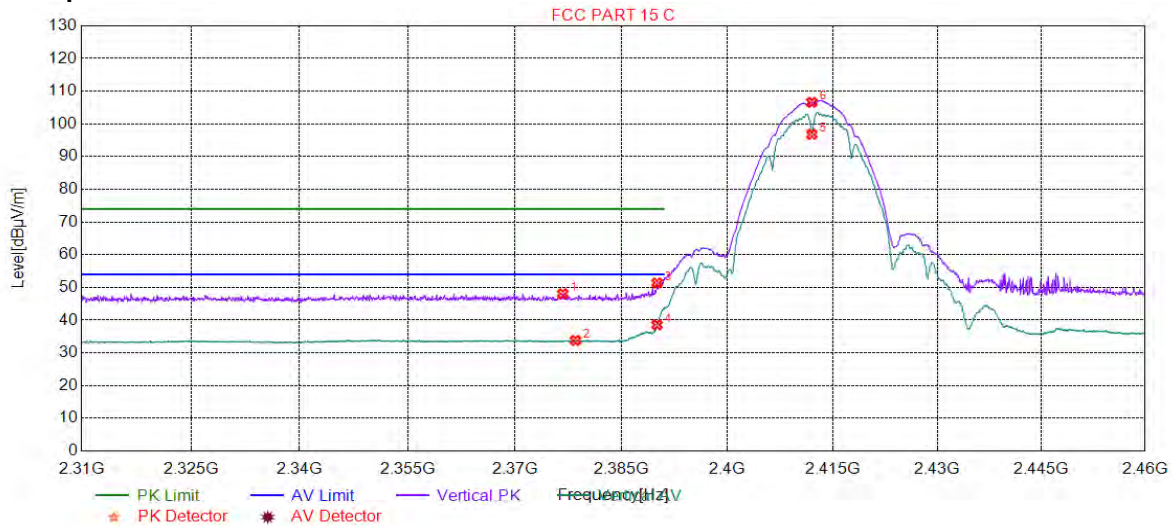


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### 4.10.1.2 802.11B\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.708	48.10	74.00	25.90	200	75	Vertical
2	2378.509	33.82	54.00	20.18	300	199	Vertical
3	2390.000	51.38	74.00	22.62	400	179	Vertical
4	2390.000	38.59	54.00	15.41	400	194	Vertical
5	2412.000	96.83	0.00	-96.83	400	194	Vertical
6	2412.000	106.60	0.00	-106.60	400	194	Vertical

#### Final Data List

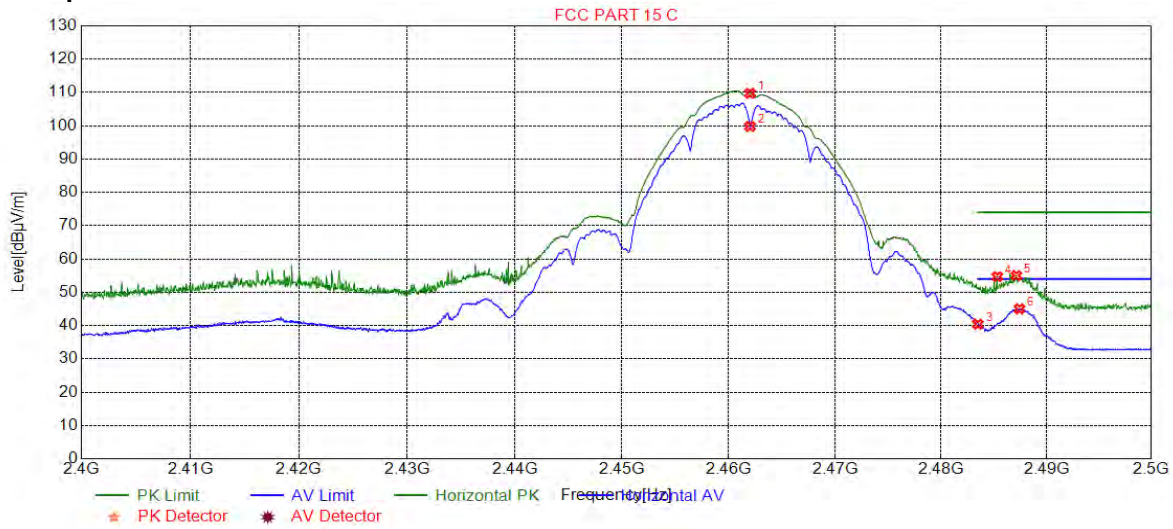


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### 4.10.1.3 802.11B\_Channel 11

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.75	0.00	-109.75	150	211	Horizontal
2	2462.000	99.82	0.00	-99.82	150	215	Horizontal
3	2483.500	40.46	54.00	13.54	150	215	Horizontal
4	2485.342	54.72	74.00	19.28	150	215	Horizontal
5	2487.143	55.04	74.00	18.96	150	211	Horizontal
6	2487.443	45.05	54.00	8.95	150	215	Horizontal

#### Final Data List

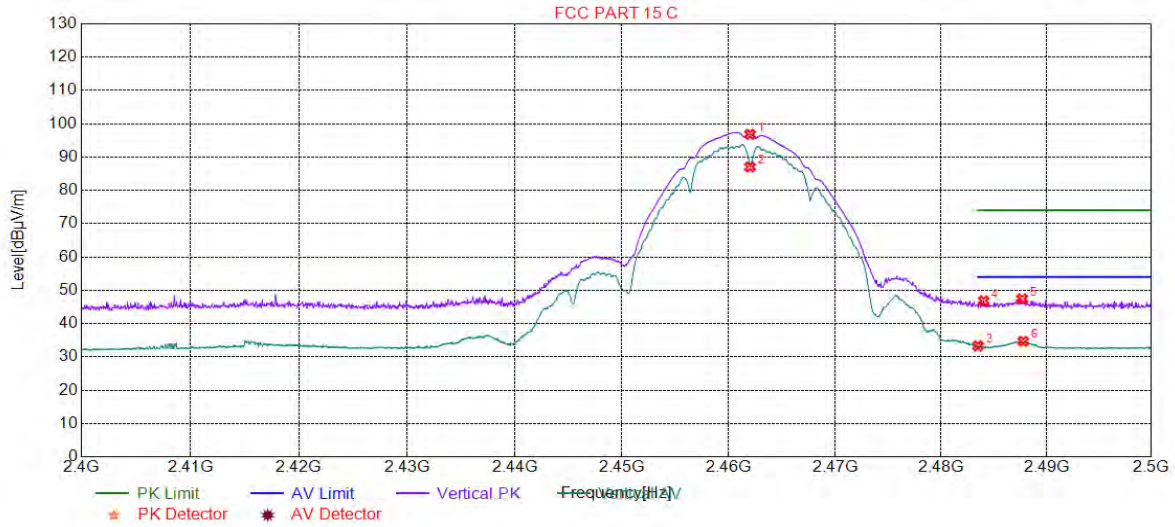


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4.10.1.4 802.11B\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	96.84	0.00	-96.84	150	222	Vertical
2	2462.000	87.05	0.00	-87.05	150	218	Vertical
3	2483.500	33.31	54.00	20.69	150	292	Vertical
4	2484.042	46.85	74.00	27.15	150	292	Vertical
5	2487.693	47.45	74.00	26.55	150	292	Vertical
6	2487.793	34.72	54.00	19.28	150	222	Vertical

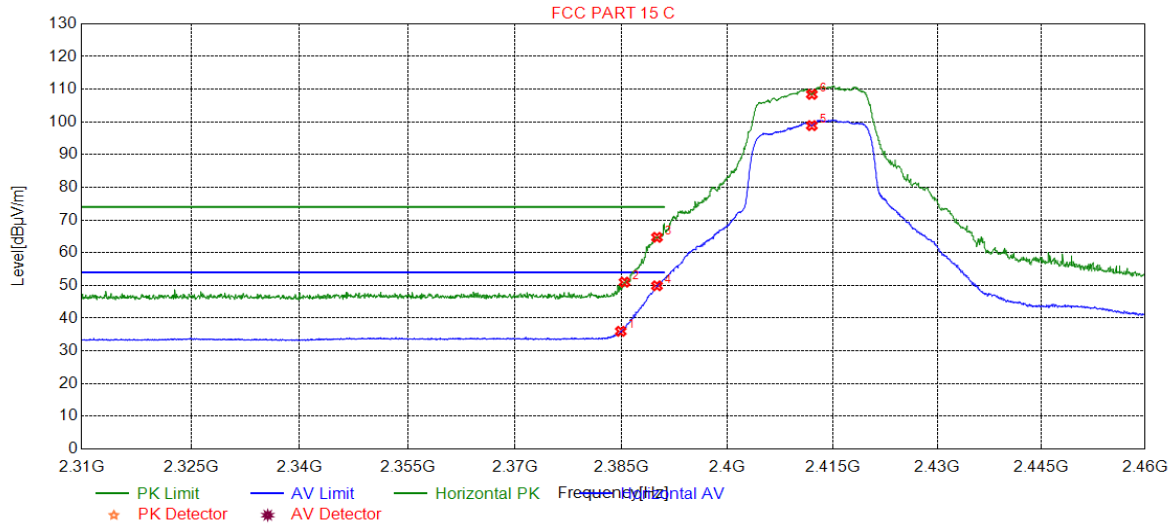
Final Data List



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### 4.10.1.5 802.11G\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.887	35.99	54.00	18.01	100	216	Horizontal
2	2385.412	51.01	74.00	22.99	200	225	Horizontal
3	2390.000	64.72	74.00	9.28	100	216	Horizontal
4	2390.000	49.91	54.00	4.09	100	220	Horizontal
5	2412.000	98.88	0.00	-98.88	100	220	Horizontal
6	2412.000	108.43	0.00	-108.43	100	220	Horizontal

#### Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.887	35.99	54.00	18.01	100	216	Horizontal
2	2385.412	51.01	74.00	22.99	200	225	Horizontal
3	2390.000	64.72	74.00	9.28	100	216	Horizontal
4	2390.000	49.91	54.00	4.09	100	220	Horizontal
5	2412.000	98.88	0.00	-98.88	100	220	Horizontal
6	2412.000	108.43	0.00	-108.43	100	220	Horizontal



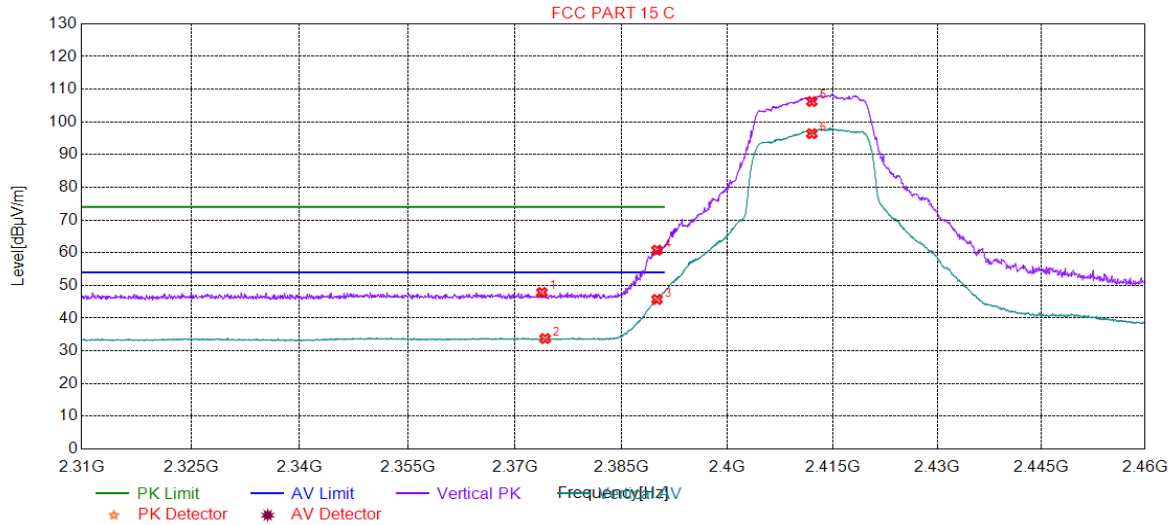
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### 4.10.1.6 802.11G\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.781	47.86	74.00	26.14	200	212	Vertical
2	2374.232	33.77	54.00	20.23	300	186	Vertical
3	2390.000	45.74	54.00	8.26	400	188	Vertical
4	2390.000	60.79	74.00	13.21	300	182	Vertical
5	2412.000	106.25	0.00	-106.25	400	188	Vertical
6	2412.000	96.43	0.00	-96.43	400	188	Vertical

#### Final Data List

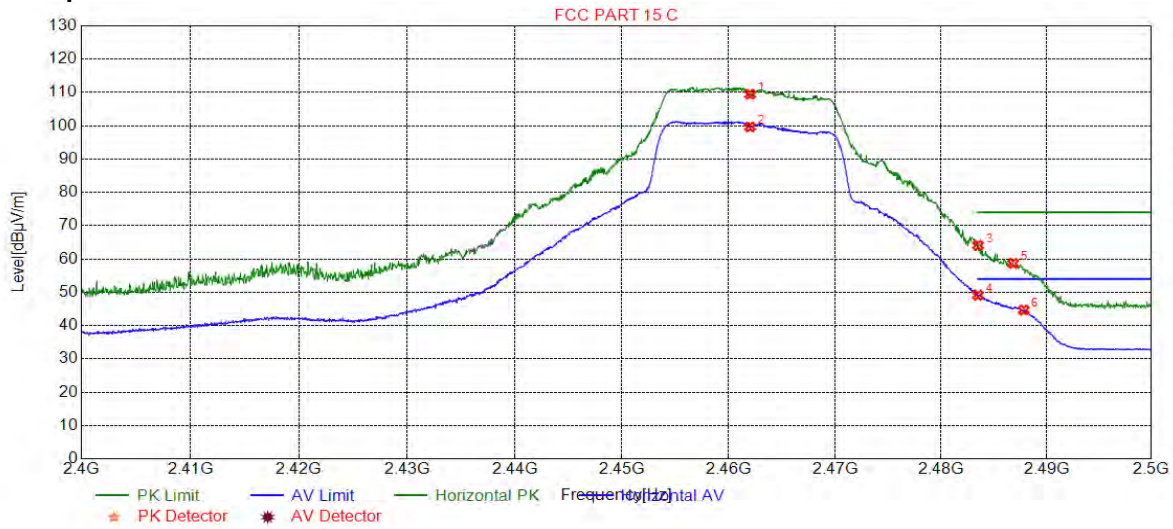


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### 4.10.1.7 802.11G\_Channel 11

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.46	0.00	-109.46	100	213	Horizontal
2	2462.000	99.66	0.00	-99.66	100	213	Horizontal
3	2483.500	64.09	74.00	9.91	100	213	Horizontal
4	2483.500	49.16	54.00	4.84	100	209	Horizontal
5	2486.843	58.69	74.00	15.31	100	213	Horizontal
6	2487.843	44.69	54.00	9.31	100	217	Horizontal

#### Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.46	0.00	-109.46	100	213	Horizontal
2	2462.000	99.66	0.00	-99.66	100	213	Horizontal
3	2483.500	64.09	74.00	9.91	100	213	Horizontal
4	2483.500	49.16	54.00	4.84	100	209	Horizontal
5	2486.843	58.69	74.00	15.31	100	213	Horizontal
6	2487.843	44.69	54.00	9.31	100	217	Horizontal

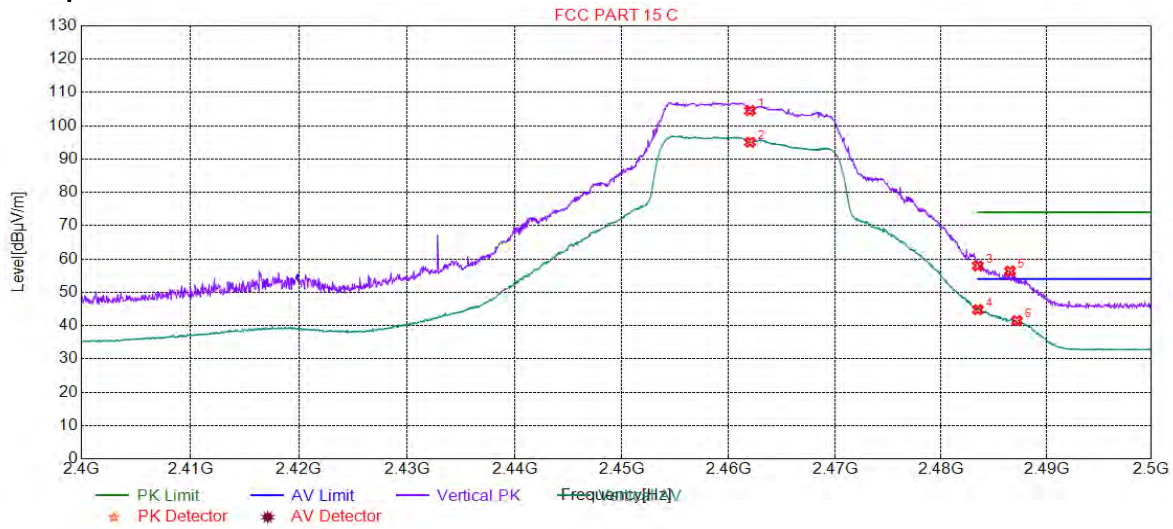


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### 4.10.1.8 802.11G\_Channel 11

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	104.56	0.00	-104.56	300	173	Vertical
2	2462.000	95.07	0.00	-95.07	300	173	Vertical
3	2483.500	57.96	74.00	16.04	300	180	Vertical
4	2483.500	44.81	54.00	9.19	300	173	Vertical
5	2486.543	56.40	74.00	17.60	300	176	Vertical
6	2487.193	41.51	54.00	12.49	300	176	Vertical

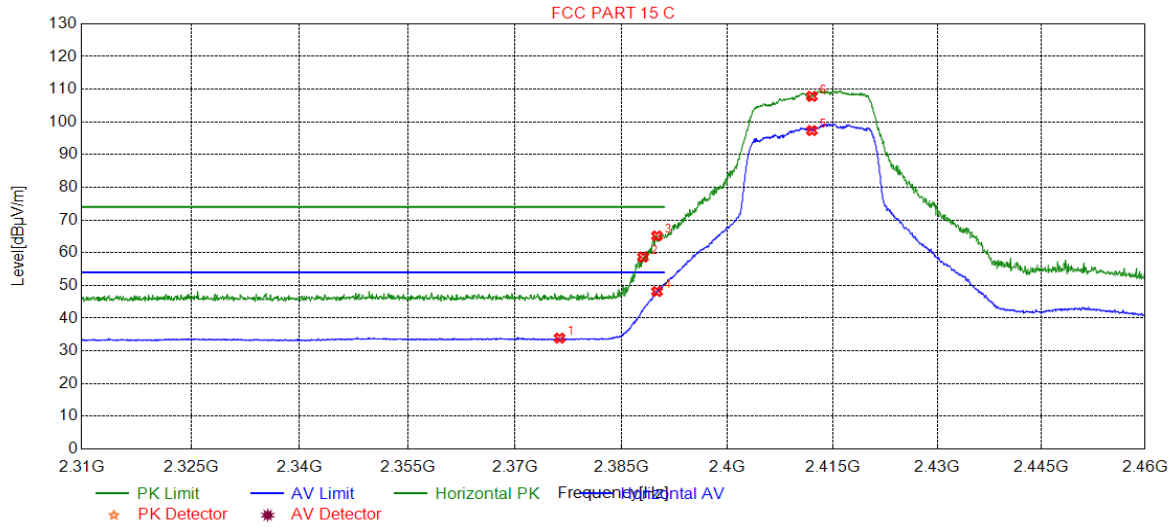
#### Final Data List



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### 4.10.1.9 802.11N20\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.258	33.91	54.00	20.09	150	263	Horizontal
2	2388.039	58.71	74.00	15.29	150	225	Horizontal
3	2389.990	65.15	74.00	8.85	150	210	Horizontal
4	2390.000	48.17	54.00	5.83	150	210	Horizontal
5	2412.000	97.37	0.00	-97.37	150	210	Horizontal
6	2412.000	107.82	0.00	-107.82	150	214	Horizontal

#### Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.258	33.91	54.00	20.09	150	263	Horizontal
2	2388.039	58.71	74.00	15.29	150	225	Horizontal
3	2389.990	65.15	74.00	8.85	150	210	Horizontal
4	2390.000	48.17	54.00	5.83	150	210	Horizontal
5	2412.000	97.37	0.00	-97.37	150	210	Horizontal
6	2412.000	107.82	0.00	-107.82	150	214	Horizontal



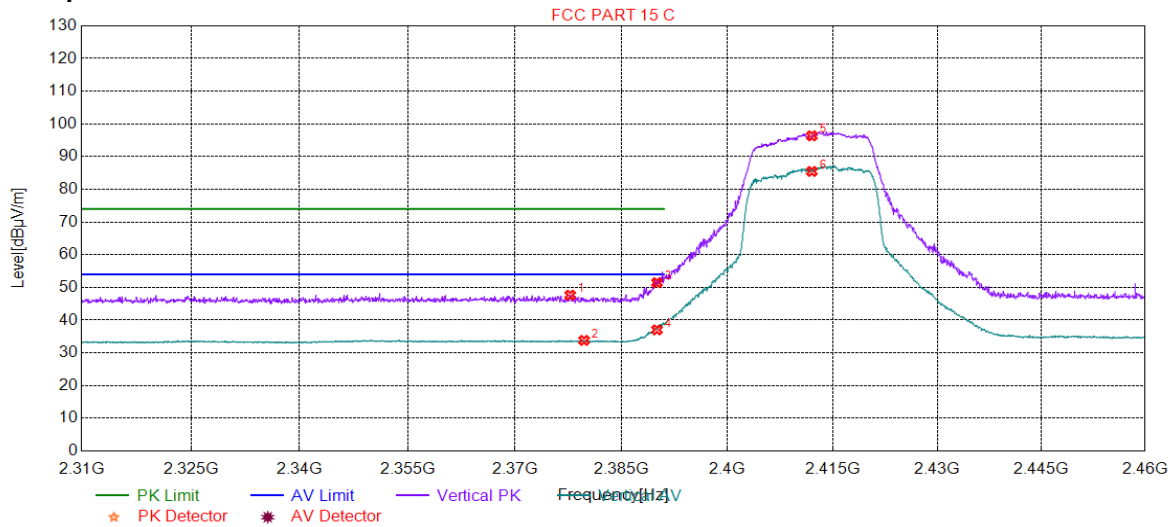
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4.10.1.10 802.11N20\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.758	47.66	74.00	26.34	150	180	Vertical
2	2379.709	33.83	54.00	20.17	150	263	Vertical
3	2390.000	51.50	74.00	22.50	150	286	Vertical
4	2390.000	37.05	54.00	16.95	150	278	Vertical
5	2412.000	96.37	0.00	-96.37	150	290	Vertical
6	2412.000	85.49	0.00	-85.49	150	286	Vertical

Final Data List

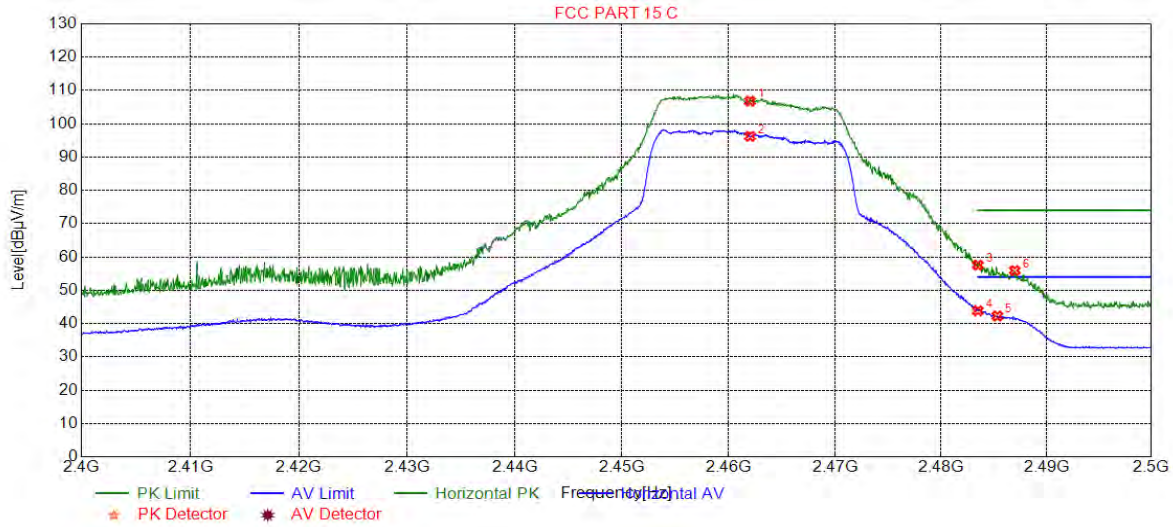


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### 4.10.1.11 802.11N20\_Channel 11

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.81	0.00	-106.81	150	210	Horizontal
2	2462.000	96.24	0.00	-96.24	150	210	Horizontal
3	2483.500	57.57	74.00	16.43	150	225	Horizontal
4	2483.500	43.88	54.00	10.12	150	206	Horizontal
5	2485.342	42.30	54.00	11.70	150	210	Horizontal
6	2486.993	55.96	74.00	18.04	150	206	Horizontal

#### Final Data List

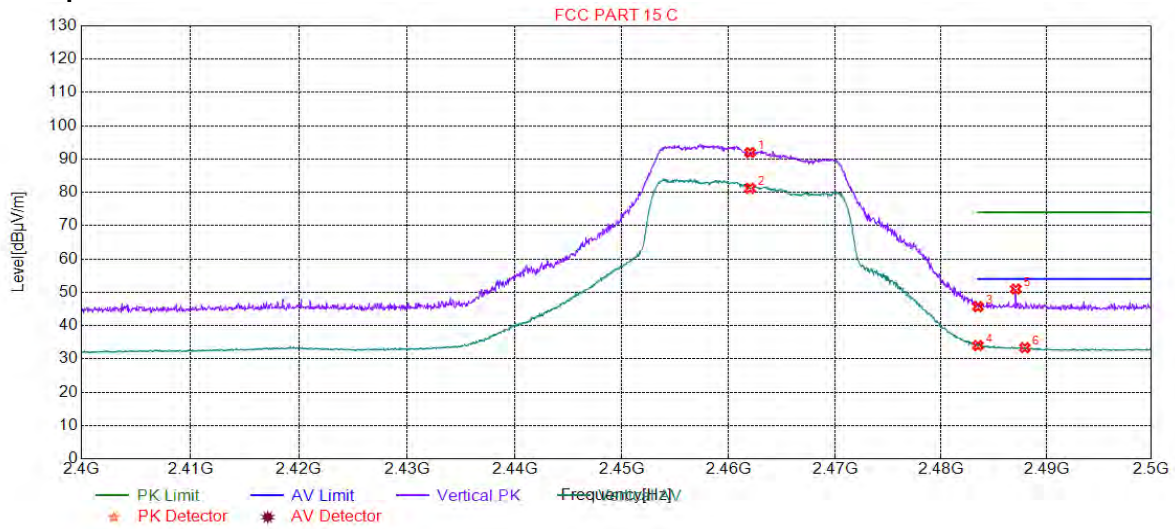


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4.10.1.12 802.11N20\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	91.98	0.00	-91.98	150	214	Vertical
2	2462.000	81.24	0.00	-81.24	150	214	Vertical
3	2483.500	45.70	74.00	28.30	150	304	Vertical
4	2483.500	34.03	54.00	19.97	150	180	Vertical
5	2487.093	51.00	74.00	23.00	150	308	Vertical
6	2487.944	33.38	54.00	20.62	150	199	Vertical

Final Data List

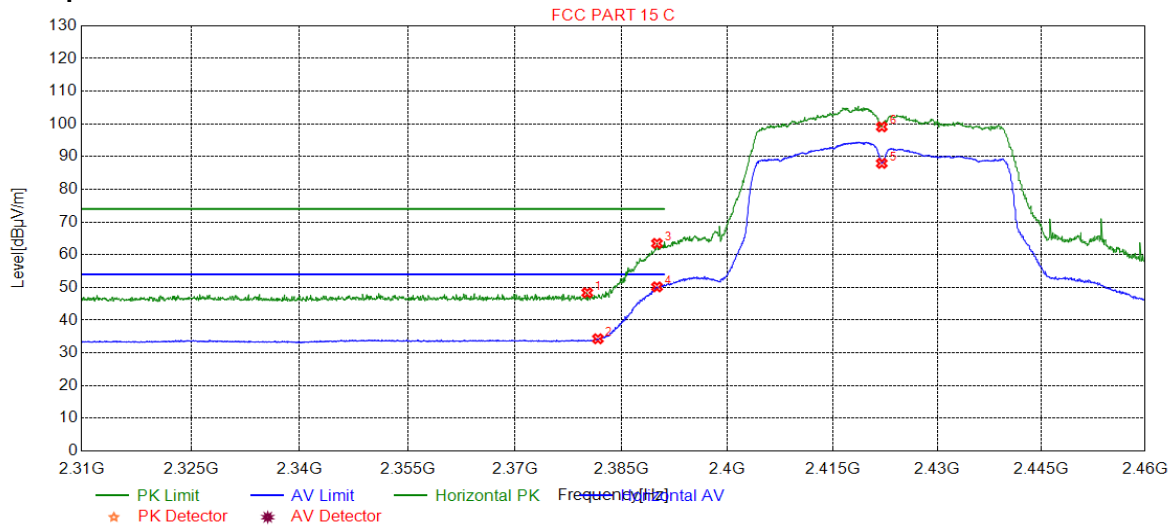


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4.10.1.13 802.11N40\_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.160	48.39	74.00	25.61	400	89	Horizontal
2	2381.660	34.32	54.00	19.68	100	222	Horizontal
3	2390.000	63.48	74.00	10.52	100	222	Horizontal
4	2390.000	50.18	54.00	3.82	100	222	Horizontal
5	2422.000	87.95	0.00	-87.95	100	218	Horizontal
6	2422.000	99.11	0.00	-99.11	100	226	Horizontal

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.160	48.39	74.00	25.61	400	89	Horizontal
2	2381.660	34.32	54.00	19.68	100	222	Horizontal
3	2390.000	63.48	74.00	10.52	100	222	Horizontal
4	2390.000	50.18	54.00	3.82	100	222	Horizontal
5	2422.000	87.95	0.00	-87.95	100	218	Horizontal
6	2422.000	99.11	0.00	-99.11	100	226	Horizontal



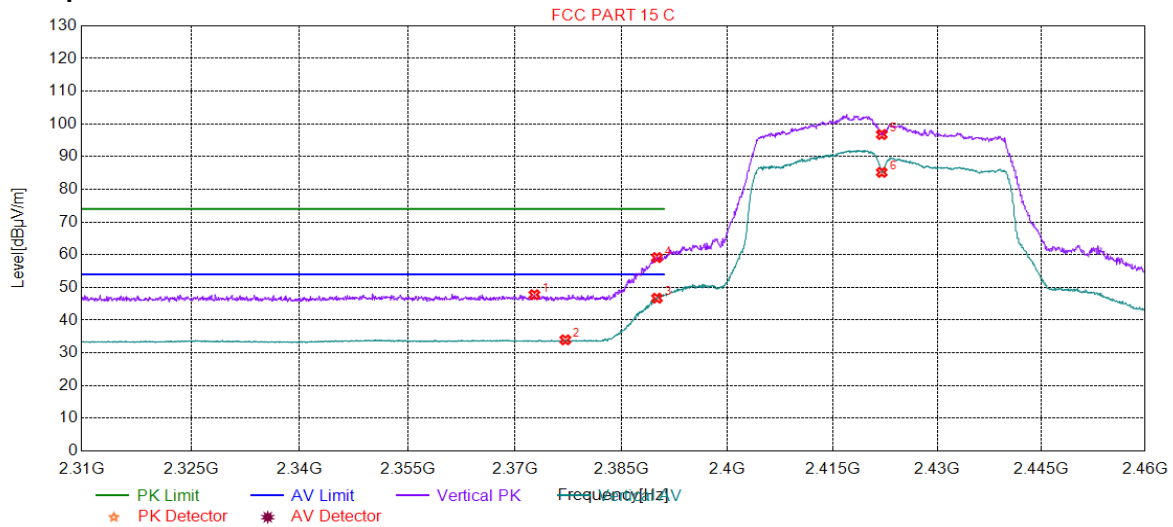
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4.10.1.14 802.11N40\_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.731	47.77	74.00	26.23	200	204	Vertical
2	2377.083	33.99	54.00	20.01	400	198	Vertical
3	2390.000	46.73	54.00	7.27	400	183	Vertical
4	2390.000	59.14	74.00	14.86	400	190	Vertical
5	2422.000	96.76	0.00	-96.76	400	183	Vertical
6	2422.000	85.19	0.00	-85.19	400	179	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.731	47.77	74.00	26.23	200	204	Vertical
2	2377.083	33.99	54.00	20.01	400	198	Vertical
3	2390.000	46.73	54.00	7.27	400	183	Vertical
4	2390.000	59.14	74.00	14.86	400	190	Vertical
5	2422.000	96.76	0.00	-96.76	400	183	Vertical
6	2422.000	85.19	0.00	-85.19	400	179	Vertical



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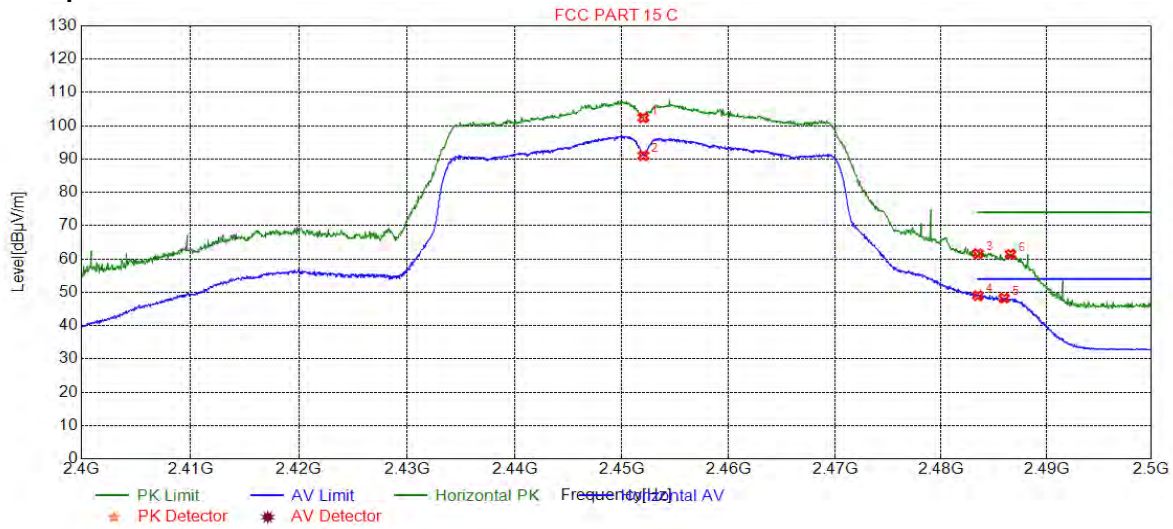
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4.10.1.15 802.11N40\_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	102.40	0.00	-102.40	100	216	Horizontal
2	2452.000	91.05	0.00	-91.05	100	216	Horizontal
3	2483.500	61.61	74.00	12.39	200	202	Horizontal
4	2483.500	49.01	54.00	4.99	200	206	Horizontal
5	2485.993	48.24	54.00	5.76	200	214	Horizontal
6	2486.593	61.42	74.00	12.58	200	206	Horizontal

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	102.40	0.00	-102.40	100	216	Horizontal
2	2452.000	91.05	0.00	-91.05	100	216	Horizontal
3	2483.500	61.61	74.00	12.39	200	202	Horizontal
4	2483.500	49.01	54.00	4.99	200	206	Horizontal
5	2485.993	48.24	54.00	5.76	200	214	Horizontal
6	2486.593	61.42	74.00	12.58	200	206	Horizontal

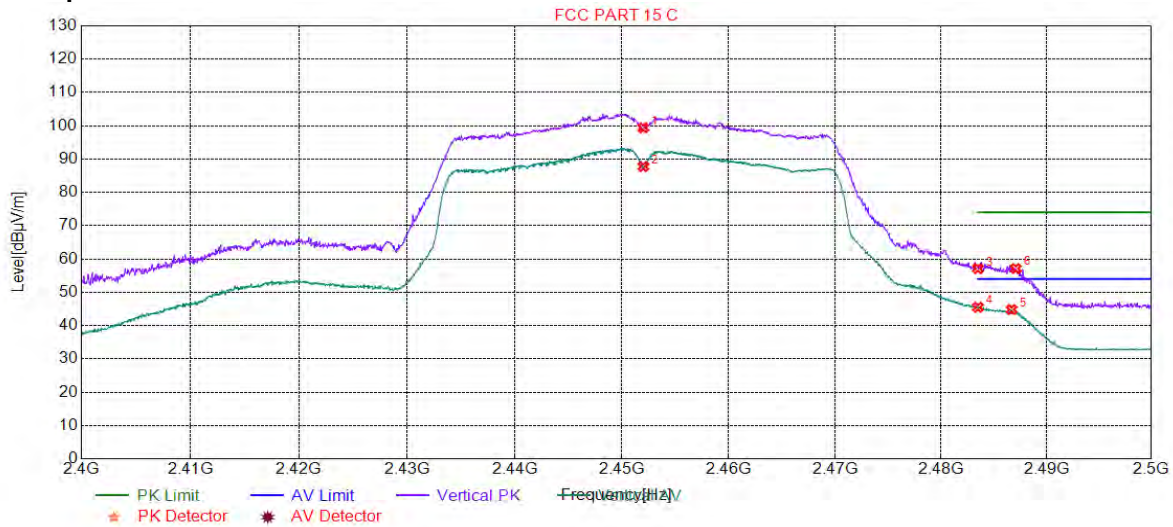


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4.10.1.16 802.11N40\_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	99.39	0.00	-99.39	400	174	Vertical
2	2452.000	87.75	0.00	-87.75	400	174	Vertical
3	2483.500	57.13	74.00	16.87	300	180	Vertical
4	2483.500	45.51	54.00	8.49	300	175	Vertical
5	2486.693	44.84	54.00	9.16	300	175	Vertical
6	2487.093	57.16	74.00	16.84	300	175	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221c	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc	FCC-TLISN-T202	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CPAR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-2	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/9/3	2021/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. Date (yyyy mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/22	2023/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/C0004.



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# Appendix



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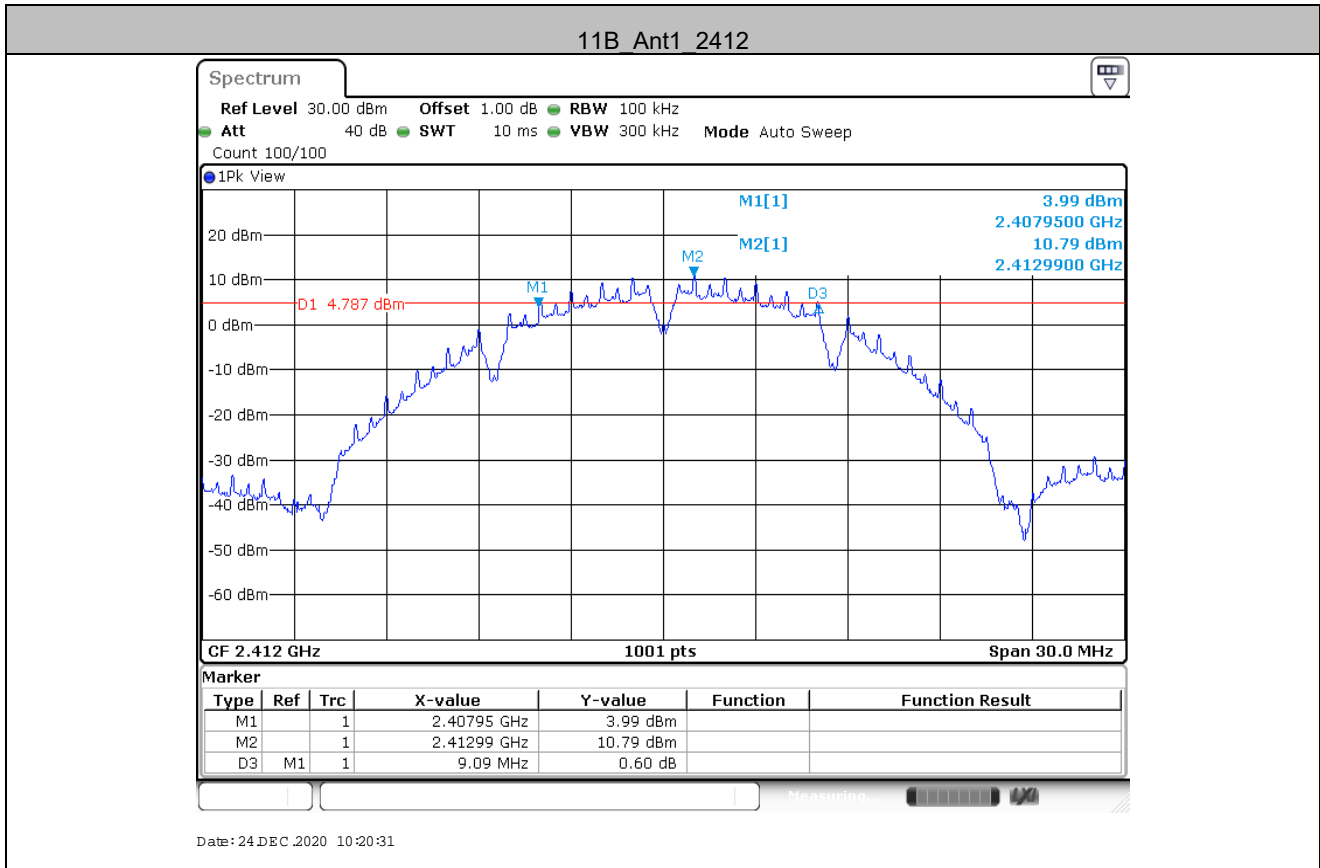
**DTS Bandwidth**  
**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.090	2407.950	2417.040	0.5	PASS
		2437	8.160	2432.920	2441.080	0.5	PASS
		2462	8.580	2456.960	2465.540	0.5	PASS
11G	Ant1	2412	15.480	2404.440	2419.920	0.5	PASS
		2437	15.840	2429.080	2444.920	0.5	PASS
		2462	15.510	2454.080	2469.590	0.5	PASS
11N20SISO	Ant1	2412	15.960	2404.470	2420.430	0.5	PASS
		2437	16.890	2428.540	2445.430	0.5	PASS
		2462	16.020	2453.570	2469.590	0.5	PASS
11N40SISO	Ant1	2422	35.160	2404.420	2439.580	0.5	PASS
		2437	36.480	2418.760	2455.240	0.5	PASS
		2452	35.220	2434.420	2469.640	0.5	PASS



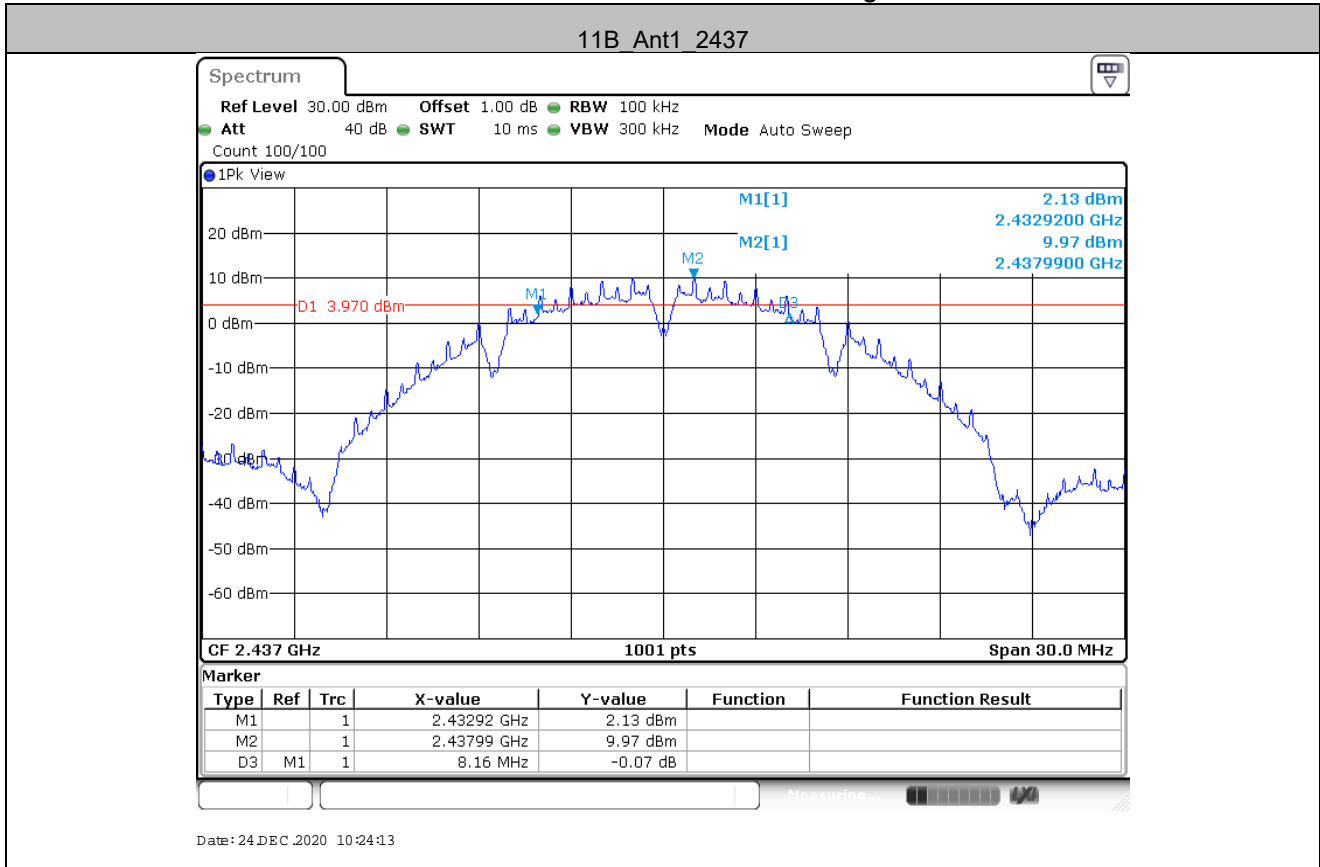
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### Test Graphs

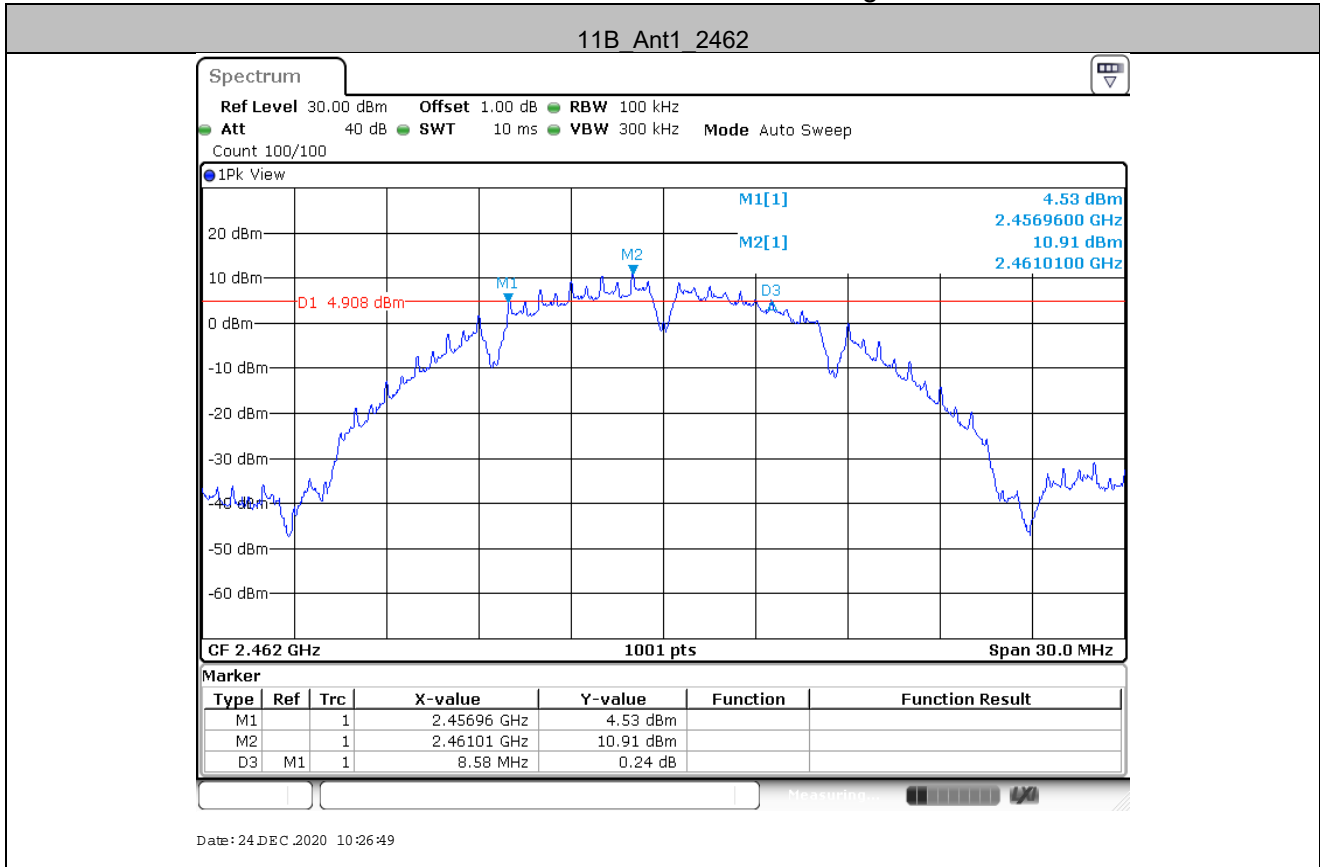


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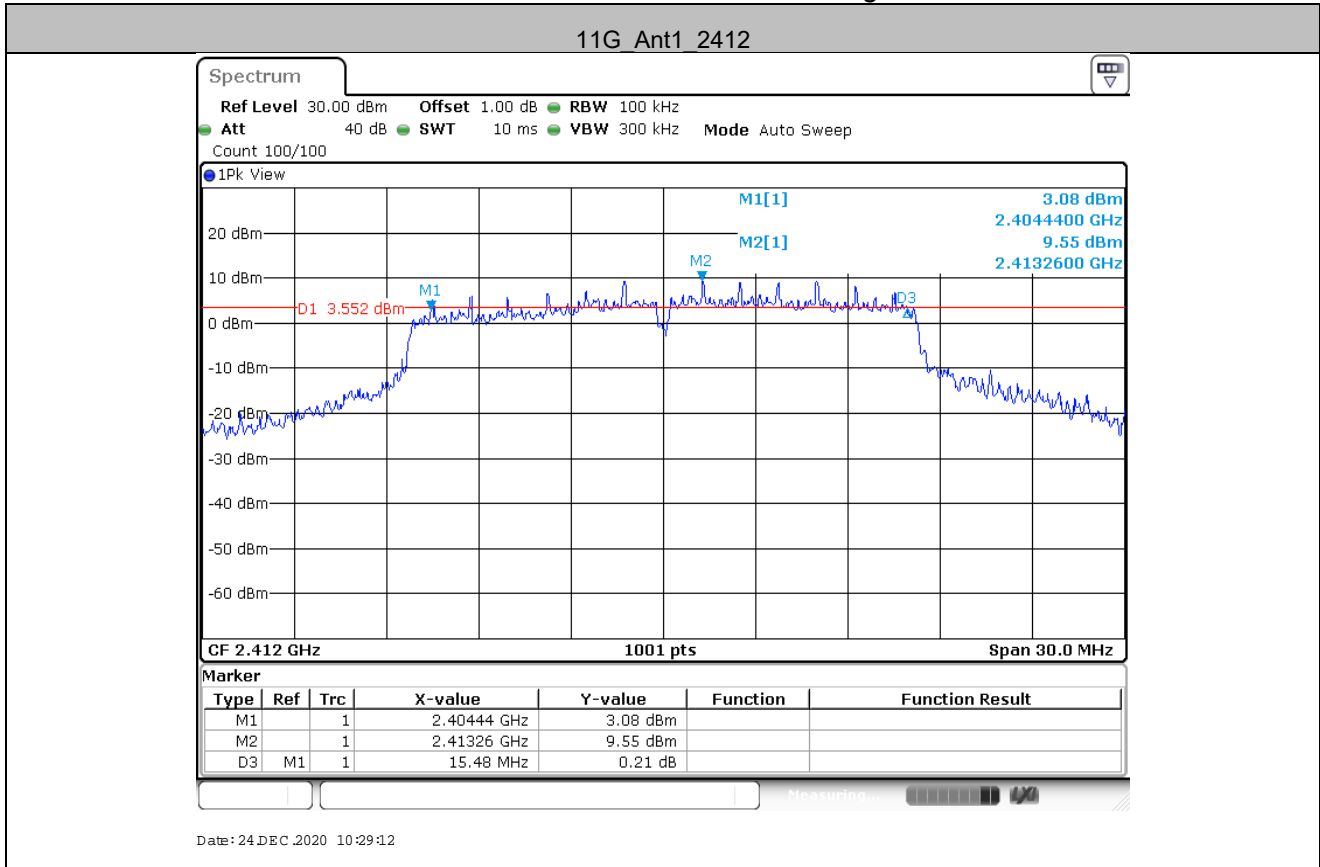


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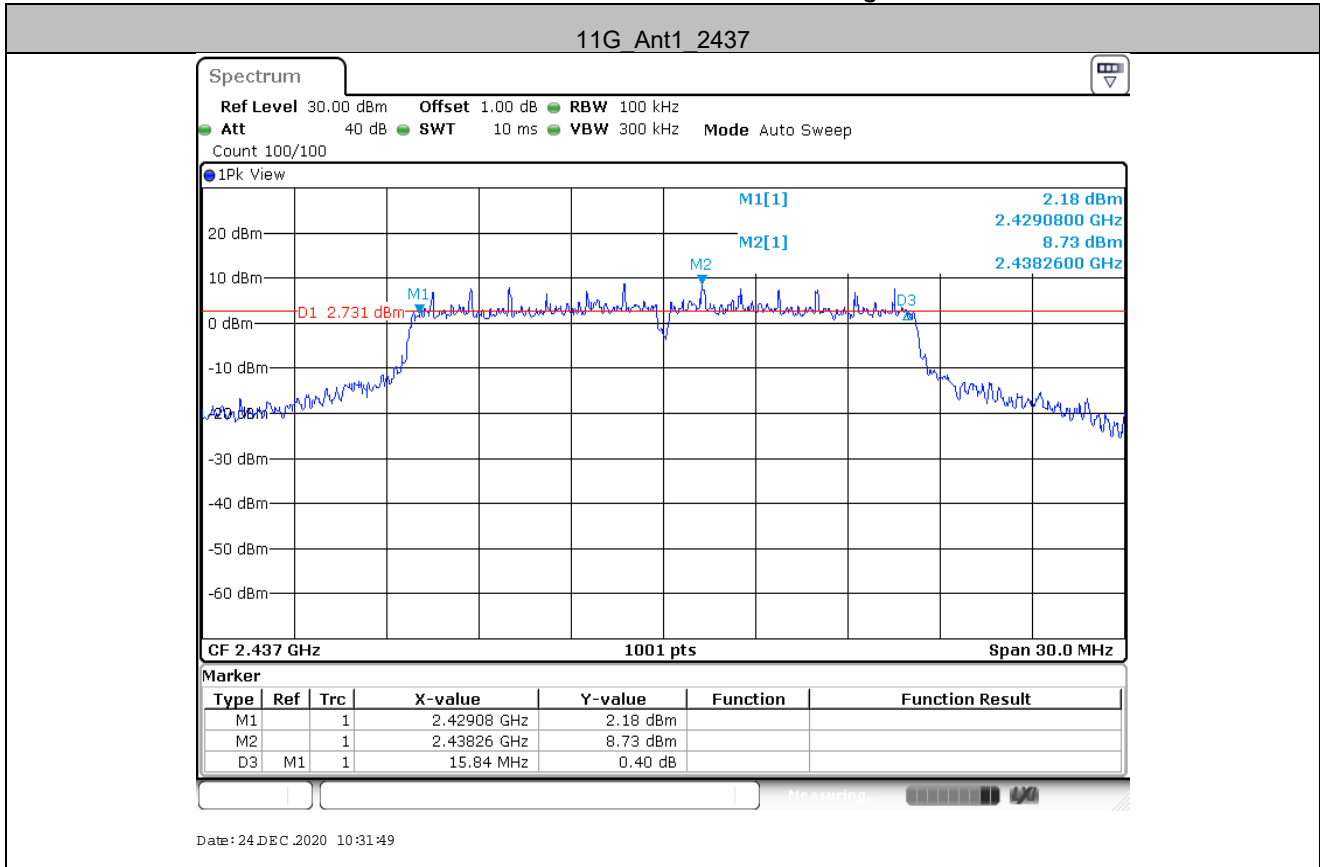
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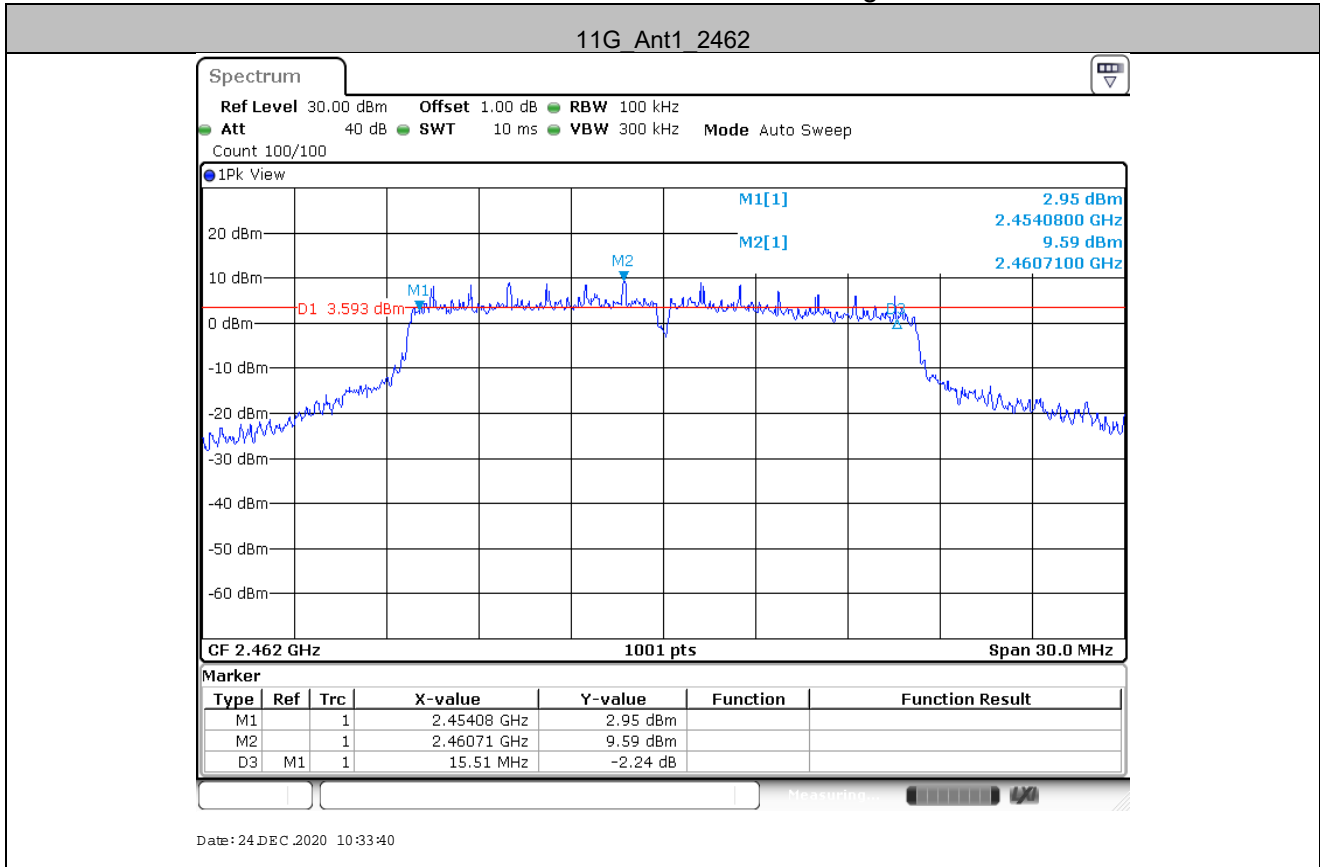


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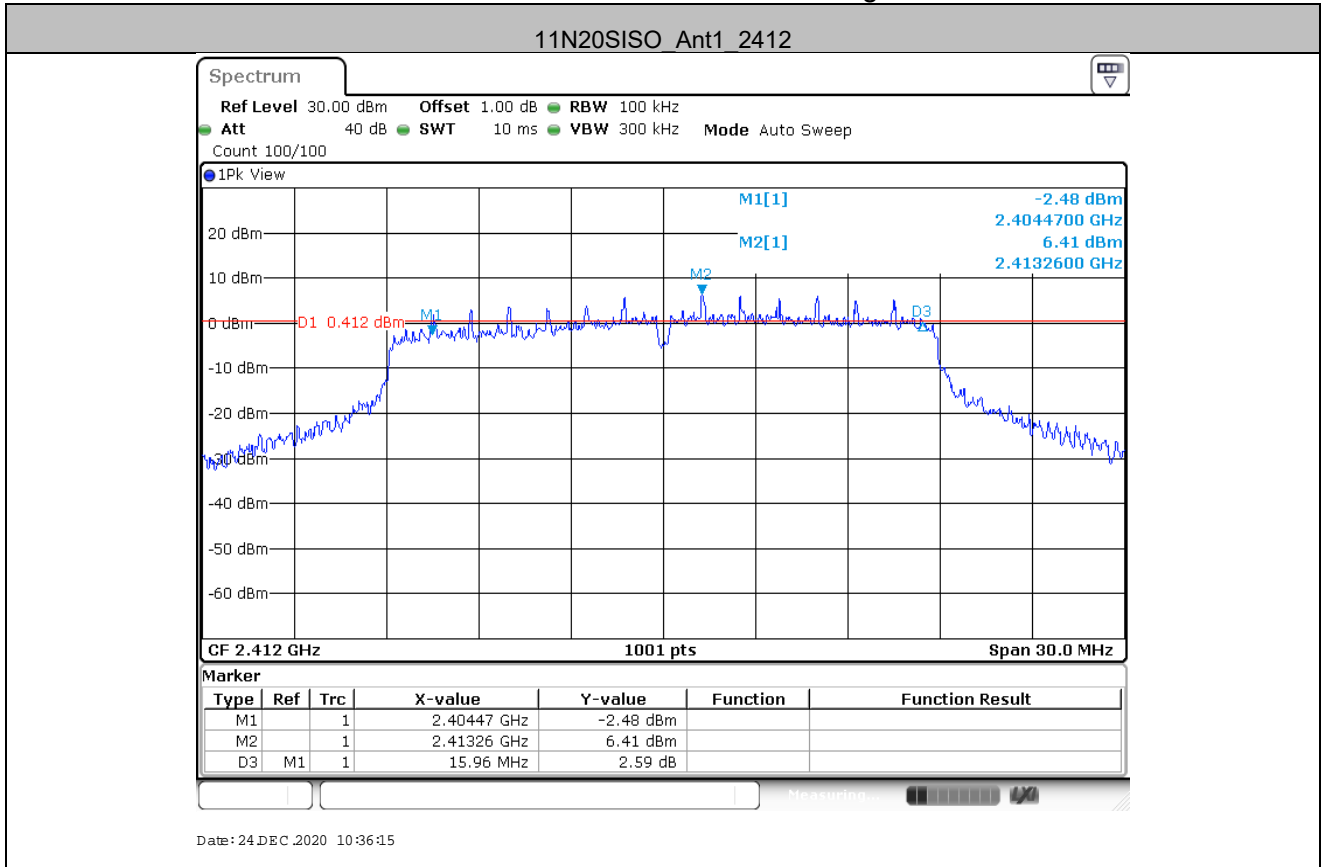


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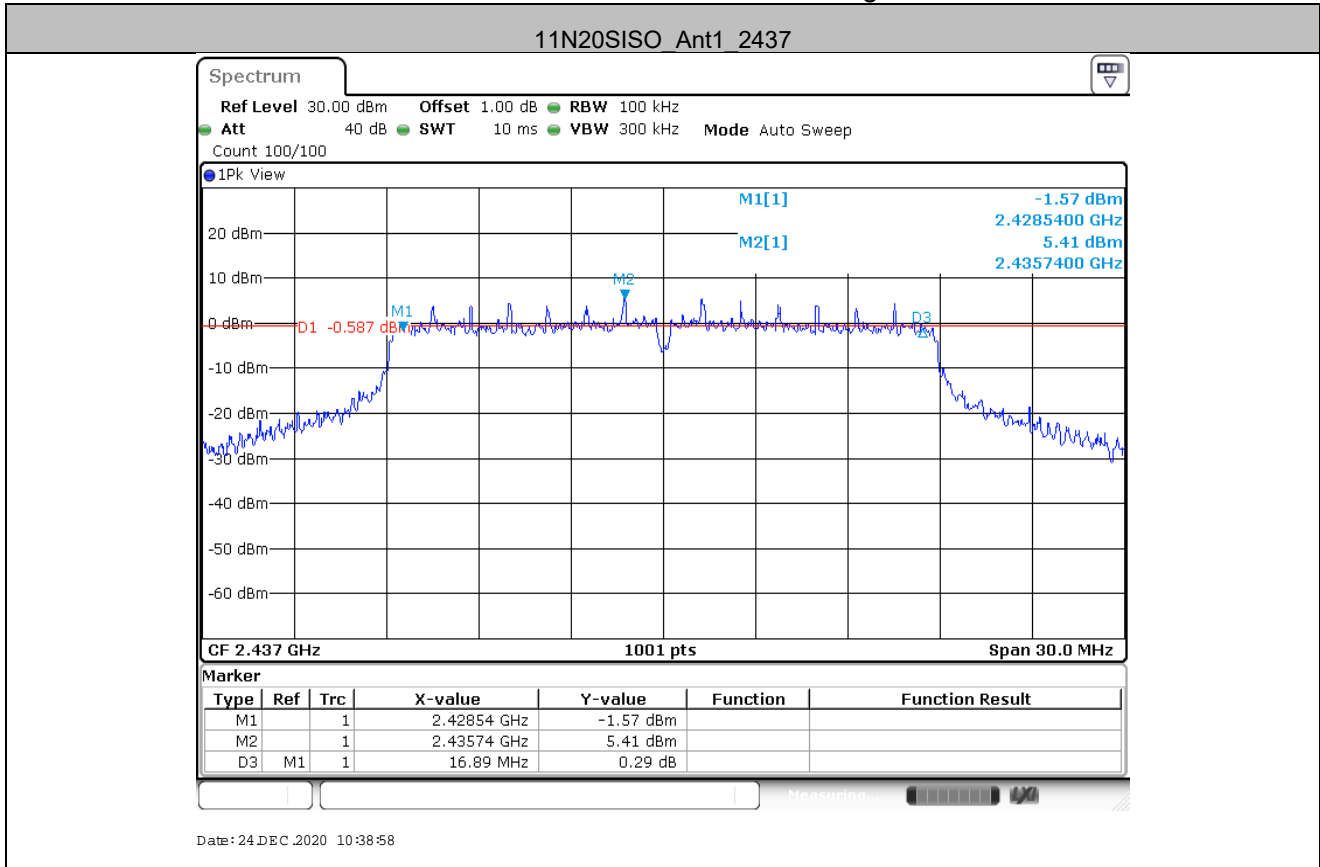
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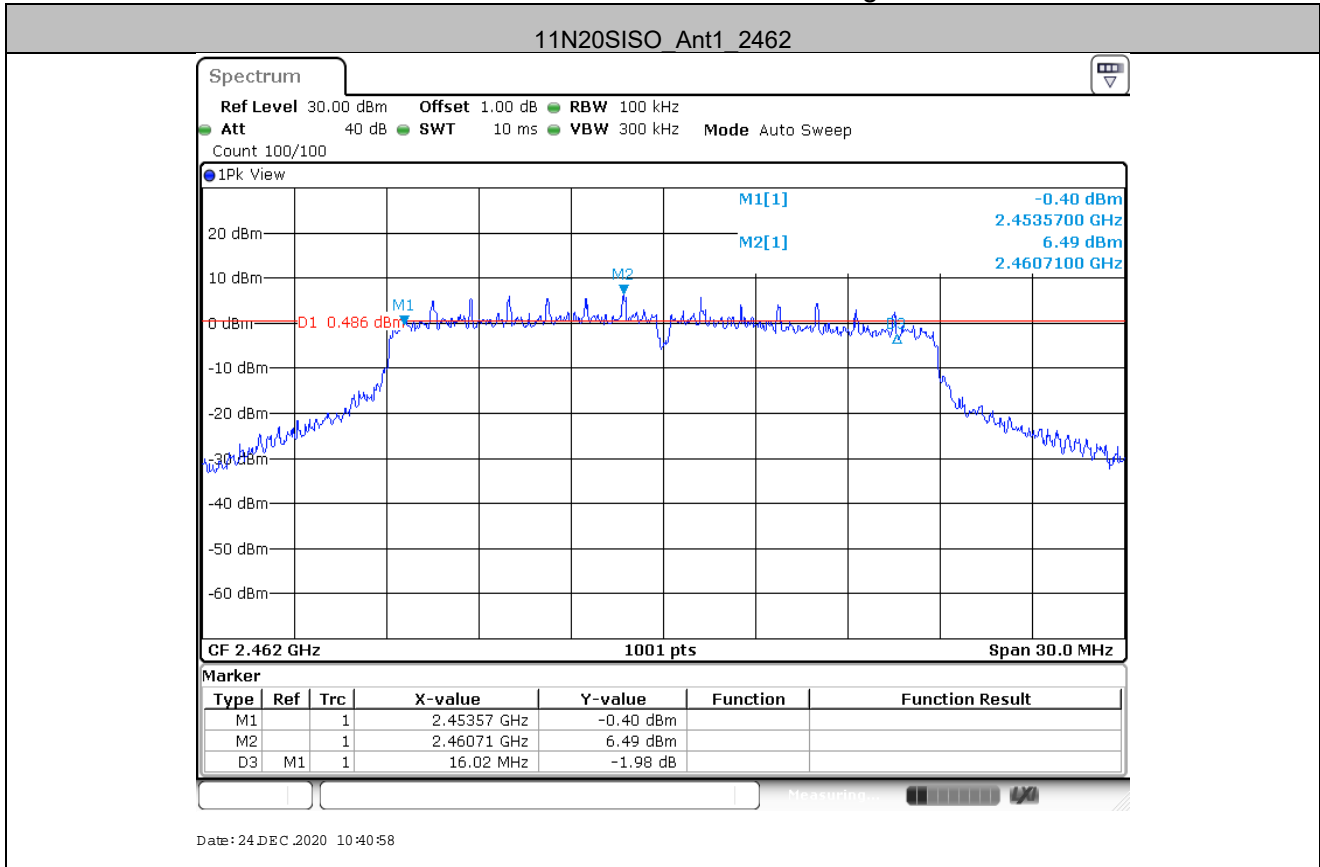


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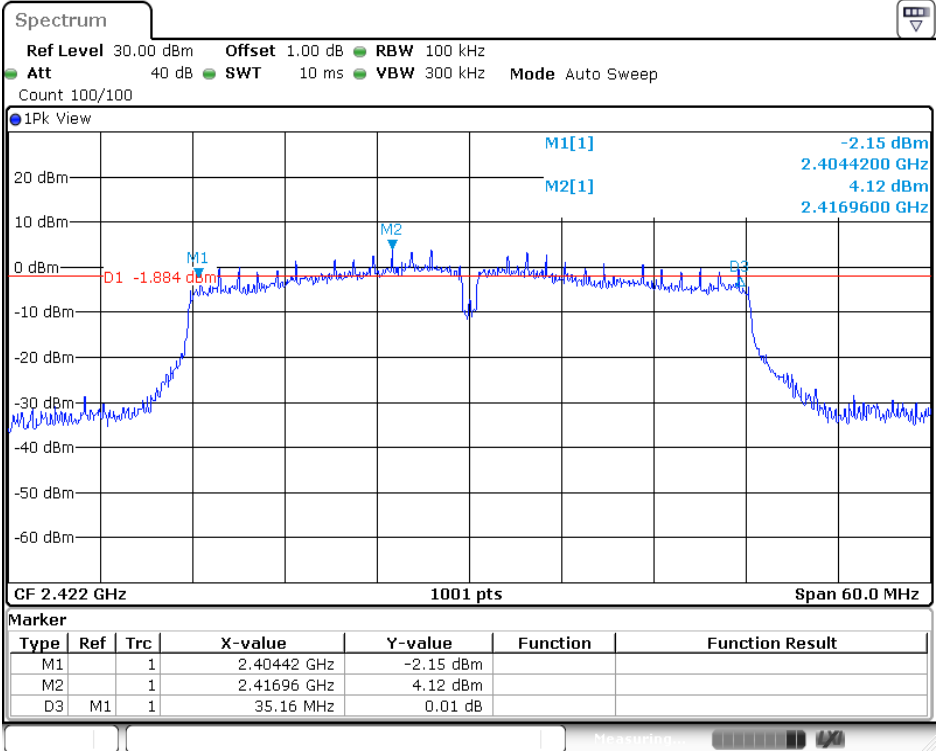


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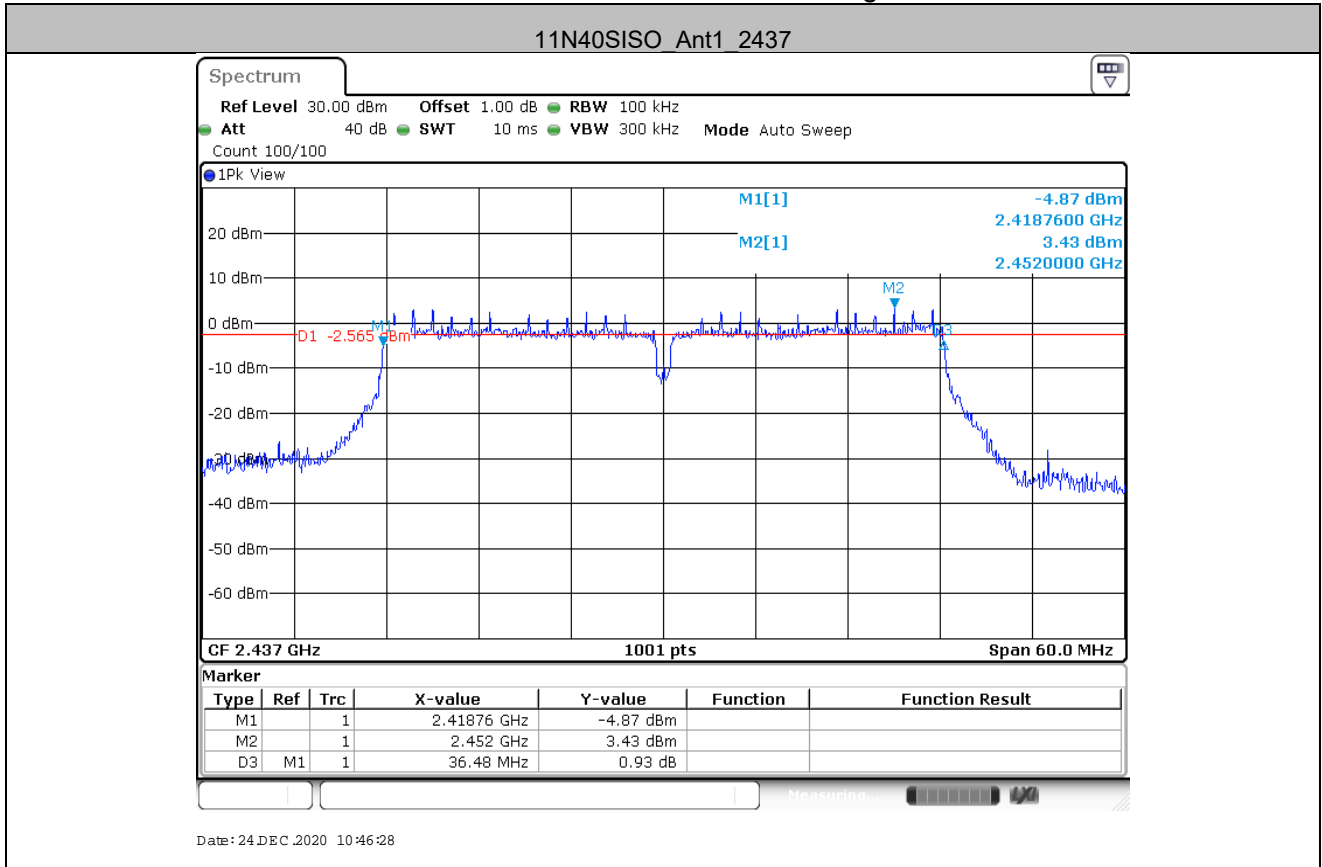


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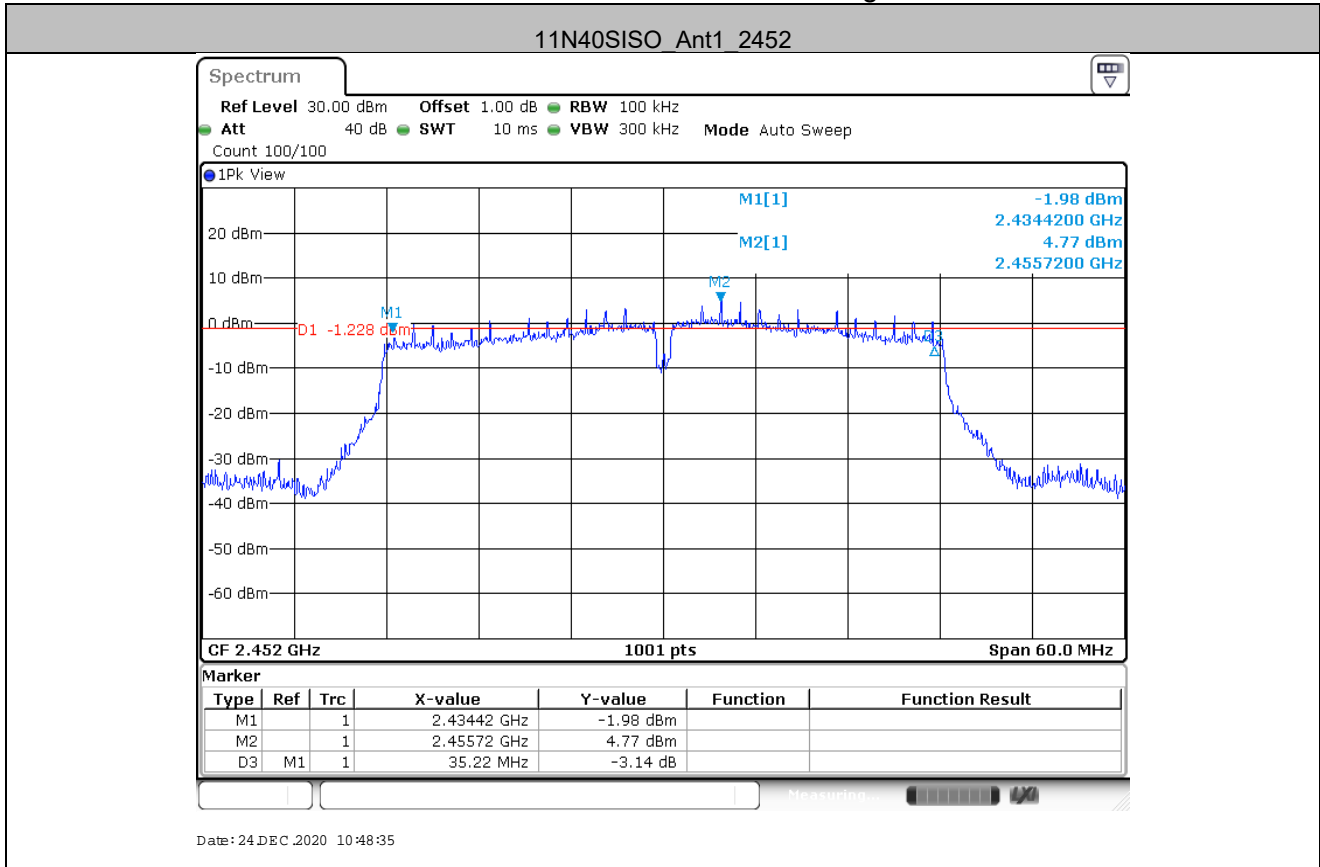
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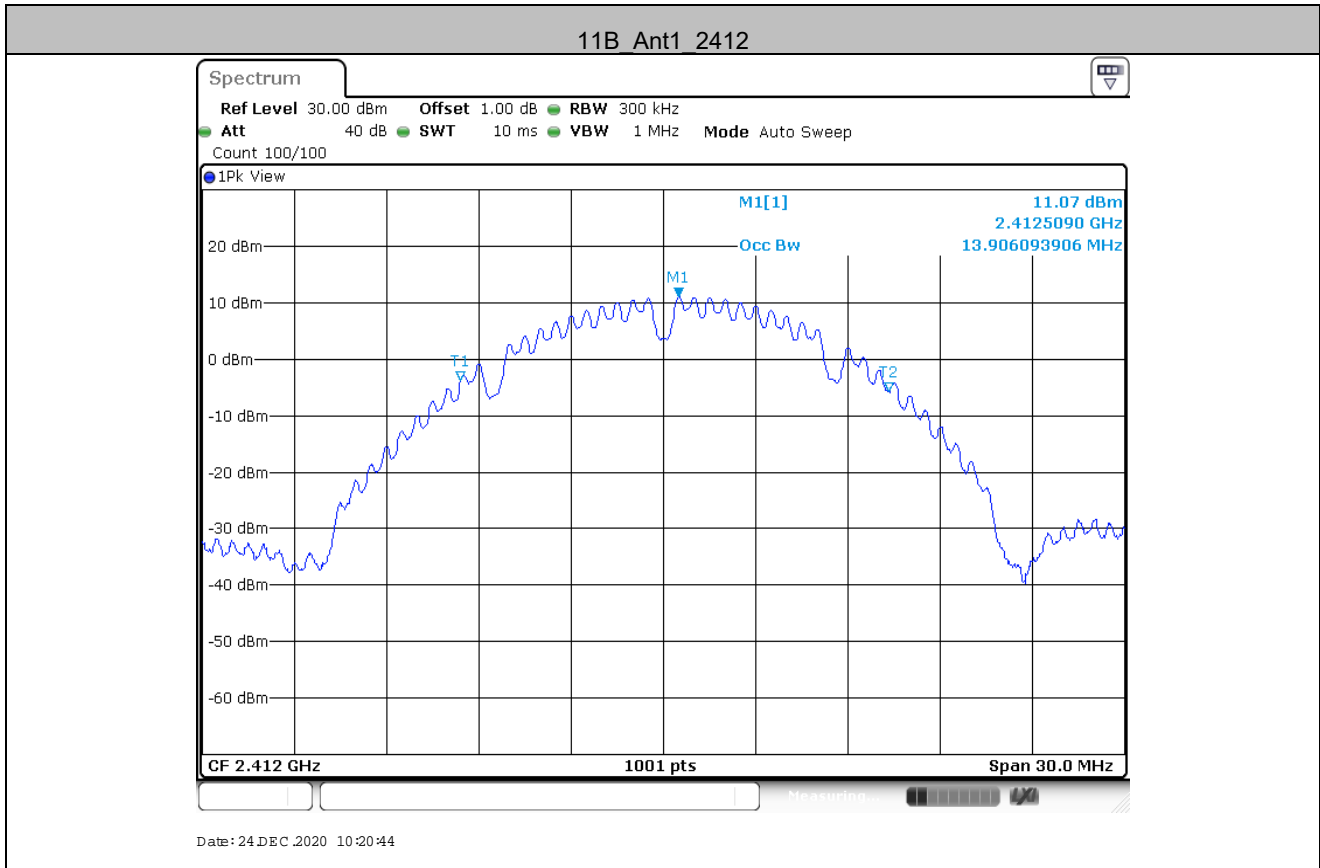
**Occupied Channel Bandwidth**  
**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.906	2405.407	2419.313	---	PASS
		2437	14.146	2429.987	2444.133	---	PASS
		2462	14.056	2454.837	2468.893	---	PASS
11G	Ant1	2412	17.083	2403.758	2420.841	---	PASS
		2437	17.413	2428.249	2445.661	---	PASS
		2462	16.873	2453.548	2470.422	---	PASS
11N20SISO	Ant1	2412	17.982	2403.189	2421.171	---	PASS
		2437	18.192	2427.949	2446.141	---	PASS
		2462	17.892	2453.009	2470.901	---	PASS
11N40SISO	Ant1	2422	36.324	2403.958	2440.282	---	PASS
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		2452	36.264	2434.018	2470.282	---	PASS



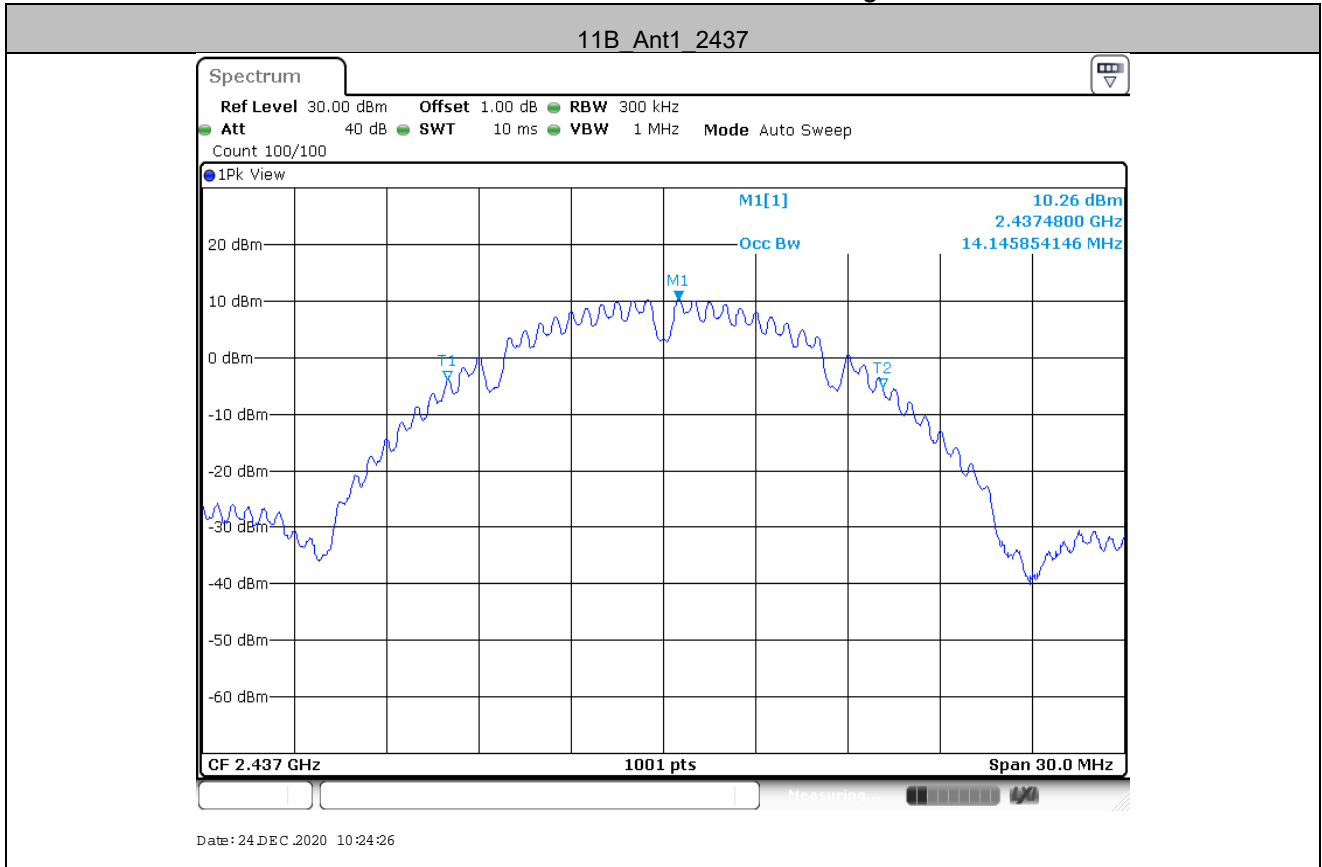
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### Test Graphs



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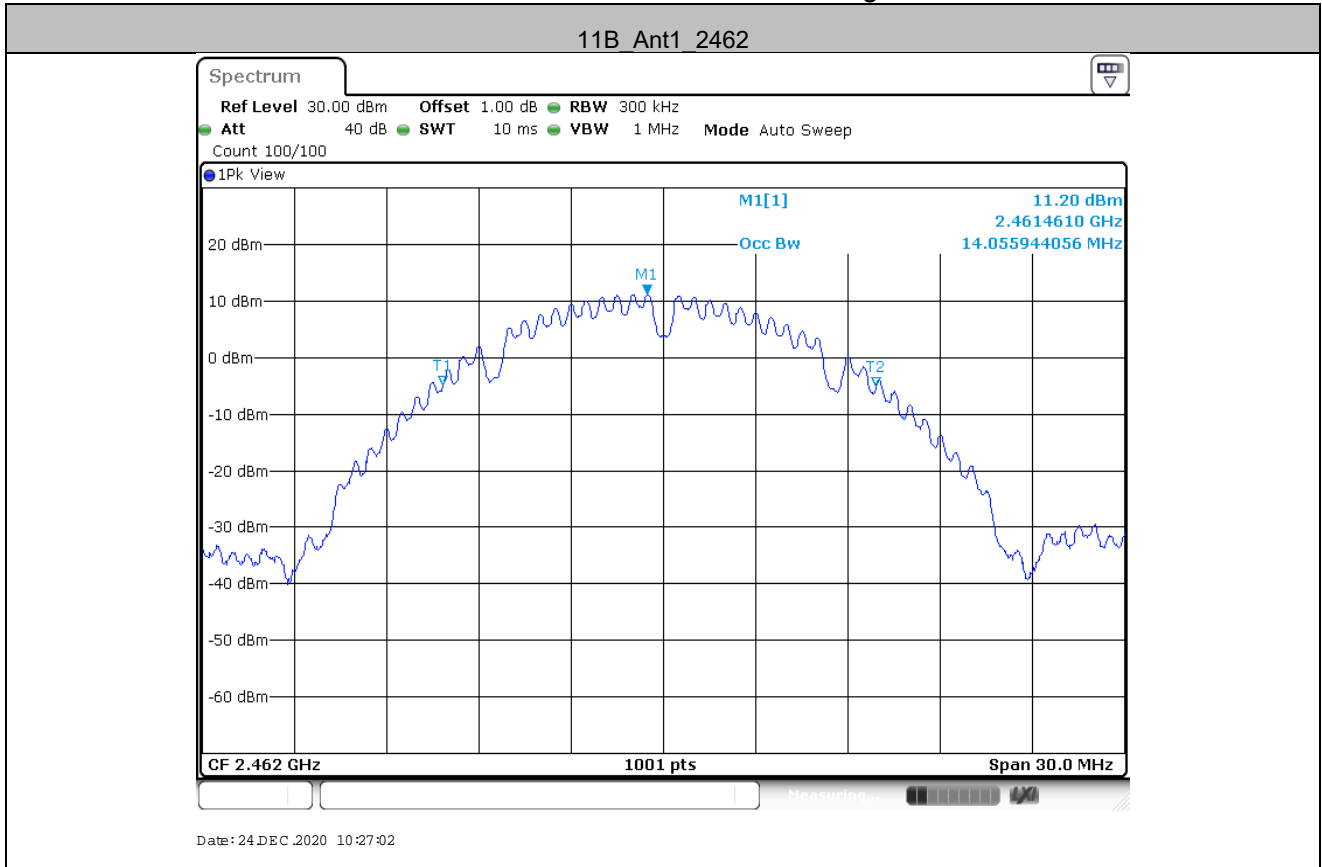
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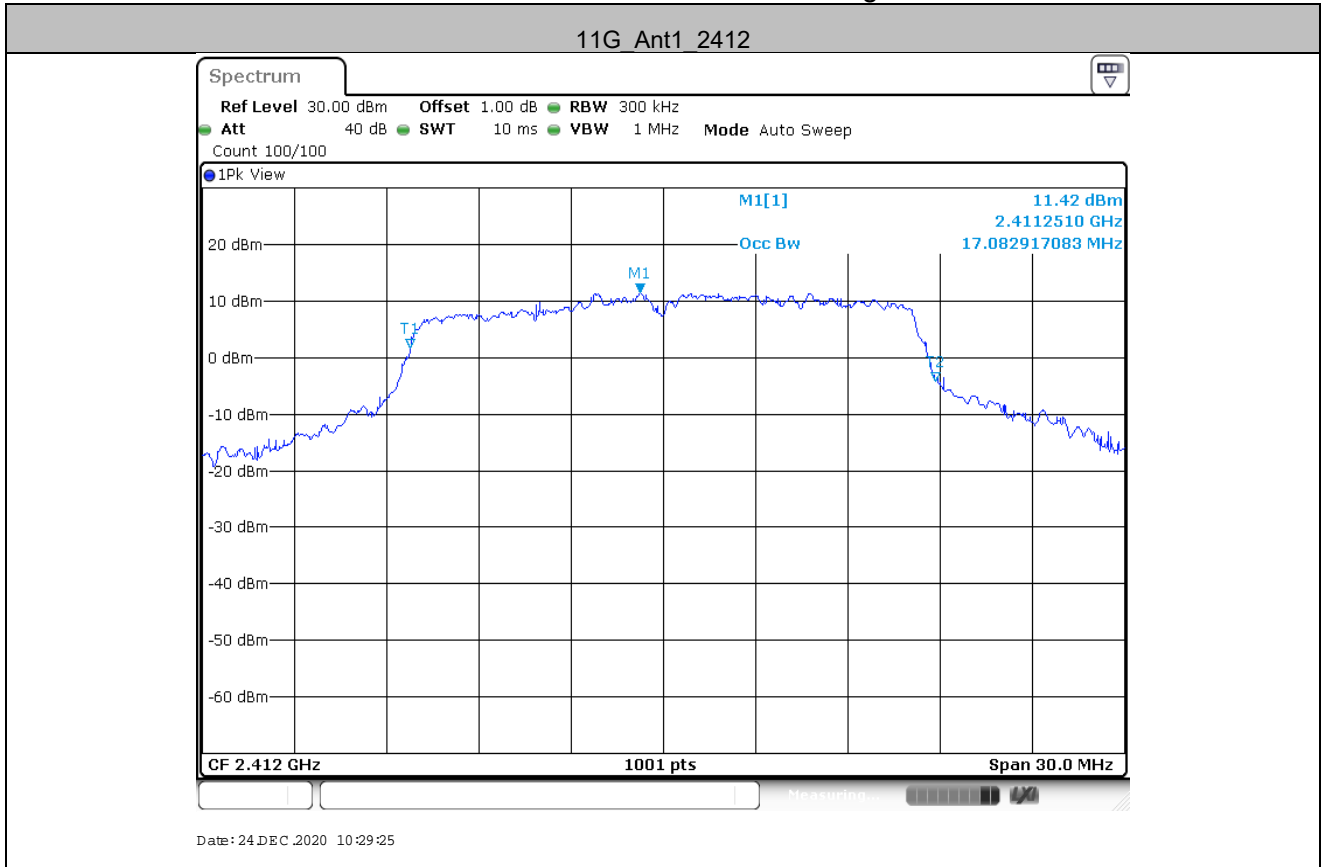
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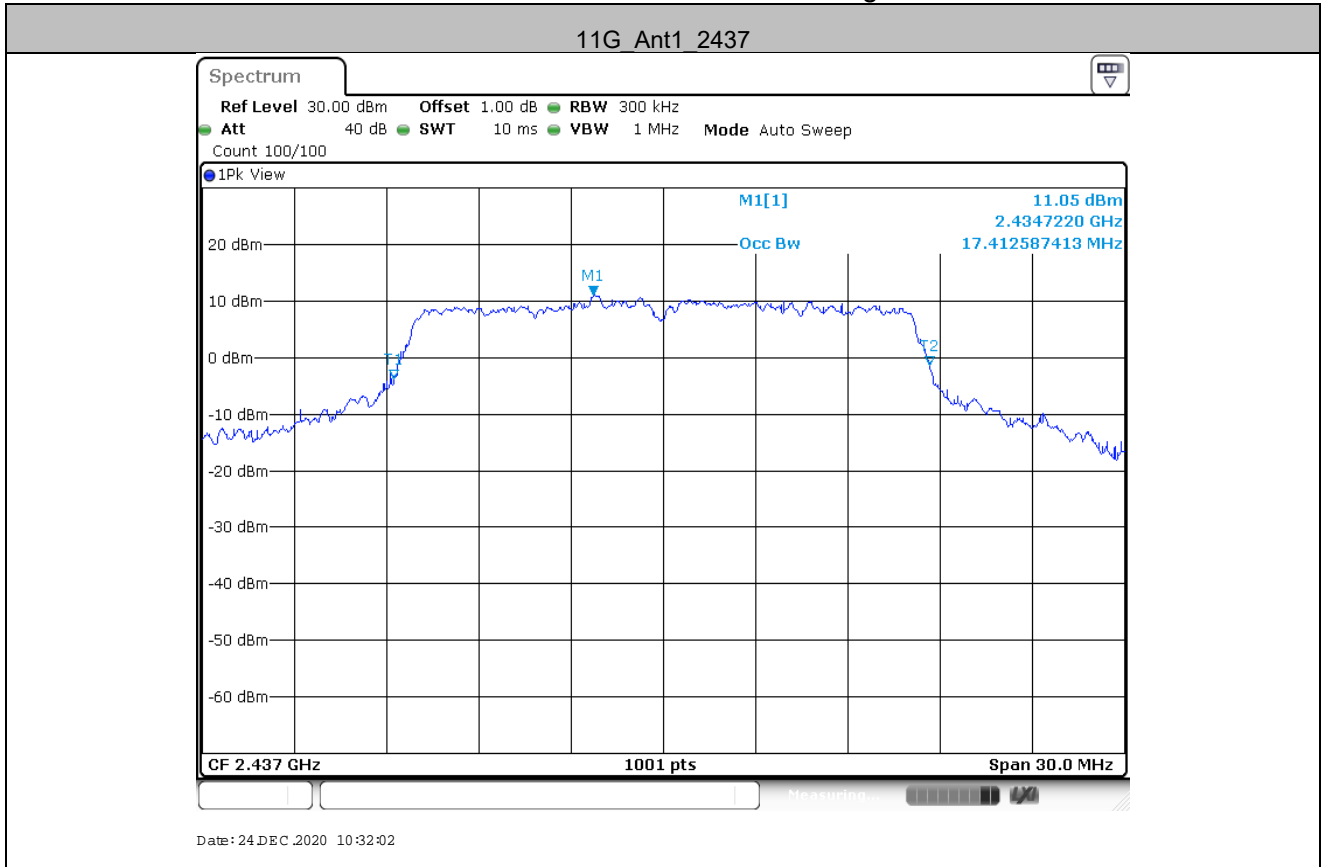




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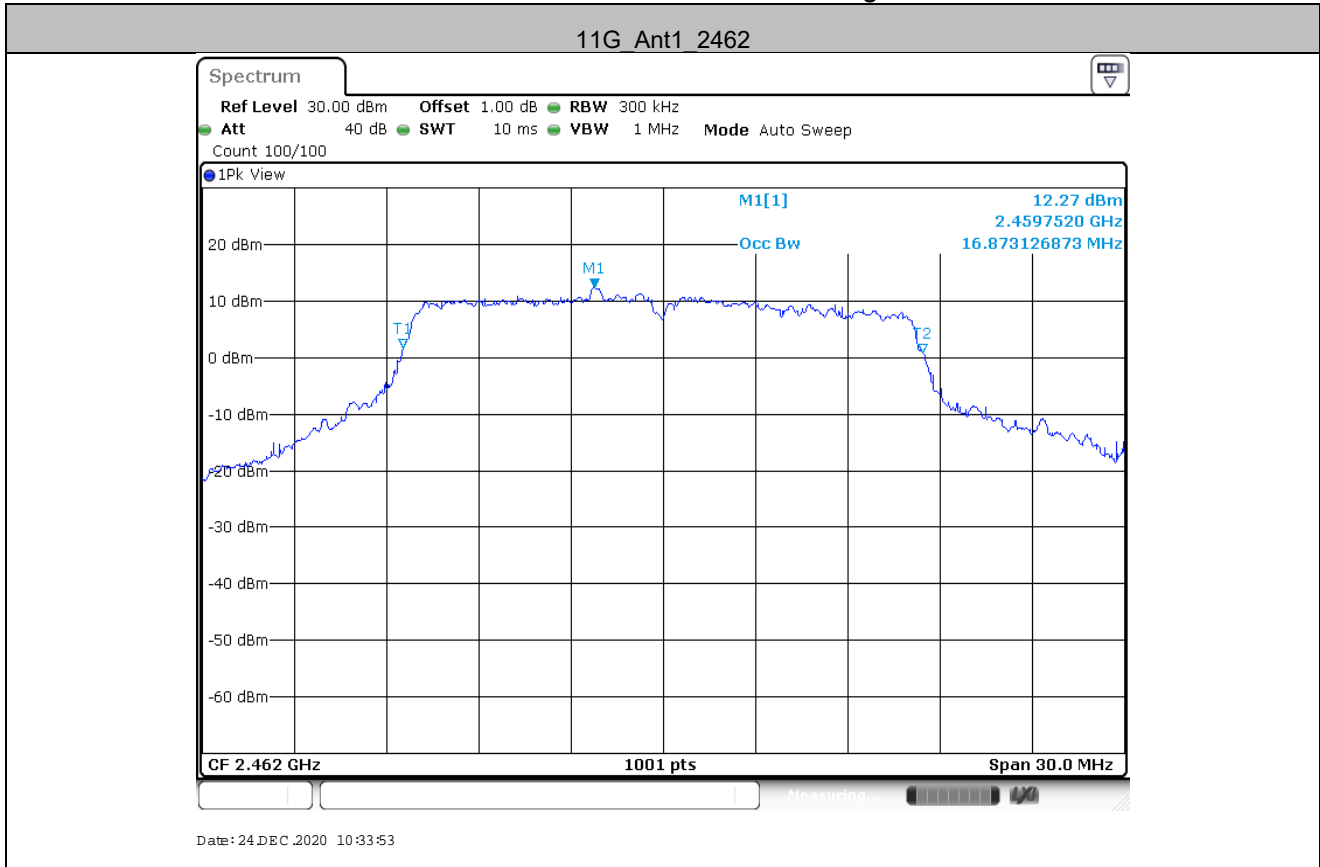


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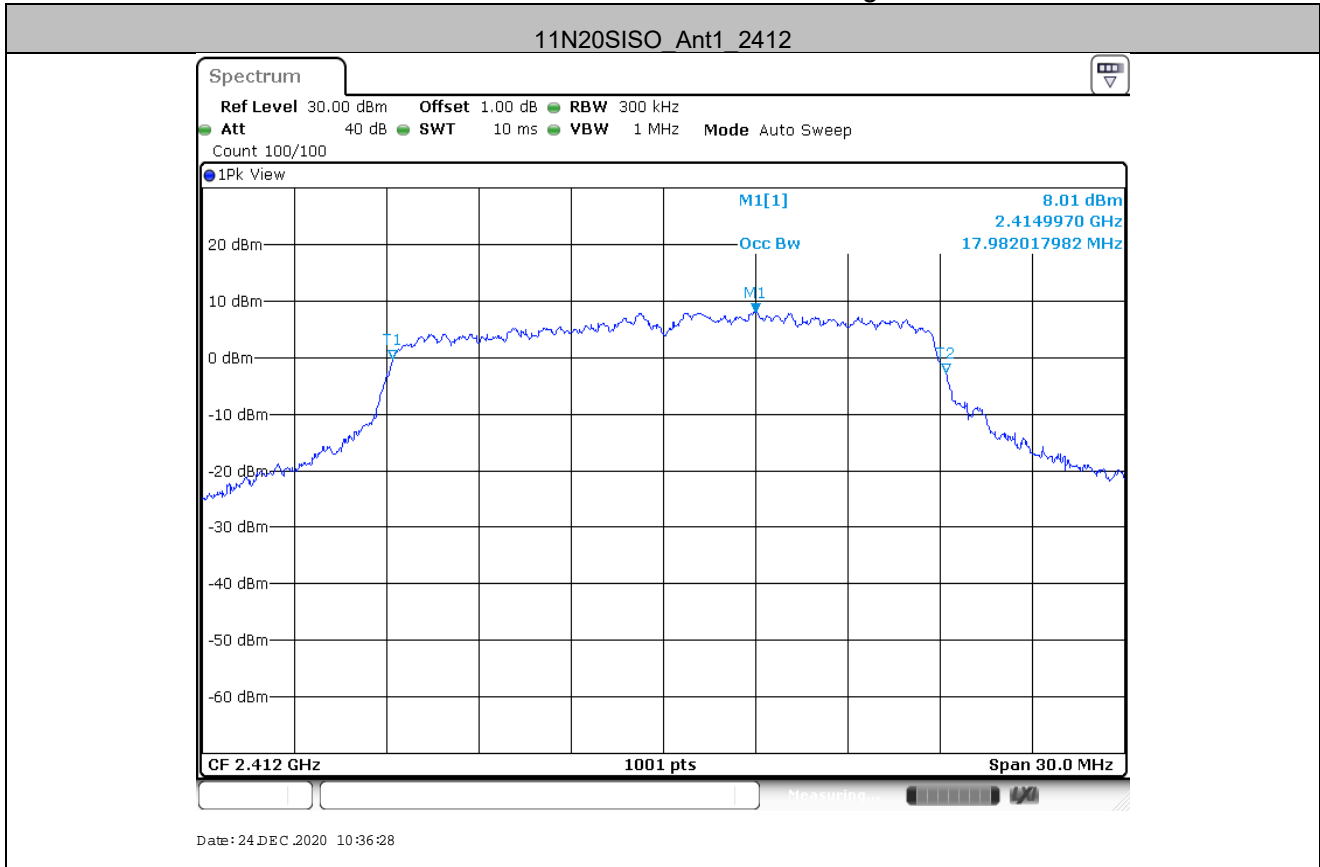
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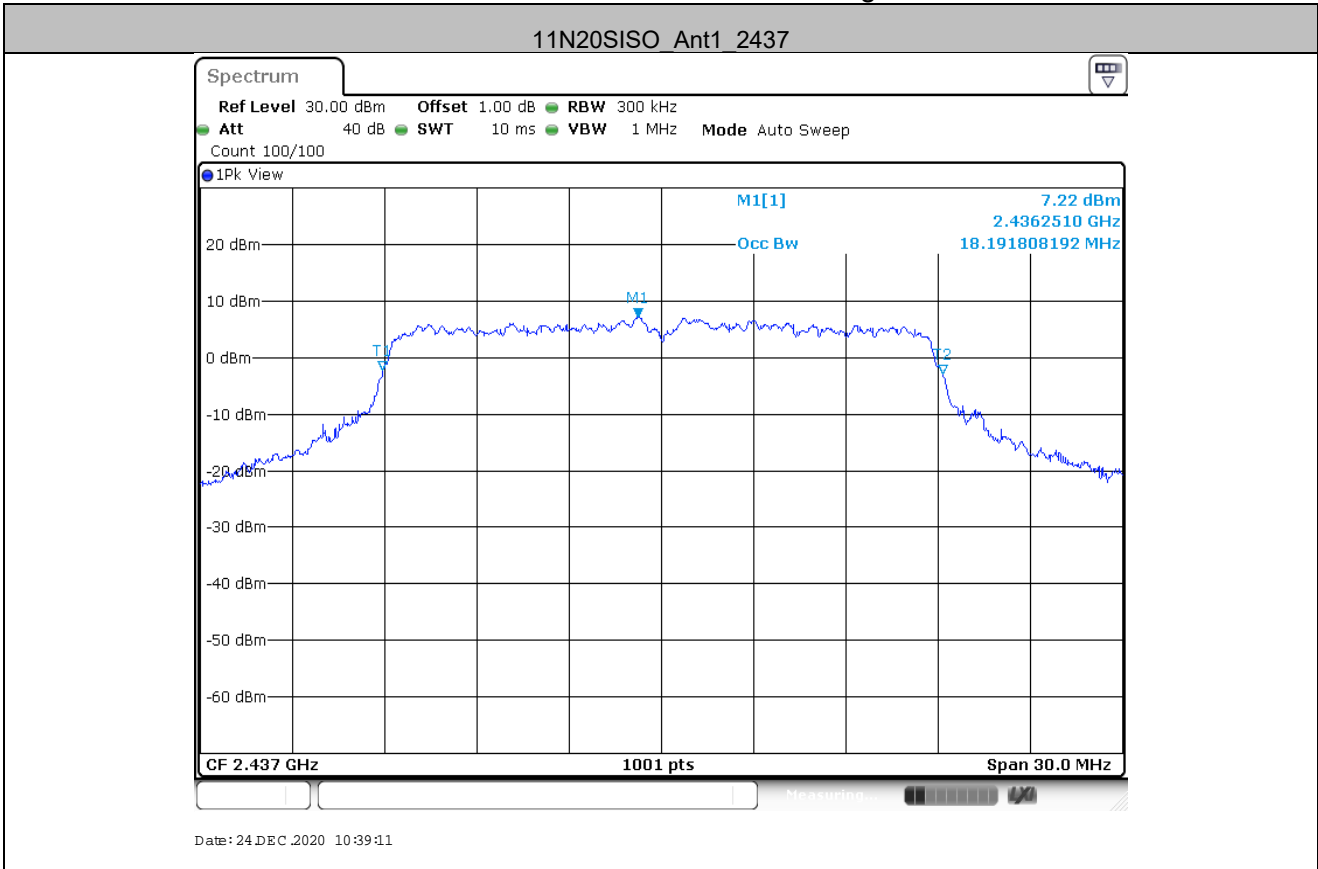
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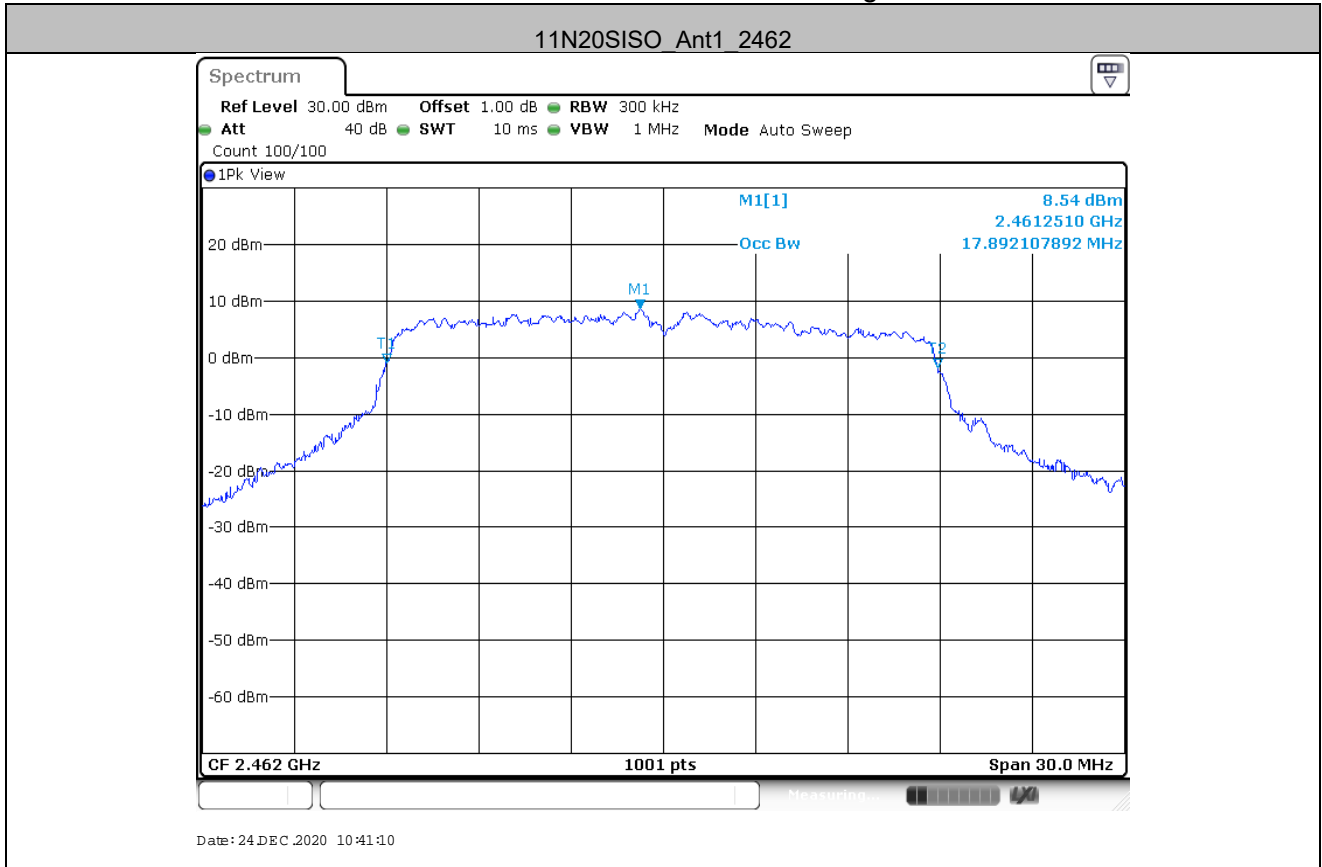


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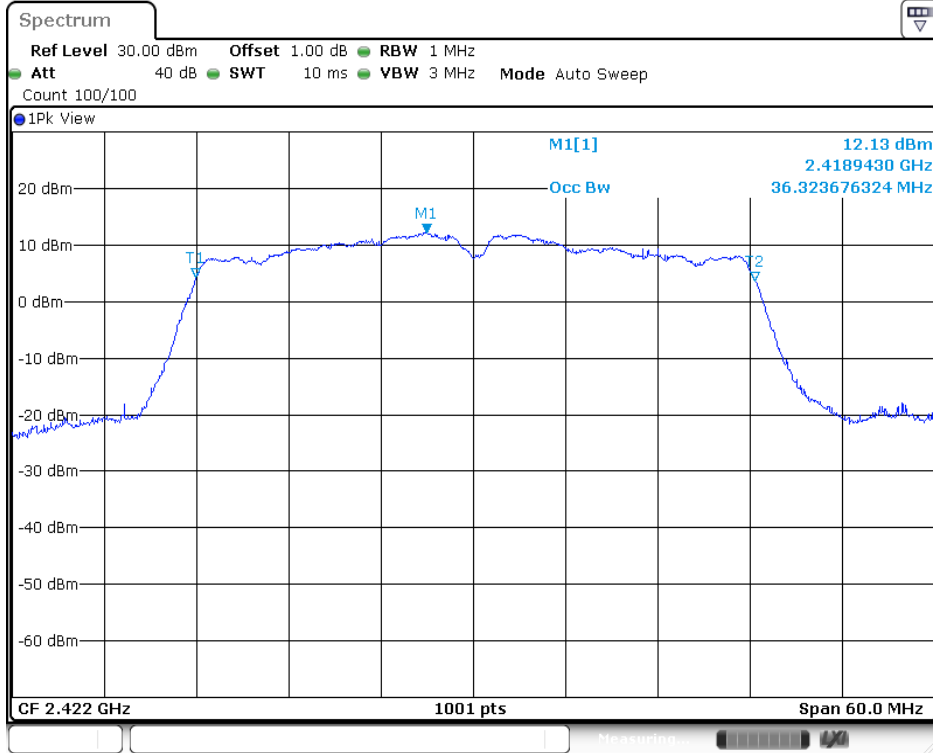


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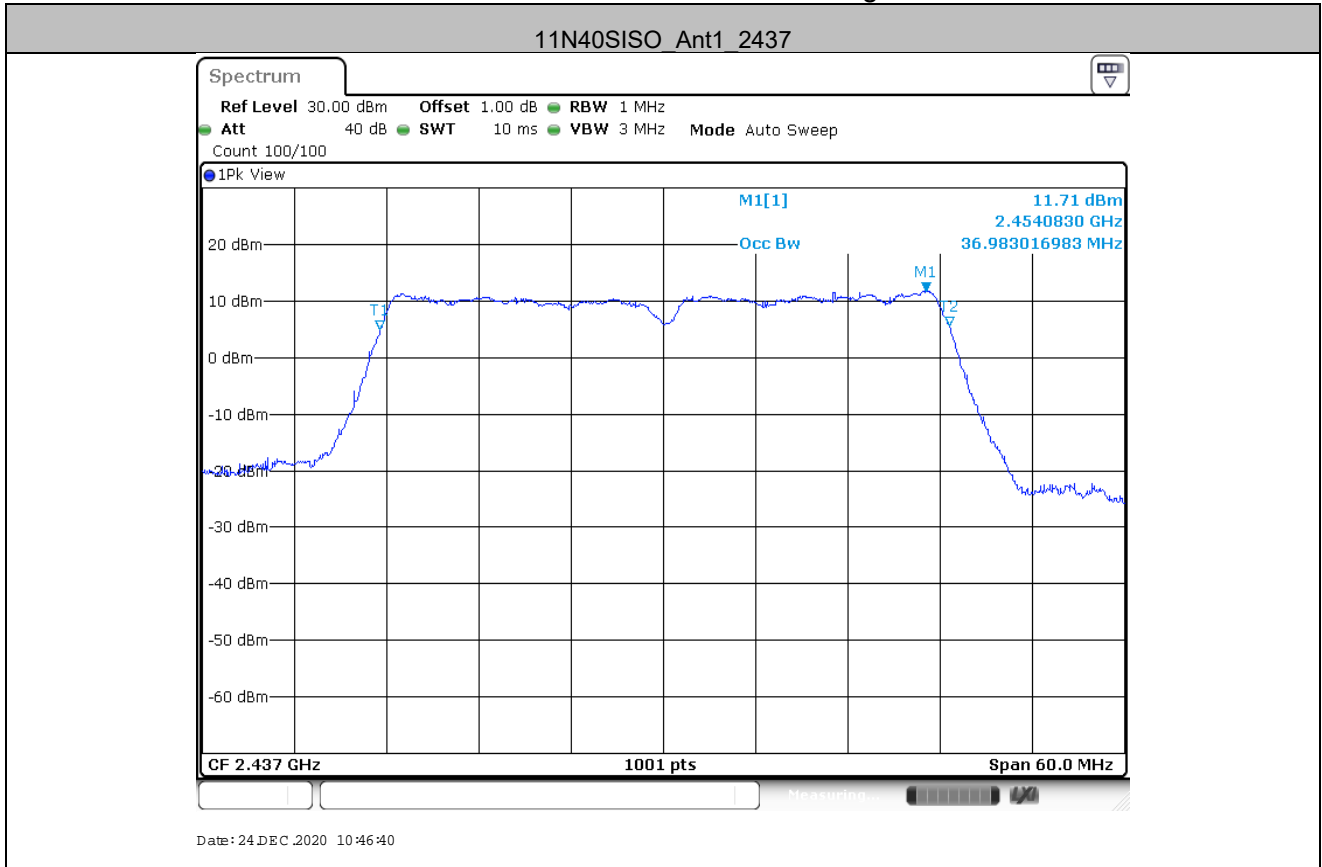


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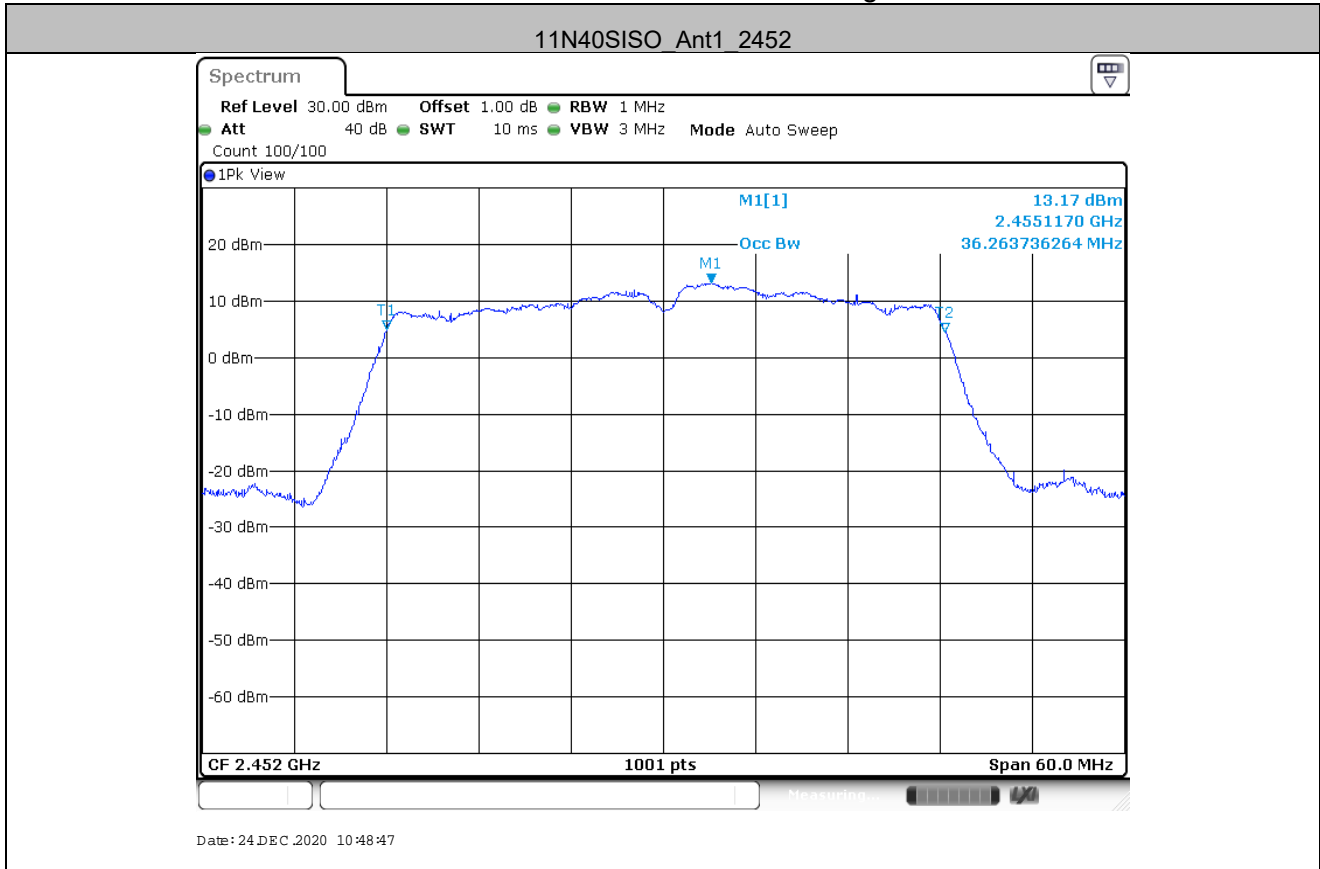


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**Maximum conducted output power**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.93	<=30	PASS
		2437	18.32	<=30	PASS
		2462	19.09	<=30	PASS
11G	Ant1	2412	19.18	<=30	PASS
		2437	18.66	<=30	PASS
		2462	19.22	<=30	PASS
11N20SISO	Ant1	2412	15.71	<=30	PASS
		2437	15.24	<=30	PASS
		2462	15.99	<=30	PASS
11N40SISO	Ant1	2422	16.24	<=30	PASS
		2437	16.78	<=30	PASS
		2452	16.73	<=30	PASS



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**Maximum power spectral density**  
**Test Result**

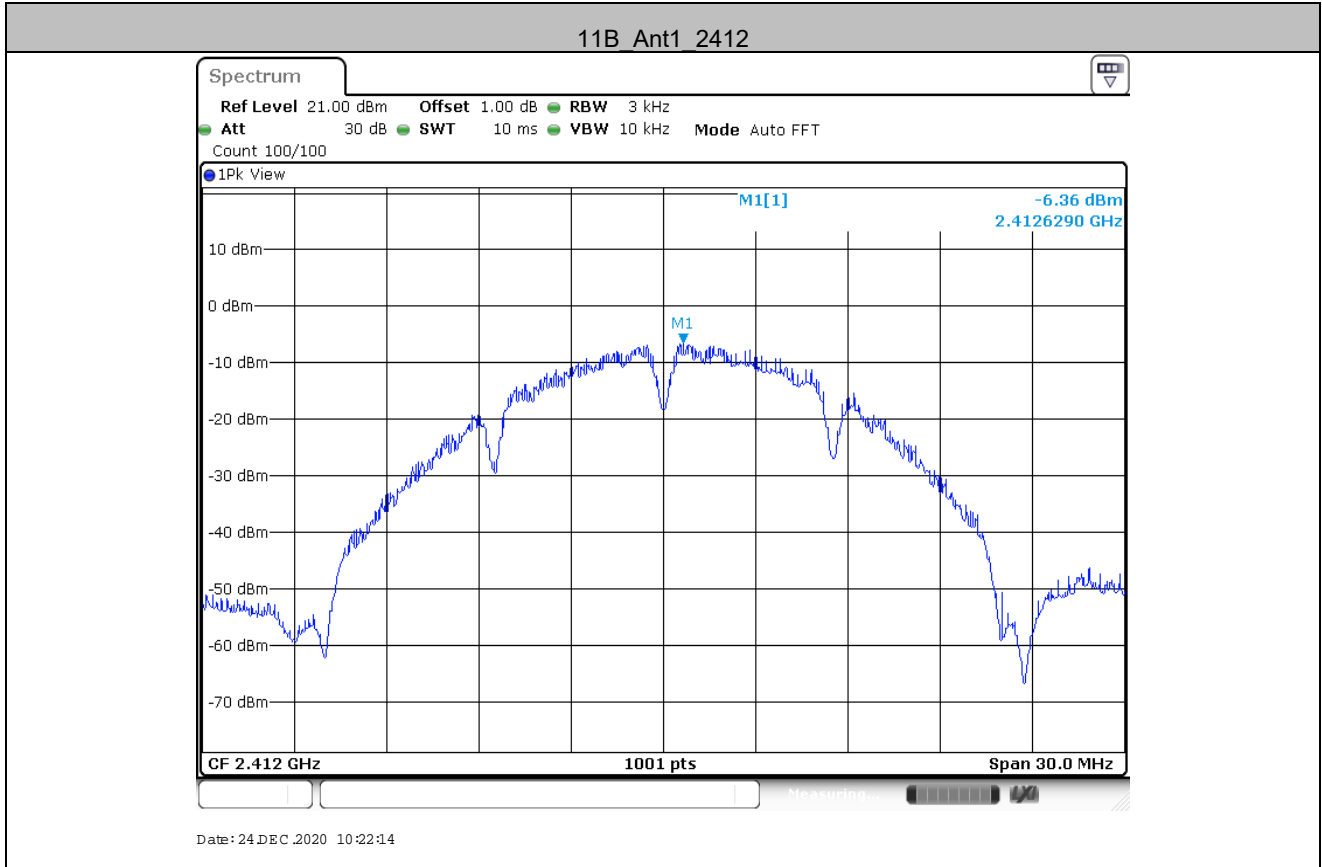
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.36	<=8	PASS
		2437	-5.87	<=8	PASS
		2462	-5.96	<=8	PASS
11G	Ant1	2412	-6.29	<=8	PASS
		2437	-5.76	<=8	PASS
		2462	-6.36	<=8	PASS
11N20SISO	Ant1	2412	-9.17	<=8	PASS
		2437	-10.27	<=8	PASS
		2462	-8.85	<=8	PASS
11N40SISO	Ant1	2422	-10.68	<=8	PASS
		2437	-10.72	<=8	PASS
		2452	-10.63	<=8	PASS



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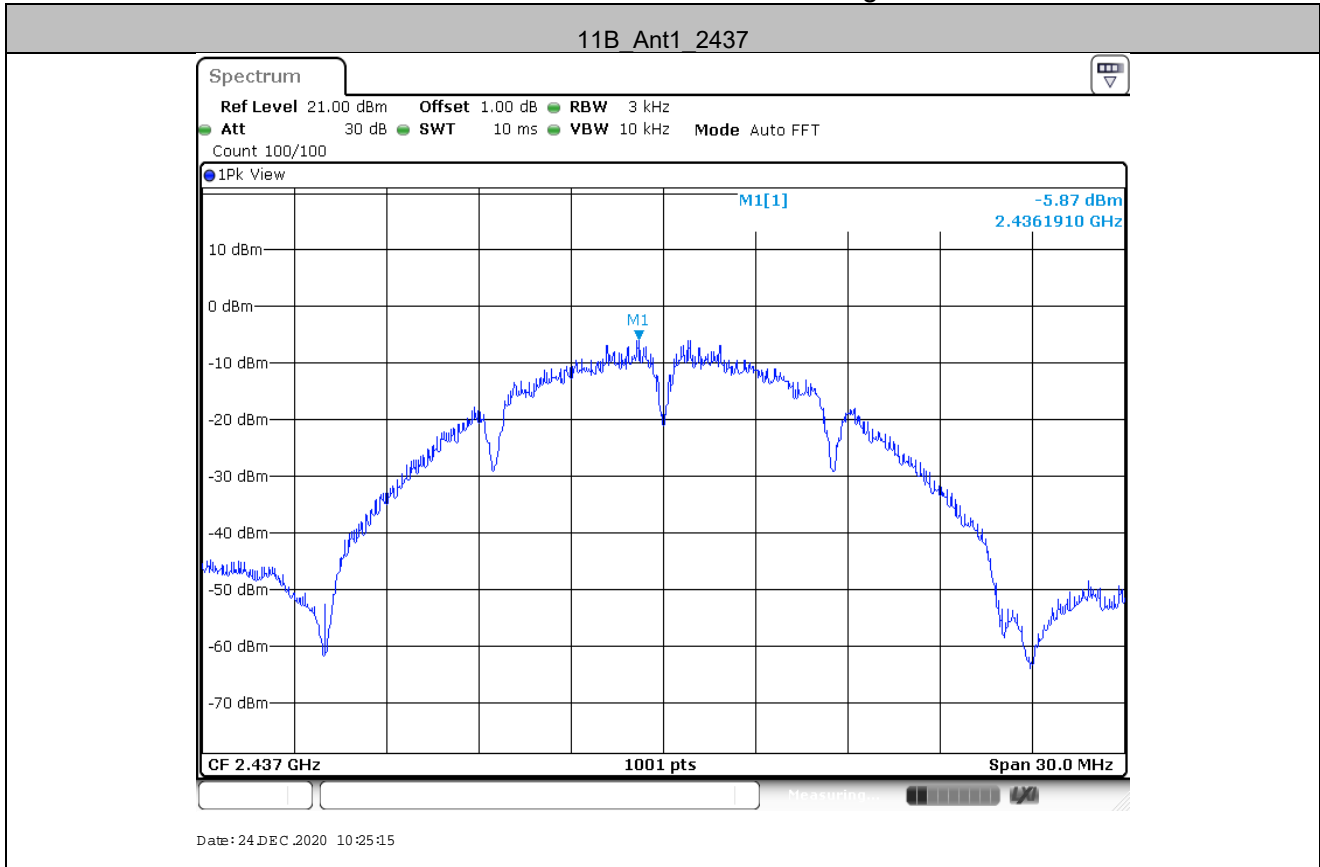


### Test Graphs

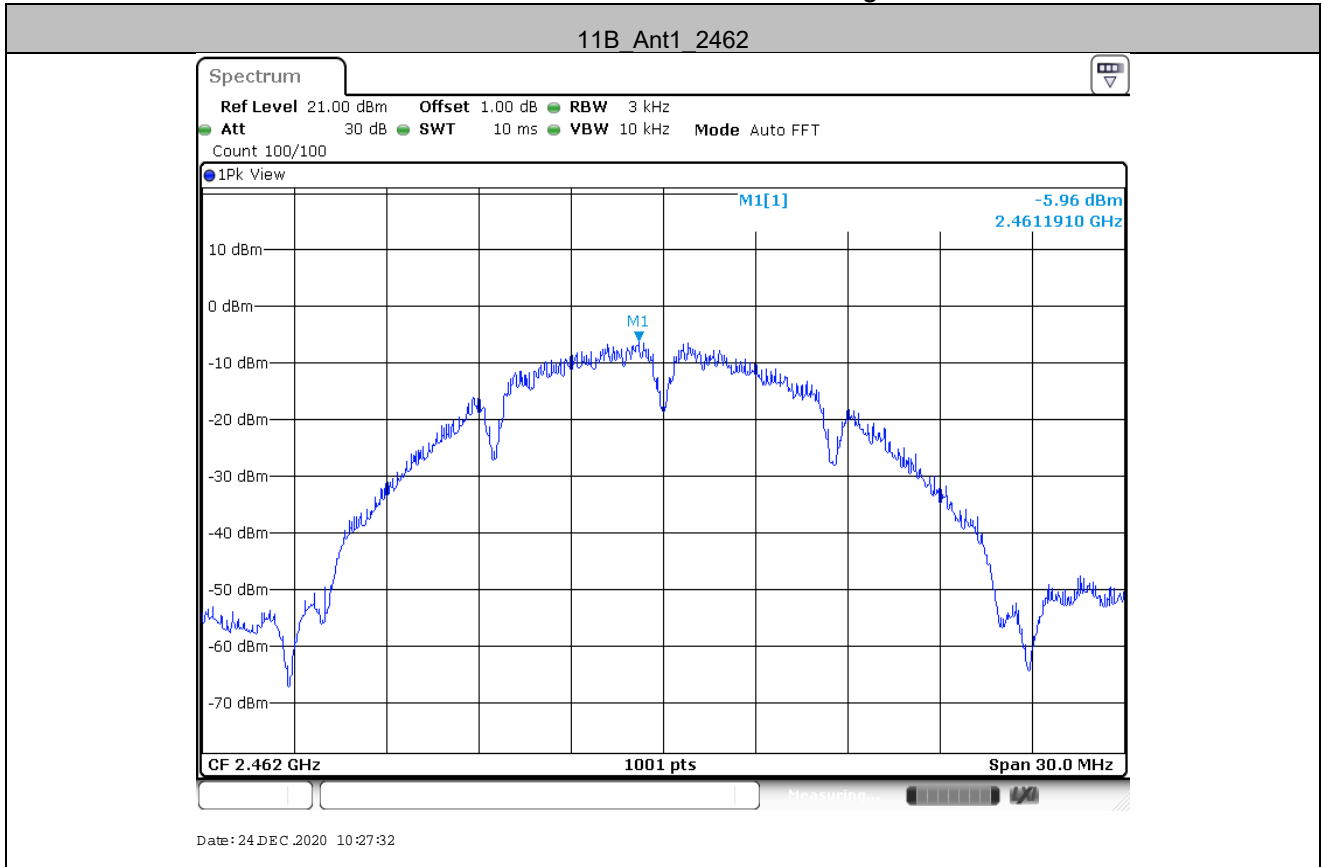


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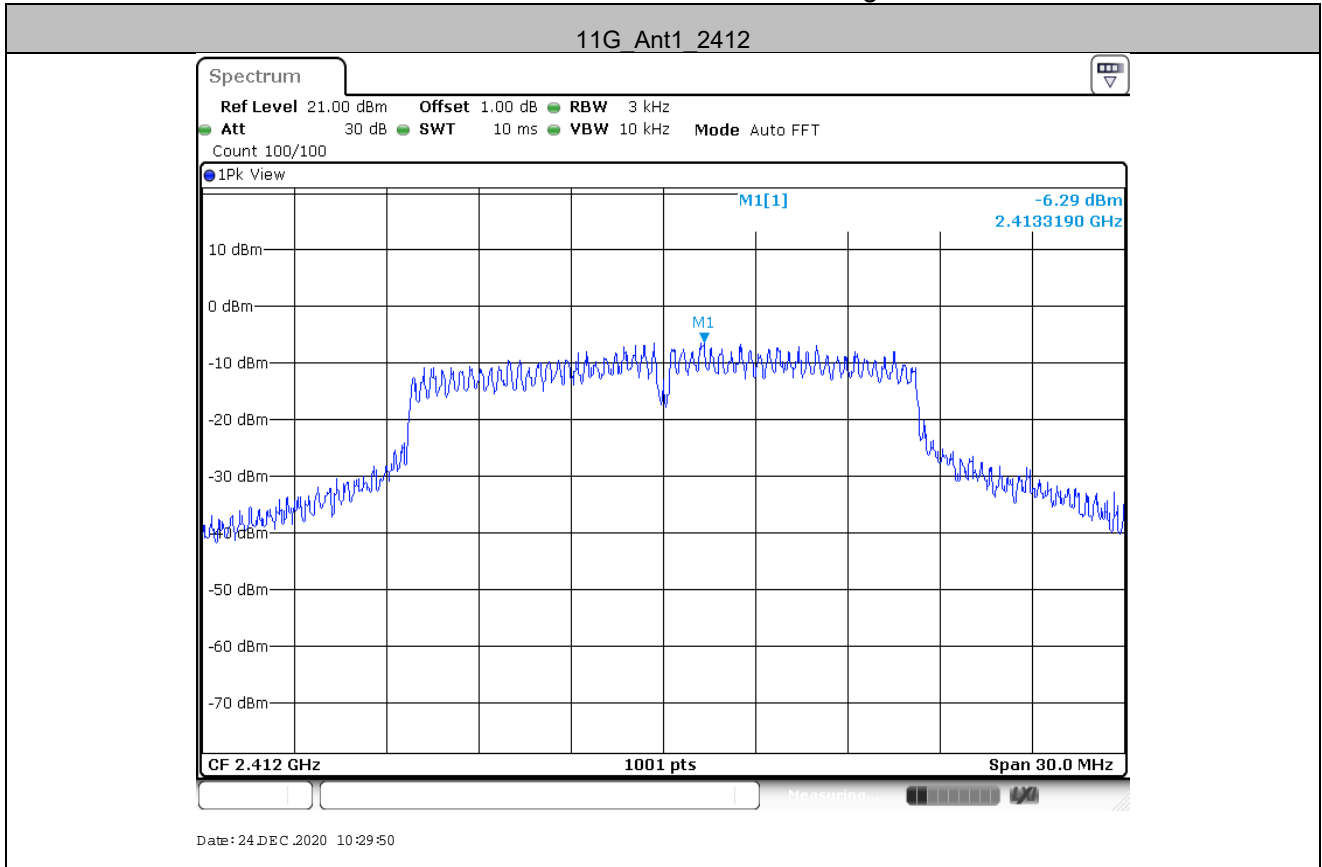


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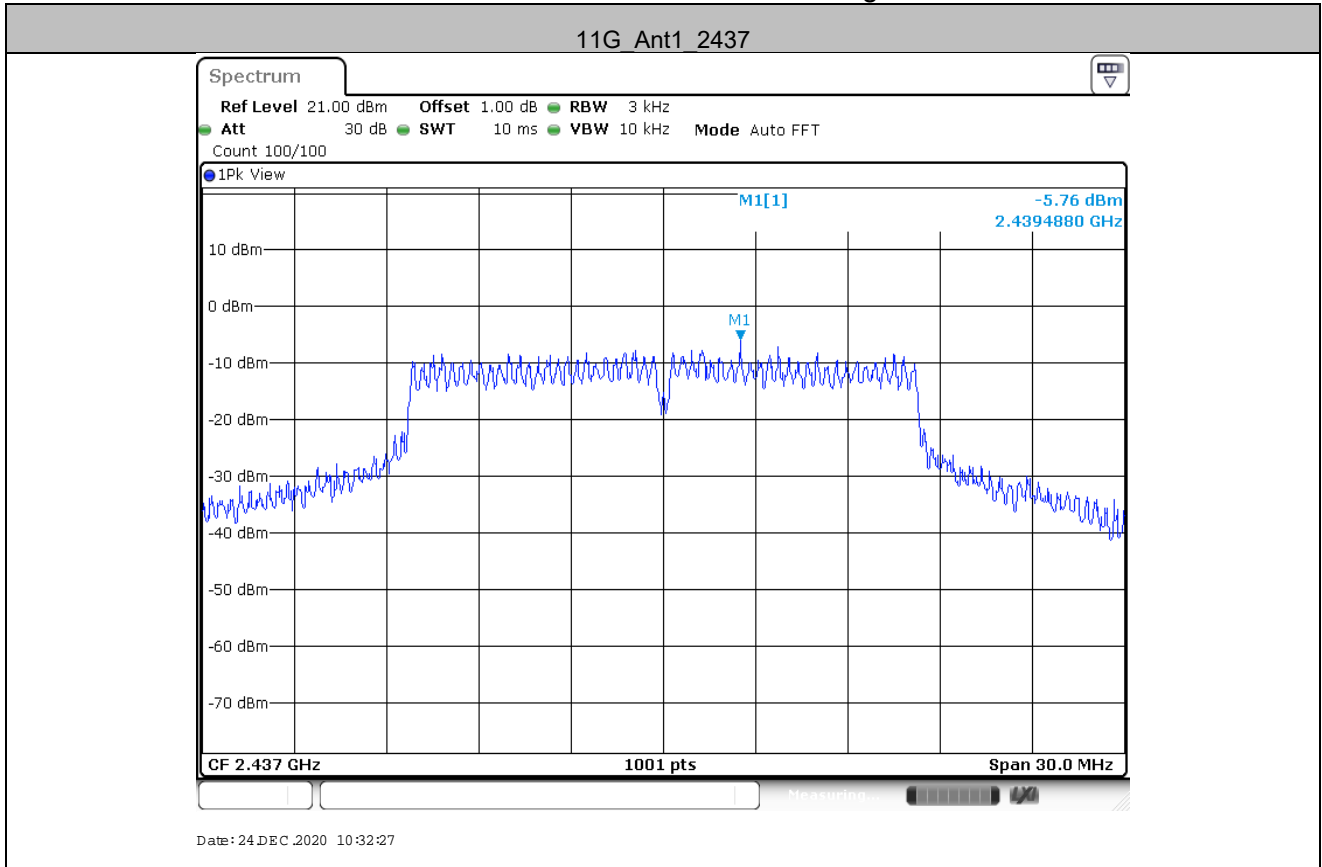
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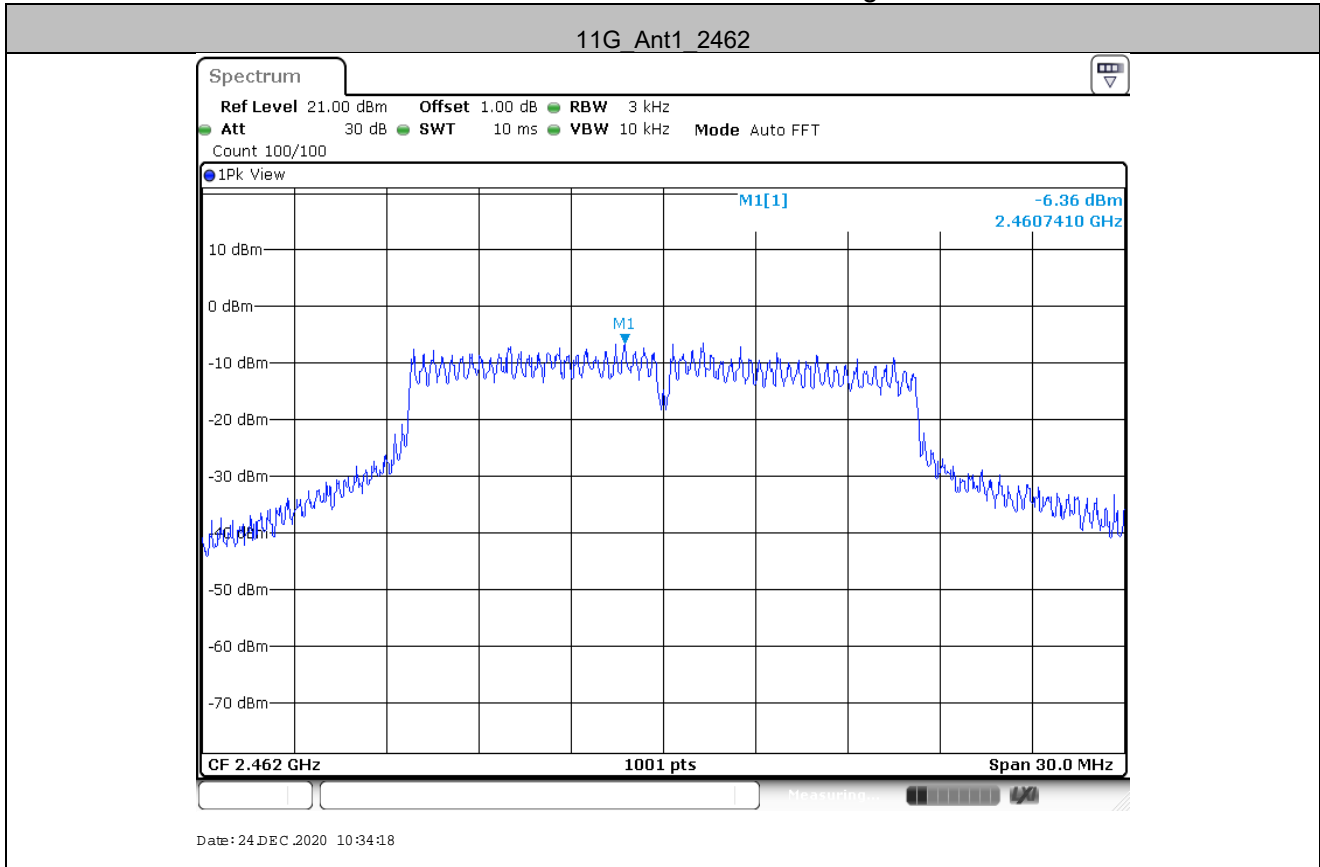
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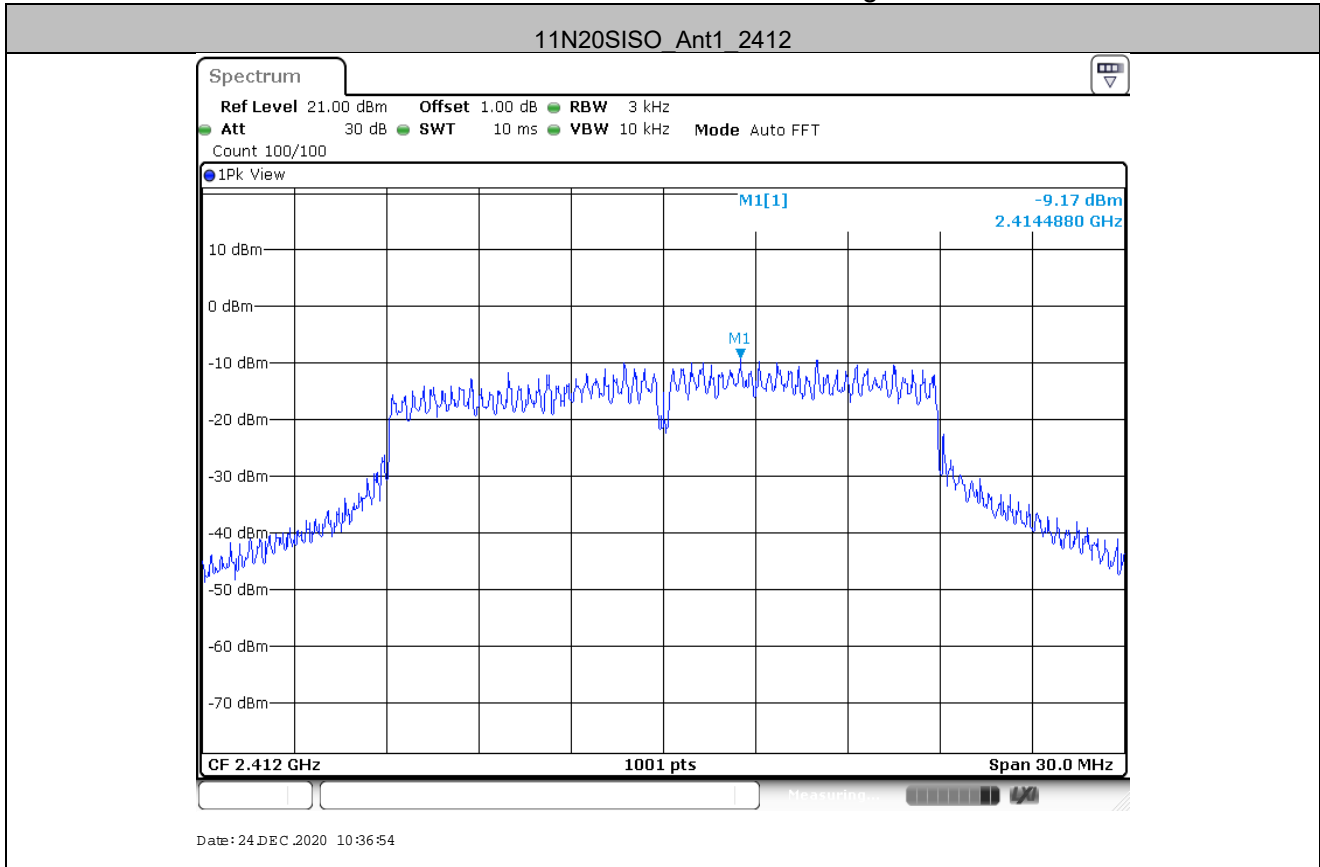
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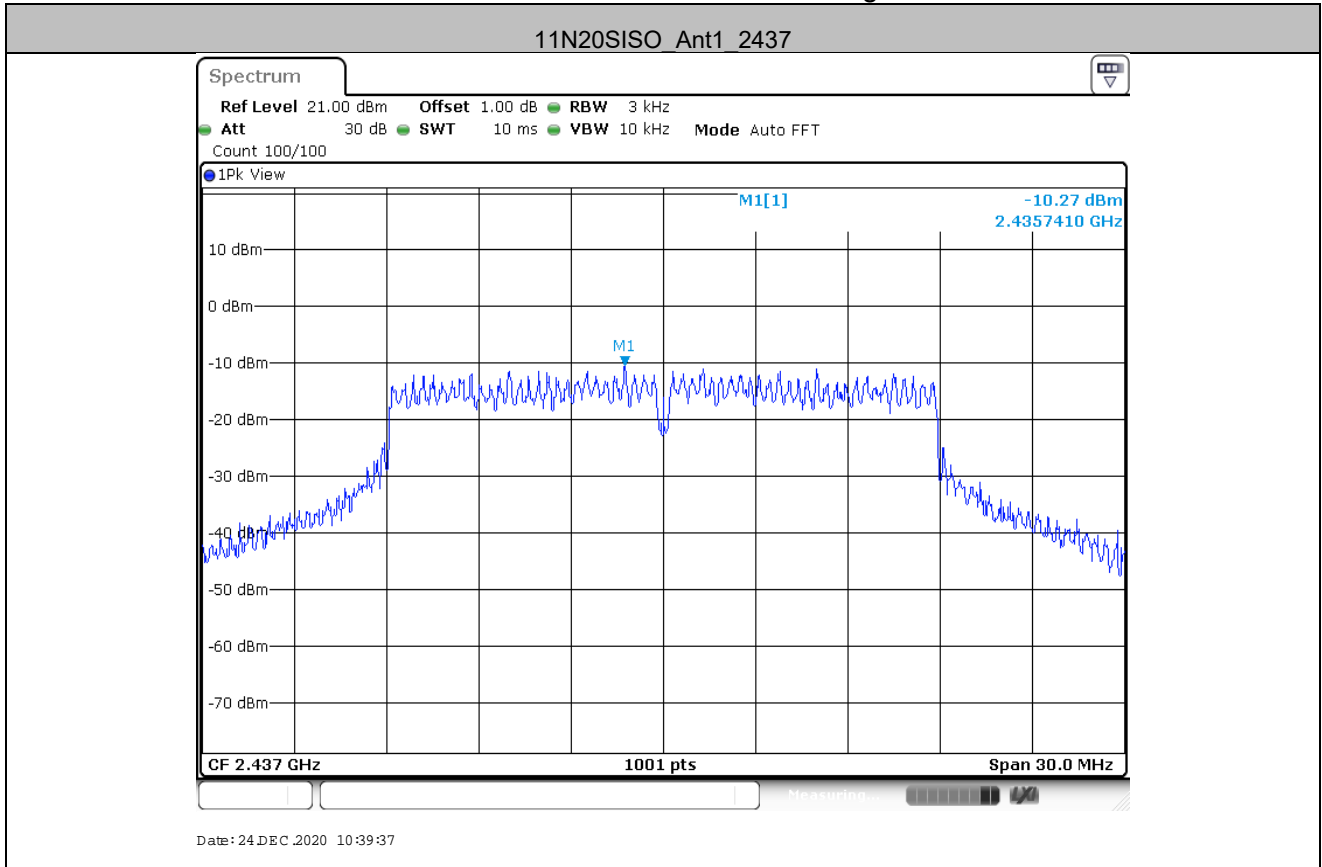


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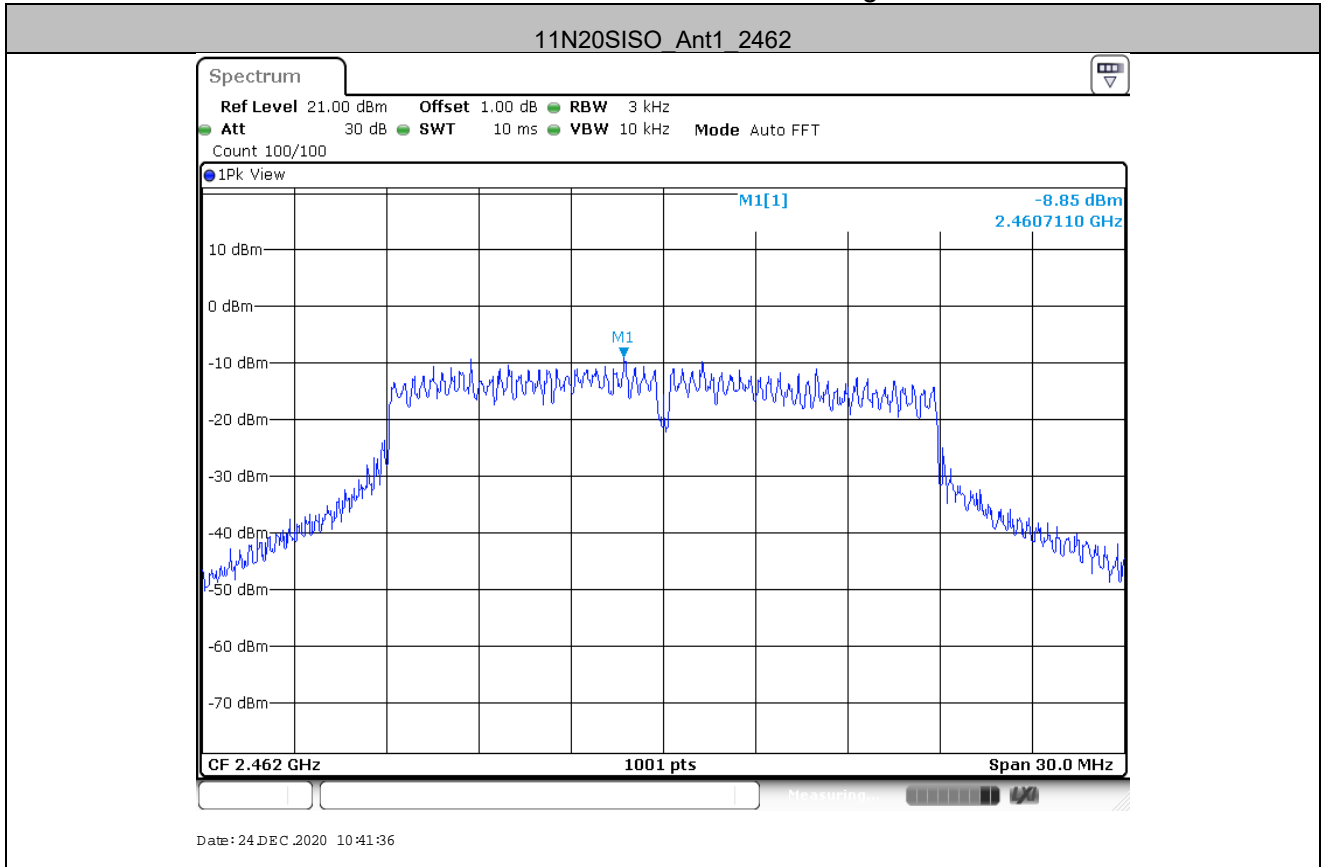


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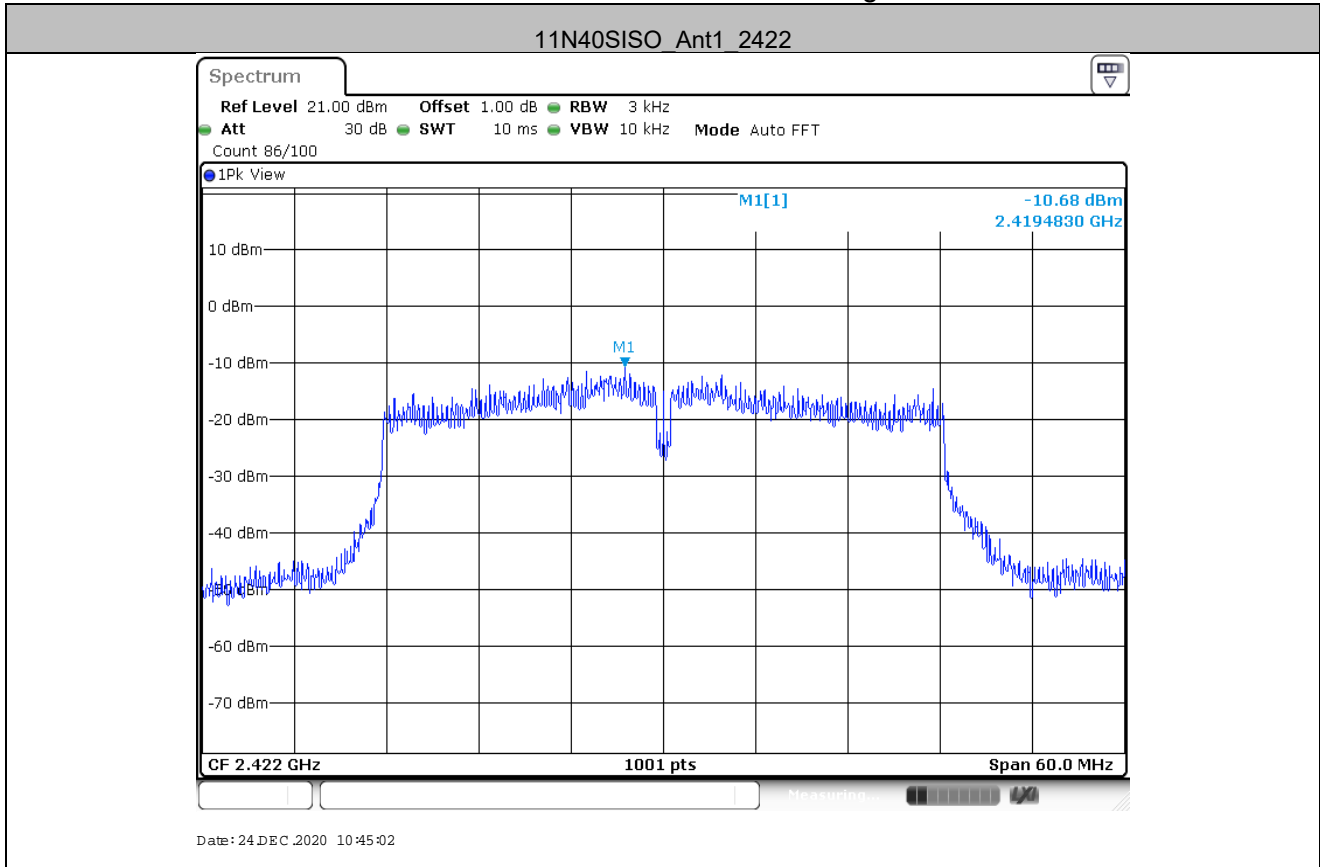
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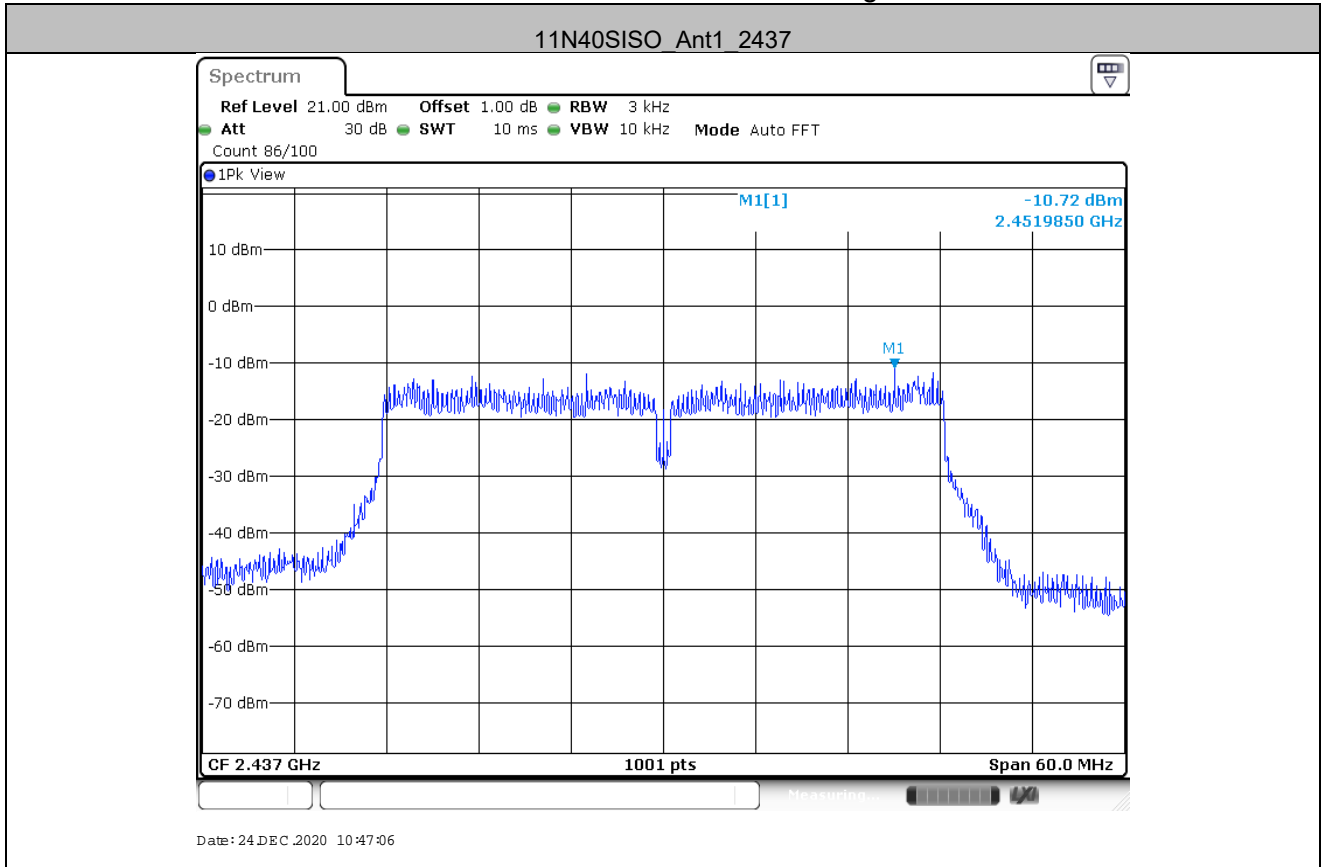


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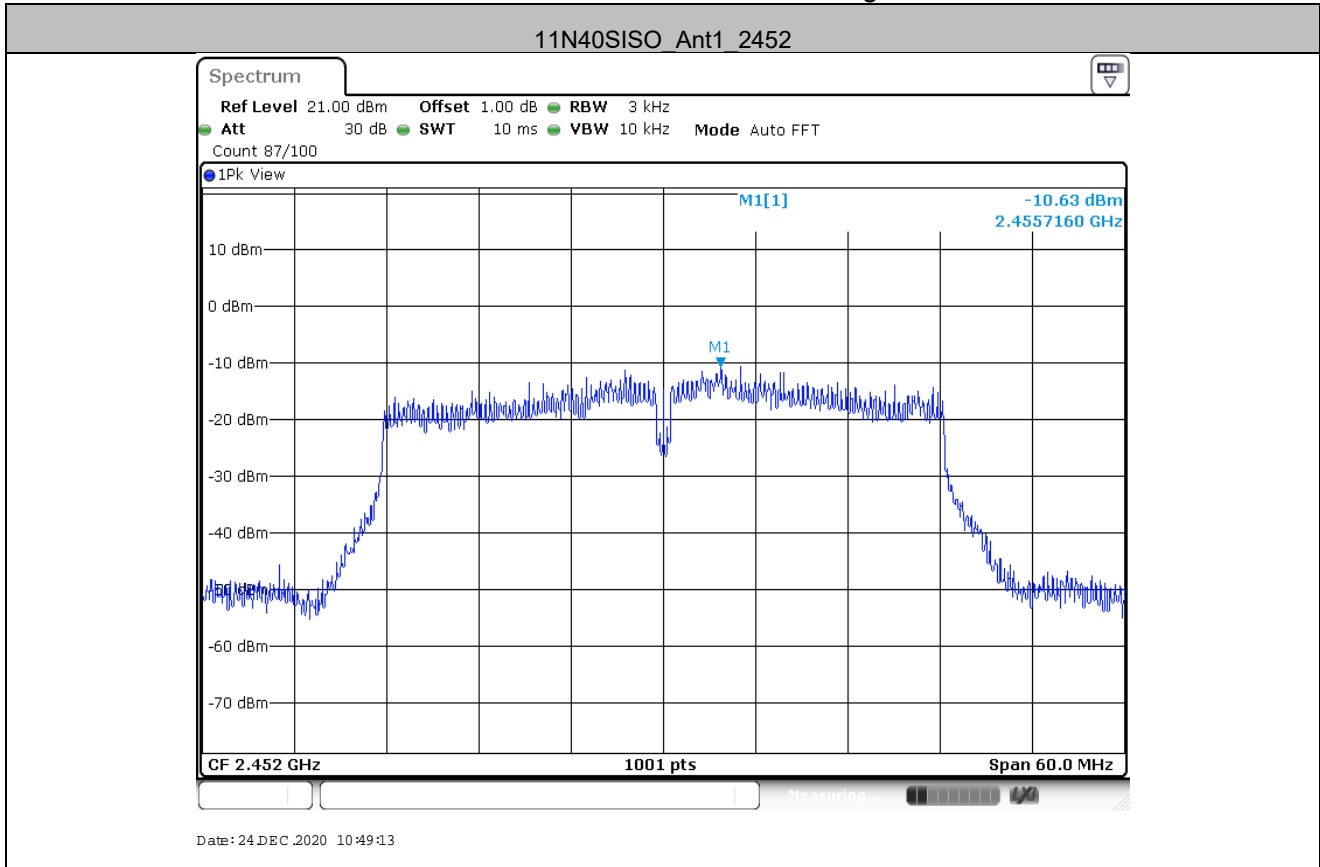
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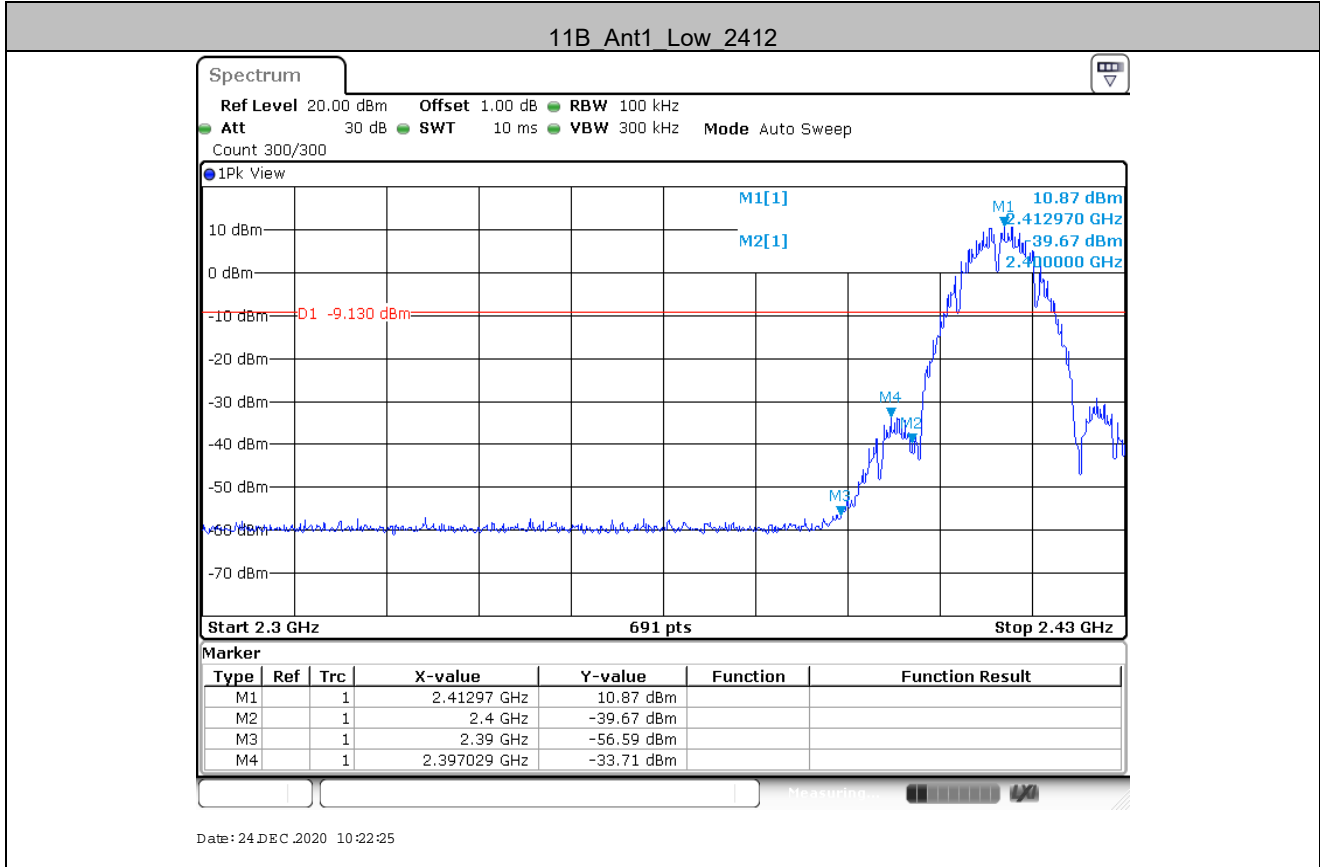
**Band edge measurements**  
**Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	10.87	-33.71	<=-9.13	PASS
		High	2462	10.99	-49.97	<=-9.01	PASS
11G	Ant1	Low	2412	9.72	-19.58	<=-10.28	PASS
		High	2462	9.58	-33.28	<=-10.42	PASS
11N20SISO	Ant1	Low	2412	6.34	-24.12	<=-13.66	PASS
		High	2462	5.91	-45.14	<=-14.09	PASS
11N40SISO	Ant1	Low	2422	4.30	-28.8	<=-15.7	PASS
		High	2452	4.85	-32.67	<=-15.15	PASS



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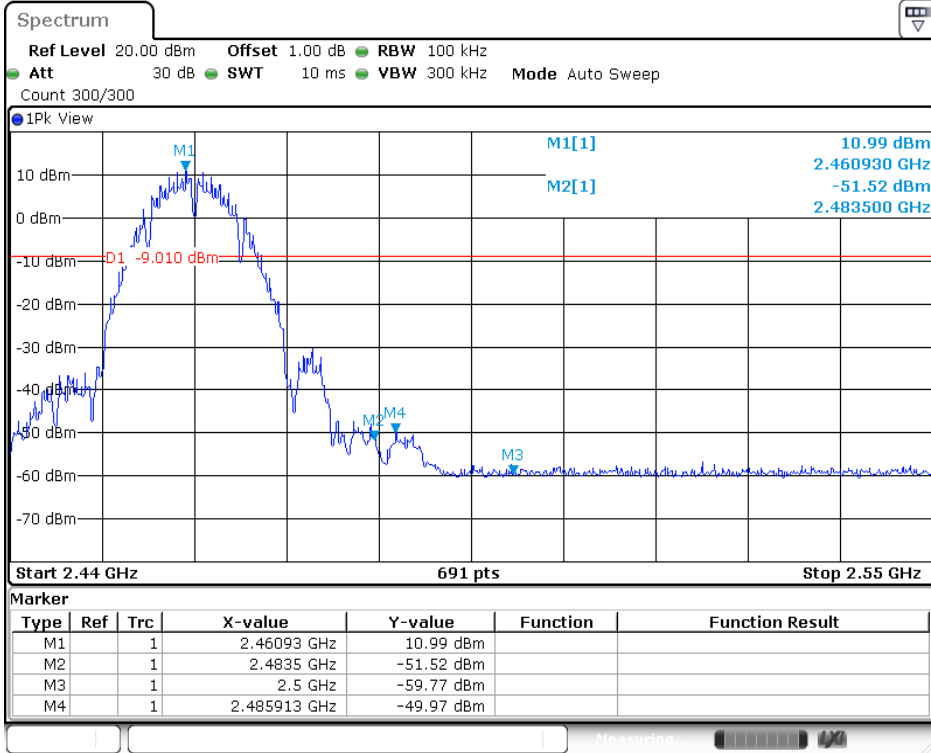
### Test Graphs



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### 11B Ant1 High 2462



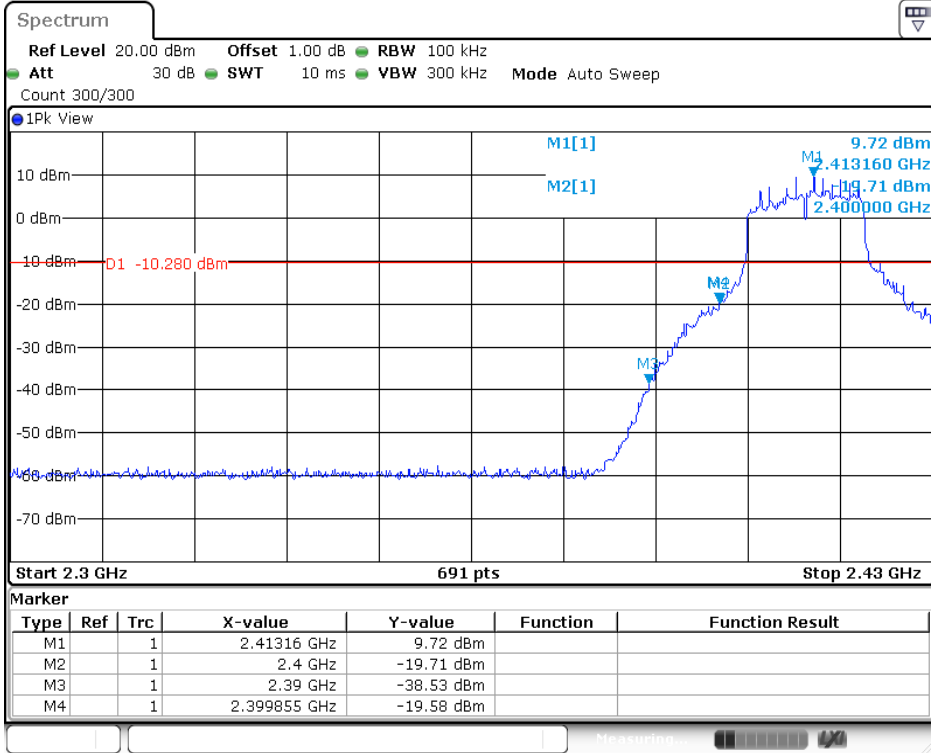
Date: 24 DEC. 2020 10:27:43



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### 11G Ant1 Low 2412



Date: 24 DEC. 2020 10:30:02

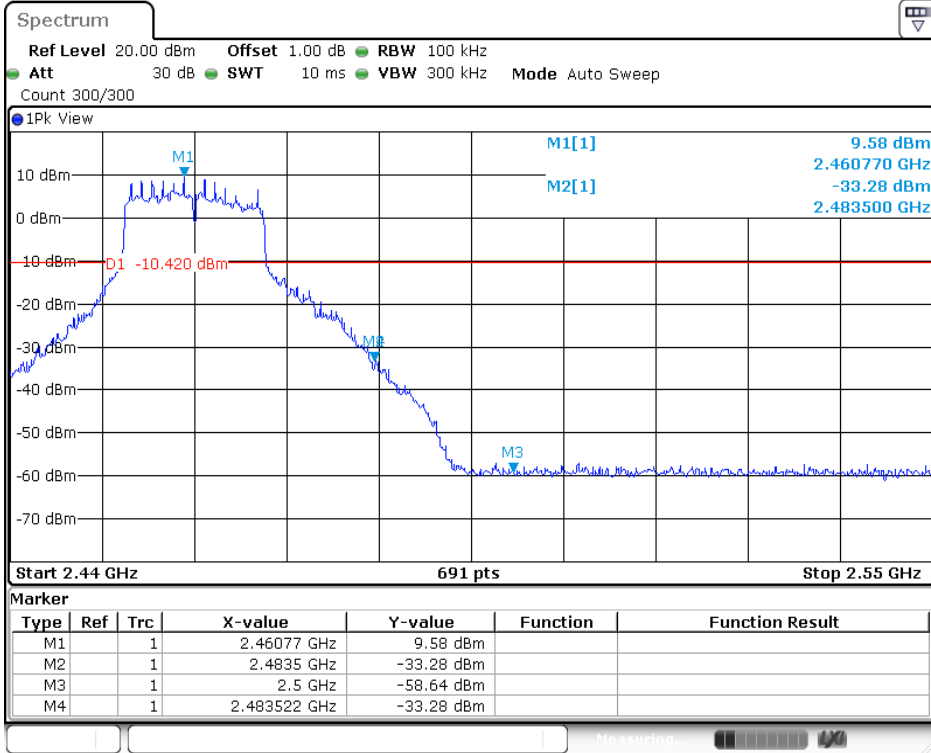


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### 11G Ant1 High 2462

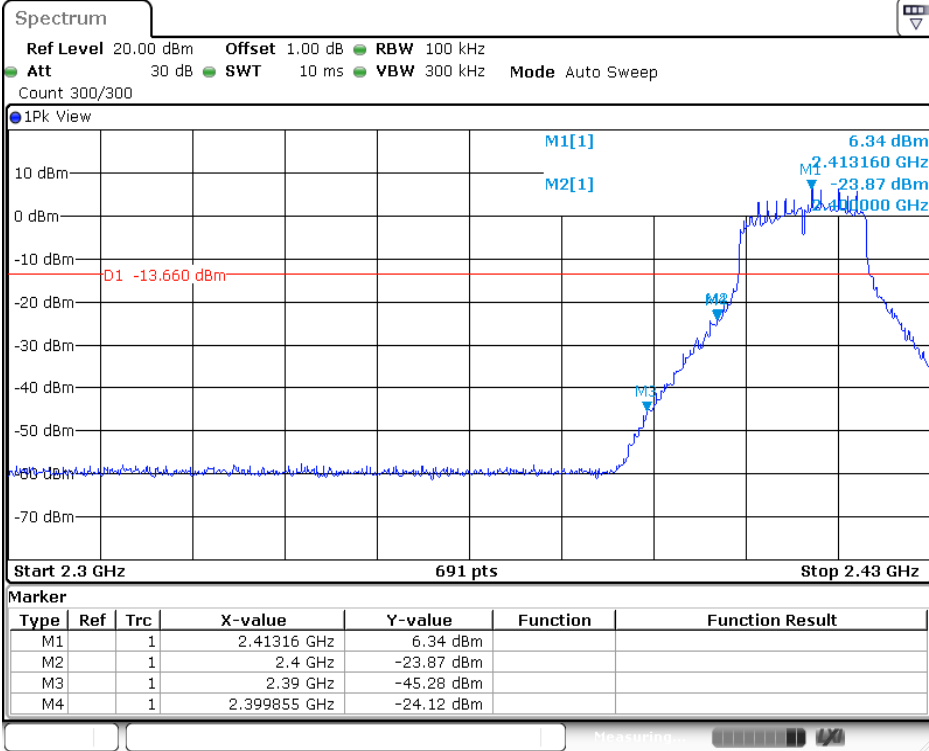


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11N20SISO Ant1 Low 2412



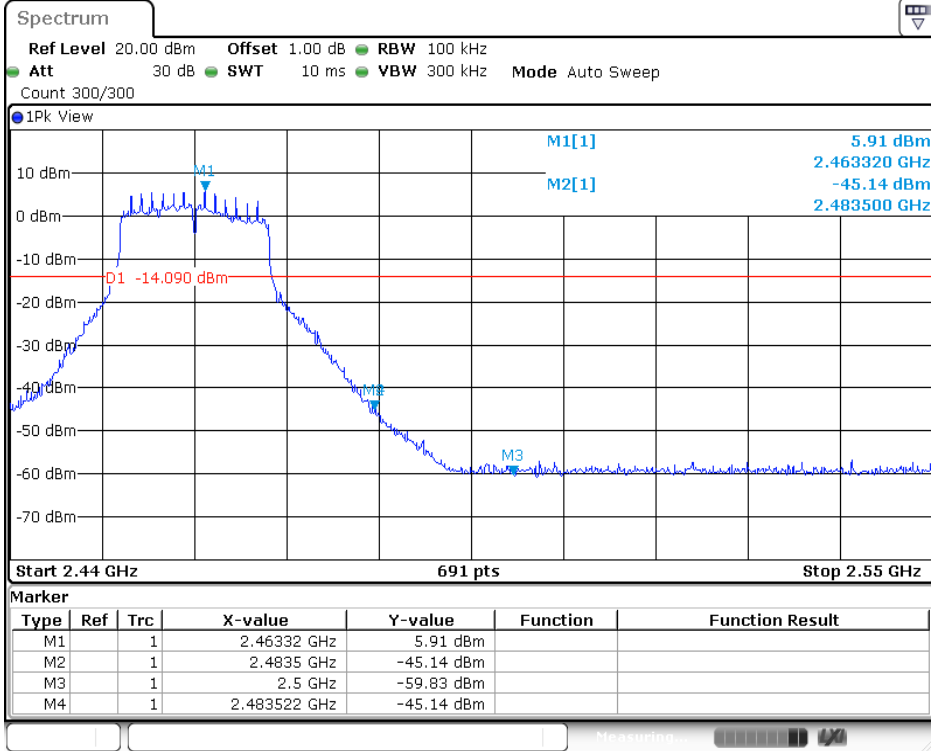
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### 11N20SISO Ant1 High 2462



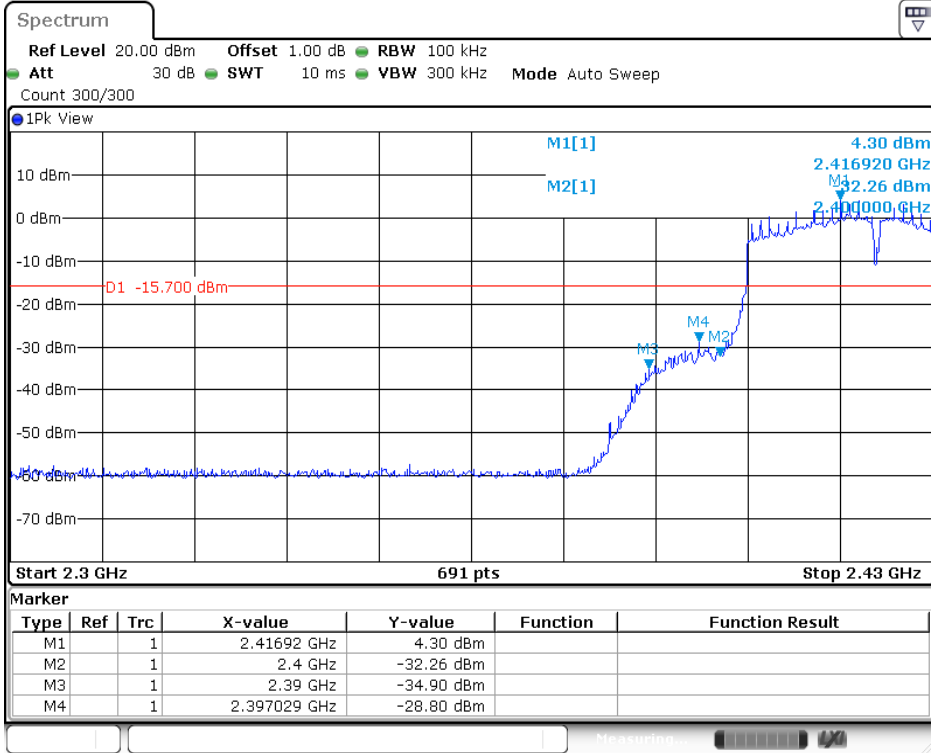
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11N40SISO Ant1 Low 2422



Date: 24 DEC. 2020 10:45:13

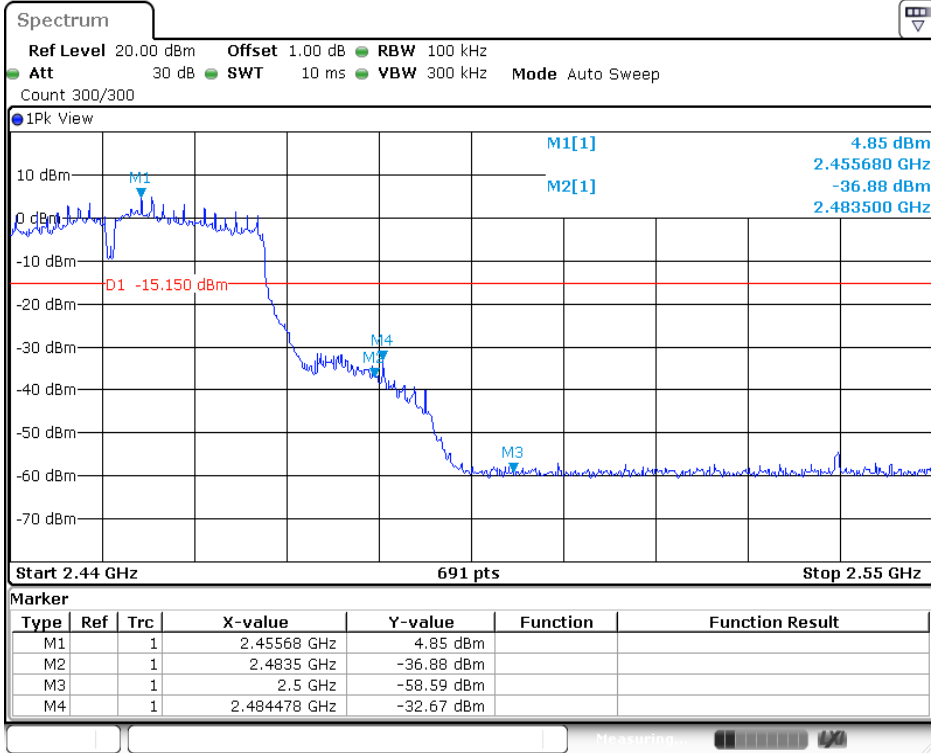


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### 11N40SISO Ant1 High 2452



Date: 24 DEC. 2020 10:49:24



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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	10.88	10.88	---	PASS
			30~1000	10.88	-45.23	<=-9.12	PASS
			1000~26500	10.88	-30.61	<=-9.12	PASS
		2437	Reference	9.92	9.92	---	PASS
			30~1000	9.92	-44.98	<=-10.08	PASS
			1000~26500	9.92	-30.67	<=-10.08	PASS
		2462	Reference	10.99	10.99	---	PASS
			30~1000	10.99	-45.4	<=-9.01	PASS
			1000~26500	10.99	-30.61	<=-9.01	PASS
11G	Ant1	2412	Reference	9.67	9.67	---	PASS
			30~1000	9.67	-43.98	<=-10.33	PASS
			1000~26500	9.67	-30.88	<=-10.33	PASS
		2437	Reference	8.28	8.28	---	PASS
			30~1000	8.28	-45.61	<=-11.72	PASS
			1000~26500	8.28	-31.2	<=-11.72	PASS
		2462	Reference	8.91	8.91	---	PASS
			30~1000	8.91	-45.76	<=-11.09	PASS
			1000~26500	8.91	-30.85	<=-11.09	PASS
11N20SISO	Ant1	2412	Reference	6.37	6.37	---	PASS
			30~1000	6.37	-44.6	<=-13.63	PASS
			1000~26500	6.37	-30.89	<=-13.63	PASS
		2437	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-45.2	<=-14.65	PASS
			1000~26500	5.35	-31.04	<=-14.65	PASS
11N40SISO	Ant1	2422	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-43.74	<=-15.7	PASS
			1000~26500	4.30	-31.04	<=-15.7	PASS
		2437	Reference	2.89	2.89	---	PASS



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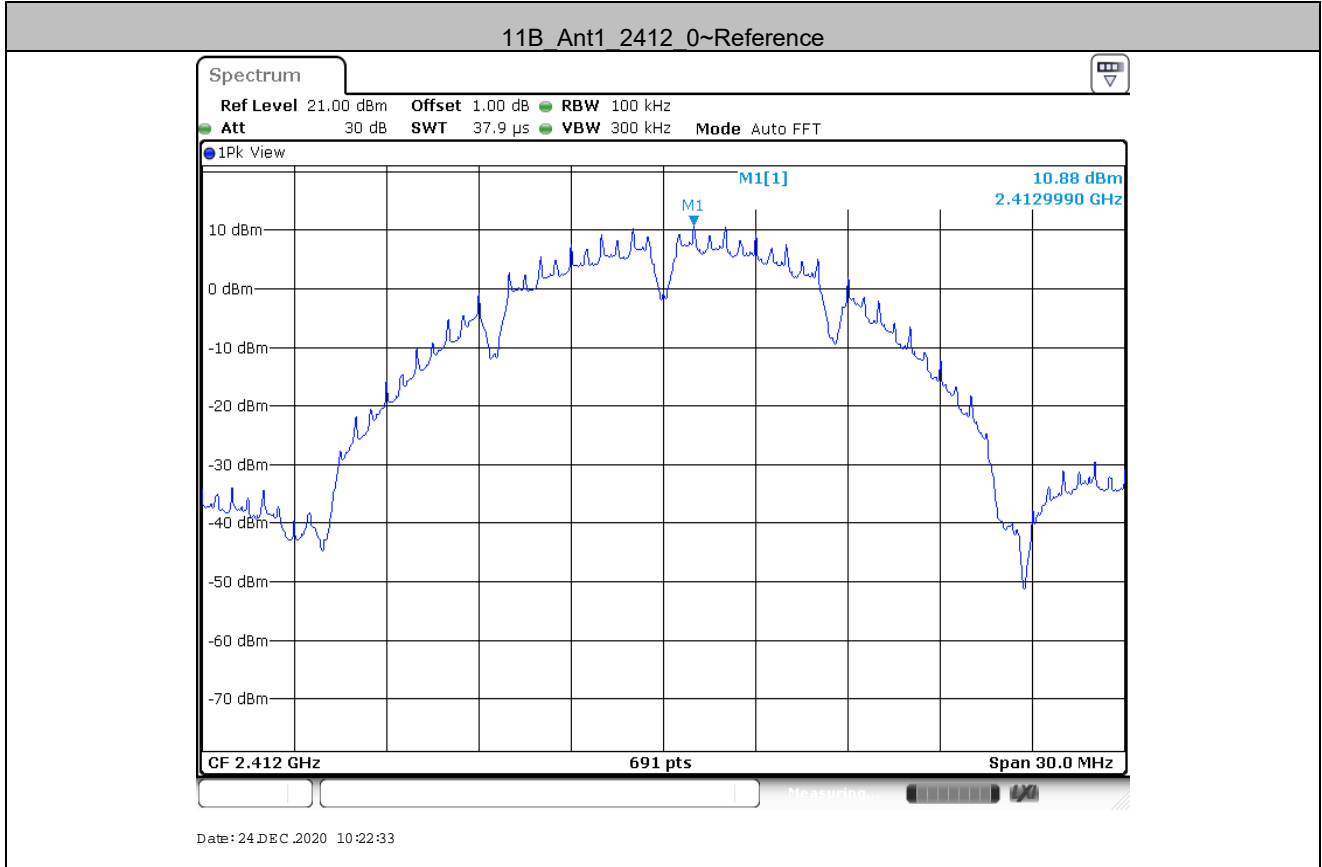
		2452	30~1000	2.89	-45.19	<=-17.11	PASS
			1000~26500	2.89	-30.72	<=-17.11	PASS
			Reference	3.59	3.59	---	PASS
			30~1000	3.59	-45.87	<=-16.41	PASS
			1000~26500	3.59	-31.02	<=-16.41	PASS



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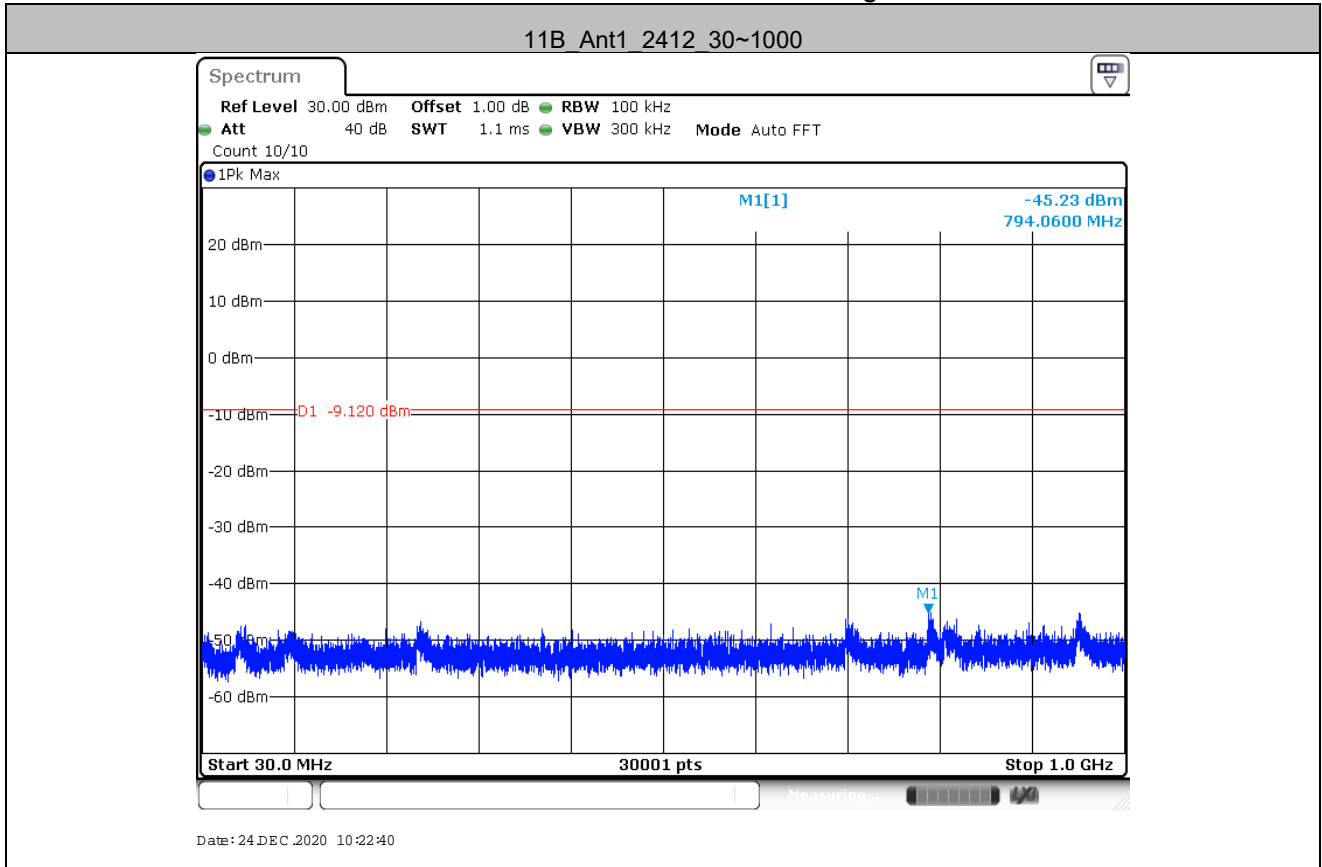
### Test Graphs



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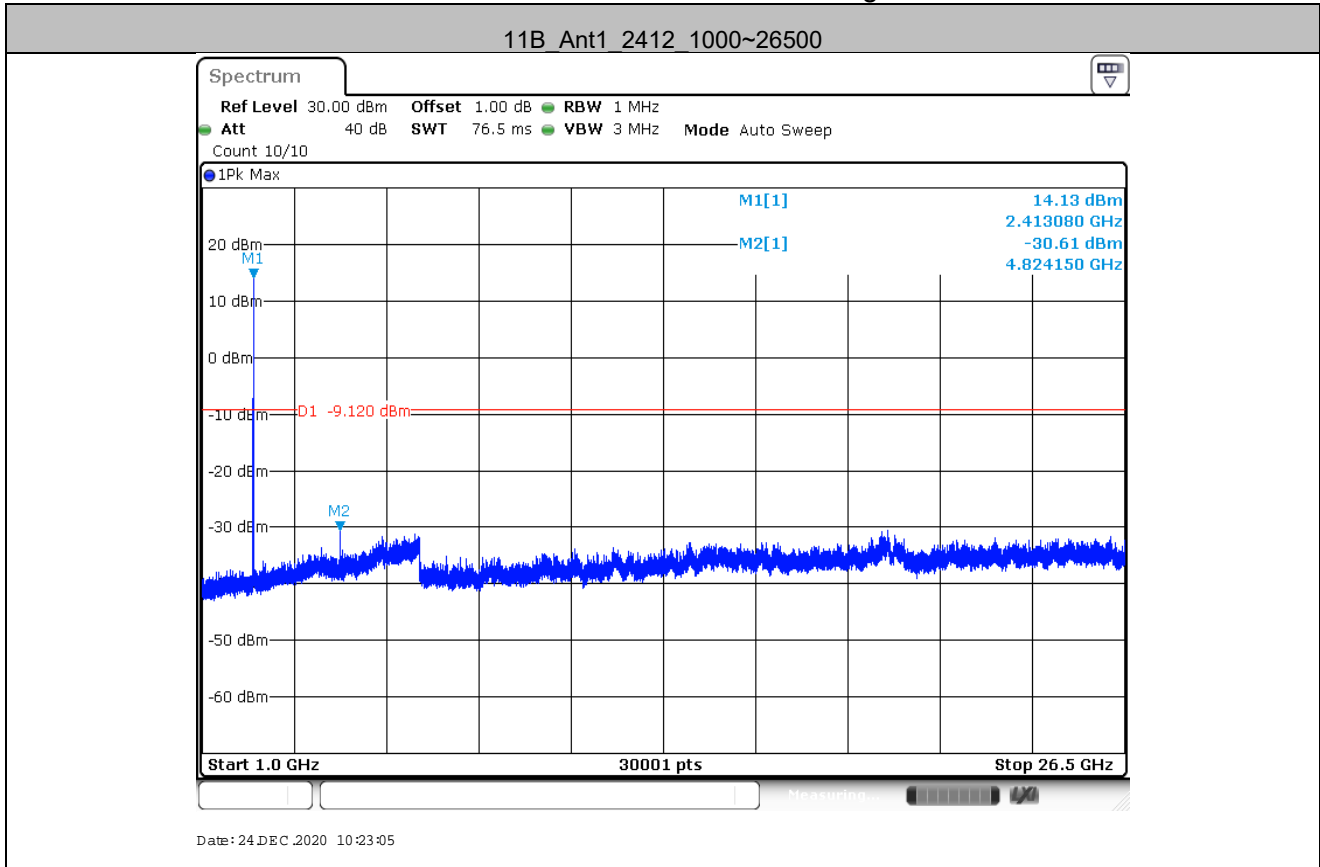
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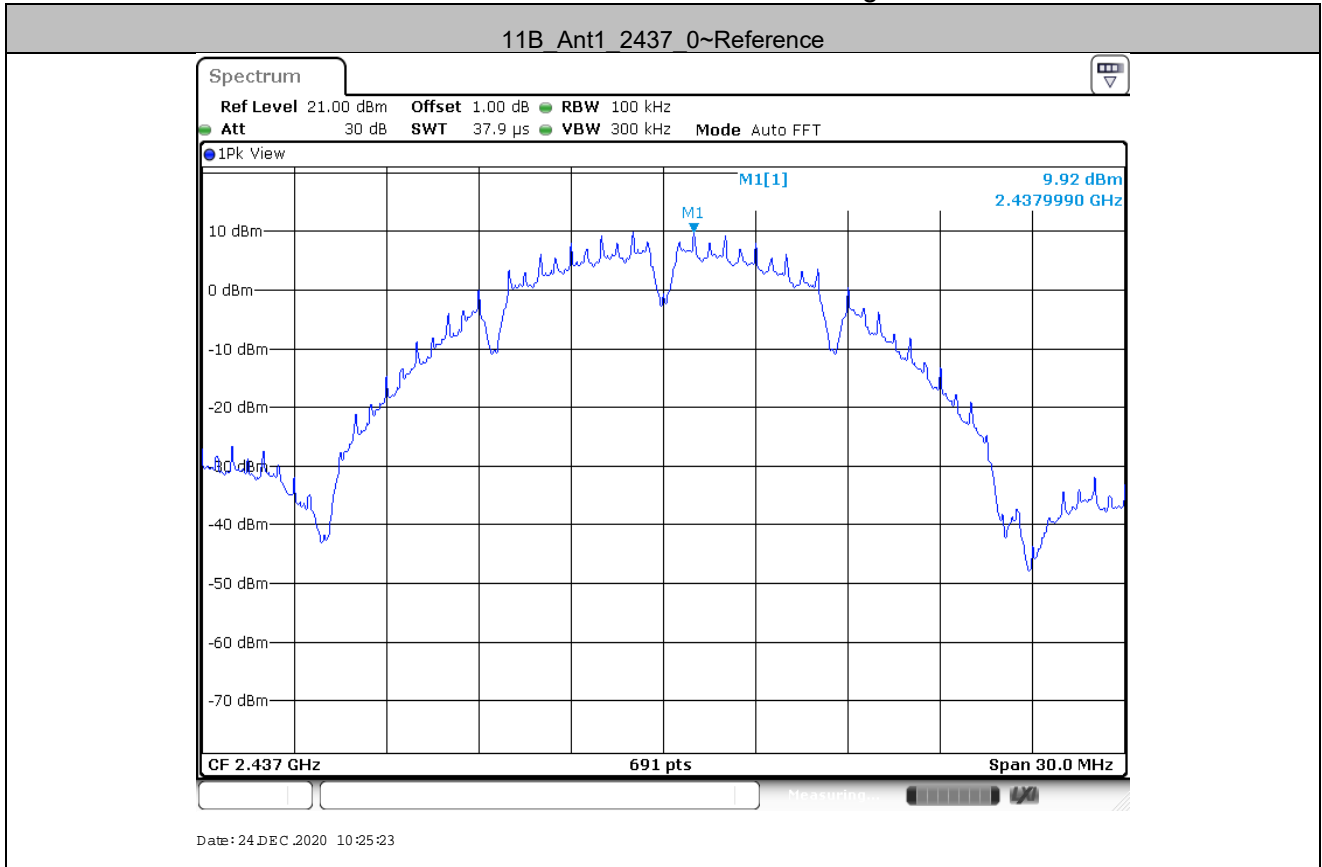


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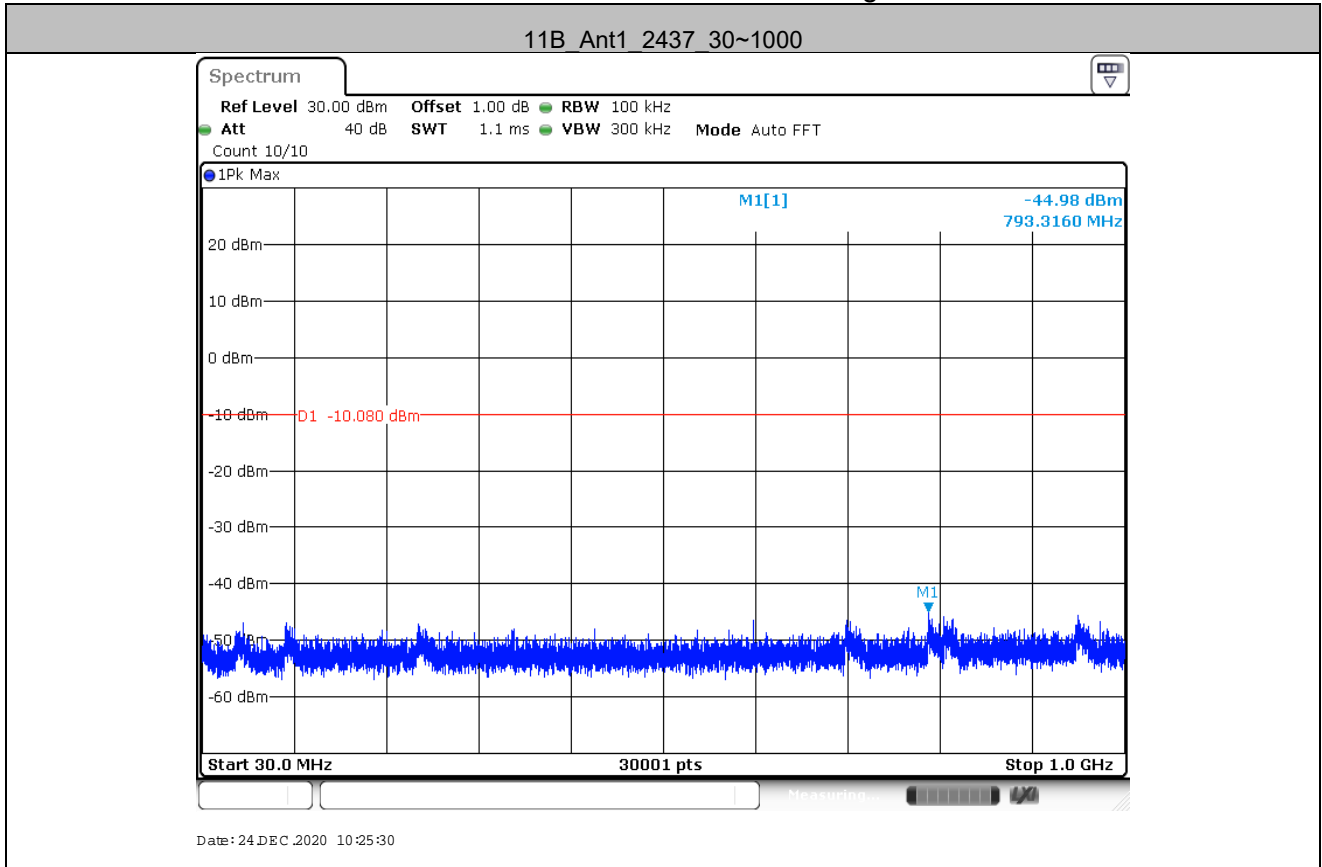


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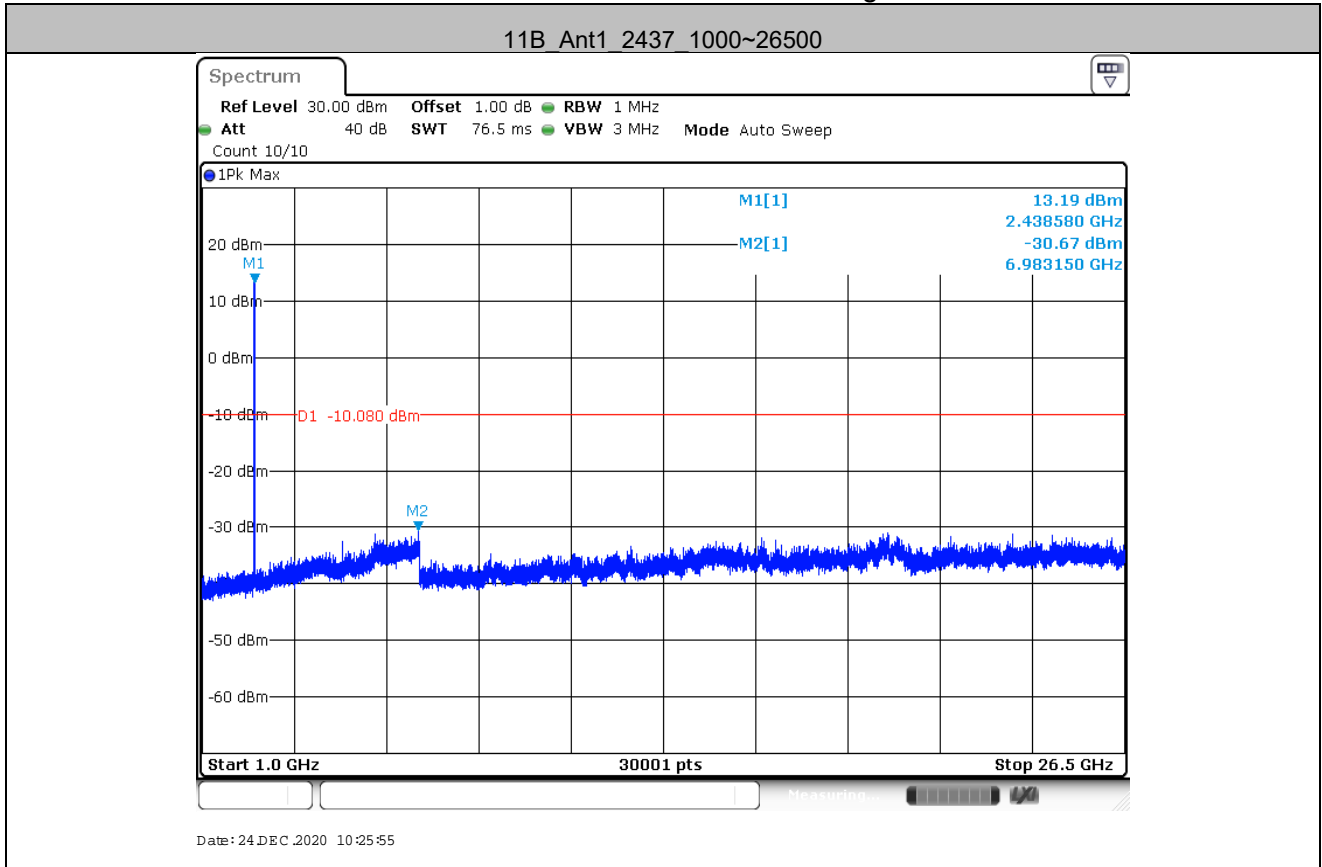
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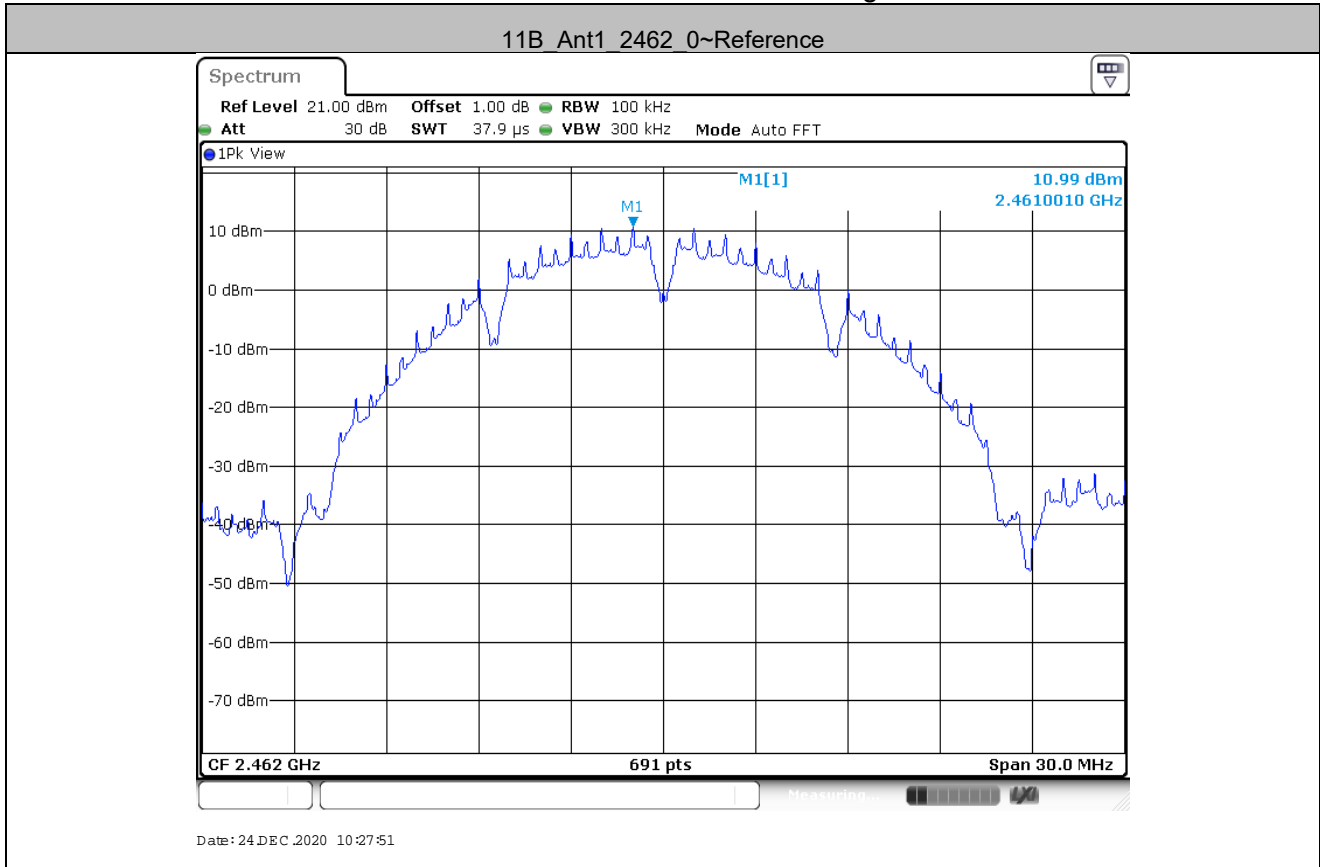


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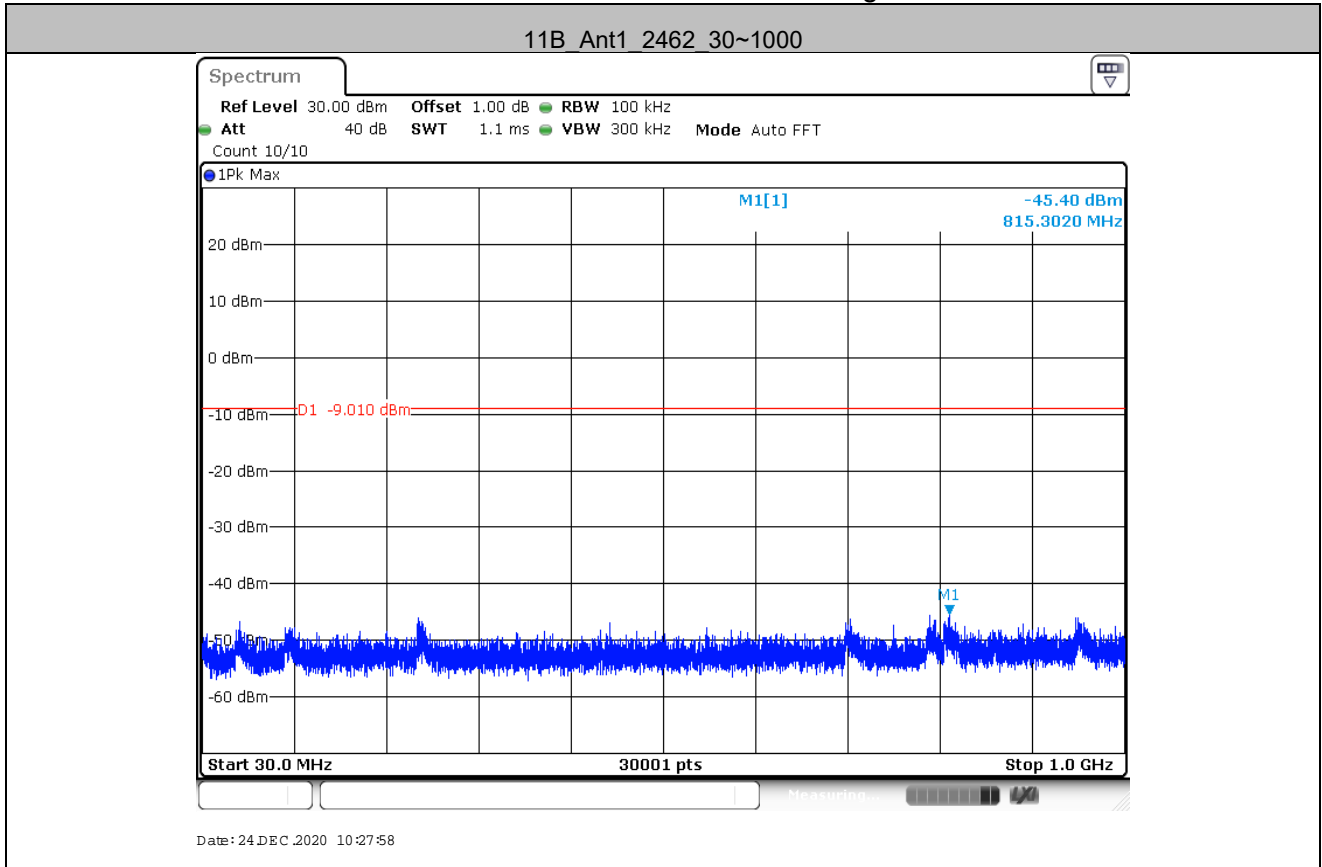




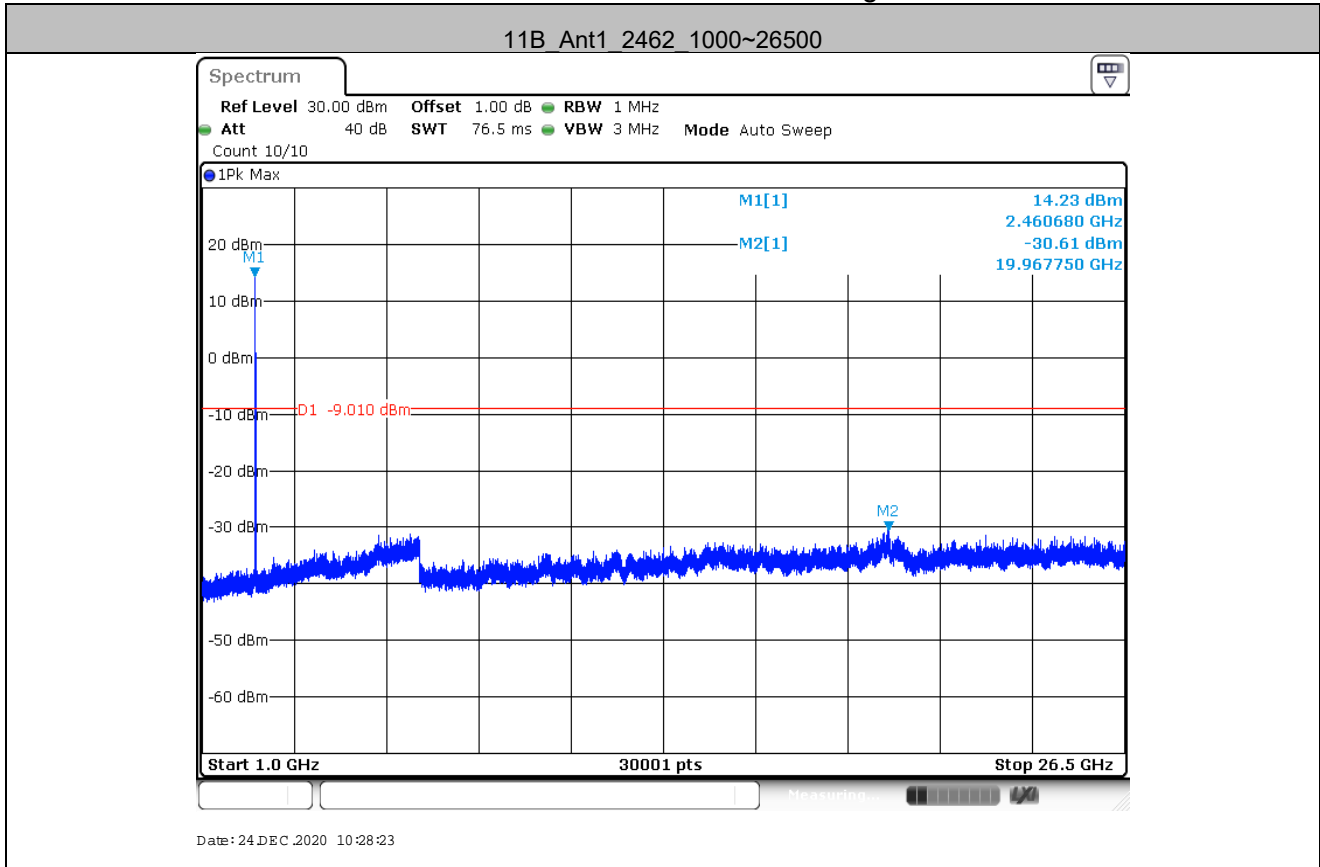
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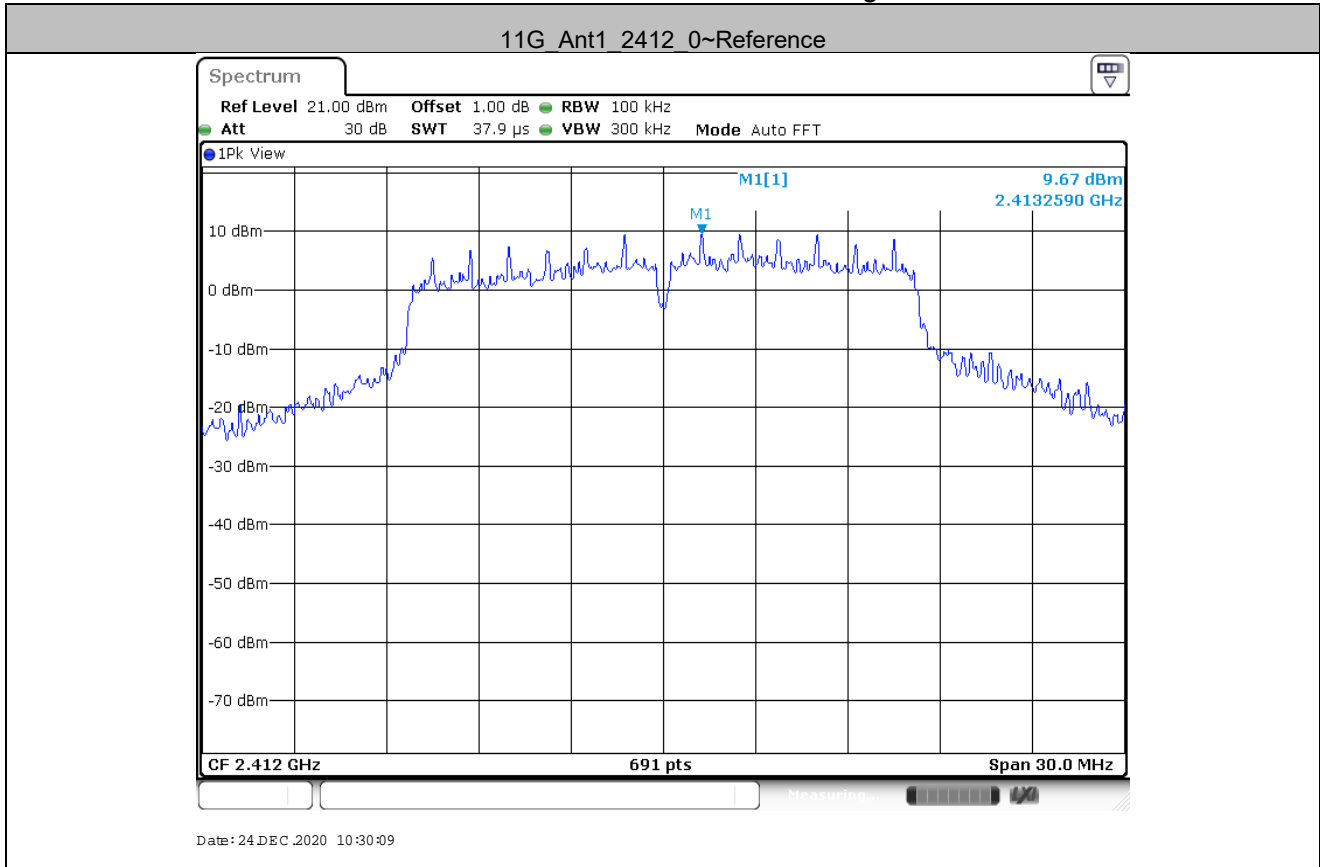
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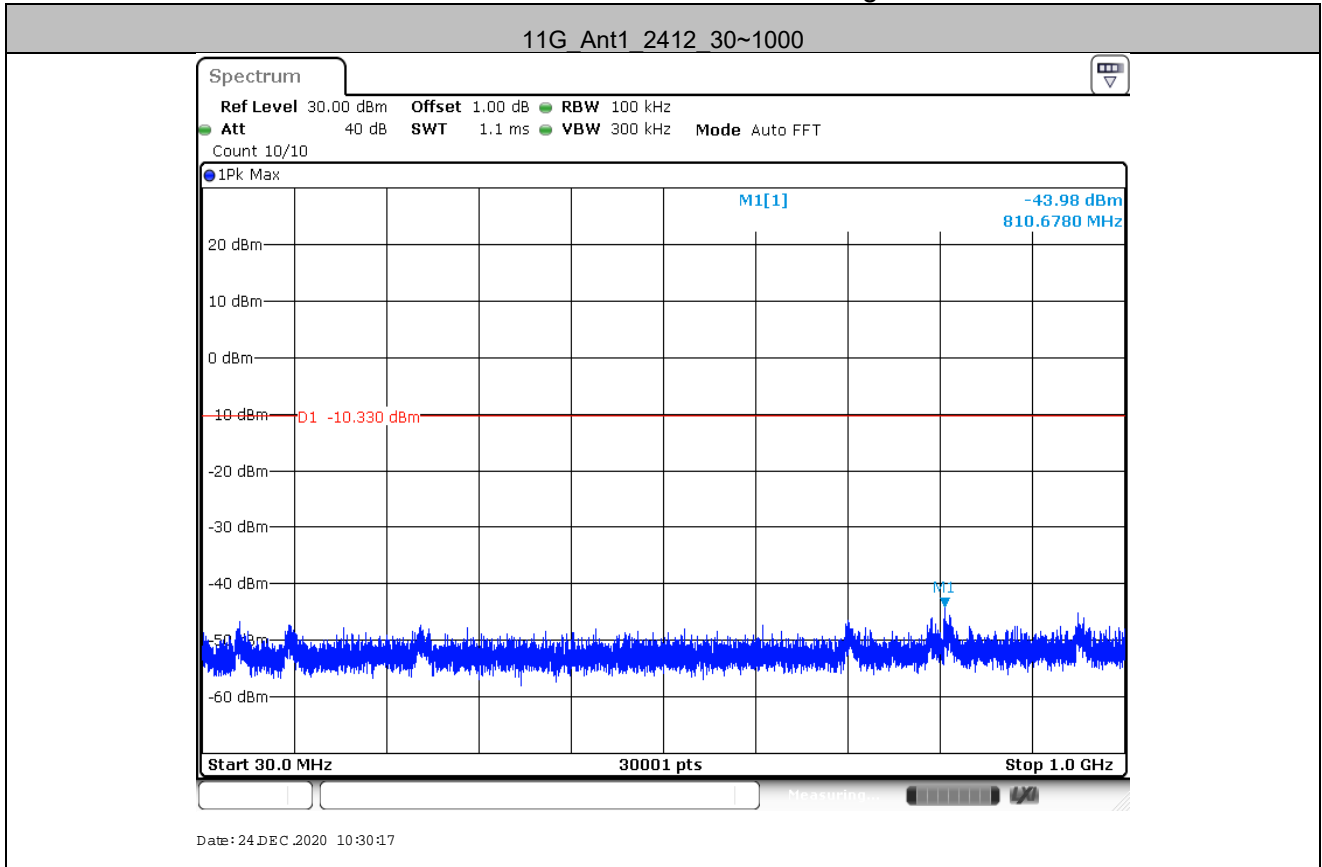
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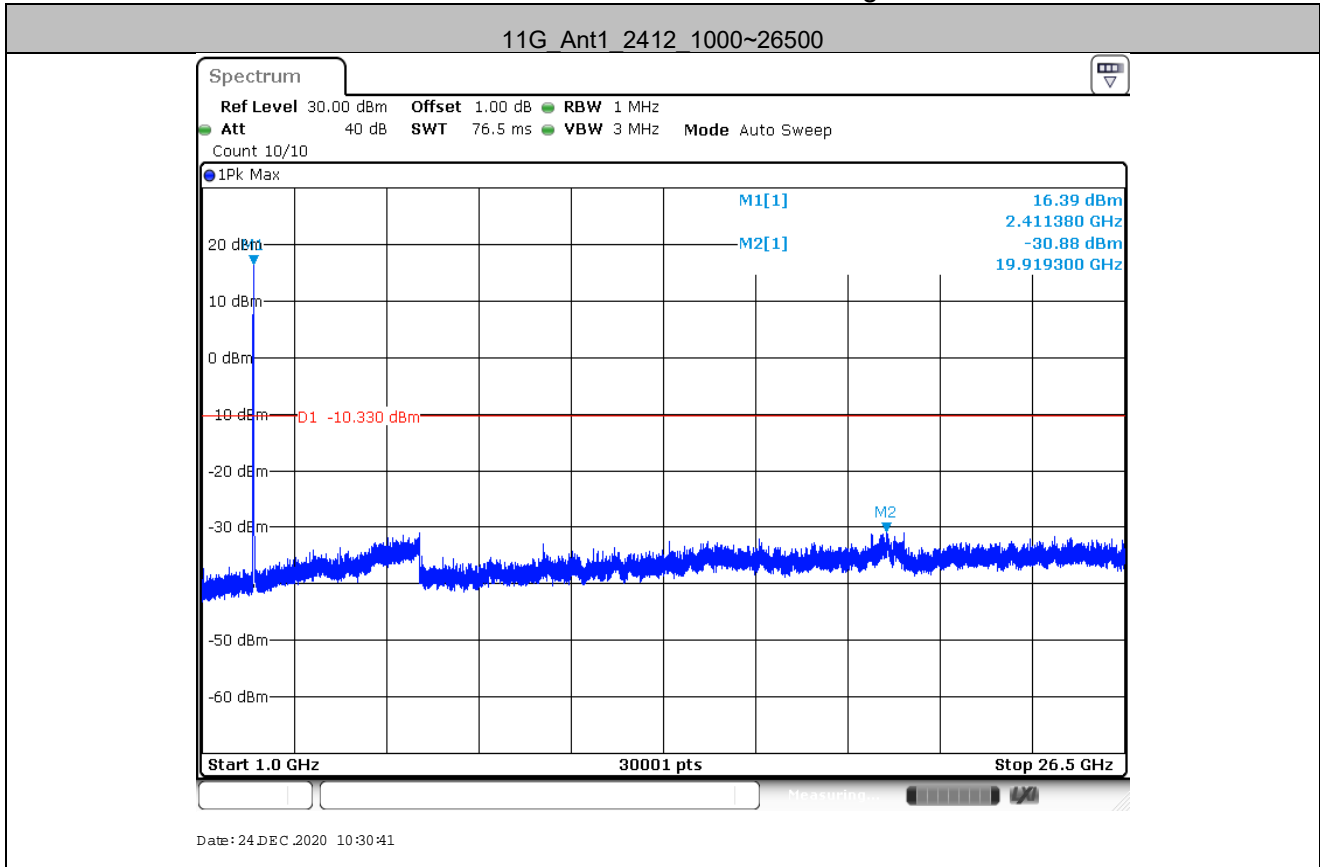


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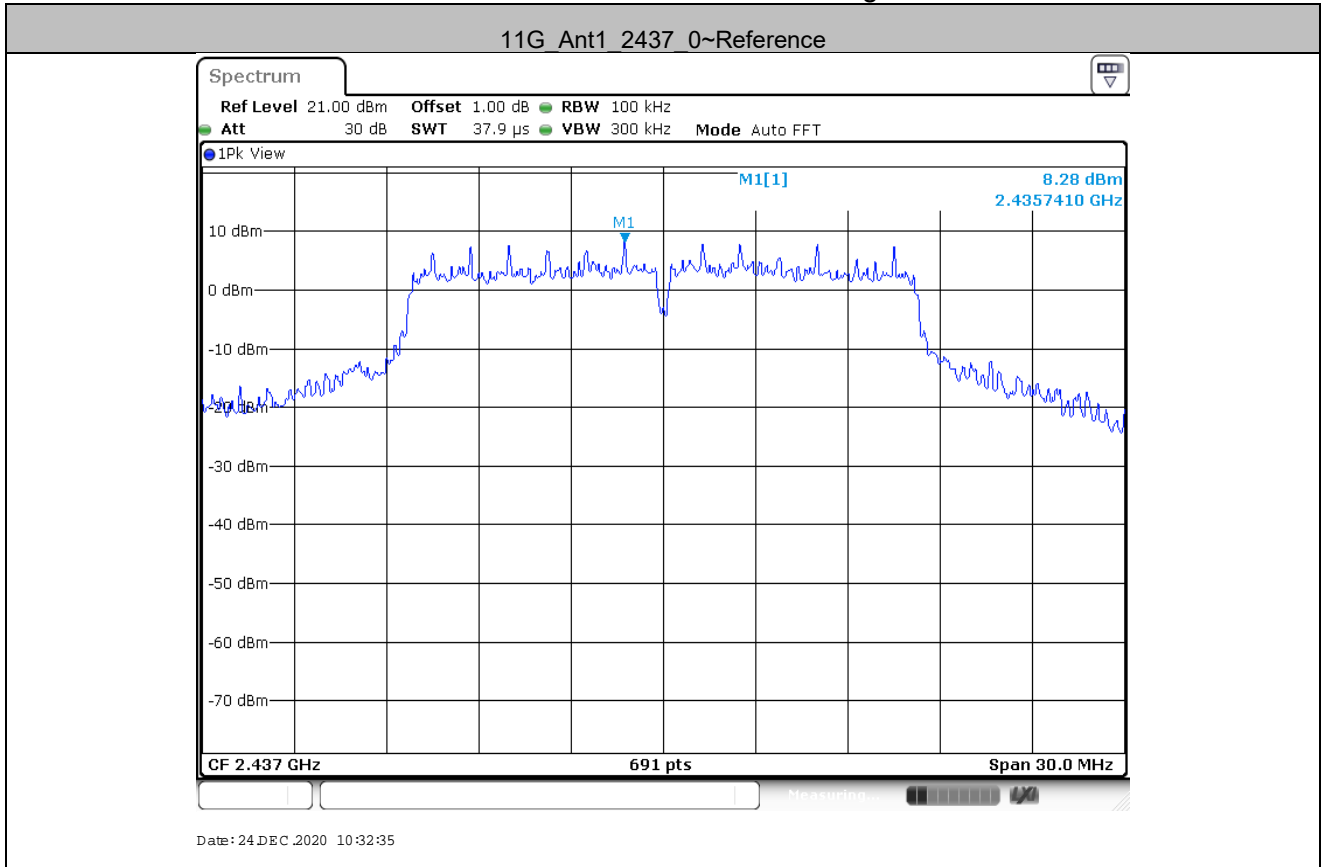
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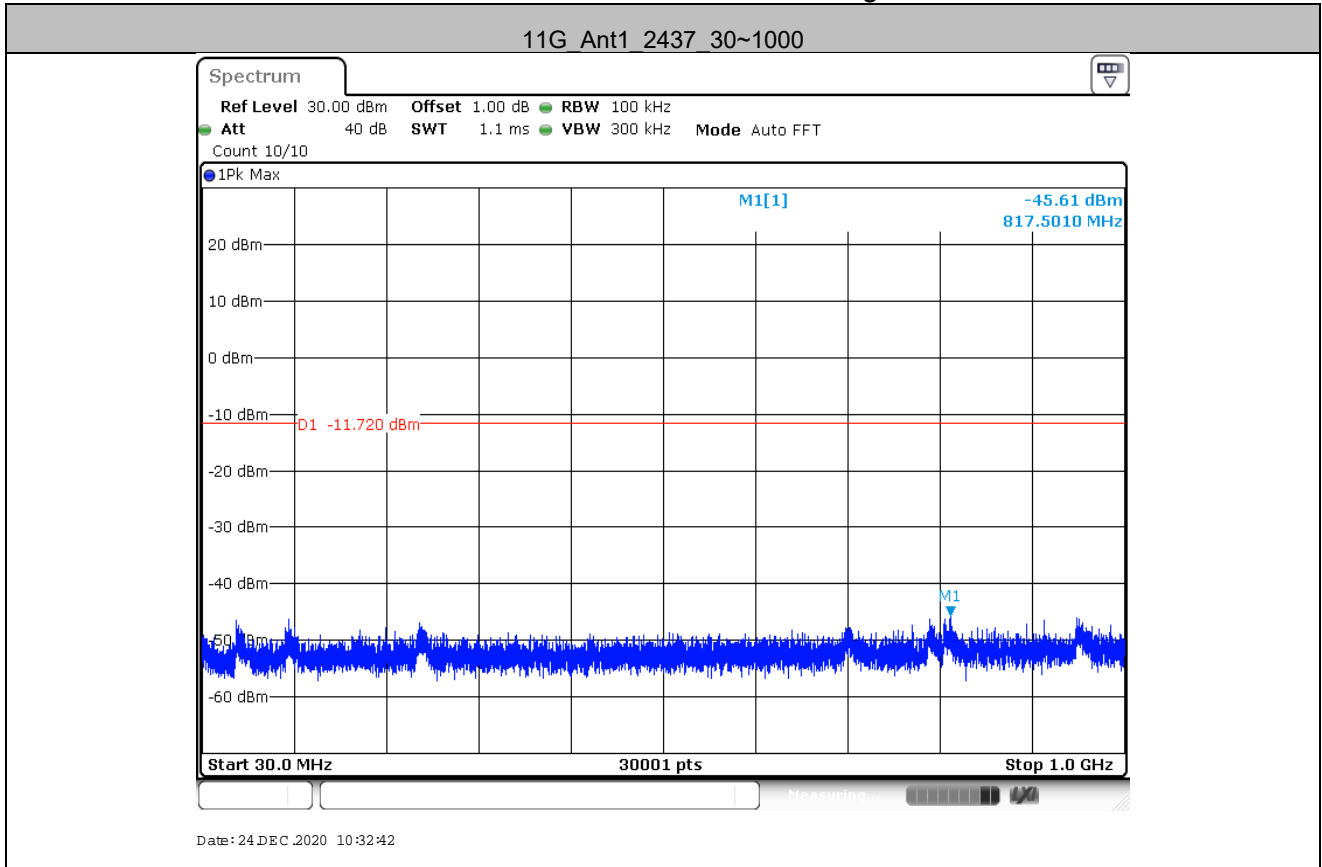
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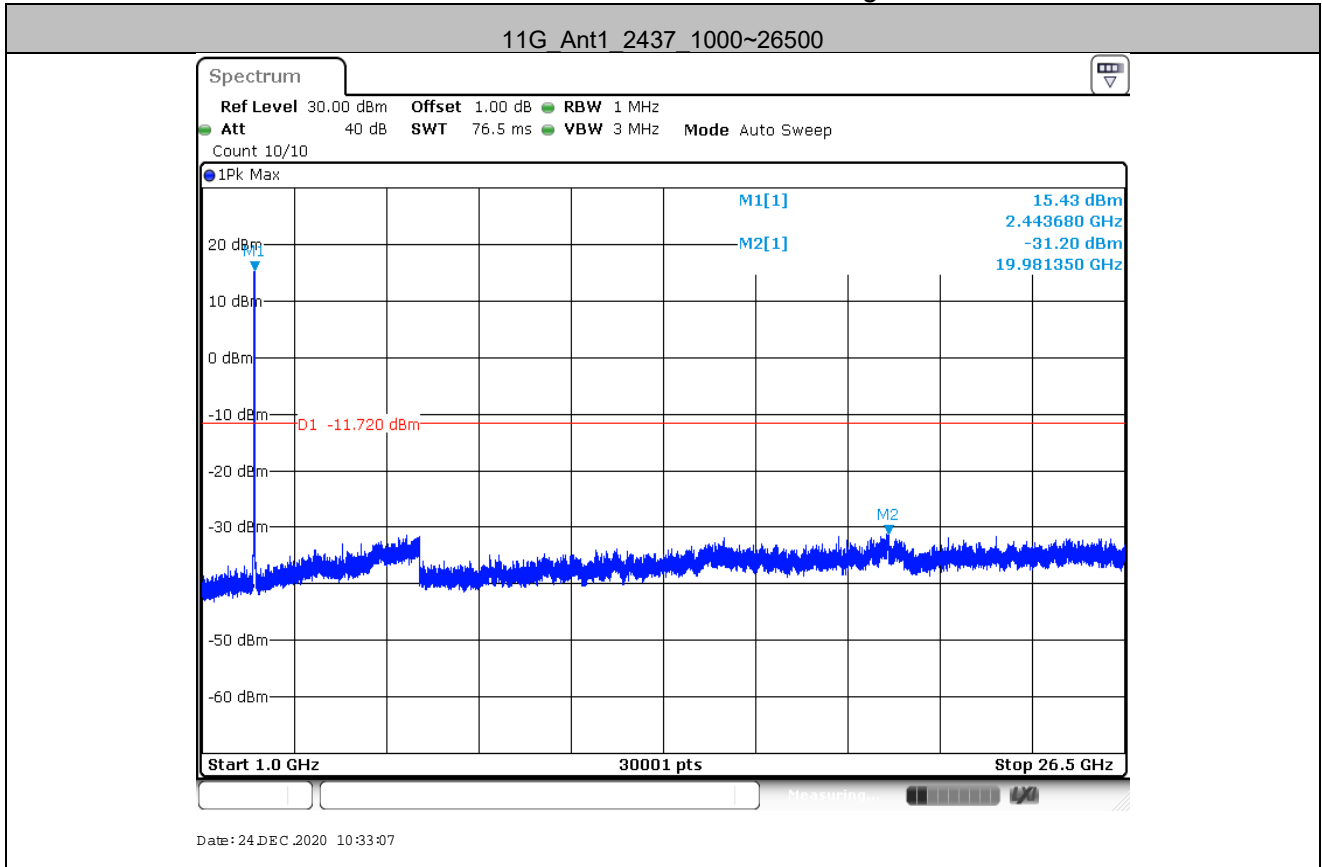
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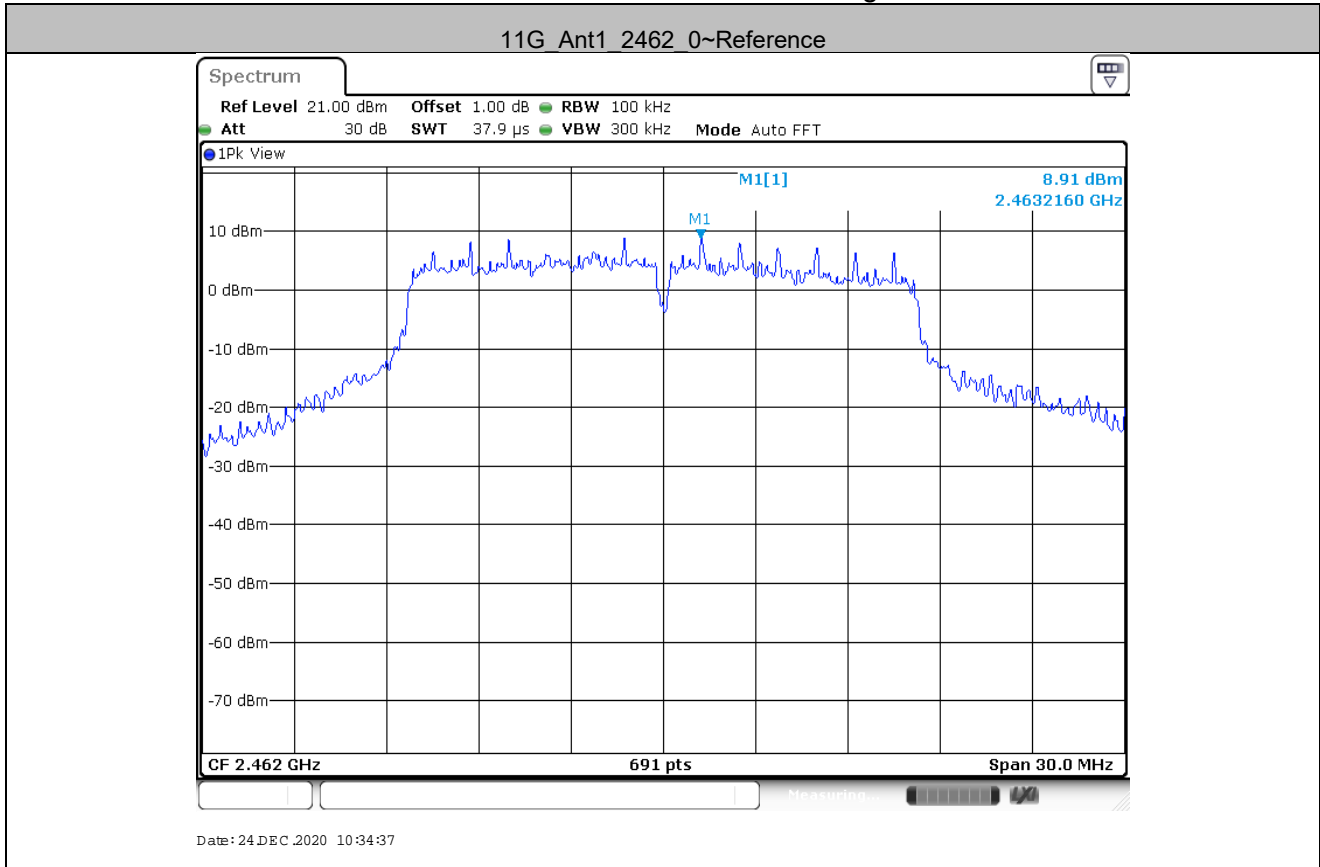


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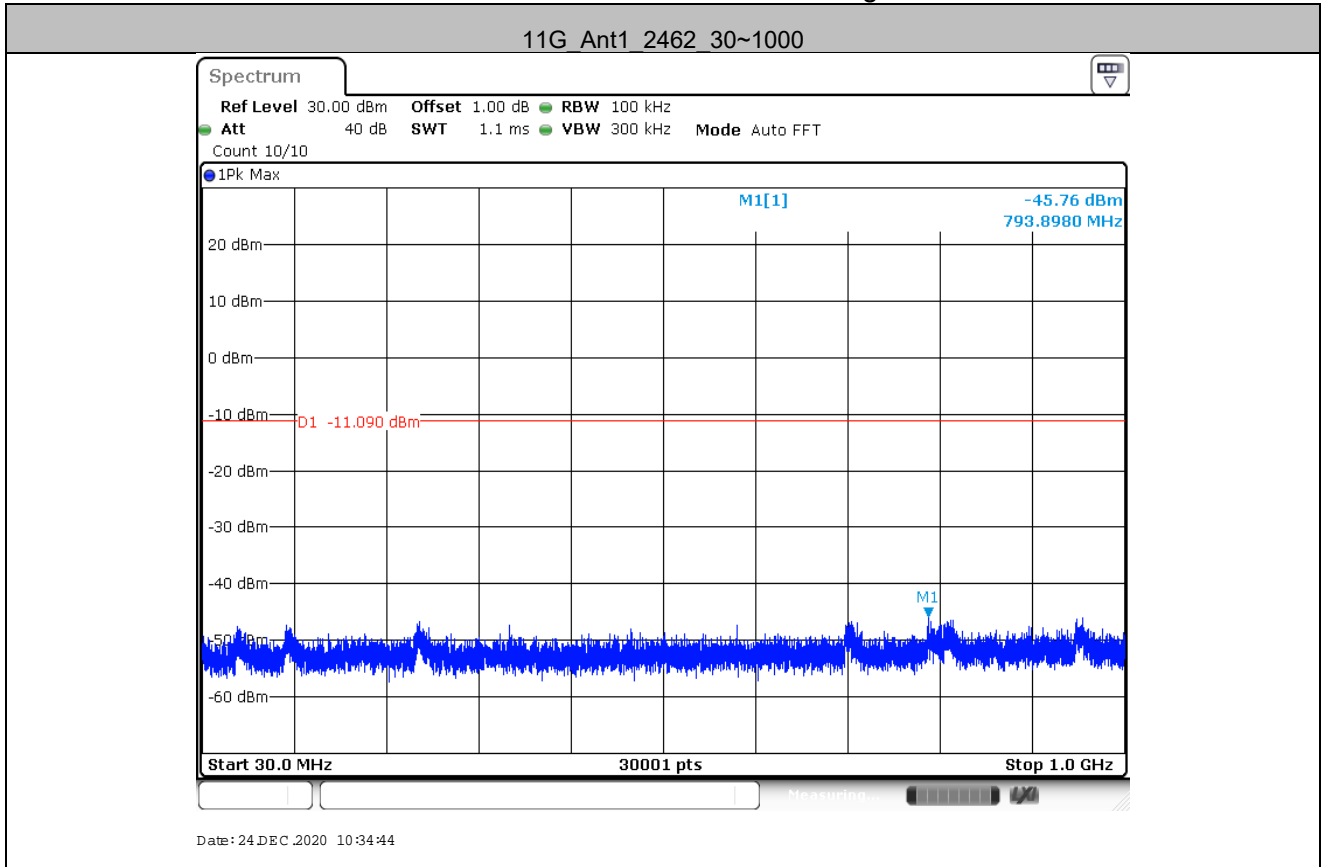
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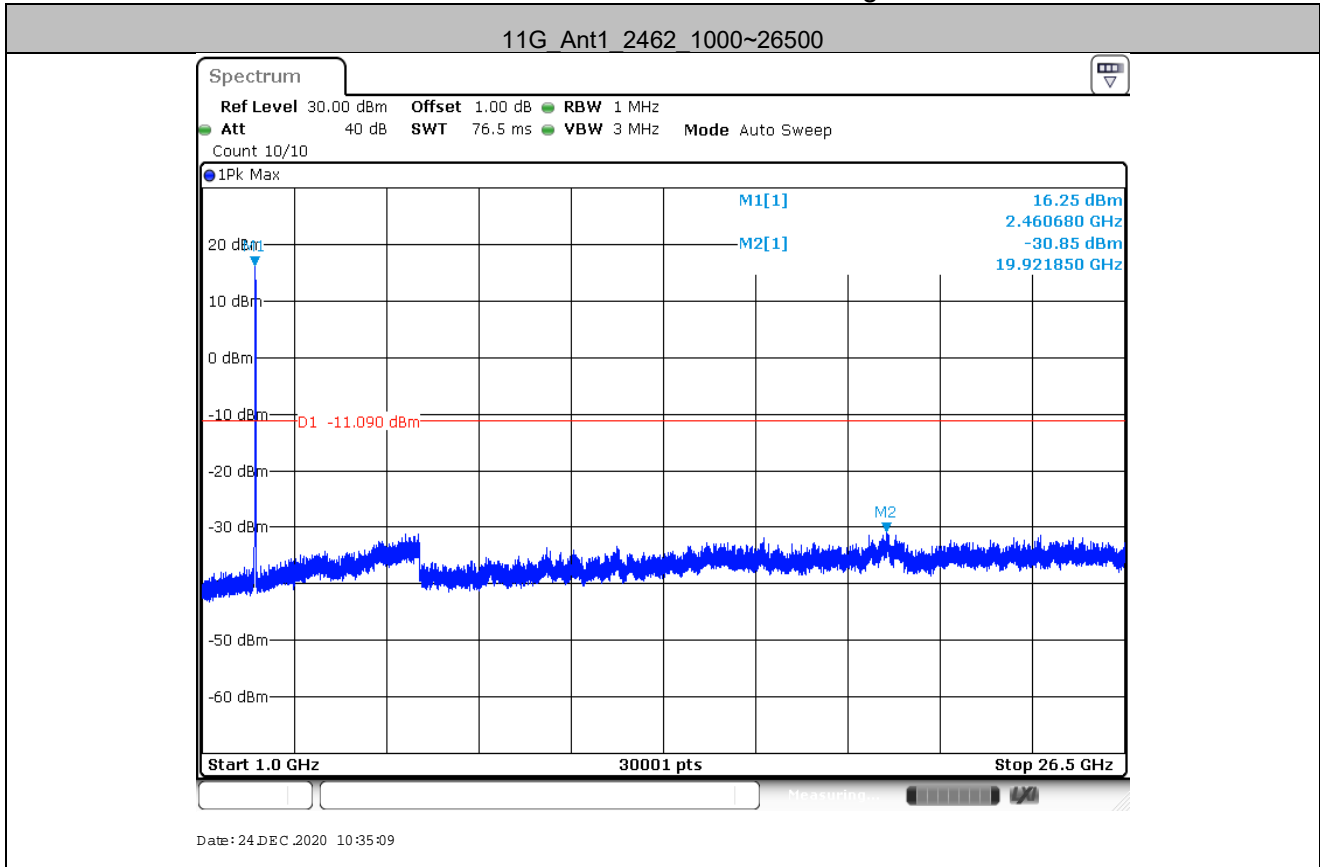


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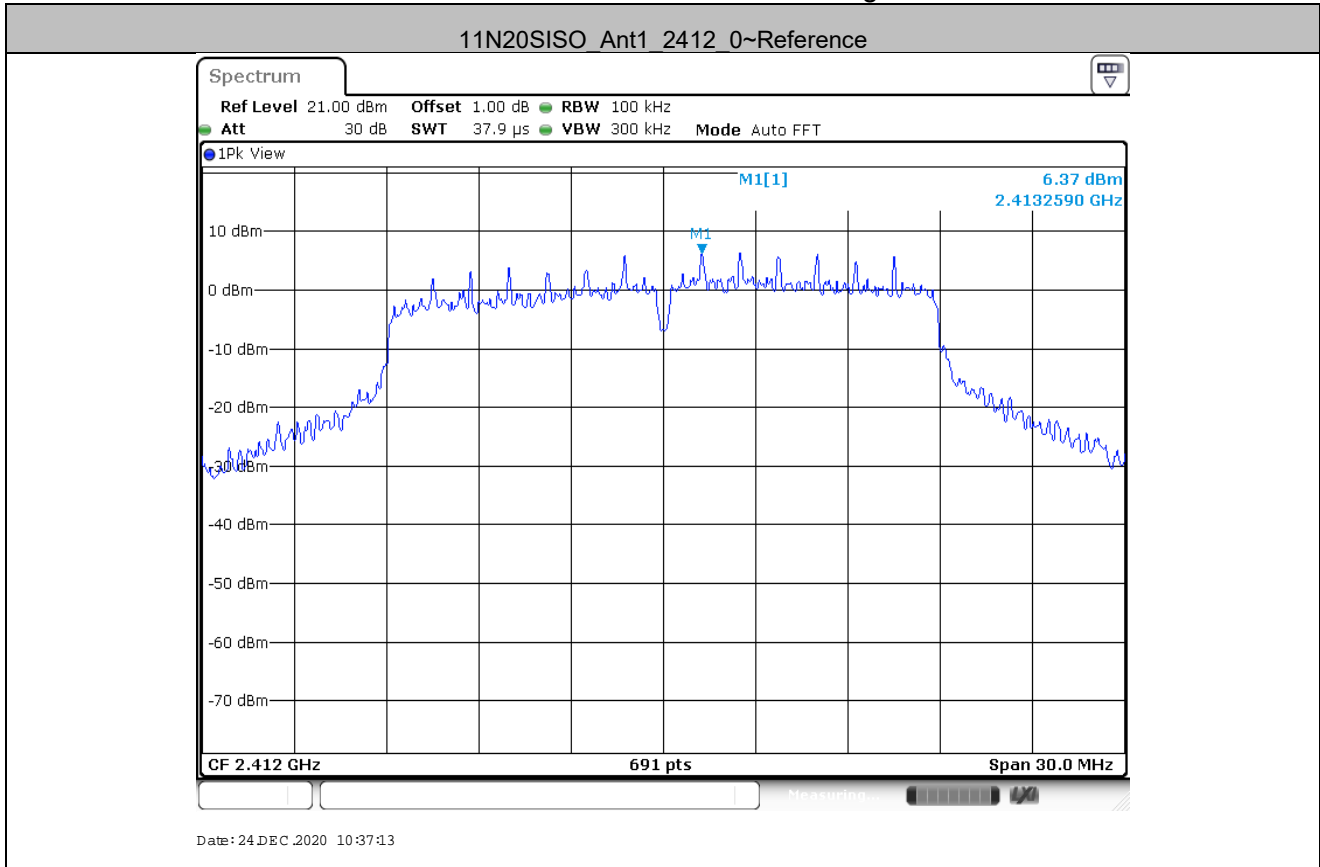
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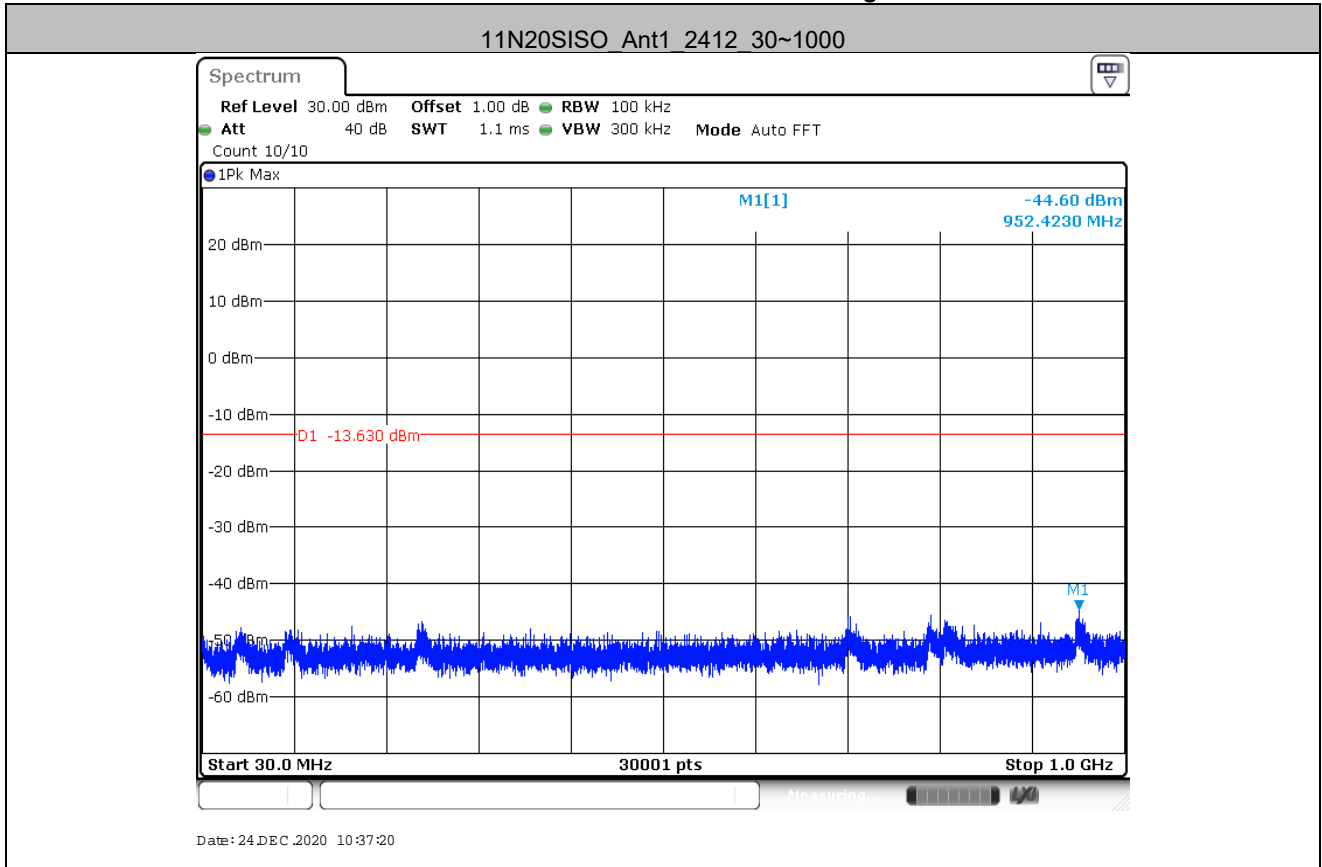


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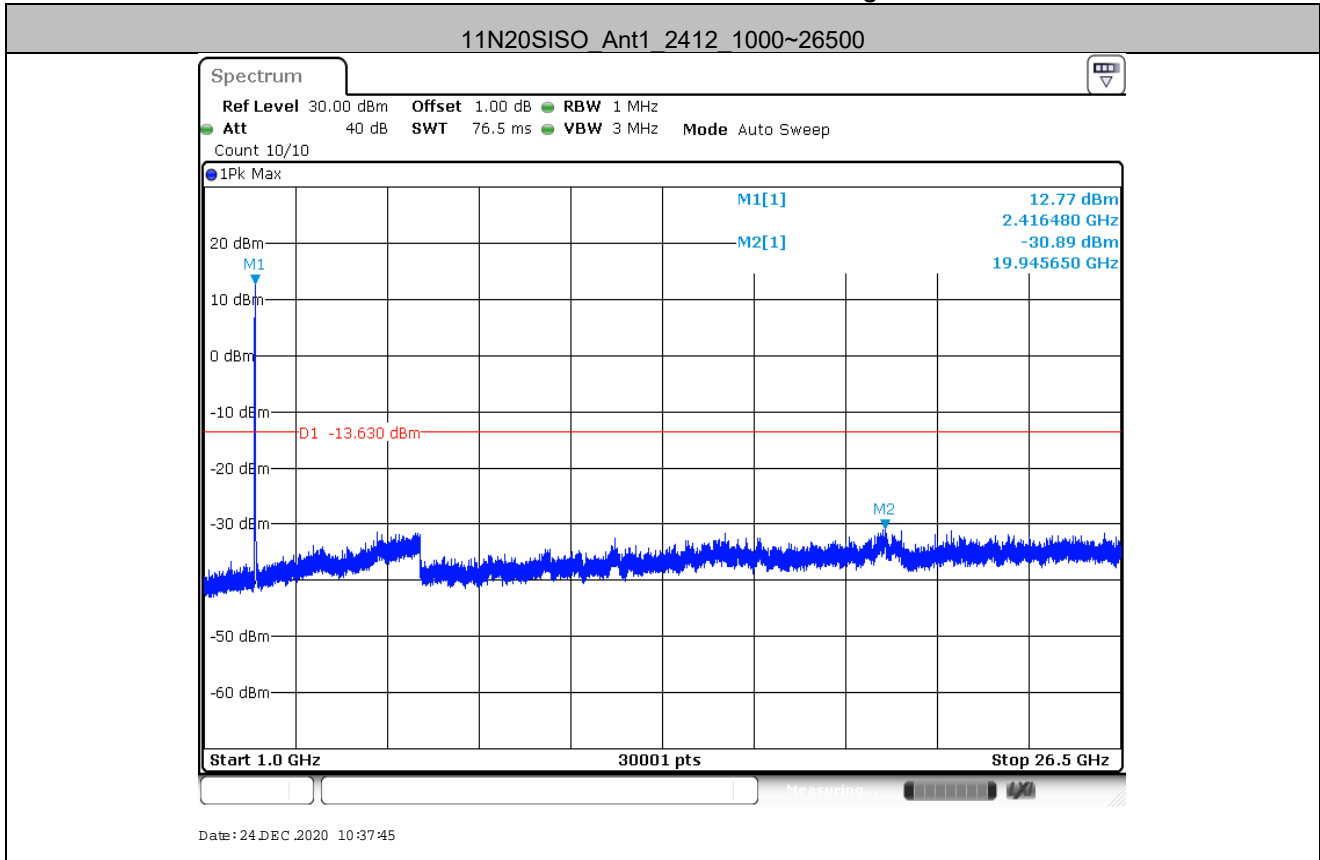
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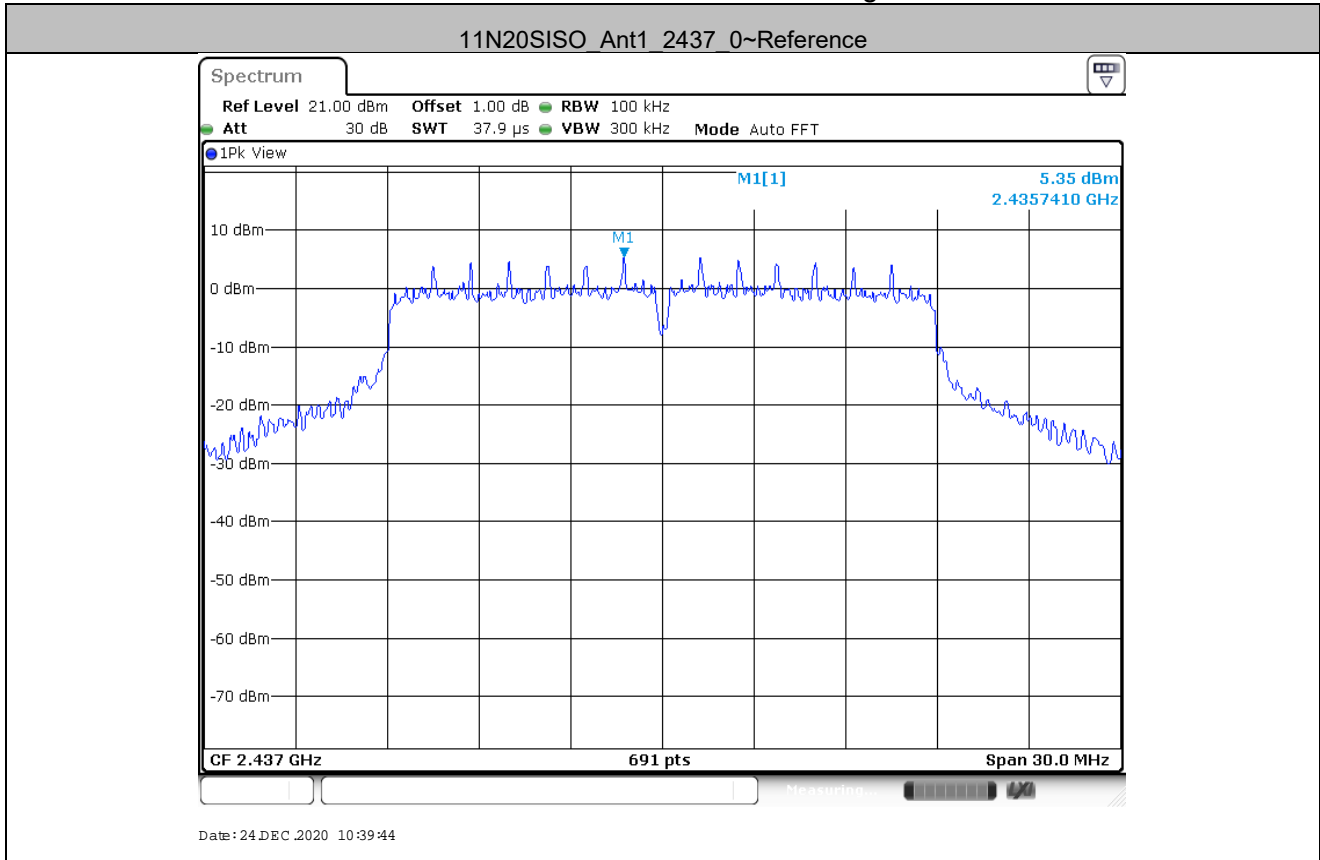


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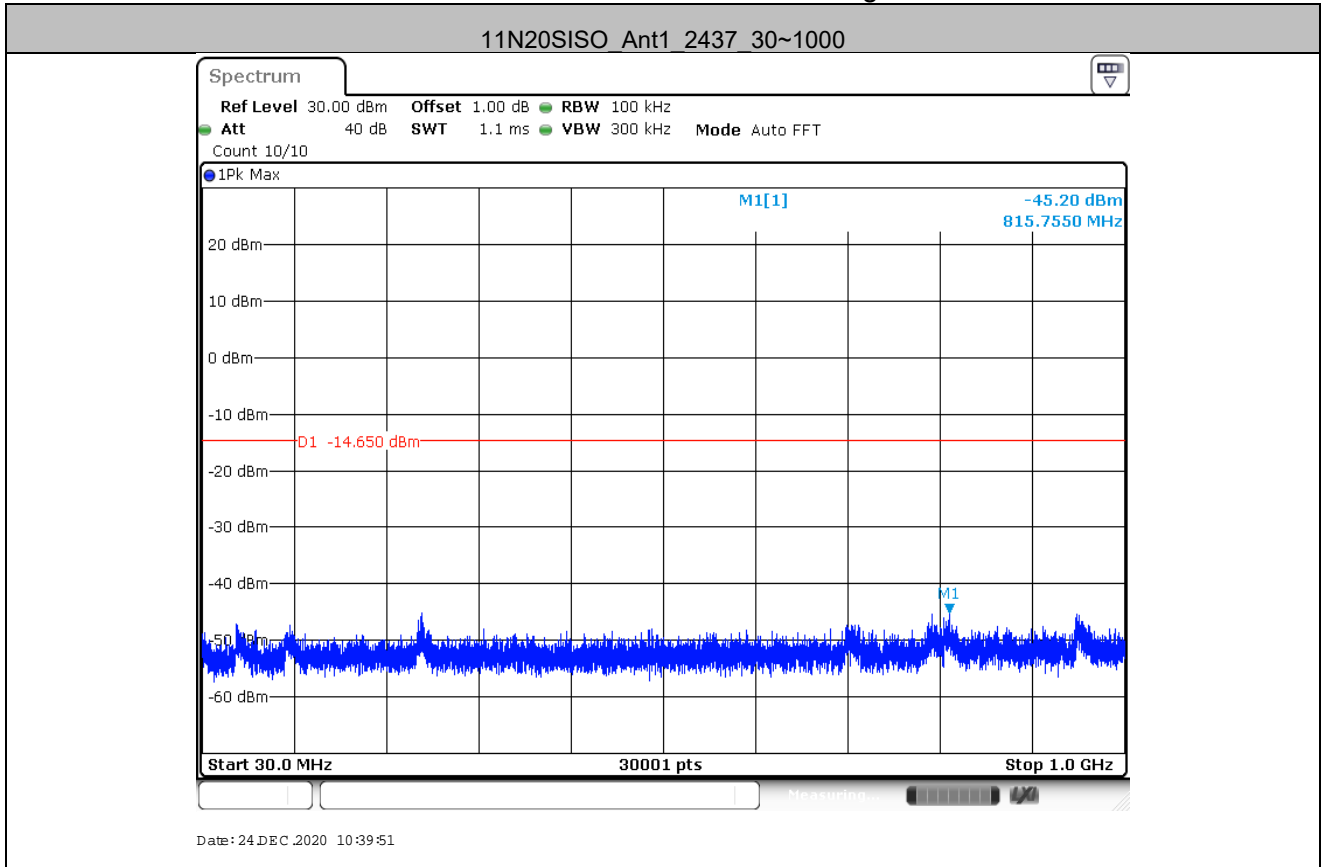


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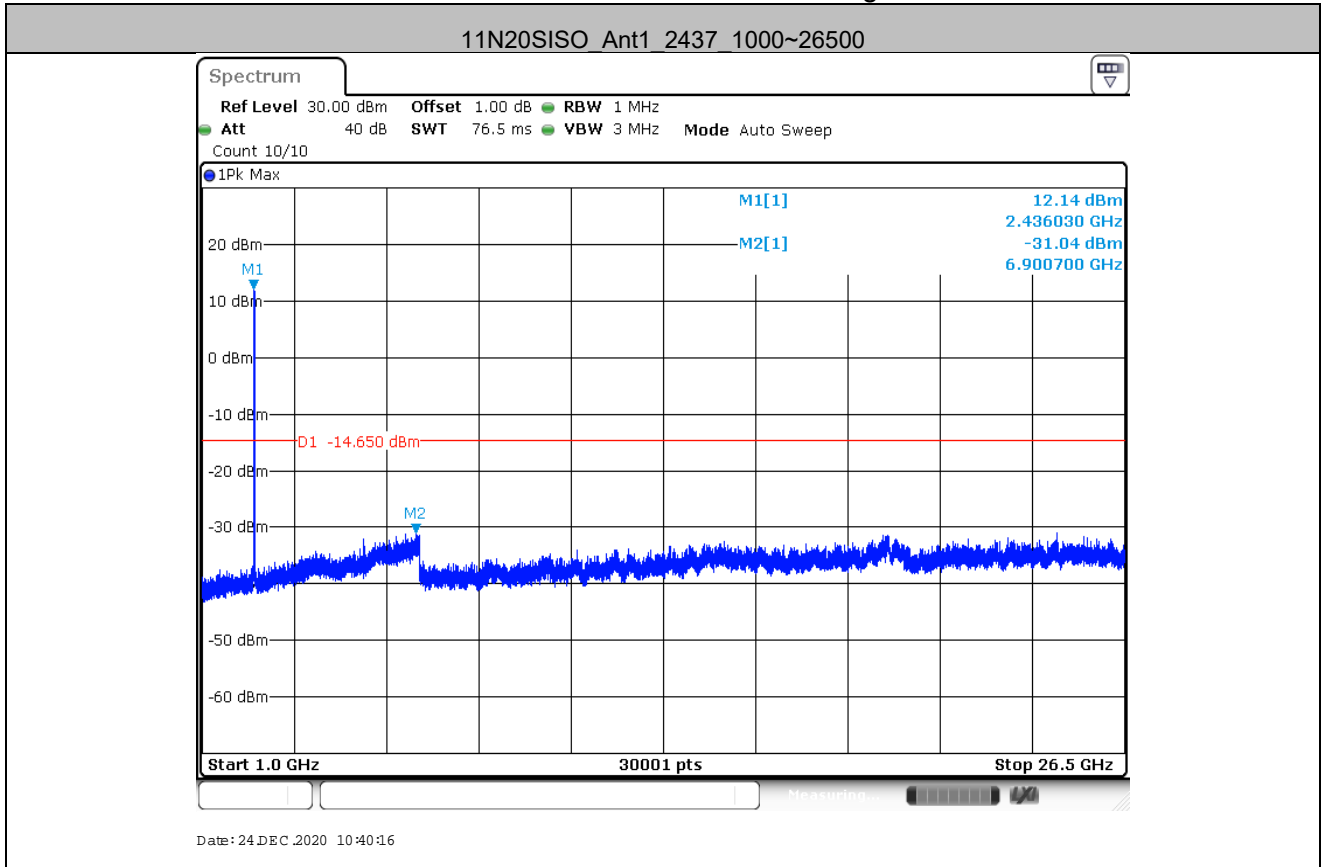




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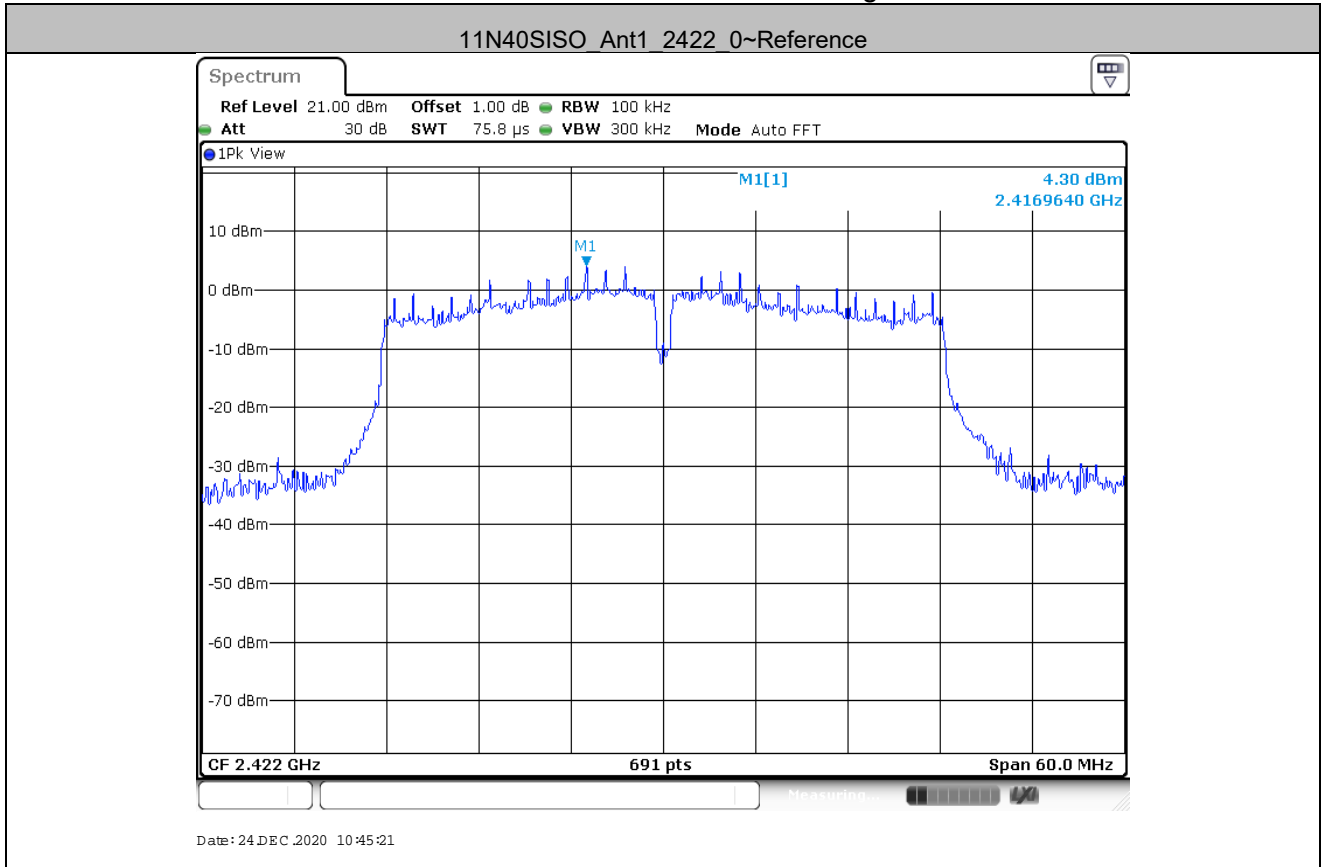


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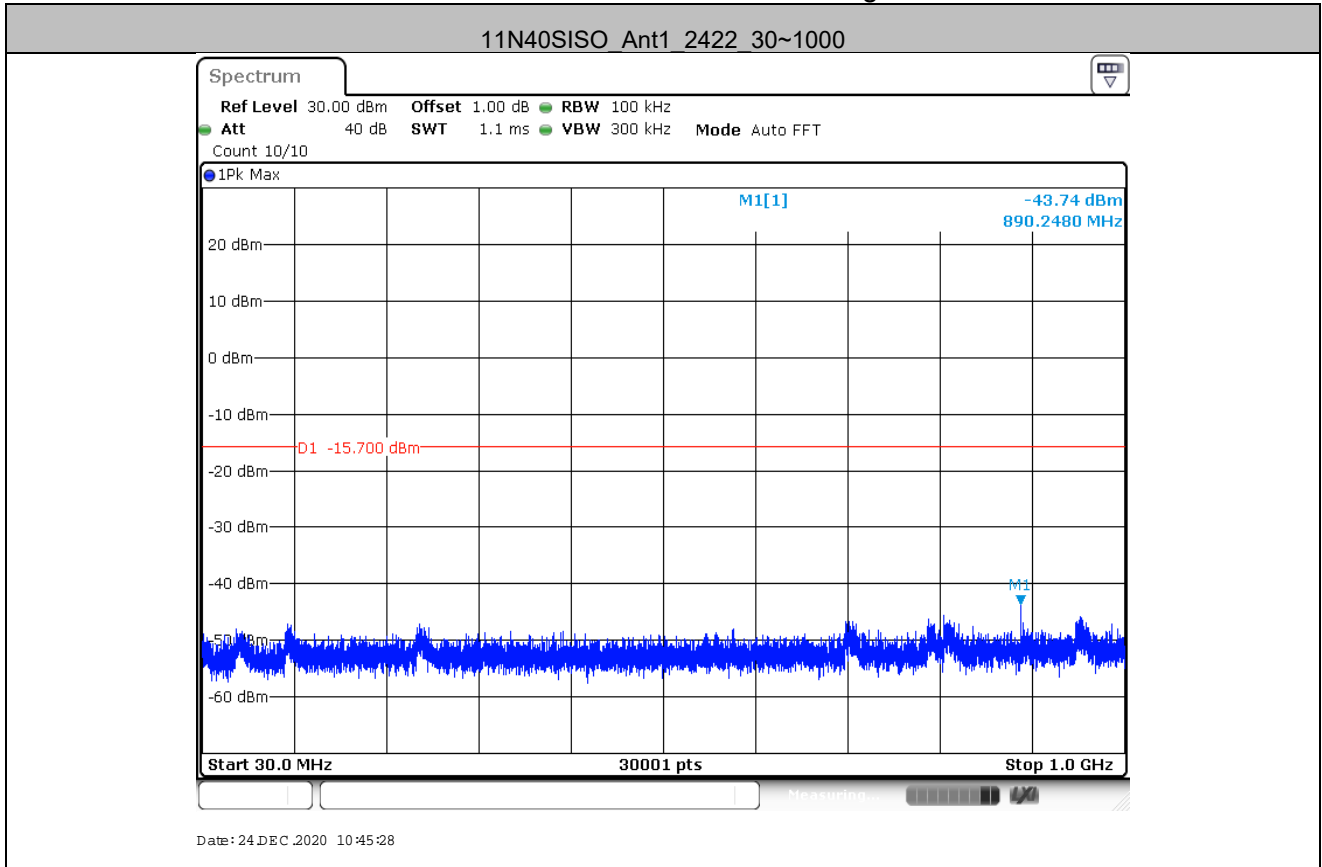
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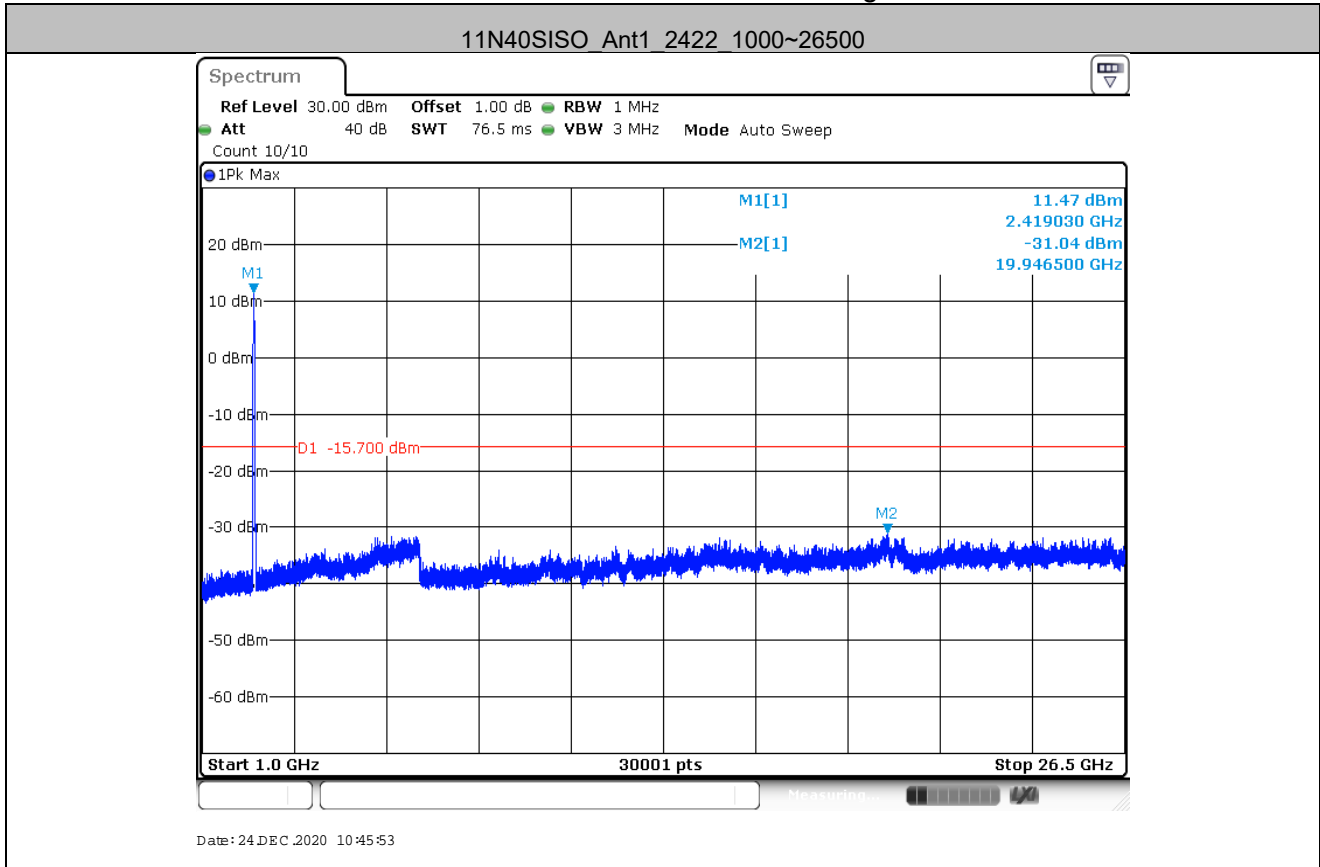
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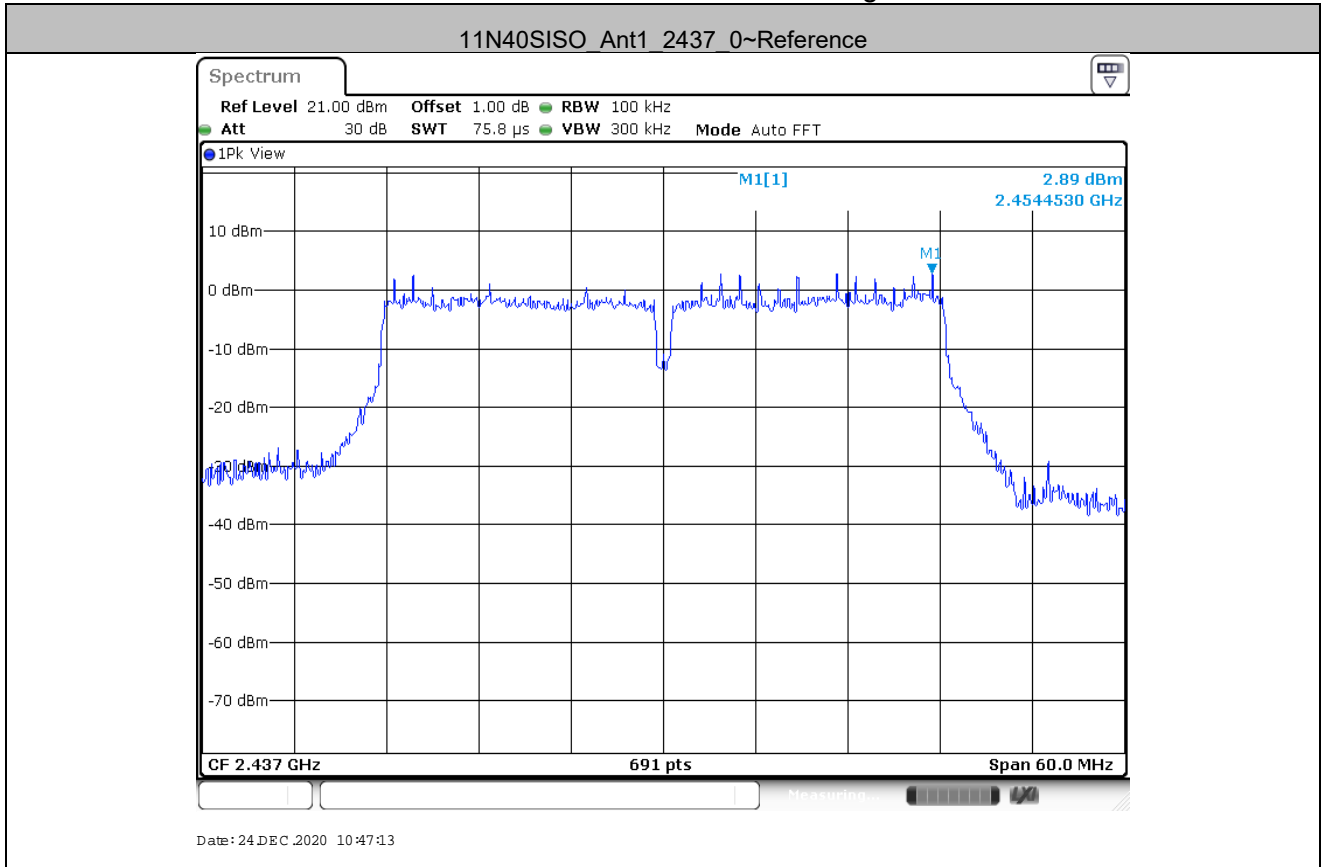
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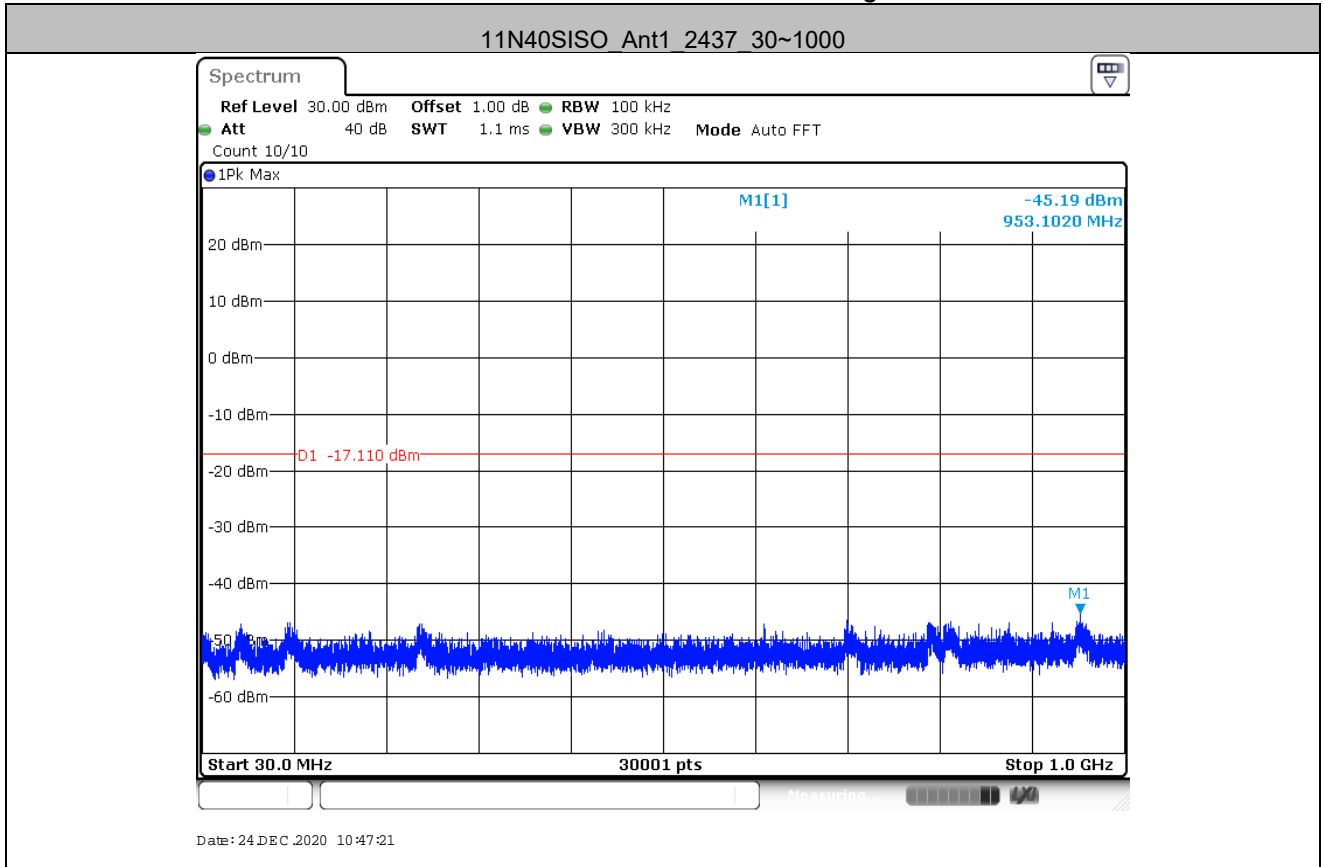
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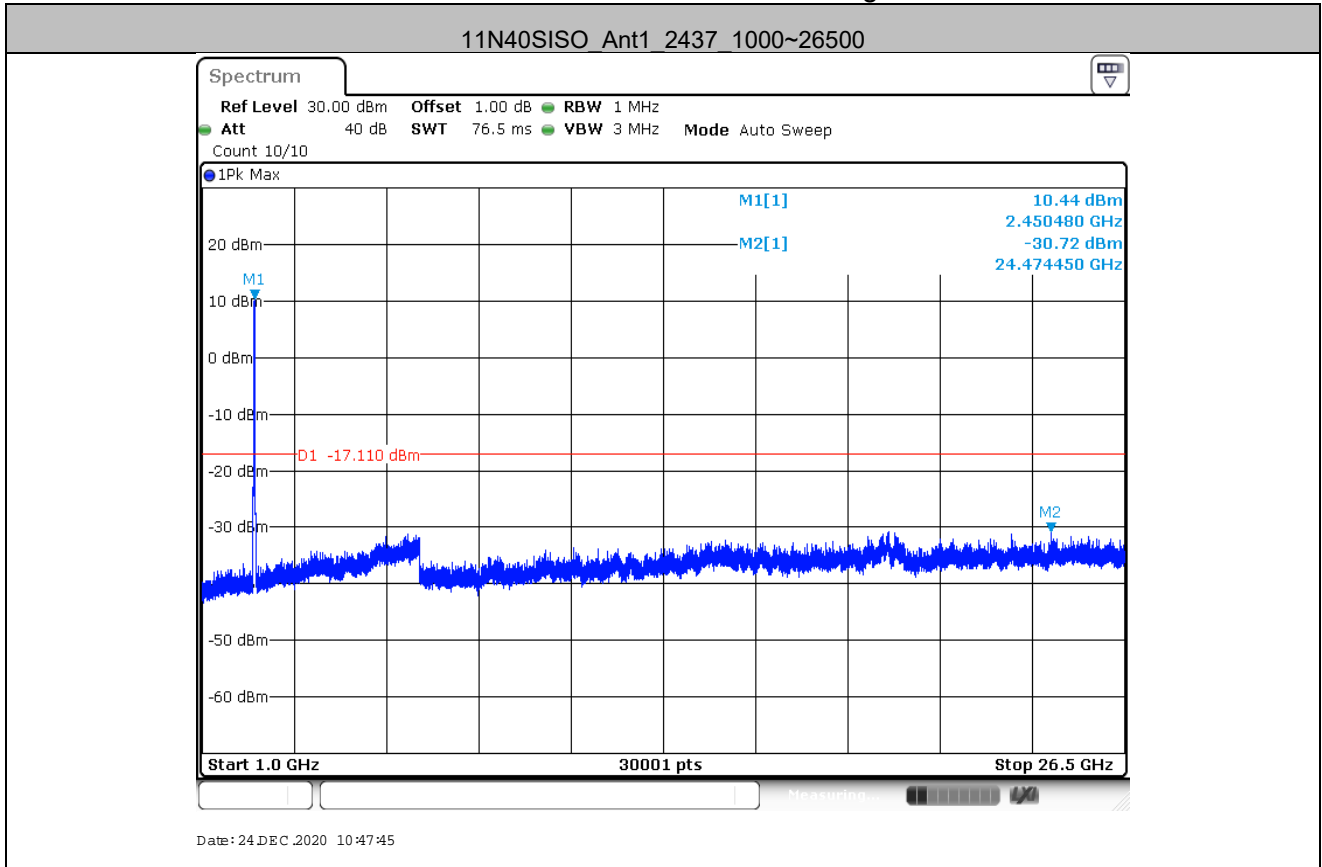
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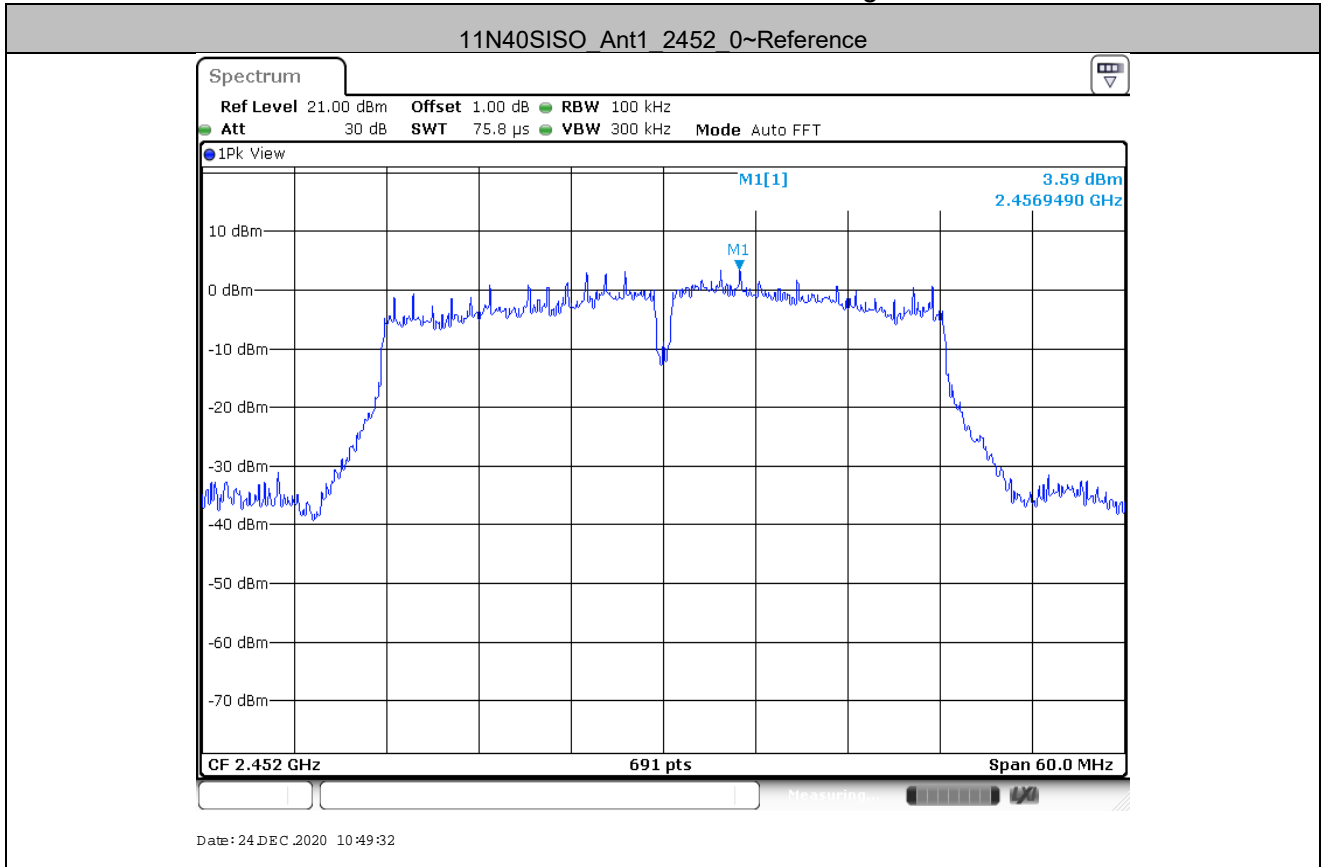
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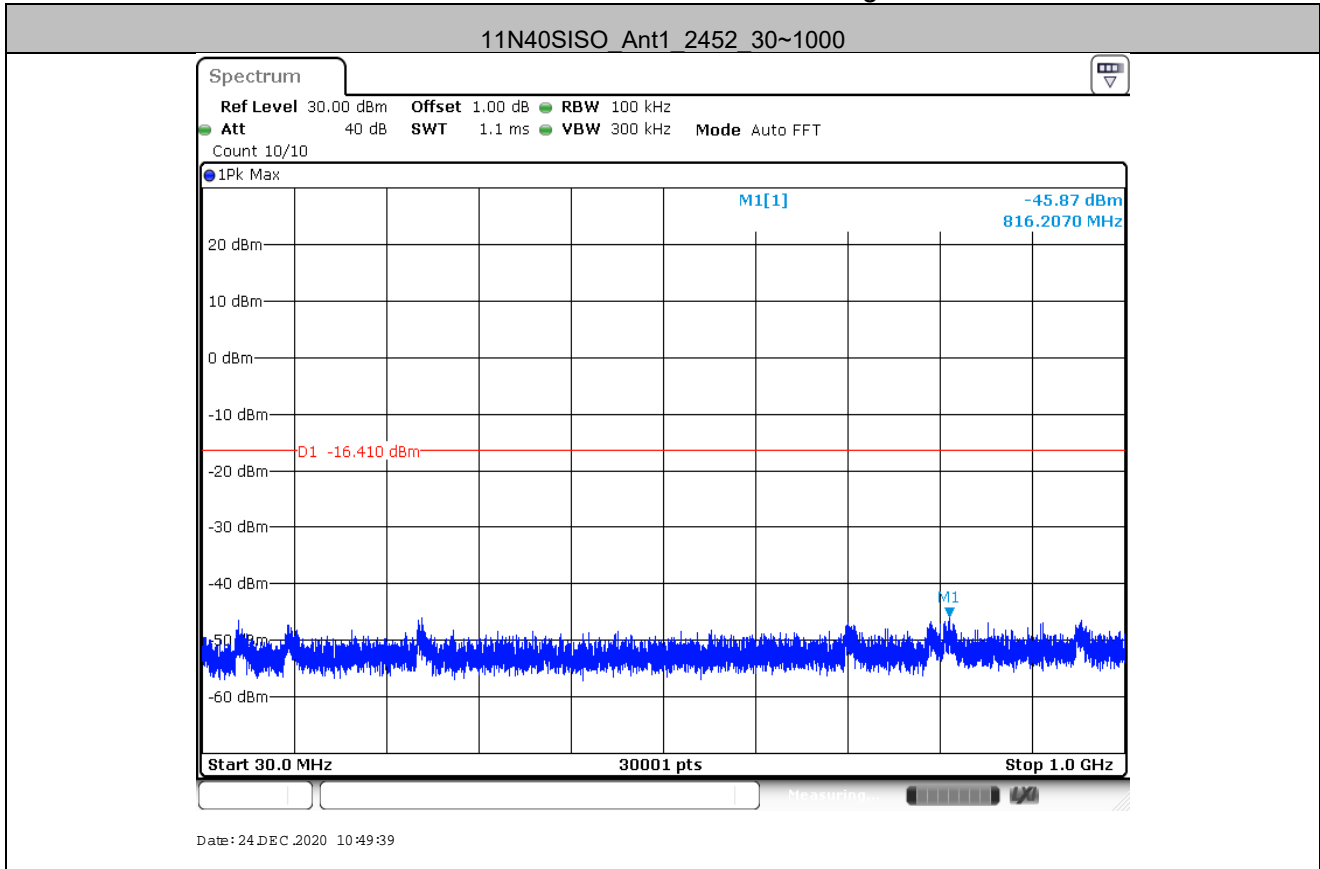


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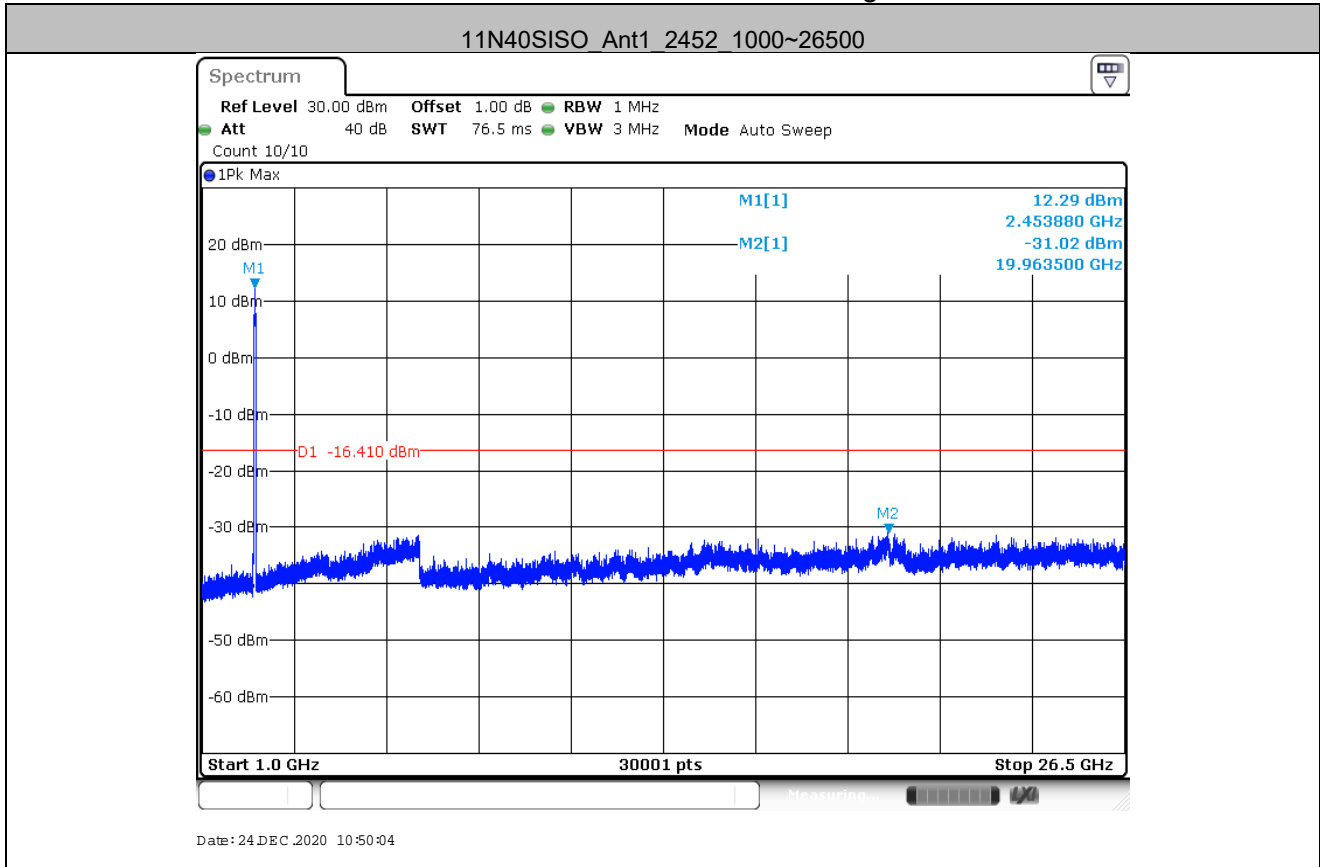


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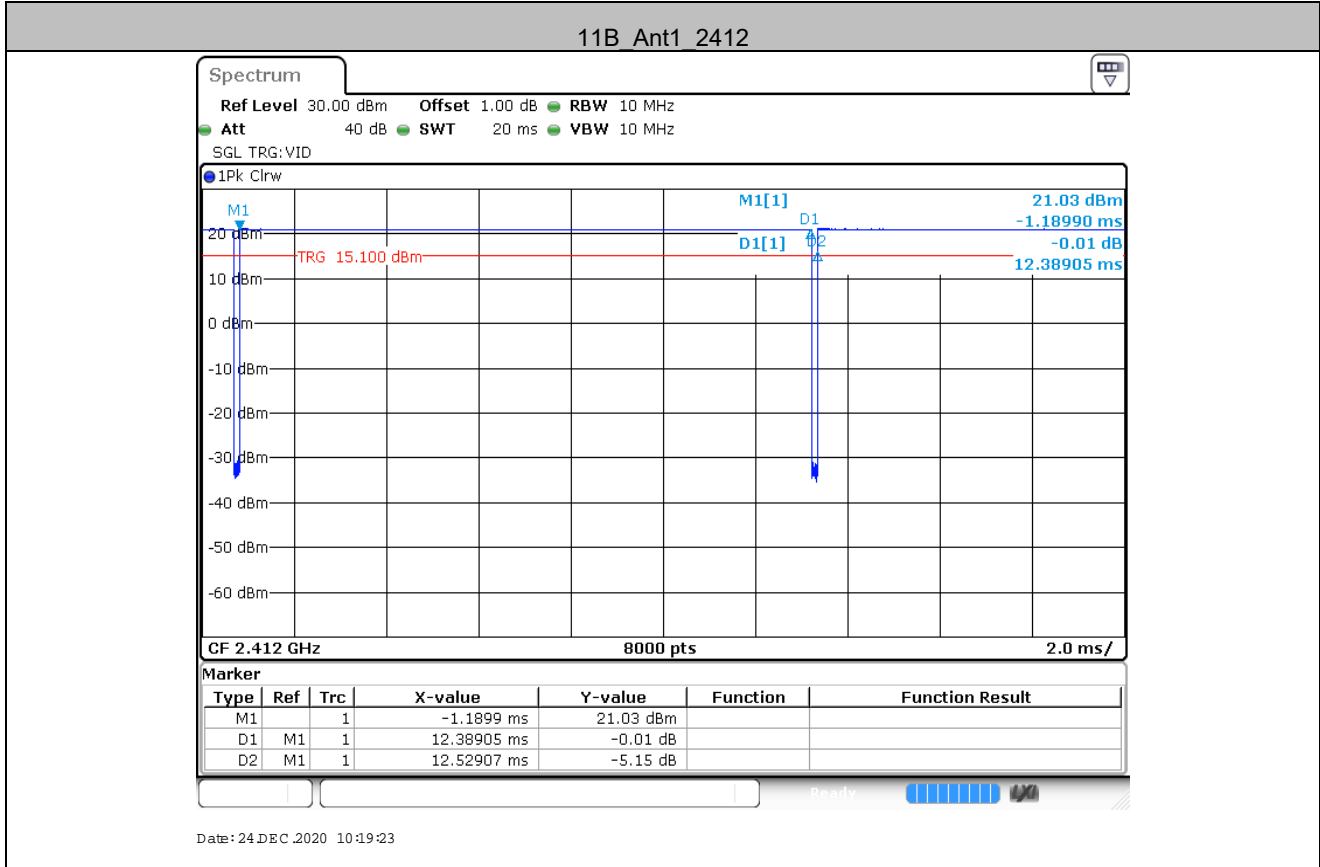
**Duty Cycle**  
**Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.39	12.53	98.88	---	PASS
		2437	12.40	12.53	98.96	---	PASS
		2462	12.40	12.53	98.96	---	PASS
11G	Ant1	2412	2.05	2.09	98.09	---	PASS
		2437	2.05	2.09	98.09	---	PASS
		2462	2.05	2.09	98.09	---	PASS
11N20SISO	Ant1	2412	1.91	1.95	97.95	---	PASS
		2437	1.91	1.95	97.95	---	PASS
		2462	1.91	1.95	97.95	---	PASS
11N40SISO	Ant1	2422	0.94	0.99	94.95	---	PASS
		2437	0.94	0.99	94.95	---	PASS
		2452	0.94	0.99	94.95	---	PASS

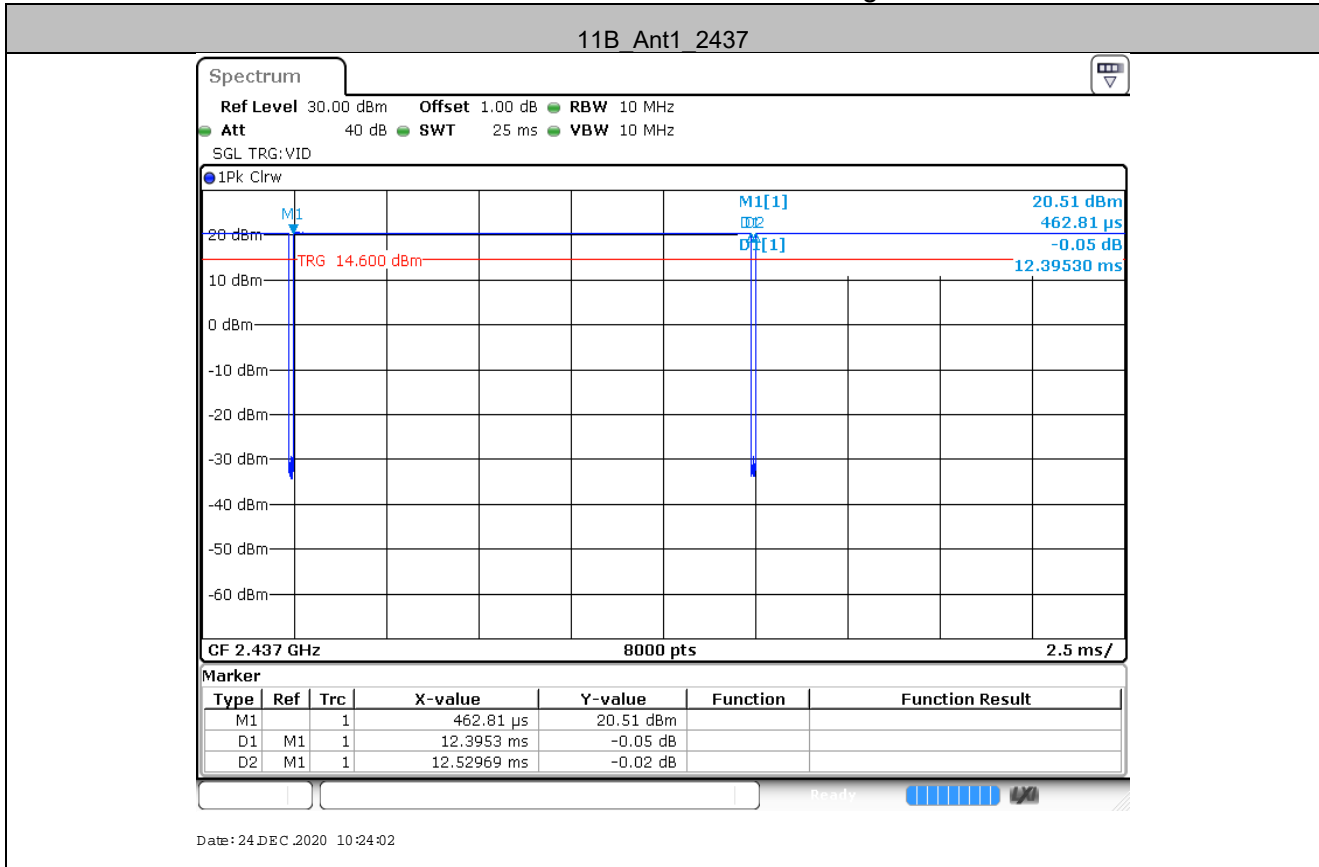


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### Test Graphs

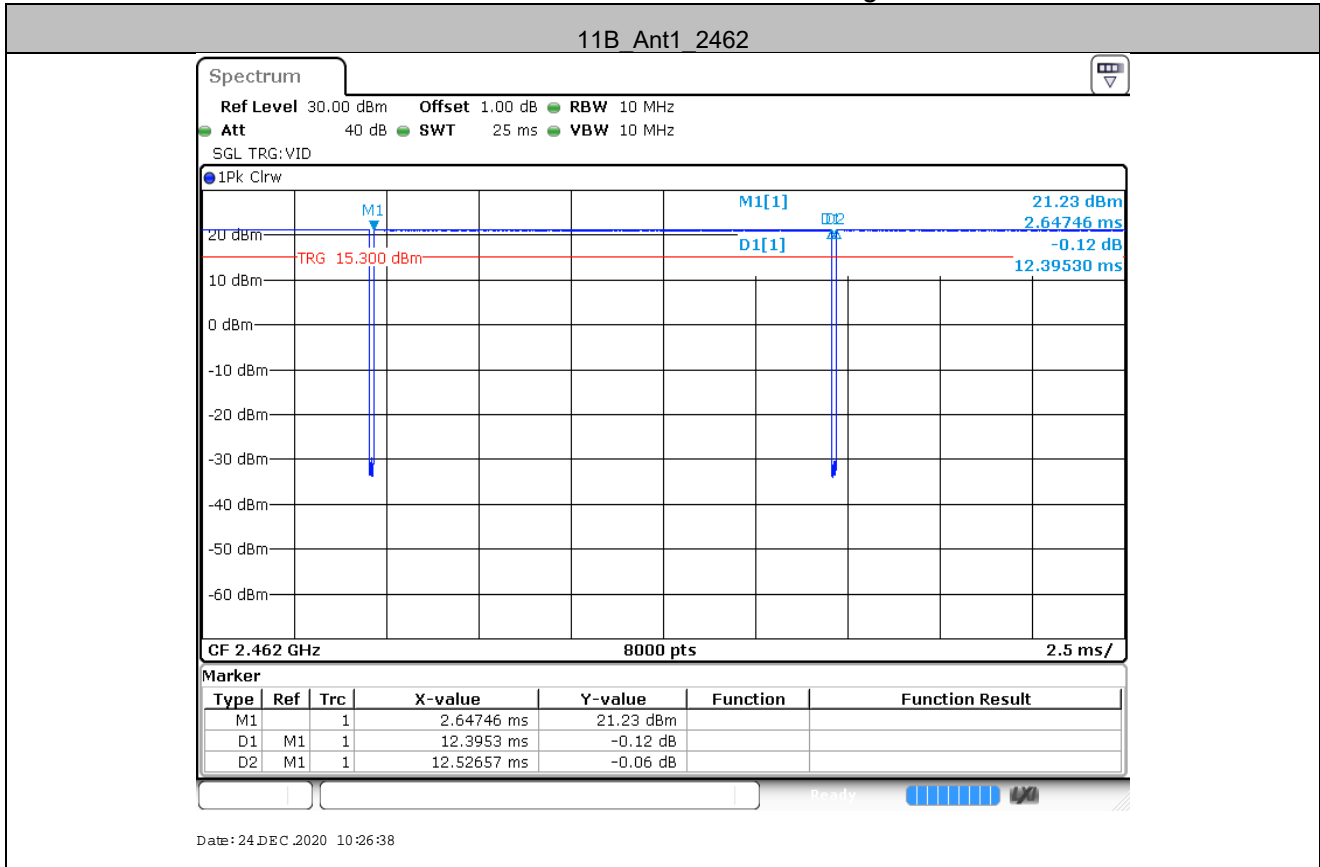


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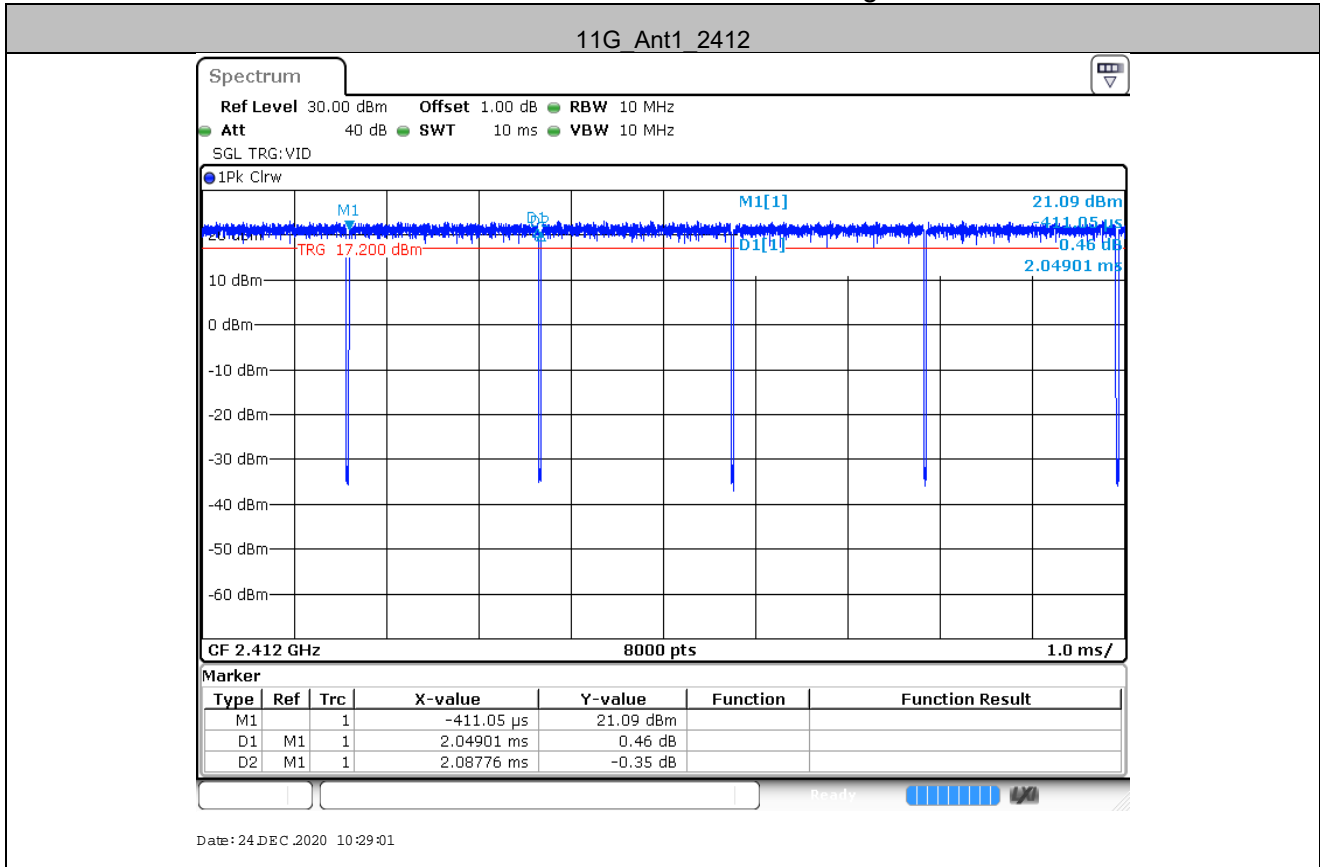
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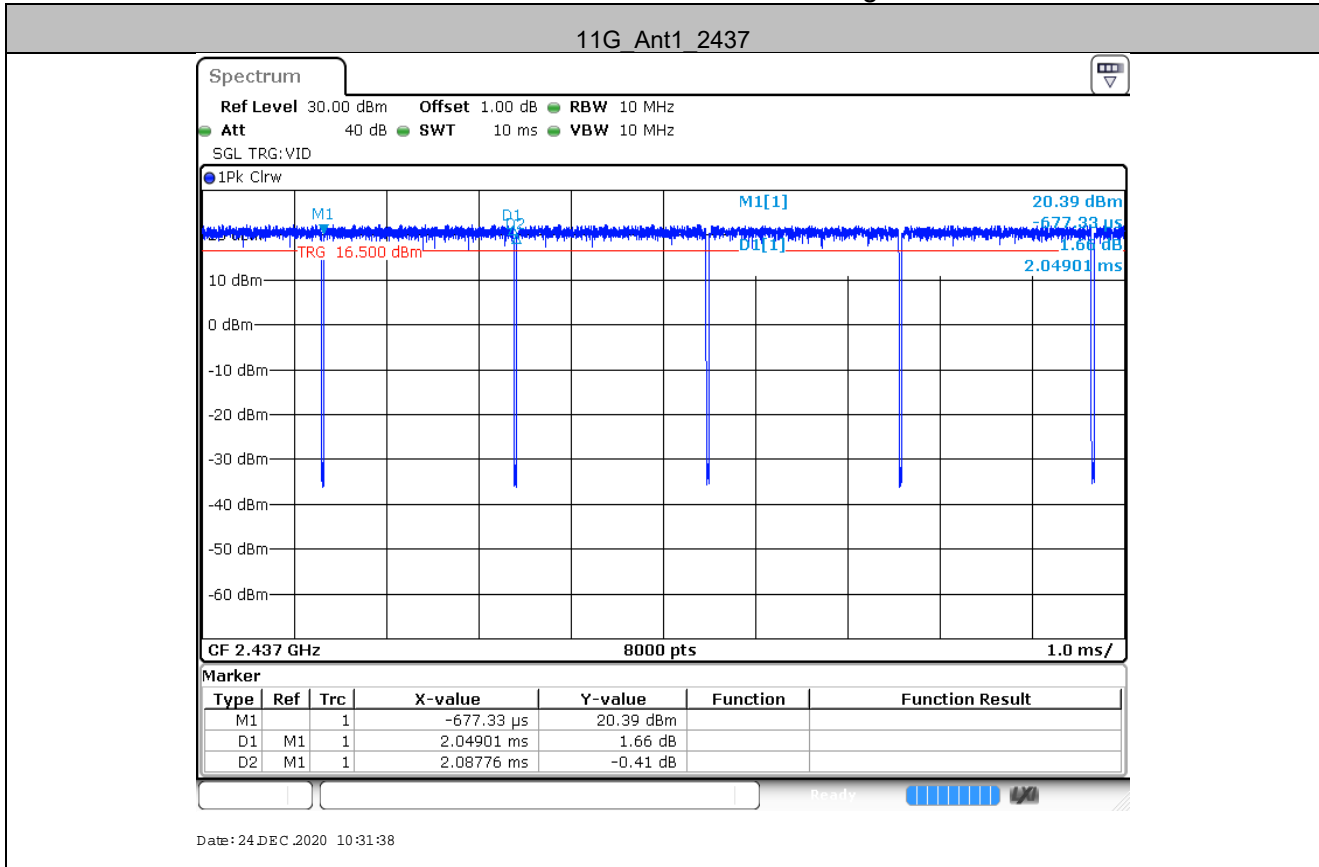
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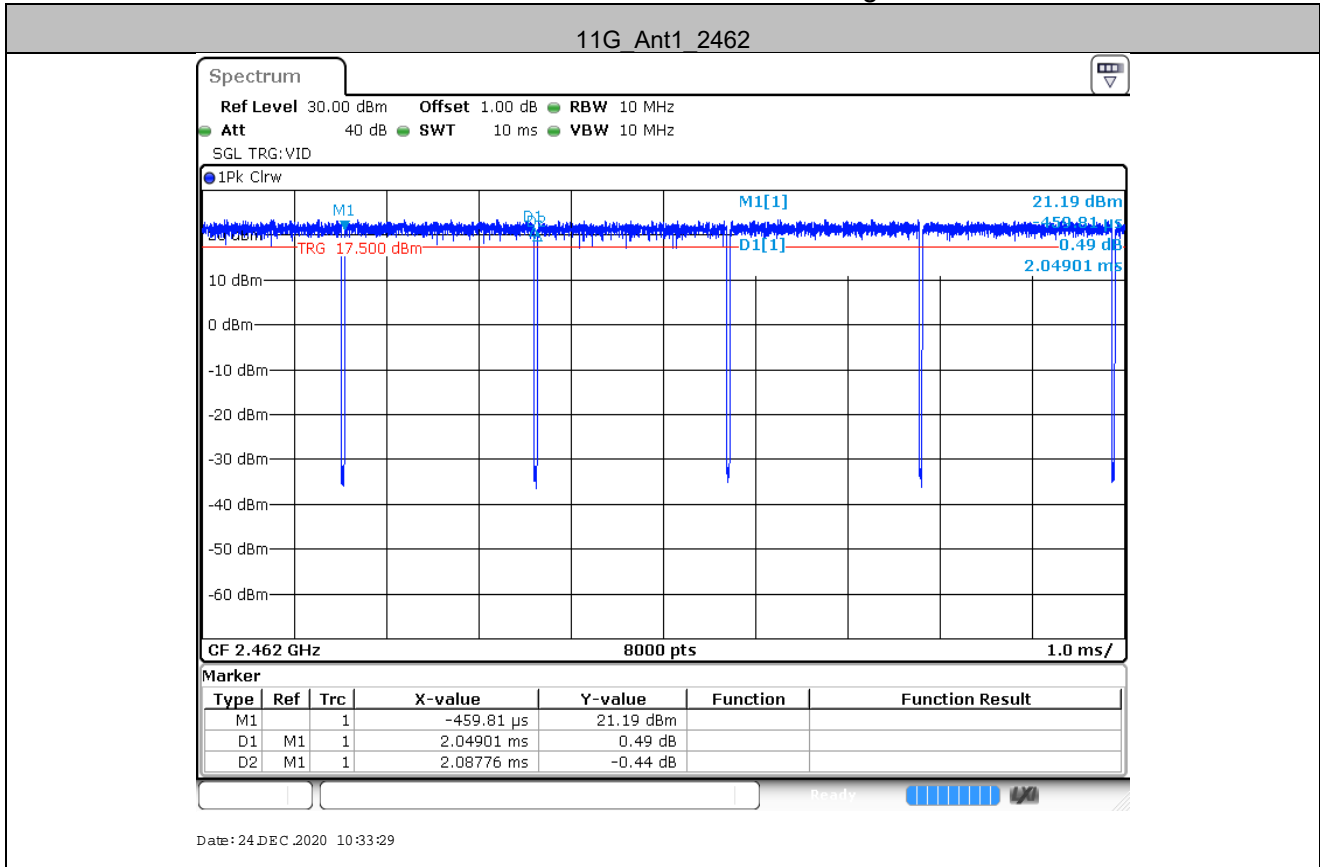
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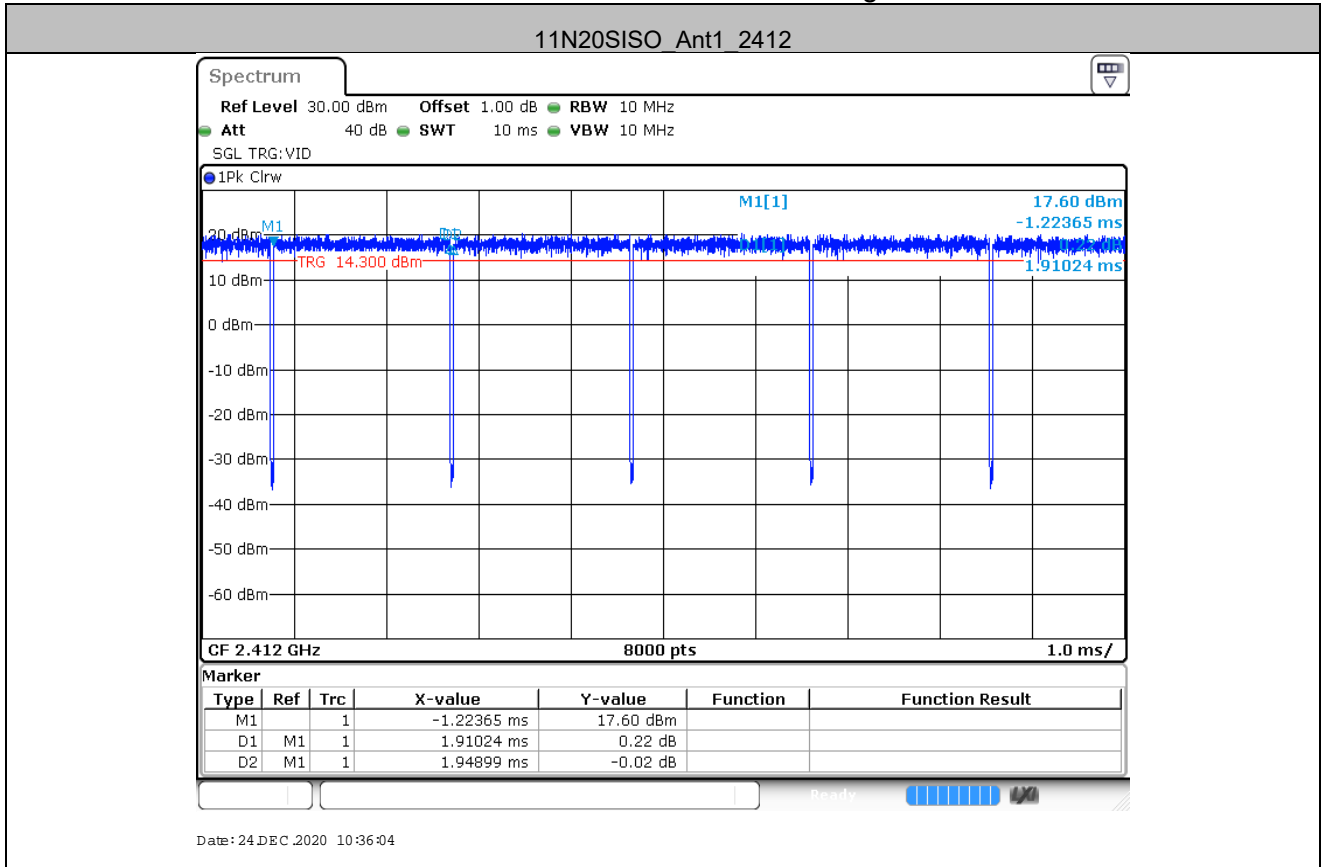
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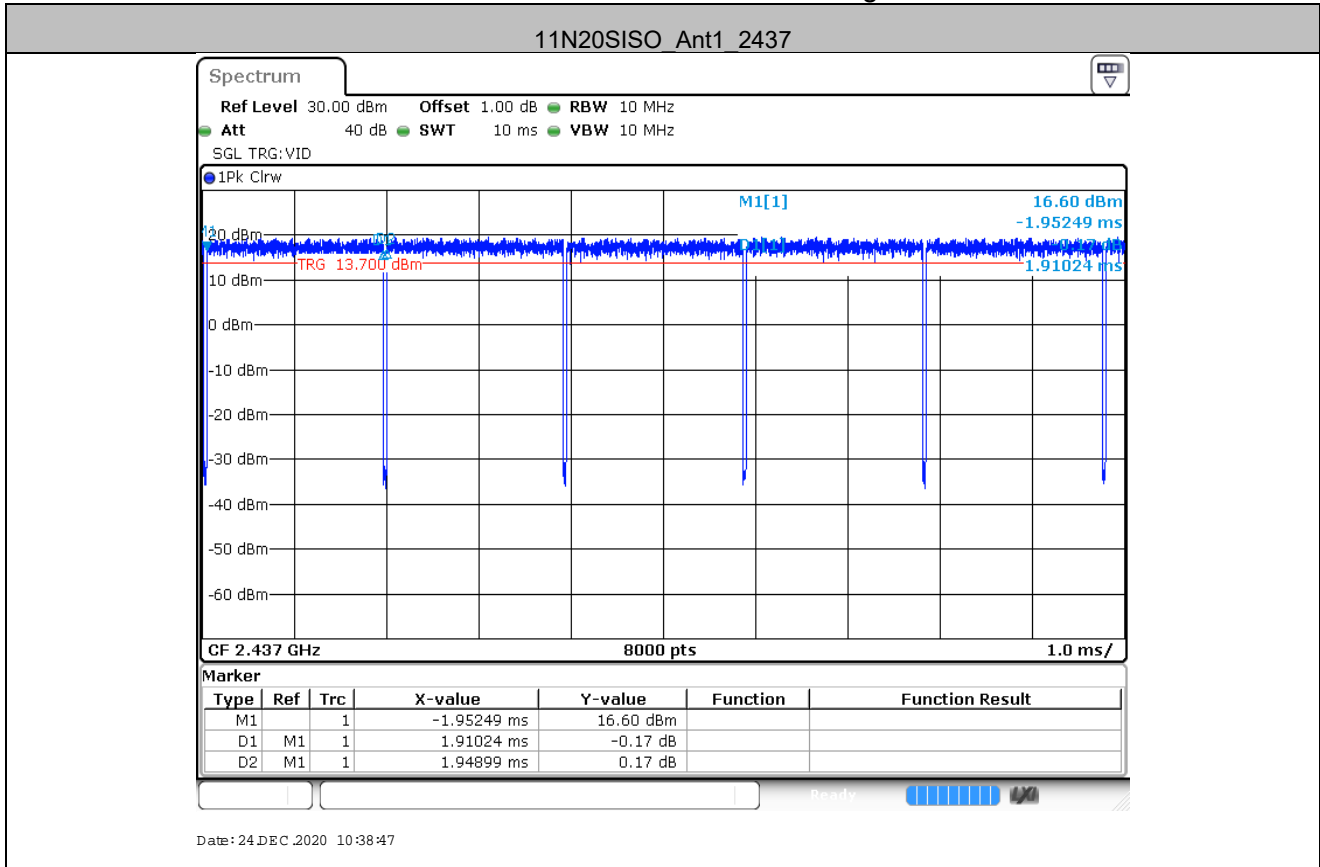
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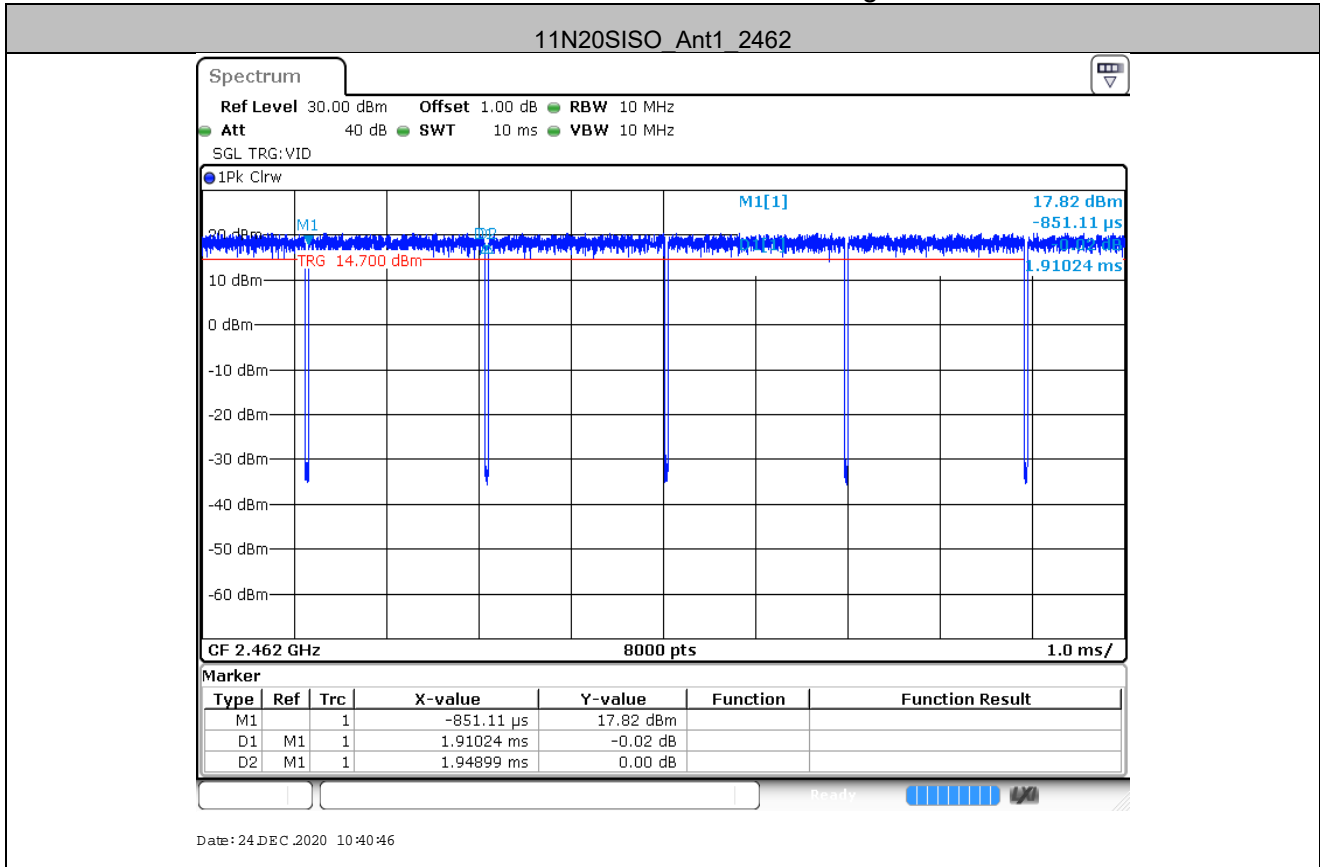
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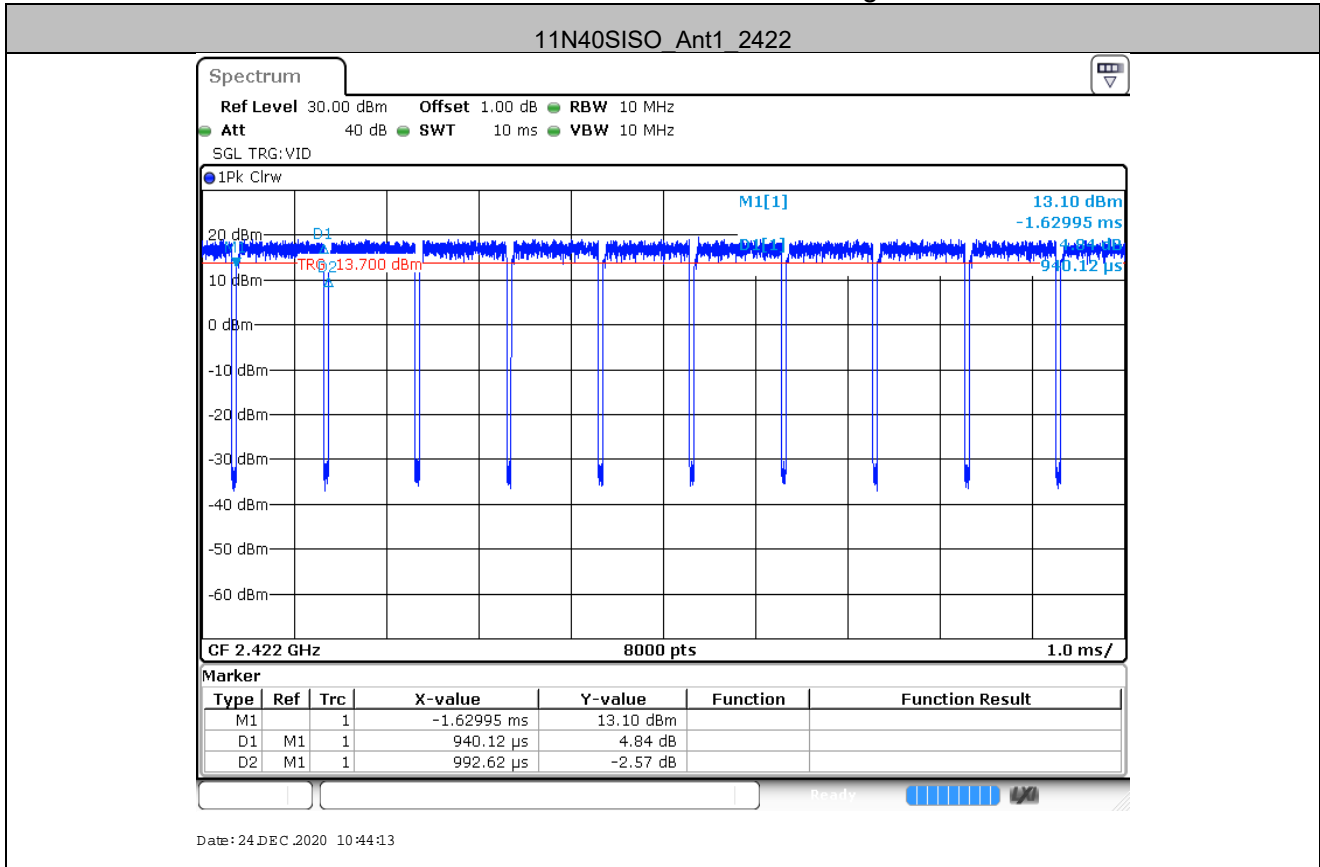
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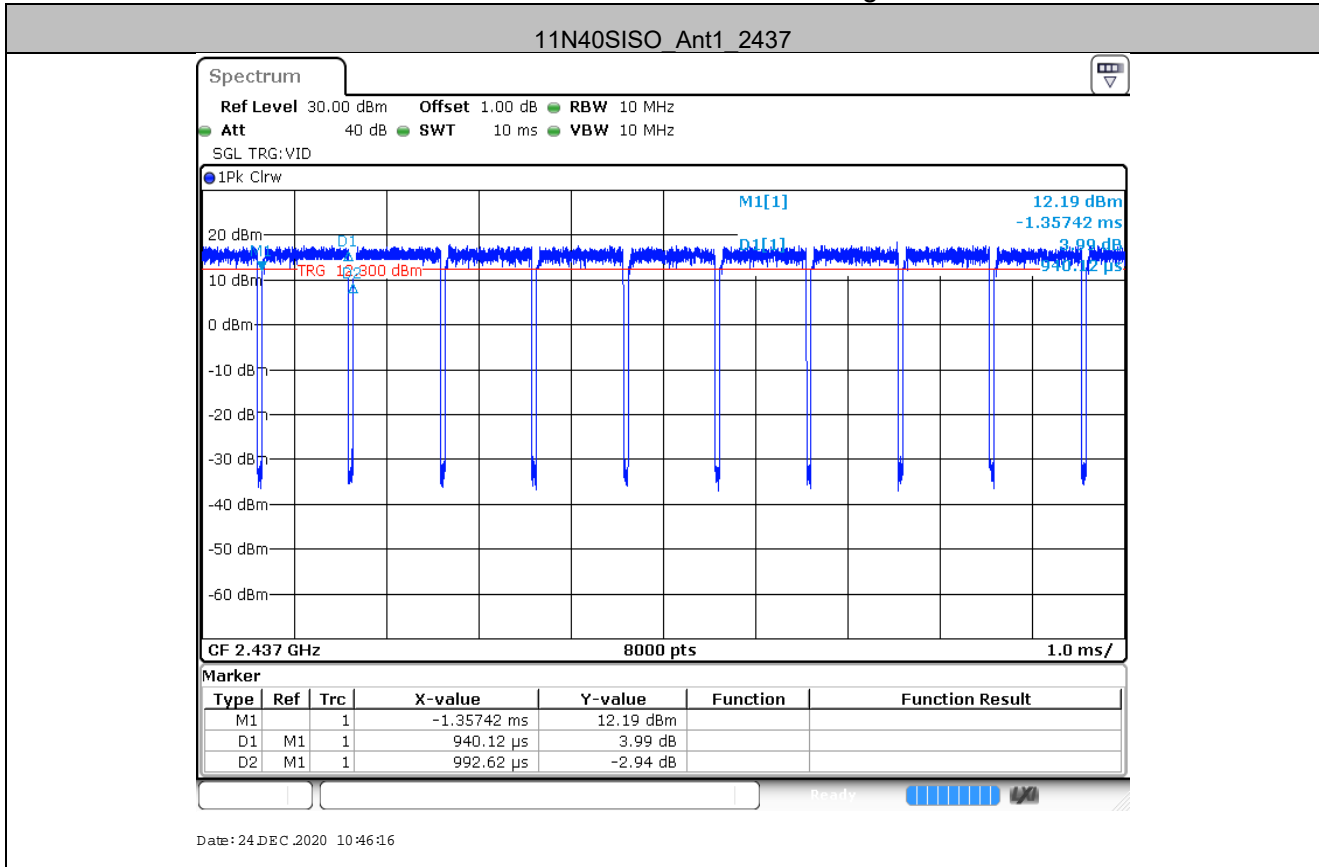


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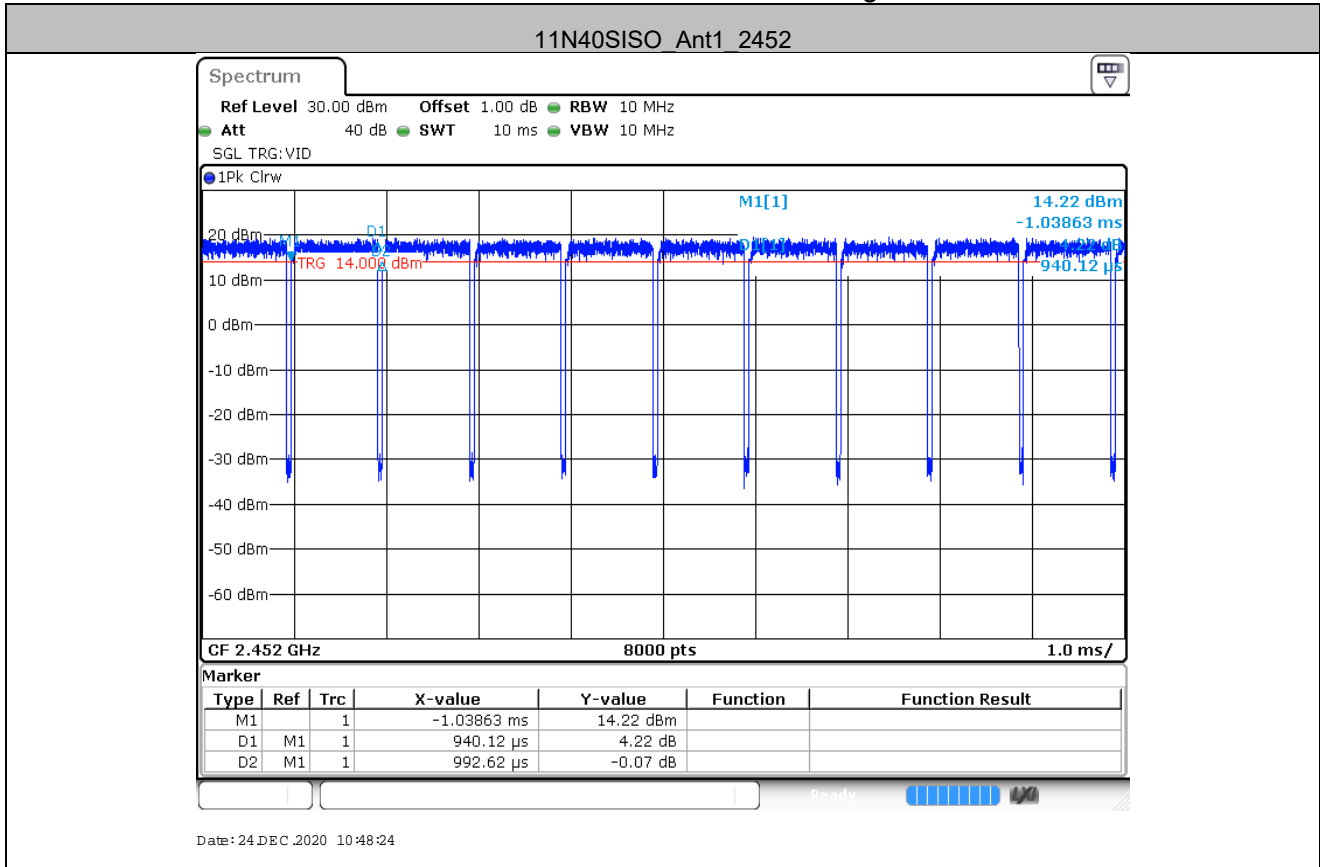
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