

# FCC TEST REPORT

**Application No:** ZR/2020/B0016  
**Applicant:** SMT TELECOMM HK LIMITED  
**Address of Applicant:** UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL  
**Manufacturer:** SMT TELECOMM HK LIMITED  
**Address of Manufacturer:** UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL  
**EUT Description:** tablet  
**Model No.:** Inspire 4.0  
**Trade Mark:** GTL  
**FCC ID:** 2AIMEI40  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Test Method:** KDB558074 D01 15.247 Meas Guidance v05r02  
 ANSI C63.10 (2013)  
**Date of Receipt:** 2020/11/18  
**Date of Test:** 2020/11/18 to 2020/12/7  
**Date of Issue:** 2021/3/8

<b>Test Result:</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT 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		2021/3/8		Original

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



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## 2 Test Summary

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



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Contents

**1 VERSION.....2**

**2 TEST SUMMARY .....3**

**3 GENERAL INFORMATION.....5**

3.1 CLIENT INFORMATION.....5

3.2 TEST LOCATION .....5

3.3 TEST FACILITY .....5

3.4 GENERAL DESCRIPTION OF EUT .....6

3.5 TEST ENVIRONMENT AND MODE .....8

3.6 DESCRIPTION OF SUPPORT UNITS .....8

**4 TEST RESULTS AND MEASUREMENT DATA .....9**

4.1 ANTENNA REQUIREMENT.....9

4.2 AC POWER LINE CONDUCTED EMISSIONS.....10

4.3 DUTY CYCLE .....14

4.4 CONDUCTED OUTPUT POWER .....15

4.5 DTS (6 dB) BANDWIDTH & 99% OCCUPIED BANDWIDTH .....16

4.6 POWER SPECTRAL DENSITY .....17

4.7 BAND-EDGE FOR RF CONDUCTED EMISSIONS .....18

4.8 RF CONDUCTED SPURIOUS EMISSIONS .....19

4.9 RADIATED SPURIOUS EMISSIONS.....20

    4.9.1 Radiated emission below 1GHz.....23

    4.9.2 Transmitter emission above 1GHz .....25

4.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY .....49

    4.10.1 Test plots .....51

**5 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2) .....67**

**6 EQUIPMENT LIST.....68**

**7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS.....69**



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### 3 General Information

#### 3.1 Client Information

Applicant:	SMT TELECOMM HK LIMITED
Address of Applicant:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer:	SMT TELECOMM HK LIMITED
Address of Manufacturer:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL

#### 3.2 Test Location

##### Lab A:

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

##### Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086



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### 3.3 Test Facility

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

**Lab A:**

**• 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.

**Lab B:**

**A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Designation Number: CN1271.



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### 3.4 General Description of EUT

EUT Description::	tablet
Model No.:	Inspire 4.0
Trade Mark:	GTL
Hardware Version:	P3
Software Version:	Inspire 4.0_09162020
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 type="checkbox"/> 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 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
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 checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N), <input checked="" type="checkbox"/> MIMO (for 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	3.0dBi(ANT1); 2.0dBi(ANT2);
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		



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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)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

### 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 3.0dBi.</p>	



## 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:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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,</li> <li>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.</li> <li>5) 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.</li> </ol>		



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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 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>
<p>Remark:</p>	<p>The Emission Test data were reused from the report no:XZR/2020/B001601</p>

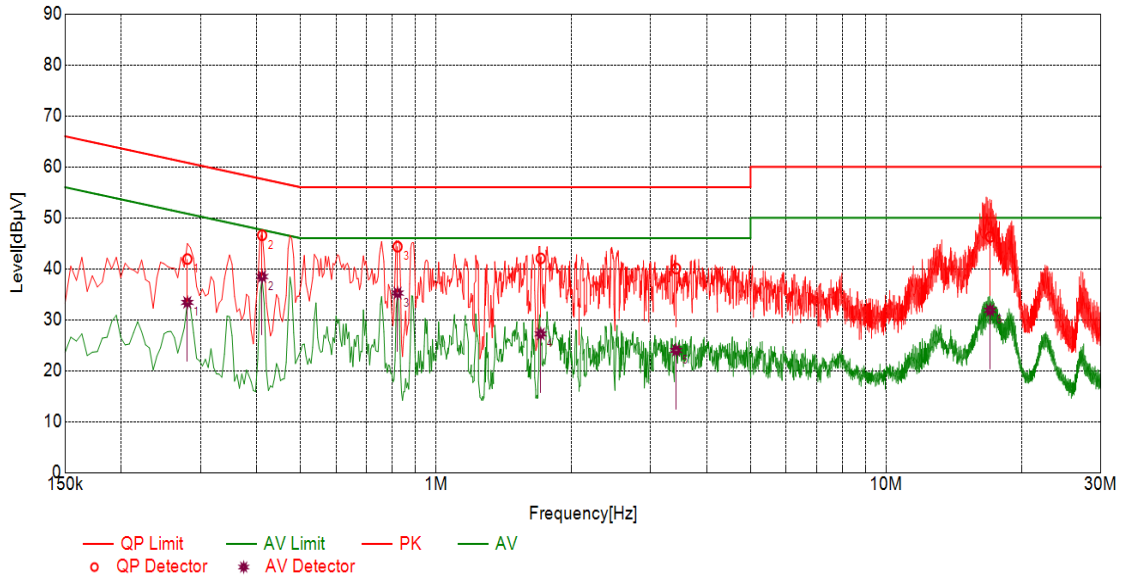


**Measurement Data**

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**

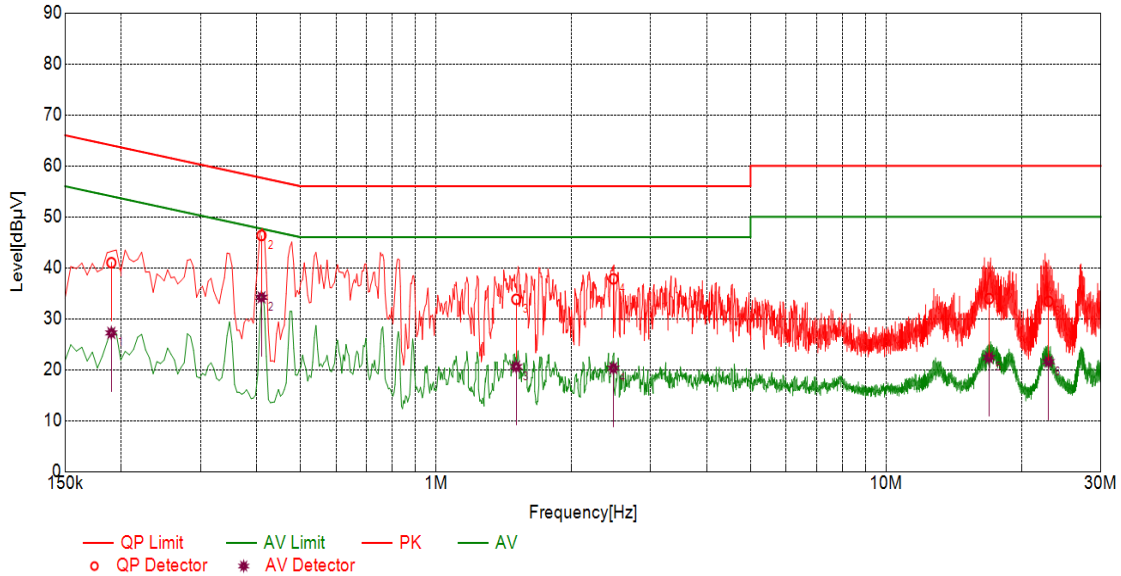
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Type
1	0.2804	10.10	41.91	60.80	18.89	33.41	50.80	17.39	L
2	0.4110	10.10	46.57	57.63	11.06	38.47	47.63	9.16	L
3	0.8218	10.10	44.34	56.00	11.66	35.23	46.00	10.77	L
4	1.7091	10.10	42.04	56.00	13.96	27.21	46.00	18.79	L
5	3.4159	10.10	40.05	56.00	15.95	23.98	46.00	22.02	L
6	17.0238	10.11	46.26	60.00	13.74	31.85	50.00	18.15	L



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Neutral Line:



**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Type
1	0.1901	10.10	41.00	64.03	23.03	27.21	54.03	26.82	N
2	0.4097	10.10	46.35	57.65	11.30	34.20	47.65	13.45	N
3	1.5080	10.10	33.81	56.00	22.19	20.59	46.00	25.41	N
4	2.4776	10.10	37.82	56.00	18.18	20.30	46.00	25.70	N
5	16.9305	10.11	33.96	60.00	26.04	22.39	50.00	27.61	N
6	22.9583	10.11	33.41	60.00	26.59	21.58	50.00	28.42	N

**Remarks:**

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





### 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);
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 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);
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix**





### 4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
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);
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix**



### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
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) ;
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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

The detailed test data see: **Appendix**



### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
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);
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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

**Remark:**

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz 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.

The detailed test data see: **Appendix**



### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m 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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	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:	
-------------	--



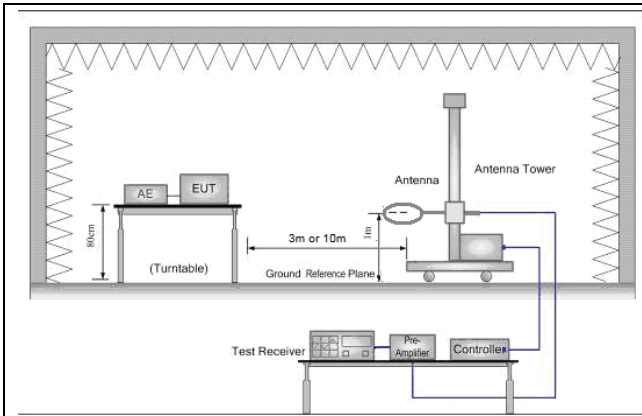


Figure 1. Below 30MHz

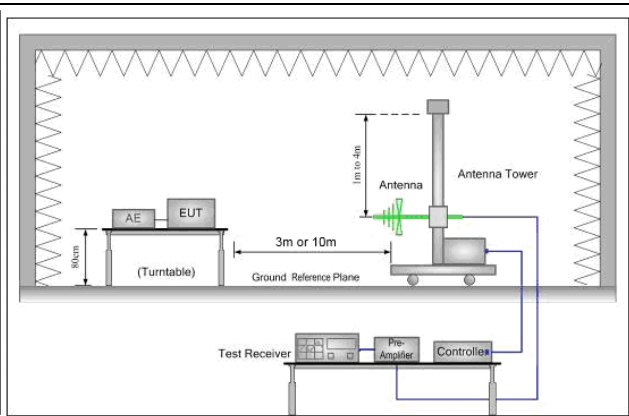


Figure 2. 30MHz to 1GHz

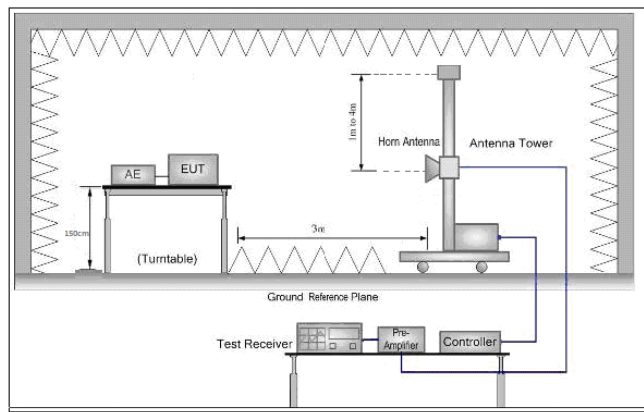


Figure 3. Above 1 GHz

**Test Procedure:**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz, RBW=1MHz for  $f > 1$ GHz ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds

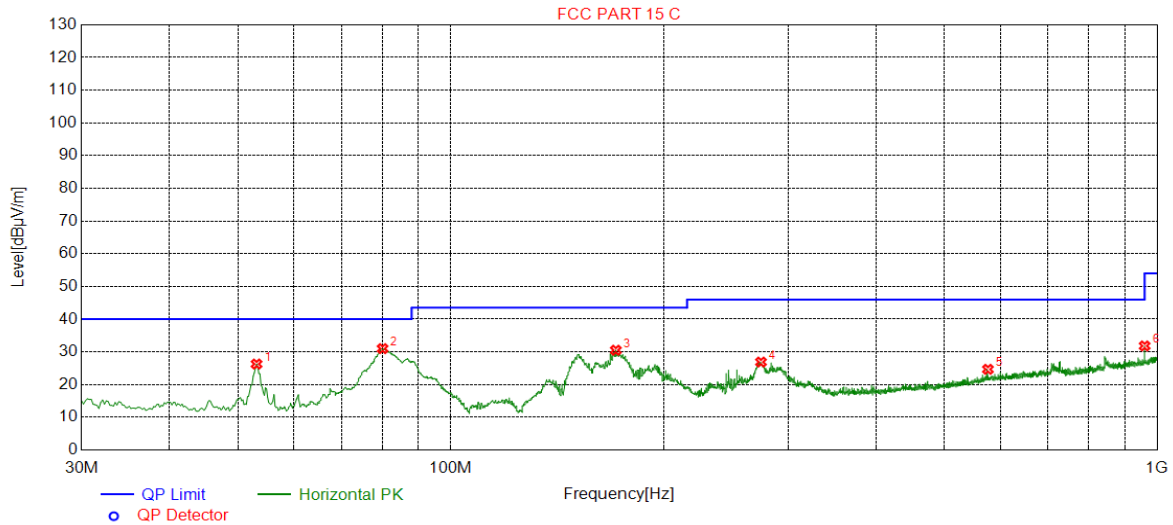


	<p>On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math></p> <p>Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.</p> <p>Average Emission Level = Peak Emission Level + 20*log(Duty cycl</p> <p>f. For each suspected emission, 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>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	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); 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601



### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting



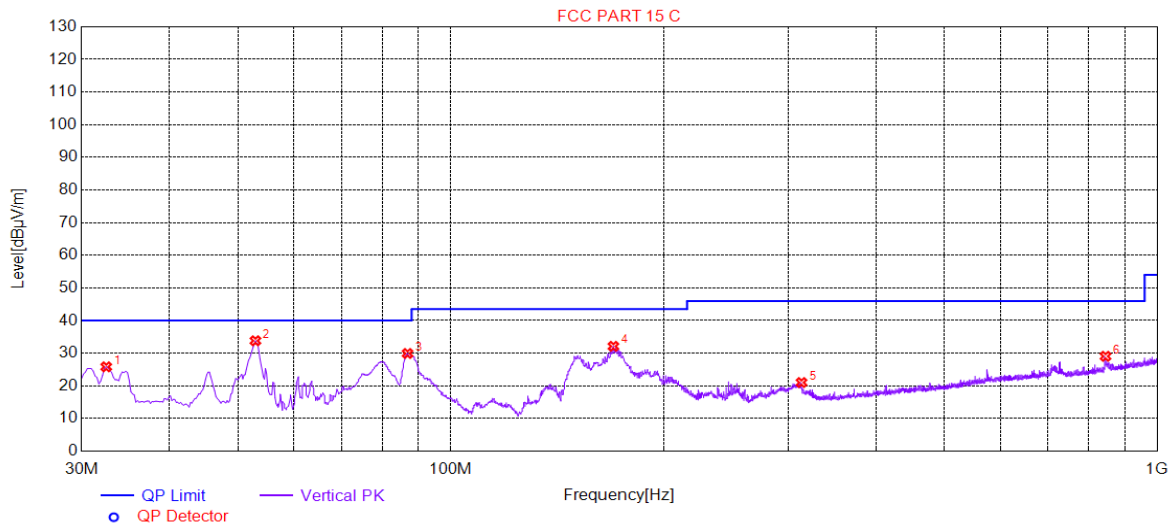
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.0906	26.30	40.00	13.70	200	49	Horizontal
2	80.0620	31.00	40.00	9.00	200	247	Horizontal
3	171.2603	30.52	43.50	12.98	200	236	Horizontal
4	274.8770	26.90	46.00	19.10	100	110	Horizontal
5	576.0252	24.68	46.00	21.32	200	236	Horizontal
6	960.0280	31.83	54.00	22.17	100	174	Horizontal

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Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.5225	25.84	40.00	14.16	100	191	Vertical
2	52.8966	33.82	40.00	6.18	200	241	Vertical
3	86.8534	29.93	40.00	10.07	100	250	Vertical
4	169.9020	32.12	43.50	11.38	200	356	Vertical
5	313.6847	21.03	46.00	24.97	100	189	Vertical
6	845.1570	29.07	46.00	16.93	100	273	Vertical

**Final Data List**



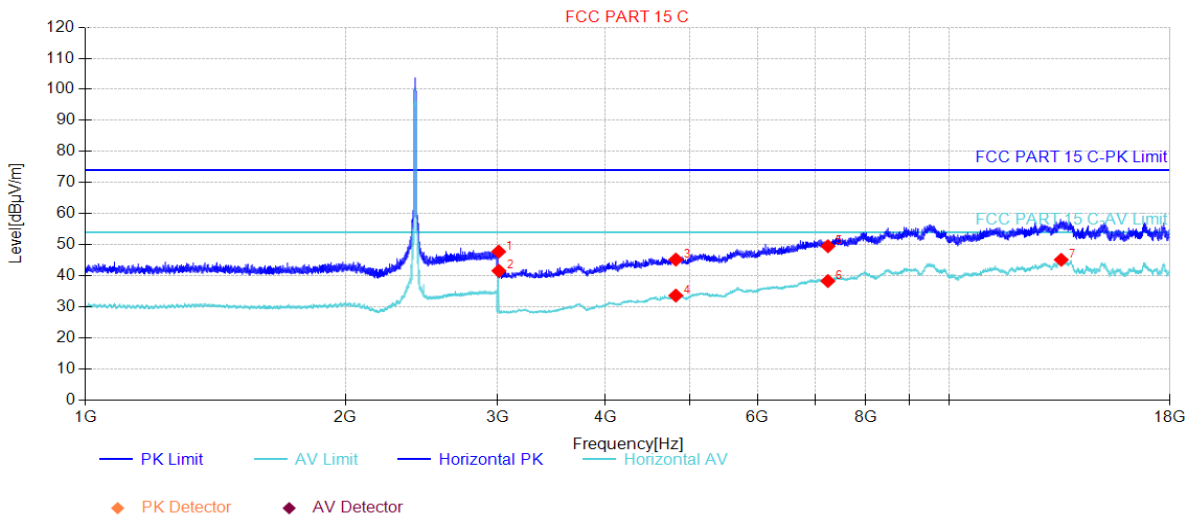
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### 4.9.2 Transmitter emission above 1GHz

#### 4.9.2.1 802.11B\_Channel 1 ANT 1



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	3009.000	47.75	-15.86	74.00	26.25	100	Horizontal
2	3010.501	41.57	-15.87	54.00	12.43	100	Horizontal
3	4824.000	45.19	-10.56	74.00	28.81	200	Horizontal
4	4824.000	33.60	-10.56	54.00	20.40	200	Horizontal
5	7236.000	49.48	-2.59	74.00	24.52	200	Horizontal
6	7236.000	38.28	-2.59	54.00	15.72	100	Horizontal
7	13474.04	45.12	3.68	54.00	8.88	100	Horizontal

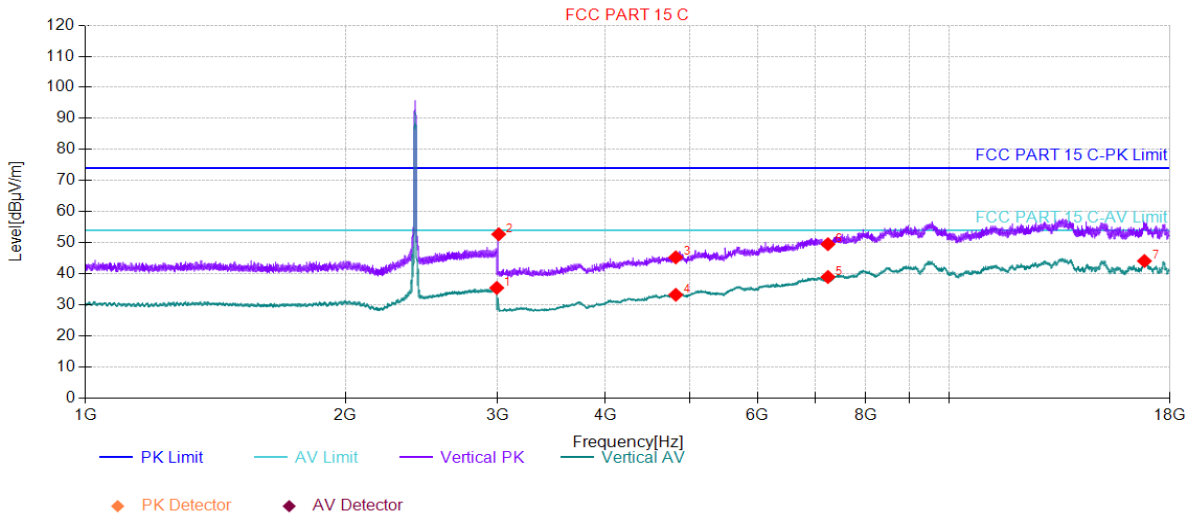
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**4.9.2.2 802.11B\_Channel 1 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.399	35.42	7.38	54.00	18.58	200	Vertical
2	3009.000	52.69	-15.86	74.00	21.31	300	Vertical
3	4824.000	45.25	-10.56	74.00	28.75	200	Vertical
4	4824.000	33.19	-10.56	54.00	20.81	300	Vertical
5	7236.000	38.93	-2.59	54.00	15.07	200	Vertical
6	7236.000	49.50	-2.59	74.00	24.50	200	Vertical
7	16819.38	44.08	4.41	54.00	9.92	100	Vertical

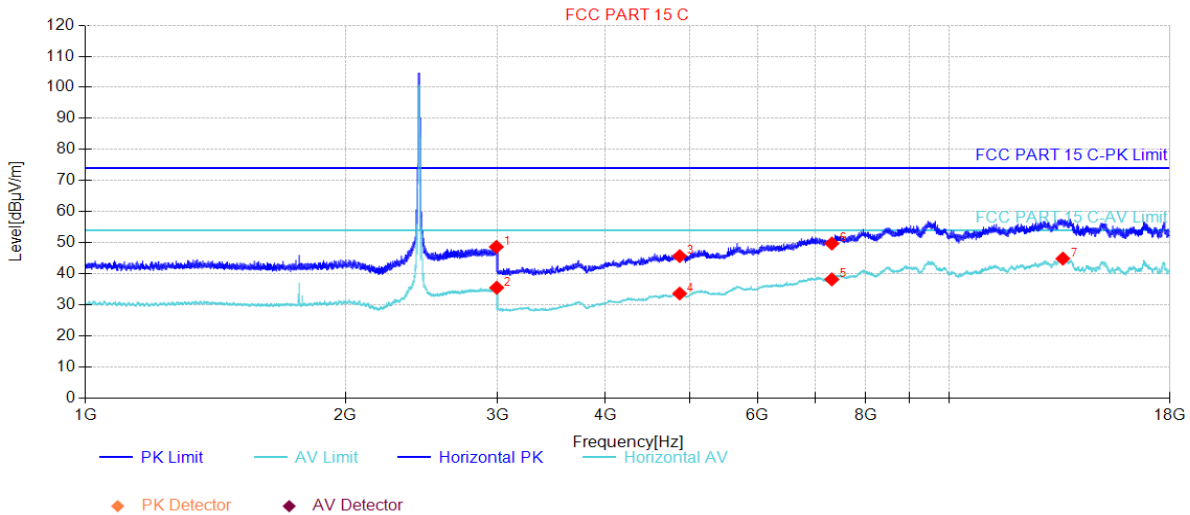
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**4.9.2.3 802.11B\_Channel 6 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.399	48.63	7.37	74.00	25.37	300	Horizontal
2	2992.999	35.48	7.38	54.00	18.52	300	Horizontal
3	4874.000	45.66	-10.40	74.00	28.34	300	Horizontal
4	4874.000	33.59	-10.40	54.00	20.41	100	Horizontal
5	7311.000	38.16	-2.57	54.00	15.84	100	Horizontal
6	7311.000	49.72	-2.57	74.00	24.28	100	Horizontal
7	13534.05	44.85	3.97	54.00	9.15	200	Horizontal

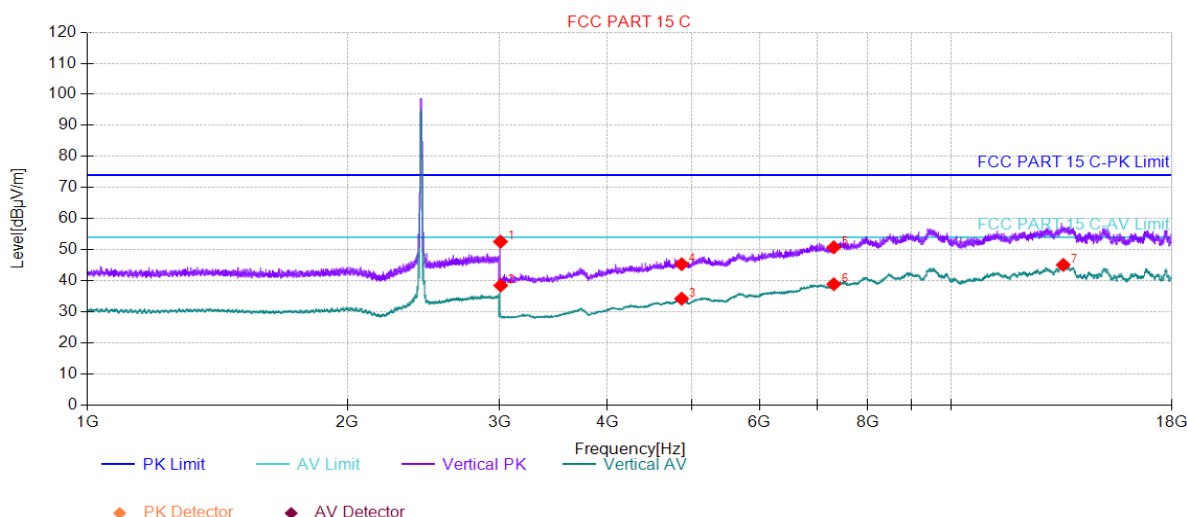
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**4.9.2.4 802.11B\_Channel 6 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	3007.500	52.57	-15.86	74.00	21.43	100	Vertical
2	3009.000	38.44	-15.86	54.00	15.56	100	Vertical
3	4874.000	34.21	-10.40	54.00	19.79	200	Vertical
4	4874.000	45.30	-10.40	74.00	28.70	100	Vertical
5	7311.000	50.75	-2.57	74.00	23.25	200	Vertical
6	7311.000	38.85	-2.57	54.00	15.15	300	Vertical
7	13474.04	45.09	3.68	54.00	8.91	300	Vertical

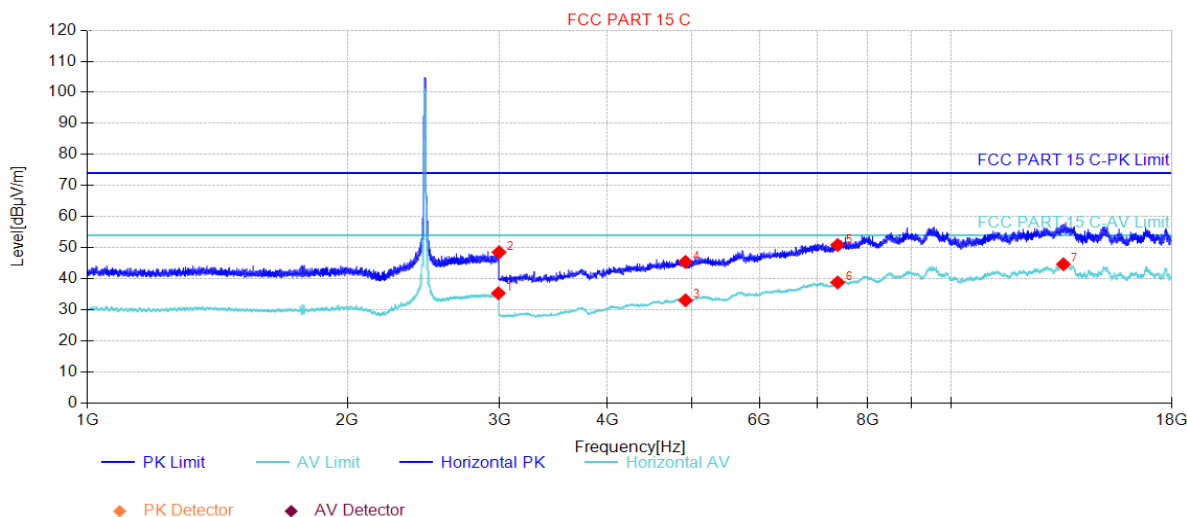
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**4.9.2.5 802.11B\_Channel 11 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.599	35.33	7.37	54.00	18.67	100	Horizontal
2	2995.399	48.50	7.39	74.00	25.50	200	Horizontal
3	4924.000	33.04	-10.22	54.00	20.96	200	Horizontal
4	4924.000	45.41	-10.22	74.00	28.59	200	Horizontal
5	7386.000	50.83	-2.06	74.00	23.17	100	Horizontal
6	7386.000	38.78	-2.06	54.00	15.22	100	Horizontal
7	13480.04	44.64	3.73	54.00	9.36	200	Horizontal

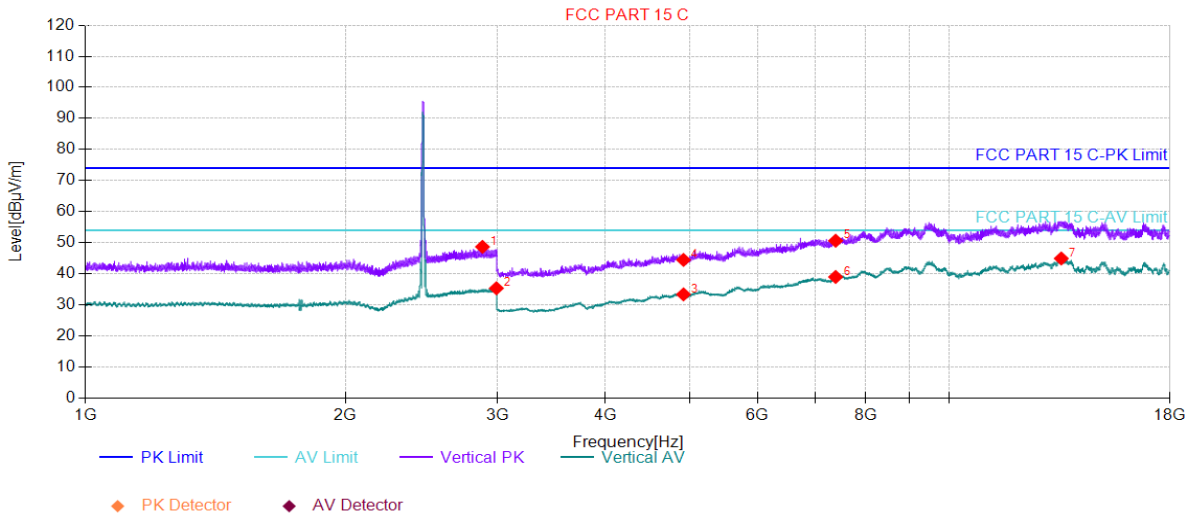
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**4.9.2.6 802.11B\_Channel 11 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2881.788	48.64	6.91	74.00	25.36	300	Vertical
2	2990.599	35.30	7.37	54.00	18.70	200	Vertical
3	4924.000	33.34	-10.22	54.00	20.66	200	Vertical
4	4924.000	44.43	-10.22	74.00	29.57	300	Vertical
5	7386.000	50.61	-2.06	74.00	23.39	200	Vertical
6	7386.000	38.95	-2.06	54.00	15.05	100	Vertical
7	13475.54	44.90	3.69	54.00	9.10	200	Vertical

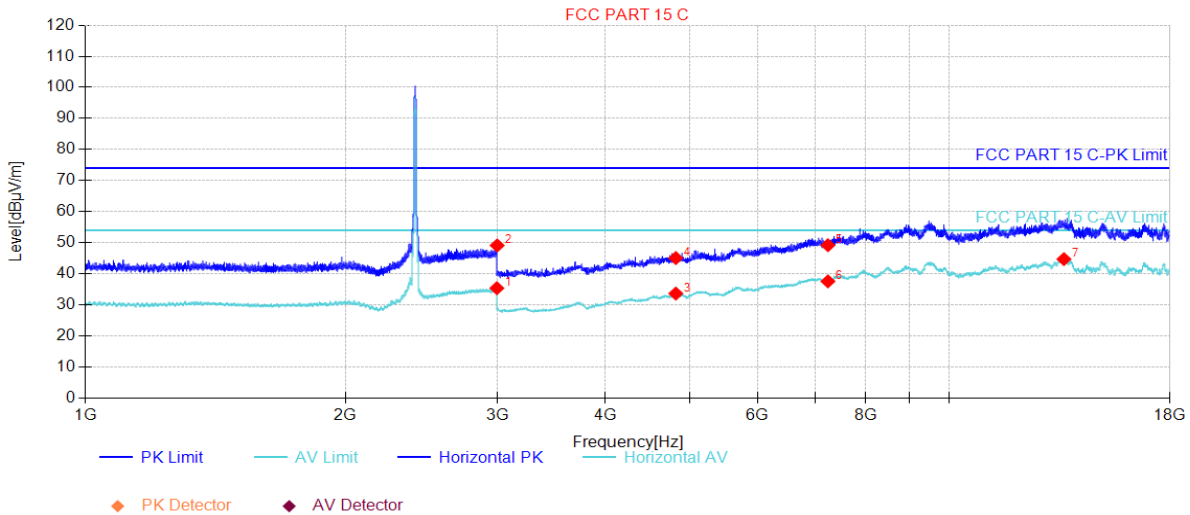
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**4.9.2.7 802.11B\_Channel 1 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.599	35.33	7.39	54.00	18.67	100	Horizontal
2	2996.799	49.09	7.40	74.00	24.91	200	Horizontal
3	4824.000	33.60	-10.56	54.00	20.40	100	Horizontal
4	4824.000	45.04	-10.56	74.00	28.96	200	Horizontal
5	7236.000	49.18	-2.59	74.00	24.82	100	Horizontal
6	7236.000	37.53	-2.59	54.00	16.47	100	Horizontal
7	13571.55	44.69	4.04	54.00	9.31	200	Horizontal

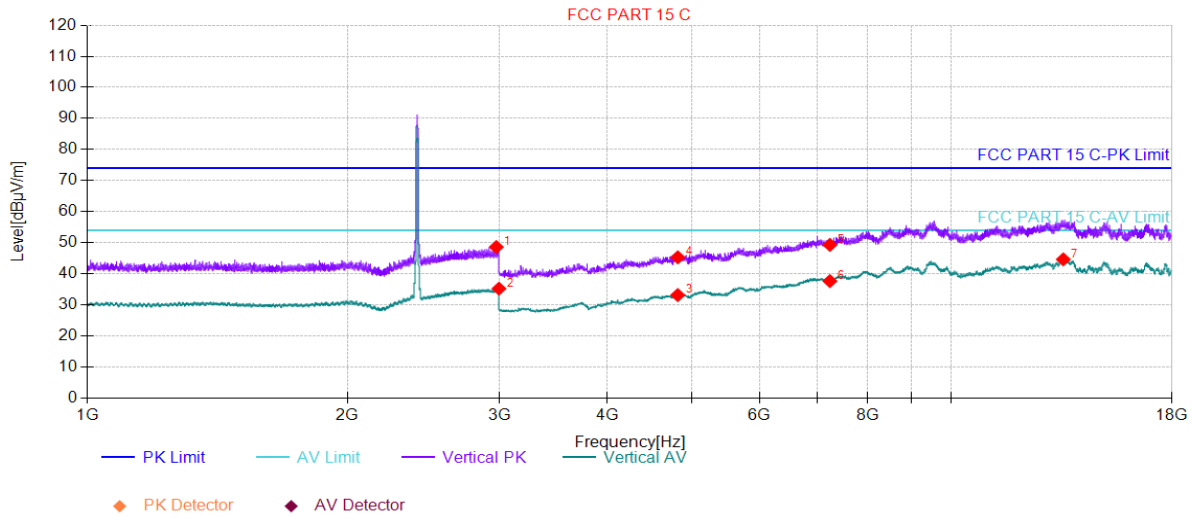
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**4.9.2.8 802.11B\_Channel 1 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2973.997	48.57	7.29	74.00	25.43	200	Vertical
2	2995.199	35.19	7.39	54.00	18.81	300	Vertical
3	4824.000	33.11	-10.56	54.00	20.89	200	Vertical
4	4824.000	45.26	-10.56	74.00	28.74	300	Vertical
5	7236.000	49.28	-2.59	74.00	24.72	200	Vertical
6	7236.000	37.61	-2.59	54.00	16.39	100	Vertical
7	13477.04	44.61	3.71	54.00	9.39	200	Vertical

**Final Data List**

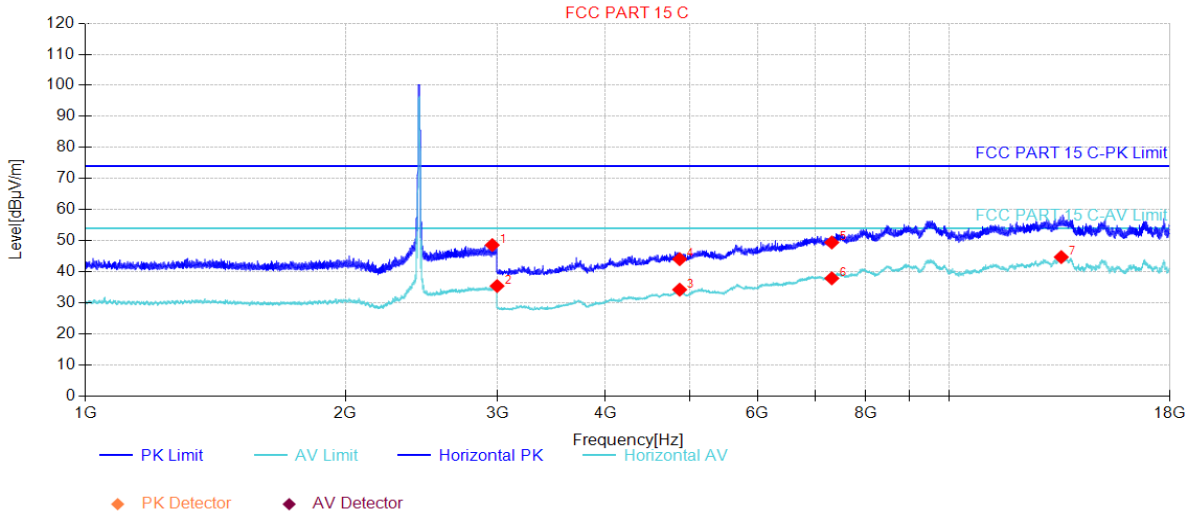


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**4.9.2.9 802.11B\_Channel 6 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2957.995	48.57	7.22	74.00	25.43	100	Horizontal
2	2996.399	35.38	7.39	54.00	18.62	100	Horizontal
3	4874.000	34.21	-10.40	54.00	19.79	200	Horizontal
4	4874.000	44.04	-10.40	74.00	29.96	100	Horizontal
5	7311.000	49.41	-2.57	74.00	24.59	200	Horizontal
6	7311.000	37.86	-2.57	54.00	16.14	100	Horizontal
7	13475.54	44.70	3.69	54.00	9.30	200	Horizontal

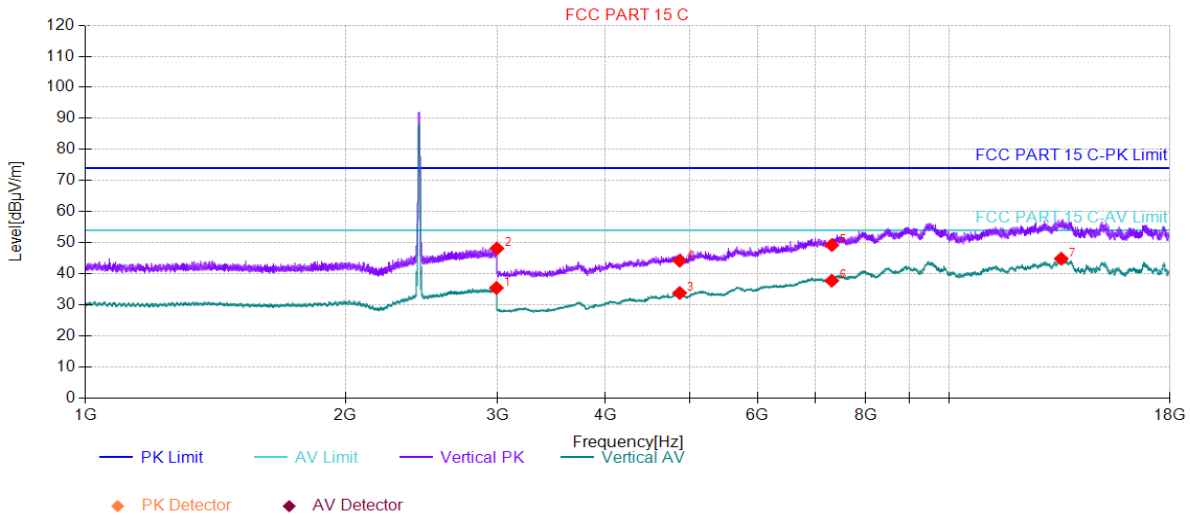
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**4.9.2.10 802.11B\_Channel 6 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.799	35.41	7.37	54.00	18.59	300	Vertical
2	2994.999	48.11	7.39	74.00	25.89	200	Vertical
3	4874.000	33.77	-10.40	54.00	20.23	200	Vertical
4	4874.000	44.18	-10.40	74.00	29.82	100	Vertical
5	7311.000	49.21	-2.57	74.00	24.79	200	Vertical
6	7311.000	37.74	-2.57	54.00	16.26	200	Vertical
7	13474.04	44.81	3.68	54.00	9.19	100	Vertical

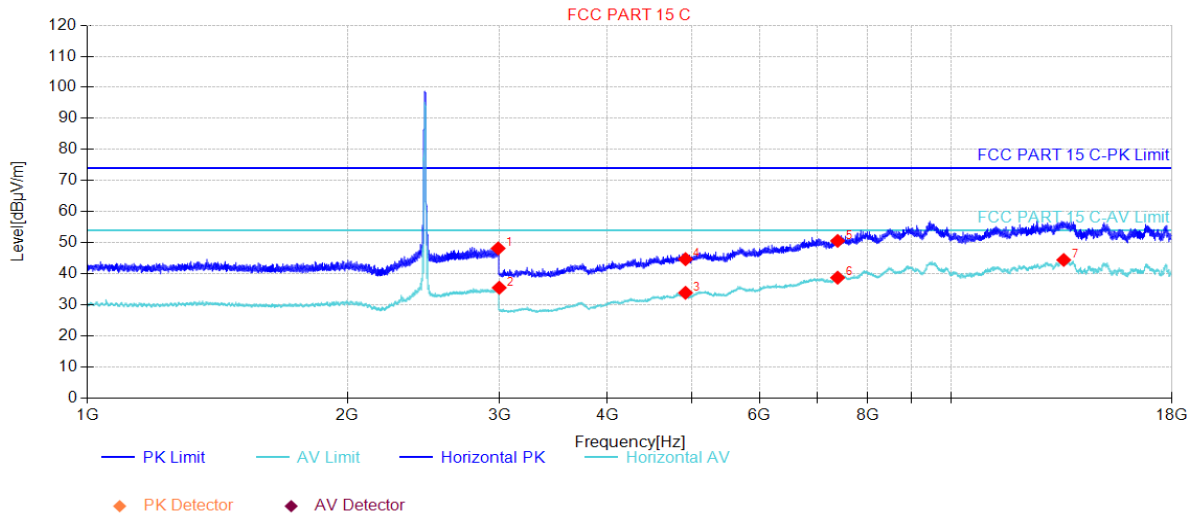
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**4.9.2.11 802.11B\_Channel 11 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2988.798	48.14	7.36	74.00	25.86	100	Horizontal
2	2997.199	35.48	7.40	54.00	18.52	100	Horizontal
3	4924.000	33.85	-10.22	54.00	20.15	200	Horizontal
4	4924.000	44.68	-10.22	74.00	29.32	200	Horizontal
5	7386.000	50.56	-2.06	74.00	23.44	200	Horizontal
6	7386.000	38.71	-2.06	54.00	15.29	100	Horizontal
7	13492.04	44.42	3.84	54.00	9.58	100	Horizontal

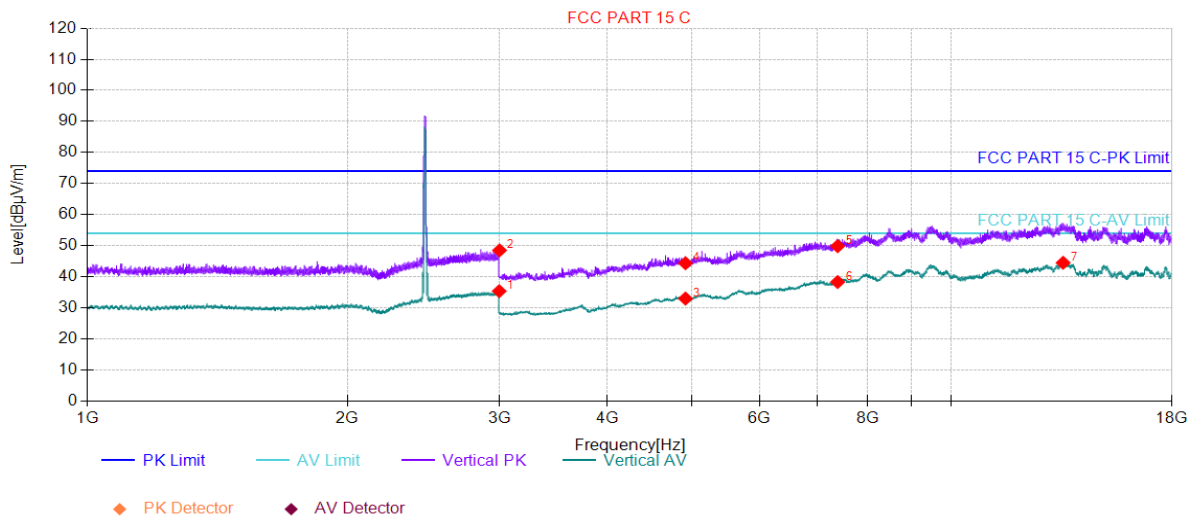
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**4.9.2.12 802.11B\_Channel 11 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2997.399	35.35	7.40	54.00	18.65	300	Vertical
2	2999.600	48.47	7.41	74.00	25.53	200	Vertical
3	4924.000	32.95	-10.22	54.00	21.05	300	Vertical
4	4924.000	44.34	-10.22	74.00	29.66	200	Vertical
5	7386.000	49.83	-2.06	74.00	24.17	200	Vertical
6	7386.000	38.28	-2.06	54.00	15.72	200	Vertical
7	13469.54	44.48	3.64	54.00	9.52	100	Vertical

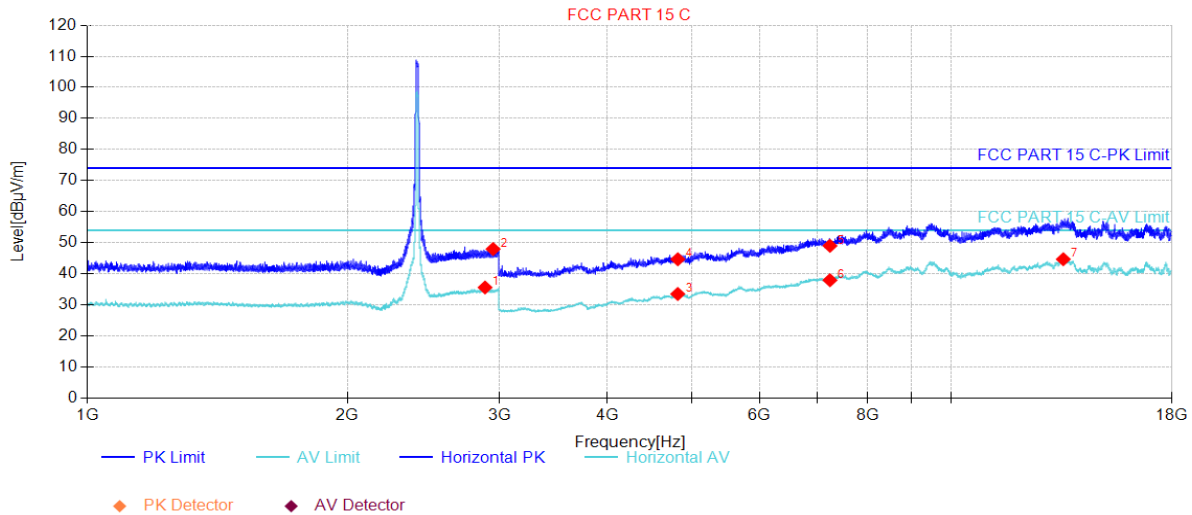
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**4.9.2.13 802.11G\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2886.188	35.55	6.92	54.00	18.45	200	Horizontal
2	2948.394	47.93	7.17	74.00	26.07	100	Horizontal
3	4824.000	33.46	-10.56	54.00	20.54	100	Horizontal
4	4824.000	44.65	-10.56	74.00	29.35	200	Horizontal
5	7236.000	48.97	-2.59	74.00	25.03	300	Horizontal
6	7236.000	37.90	-2.59	54.00	16.10	200	Horizontal
7	13477.04	44.65	3.71	54.00	9.35	200	Horizontal

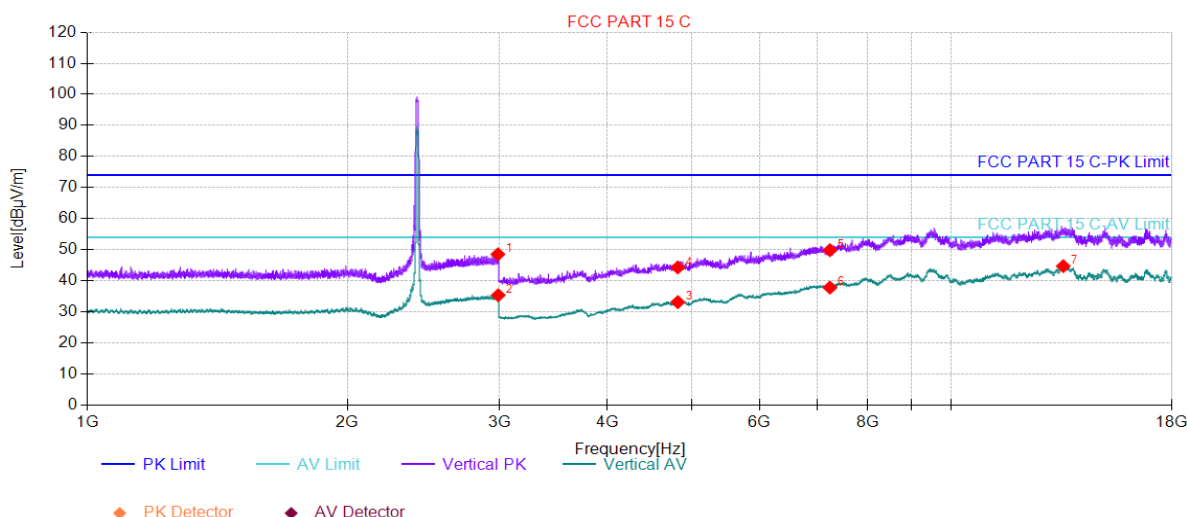
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**4.9.2.14 802.11G\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2986.998	48.50	7.35	74.00	25.50	200	Vertical
2	2989.198	35.31	7.36	54.00	18.69	300	Vertical
3	4824.000	33.08	-10.56	54.00	20.92	200	Vertical
4	4824.000	44.26	-10.56	74.00	29.74	200	Vertical
5	7236.000	49.82	-2.59	74.00	24.18	200	Vertical
6	7236.000	37.78	-2.59	54.00	16.22	300	Vertical
7	13475.54	44.68	3.69	54.00	9.32	200	Vertical

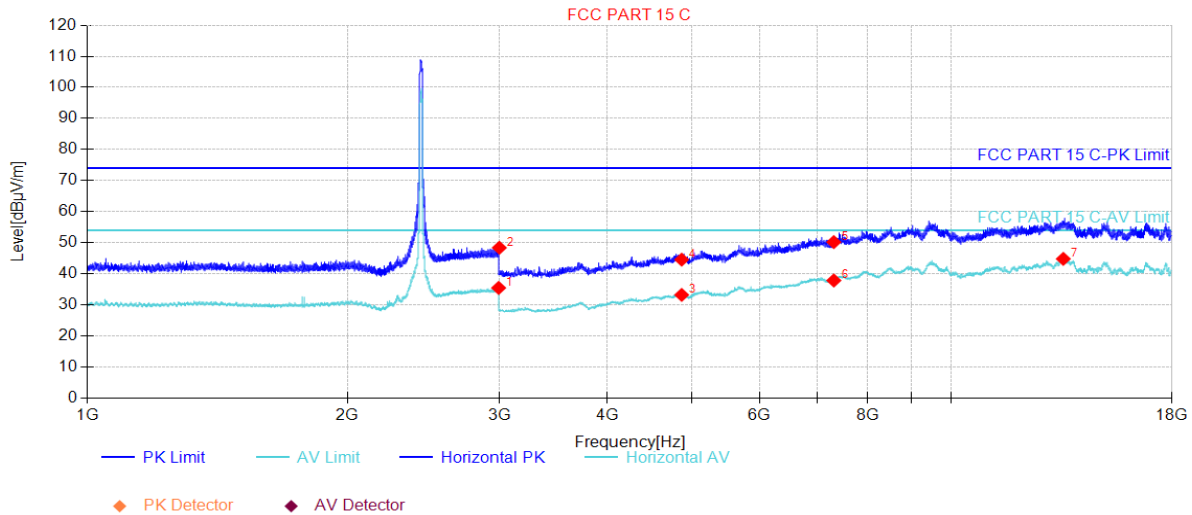
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**4.9.2.15 802.11G\_Channel 6 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	35.42	7.38	54.00	18.58	100	Horizontal
2	2998.199	48.35	7.40	74.00	25.65	100	Horizontal
3	4874.000	33.17	-10.40	54.00	20.83	200	Horizontal
4	4874.000	44.52	-10.40	74.00	29.48	200	Horizontal
5	7311.000	50.17	-2.57	74.00	23.83	200	Horizontal
6	7311.000	37.81	-2.57	54.00	16.19	200	Horizontal
7	13477.04	44.77	3.71	54.00	9.23	100	Horizontal

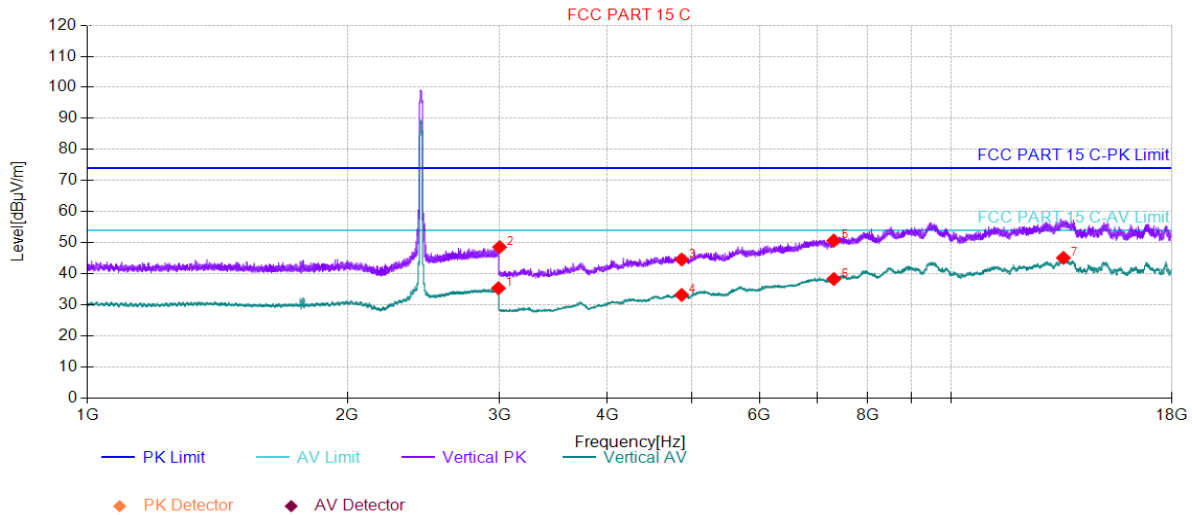
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**4.9.2.16 802.11G\_Channel 6 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.999	35.33	7.37	54.00	18.67	200	Vertical
2	3000.000	48.56	7.41	74.00	25.44	300	Vertical
3	4874.000	44.57	-10.40	74.00	29.43	200	Vertical
4	4874.000	33.15	-10.40	54.00	20.85	100	Vertical
5	7311.000	50.64	-2.57	74.00	23.36	200	Vertical
6	7311.000	38.27	-2.57	54.00	15.73	100	Vertical
7	13480.04	45.09	3.73	54.00	8.91	200	Vertical

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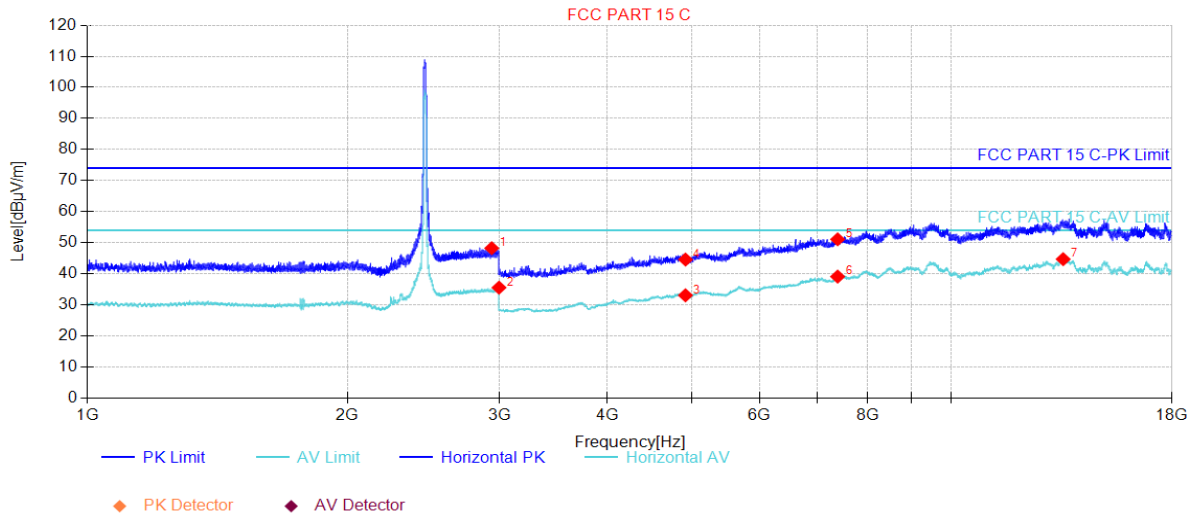


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**4.9.2.17 802.11G\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2937.993	48.21	7.12	74.00	25.79	200	Horizontal
2	2995.399	35.51	7.39	54.00	18.49	100	Horizontal
3	4924.000	33.03	-10.22	54.00	20.97	100	Horizontal
4	4924.000	44.55	-10.22	74.00	29.45	100	Horizontal
5	7386.000	51.07	-2.06	74.00	22.93	200	Horizontal
6	7386.000	39.06	-2.06	54.00	14.94	100	Horizontal
7	13472.54	44.67	3.67	54.00	9.33	100	Horizontal

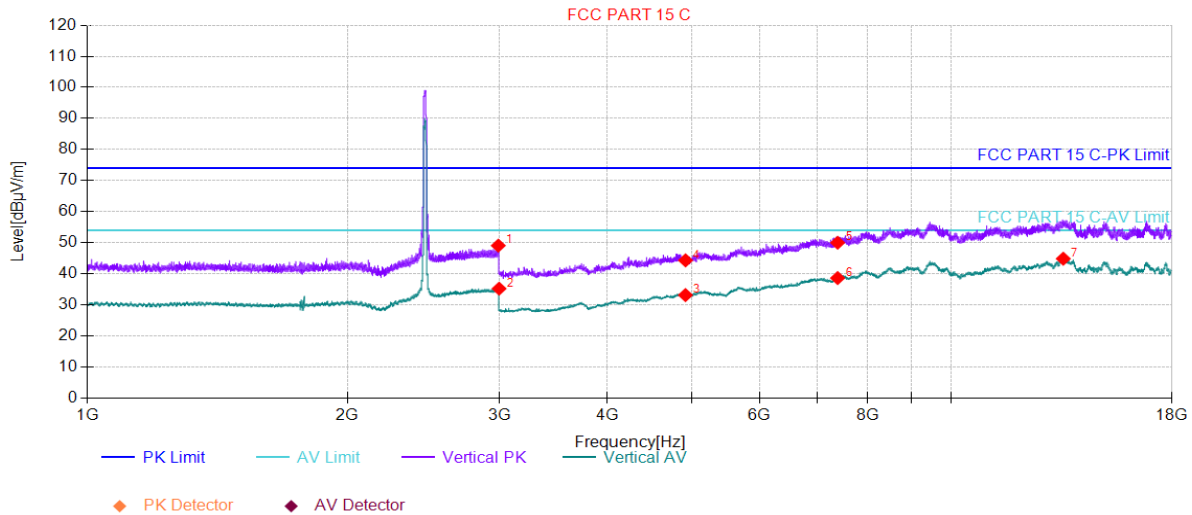
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**4.9.2.18 802.11G\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2989.799	49.04	7.36	74.00	24.96	300	Vertical
2	2996.399	35.19	7.39	54.00	18.81	200	Vertical
3	4924.000	33.11	-10.22	54.00	20.89	200	Vertical
4	4924.000	44.28	-10.22	74.00	29.72	300	Vertical
5	7386.000	49.96	-2.06	74.00	24.04	200	Vertical
6	7386.000	38.59	-2.06	54.00	15.41	100	Vertical
7	13475.54	44.81	3.69	54.00	9.19	100	Vertical

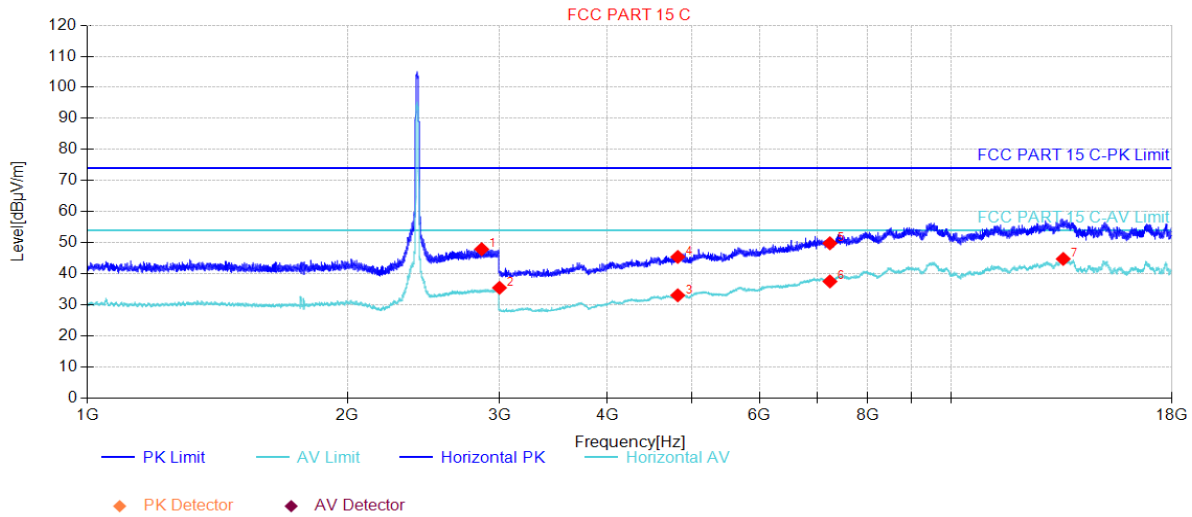
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**4.9.2.19 802.11N20\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2860.386	47.88	6.86	74.00	26.12	100	Horizontal
2	2999.399	35.46	7.41	54.00	18.54	200	Horizontal
3	4824.000	33.03	-10.56	54.00	20.97	100	Horizontal
4	4824.000	45.40	-10.56	74.00	28.60	100	Horizontal
5	7236.000	49.79	-2.59	74.00	24.21	200	Horizontal
6	7236.000	37.50	-2.59	54.00	16.50	200	Horizontal
7	13474.04	44.75	3.68	54.00	9.25	100	Horizontal

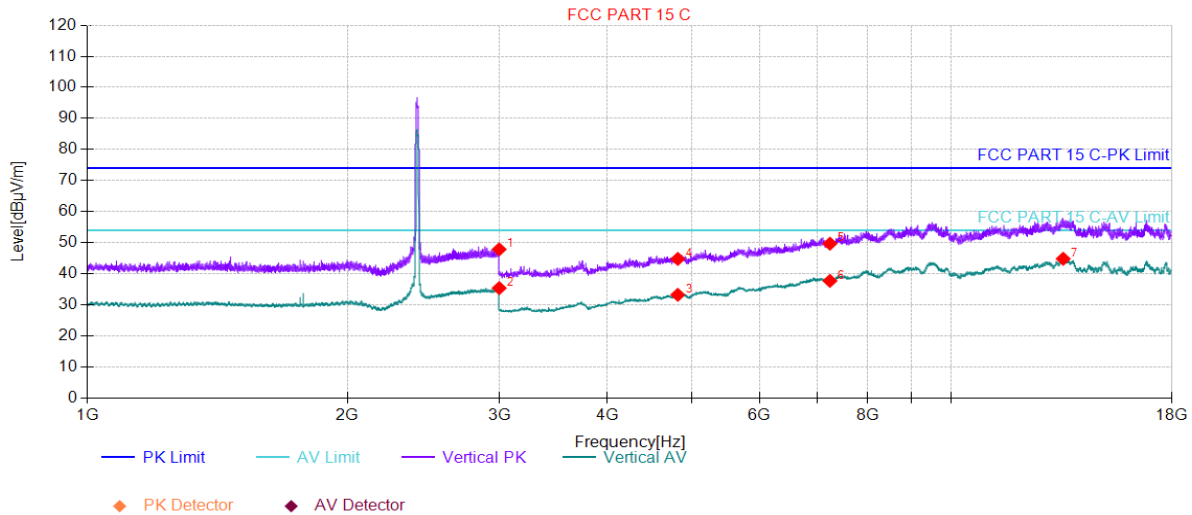
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**4.9.2.20 802.11N20\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2996.999	47.84	7.40	74.00	26.16	200	Vertical
2	2996.999	35.36	7.40	54.00	18.64	300	Vertical
3	4824.000	33.19	-10.56	54.00	20.81	200	Vertical
4	4824.000	44.75	-10.56	74.00	29.25	300	Vertical
5	7236.000	49.66	-2.59	74.00	24.34	100	Vertical
6	7236.000	37.68	-2.59	54.00	16.32	100	Vertical
7	13472.54	44.79	3.67	54.00	9.21	200	Vertical

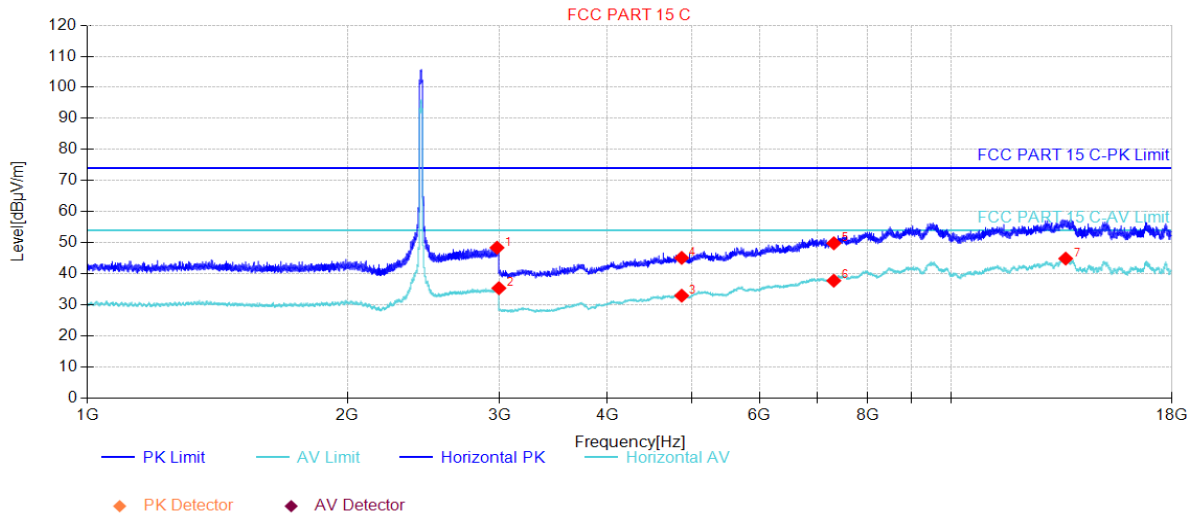
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**4.9.2.21 802.11N20\_Channel 6 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2979.798	48.36	7.32	74.00	25.64	100	Horizontal
2	2994.799	35.34	7.39	54.00	18.66	100	Horizontal
3	4874.000	32.92	-10.40	54.00	21.08	200	Horizontal
4	4874.000	45.09	-10.40	74.00	28.91	200	Horizontal
5	7311.000	49.79	-2.57	74.00	24.21	100	Horizontal
6	7311.000	37.74	-2.57	54.00	16.26	200	Horizontal
7	13562.55	44.86	4.02	54.00	9.14	100	Horizontal

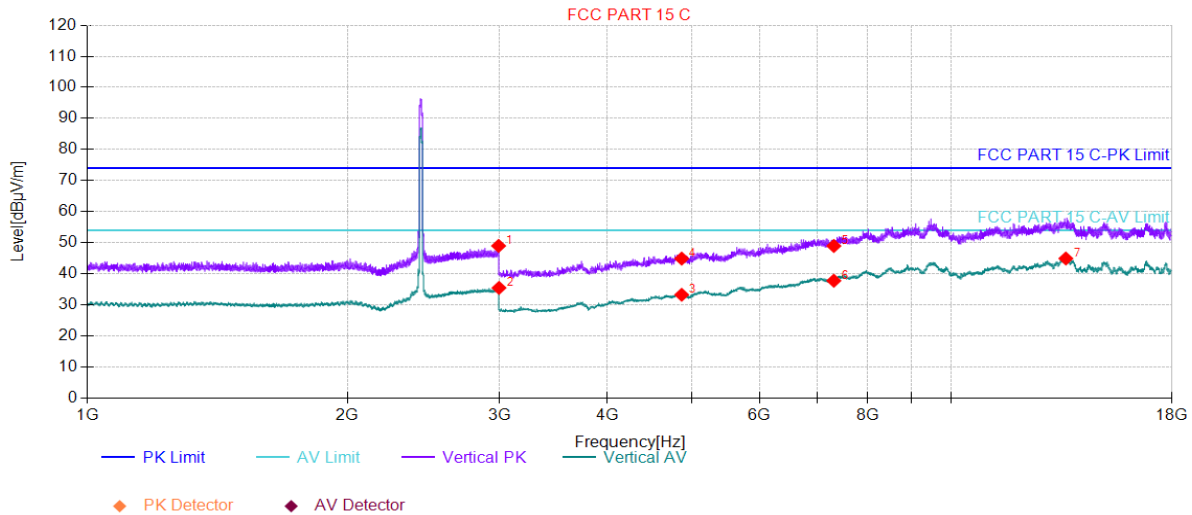
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**4.9.2.22 802.11N20\_Channel 6 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.999	48.95	7.37	74.00	25.05	200	Vertical
2	2995.599	35.43	7.39	54.00	18.57	300	Vertical
3	4874.000	33.21	-10.40	54.00	20.79	200	Vertical
4	4874.000	44.86	-10.40	74.00	29.14	300	Vertical
5	7311.000	48.93	-2.57	74.00	25.07	200	Vertical
6	7311.000	37.72	-2.57	54.00	16.28	100	Vertical
7	13568.55	44.89	4.03	54.00	9.11	100	Vertical

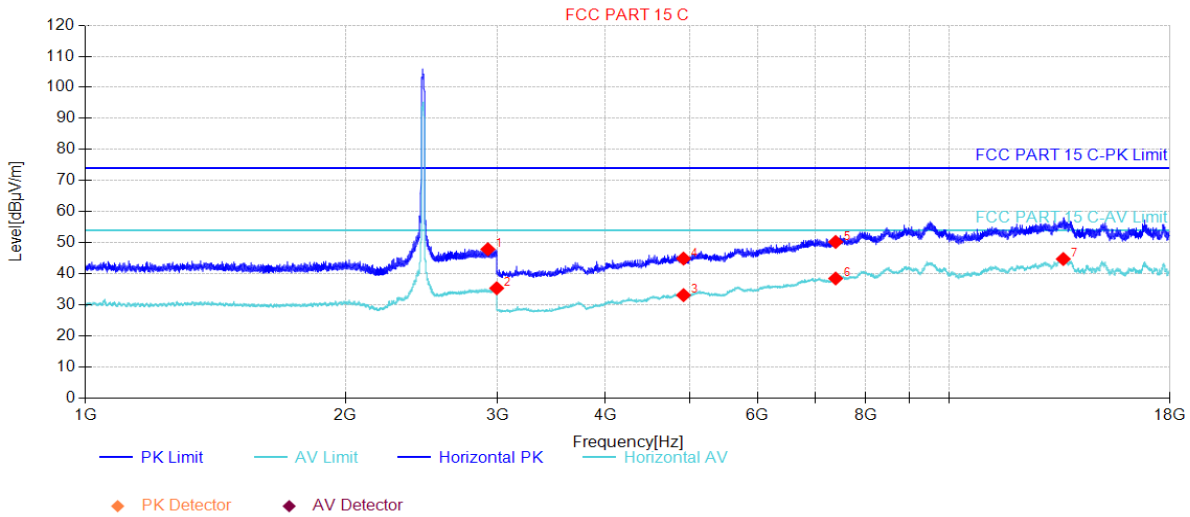
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**4.9.2.23 802.11N20\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2923.992	47.87	7.06	74.00	26.13	100	Horizontal
2	2992.999	35.33	7.38	54.00	18.67	200	Horizontal
3	4924.000	33.08	-10.22	54.00	20.92	200	Horizontal
4	4924.000	44.86	-10.22	74.00	29.14	100	Horizontal
5	7386.000	50.23	-2.06	74.00	23.77	100	Horizontal
6	7386.000	38.46	-2.06	54.00	15.54	200	Horizontal
7	13547.55	44.72	3.99	54.00	9.28	100	Horizontal

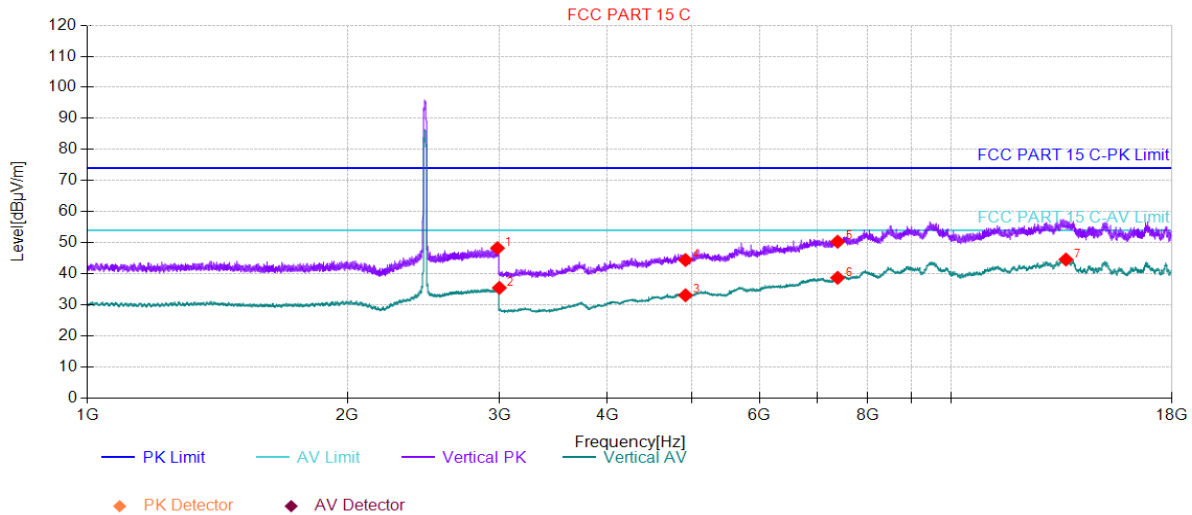
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**4.9.2.24 802.11N20\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2983.398	48.23	7.33	74.00	25.77	200	Vertical
2	2998.599	35.44	7.40	54.00	18.56	300	Vertical
3	4924.000	33.06	-10.22	54.00	20.94	200	Vertical
4	4924.000	44.41	-10.22	74.00	29.59	300	Vertical
5	7386.000	50.30	-2.06	74.00	23.70	200	Vertical
6	7386.000	38.66	-2.06	54.00	15.34	100	Vertical
7	13571.55	44.56	4.04	54.00	9.44	200	Vertical

**Final Data List**

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier 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.



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### 4.10 Restricted bands around fundamental frequency

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

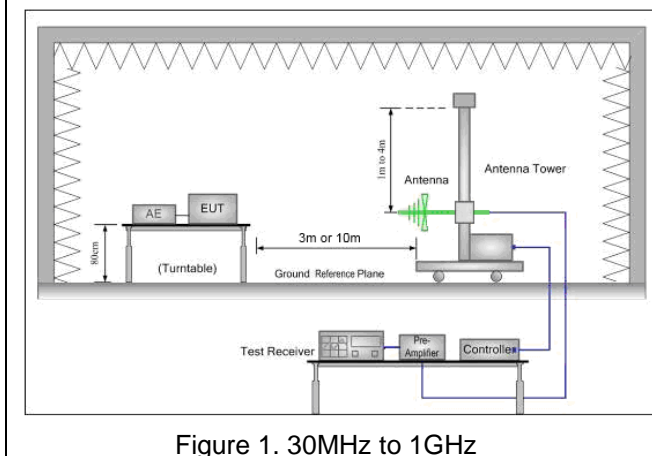


Figure 1. 30MHz to 1GHz

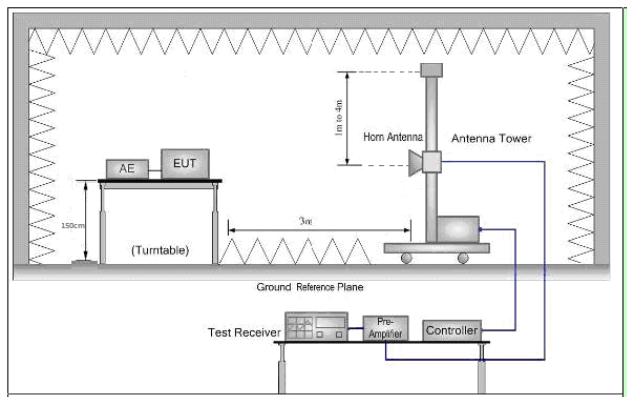


Figure 2. Above 1 GHz



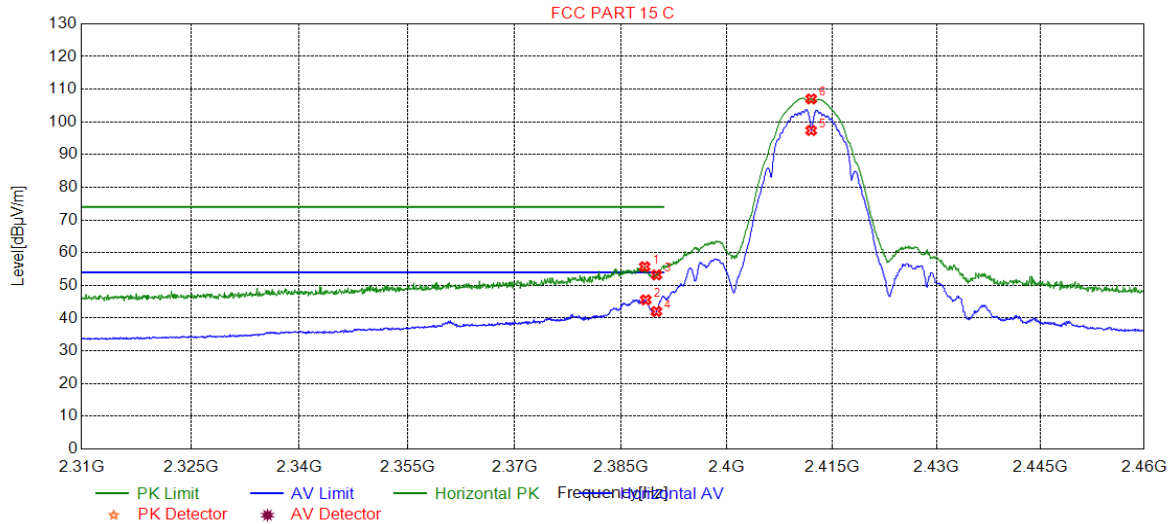
<p>Test Procedure:</p>	<ul style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For 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> </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 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); 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>
<p>Remark:</p>	<p>The Emission Test data were reused from the report no:XZR/2020/B001601</p>



Test plot as follows:

**4.10.1 Test plots**

**4.10.1.1 802.11B\_Channel 1 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.339	55.75	74.00	18.25	100	272	Horizontal
2	2388.489	45.61	54.00	8.39	100	272	Horizontal
3	2390.000	53.24	74.00	20.76	200	110	Horizontal
4	2390.000	42.06	54.00	11.94	100	272	Horizontal
5	2412.000	97.39	0.00	-97.39	200	276	Horizontal
6	2412.000	107.04	0.00	-107.04	100	272	Horizontal

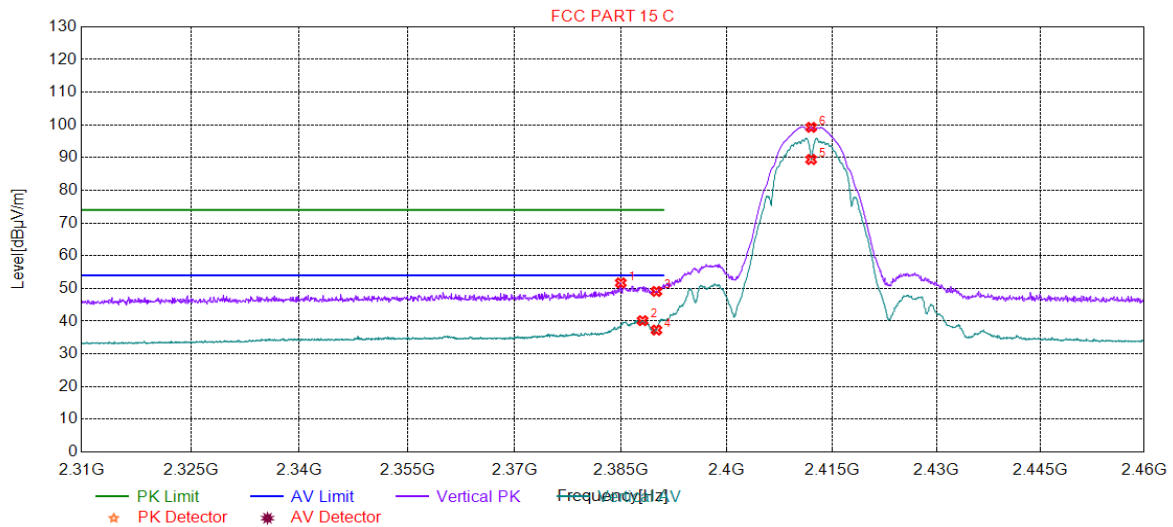
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**4.10.1.2 802.11B\_Channel 1 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.962	51.71	74.00	22.29	100	159	Vertical
2	2388.039	40.16	54.00	13.84	200	159	Vertical
3	2390.000	49.11	74.00	24.89	100	163	Vertical
4	2390.000	37.28	54.00	16.72	200	159	Vertical
5	2412.000	89.44	0.00	-89.44	100	159	Vertical
6	2412.000	99.26	0.00	-99.26	100	163	Vertical

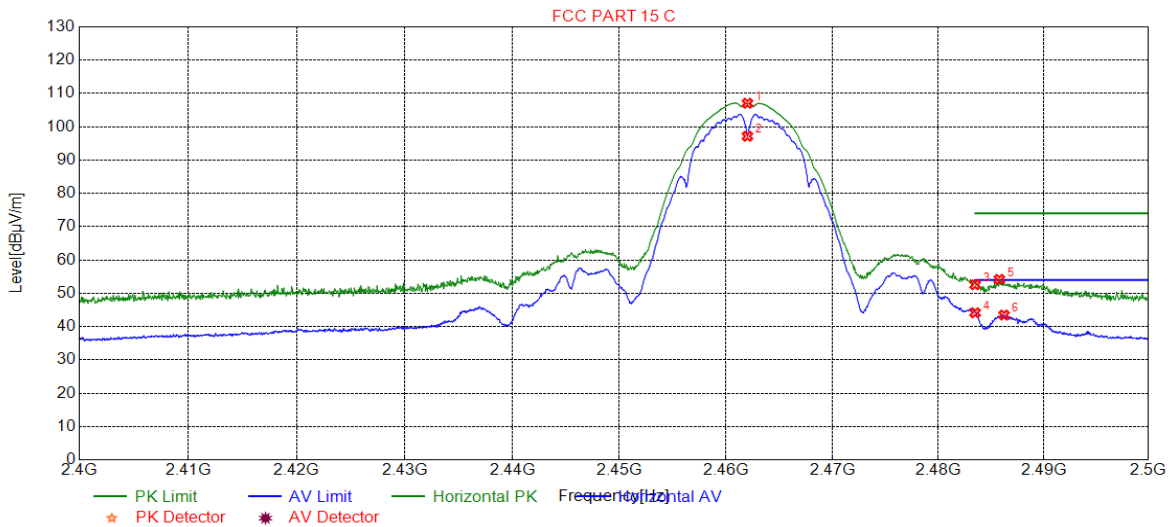
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**4.10.1.3 802.11B\_Channel 11 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	107.07	0.00	-107.07	100	270	Horizontal
2	2462.000	97.16	0.00	-97.16	100	274	Horizontal
3	2483.500	52.59	74.00	21.41	200	270	Horizontal
4	2483.500	44.18	54.00	9.82	200	270	Horizontal
5	2485.792	54.22	74.00	19.78	100	270	Horizontal
6	2486.243	43.49	54.00	10.51	100	270	Horizontal

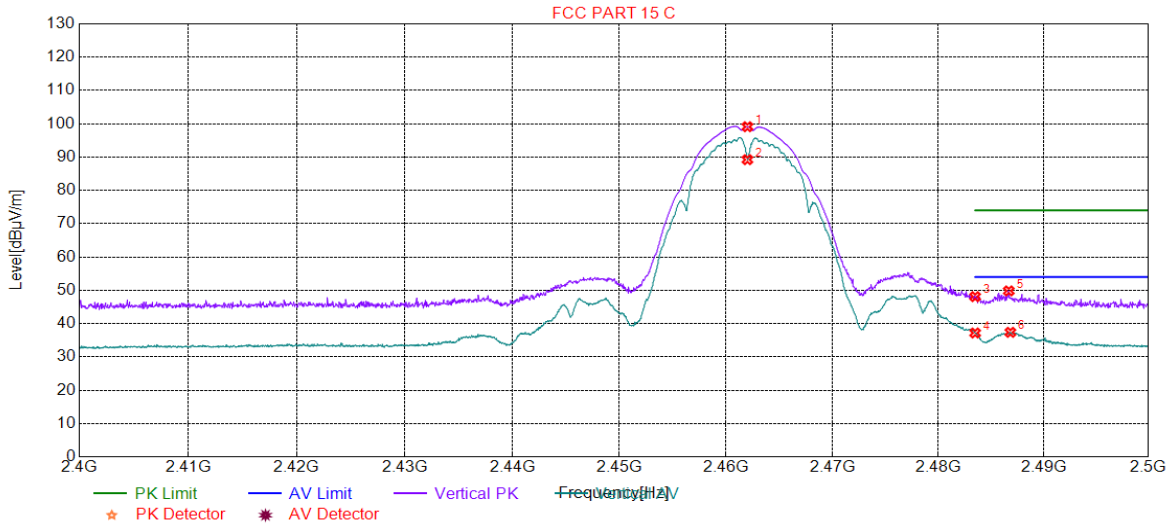
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**4.10.1.4 802.11B\_Channel 11 ANT 1**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	99.12	0.00	-99.12	200	360	Vertical
2	2462.000	89.23	0.00	-89.23	100	359	Vertical
3	2483.500	48.11	74.00	25.89	100	359	Vertical
4	2483.500	37.21	54.00	16.79	100	359	Vertical
5	2486.693	49.84	74.00	24.16	200	354	Vertical
6	2486.843	37.41	54.00	16.59	100	359	Vertical

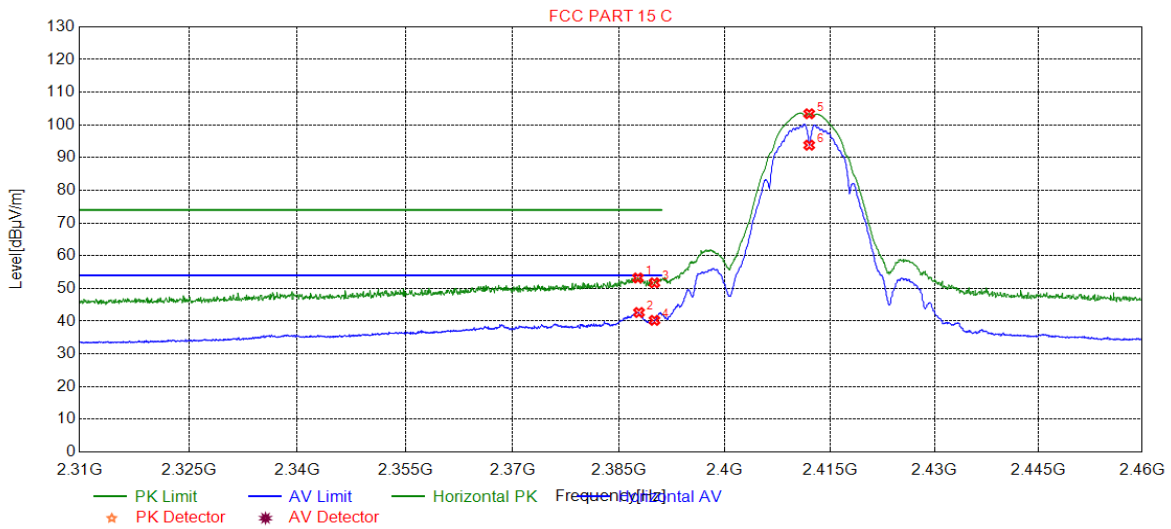
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**4.10.1.5 802.11B\_Channel 1 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.663	53.22	74.00	20.78	100	138	Horizontal
2	2387.813	42.66	54.00	11.34	100	54	Horizontal
3	2390.000	51.73	74.00	22.27	200	58	Horizontal
4	2390.000	40.26	54.00	13.74	100	123	Horizontal
5	2412.000	103.42	0.00	-103.42	200	123	Horizontal
6	2412.000	93.81	0.00	-93.81	100	111	Horizontal

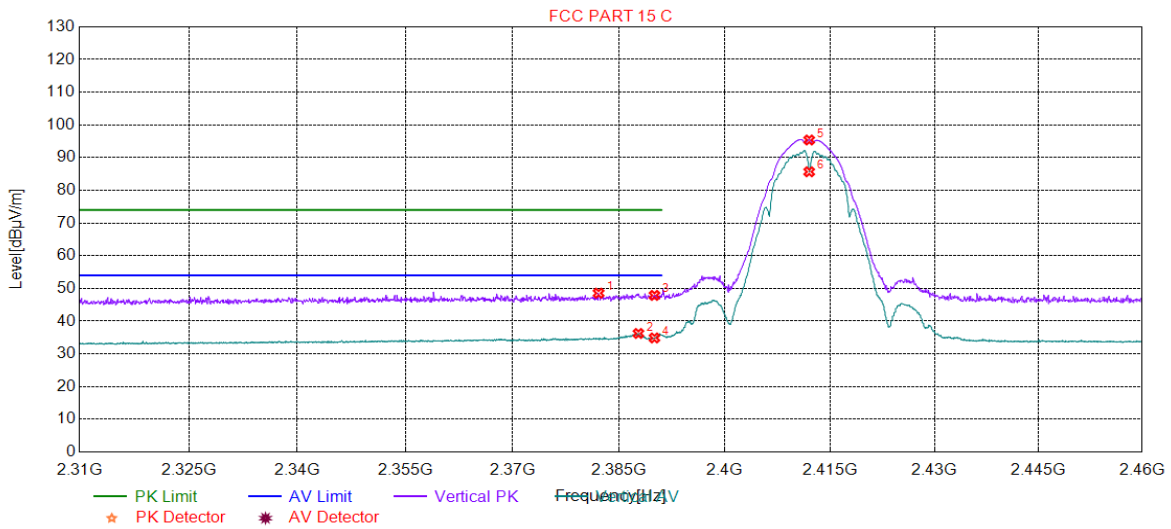
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**4.10.1.6 802.11B\_Channel 1 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.111	48.57	74.00	25.43	300	320	Vertical
2	2387.738	36.25	54.00	17.75	200	14	Vertical
3	2390.000	47.89	74.00	26.11	200	243	Vertical
4	2390.000	34.88	54.00	19.12	300	354	Vertical
5	2412.000	95.39	0.00	-95.39	200	75	Vertical
6	2412.000	85.68	0.00	-85.68	200	75	Vertical

**Final Data List**

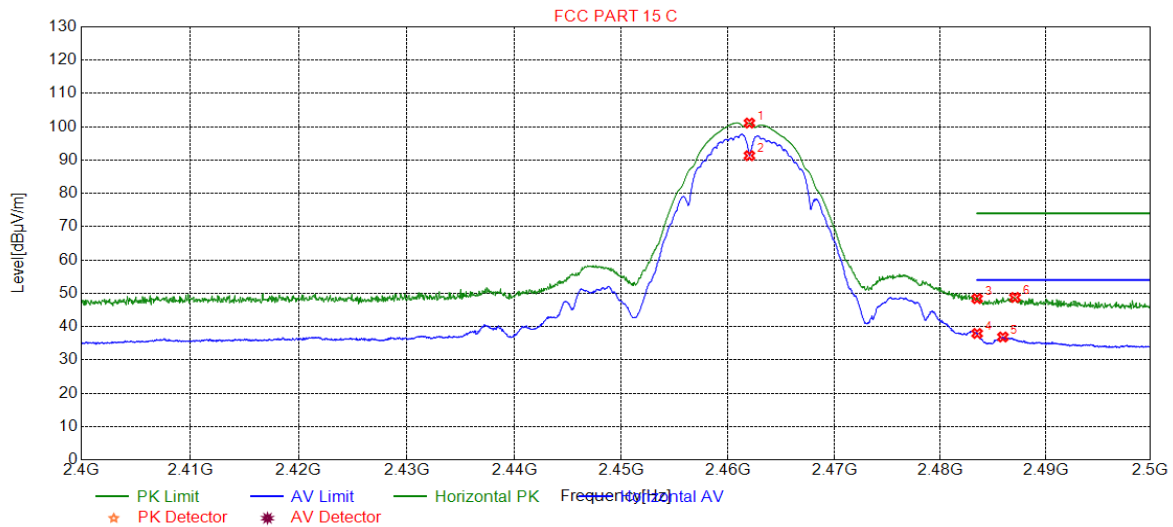


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**4.10.1.7 802.11B\_Channel 11 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	101.12	0.00	-101.12	100	113	Horizontal
2	2462.000	91.32	0.00	-91.32	200	117	Horizontal
3	2483.500	48.42	74.00	25.58	200	143	Horizontal
4	2483.500	37.97	54.00	16.03	100	113	Horizontal
5	2485.943	36.91	54.00	17.09	200	113	Horizontal
6	2487.093	48.77	74.00	25.23	100	140	Horizontal

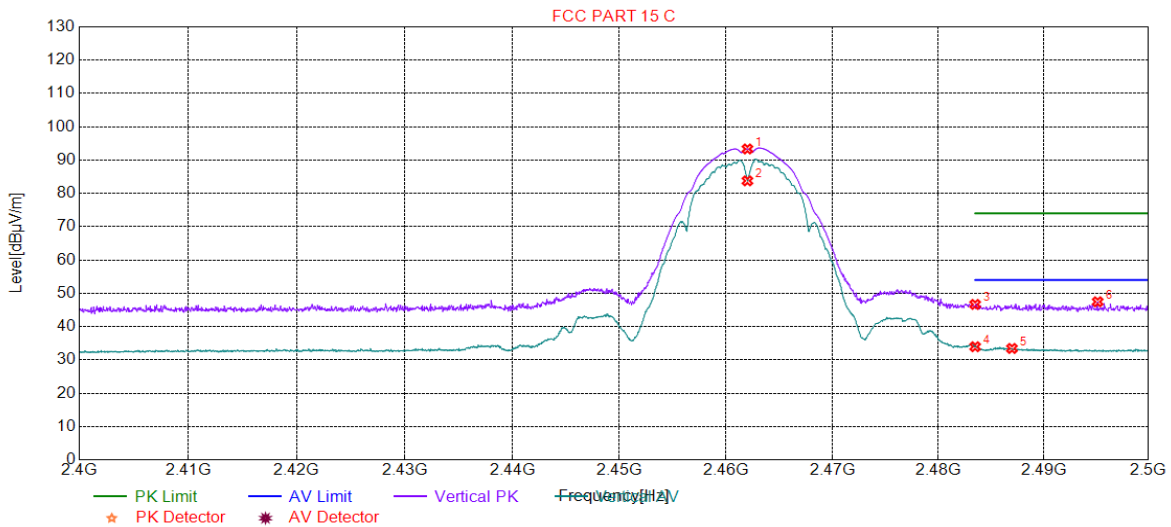
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**4.10.1.8 802.11B\_Channel 11 ANT 2**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	93.35	0.00	-93.35	300	75	Vertical
2	2462.000	83.77	0.00	-83.77	200	75	Vertical
3	2483.500	46.68	74.00	27.32	200	286	Vertical
4	2483.500	33.99	54.00	20.01	100	79	Vertical
5	2486.993	33.47	54.00	20.53	200	71	Vertical
6	2495.147	47.48	74.00	26.52	200	301	Vertical

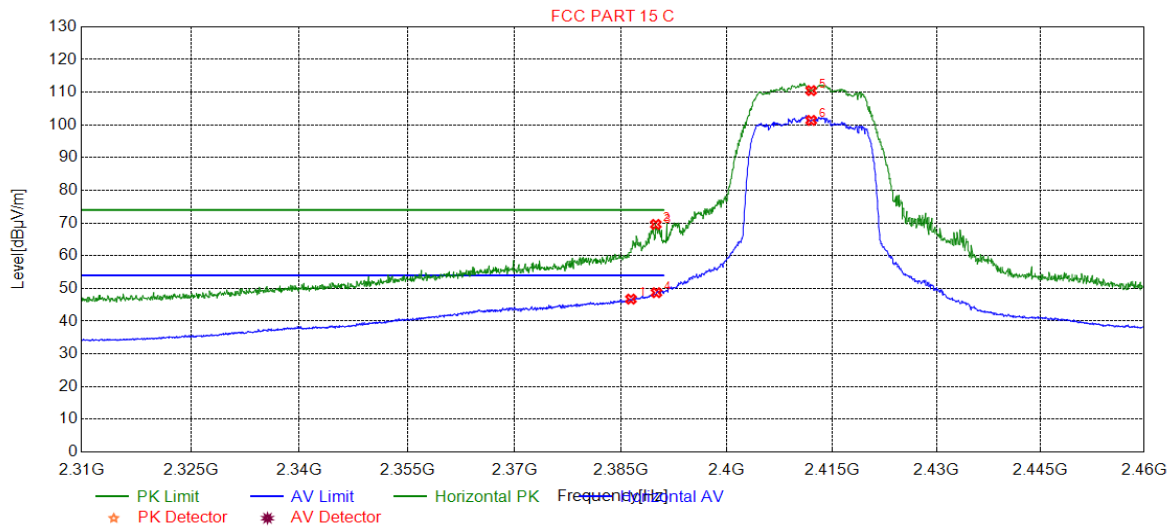
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**4.10.1.9 802.11G\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.388	46.75	54.00	7.25	100	50	Horizontal
2	2389.915	69.60	74.00	4.40	200	50	Horizontal
3	2390.000	69.08	74.00	4.92	200	111	Horizontal
4	2390.000	48.72	54.00	5.28	100	111	Horizontal
5	2412.000	110.51	0.00	-110.51	100	45	Horizontal
6	2412.000	101.39	0.00	-101.39	200	54	Horizontal

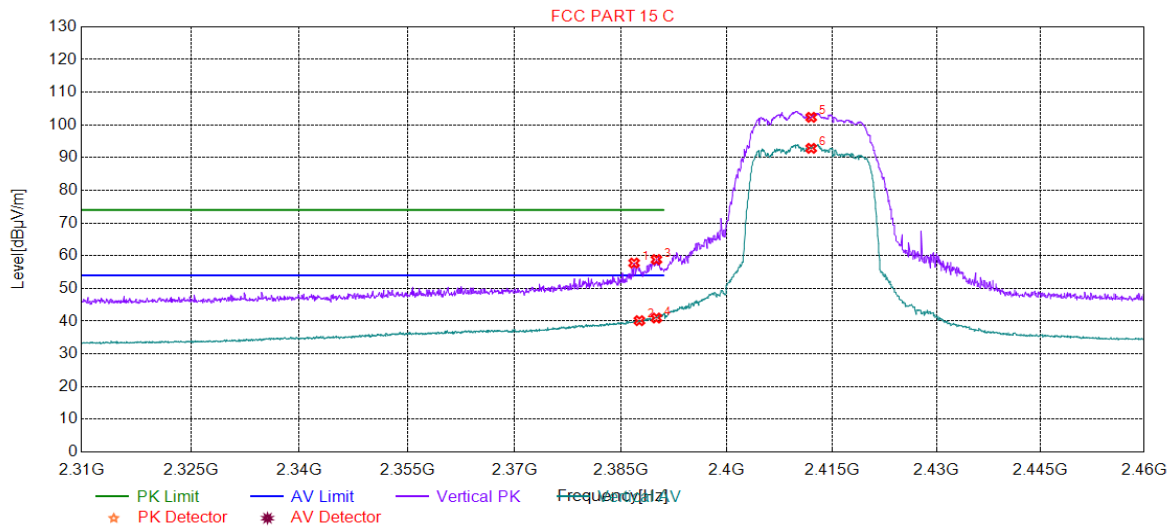
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**4.10.1.10 802.11G\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.838	57.78	74.00	16.22	200	165	Vertical
2	2387.588	40.16	54.00	13.84	200	158	Vertical
3	2390.000	58.85	74.00	15.15	300	14	Vertical
4	2390.000	40.97	54.00	13.03	200	158	Vertical
5	2412.000	102.33	0.00	-102.33	300	161	Vertical
6	2412.000	92.85	0.00	-92.85	200	161	Vertical

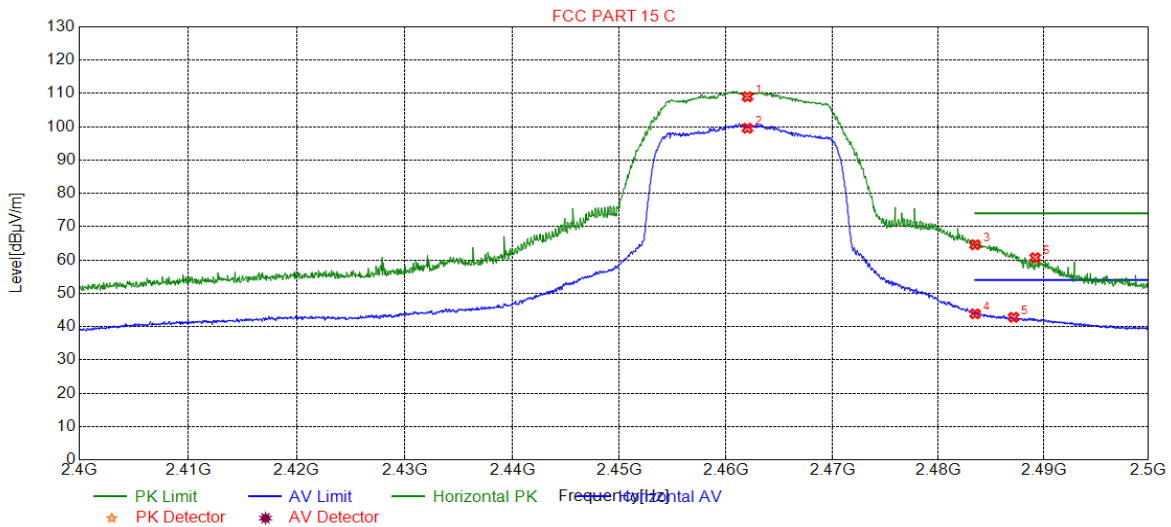
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**4.10.1.11 802.11G\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.01	0.00	-109.01	100	114	Horizontal
2	2462.000	99.56	0.00	-99.56	200	53	Horizontal
3	2483.500	64.59	74.00	9.41	100	87	Horizontal
4	2483.500	43.86	54.00	10.14	200	60	Horizontal
5	2487.143	42.82	54.00	11.18	100	56	Horizontal
6	2489.194	60.71	74.00	13.29	200	56	Horizontal

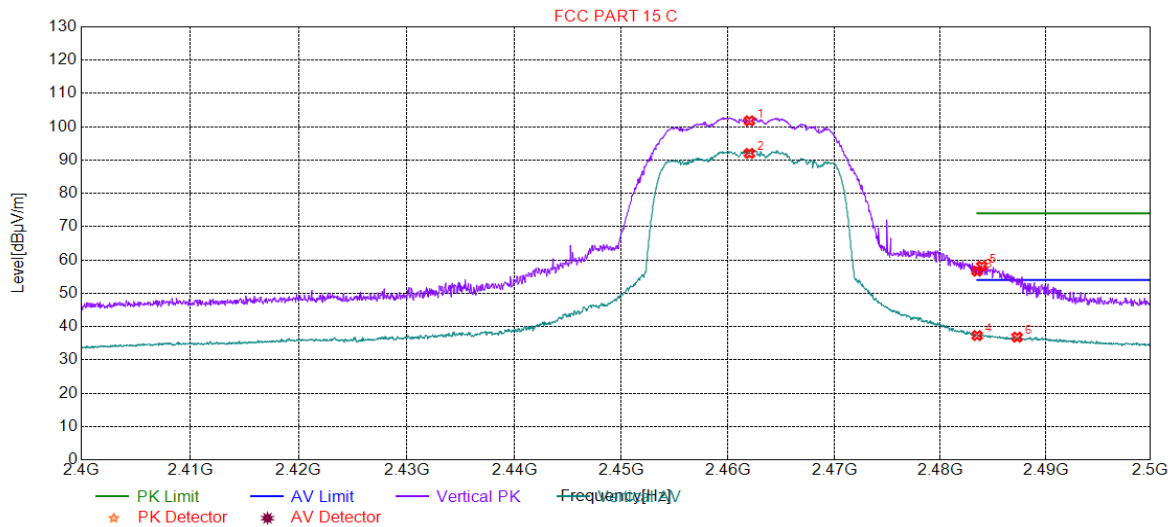
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**4.10.1.12 802.11G\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	101.79	0.00	-101.79	200	360	Vertical
2	2462.000	92.01	0.00	-92.01	300	14	Vertical
3	2483.500	56.67	74.00	17.33	200	14	Vertical
4	2483.500	37.33	54.00	16.67	200	14	Vertical
5	2483.942	58.17	74.00	15.83	100	14	Vertical
6	2487.293	36.86	54.00	17.14	200	352	Vertical

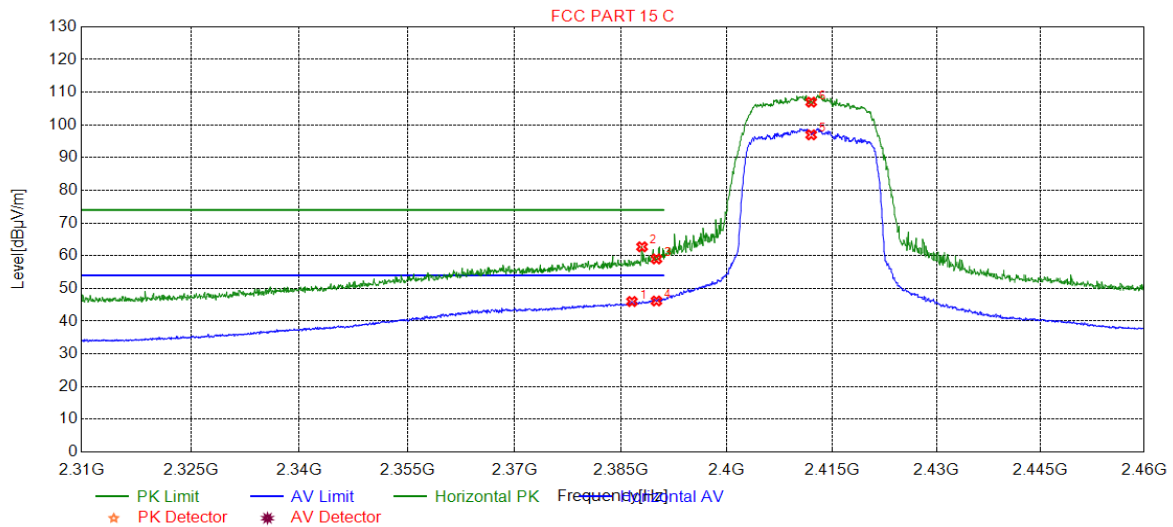
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**4.10.1.13 802.11N20\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.538	46.02	54.00	7.98	100	53	Horizontal
2	2387.964	62.74	74.00	11.26	200	72	Horizontal
3	2390.000	59.04	74.00	14.96	100	114	Horizontal
4	2390.000	46.19	54.00	7.81	200	110	Horizontal
5	2412.000	96.97	0.00	-96.97	100	46	Horizontal
6	2412.000	106.97	0.00	-106.97	200	114	Horizontal

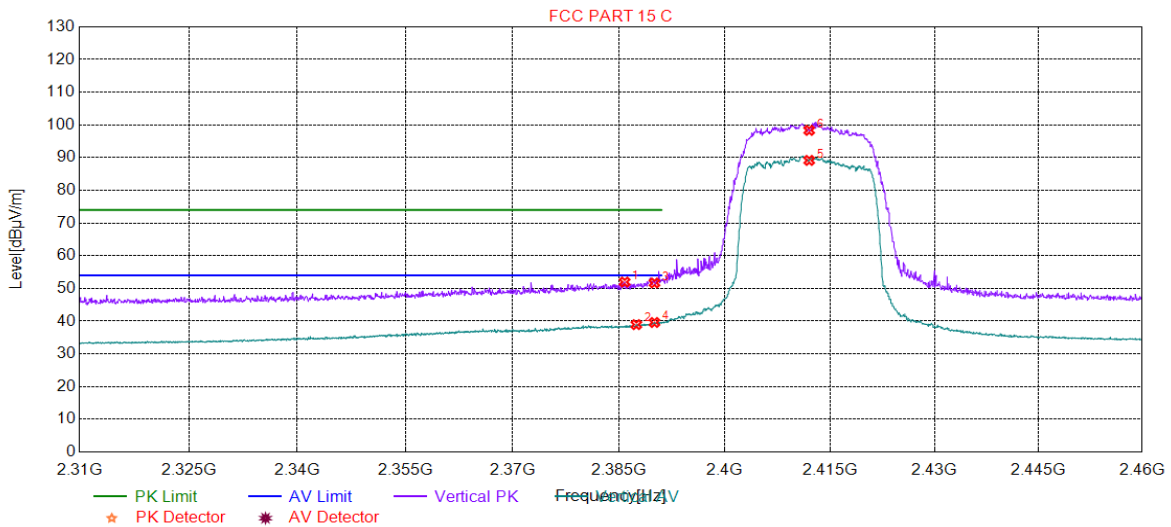
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**4.10.1.14 802.11N20\_Channel 1 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.787	51.98	74.00	22.02	200	171	Vertical
2	2387.438	38.96	54.00	15.04	300	175	Vertical
3	2390.000	51.70	74.00	22.30	200	167	Vertical
4	2390.000	39.61	54.00	14.39	200	175	Vertical
5	2412.000	89.16	0.00	-89.16	300	159	Vertical
6	2412.000	98.34	0.00	-98.34	200	156	Vertical

**Final Data List**

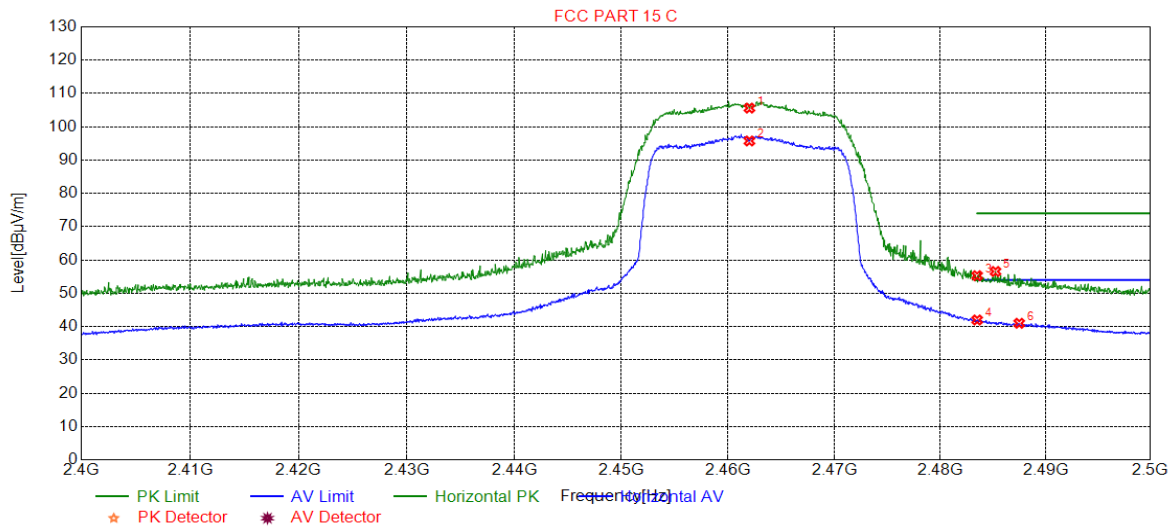


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**4.10.1.15 802.11N20\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	105.61	0.00	-105.61	100	270	Horizontal
2	2462.000	95.74	0.00	-95.74	200	82	Horizontal
3	2483.500	55.31	74.00	18.69	200	289	Horizontal
4	2483.500	42.01	54.00	11.99	300	270	Horizontal
5	2485.242	56.57	74.00	17.43	200	266	Horizontal
6	2487.493	41.02	54.00	12.98	200	270	Horizontal

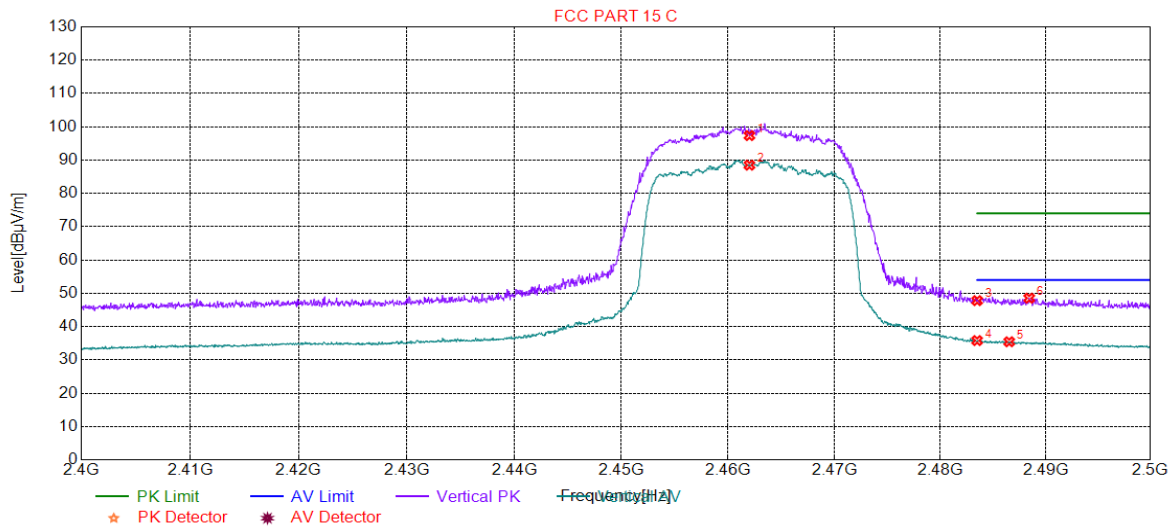
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**4.10.1.16 802.11N20\_Channel 11 MIMO**



Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	97.36	0.00	-97.36	200	360	Vertical
2	2462.000	88.48	0.00	-88.48	300	14	Vertical
3	2483.500	47.82	74.00	26.18	200	113	Vertical
4	2483.500	35.83	54.00	18.17	200	360	Vertical
5	2486.543	35.48	54.00	18.52	300	360	Vertical
6	2488.444	48.56	74.00	25.44	100	14	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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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)

Lab A:

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	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test	±4.8dB (30MHz-1GHz)
		±5.2dB (1GHz-6GHz)
		±5.5dB (6GHz-18GHz)
		±5.02dB (18GHz-40GHz)
2	Conduct emission test	±3.4 dB (9KHz- 30MHz)



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## 6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal. Due date
				(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	2021/1/3	2022/1/2
				2020/1/4	2021/1/3
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-CP AR	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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RSE&RE&CE Test System					
Equipment	Manufacturer	Model No.	Cal Date	Cal Due Date	Inventory No.
Semi-Anechoic Chamber	Brilliant-emc	966	NCR	NCR	XAW03-35-01
MXA signal analyzer	Keysight	N9020A	2020-04-02	2021-04-02	XAW01-06-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	2020-04-02	2021-04-02	XAW01-03-02
Test receiver	ROHDE&SCHWARZ	ESR	2020-09-11	2021-09-10	XAW01-08-01
Receiving antenna	Rosenberger	VULB 9163	2019-10-13	2021-10-12	XAW01-09-01
Receiving antenna	Rosenberger	BBHA 9120D	2019-10-13	2021-10-12	XAW01-09-02
Receiving antenna	Rosenberger	BBHA 9170	2019-10-13	2021-10-12	XAW01-09-03
Directional antenna rack controller	Max-Full	MF-7802BS	NCR	NCR	XAW03-03-01
High-speed antenna rack controller	Max-Full	MF-7802	NCR	NCR	XAW03-04-01
Filter bank	Tonscend	JS0806-F	NCR	NCR	XAW03-05-01
Filter bank	Tonscend	JS0806s	NCR	NCR	XAW03-05-02
Amplifier	Tonscend	TAP00903040	2020-10-26	2021-10-25	XAW01-41-01
Amplifier	Tonscend	TAP01018048	2020-10-26	2021-10-25	XAW01-41-02
Amplifier	Tonscend	TAP18040048	2020-10-26	2021-10-25	XAW01-41-03
Amplifier	Shanghai Steed	YX28980930	2020-10-26	2021-10-25	XAW01-41-06
Artificial network	ROHDE&SCHWARZ	ENV216	2020-08-04	2021-08-03	XAW01-19-02
Temperature and humidity meter	MingGao	TH101B	2020-06-11	2021-05-11	XAW01-01-01
Measurement Software	Tonscend	TS+ RSE&RE	NCR	NCR	XAW02-05-01
Measurement Software	Tonscend	TS+ CE	NCR	NCR	XAW02-05-02

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/B0016.



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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	7.110	2408.460	2415.570	0.5	PASS
	Ant2	2412	7.110	2408.460	2415.570	0.5	PASS
	Ant1	2437	7.110	2433.460	2440.570	0.5	PASS
	Ant2	2437	7.590	2432.980	2440.570	0.5	PASS
	Ant1	2462	7.080	2458.460	2465.540	0.5	PASS
	Ant2	2462	7.140	2458.430	2465.570	0.5	PASS
11G	Ant1	2412	16.380	2403.810	2420.190	0.5	PASS
	Ant2	2412	16.380	2403.810	2420.190	0.5	PASS
	Ant1	2437	16.380	2428.810	2445.190	0.5	PASS
	Ant2	2437	16.380	2428.810	2445.190	0.5	PASS
	Ant1	2462	16.380	2453.810	2470.190	0.5	PASS
	Ant2	2462	16.380	2453.810	2470.190	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.180	2420.820	0.5	PASS
	Ant2	2412	17.640	2403.180	2420.820	0.5	PASS
	Ant1	2437	17.400	2428.180	2445.580	0.5	PASS
	Ant2	2437	17.370	2428.210	2445.580	0.5	PASS
	Ant1	2462	17.370	2453.180	2470.550	0.5	PASS
	Ant2	2462	17.370	2453.180	2470.550	0.5	PASS
11G-CDD	Ant1	2412	16.380	2403.810	2420.190	0.5	PASS
	Ant2	2412	16.380	2403.810	2420.190	0.5	PASS
	Ant1	2437	16.380	2428.810	2445.190	0.5	PASS
	Ant2	2437	16.410	2428.810	2445.220	0.5	PASS
	Ant1	2462	16.380	2453.810	2470.190	0.5	PASS
	Ant2	2462	16.410	2453.810	2470.220	0.5	PASS
11N20MIM O	Ant1	2412	17.370	2403.210	2420.580	0.5	PASS
	Ant2	2412	17.640	2403.180	2420.820	0.5	PASS
	Ant1	2437	17.610	2428.180	2445.790	0.5	PASS
	Ant2	2437	17.640	2428.180	2445.820	0.5	PASS



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	Ant1	2462	17.340	2453.210	2470.550	0.5	PASS
	Ant2	2462	17.640	2453.180	2470.820	0.5	PASS

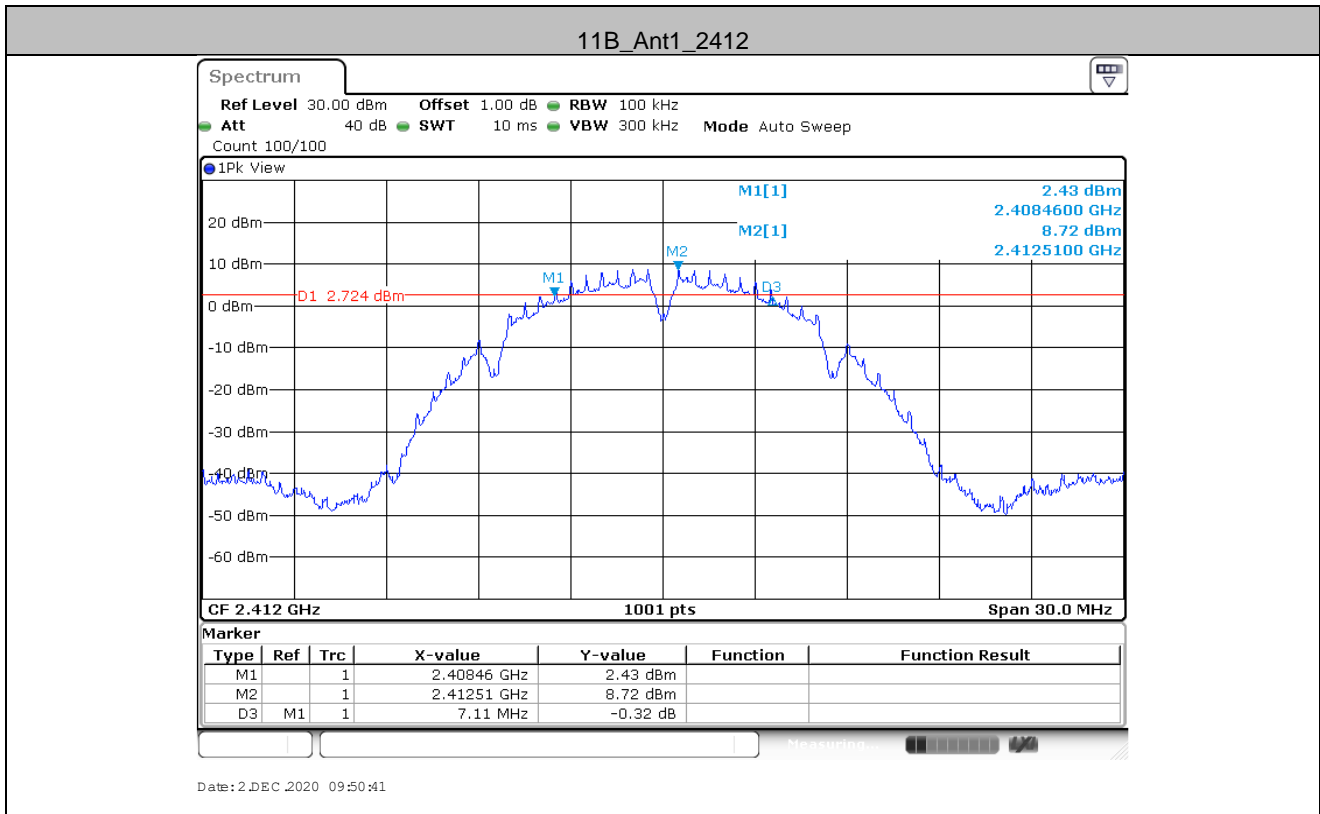


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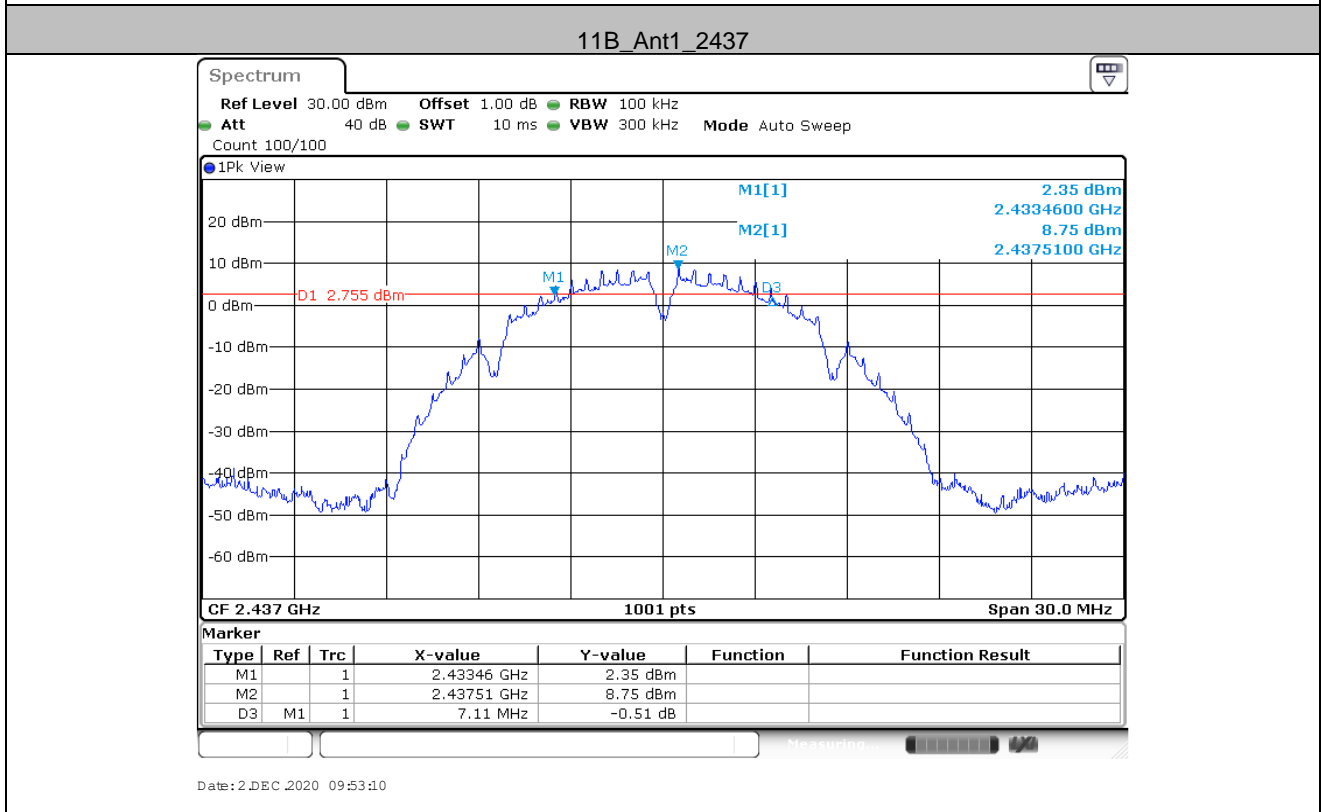
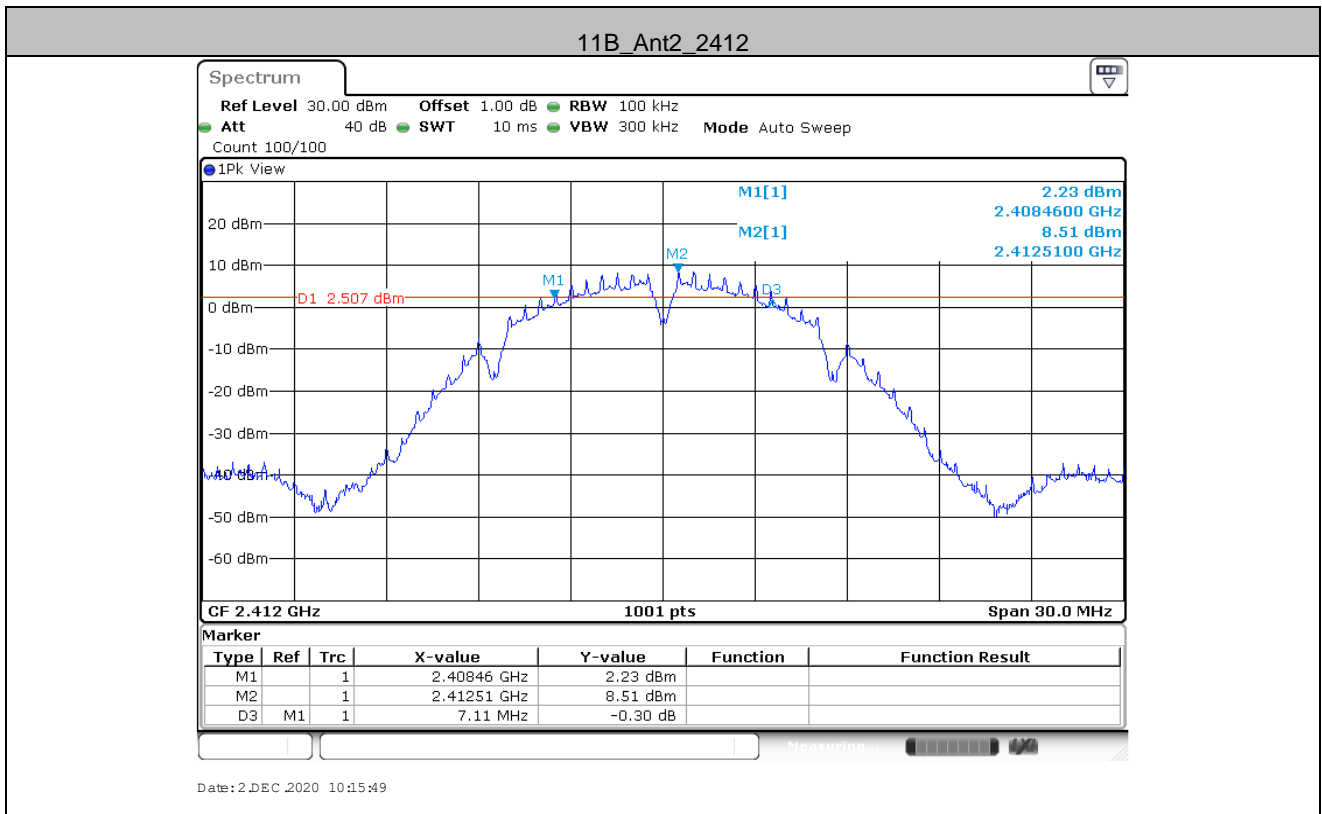
**Test Graphs**



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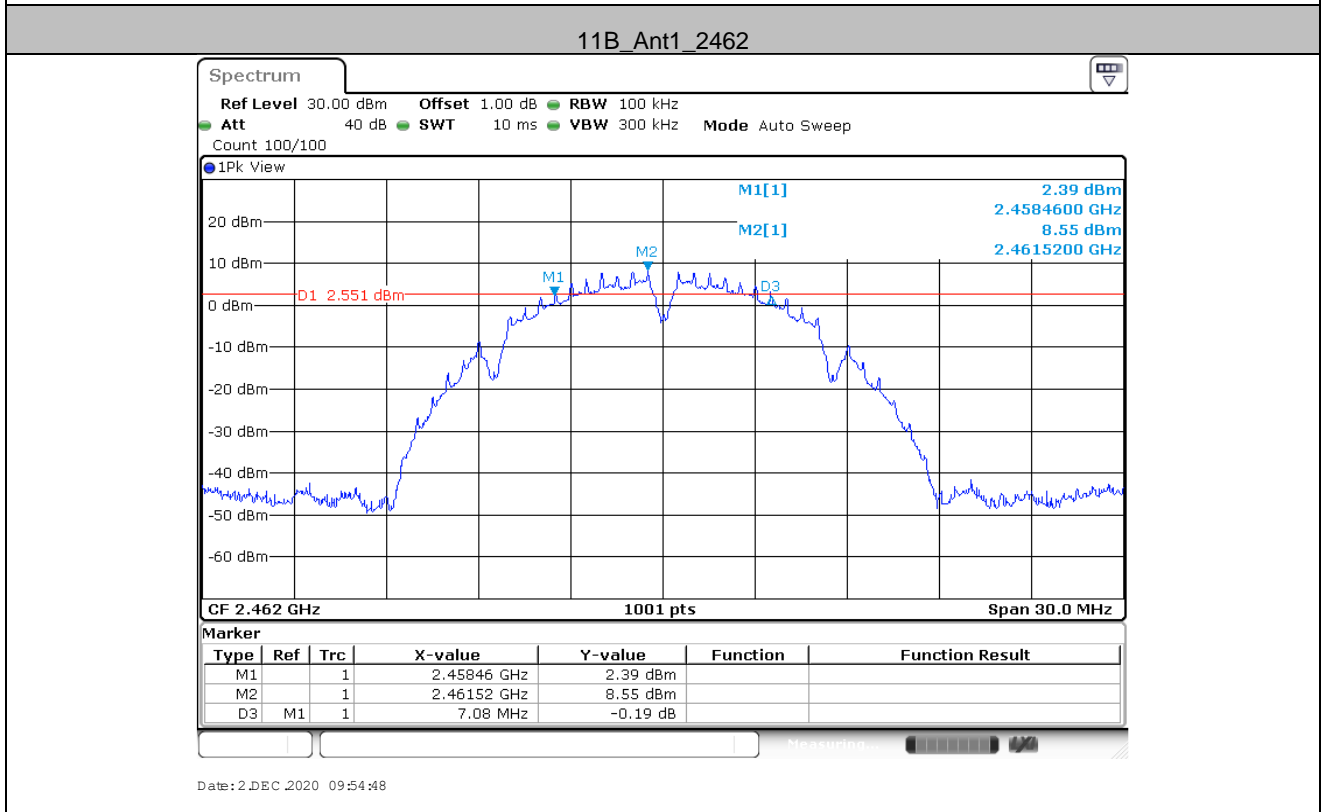
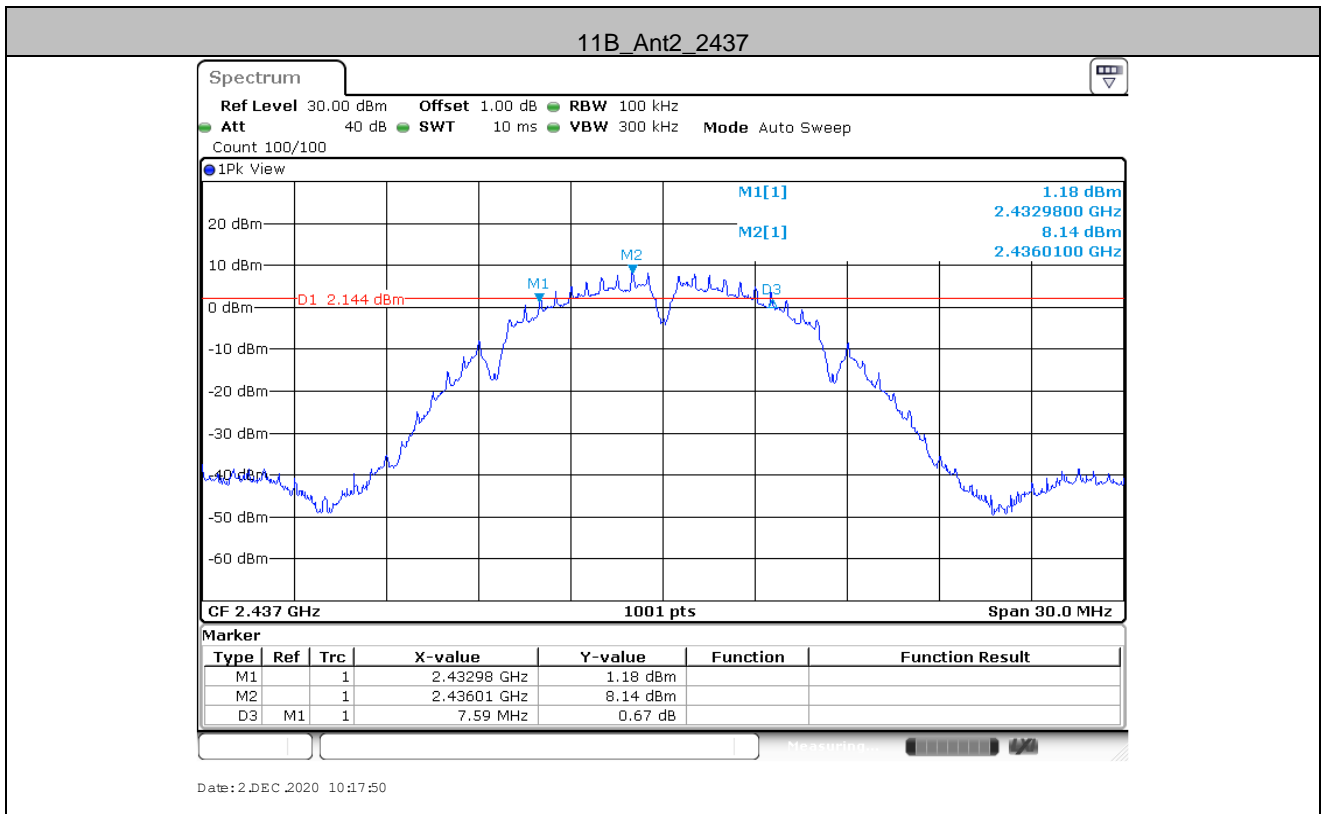
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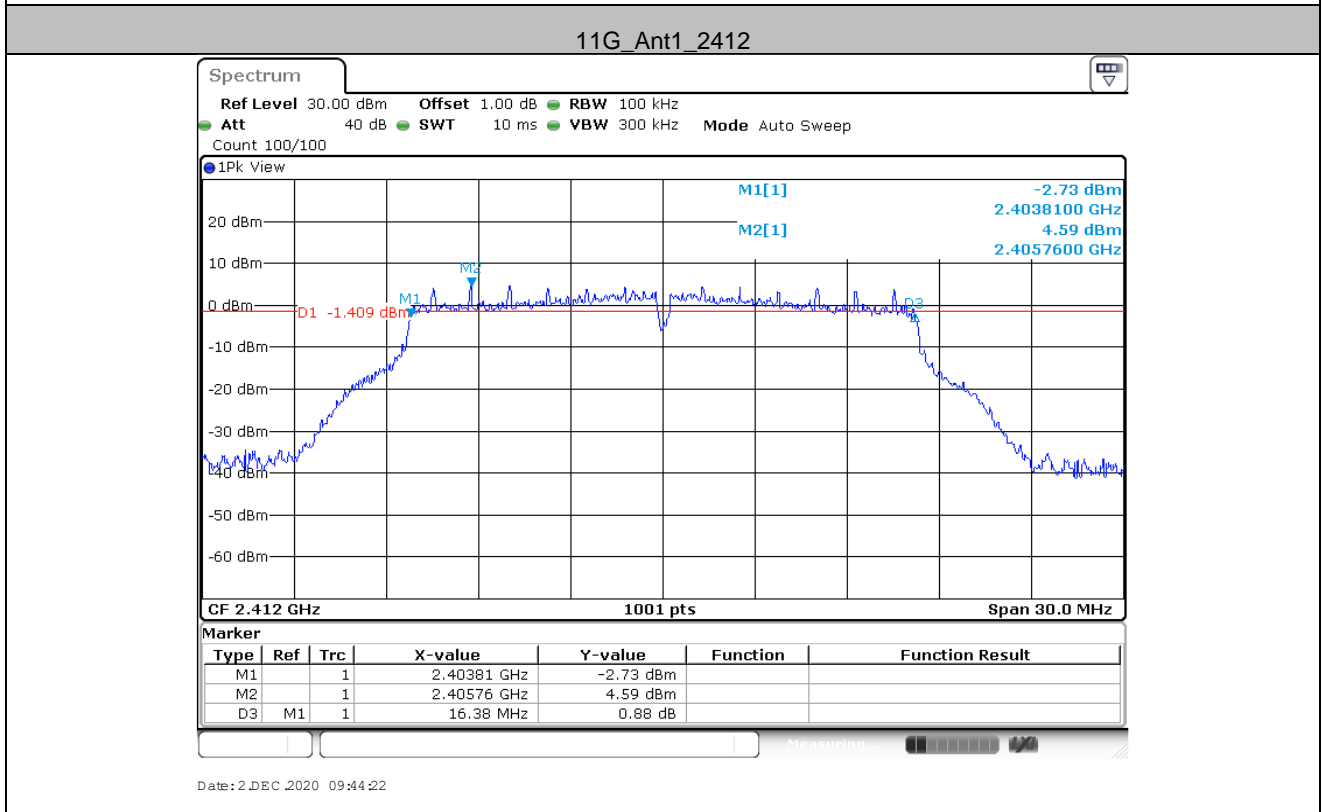
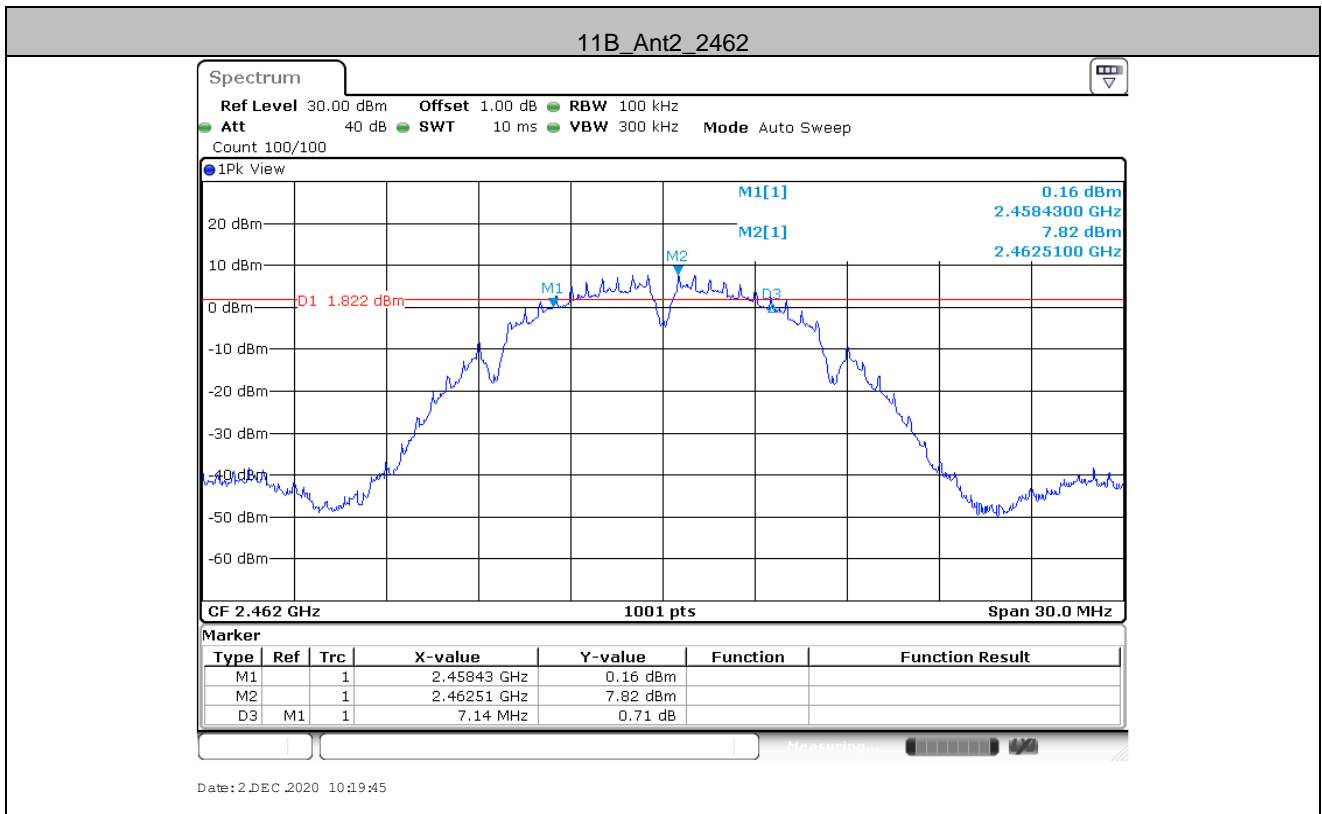
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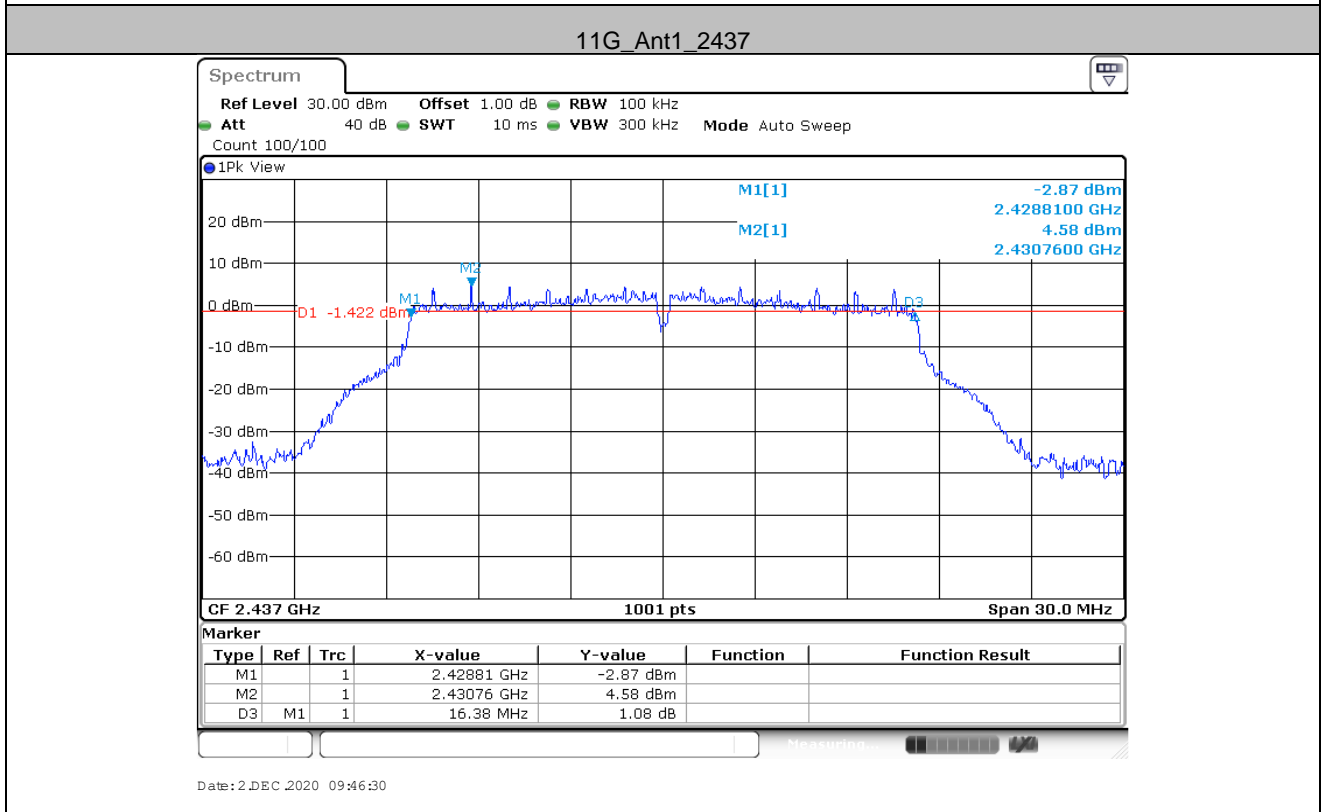
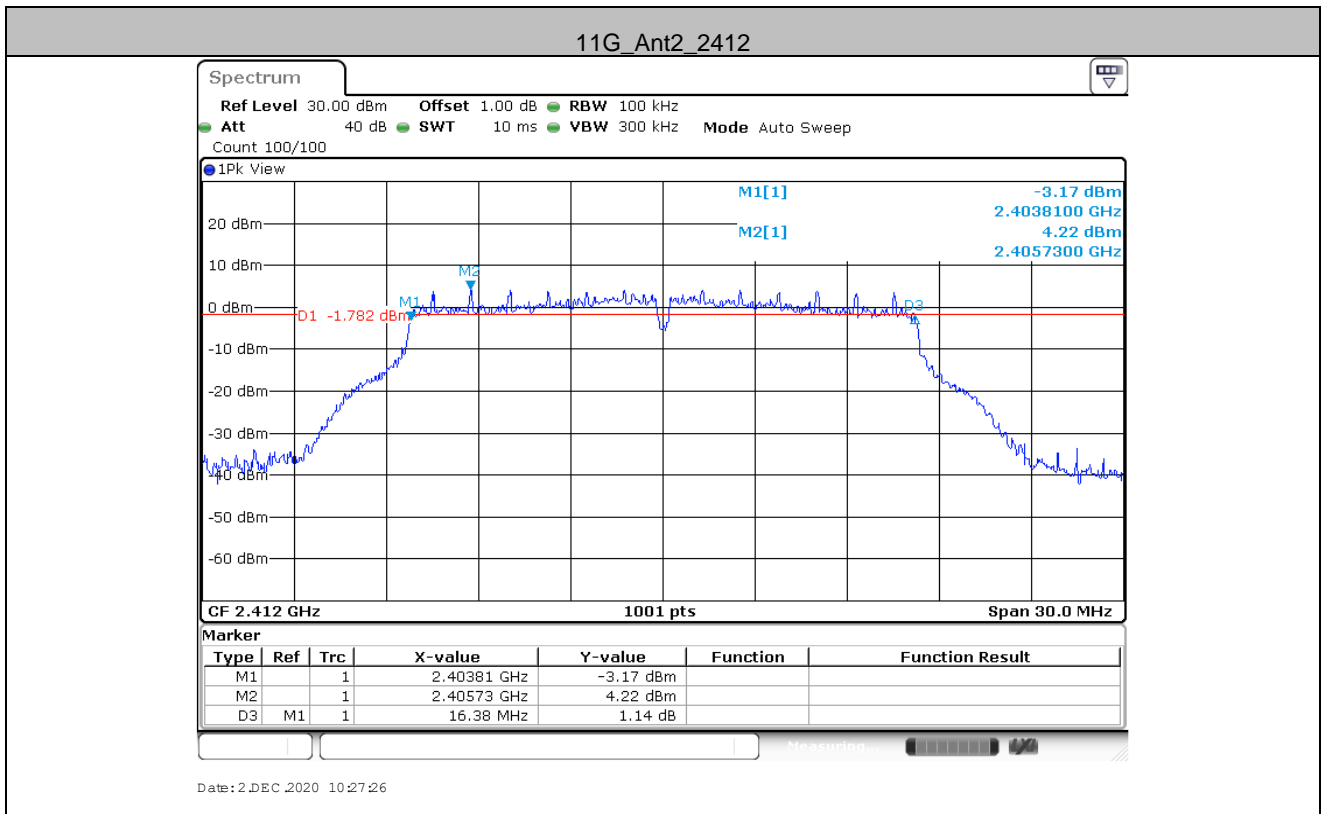
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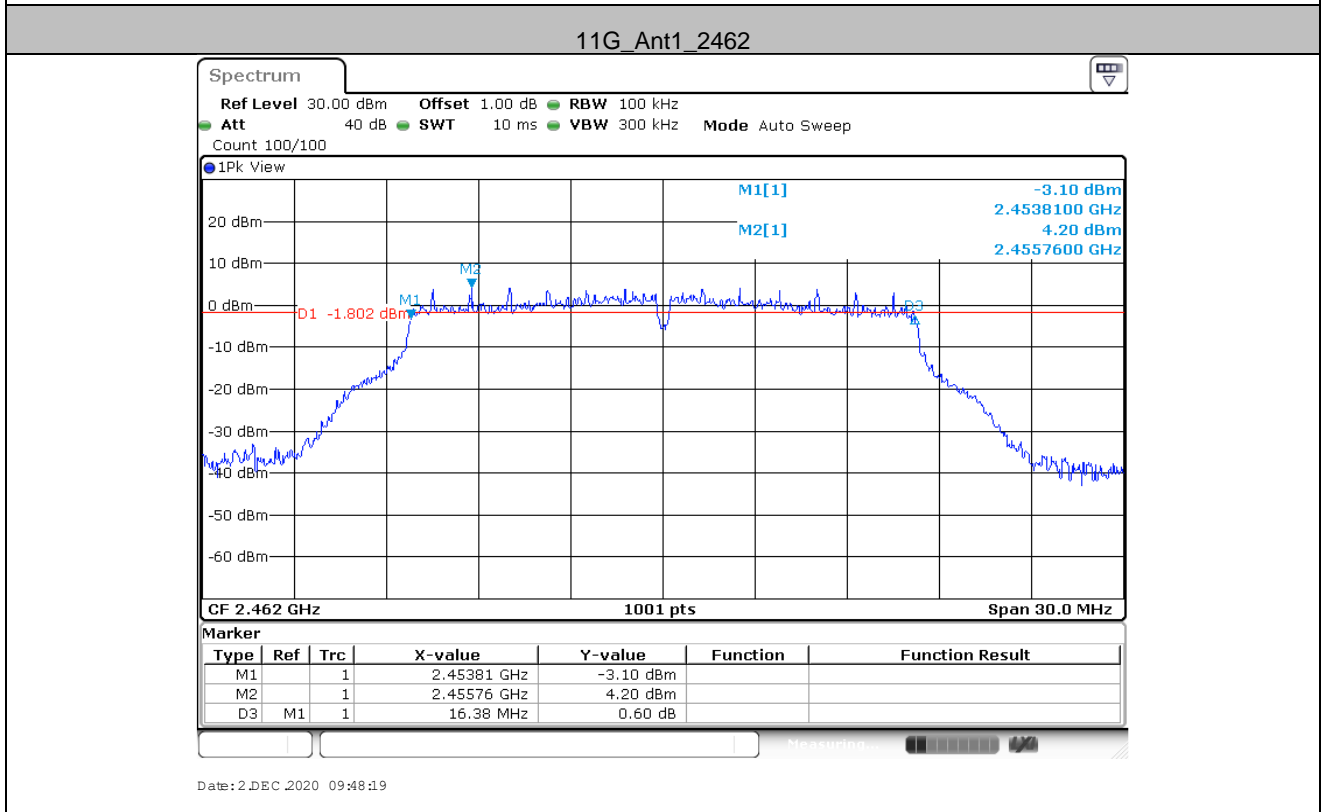
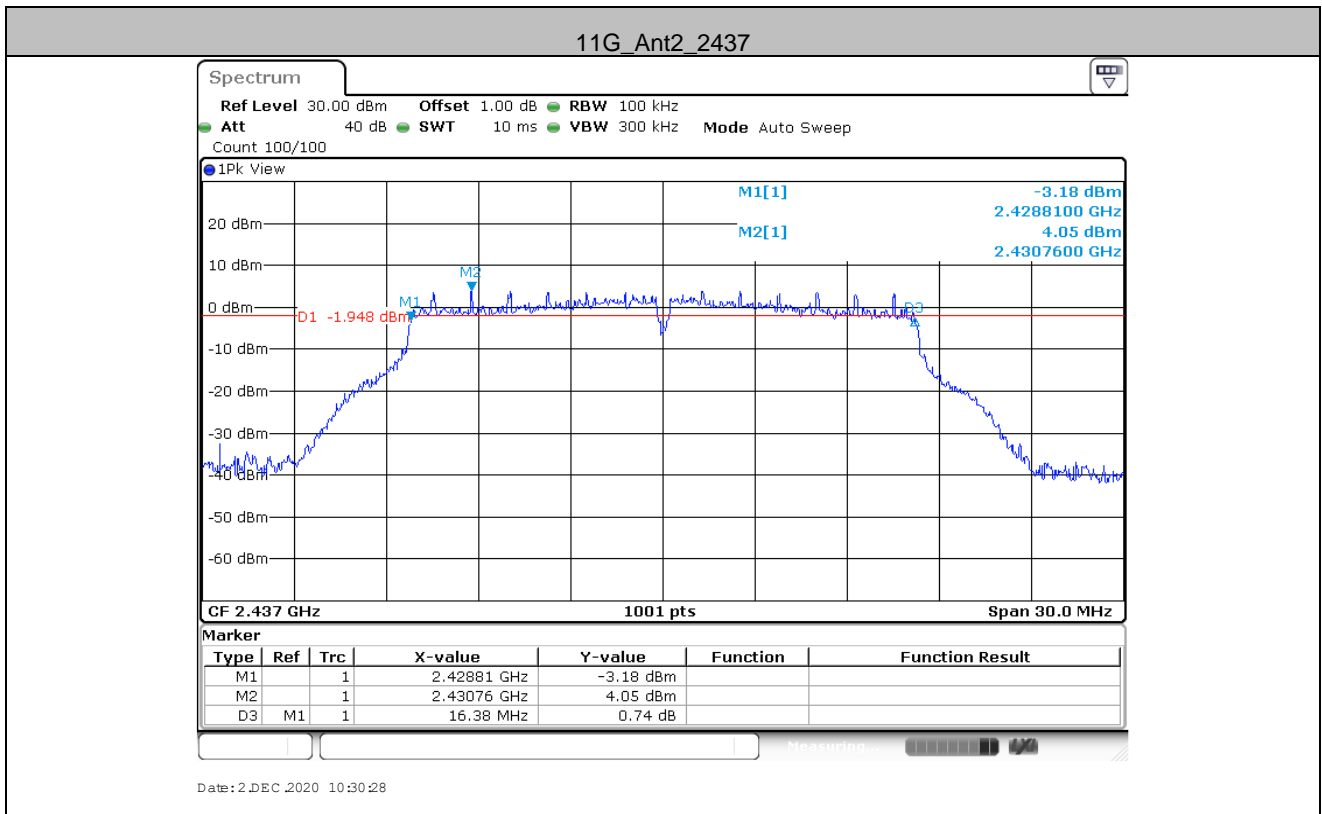
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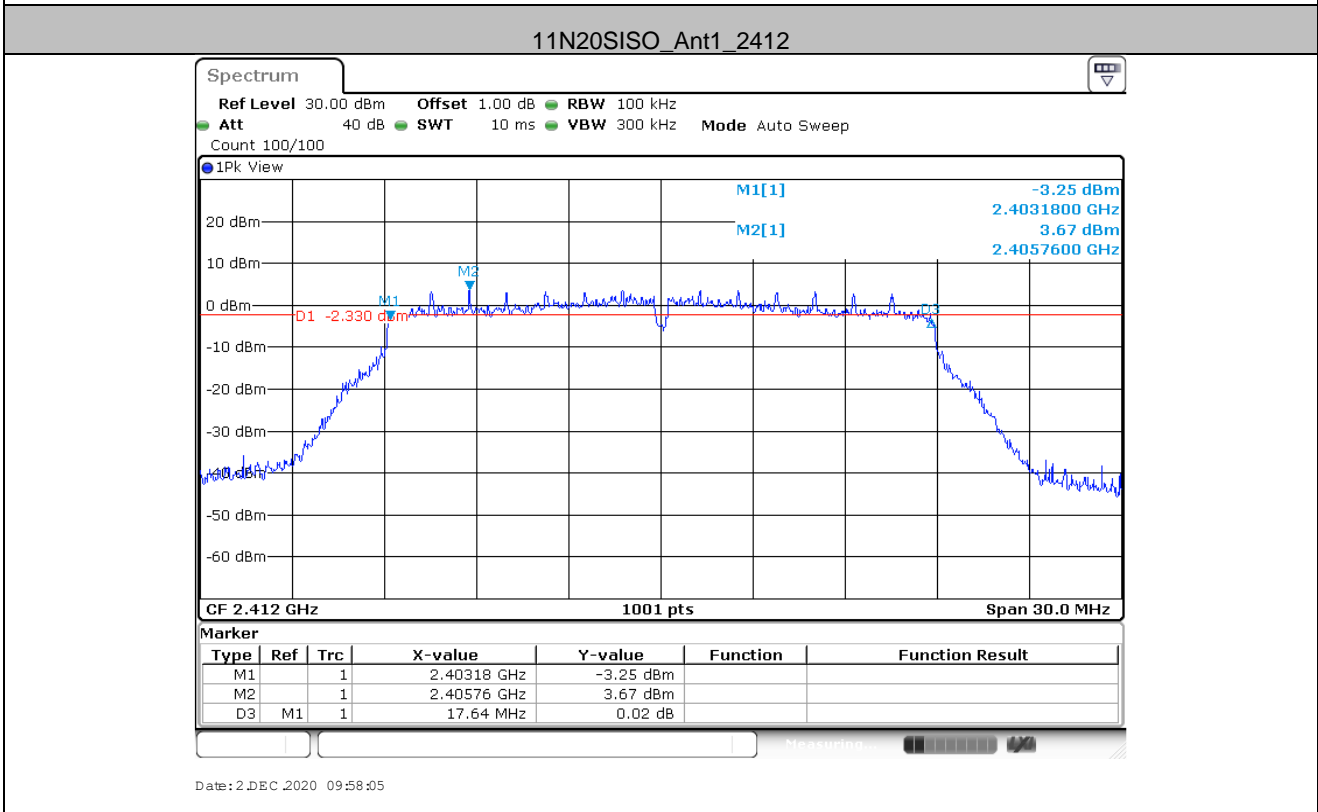
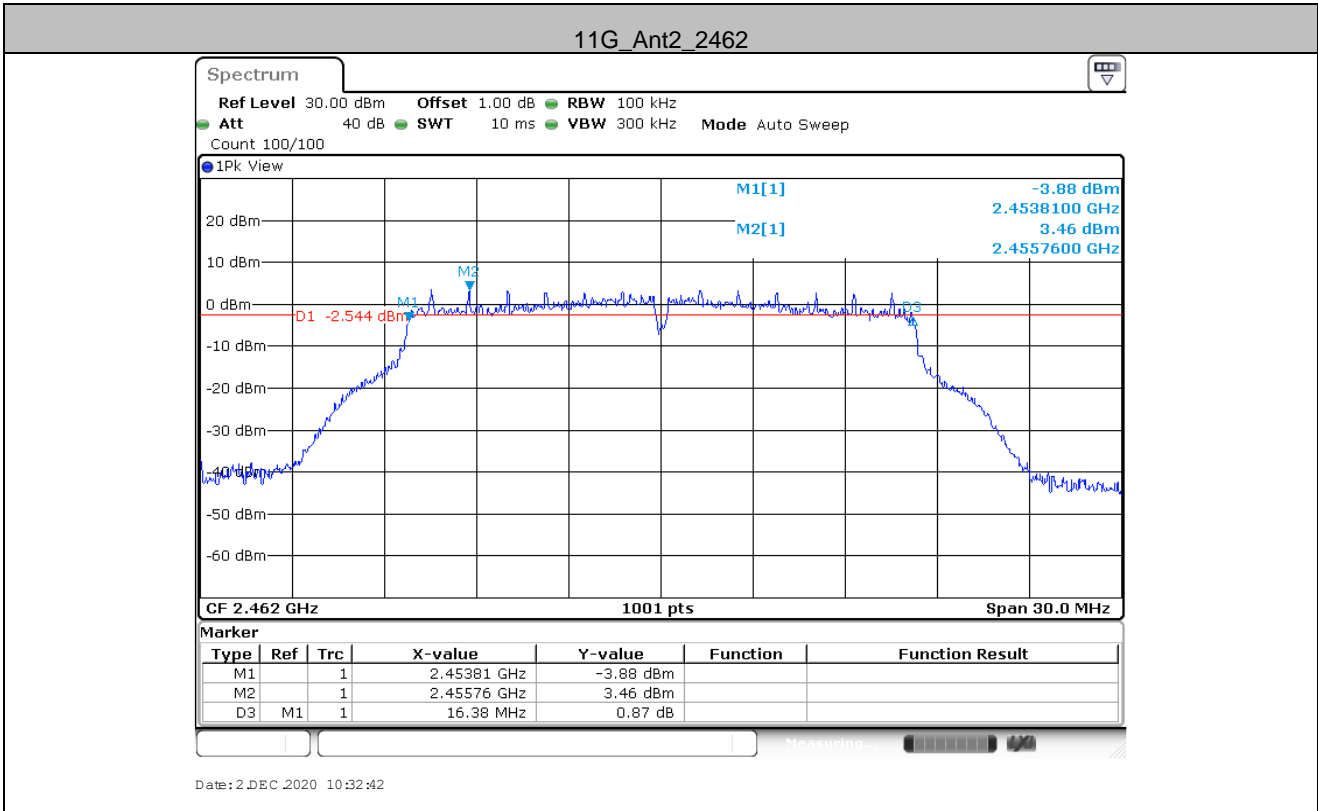
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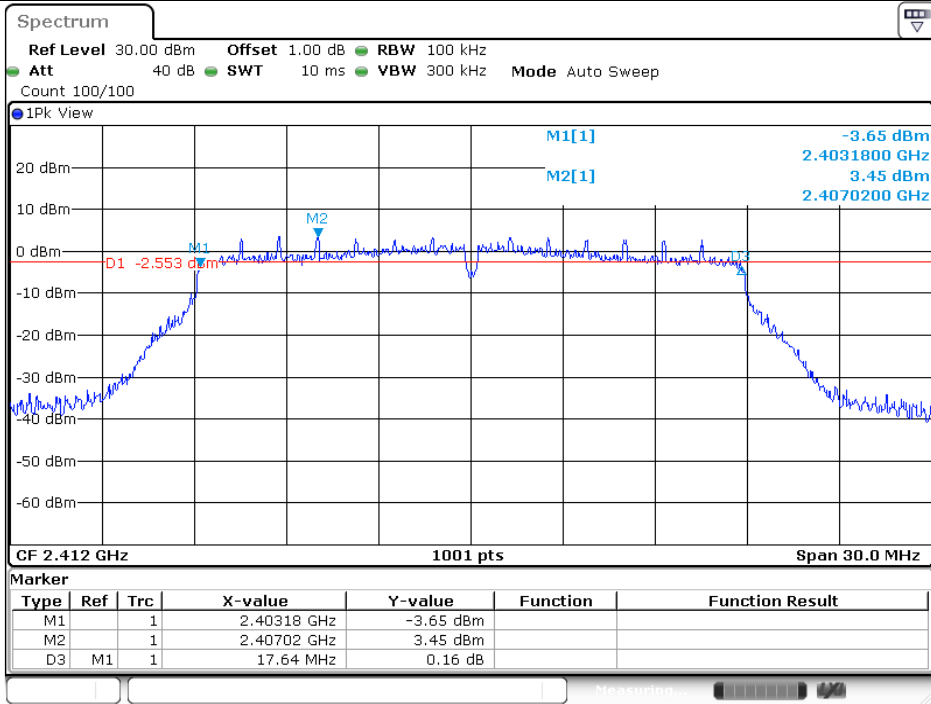
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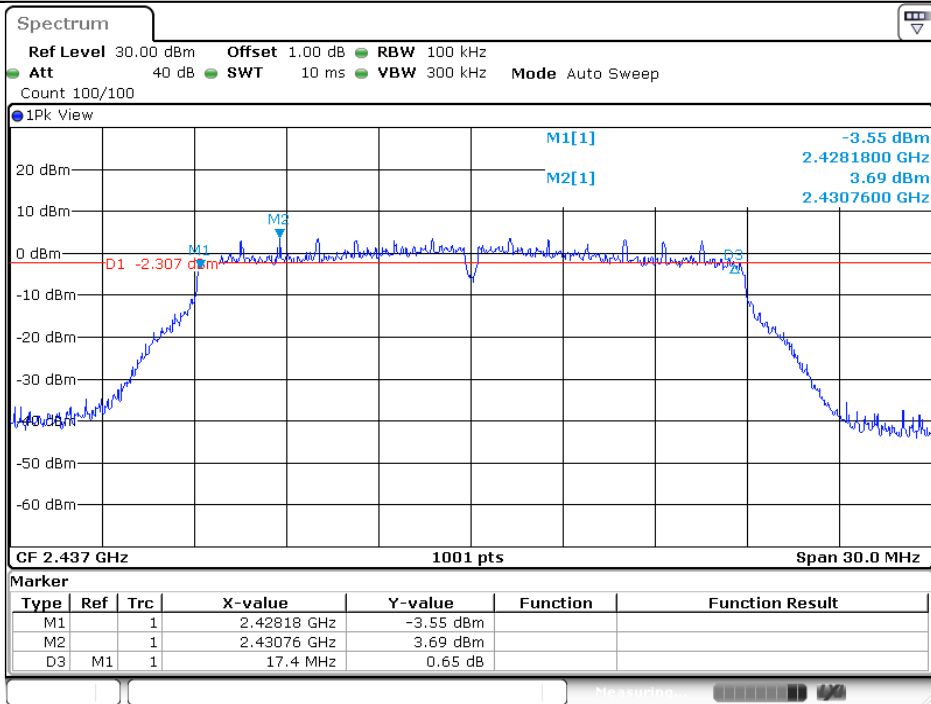
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11N20SISO\_Ant2\_2412



Date: 2.DEC.2020 10:07:15

11N20SISO\_Ant1\_2437



Date: 2.DEC.2020 10:00:49

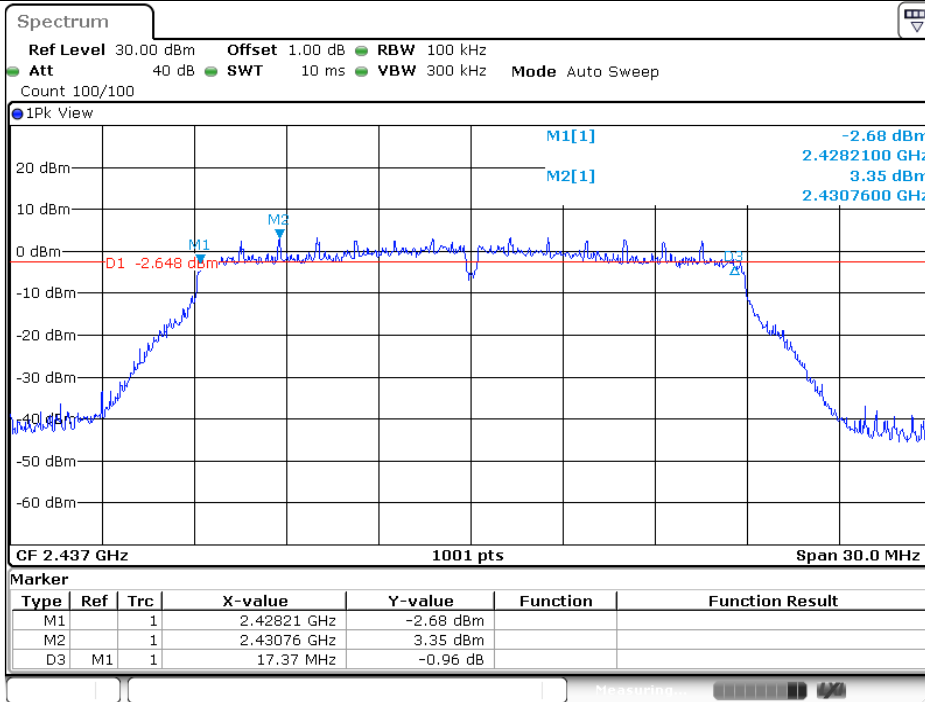


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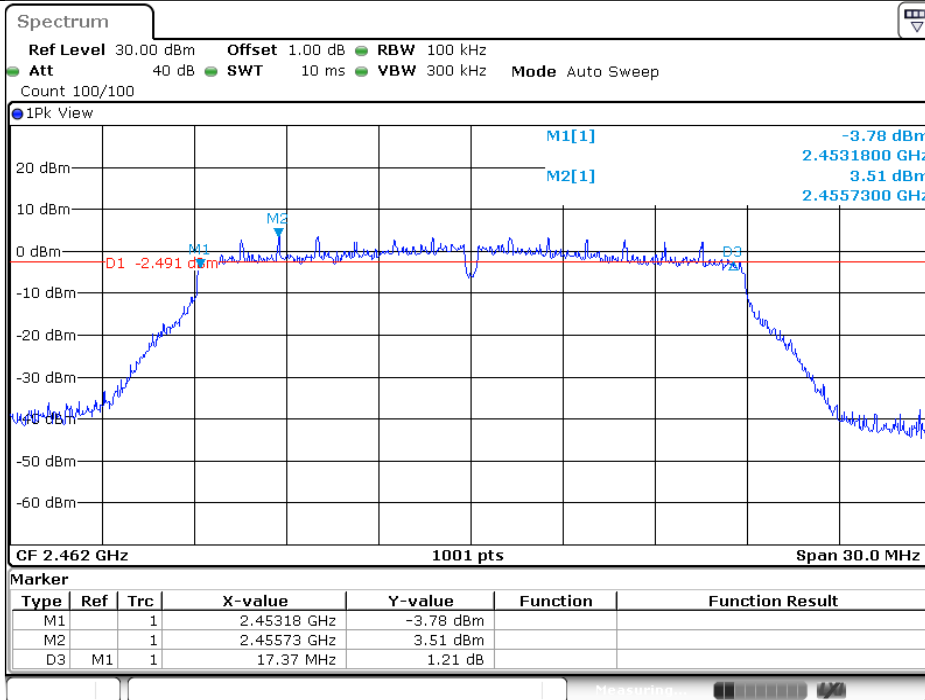


11N20SISO\_Ant2\_2437



Date: 2.DEC.2020 10:09:55

11N20SISO\_Ant1\_2462

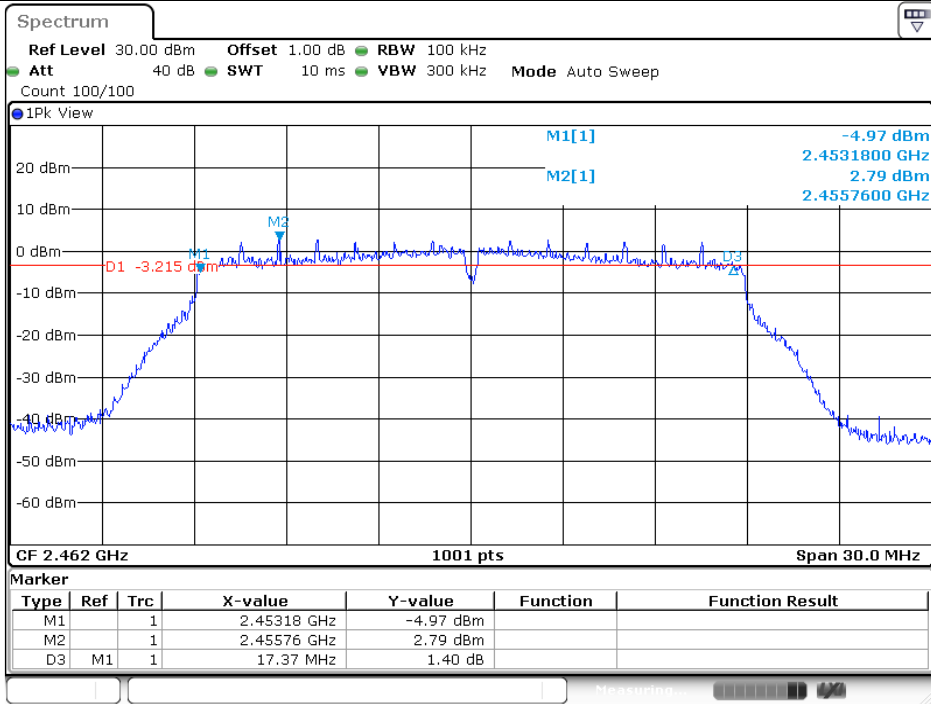


Date: 2.DEC.2020 10:03:03



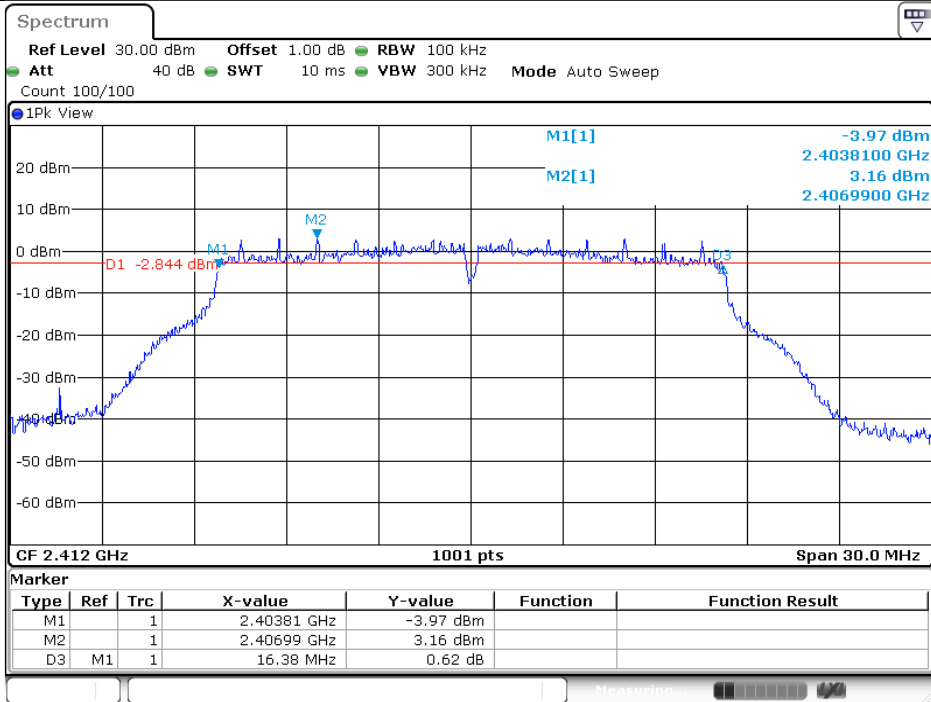
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11N20SISO\_Ant2\_2462



Date: 2.DEC.2020 10:12:01

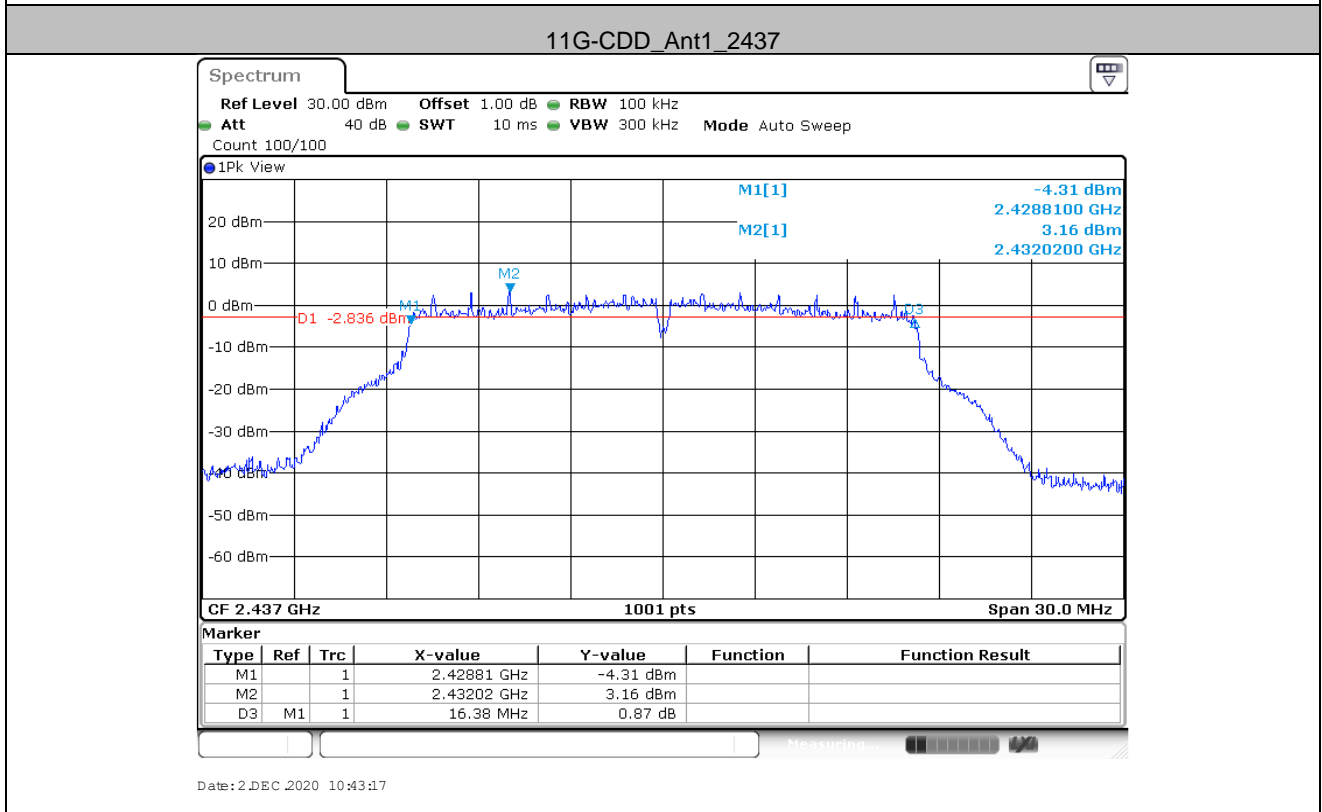
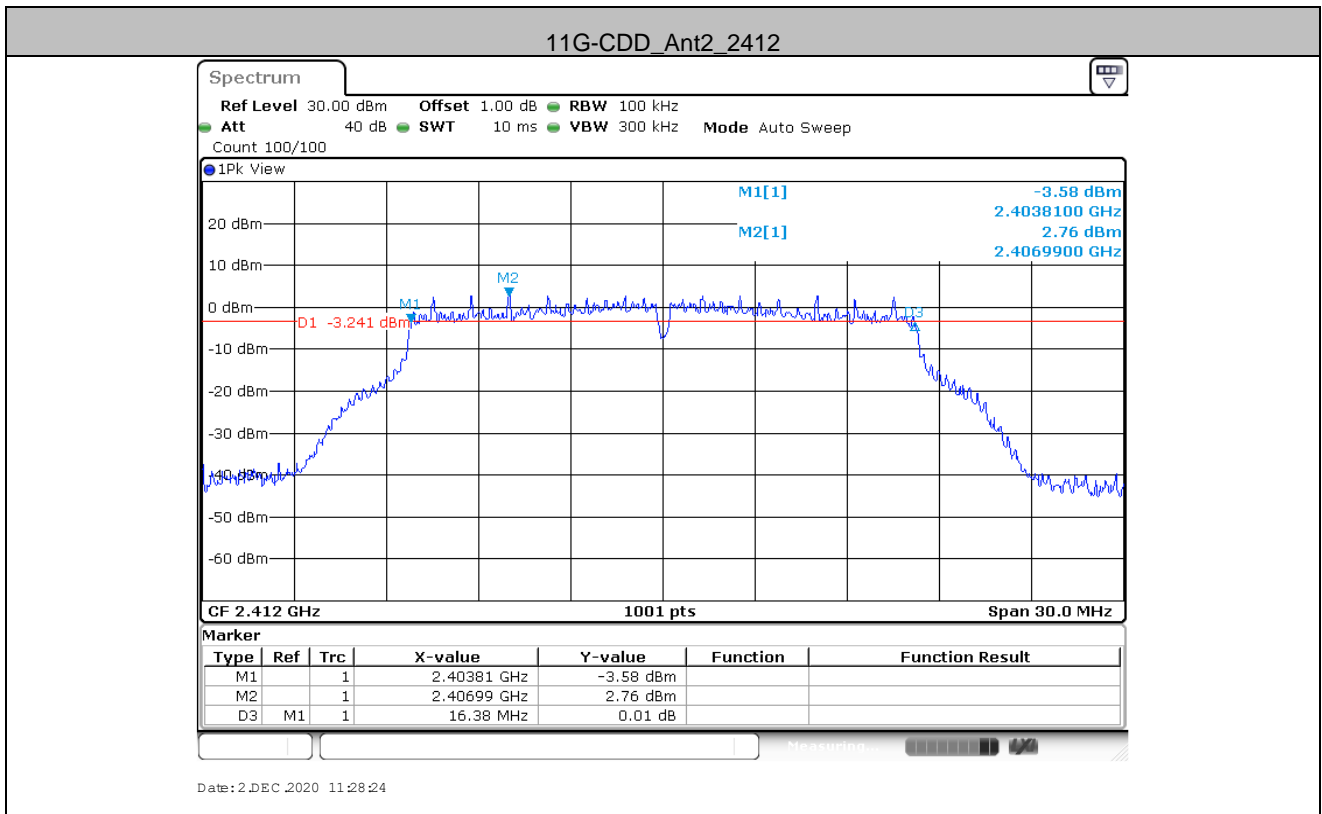
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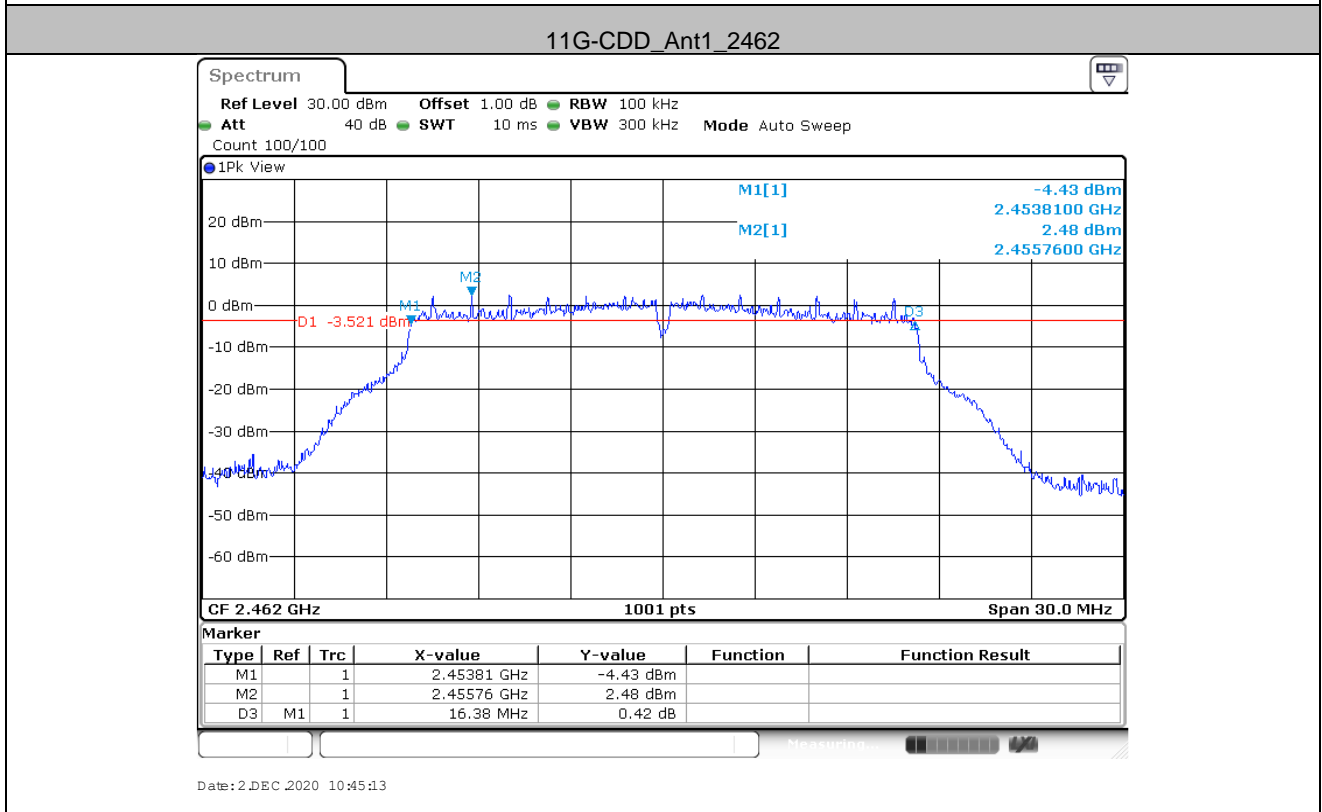
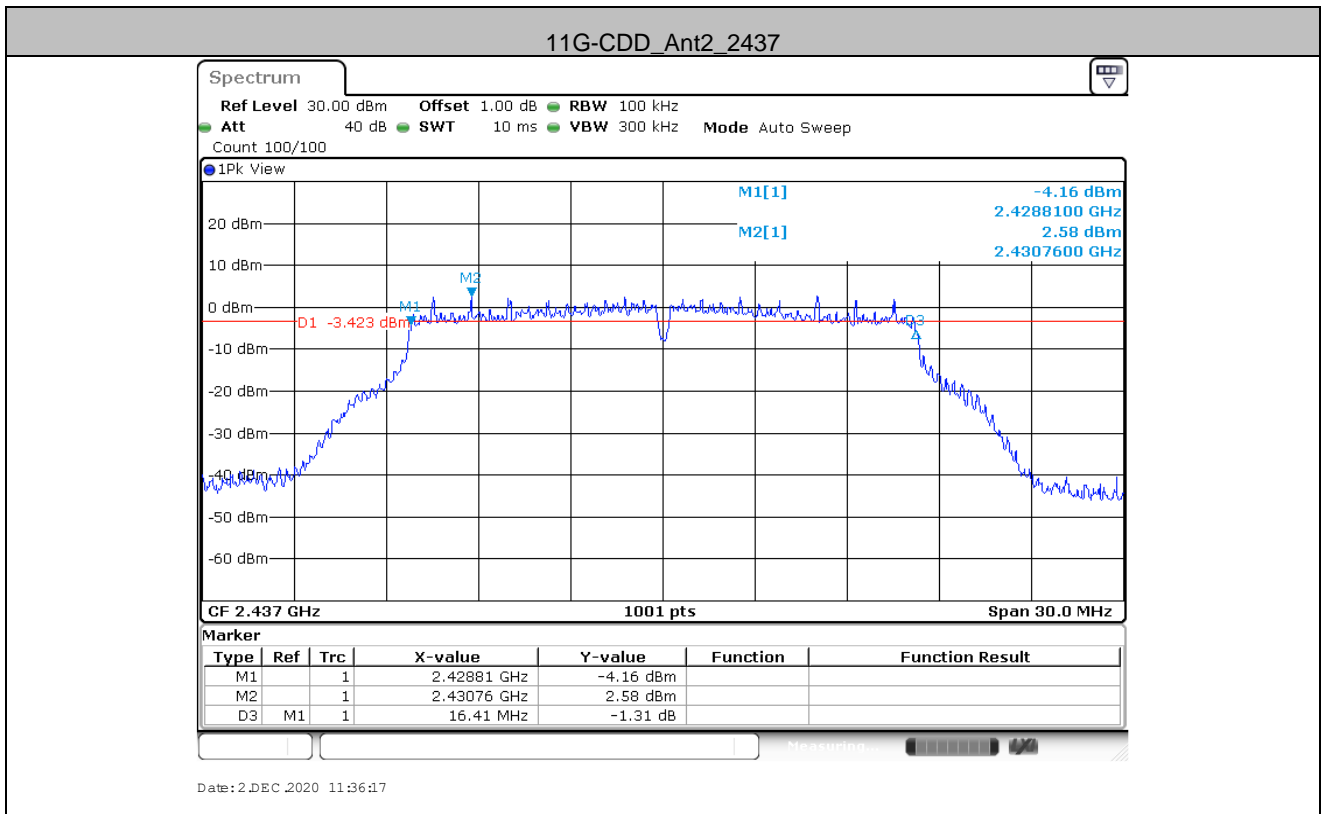
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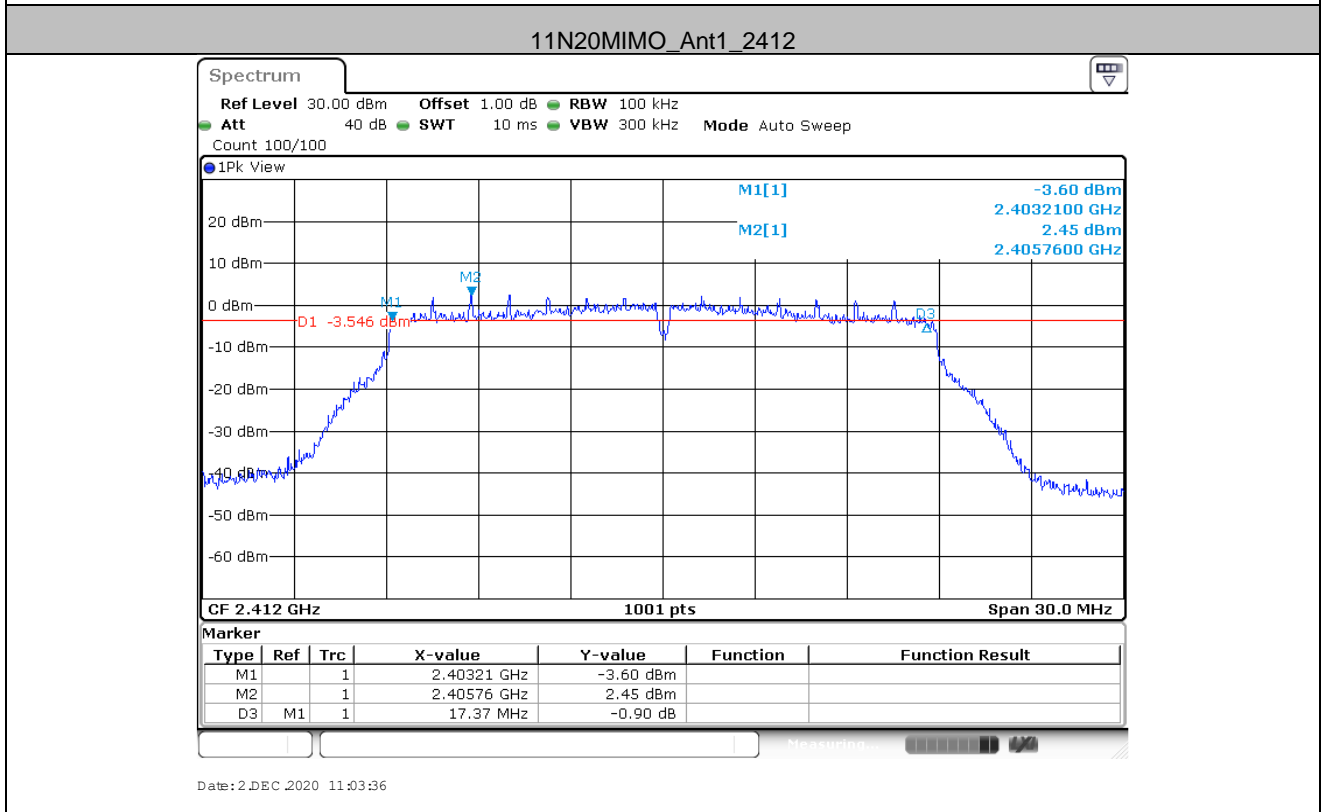
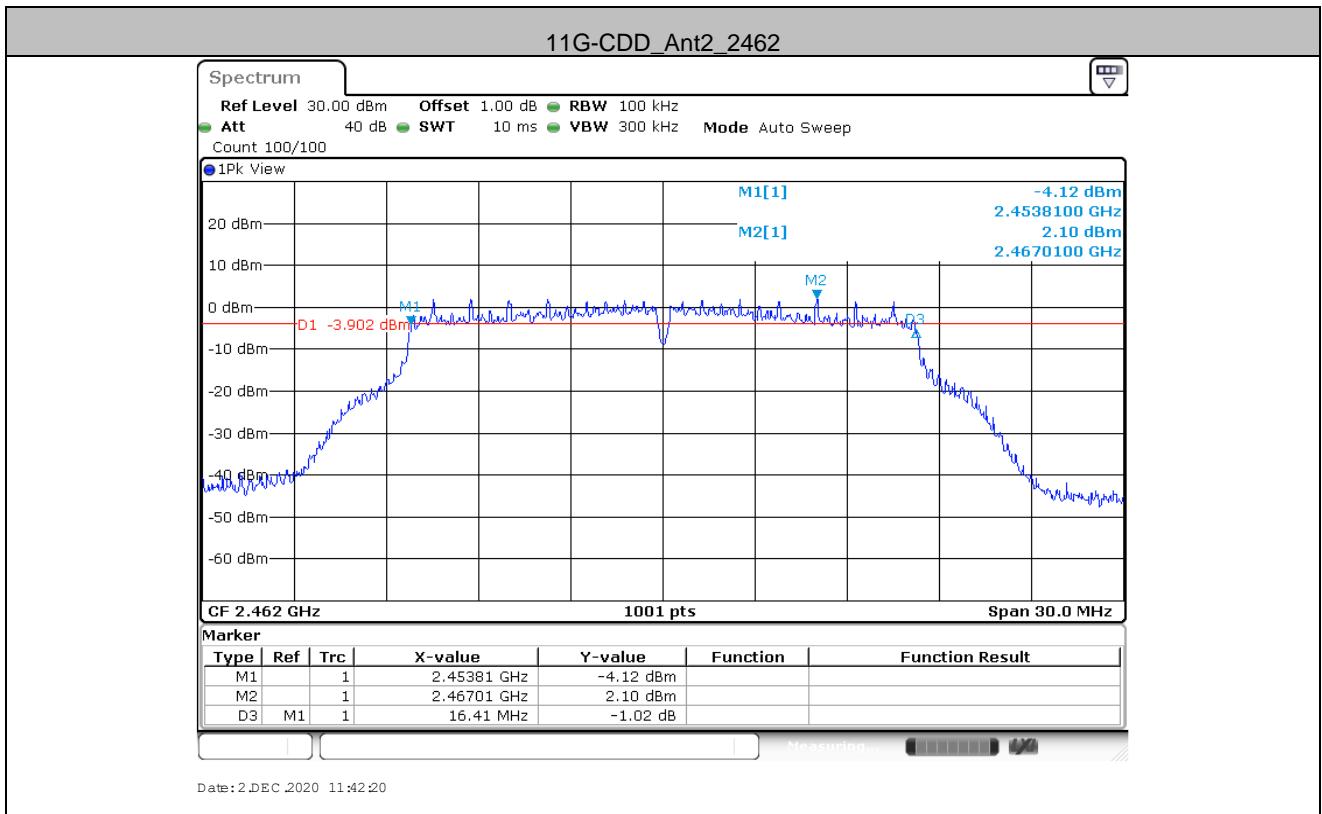
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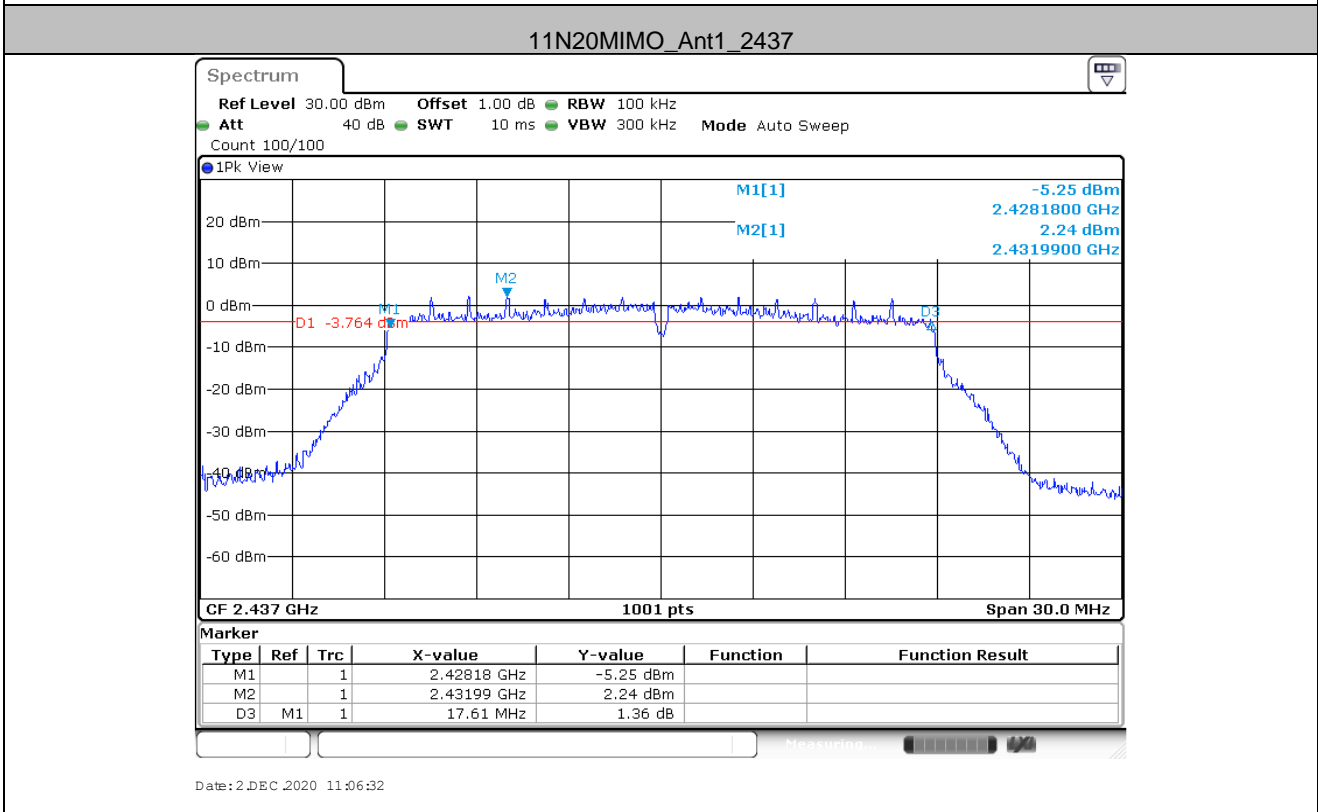
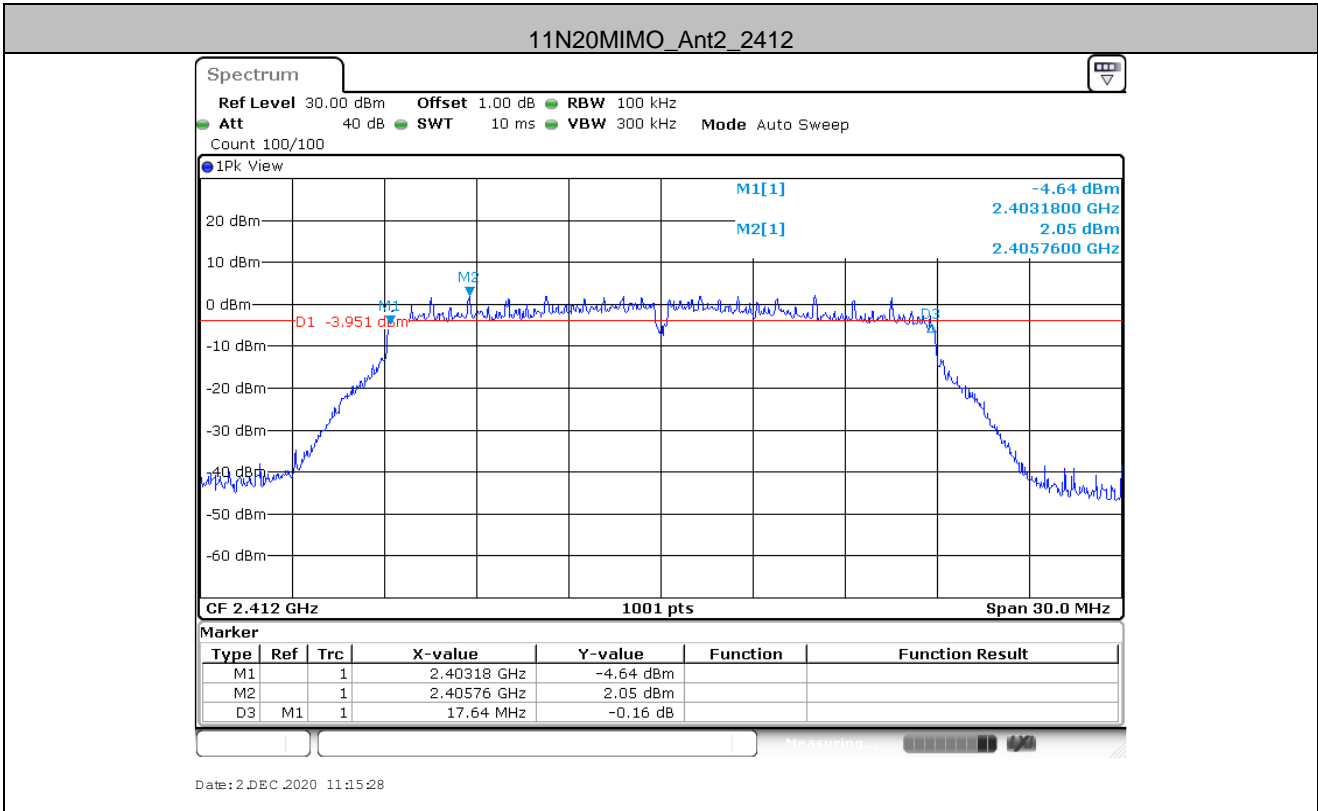
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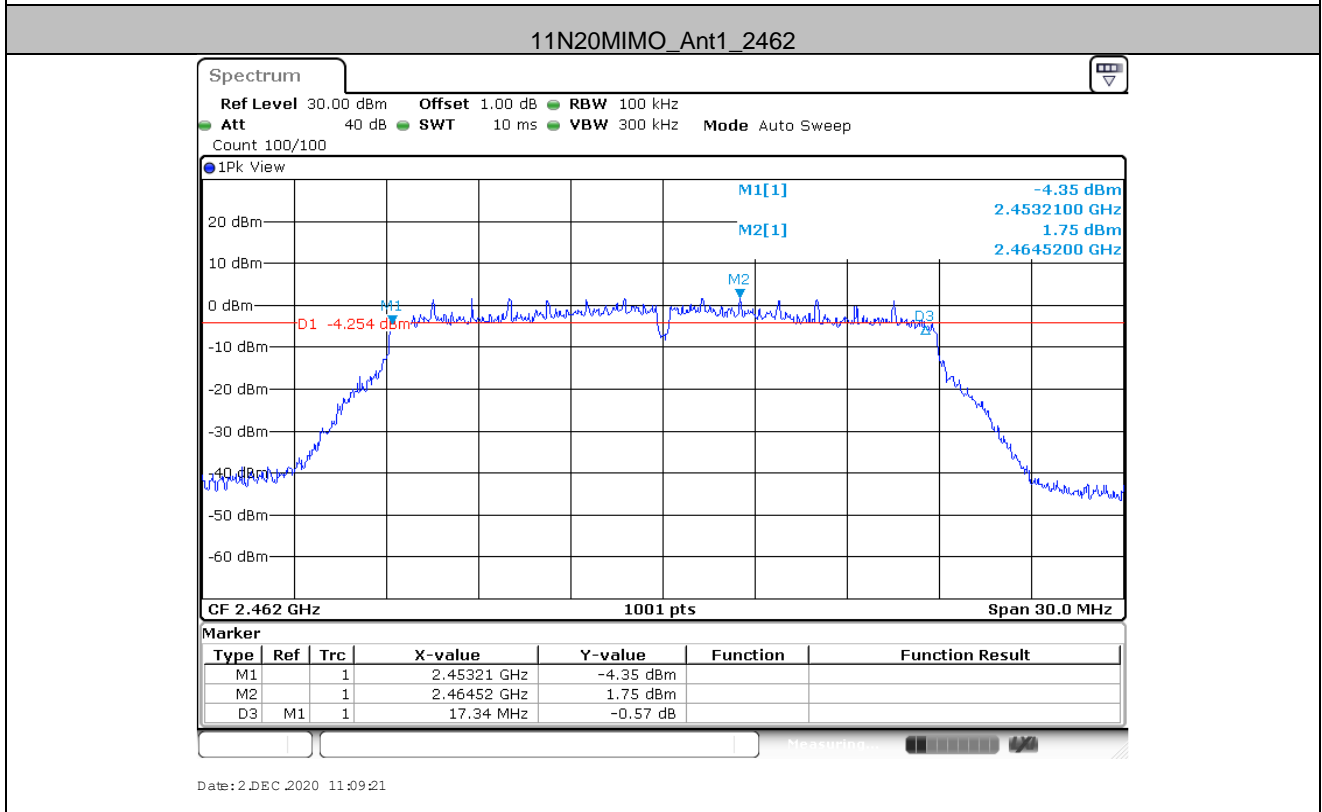
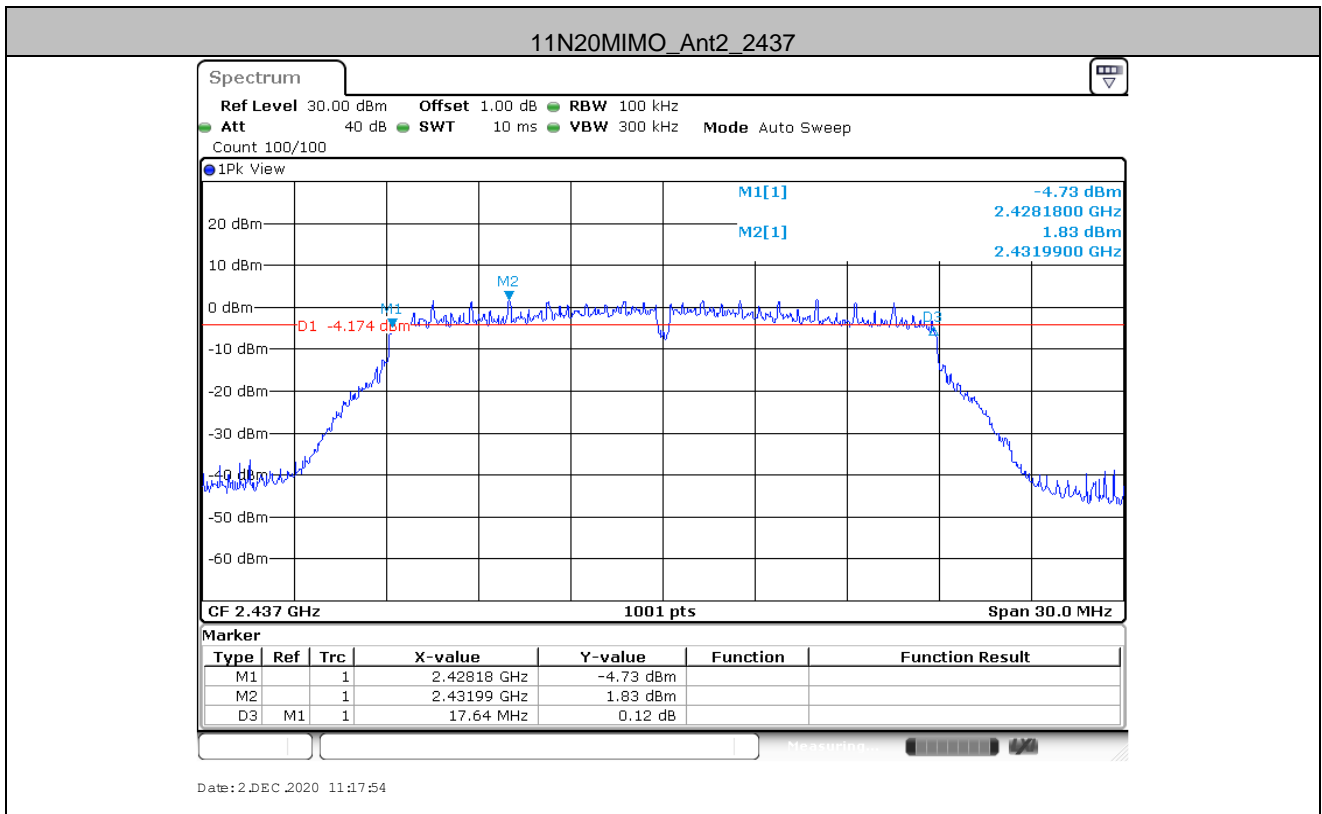
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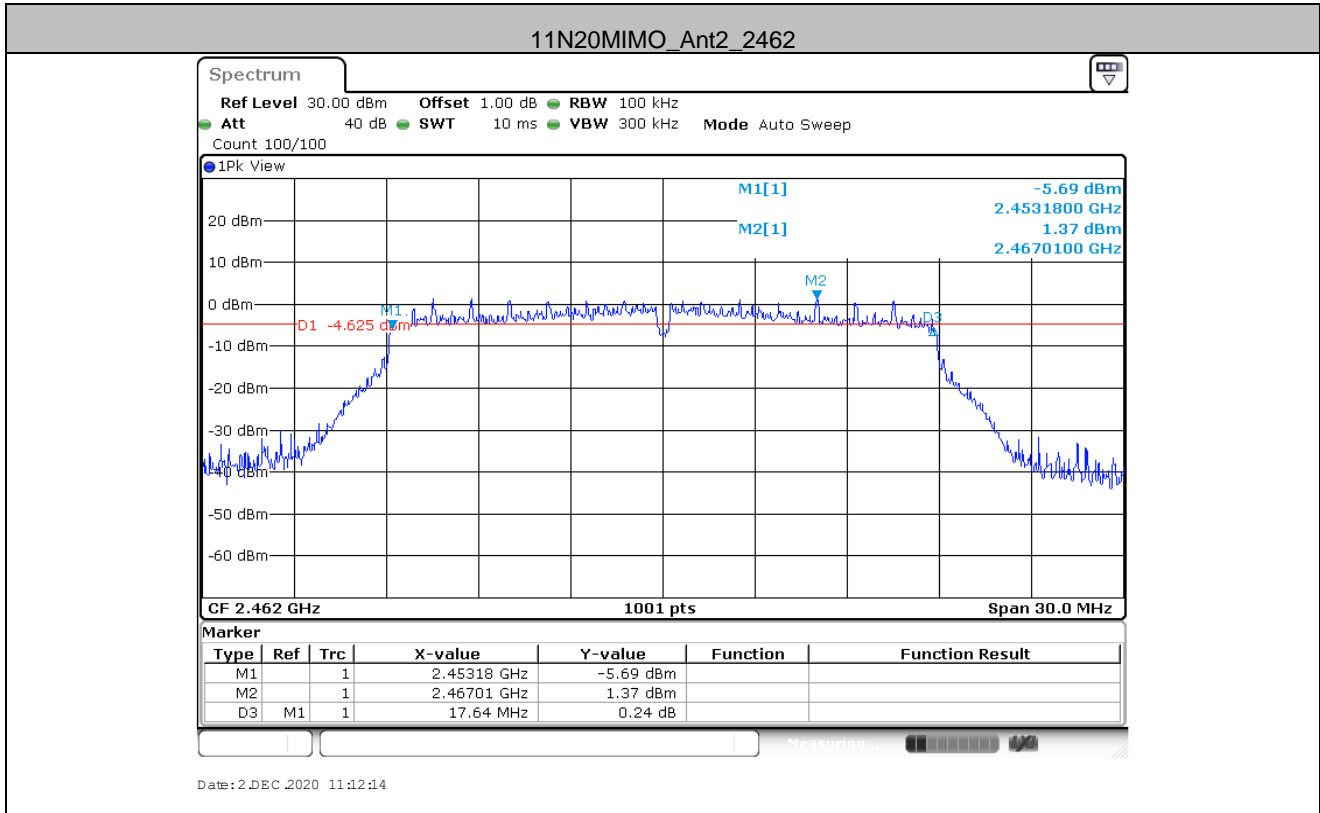
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**Occupied Channel Bandwidth**

**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.28	2406.845	2417.125	---	PASS
	Ant2	2412	10.43	2406.785	2417.215	---	PASS
	Ant1	2437	10.25	2431.875	2442.125	---	PASS
	Ant2	2437	10.37	2431.815	2442.185	---	PASS
	Ant1	2462	10.22	2456.875	2467.095	---	PASS
	Ant2	2462	10.37	2456.785	2467.155	---	PASS
11G	Ant1	2412	16.993	2403.429	2420.422	---	PASS
	Ant2	2412	16.963	2403.459	2420.422	---	PASS
	Ant1	2437	16.963	2428.459	2445.422	---	PASS
	Ant2	2437	16.963	2428.459	2445.422	---	PASS
	Ant1	2462	16.963	2453.459	2470.422	---	PASS
	Ant2	2462	16.963	2453.459	2470.422	---	PASS
11N20SISO	Ant1	2412	18.072	2402.919	2420.991	---	PASS
	Ant2	2412	18.102	2402.919	2421.021	---	PASS
	Ant1	2437	18.102	2427.919	2446.021	---	PASS
	Ant2	2437	18.102	2427.919	2446.021	---	PASS
	Ant1	2462	18.072	2452.919	2470.991	---	PASS
	Ant2	2462	18.072	2452.919	2470.991	---	PASS
11G-CDD	Ant1	2412	16.963	2403.459	2420.422	---	PASS
	Ant2	2412	16.873	2403.668	2420.541	---	PASS
	Ant1	2437	16.963	2428.459	2445.422	---	PASS
	Ant2	2437	16.873	2428.668	2445.541	---	PASS
	Ant1	2462	16.933	2453.459	2470.392	---	PASS
	Ant2	2462	16.873	2453.668	2470.541	---	PASS
11N20MIM O	Ant1	2412	18.072	2402.919	2420.991	---	PASS
	Ant2	2412	17.802	2403.099	2420.901	---	PASS
	Ant1	2437	18.132	2427.889	2446.021	---	PASS
	Ant2	2437	17.802	2428.069	2445.871	---	PASS



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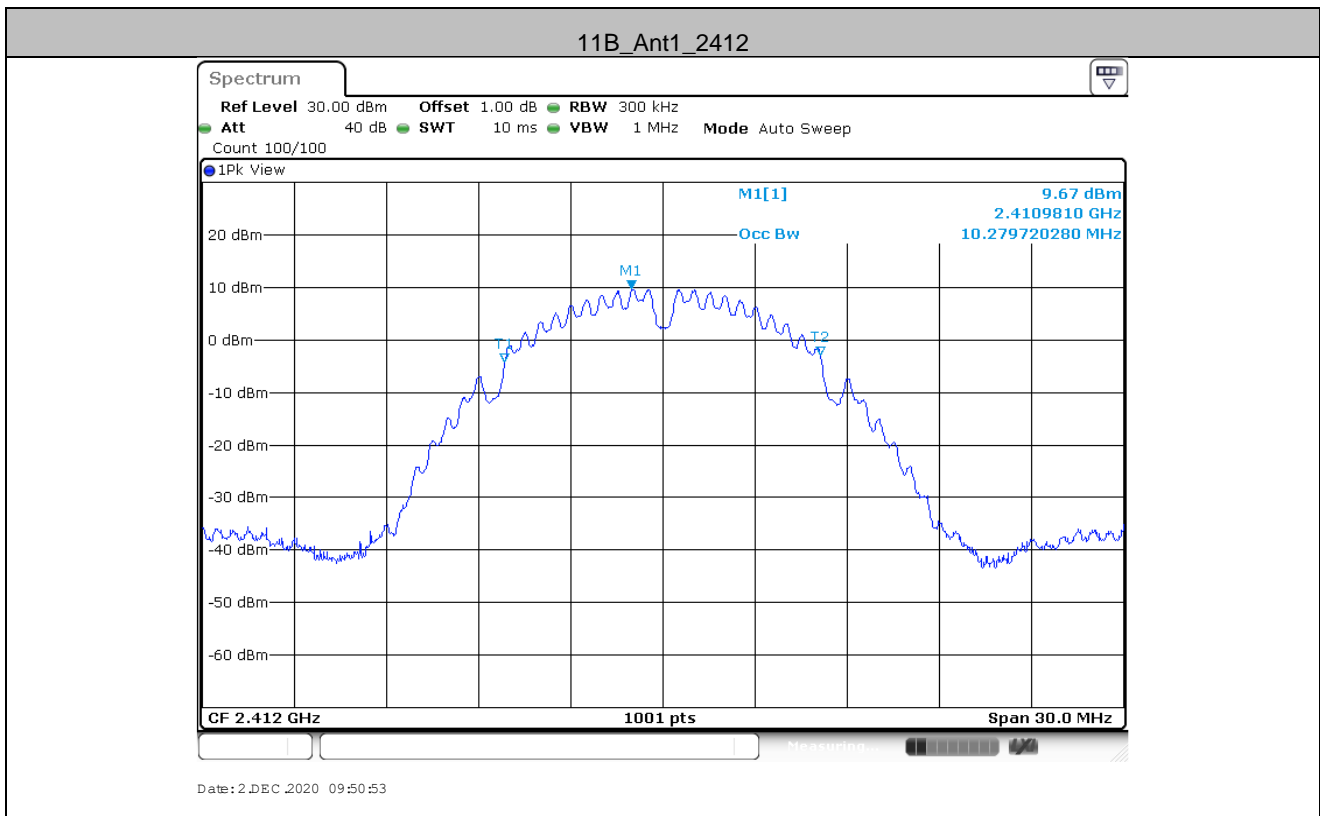
	Ant1	2462	18.072	2452.919	2470.991	---	PASS
	Ant2	2462	17.802	2453.069	2470.871	---	PASS



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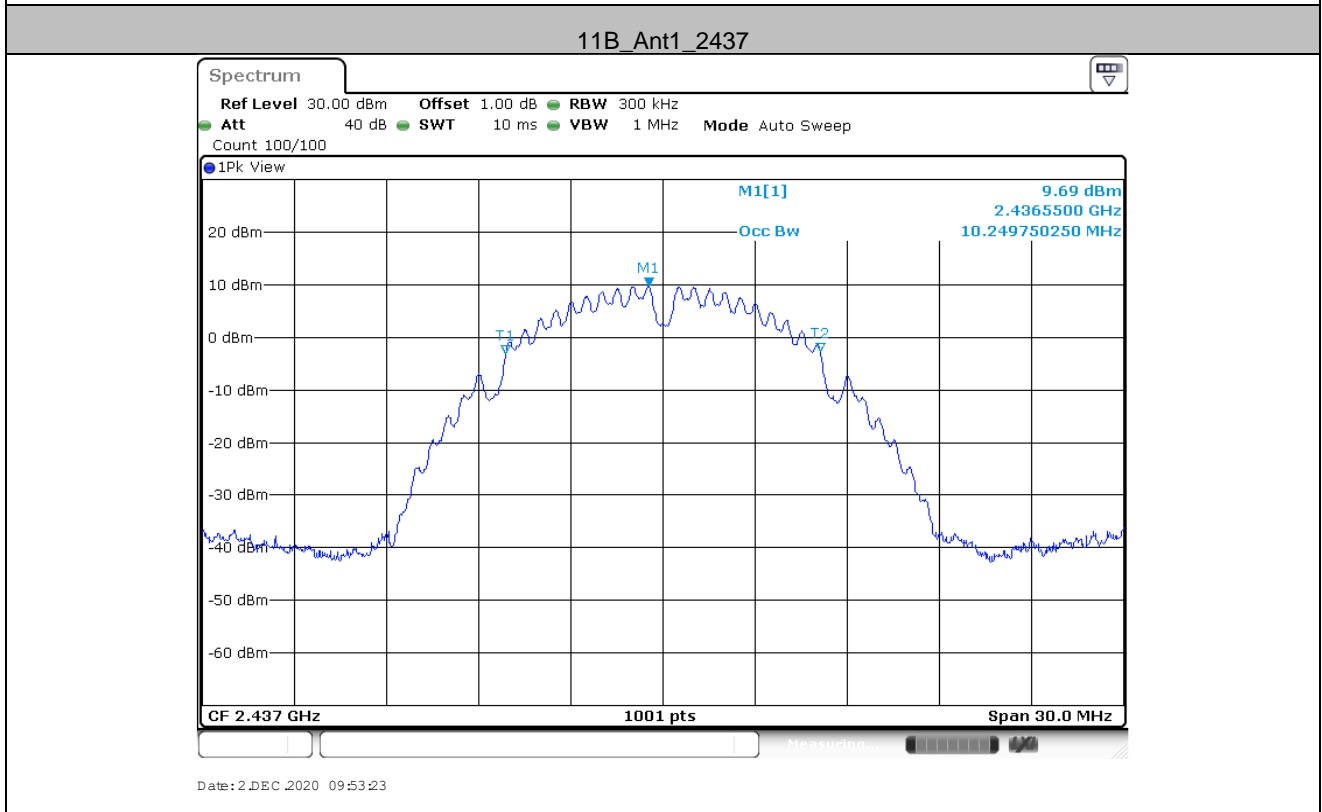
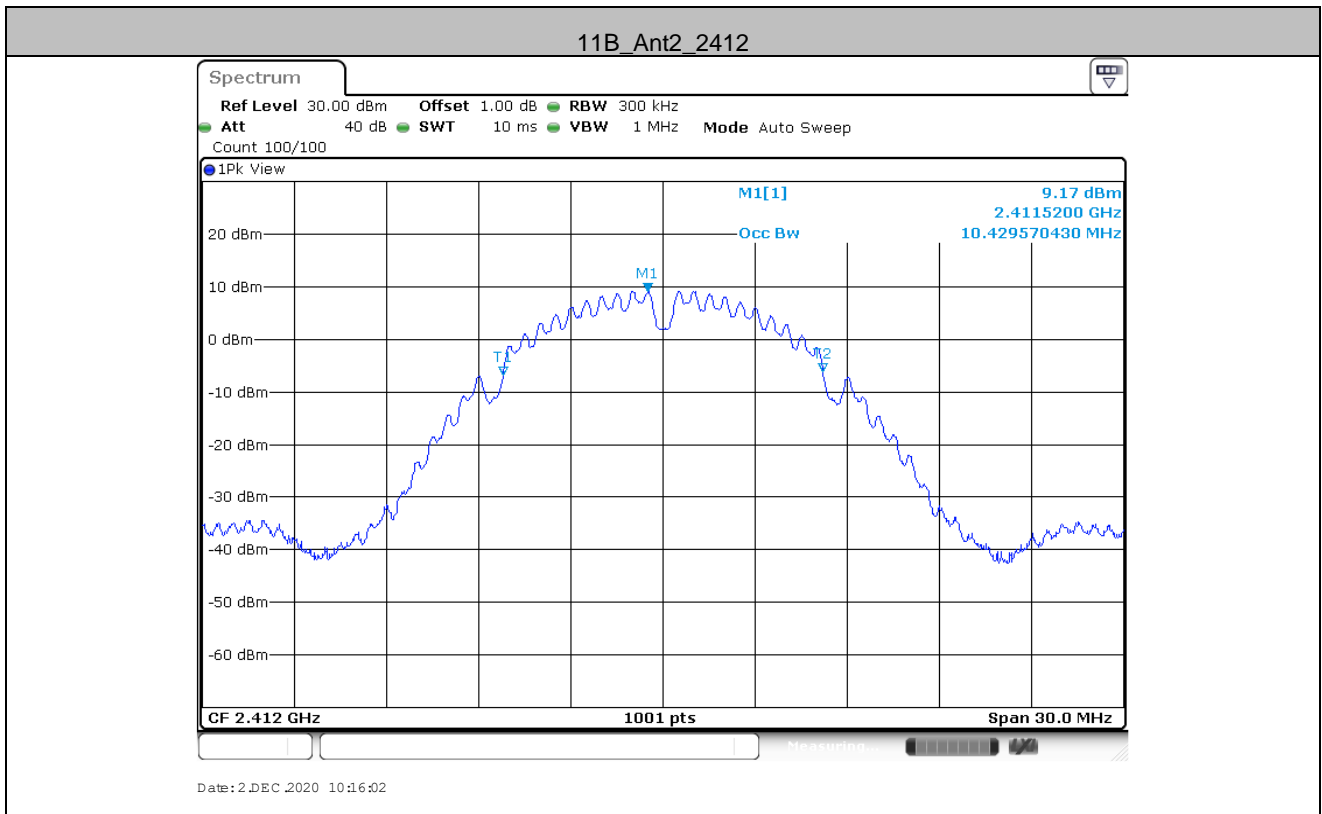
**Test Graphs**



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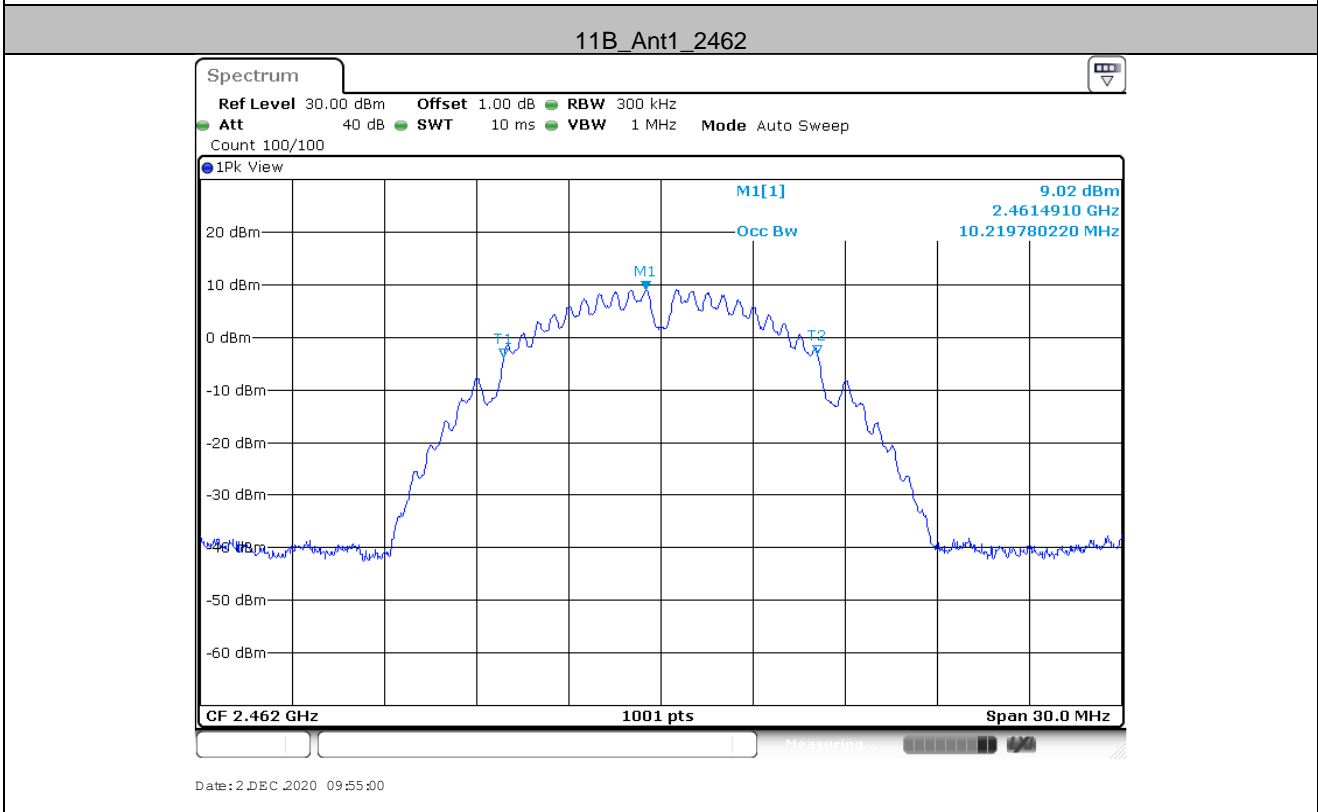
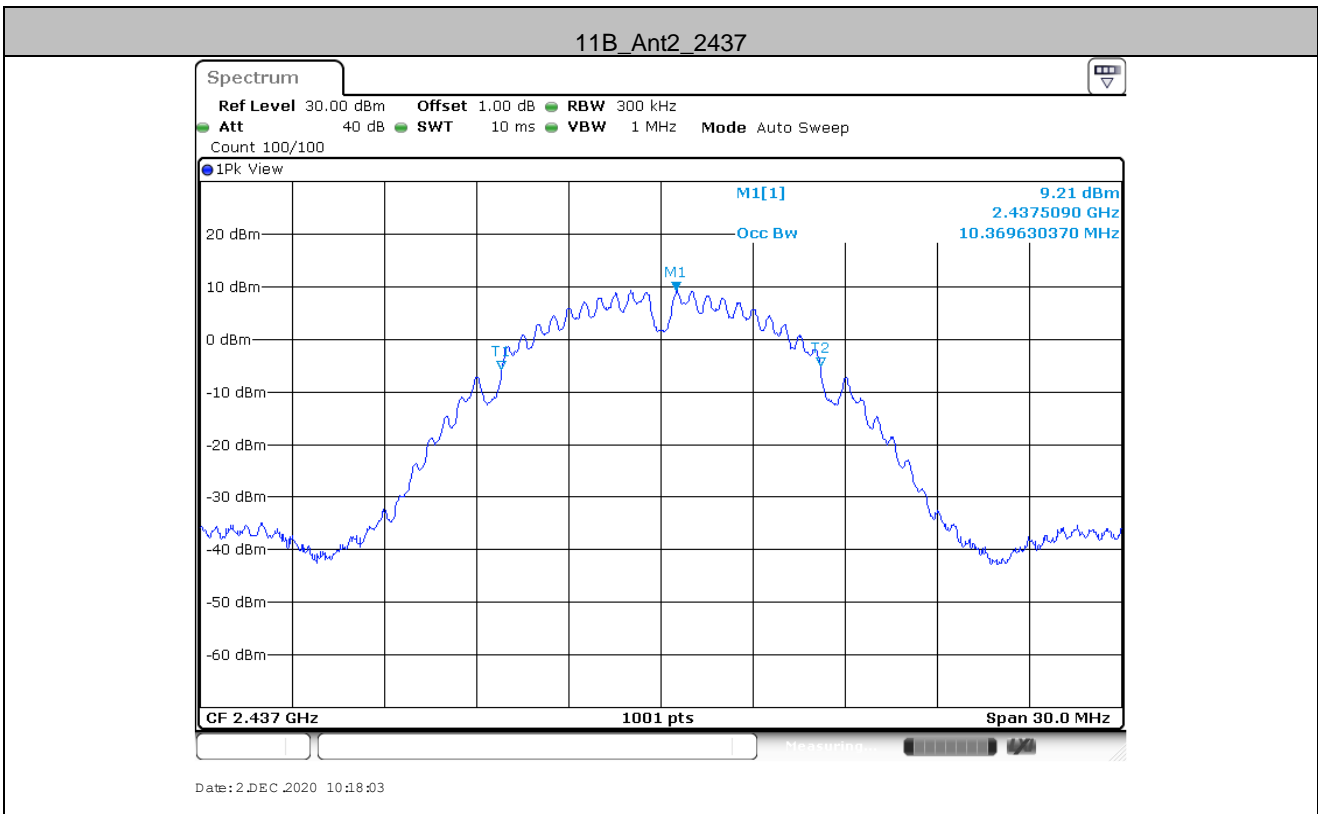
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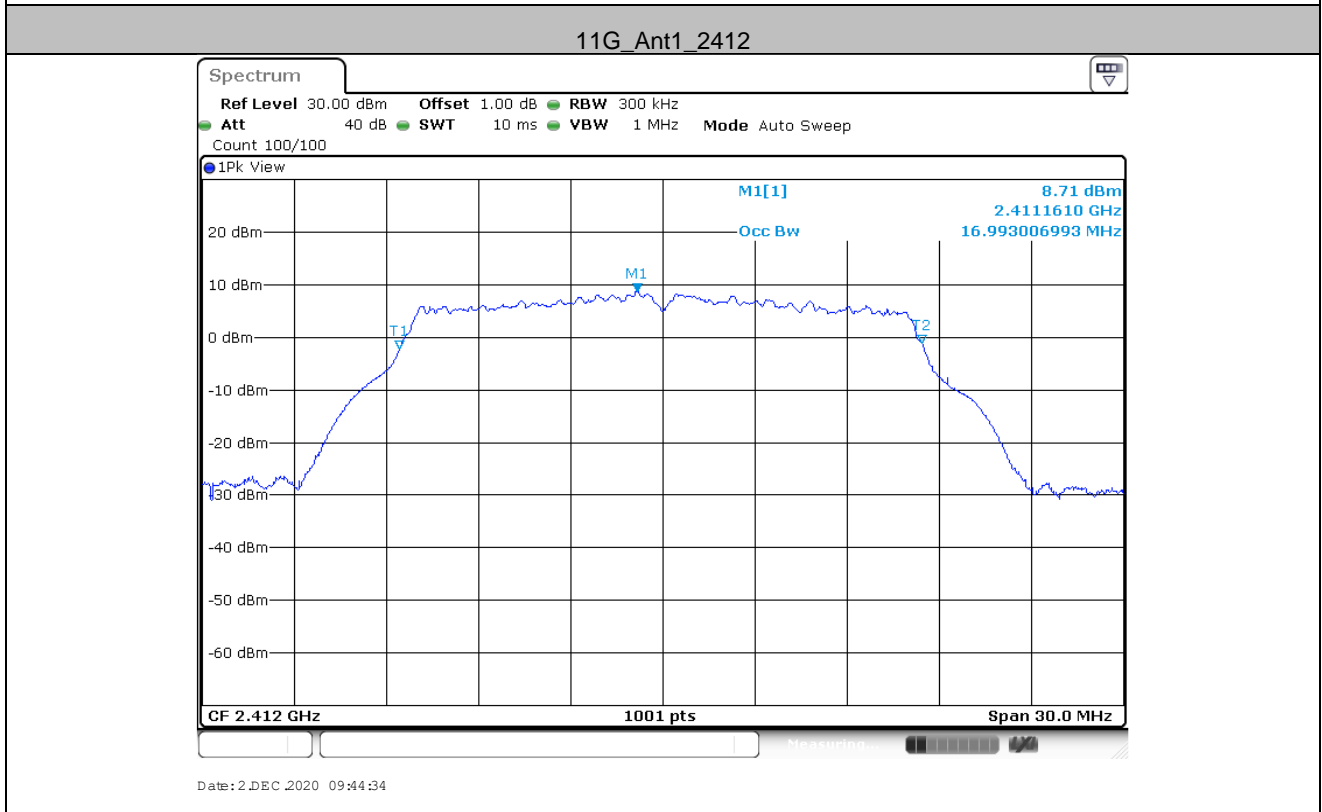
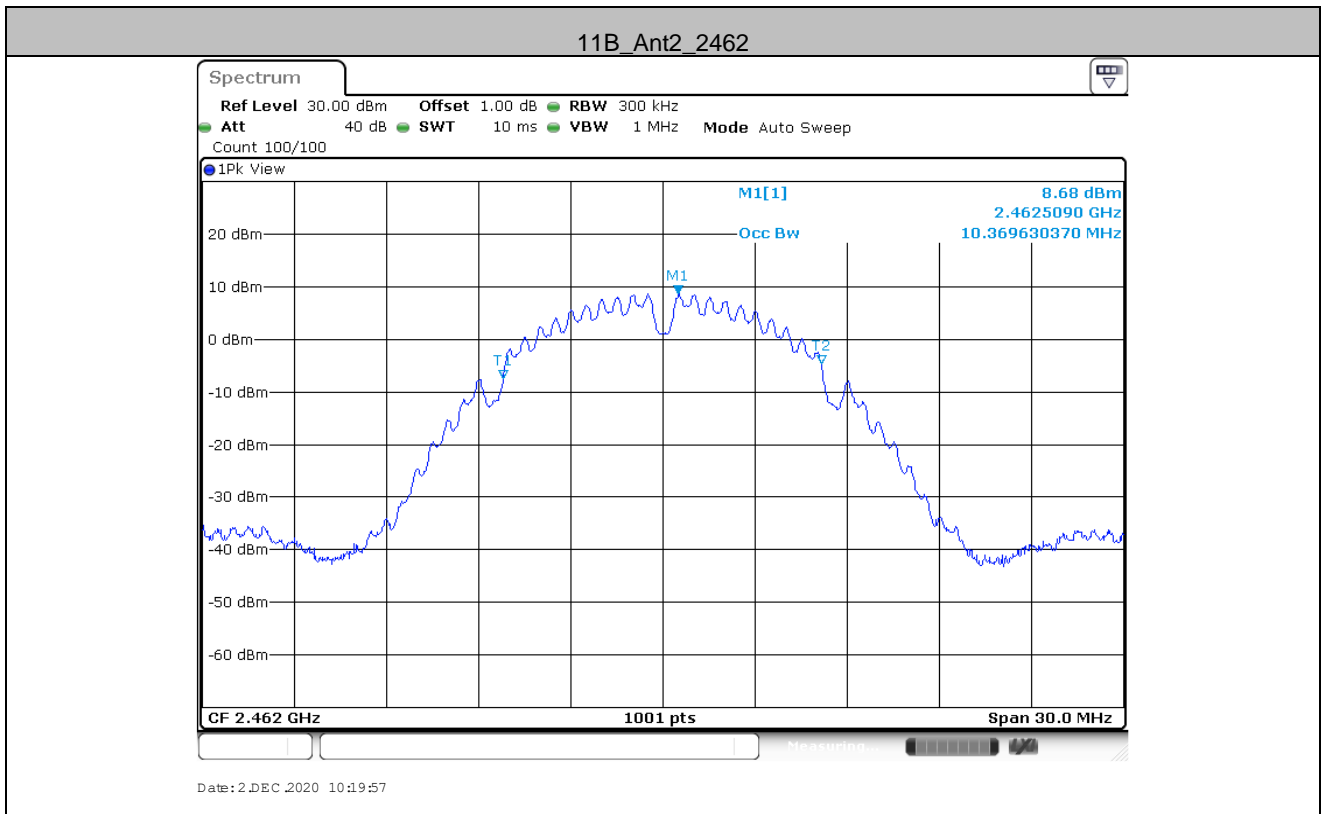
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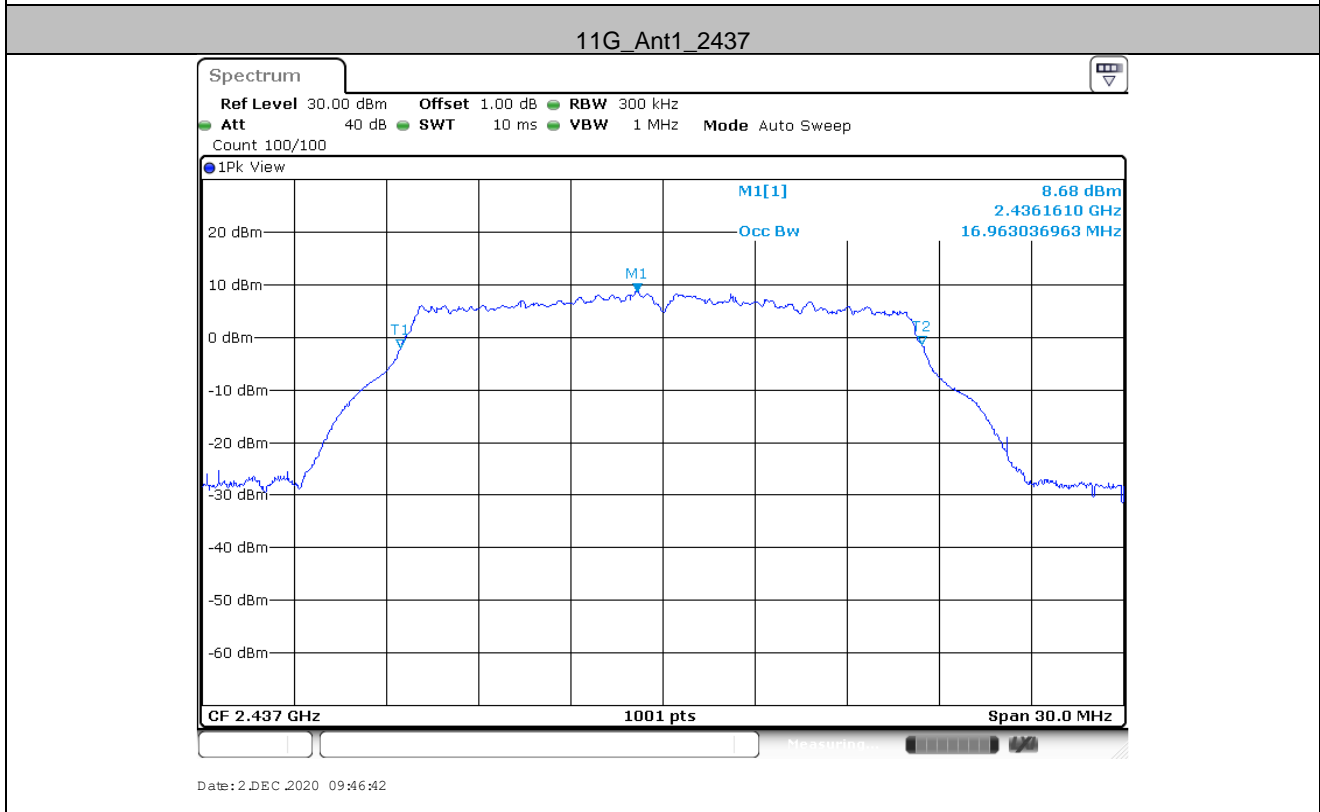
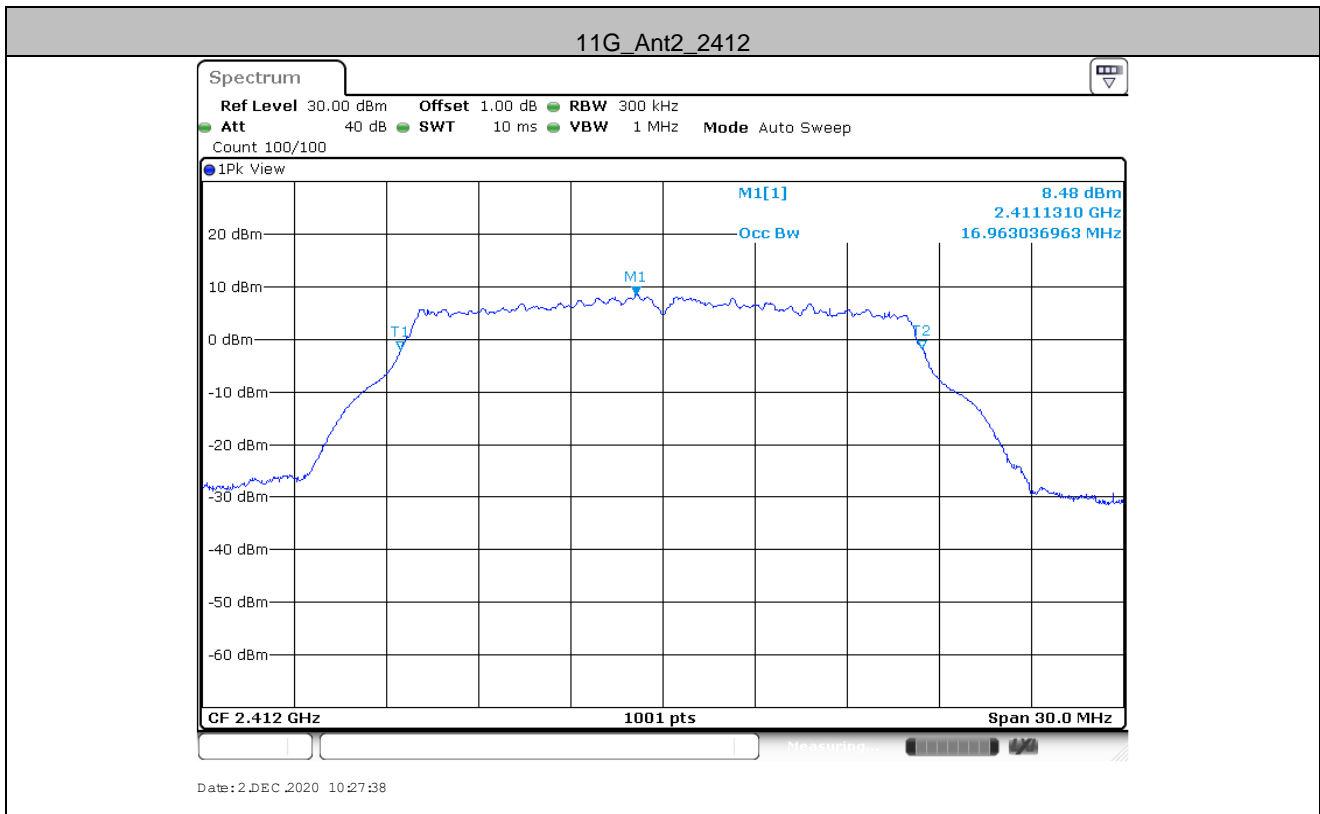
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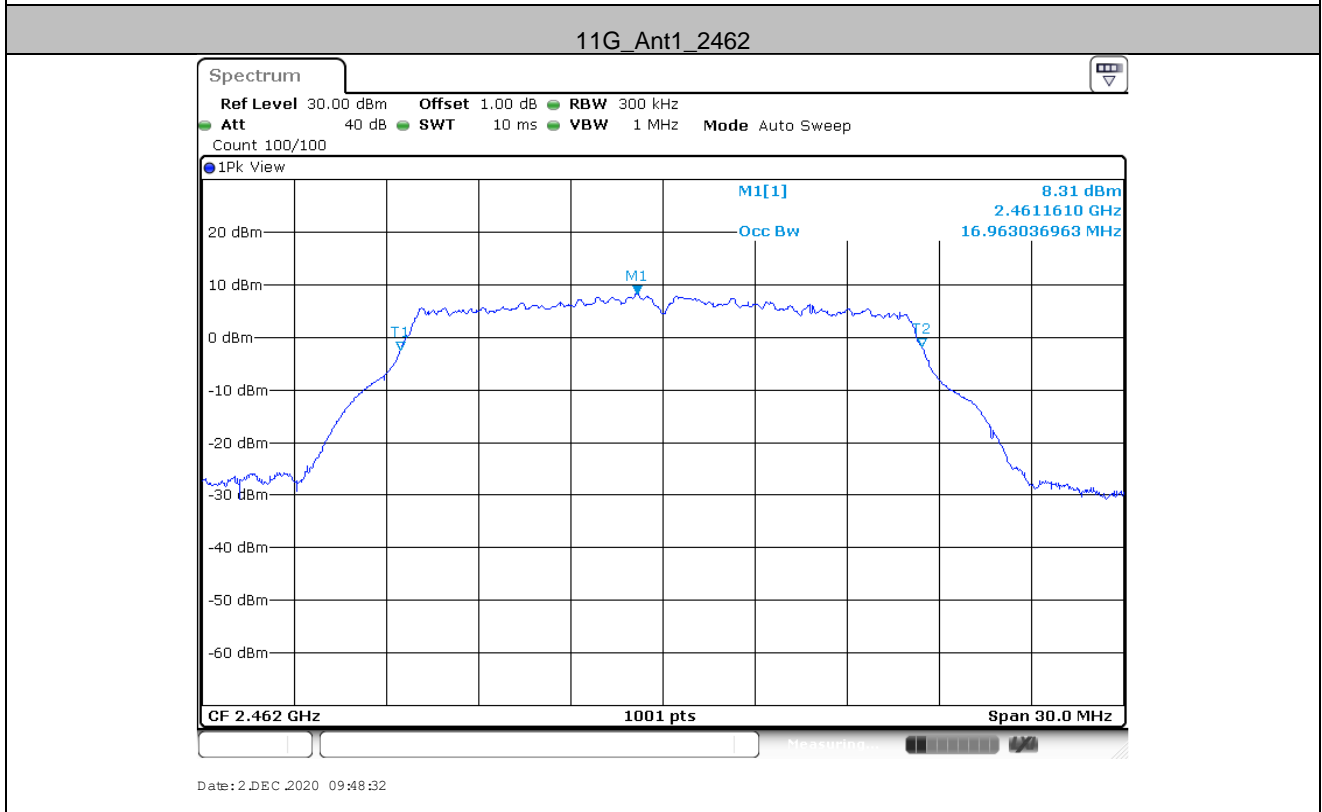
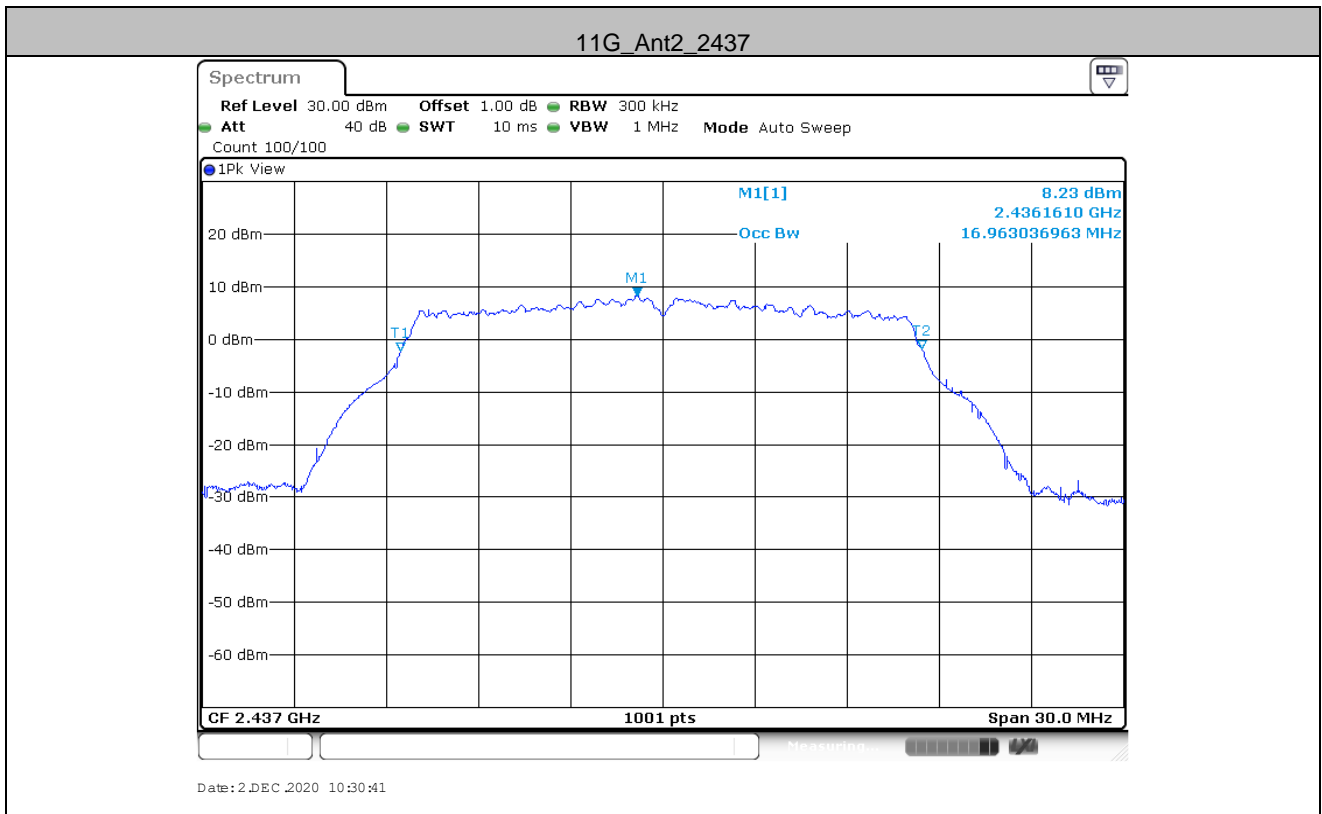
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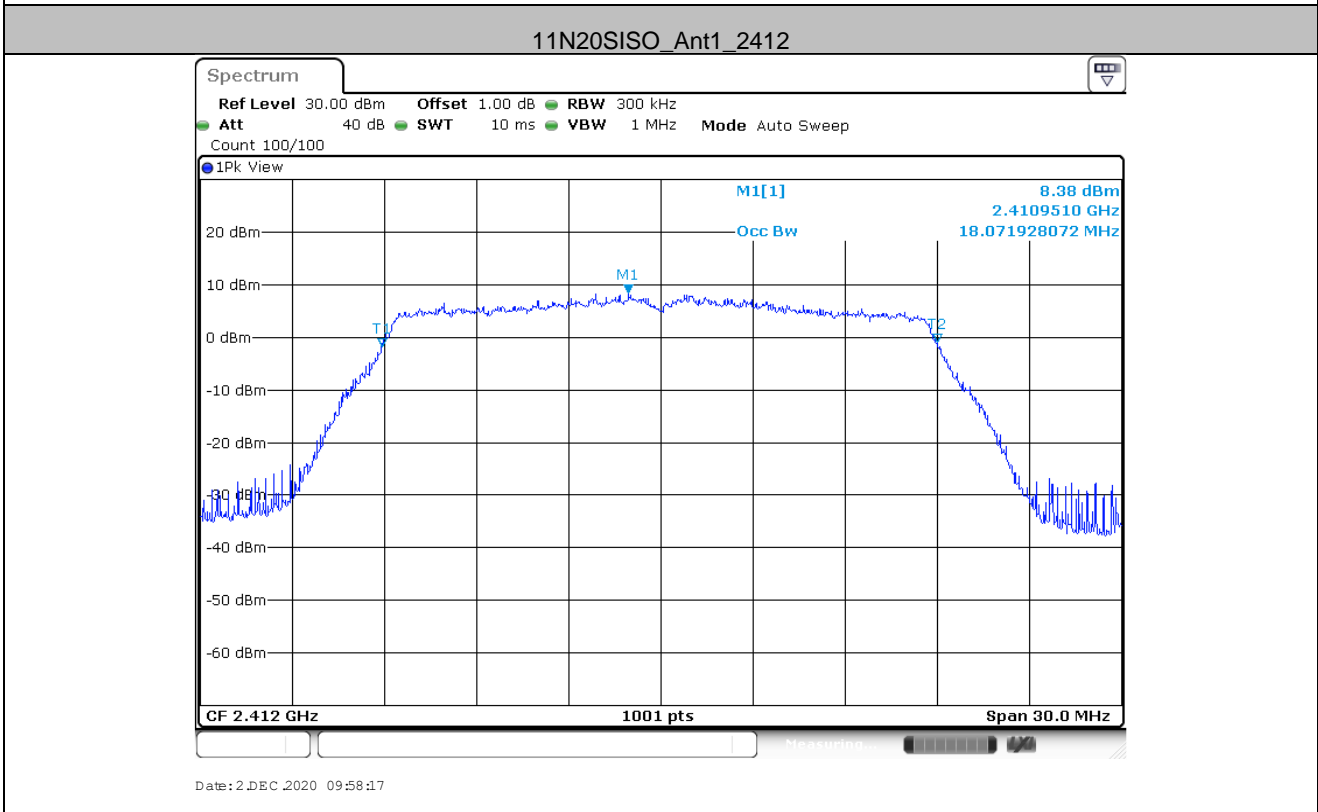
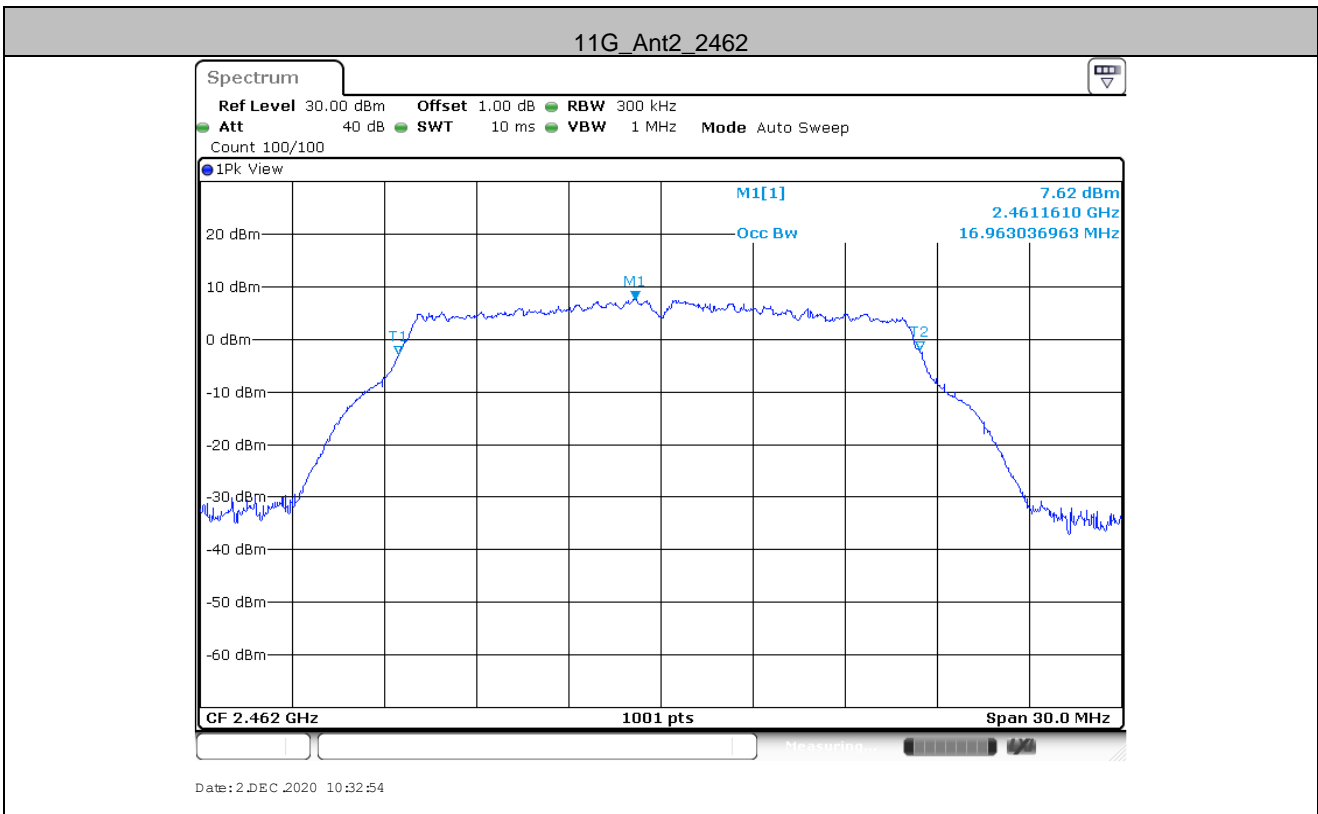
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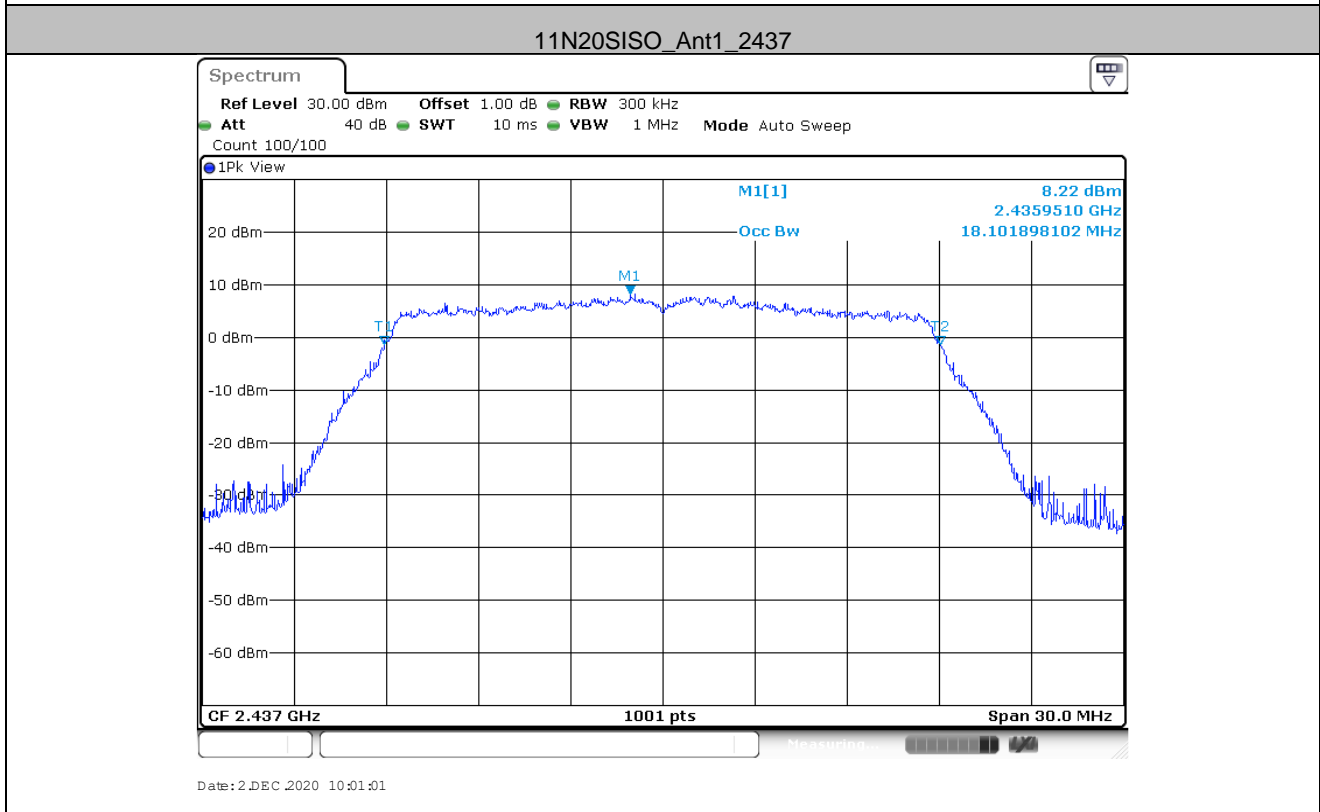
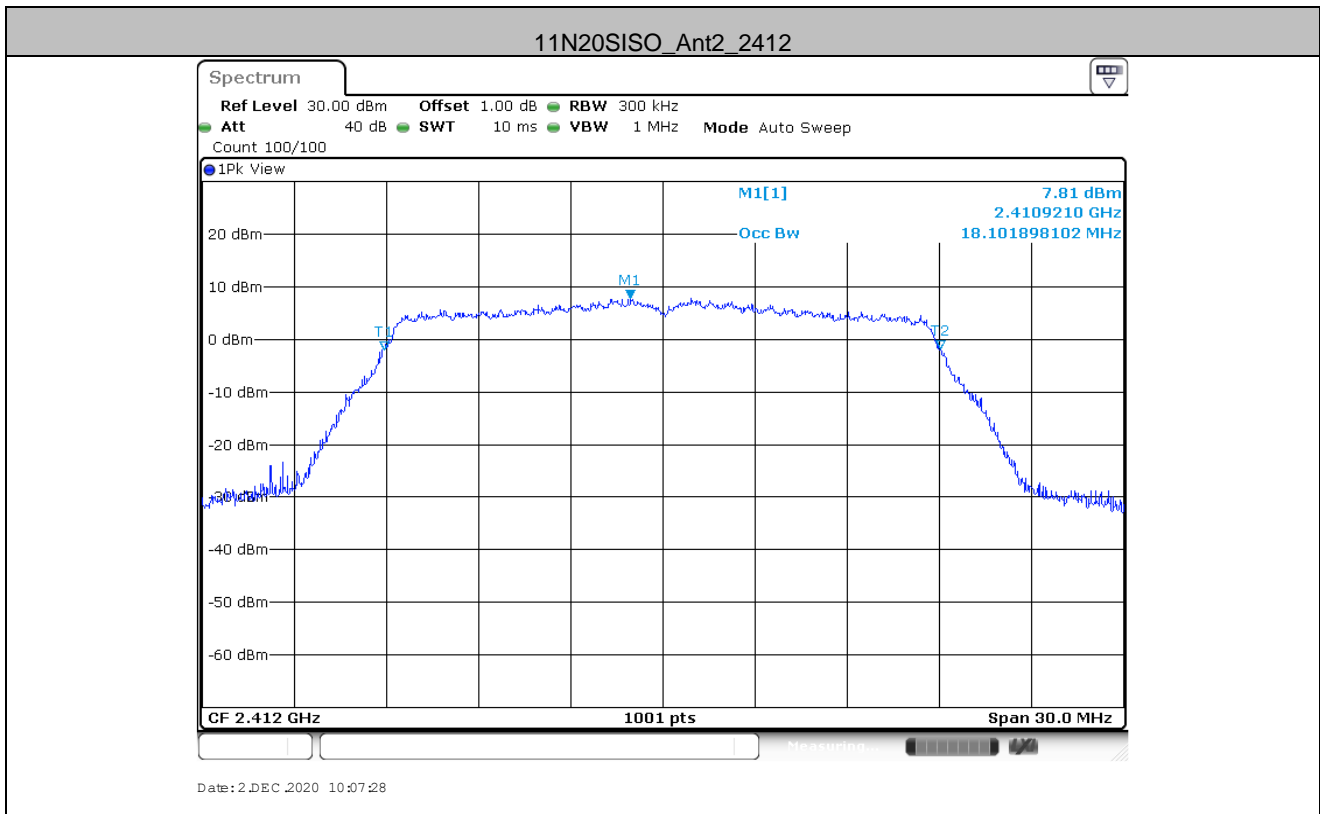




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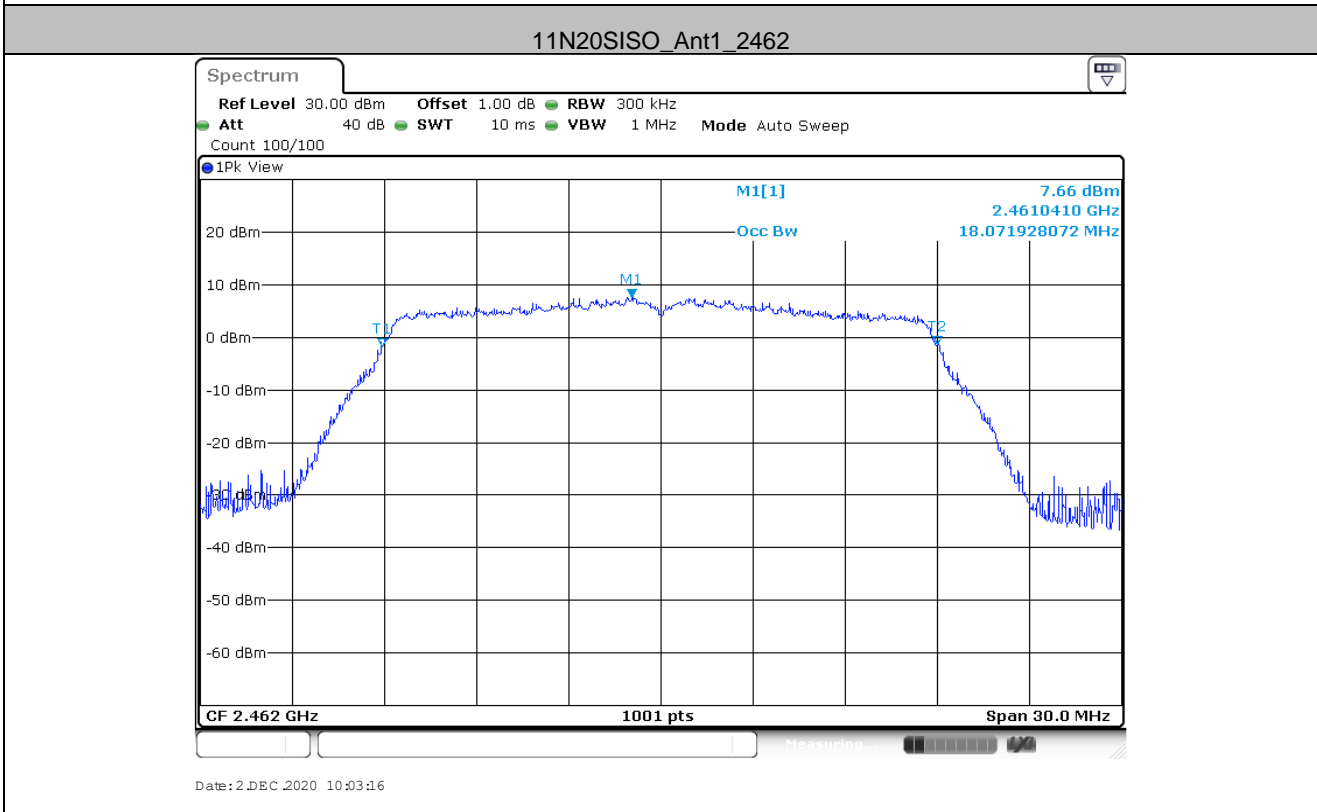
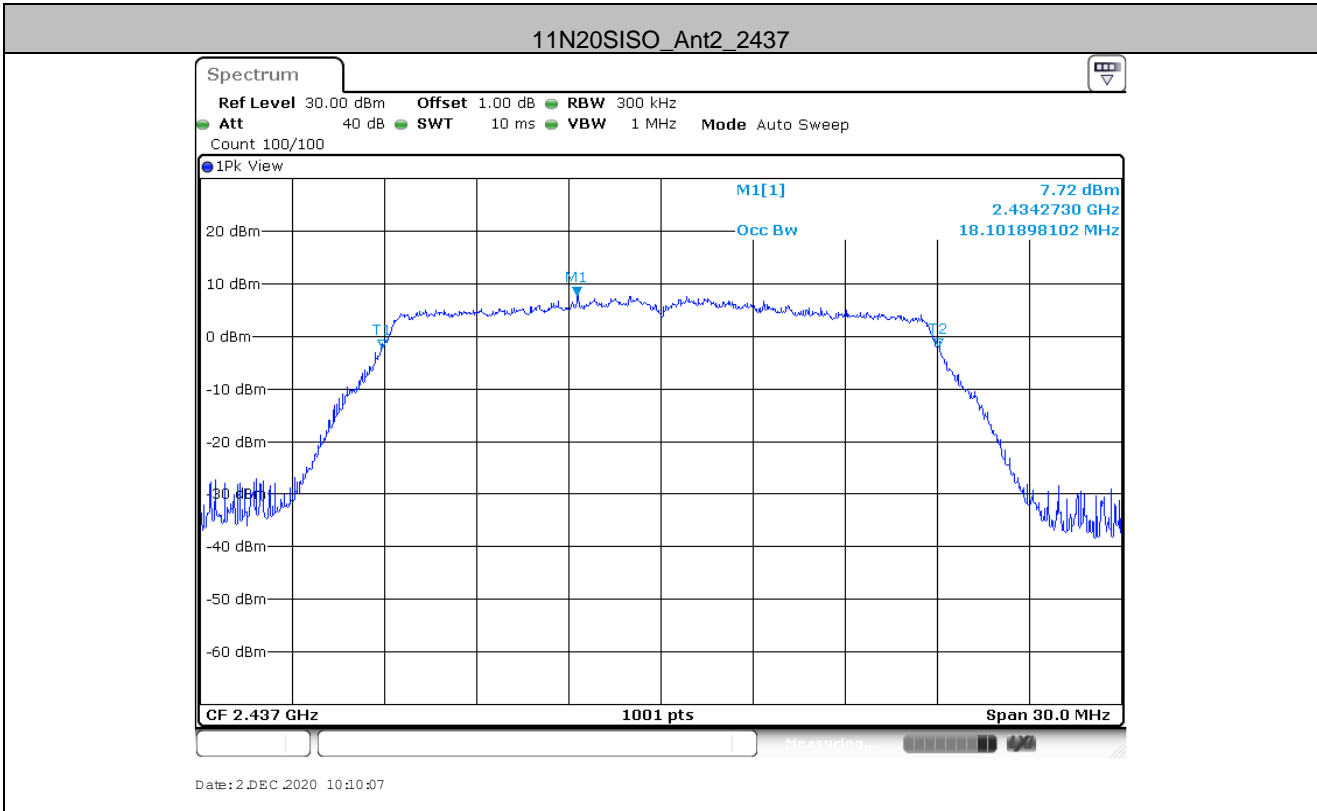
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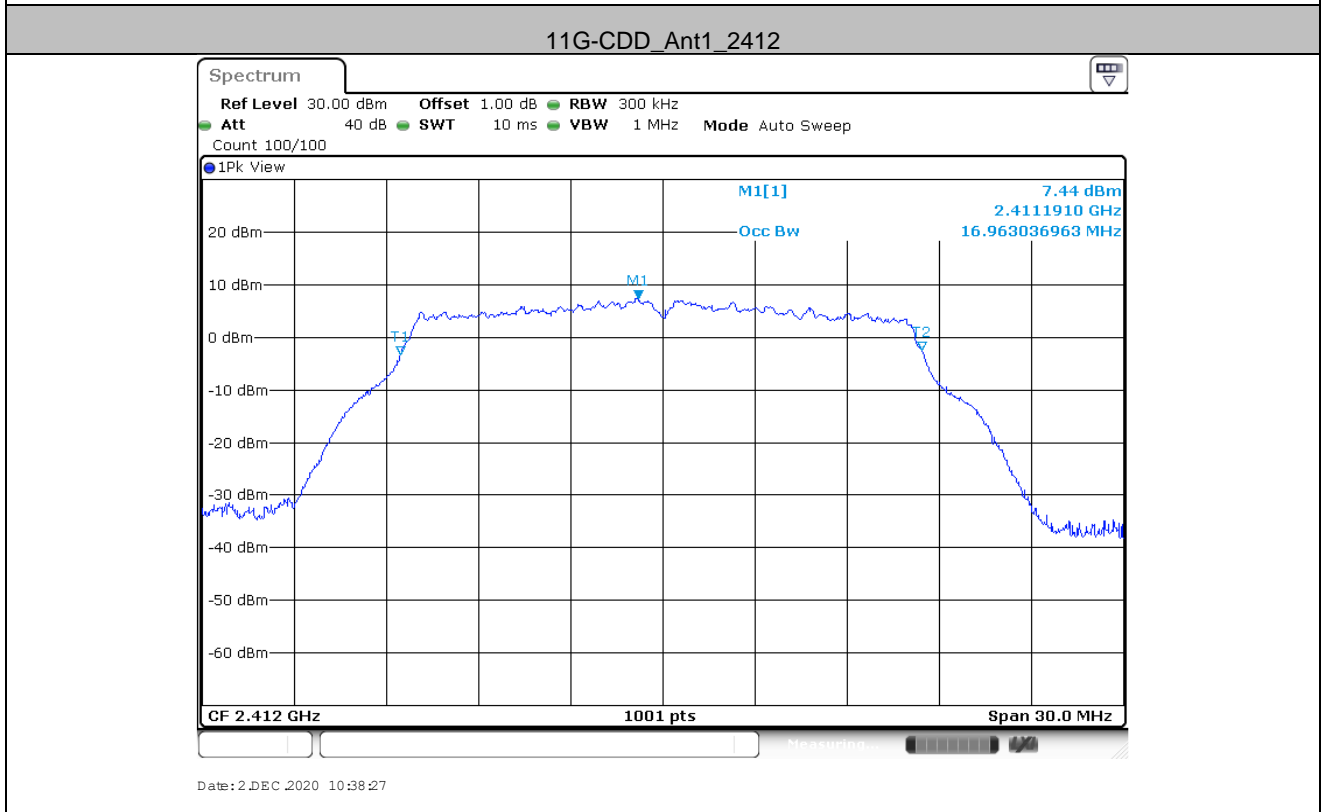
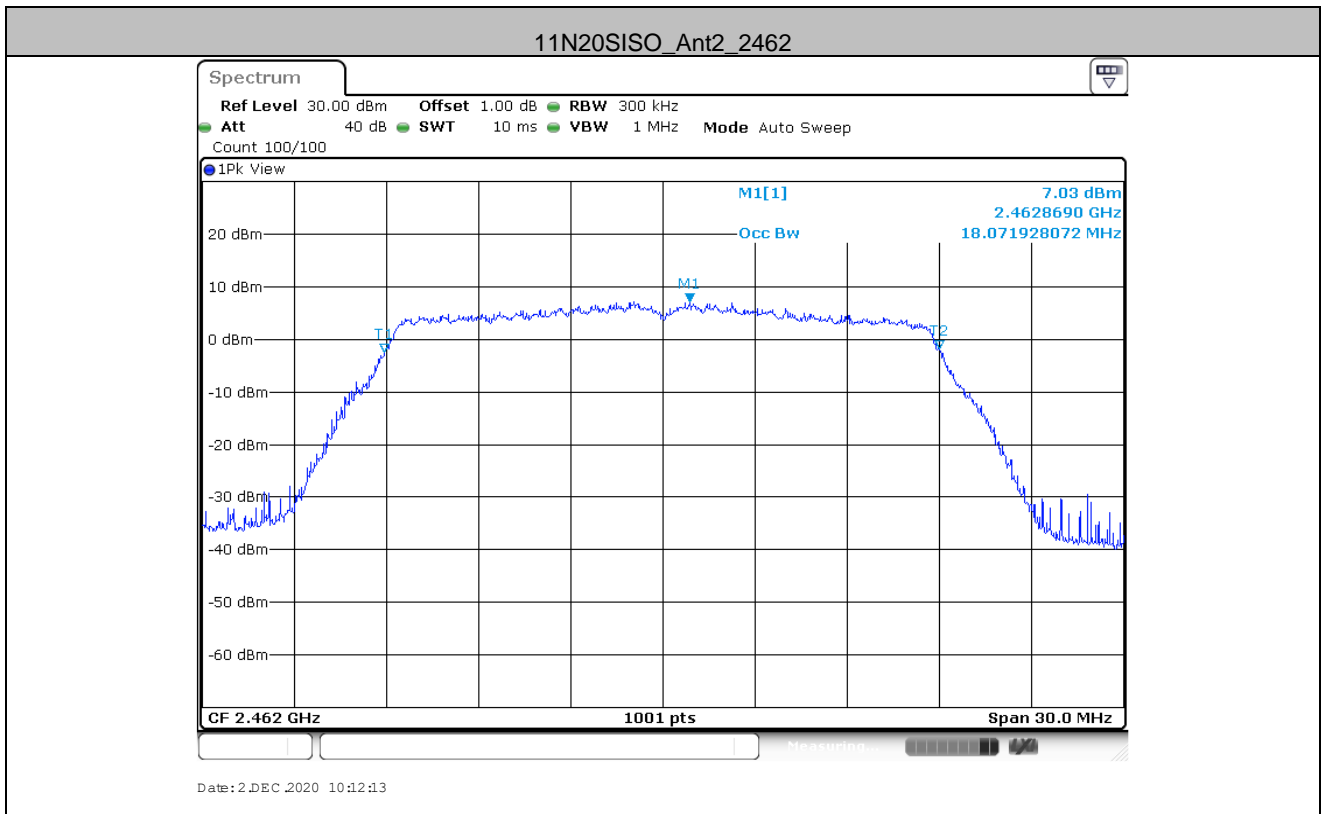
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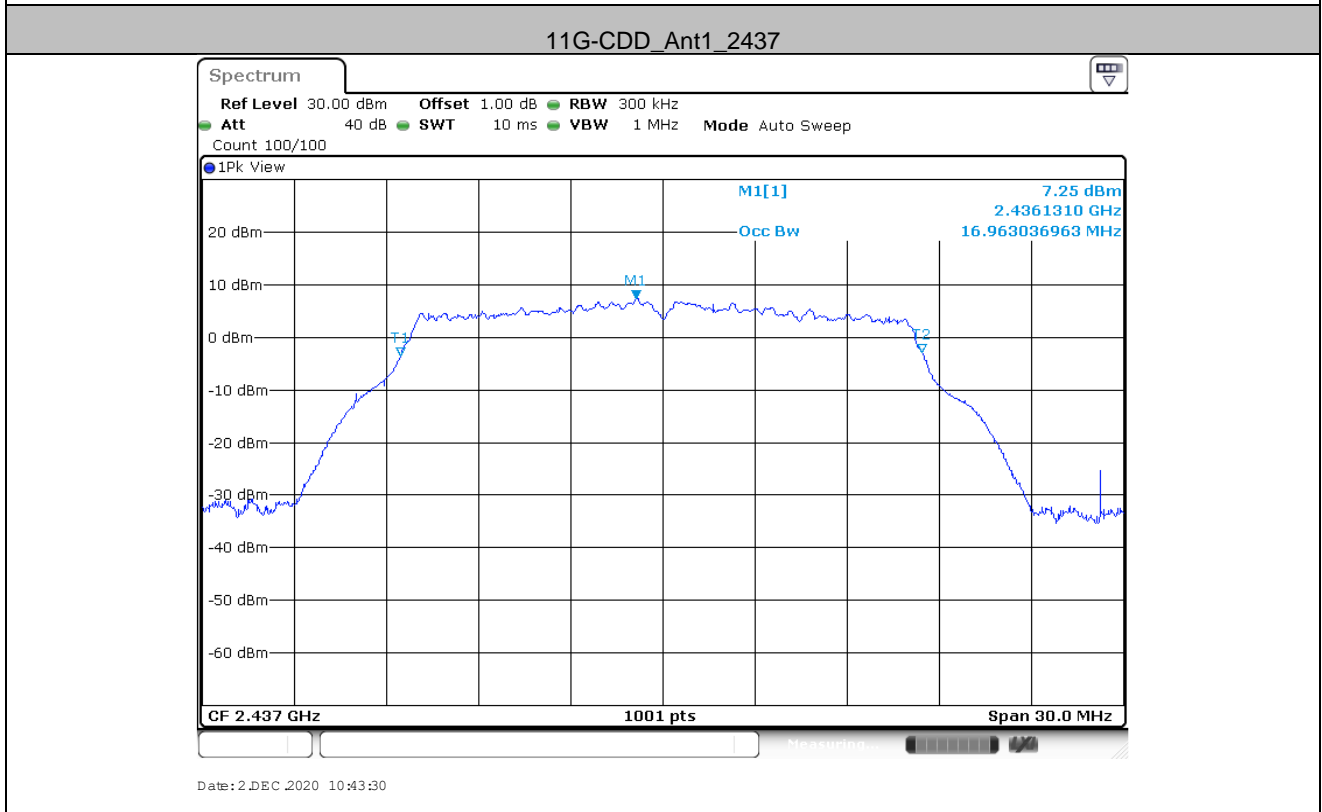
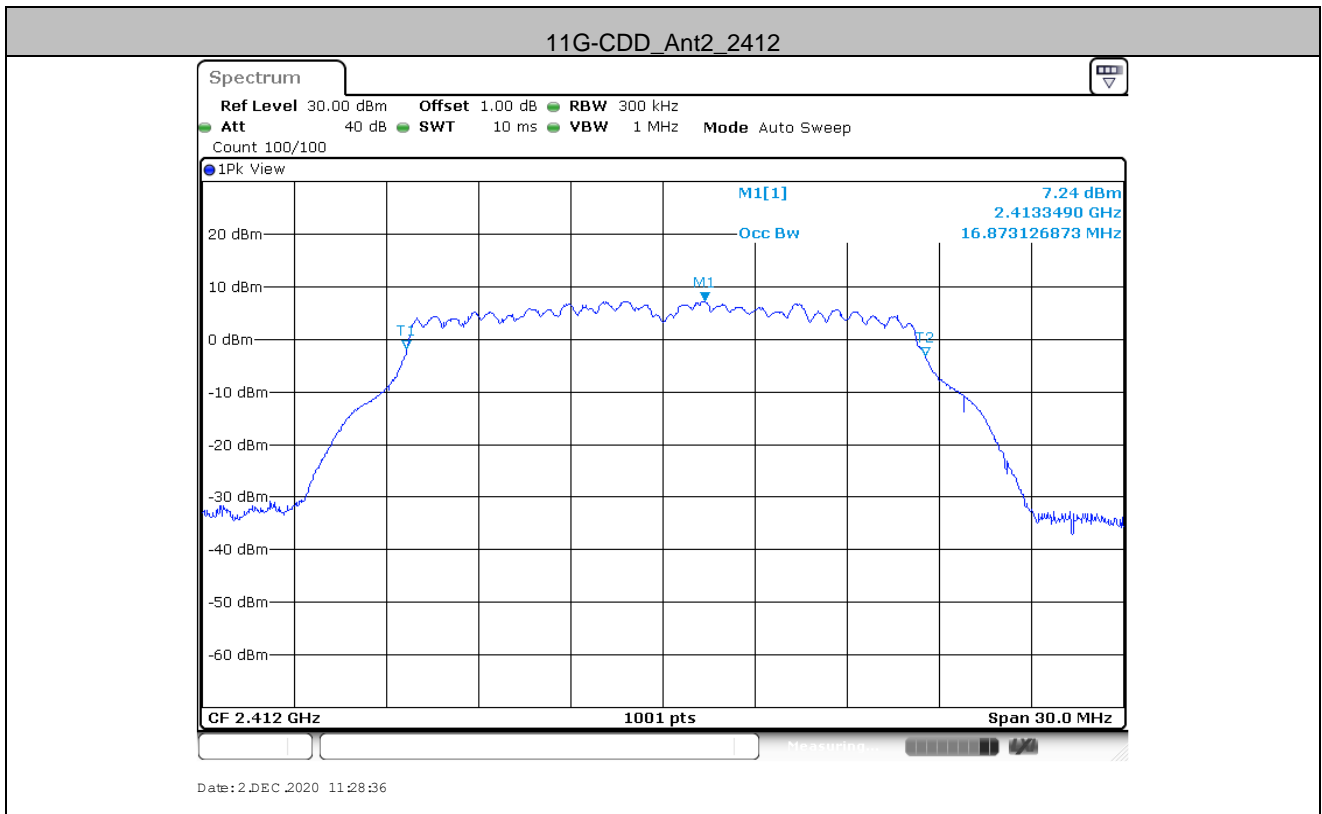
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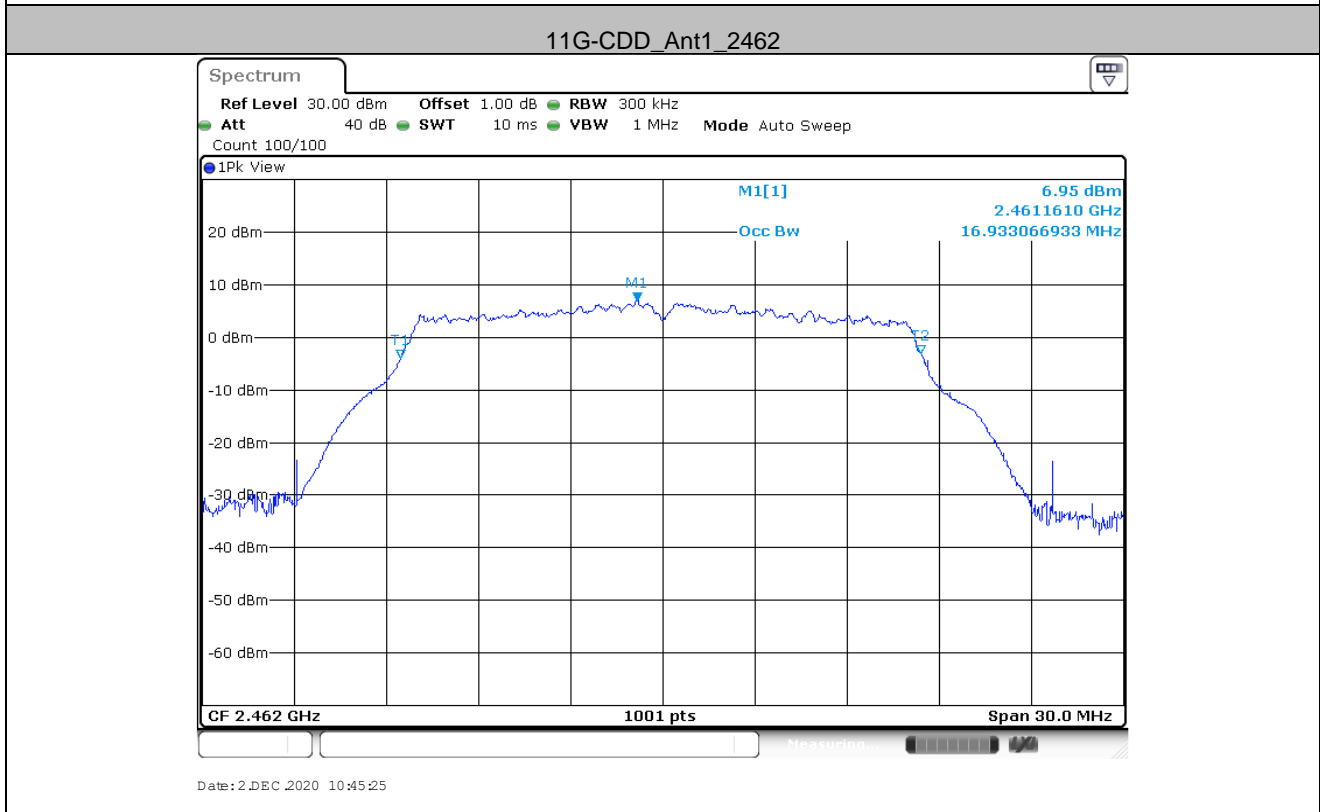
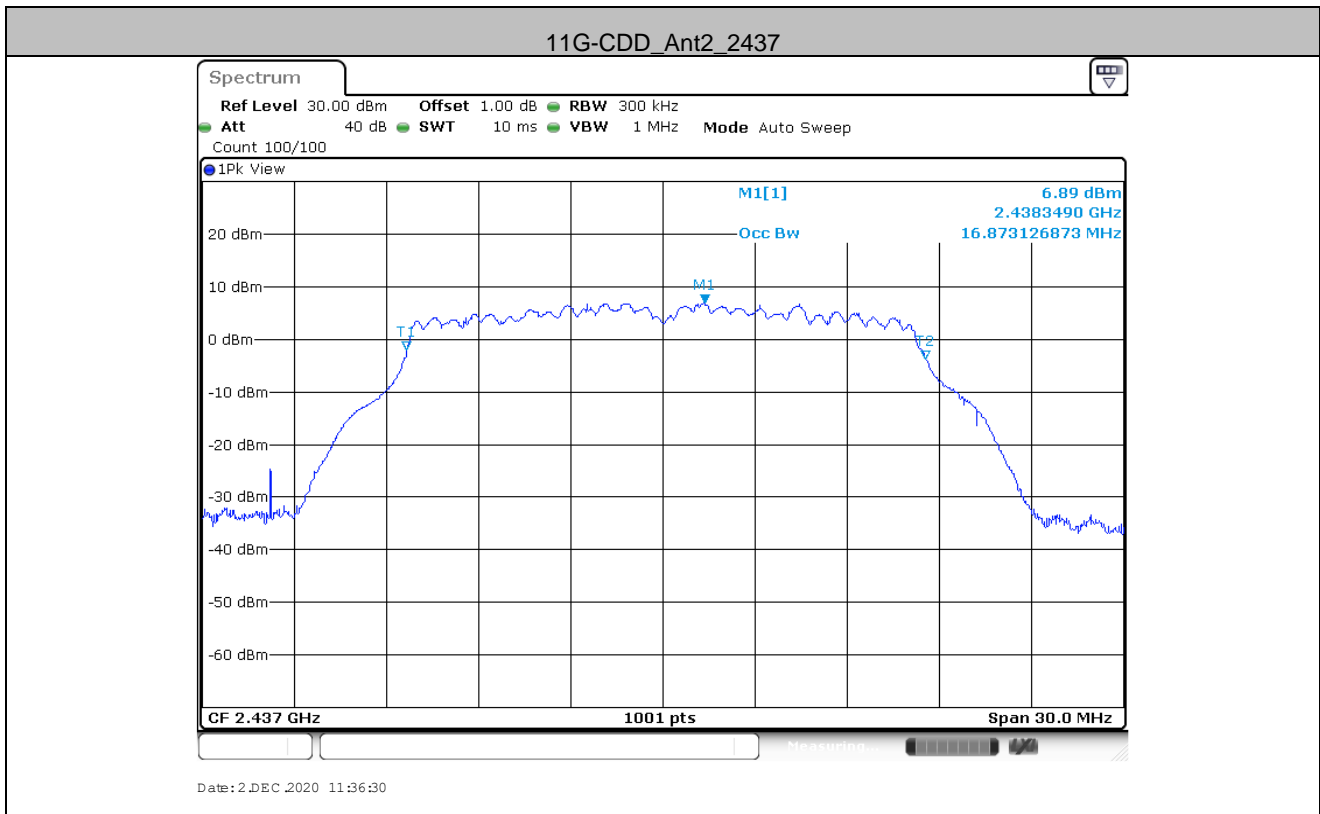
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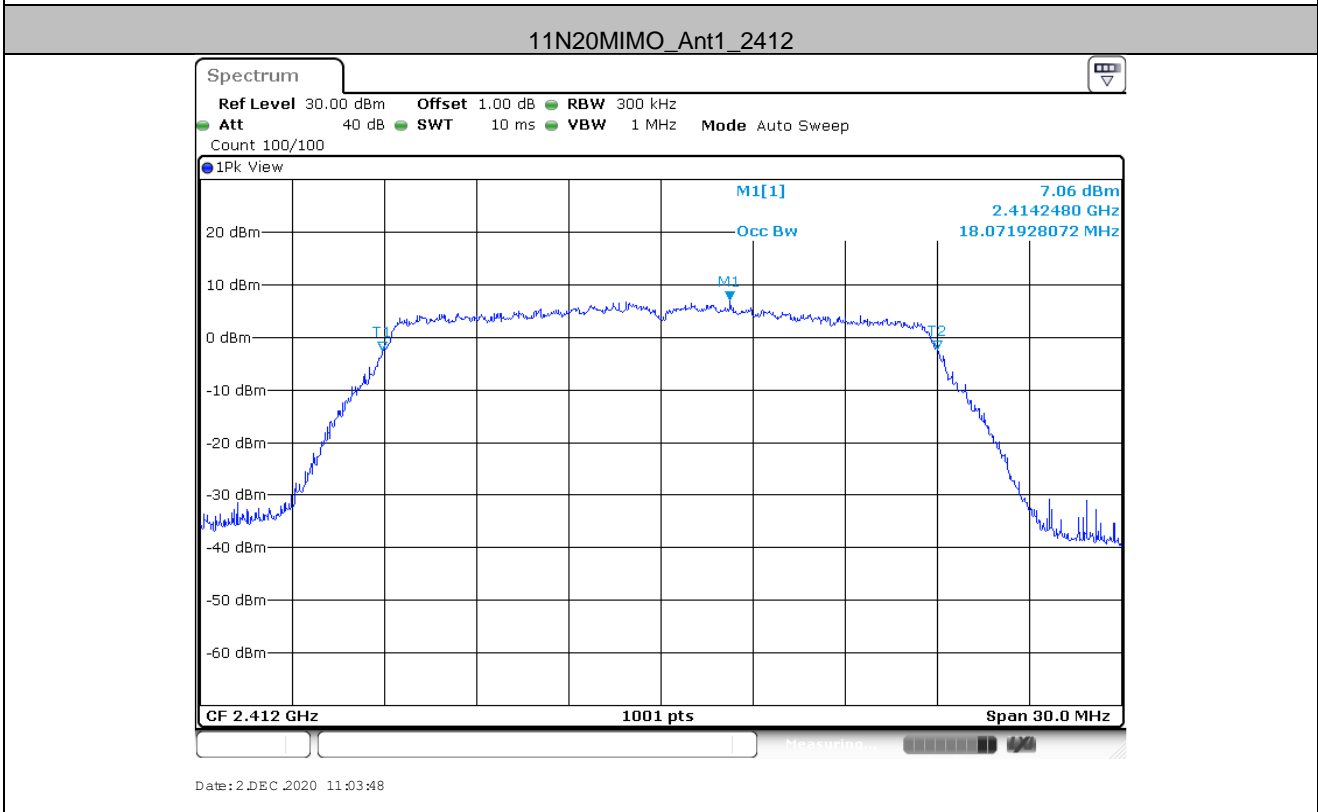
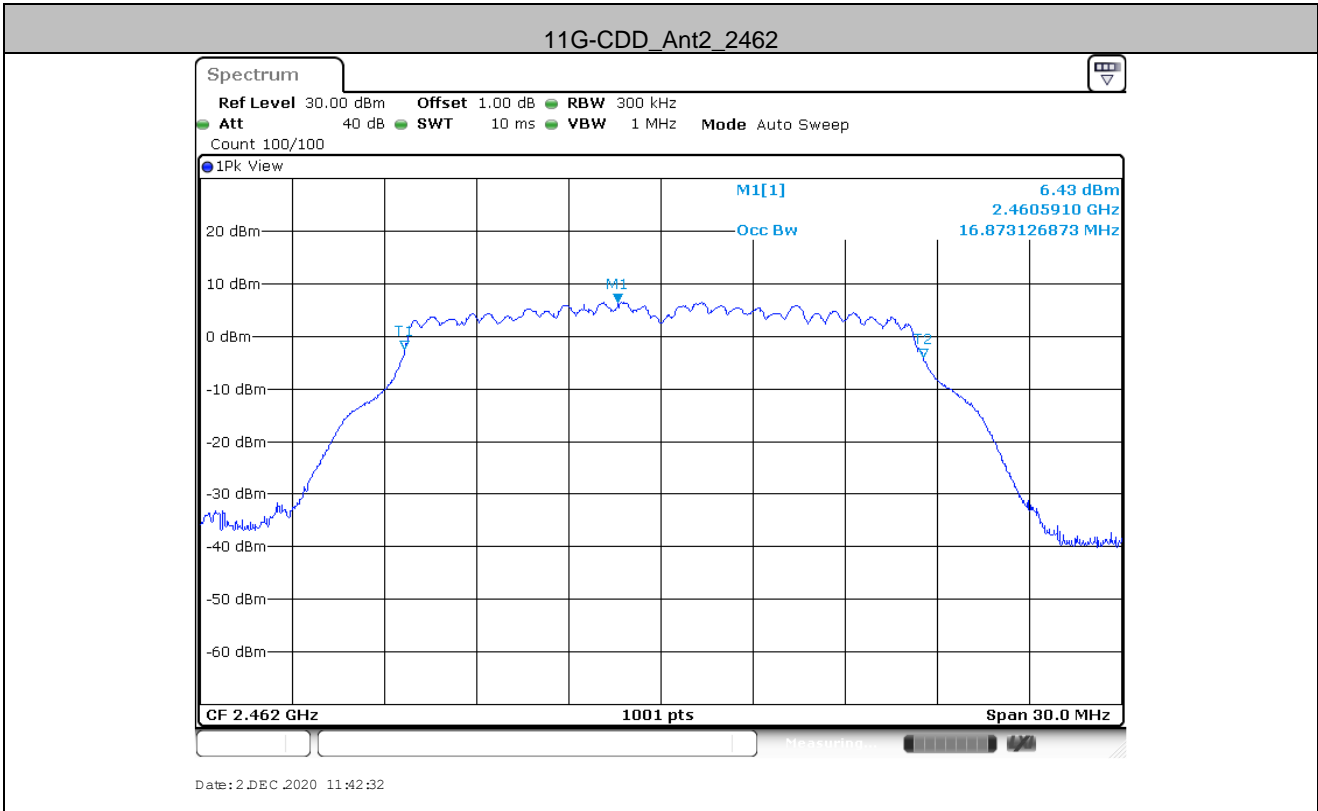
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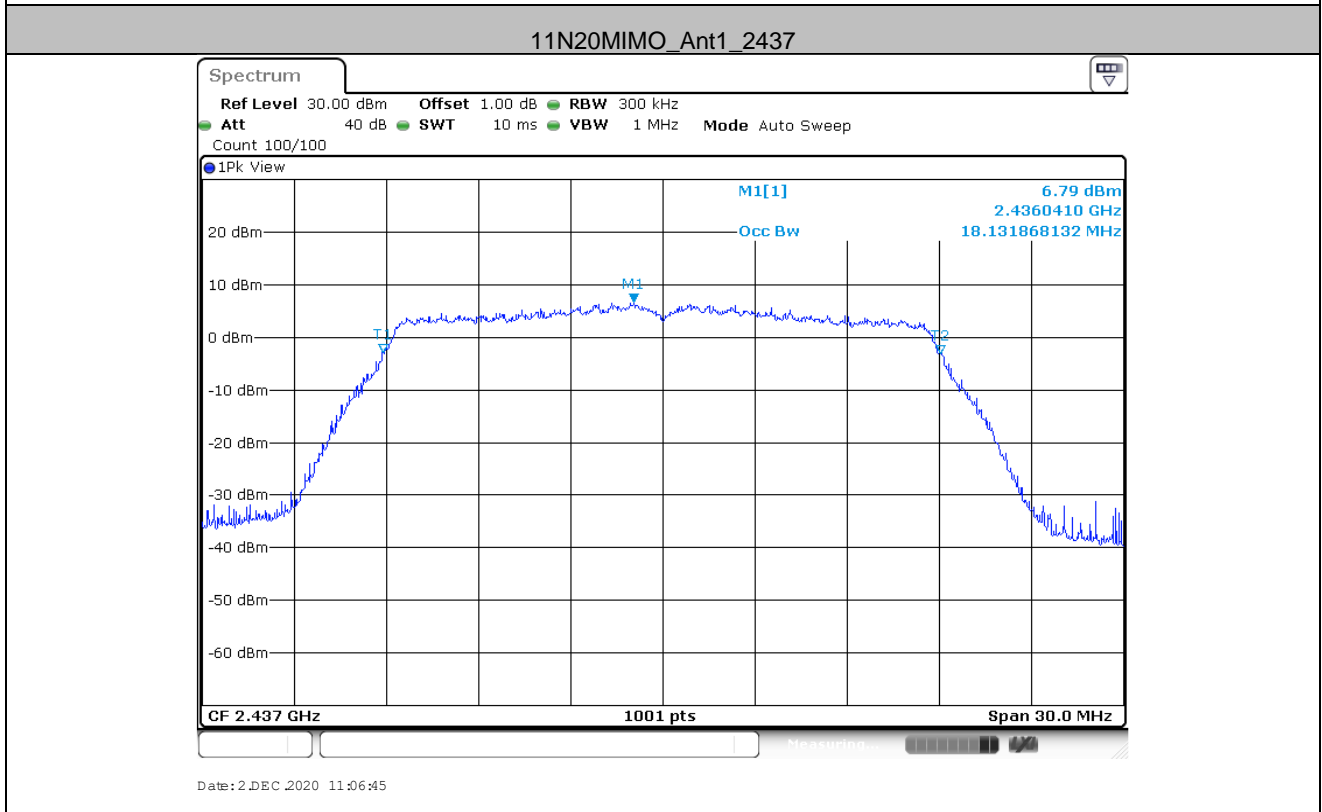
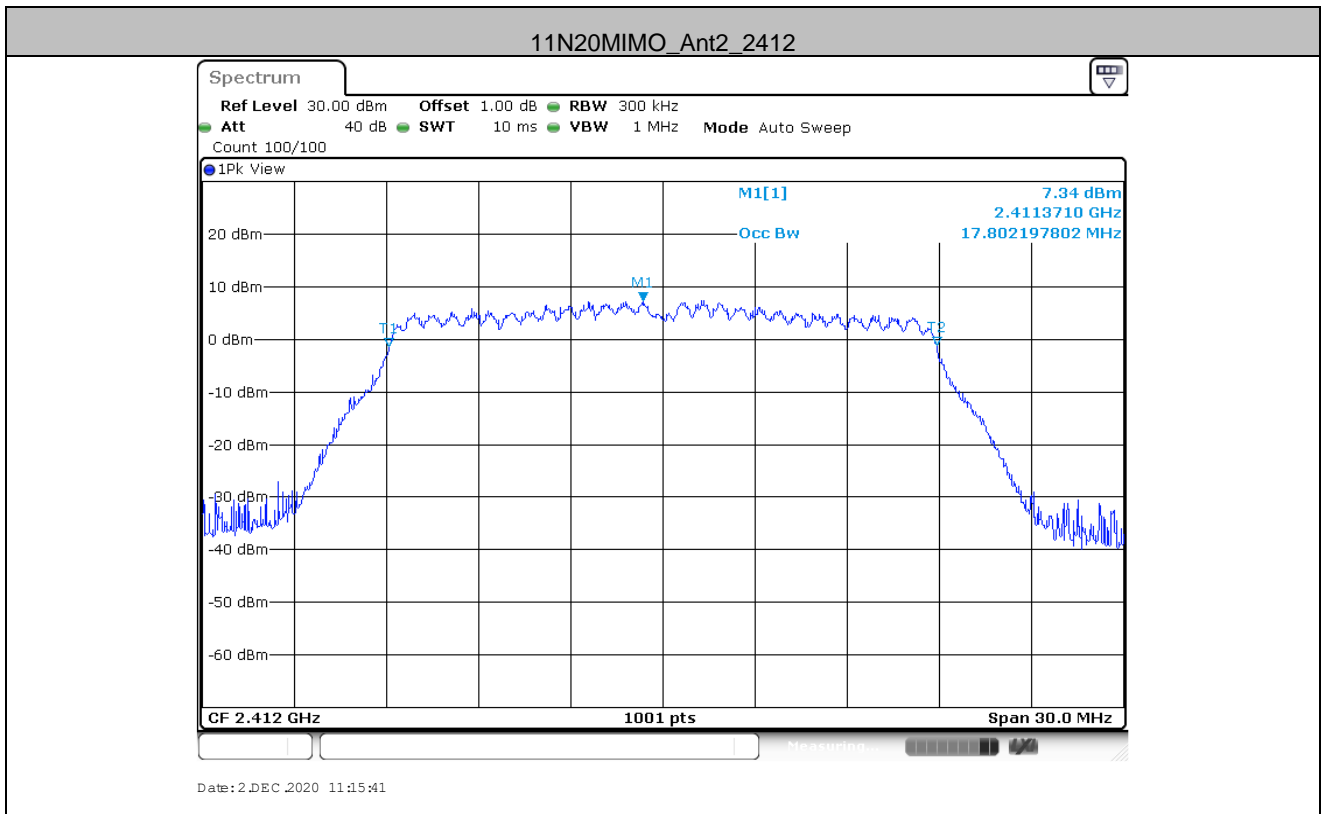


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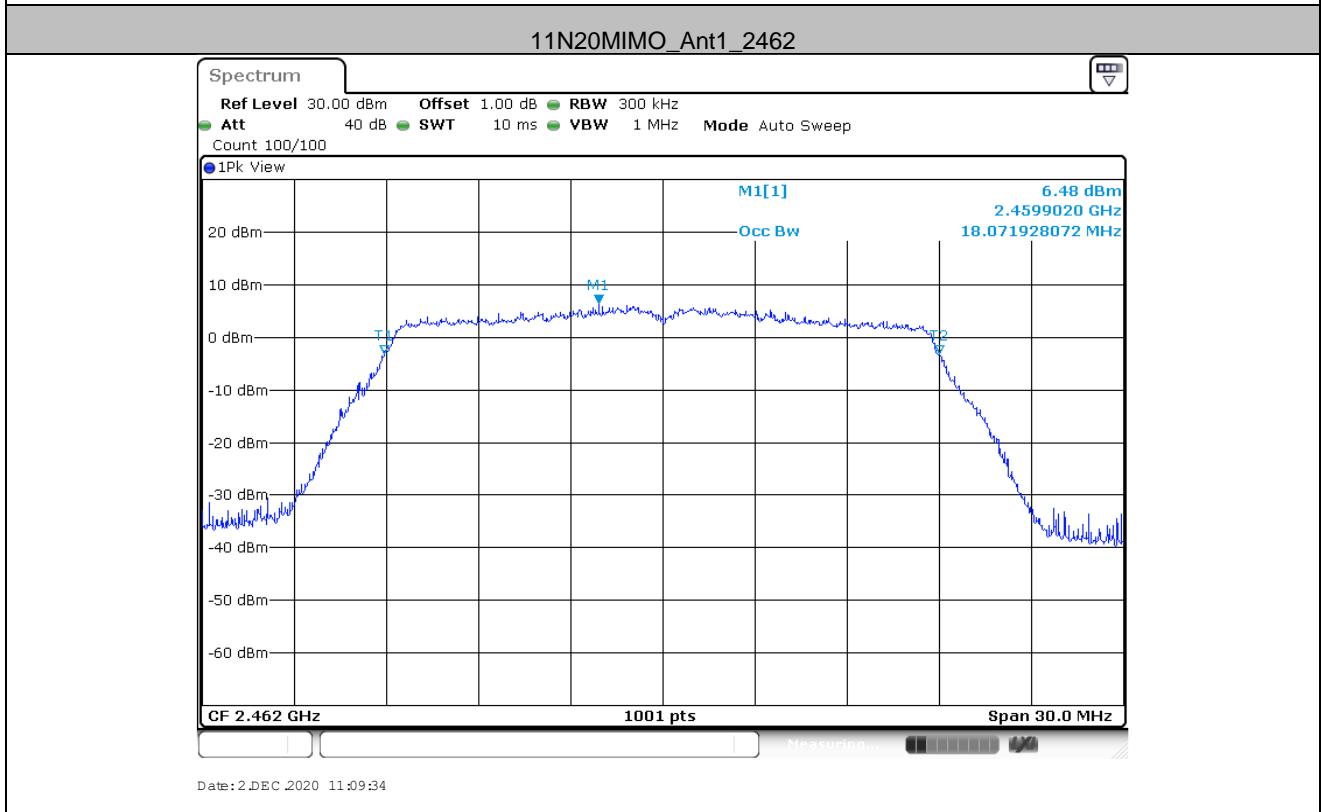
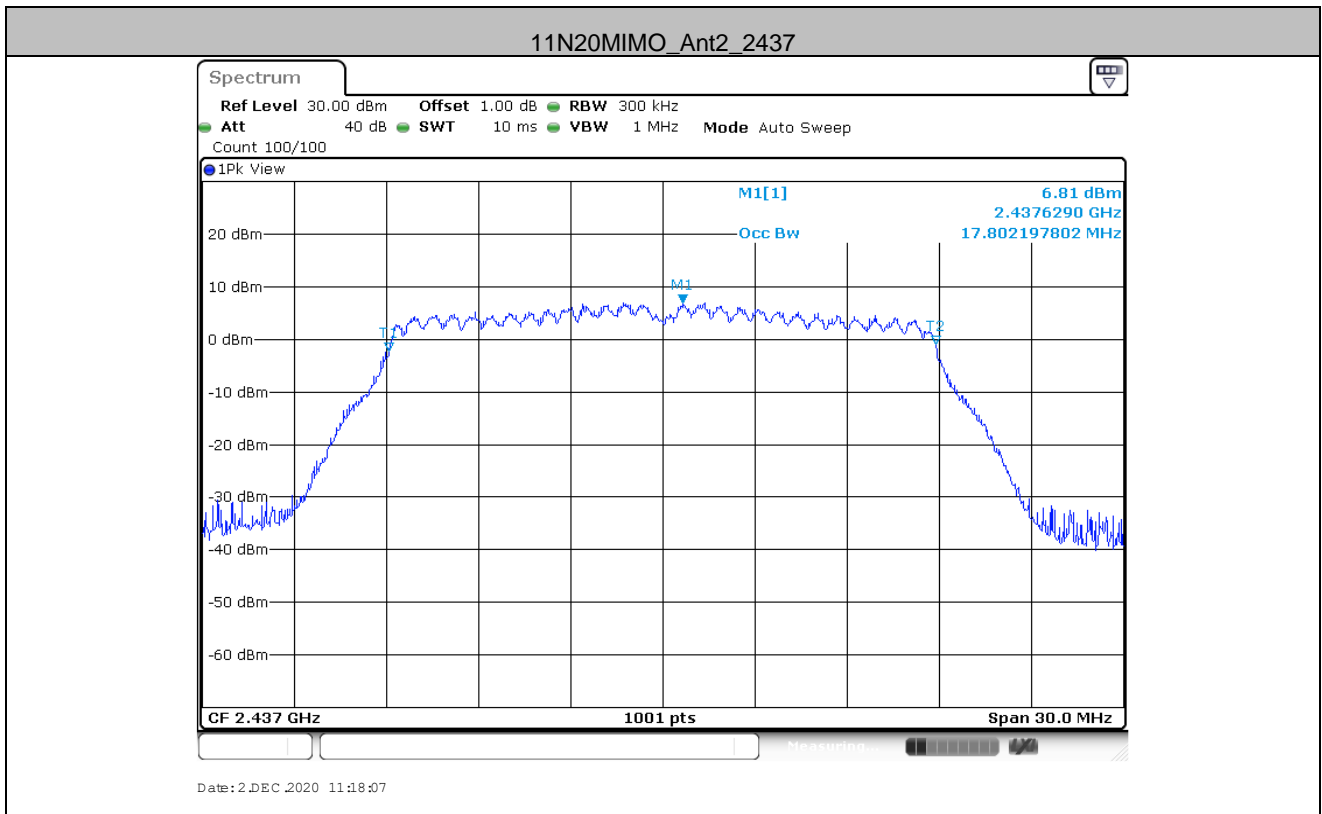
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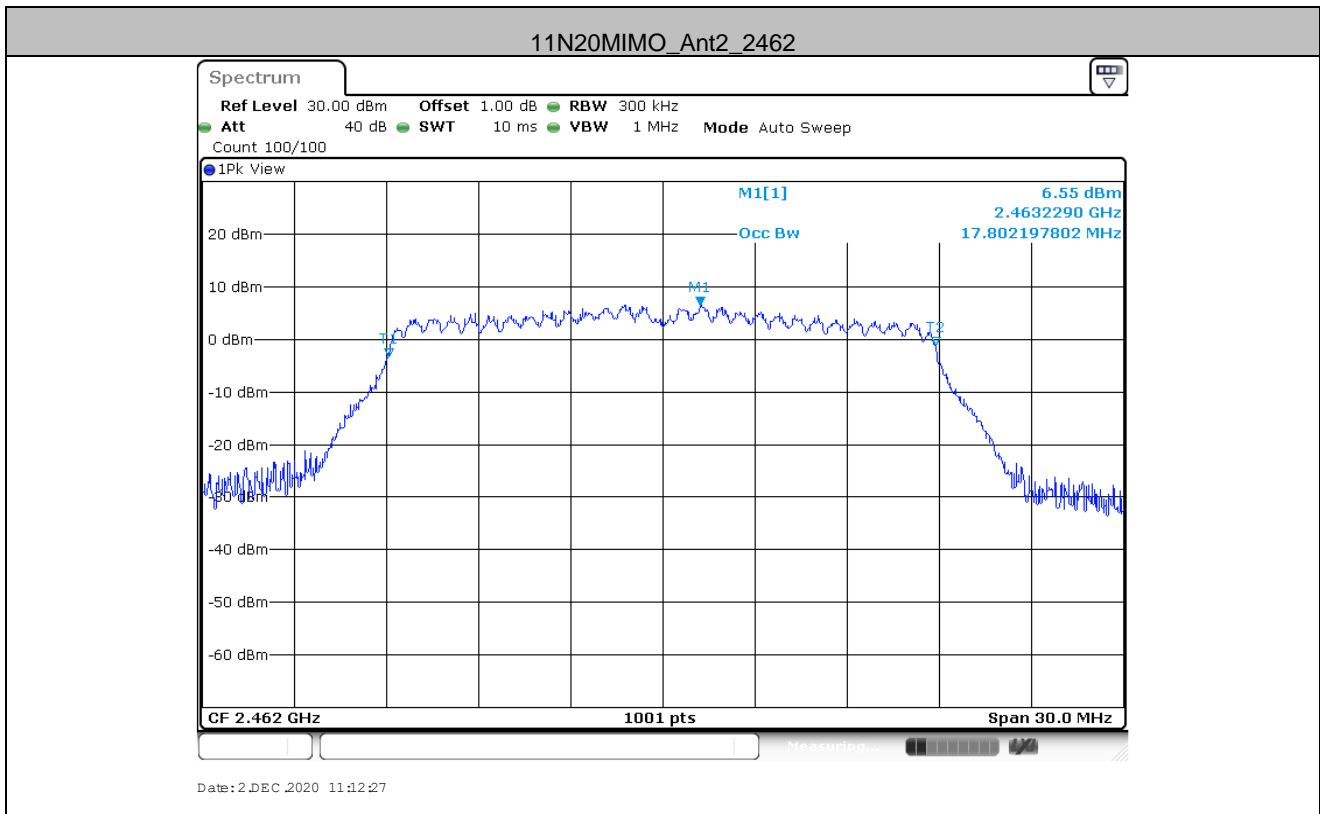
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**Maximum conducted output power**

**Test Result**

TestMode	Antenna	Channel	Power [dBm]	Verdict
11B	Ant1	2412	16.15	PASS
	Ant2	2412	15.75	PASS
	Ant1	2437	16.17	PASS
	Ant2	2437	15.66	PASS
	Ant1	2462	15.68	PASS
	Ant2	2462	15.07	PASS
11G	Ant1	2412	15.84	PASS
	Ant2	2412	15.65	PASS
	Ant1	2437	15.82	PASS
	Ant2	2437	15.52	PASS
	Ant1	2462	15.36	PASS
	Ant2	2462	14.65	PASS
11N20SISO	Ant1	2412	14.98	PASS
	Ant2	2412	14.67	PASS
	Ant1	2437	14.97	PASS
	Ant2	2437	14.45	PASS
	Ant1	2462	14.51	PASS
	Ant2	2462	14.07	PASS
11G-CDD	Ant1	2412	14.24	PASS
	Ant2	2412	14.34	PASS
	total	2412	17.3	PASS
	Ant1	2437	14.10	PASS
	Ant2	2437	13.87	PASS
	total	2437	17.0	PASS
	Ant1	2462	13.62	PASS
	Ant2	2462	13.55	PASS
	total	2462	16.6	PASS
11N20MIMO	Ant1	2412	13.58	PASS



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	Ant2	2412	13.29	PASS
	total	2412	16.4	PASS
	Ant1	2437	13.45	PASS
	Ant2	2437	13.05	PASS
	total	2437	16.3	PASS
	Ant1	2462	13.01	PASS
	Ant2	2462	12.58	PASS
	total	2462	15.8	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	-3.18	<=8	PASS
	Ant2	2412	-3.68	<=8	PASS
	Ant1	2437	-4.51	<=8	PASS
	Ant2	2437	-3.57	<=8	PASS
	Ant1	2462	-4.17	<=8	PASS
	Ant2	2462	-4.39	<=8	PASS
11G	Ant1	2412	-7.69	<=8	PASS
	Ant2	2412	-7.81	<=8	PASS
	Ant1	2437	-7.76	<=8	PASS
	Ant2	2437	-8.12	<=8	PASS
	Ant1	2462	-8.18	<=8	PASS
	Ant2	2462	-8.81	<=8	PASS
11N20SISO	Ant1	2412	-8.57	<=8	PASS
	Ant2	2412	-8.86	<=8	PASS
	Ant1	2437	-8.18	<=8	PASS
	Ant2	2437	-9.15	<=8	PASS
	Ant1	2462	-8.58	<=8	PASS
	Ant2	2462	-9.54	<=8	PASS
11G-CDD	Ant1	2412	-8.9	<=8	PASS
	Ant2	2412	-8.82	<=8	PASS
	total	2412	-5.85	<=8	PASS
	Ant1	2437	-9.12	<=8	PASS
	Ant2	2437	-9.14	<=8	PASS
	total	2437	-6.12	<=8	PASS
	Ant1	2462	-9.43	<=8	PASS
	Ant2	2462	-9.58	<=8	PASS
	total	2462	-6.49	<=8	PASS
11N20MIMO	Ant1	2412	-9.53	<=8	PASS



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	Ant2	2412	-9.15	<=8	PASS
	total	2412	-6.33	<=8	PASS
	Ant1	2437	-9.49	<=8	PASS
	Ant2	2437	-9.89	<=8	PASS
	total	2437	-6.68	<=8	PASS
	Ant1	2462	-10.35	<=8	PASS
	Ant2	2462	-10.84	<=8	PASS
	total	2462	-7.58	<=8	PASS



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