

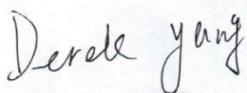
FCC TEST REPORT

Application No.: AR/2020/C0008
Applicant: FIH CO., LTD
Address of Applicant: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer: FIH CO., LTD
Address of Manufacturer: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
EUT Description: WCDMA/LTE Mobile Phone
Model No.: EA1002, EC1002
Trade Mark: FIH
FCC ID: RYQEC1002
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/18
Date of Test: 2020/12/18 to 2021/1/8
Date of Issue: 2021/4/29

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang
Wireless Laboratory Manager

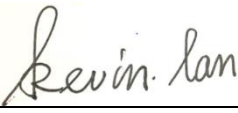


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/3/8		Original
02		2021/4/29	Kevin.Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

This report supersedes our previous report AR/2020/C000804, issued on 2021-03-08, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		(Kevin.Lan) /Engineer
Checked By		(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

Remark:

According to the declaration letter from manufacturer, for EC1002 is all test, and for EA1002 shares the same test data of EC1002 in this report.

All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Details of Client

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Manufacturer:	FIH CO., LTD
Address of Manufacturer	No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

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
Test Engineer	Dee Zheng, Mike Hu

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
Test Engineer	Ben Huang, Leah Chen



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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.

• **FCC –Designation Number: CN1271**



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3.4 General Description of EUT

EUT Description:	WCDMA/LTE Mobile Phone
Model No.:	EA1002, EC1002
Trade Mark:	FIH
Hardware Version:	HW 3.0
Software Version:	EA1002_01N0_1_180, EC1002_00N0_1_180
IEEE 802.11 WLAN Mode Supported	☒ 802.11B (20 MHz channel bandwidth), ☒ 802.11G (20 MHz channel bandwidth), ☒ 802.11N (20 MHz channel bandwidth), ☒ 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: $-f_c$ = "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:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11B/G/N), ☐ MIMO (for 802.11N): 2 Tx & 2 Rx, ☐ Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	3.32dBi

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

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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. 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.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.32dBi.	



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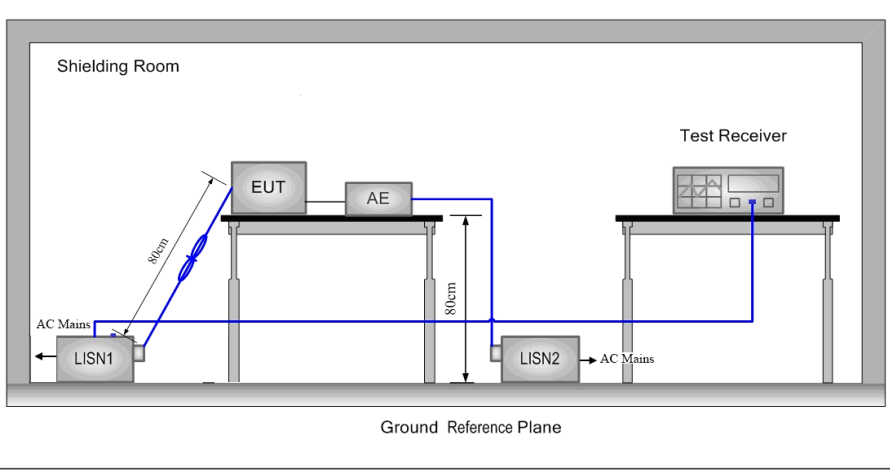
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4.2 AC Power Line Conducted Emissions

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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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, 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.		



Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

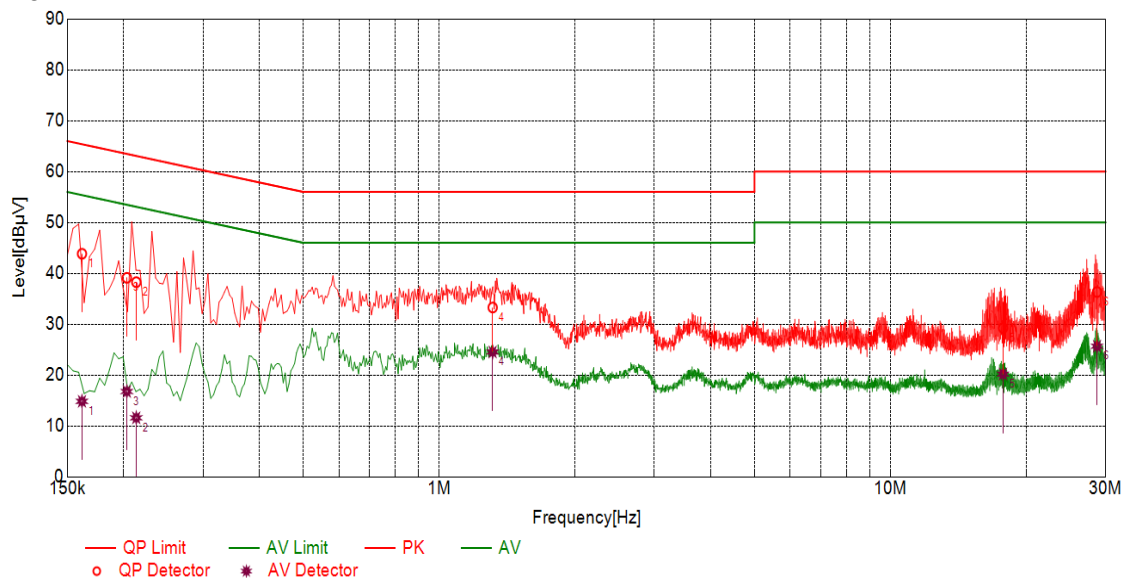


Measurement Data

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]	Type
1	0.1617	10.10	43.85	65.37	21.52	14.84	55.37	40.53	L
2	0.2133	10.10	38.27	63.08	24.81	11.60	53.08	41.48	L
3	0.2033	10.10	39.12	63.47	24.35	16.77	53.47	36.70	L
4	1.3143	10.10	33.28	56.00	22.72	24.54	46.00	21.46	L
5	17.7661	10.11	29.27	60.00	30.73	20.19	50.00	29.81	L
6	28.7041	10.11	36.34	60.00	23.66	25.67	50.00	24.33	L

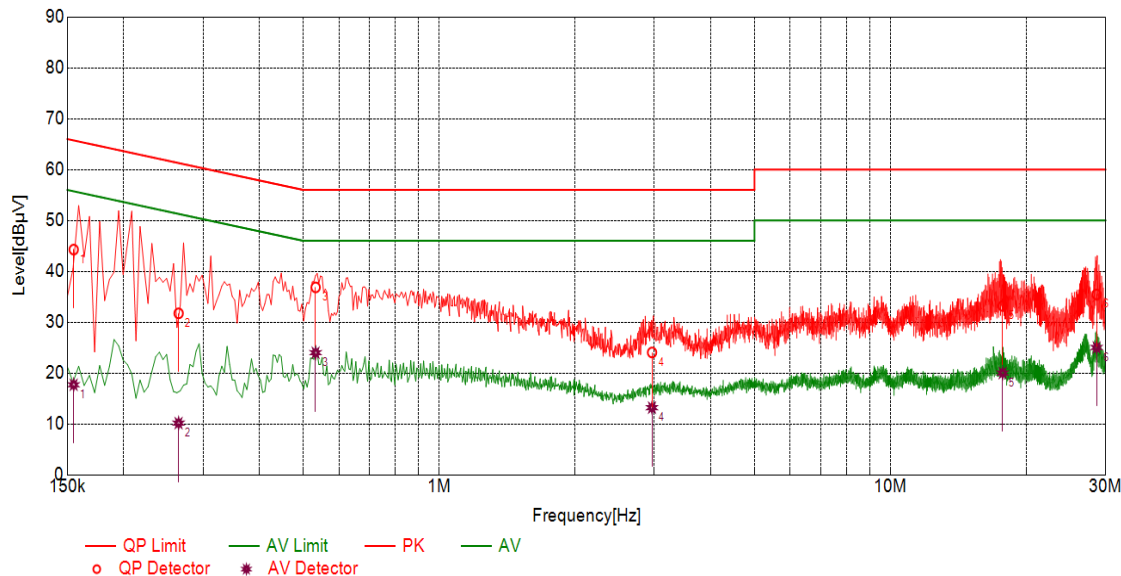


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Shenzhen Branch

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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]	Type
1	0.1550	10.10	44.28	65.73	21.45	17.70	55.73	38.03	N
2	0.2647	10.10	31.74	61.28	29.54	10.16	51.28	41.12	N
3	0.5326	10.10	36.85	56.00	19.15	24.00	46.00	22.00	N
4	2.9636	10.10	24.05	56.00	31.95	13.20	46.00	32.80	N
5	17.7347	10.11	33.18	60.00	26.82	20.01	50.00	29.99	N
6	28.6422	10.11	35.46	60.00	24.54	25.02	50.00	24.98	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.



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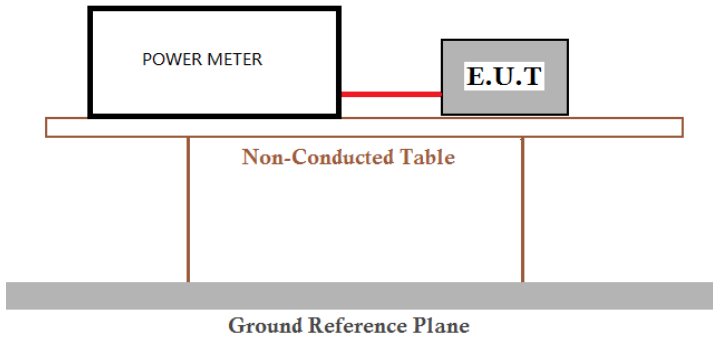
4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

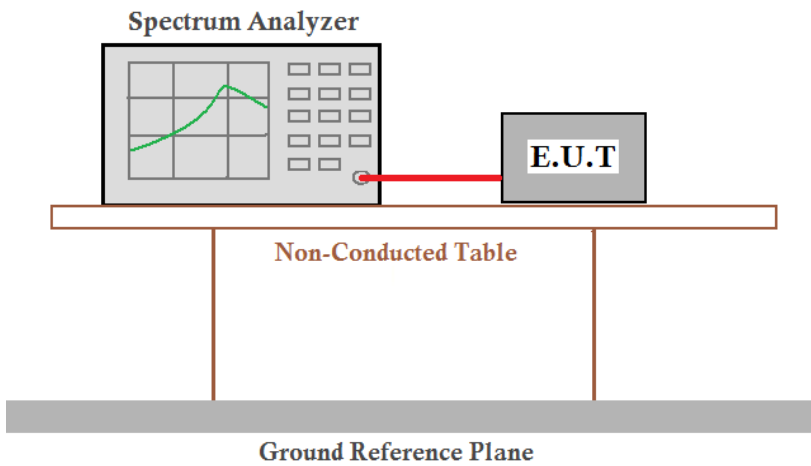
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate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

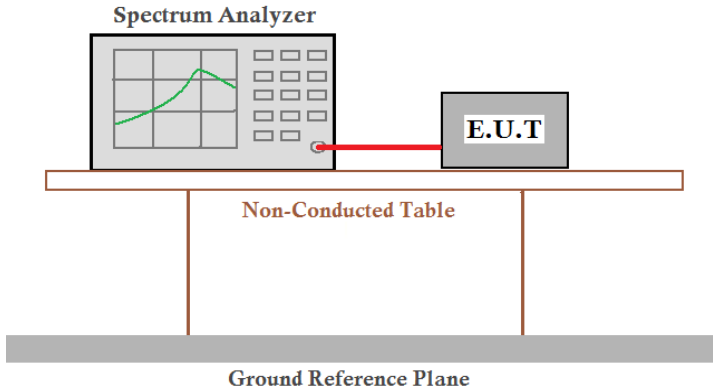
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps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

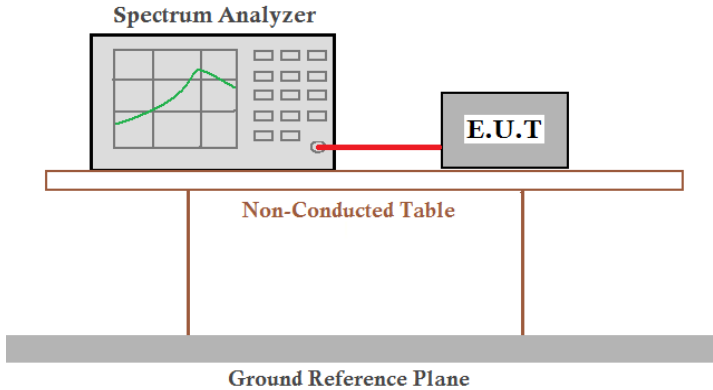
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is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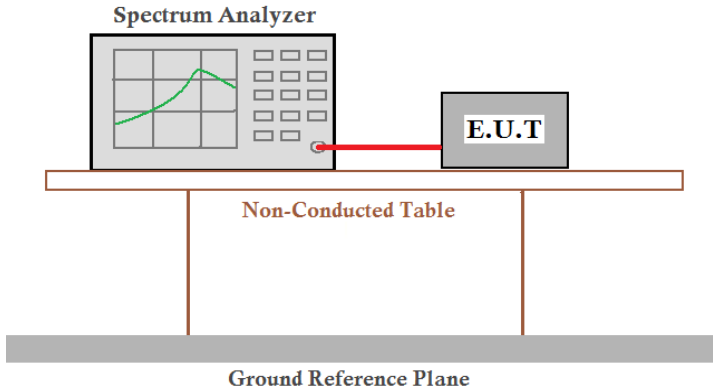
4.7 Band-edge for RF Conducted Emissions

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**



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
Limit:	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



Test Setup:

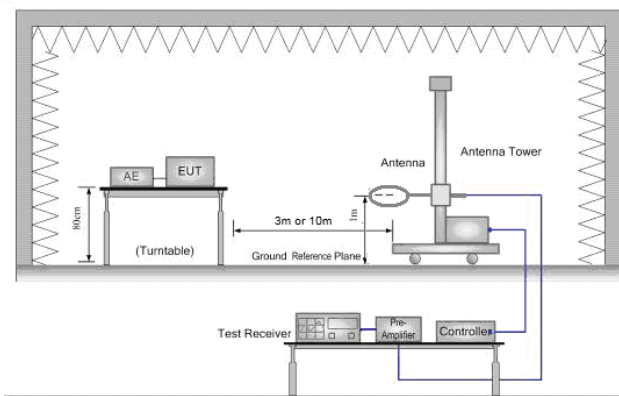


Figure 1. Below 30MHz

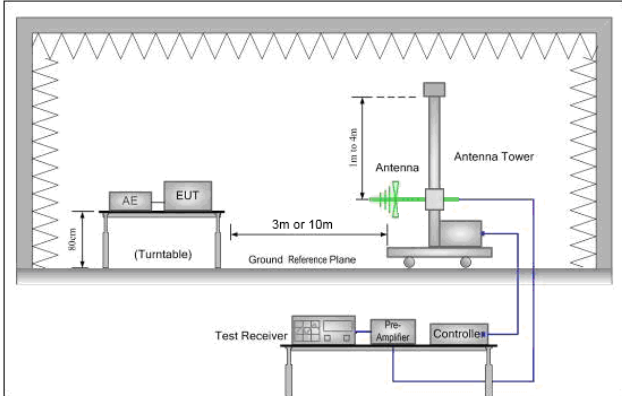


Figure 2. 30MHz to 1GHz

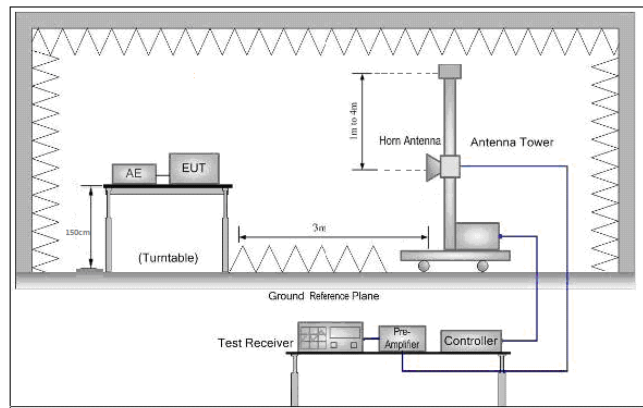


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Use the following spectrum analyzer settings:
 - Span shall wide enough to fully capture the emission being measured;
 - 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
 - For average measurement: use duty cycle correction factor method per 15.35(c).



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



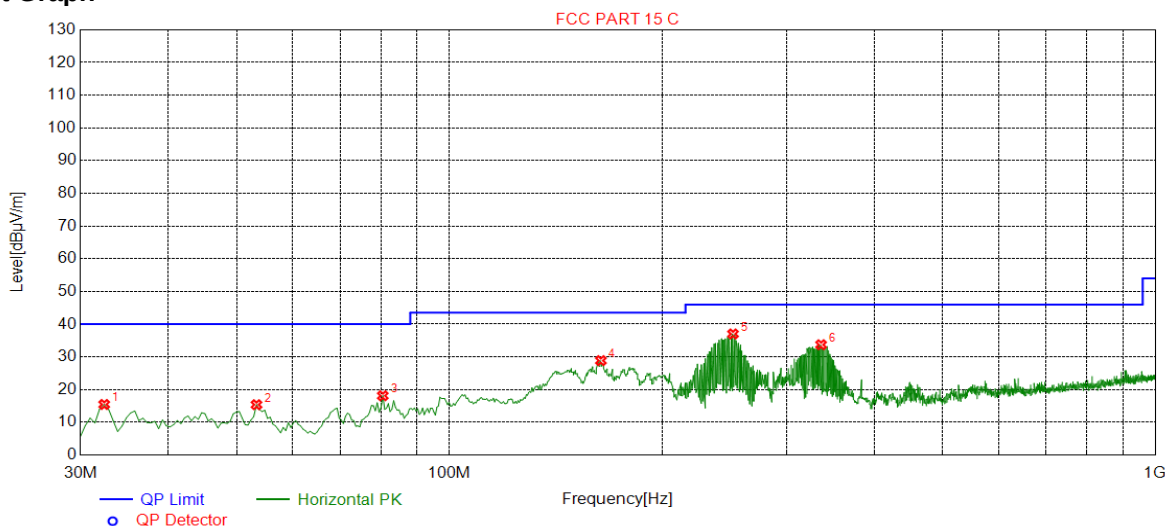
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4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting

Test Graph



Suspected List

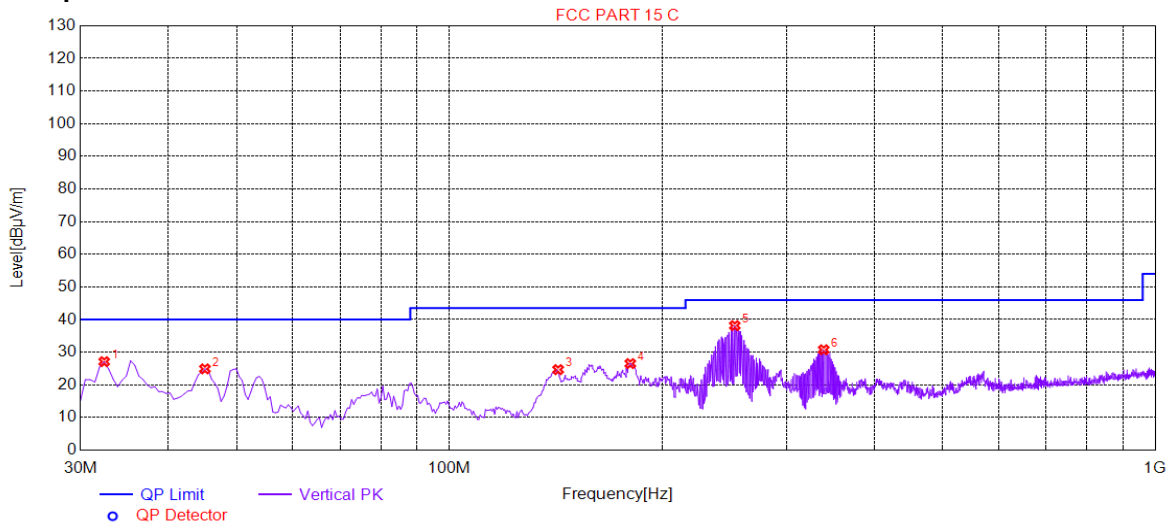
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4262	15.46	40.00	24.54	236	256	Horizontal
2	53.2916	15.39	40.00	24.61	199	213	Horizontal
3	80.4652	18.13	40.00	21.87	129	278	Horizontal
4	163.9270	28.87	43.50	14.63	115	131	Horizontal
5	252.2411	37.02	46.00	8.98	113	210	Horizontal
6	336.1881	33.73	46.00	12.27	132	213	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	32.4262	27.12	40.00	12.88	242	155	Vertical
2	45.0425	24.91	40.00	15.09	198	329	Vertical
3	142.5763	24.68	43.50	18.82	227	89	Vertical
4	180.4252	26.53	43.50	16.97	279	16	Vertical
5	253.6968	38.16	46.00	7.84	190	348	Vertical
6	339.0996	30.77	46.00	15.23	276	319	Vertical

Final Data List



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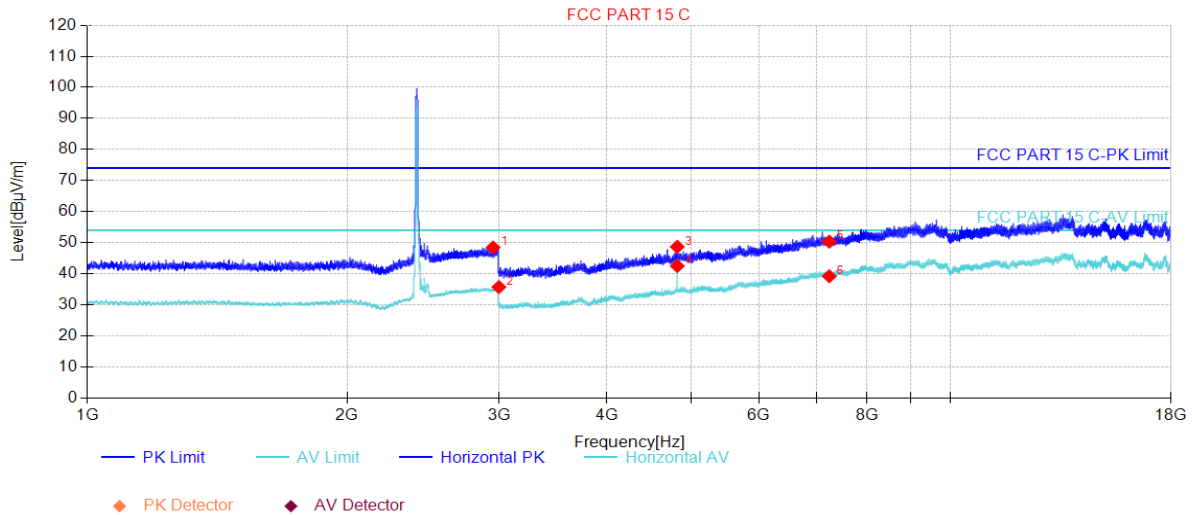
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4.9.2 Transmitter emission above 1GHz

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	2952.195	48.43	7.19	74.00	25.57	220	Horizontal
2	2997.799	35.69	7.40	54.00	18.31	247	Horizontal
3	4824.000	48.65	-10.56	74.00	25.35	156	Horizontal
4	4824.560	42.47	-10.56	54.00	11.53	323	Horizontal
5	7236.000	50.32	-2.59	74.00	23.68	183	Horizontal
6	7236.000	39.18	-2.59	54.00	14.82	304	Horizontal

Final Data List



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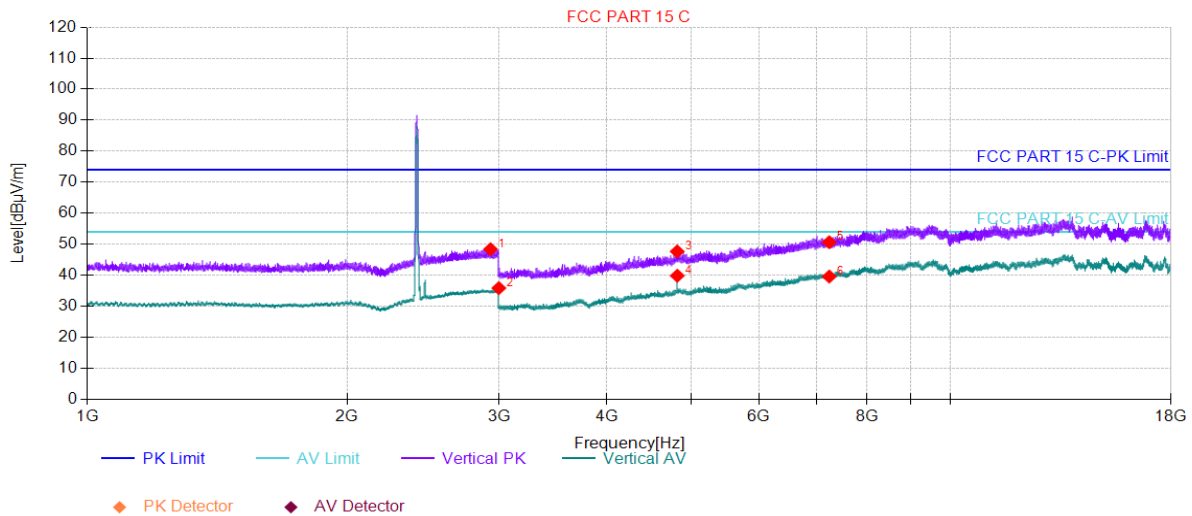
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4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2931.793	48.36	7.10	74.00	25.64	340	Vertical
2	2997.599	35.82	7.40	54.00	18.18	262	Vertical
3	4824.000	47.64	-10.56	74.00	26.36	395	Vertical
4	4824.560	39.82	-10.56	54.00	14.18	193	Vertical
5	7236.000	50.62	-2.59	74.00	23.38	138	Vertical
6	7236.000	39.56	-2.59	54.00	14.44	212	Vertical

Final Data List

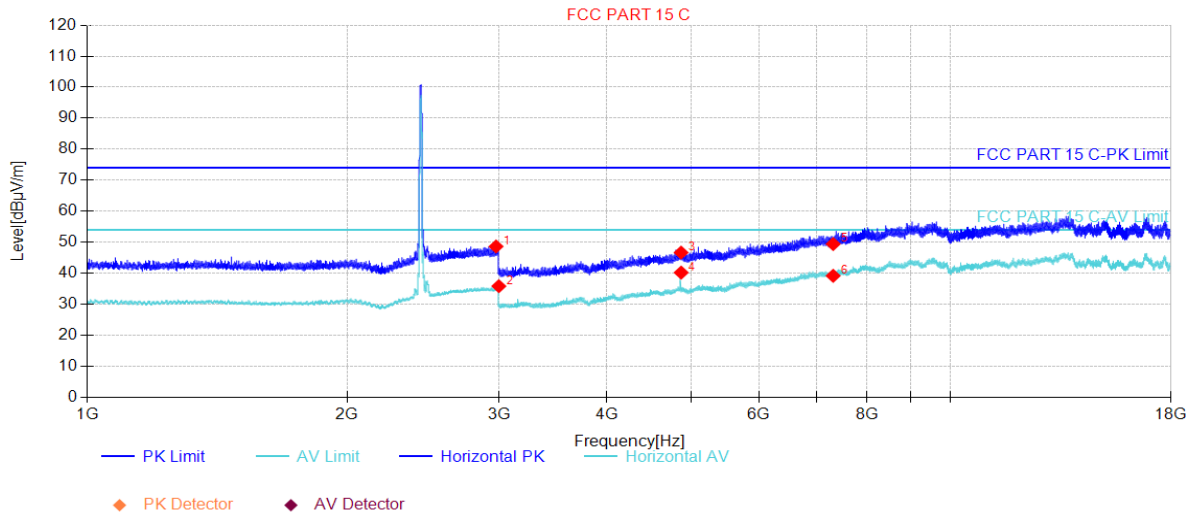


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4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2975.197	48.61	7.30	74.00	25.39	208	Horizontal
2	2997.599	35.80	7.40	54.00	18.20	340	Horizontal
3	4874.000	46.64	-10.40	74.00	27.36	347	Horizontal
4	4874.562	40.18	-10.40	54.00	13.82	168	Horizontal
5	7311.000	49.39	-2.58	74.00	24.61	180	Horizontal
6	7311.000	39.13	-2.58	54.00	14.87	252	Horizontal

Final Data List



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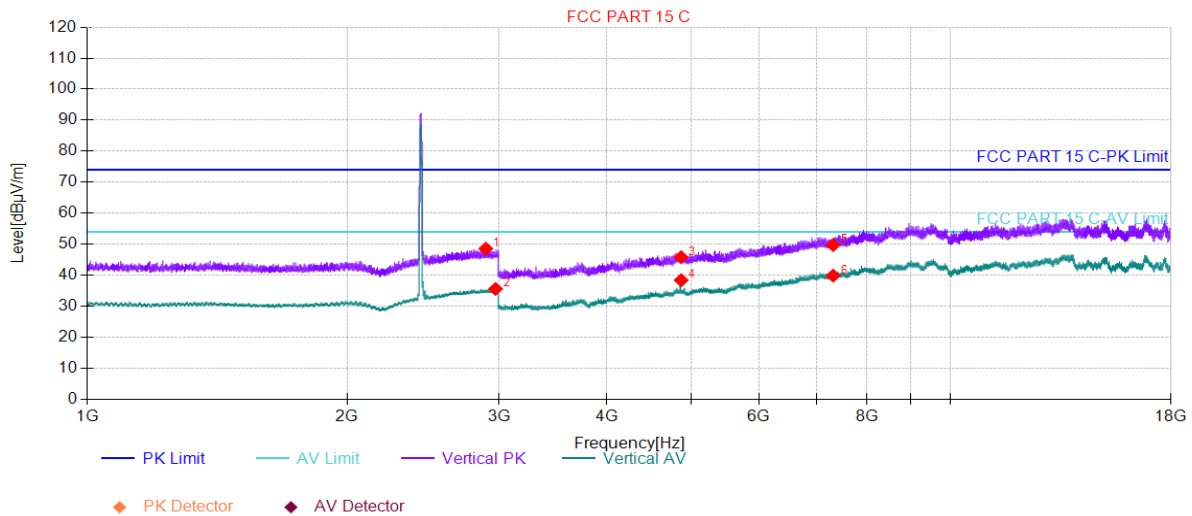
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4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2894.989	48.54	6.94	74.00	25.46	106	Vertical
2	2970.997	35.56	7.28	54.00	18.44	352	Vertical
3	4874.000	45.79	-10.40	74.00	28.21	297	Vertical
4	4874.562	38.37	-10.40	54.00	15.63	106	Vertical
5	7311.000	49.71	-2.58	74.00	24.29	244	Vertical
6	7311.000	39.85	-2.58	54.00	14.15	351	Vertical

Final Data List



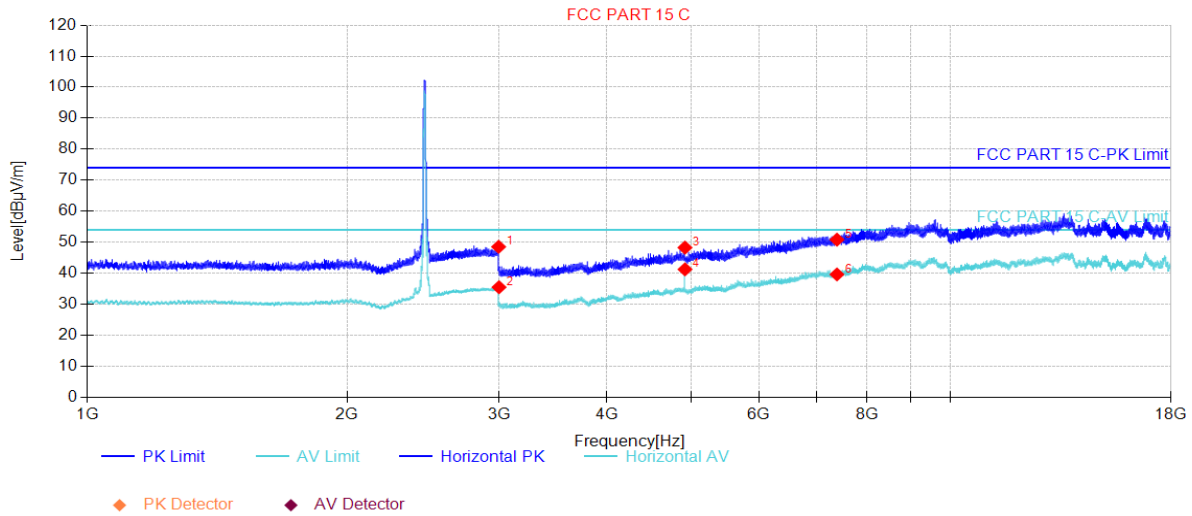
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4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.399	48.50	7.39	74.00	25.50	188	Horizontal
2	2998.599	35.46	7.40	54.00	18.54	159	Horizontal
3	4924.000	48.25	-10.22	74.00	25.75	398	Horizontal
4	4924.564	41.22	-10.22	54.00	12.78	244	Horizontal
5	7386.000	50.80	-2.06	74.00	23.20	222	Horizontal
6	7386.000	39.59	-2.06	54.00	14.41	226	Horizontal

Final Data List

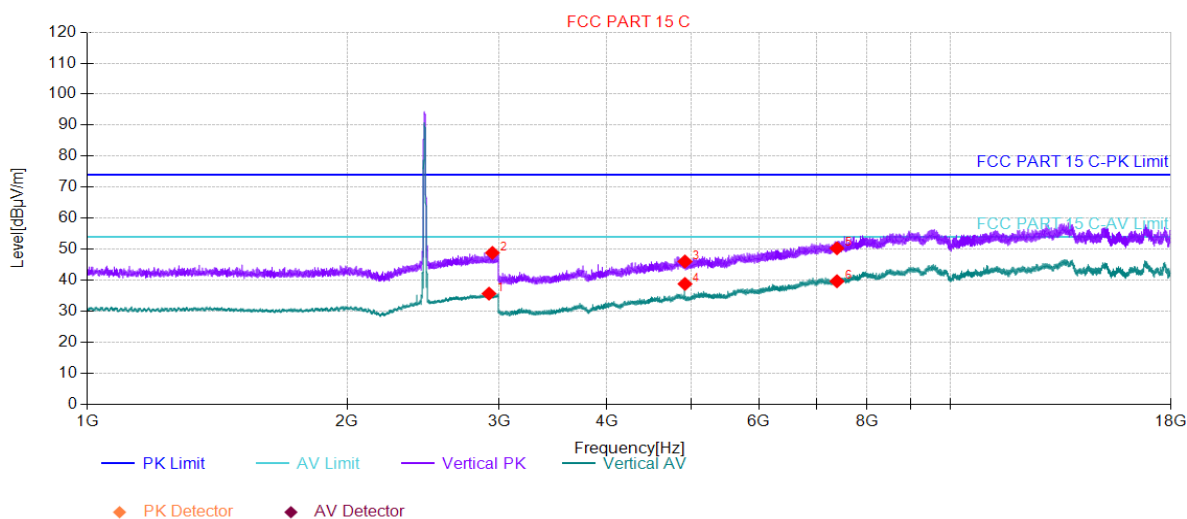


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4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2919.792	35.65	7.04	54.00	18.35	119	Vertical
2	2946.594	48.82	7.16	74.00	25.18	159	Vertical
3	4924.000	46.02	-10.22	74.00	27.98	300	Vertical
4	4924.564	38.78	-10.22	54.00	15.22	366	Vertical
5	7386.000	50.27	-2.06	74.00	23.73	118	Vertical
6	7386.000	39.65	-2.06	54.00	14.35	365	Vertical

Final Data List

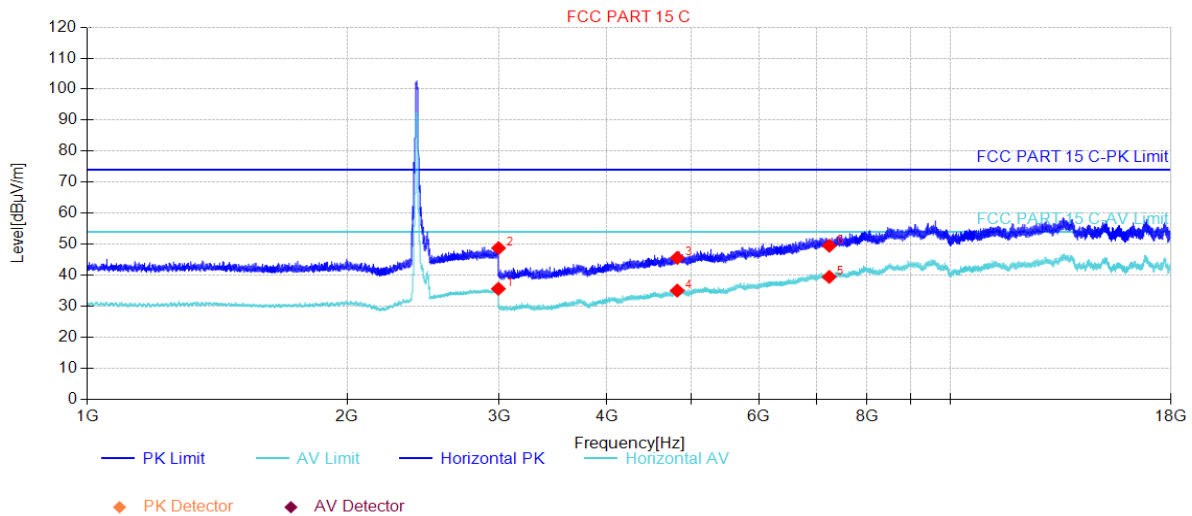


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4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.999	35.61	7.38	54.00	18.39	242	Horizontal
2	2995.199	48.74	7.39	74.00	25.26	197	Horizontal
3	4824.000	45.58	-10.56	74.00	28.42	231	Horizontal
4	4824.000	35.02	-10.56	54.00	18.98	174	Horizontal
5	7236.000	39.44	-2.59	54.00	14.56	154	Horizontal
6	7236.000	49.49	-2.59	74.00	24.51	398	Horizontal

Final Data List



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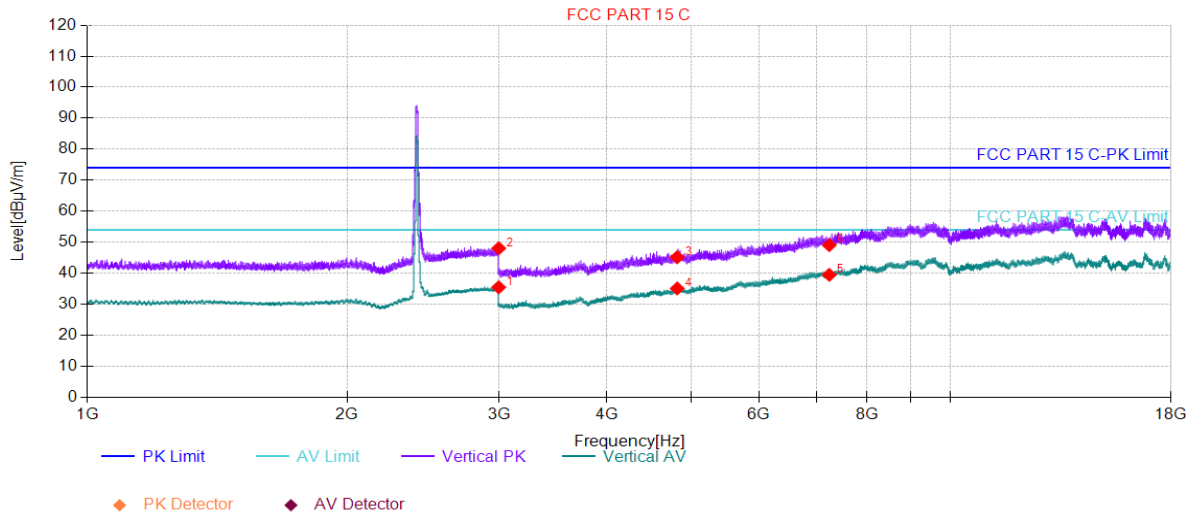
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4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2996.399	35.44	7.39	54.00	18.56	368	Vertical
2	2996.799	48.03	7.40	74.00	25.97	221	Vertical
3	4824.000	45.13	-10.56	74.00	28.87	108	Vertical
4	4824.000	35.06	-10.56	54.00	18.94	190	Vertical
5	7236.000	39.46	-2.59	54.00	14.54	302	Vertical
6	7236.000	49.03	-2.59	74.00	24.97	263	Vertical

Final Data List

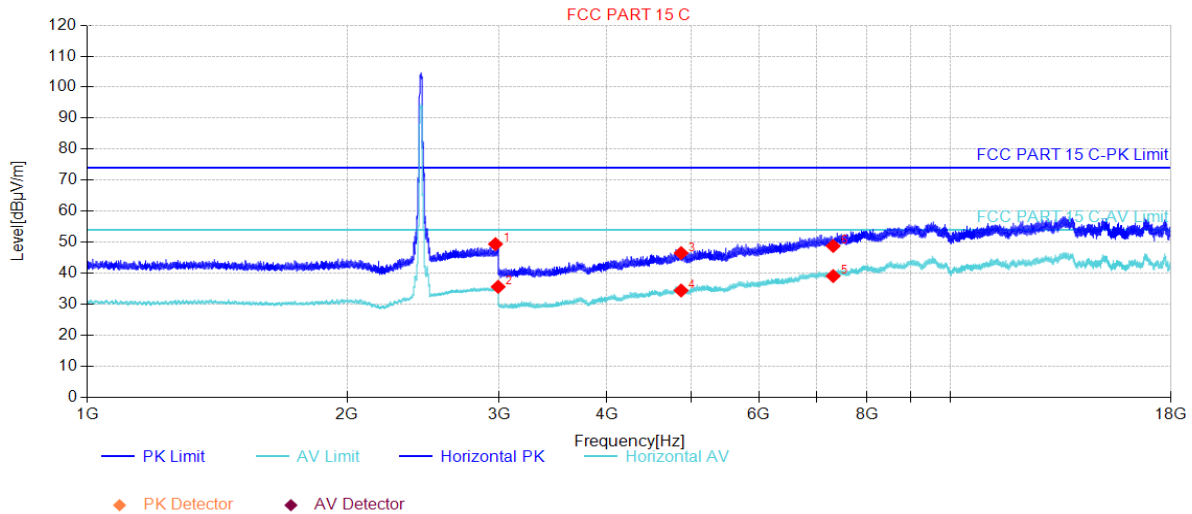


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4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2970.597	49.36	7.27	74.00	24.64	277	Horizontal
2	2992.199	35.59	7.37	54.00	18.41	134	Horizontal
3	4874.000	46.49	-10.40	74.00	27.51	119	Horizontal
4	4874.000	34.40	-10.40	54.00	19.60	302	Horizontal
5	7311.000	39.07	-2.58	54.00	14.93	119	Horizontal
6	7311.000	48.76	-2.58	74.00	25.24	231	Horizontal

Final Data List

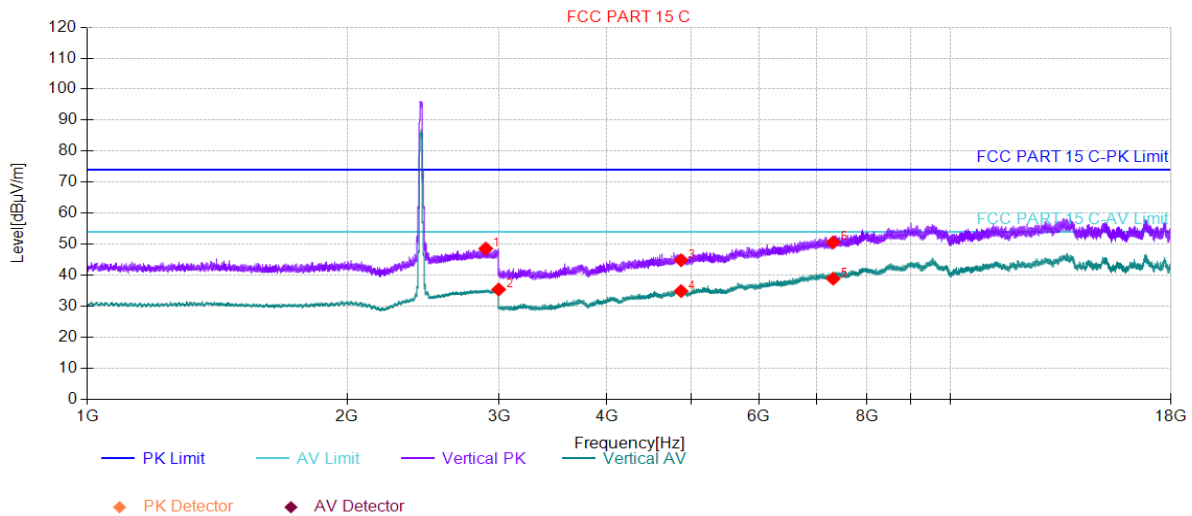


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4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2894.589	48.56	6.94	74.00	25.44	380	Vertical
2	2996.399	35.38	7.39	54.00	18.62	174	Vertical
3	4874.000	44.80	-10.40	74.00	29.20	355	Vertical
4	4874.000	34.86	-10.40	54.00	19.14	250	Vertical
5	7311.000	38.85	-2.58	54.00	15.15	251	Vertical
6	7311.000	50.58	-2.58	74.00	23.42	351	Vertical

Final Data List

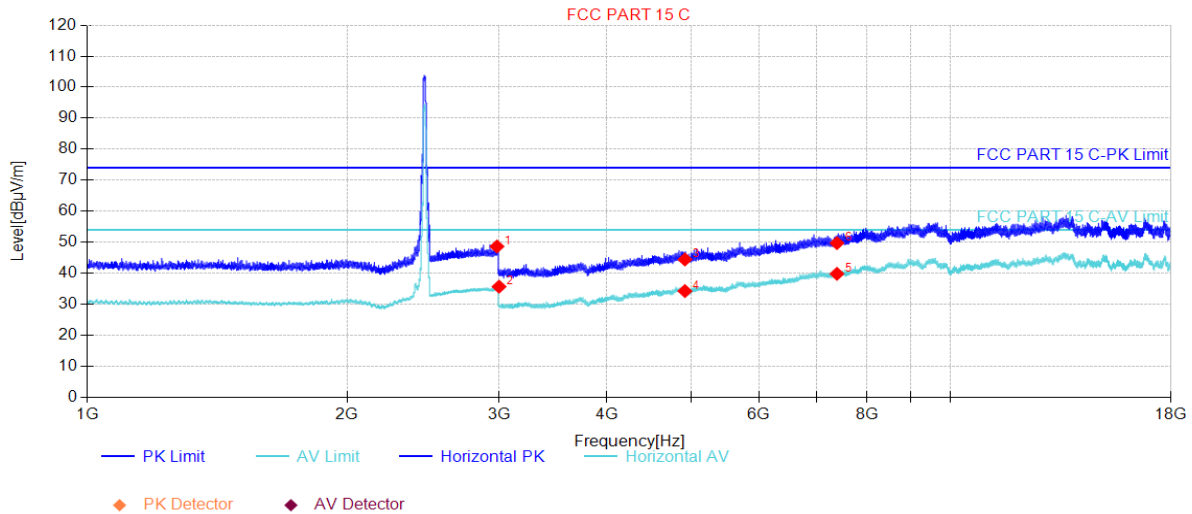


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4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.398	48.60	7.33	74.00	25.40	317	Horizontal
2	2999.199	35.65	7.41	54.00	18.35	321	Horizontal
3	4924.000	44.42	-10.22	74.00	29.58	151	Horizontal
4	4924.000	34.21	-10.22	54.00	19.79	133	Horizontal
5	7386.000	39.78	-2.06	54.00	14.22	303	Horizontal
6	7386.000	49.70	-2.06	74.00	24.30	300	Horizontal

Final Data List

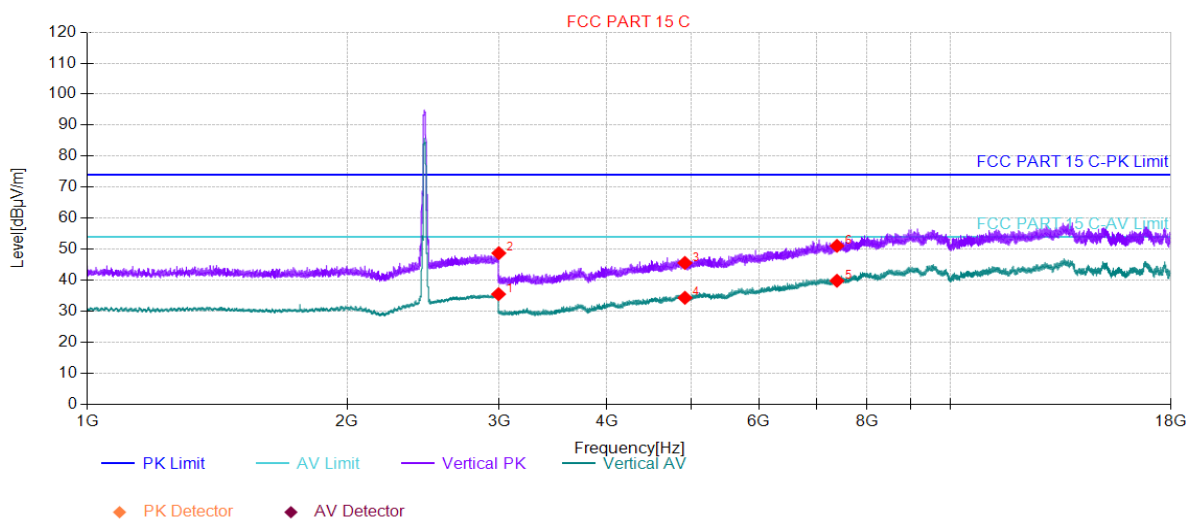


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4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.999	35.48	7.39	54.00	18.52	104	Vertical
2	2997.199	48.71	7.40	74.00	25.29	263	Vertical
3	4924.000	45.56	-10.22	74.00	28.44	317	Vertical
4	4924.000	34.30	-10.22	54.00	19.70	391	Vertical
5	7386.000	39.81	-2.06	54.00	14.19	297	Vertical
6	7386.000	51.06	-2.06	74.00	22.94	400	Vertical

Final Data List

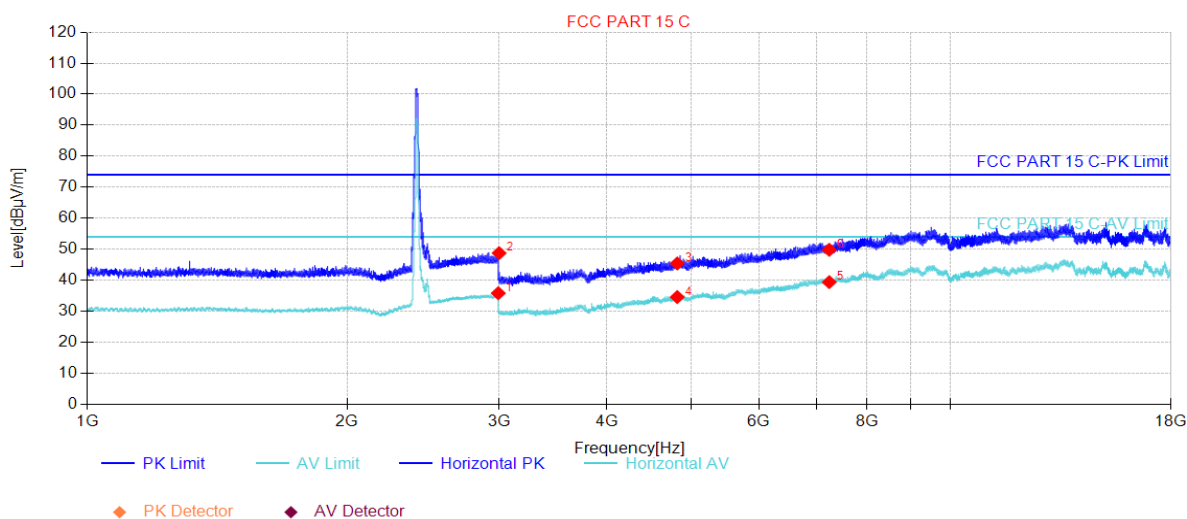


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4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	35.79	7.38	54.00	18.21	377	Horizontal
2	2999.600	48.72	7.41	74.00	25.28	198	Horizontal
3	4824.000	45.38	-10.56	74.00	28.62	111	Horizontal
4	4824.000	34.55	-10.56	54.00	19.45	333	Horizontal
5	7236.000	39.36	-2.59	54.00	14.64	239	Horizontal
6	7236.000	49.79	-2.59	74.00	24.21	169	Horizontal

Final Data List

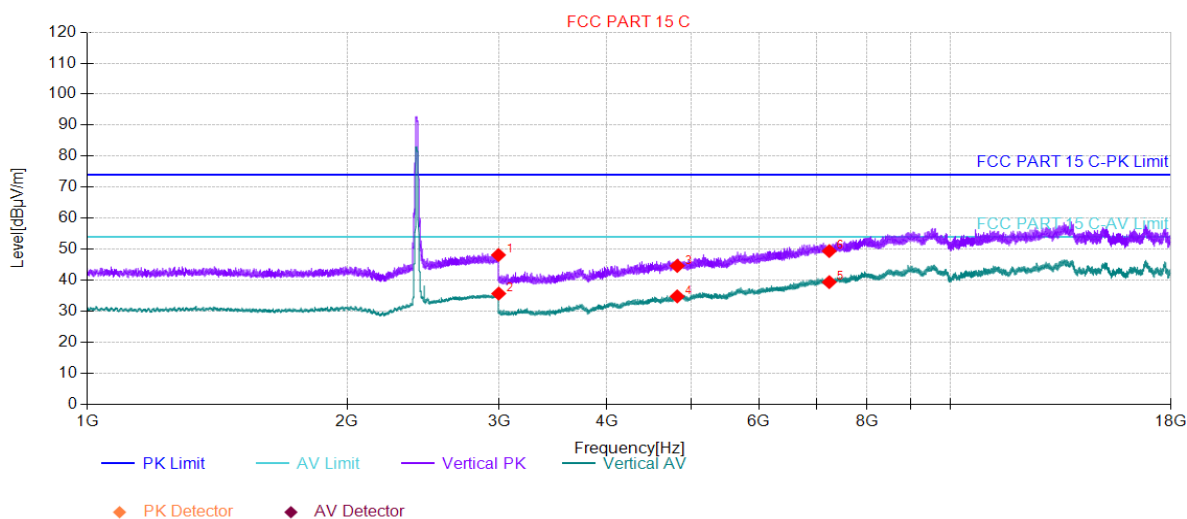


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4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.399	48.11	7.38	74.00	25.89	144	Vertical
2	2996.599	35.66	7.39	54.00	18.34	363	Vertical
3	4824.000	44.60	-10.56	74.00	29.40	395	Vertical
4	4824.000	34.76	-10.56	54.00	19.24	225	Vertical
5	7236.000	39.36	-2.59	54.00	14.64	343	Vertical
6	7236.000	49.39	-2.59	74.00	24.61	247	Vertical

Final Data List

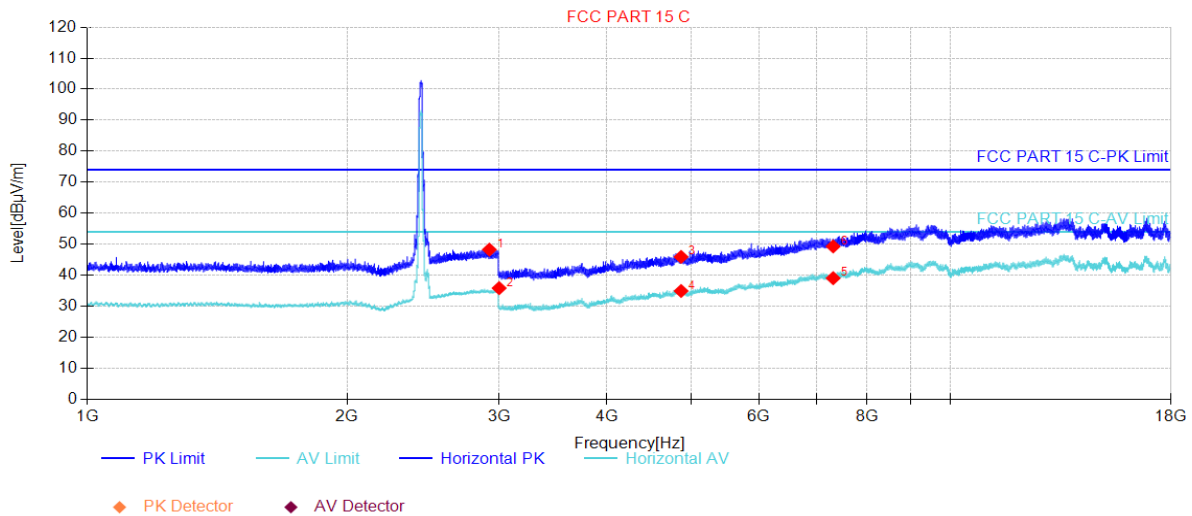


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4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2922.792	48.23	7.05	74.00	25.77	365	Horizontal
2	3000.000	35.81	7.41	54.00	18.19	118	Horizontal
3	4874.000	45.90	-10.40	74.00	28.10	219	Horizontal
4	4874.000	34.89	-10.40	54.00	19.11	163	Horizontal
5	7311.000	39.03	-2.58	54.00	14.97	112	Horizontal
6	7311.000	49.27	-2.58	74.00	24.73	353	Horizontal

Final Data List



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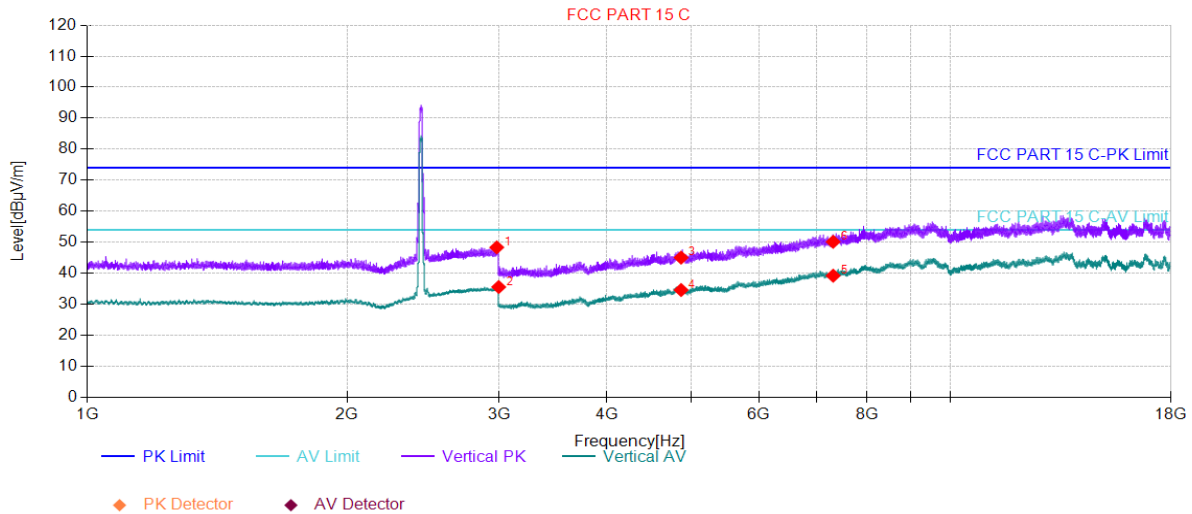
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4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2980.798	48.31	7.32	74.00	25.69	153	Vertical
2	2996.599	35.53	7.39	54.00	18.47	368	Vertical
3	4874.000	45.02	-10.40	74.00	28.98	154	Vertical
4	4874.000	34.56	-10.40	54.00	19.44	275	Vertical
5	7311.000	39.18	-2.58	54.00	14.82	388	Vertical
6	7311.000	50.12	-2.58	74.00	23.88	226	Vertical

Final Data List

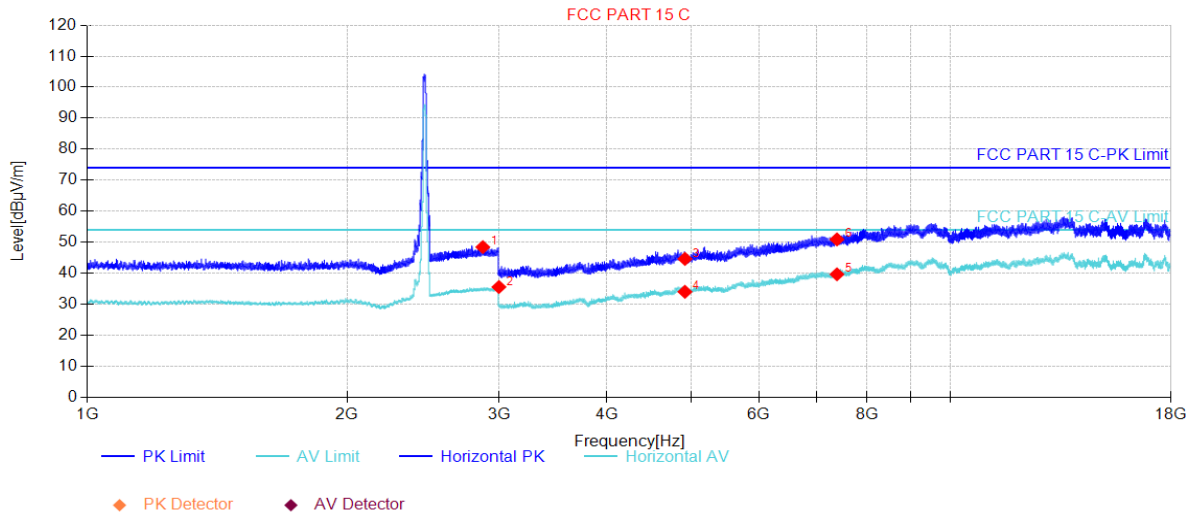


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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2872.187	48.40	6.89	74.00	25.60	259	Horizontal
2	2997.999	35.53	7.40	54.00	18.47	298	Horizontal
3	4924.000	44.61	-10.22	74.00	29.39	195	Horizontal
4	4924.000	33.98	-10.22	54.00	20.02	256	Horizontal
5	7386.000	39.63	-2.06	54.00	14.37	270	Horizontal
6	7386.000	50.89	-2.06	74.00	23.11	399	Horizontal

Final Data List



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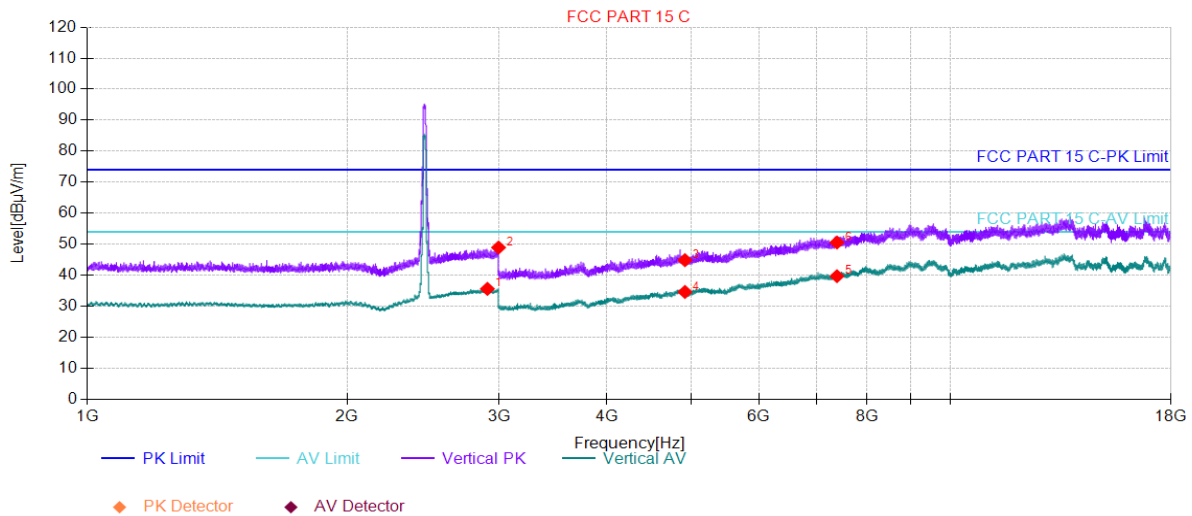
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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2907.390	35.58	6.98	54.00	18.42	302	Vertical
2	2995.199	48.90	7.39	74.00	25.10	146	Vertical
3	4924.000	44.84	-10.22	74.00	29.16	127	Vertical
4	4924.000	34.58	-10.22	54.00	19.42	372	Vertical
5	7386.000	39.67	-2.06	54.00	14.33	283	Vertical
6	7386.000	50.53	-2.06	74.00	23.47	187	Vertical

Final Data List



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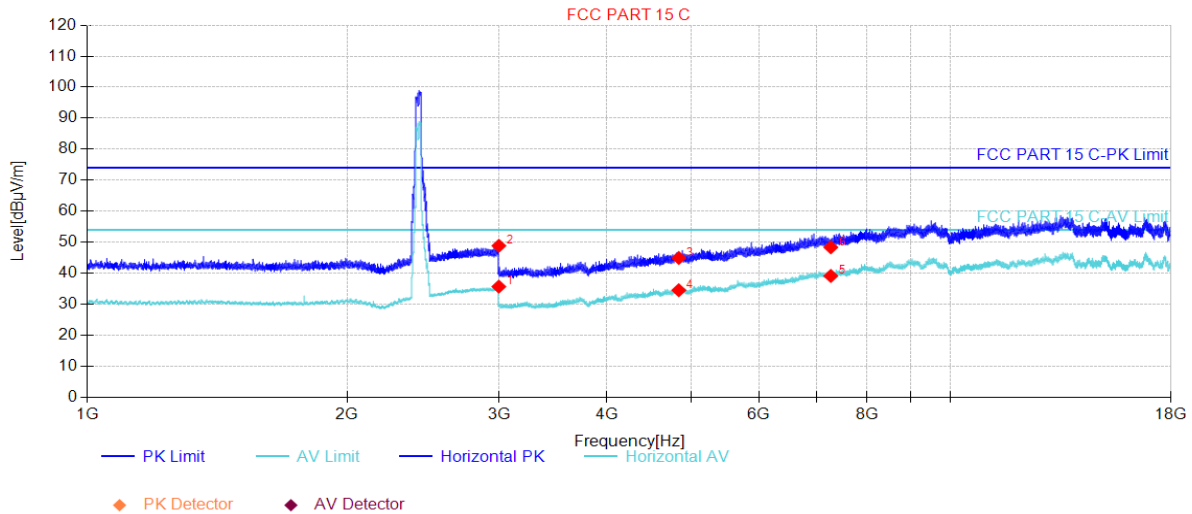
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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2997.399	35.65	7.40	54.00	18.35	134	Horizontal
2	2997.799	48.83	7.40	74.00	25.17	171	Horizontal
3	4844.000	44.90	-10.50	74.00	29.10	365	Horizontal
4	4844.000	34.49	-10.50	54.00	19.51	210	Horizontal
5	7266.000	39.10	-2.62	54.00	14.90	144	Horizontal
6	7266.000	48.34	-2.62	74.00	25.66	196	Horizontal

Final Data List

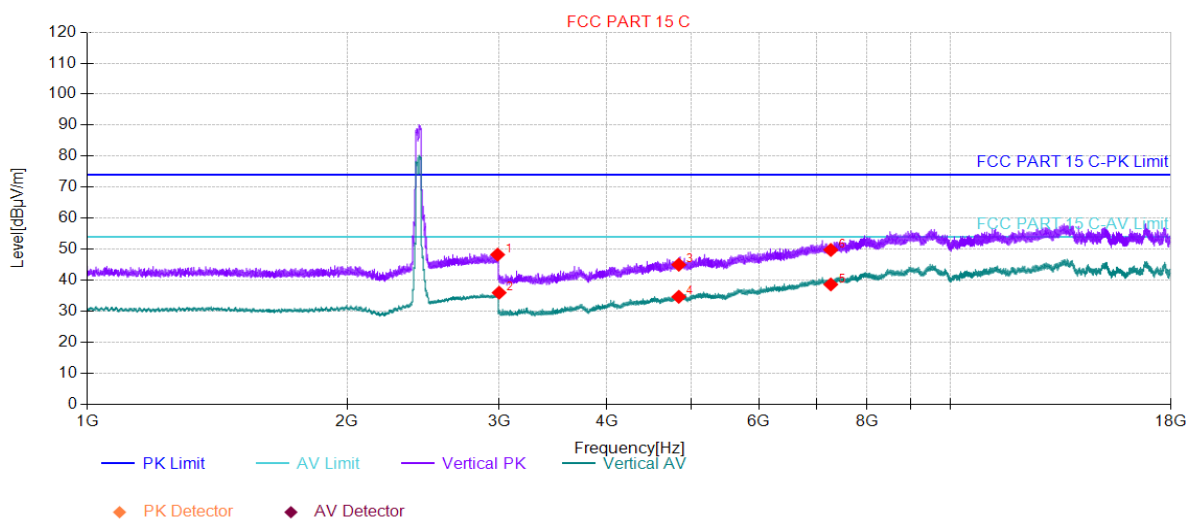


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4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.598	48.23	7.35	74.00	25.77	242	Vertical
2	3000.000	35.95	7.41	54.00	18.05	298	Vertical
3	4844.000	44.99	-10.50	74.00	29.01	123	Vertical
4	4844.000	34.63	-10.50	54.00	19.37	300	Vertical
5	7266.000	38.62	-2.62	54.00	15.38	397	Vertical
6	7266.000	49.75	-2.62	74.00	24.25	243	Vertical

Final Data List

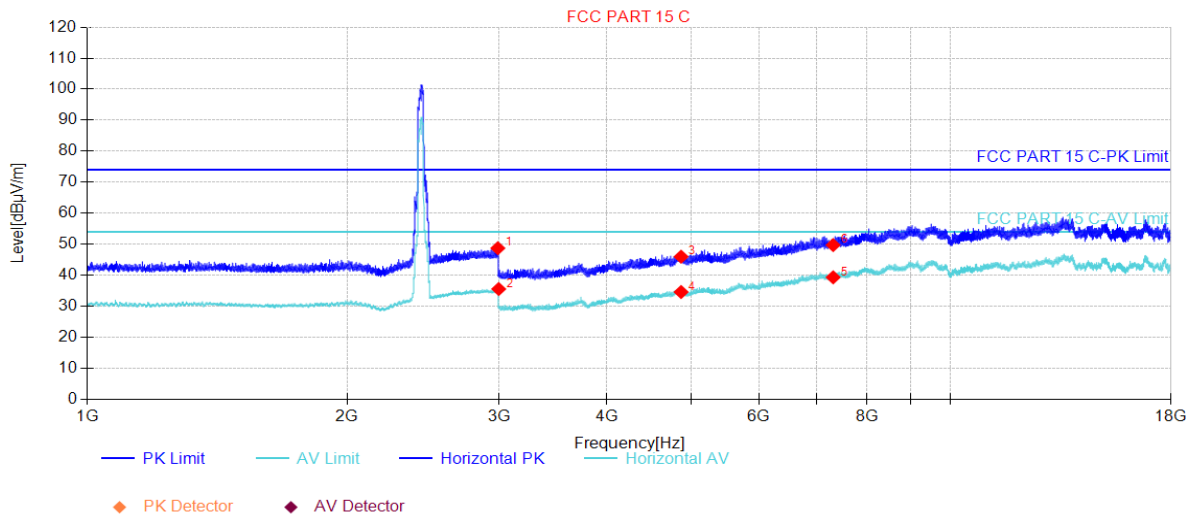


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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2989.398	48.70	7.36	74.00	25.30	261	Horizontal
2	2996.599	35.52	7.39	54.00	18.48	209	Horizontal
3	4874.000	45.95	-10.40	74.00	28.05	389	Horizontal
4	4874.000	34.56	-10.40	54.00	19.44	113	Horizontal
5	7311.000	39.29	-2.58	54.00	14.71	375	Horizontal
6	7311.000	49.70	-2.58	74.00	24.30	364	Horizontal

Final Data List

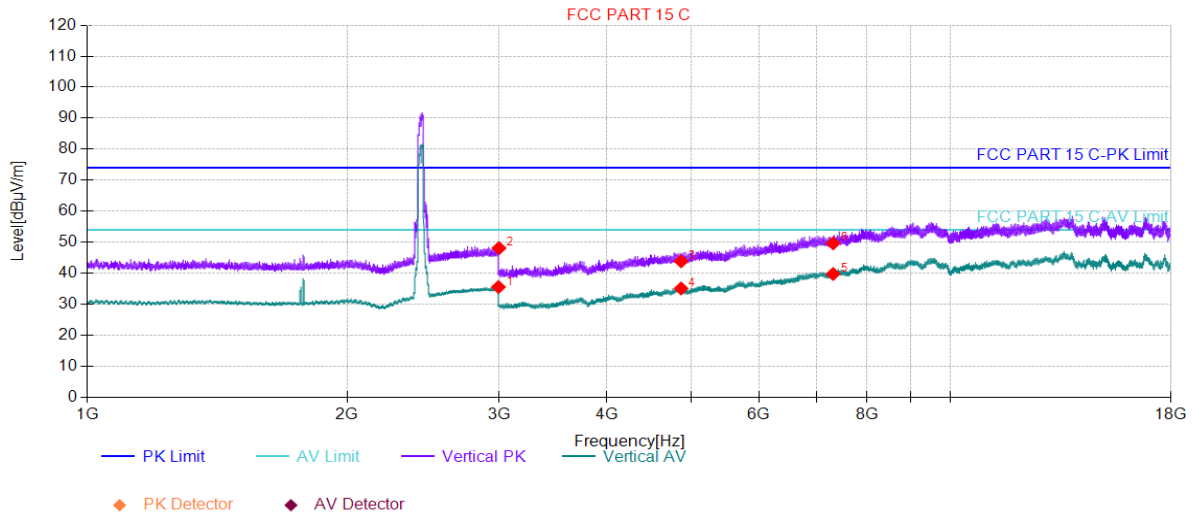


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4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.599	35.52	7.39	54.00	18.48	147	Vertical
2	2999.199	48.07	7.41	74.00	25.93	135	Vertical
3	4874.000	43.84	-10.40	74.00	30.16	391	Vertical
4	4874.000	35.04	-10.40	54.00	18.96	212	Vertical
5	7311.000	39.74	-2.58	54.00	14.26	193	Vertical
6	7311.000	49.64	-2.58	74.00	24.36	333	Vertical

Final Data List

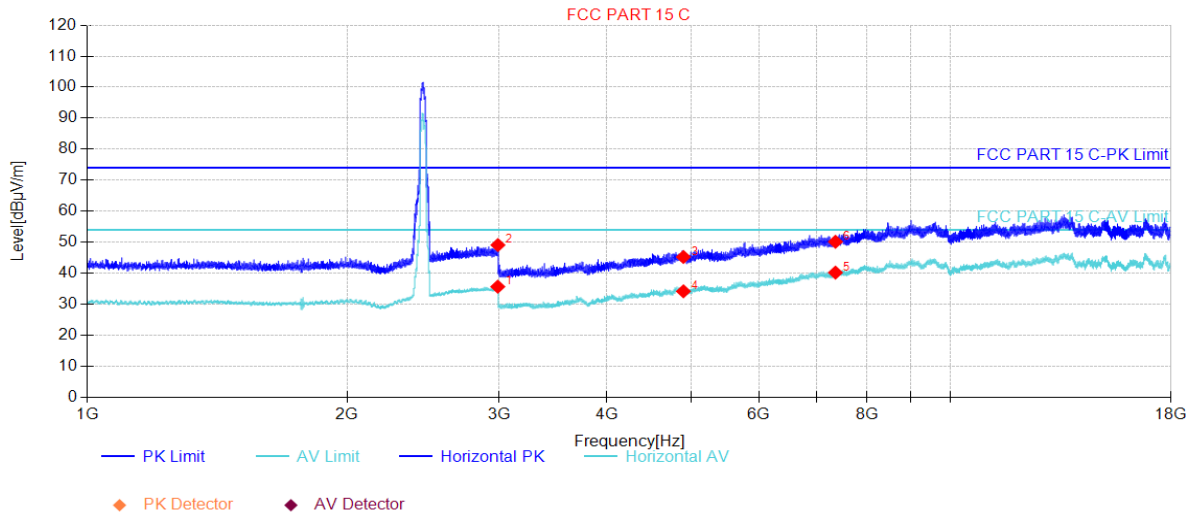


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4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2988.998	35.63	7.36	54.00	18.37	164	Horizontal
2	2989.999	49.07	7.36	74.00	24.93	189	Horizontal
3	4904.000	45.22	-10.30	74.00	28.78	231	Horizontal
4	4904.000	34.14	-10.30	54.00	19.86	289	Horizontal
5	7356.000	40.17	-2.27	54.00	13.83	200	Horizontal
6	7356.000	50.13	-2.27	74.00	23.87	397	Horizontal

Final Data List

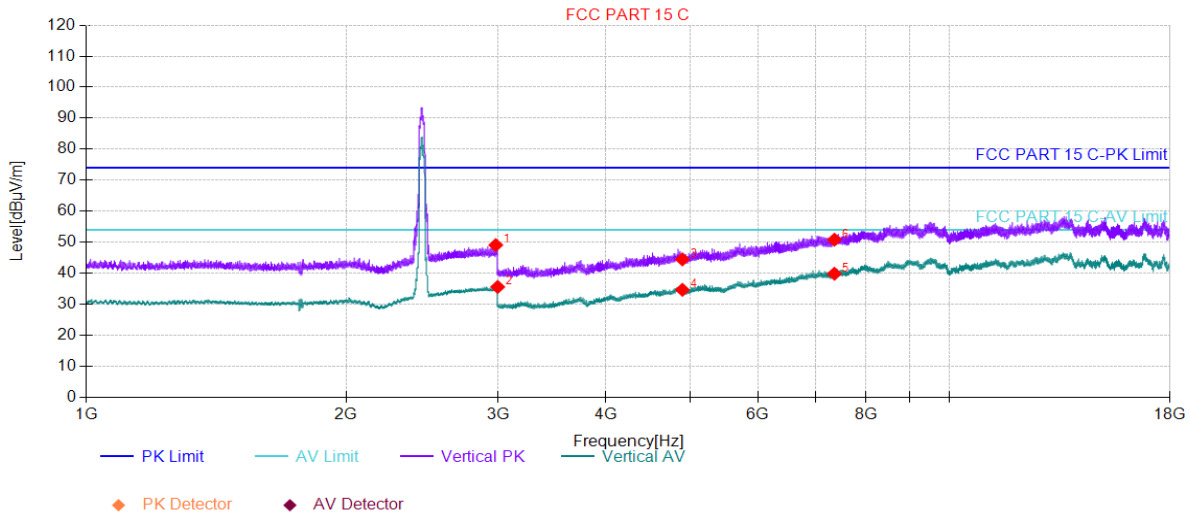


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4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2980.798	49.05	7.32	74.00	24.95	298	Vertical
2	2996.399	35.55	7.39	54.00	18.45	158	Vertical
3	4904.000	44.44	-10.30	74.00	29.56	331	Vertical
4	4904.000	34.62	-10.30	54.00	19.38	224	Vertical
5	7356.000	39.81	-2.27	54.00	14.19	138	Vertical
6	7356.000	50.80	-2.27	74.00	23.20	165	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
- 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.
- 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.
- 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:			

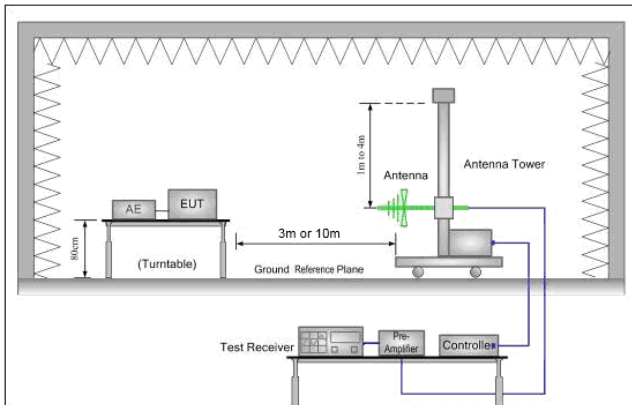


Figure 1. 30MHz to 1GHz

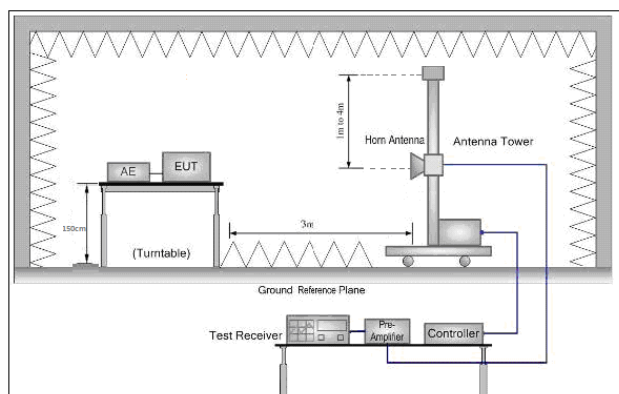


Figure 2. Above 1 GHz

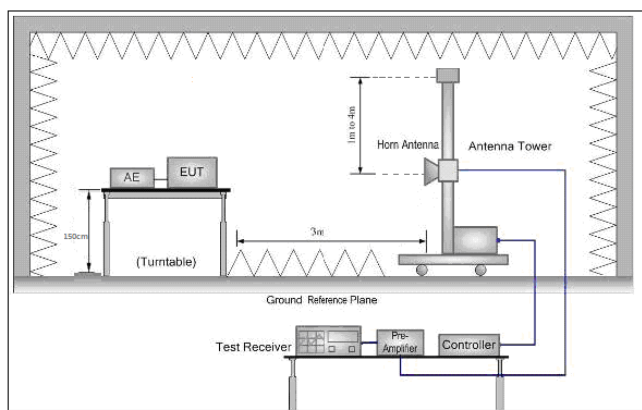


Figure 3. Above 1 GHz



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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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
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); 13.5Mbps of rate is the worst case of 802.11N(HT40); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

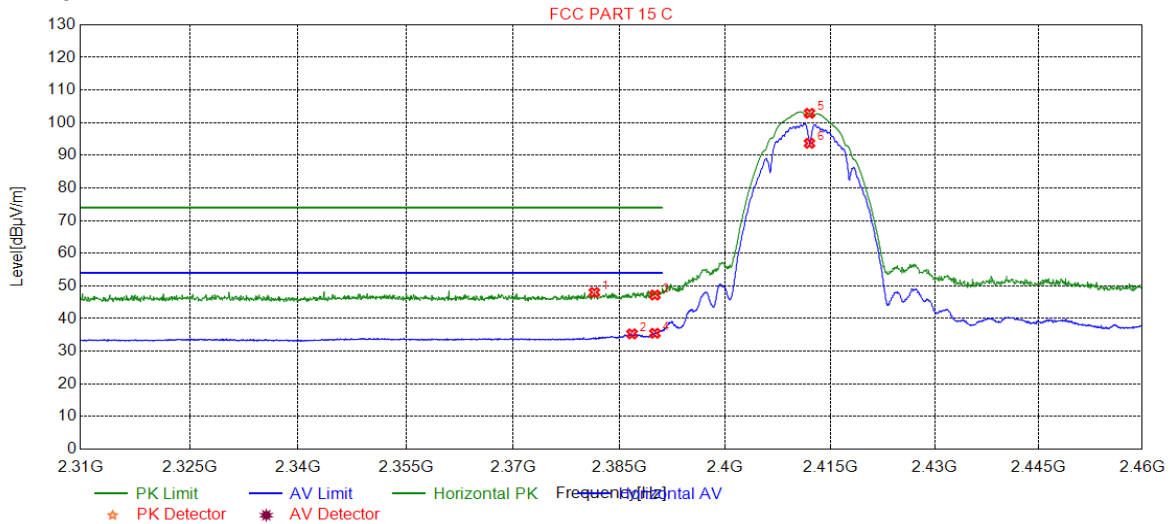


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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

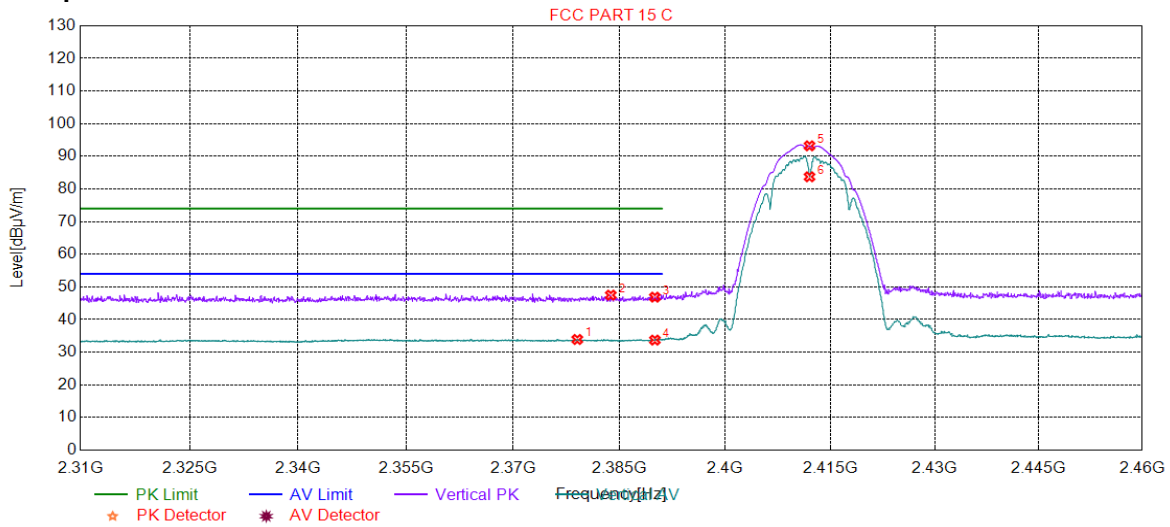
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.435	48.02	74.00	25.98	119	352	Horizontal
2	2386.763	35.32	54.00	18.68	200	329	Horizontal
3	2390.000	47.21	74.00	26.79	378	314	Horizontal
4	2390.000	35.50	54.00	18.50	395	358	Horizontal
5	2412.000	102.89	0.00	-102.89	140	329	Horizontal
6	2412.000	93.69	0.00	-93.69	219	326	Horizontal

Final Data List

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	2379.034	33.92	54.00	20.08	379	56	Vertical
2	2383.761	47.50	74.00	26.50	280	0	Vertical
3	2390.000	46.88	74.00	27.12	366	245	Vertical
4	2390.000	33.73	54.00	20.27	122	199	Vertical
5	2412.000	93.23	0.00	-93.23	299	162	Vertical
6	2412.000	83.74	0.00	-83.74	150	158	Vertical

Final Data List

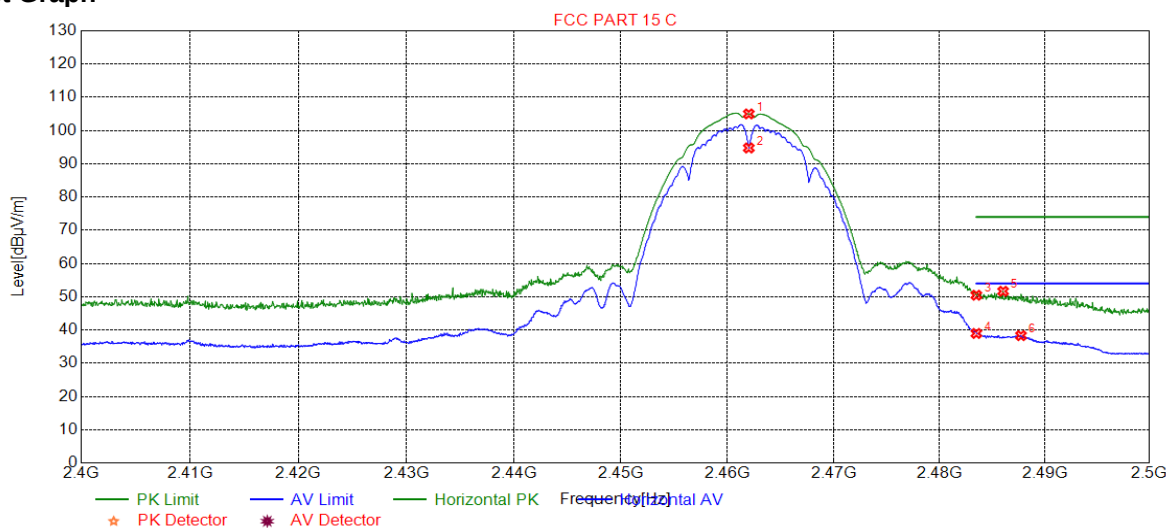


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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	105.01	0.00	-105.01	363	322	Horizontal
2	2462.000	94.76	0.00	-94.76	218	322	Horizontal
3	2483.500	50.48	74.00	23.52	168	304	Horizontal
4	2483.500	38.99	54.00	15.01	289	322	Horizontal
5	2486.043	51.67	74.00	22.33	383	326	Horizontal
6	2487.743	38.33	54.00	15.67	104	322	Horizontal

Final Data List

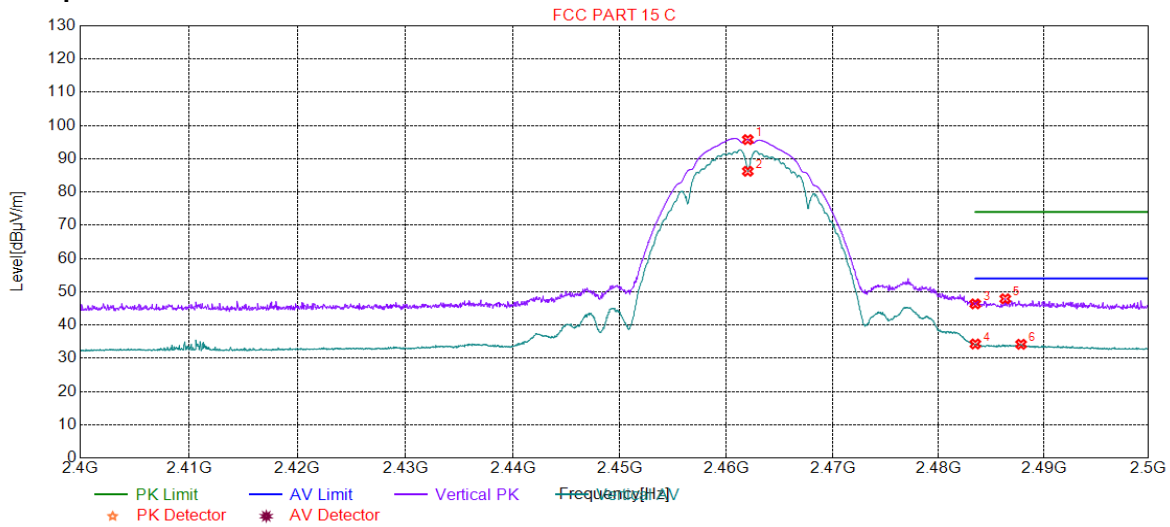


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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	95.77	0.00	-95.77	361	4	Vertical
2	2462.000	86.25	0.00	-86.25	248	4	Vertical
3	2483.500	46.38	74.00	27.62	110	60	Vertical
4	2483.500	34.31	54.00	19.69	181	135	Vertical
5	2486.343	47.89	74.00	26.11	320	135	Vertical
6	2487.843	34.23	54.00	19.77	290	34	Vertical

Final Data List



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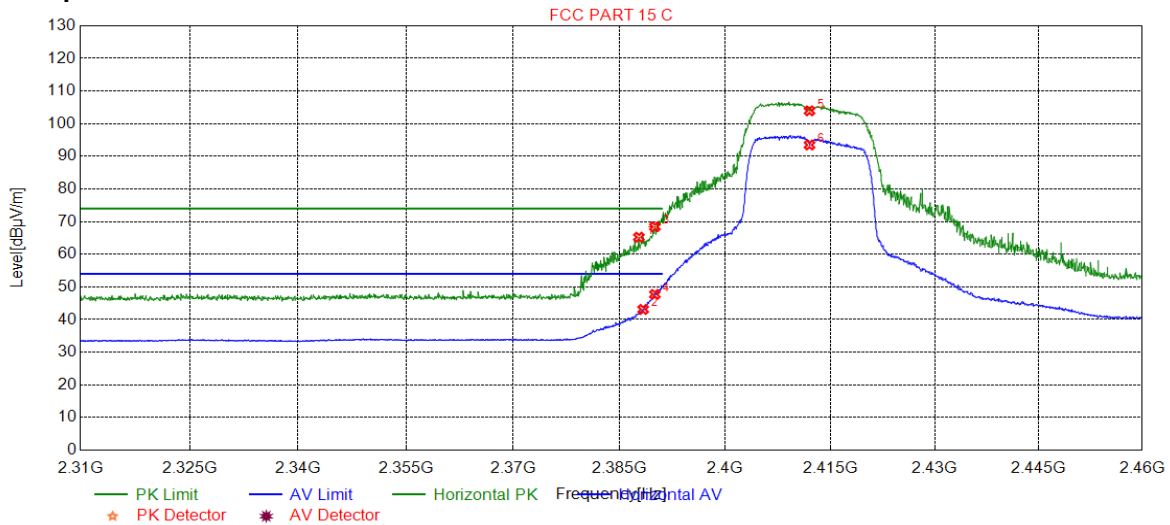
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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.738	65.24	74.00	8.76	153	346	Horizontal
2	2388.339	43.12	54.00	10.88	124	328	Horizontal
3	2390.000	68.43	74.00	5.57	351	346	Horizontal
4	2390.000	47.72	54.00	6.28	338	343	Horizontal
5	2412.000	103.95	0.00	-103.95	196	328	Horizontal
6	2412.000	93.49	0.00	-93.49	259	324	Horizontal

Final Data List



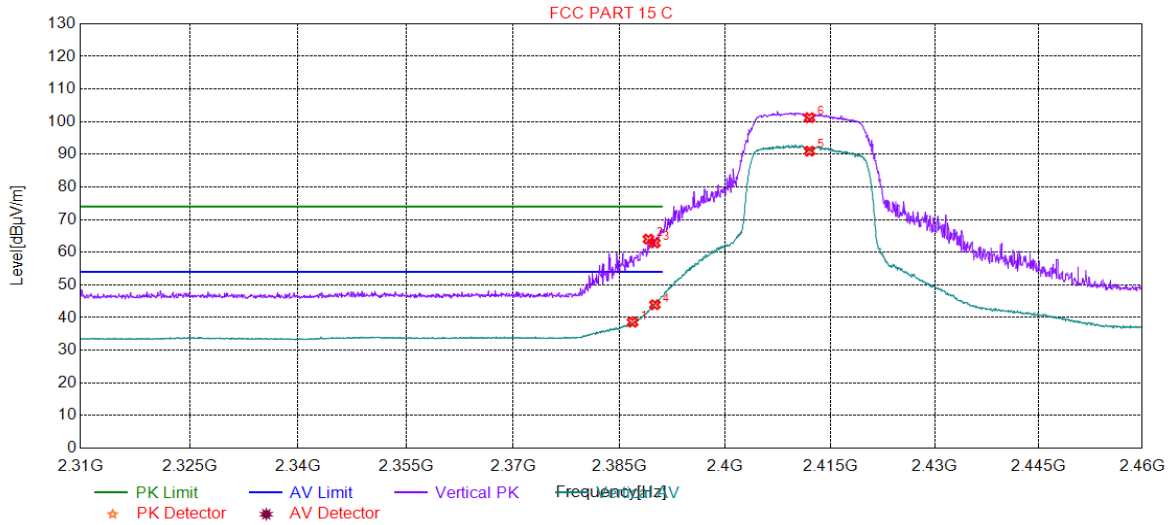
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4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.838	38.58	54.00	15.42	339	145	Vertical
2	2389.089	64.03	74.00	9.97	169	142	Vertical
3	2390.000	62.85	74.00	11.15	227	218	Vertical
4	2390.000	43.95	54.00	10.05	226	145	Vertical
5	2412.000	90.98	0.00	-90.98	159	233	Vertical
6	2412.000	101.24	0.00	-101.24	246	229	Vertical

Final Data List

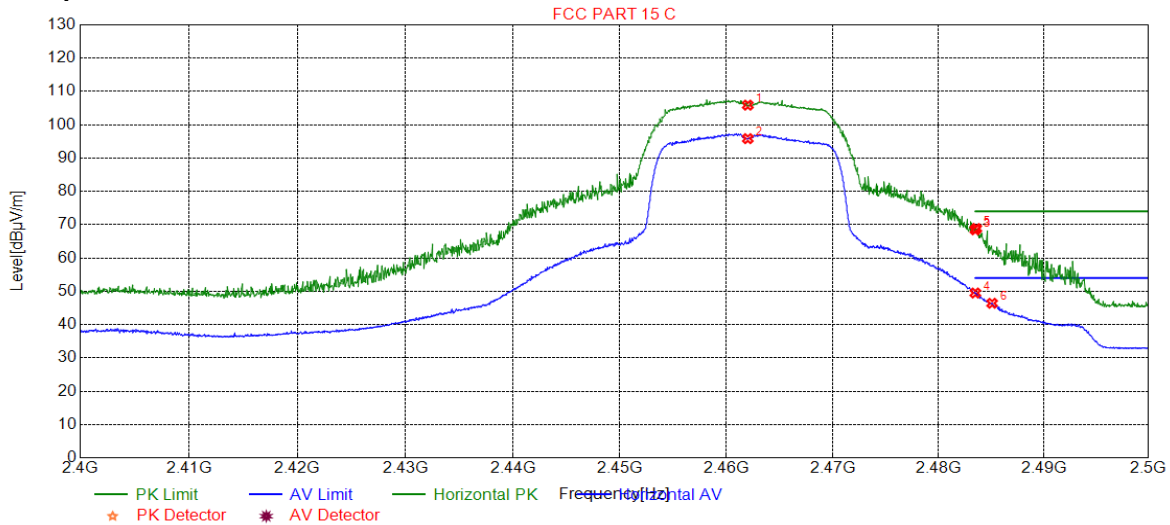


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4.10.1.7 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	105.89	0.00	-105.89	343	351	Horizontal
2	2462.000	95.84	0.00	-95.84	313	355	Horizontal
3	2483.500	68.46	74.00	5.54	232	336	Horizontal
4	2483.500	49.51	54.00	4.49	296	309	Horizontal
5	2483.591	68.89	74.00	5.11	171	302	Horizontal
6	2485.092	46.43	54.00	7.57	176	351	Horizontal

Final Data List



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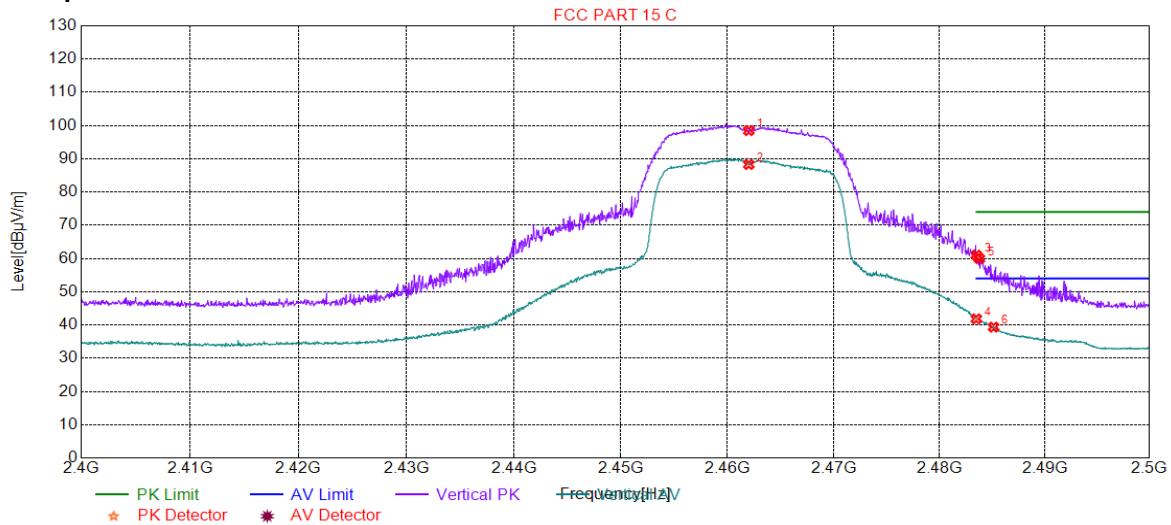
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4.10.1.8 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	98.47	0.00	-98.47	119	208	Vertical
2	2462.000	88.29	0.00	-88.29	345	137	Vertical
3	2483.500	61.04	74.00	12.96	216	137	Vertical
4	2483.500	41.87	54.00	12.13	109	208	Vertical
5	2483.791	60.00	74.00	14.00	190	0	Vertical
6	2485.142	39.39	54.00	14.61	365	137	Vertical

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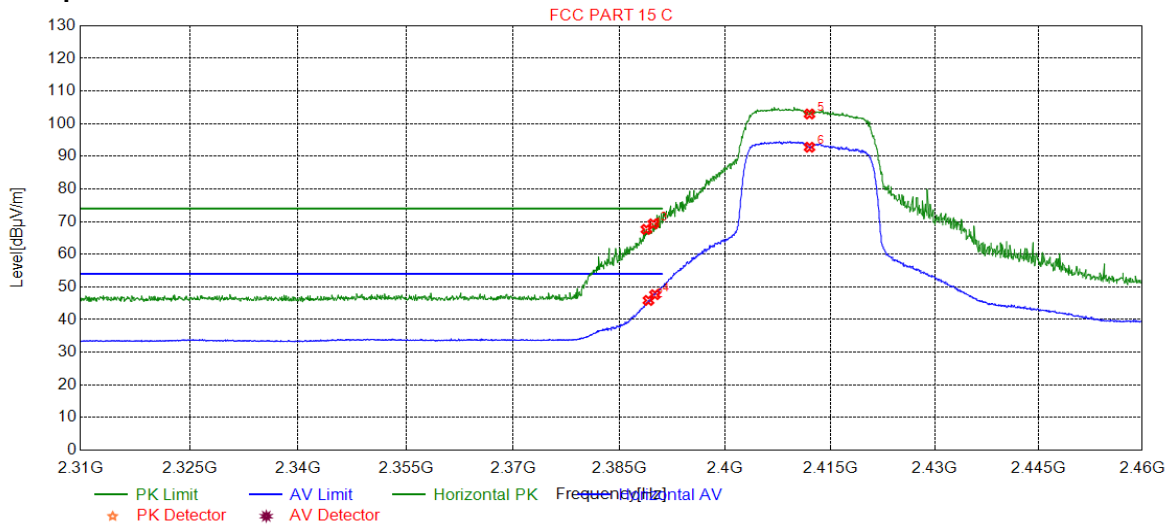
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4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.789	67.64	74.00	6.36	121	344	Horizontal
2	2389.089	45.87	54.00	8.13	103	337	Horizontal
3	2389.764	69.32	74.00	4.68	384	335	Horizontal
4	2390.000	47.64	54.00	6.36	252	344	Horizontal
5	2412.000	102.98	0.00	-102.98	184	341	Horizontal
6	2412.000	92.79	0.00	-92.79	217	318	Horizontal

Final Data List



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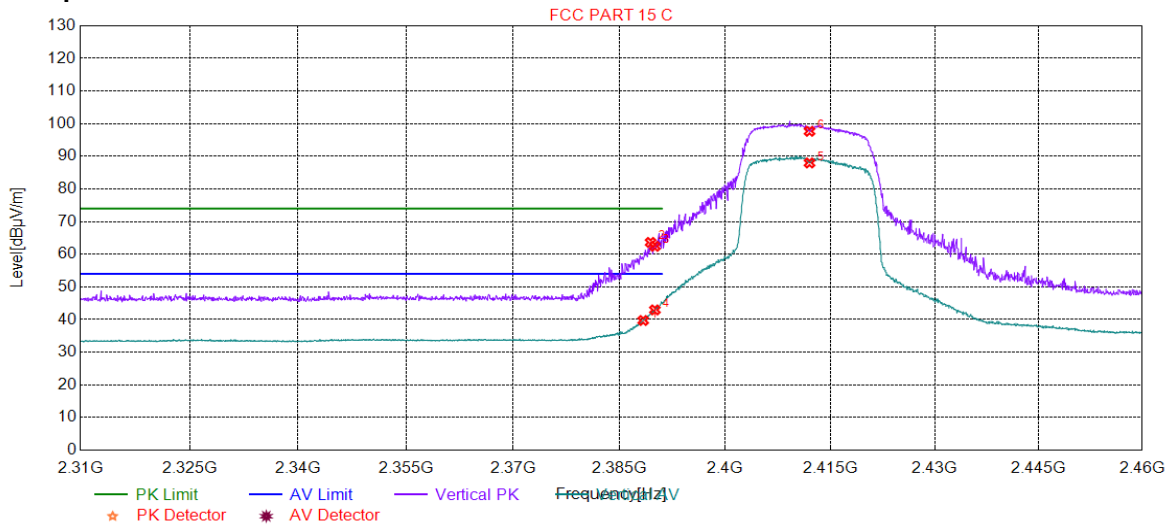
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4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.339	39.73	54.00	14.27	151	139	Vertical
2	2389.389	63.64	74.00	10.36	206	109	Vertical
3	2390.000	62.45	74.00	11.55	110	143	Vertical
4	2390.000	42.97	54.00	11.03	381	132	Vertical
5	2412.000	87.99	0.00	-87.99	157	135	Vertical
6	2412.000	97.68	0.00	-97.68	375	132	Vertical

Final Data List

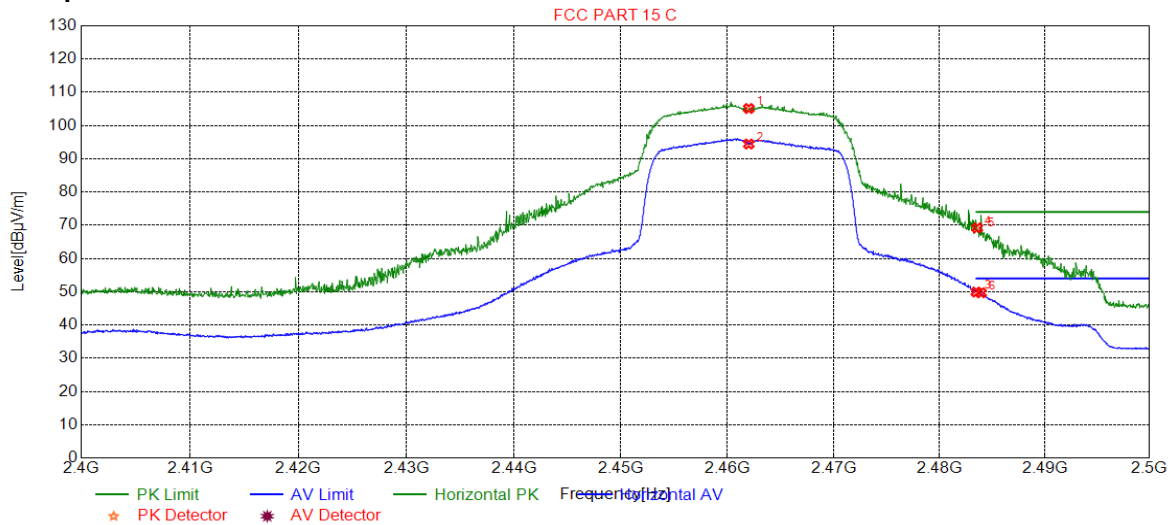


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4.10.1.11 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	105.13	0.00	-105.13	138	319	Horizontal
2	2462.000	94.45	0.00	-94.45	169	353	Horizontal
3	2483.500	49.95	54.00	4.05	248	304	Horizontal
4	2483.591	69.24	74.00	4.76	320	349	Horizontal
5	2483.841	68.81	74.00	5.19	380	356	Horizontal
6	2483.942	49.71	54.00	4.29	213	353	Horizontal

Final Data List



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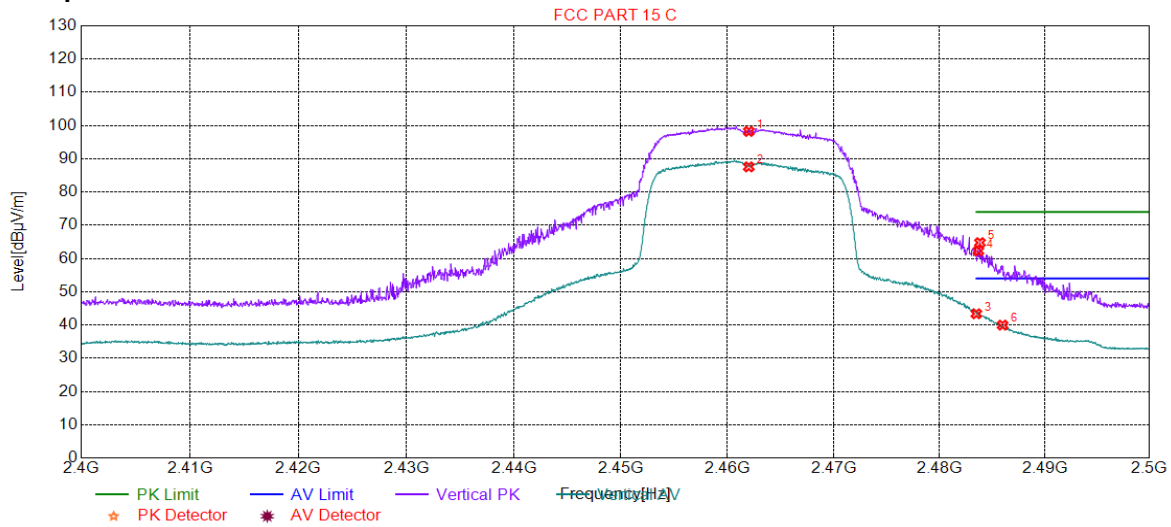
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4.10.1.12 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	98.22	0.00	-98.22	334	144	Vertical
2	2462.000	87.57	0.00	-87.57	254	137	Vertical
3	2483.500	43.41	54.00	10.59	344	201	Vertical
4	2483.691	62.29	74.00	11.71	227	96	Vertical
5	2483.841	64.78	74.00	9.22	254	141	Vertical
6	2485.993	39.99	54.00	14.01	228	201	Vertical

Final Data List



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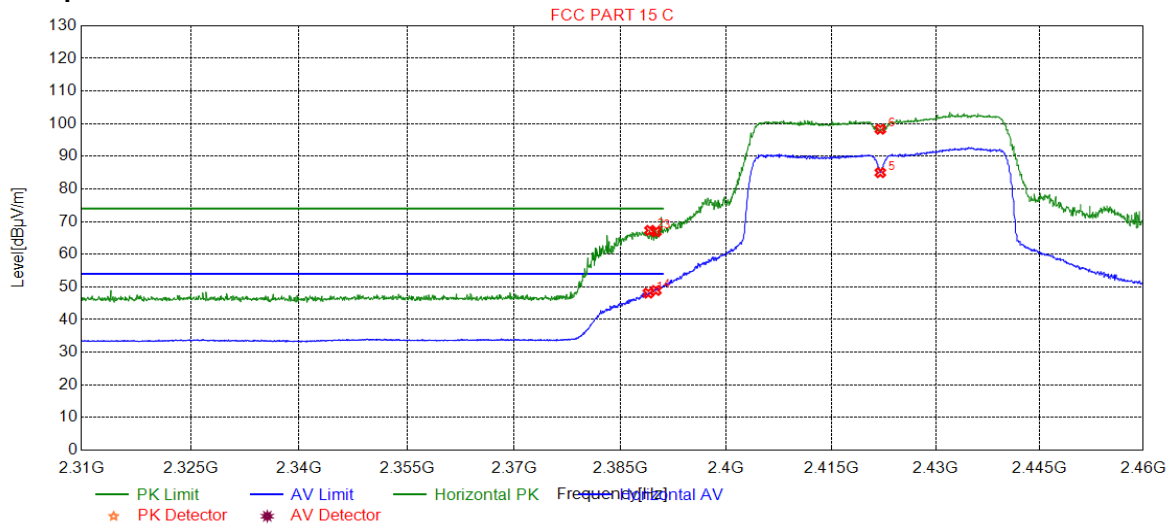
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4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.939	48.11	54.00	5.89	217	349	Horizontal
2	2389.164	67.33	74.00	6.67	125	66	Horizontal
3	2390.000	66.92	74.00	7.08	258	334	Horizontal
4	2390.000	48.94	54.00	5.06	309	331	Horizontal
5	2422.000	85.01	0.00	-85.01	180	334	Horizontal
6	2442.000	98.32	0.00	-98.32	192	330	Horizontal

Final Data List

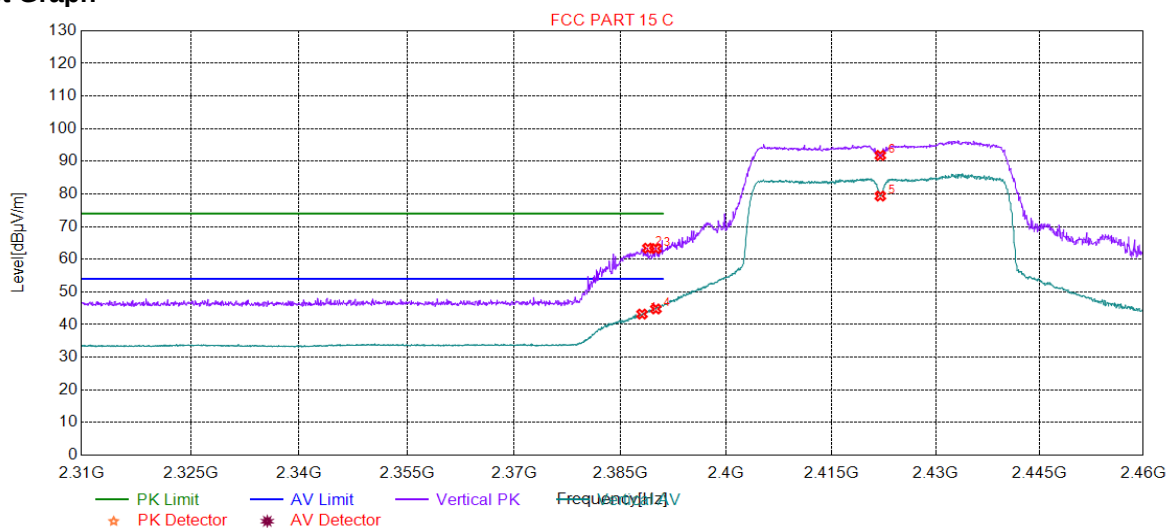


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4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.039	43.22	54.00	10.78	180	144	Vertical
2	2388.864	63.42	74.00	10.58	299	208	Vertical
3	2390.000	63.30	74.00	10.70	184	129	Vertical
4	2390.000	44.79	54.00	9.21	249	136	Vertical
5	2422.000	79.37	0.00	-79.37	182	212	Vertical
6	2422.000	91.83	0.00	-91.83	370	208	Vertical

Final Data List

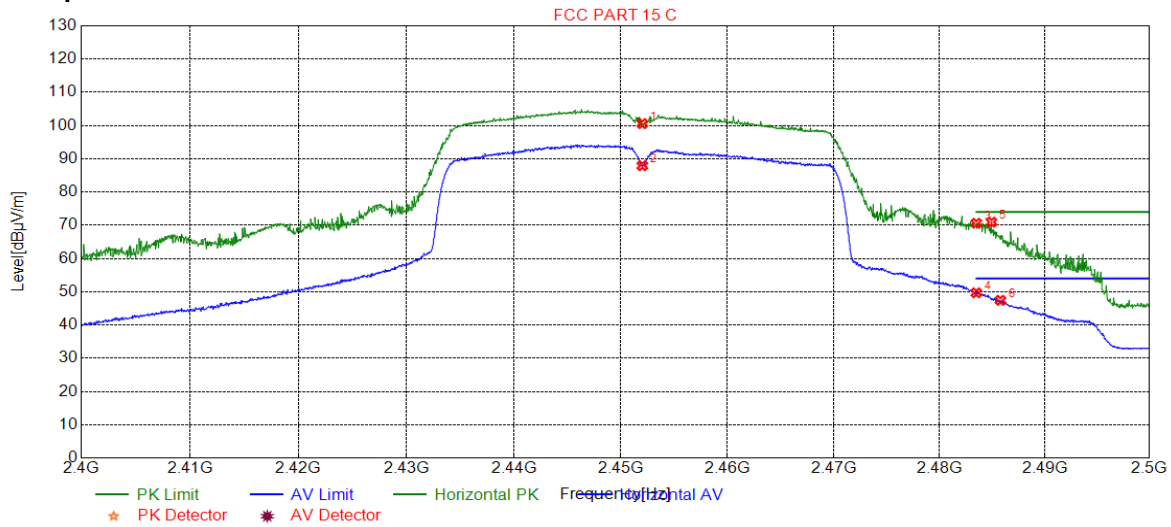


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4.10.1.15 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	100.58	0.00	-100.58	204	320	Horizontal
2	2452.000	87.93	0.00	-87.93	297	314	Horizontal
3	2483.500	70.62	74.00	3.38	260	314	Horizontal
4	2483.500	49.70	54.00	4.30	290	352	Horizontal
5	2484.942	70.96	74.00	3.04	367	296	Horizontal
6	2485.792	47.45	54.00	6.55	207	311	Horizontal

Final Data List

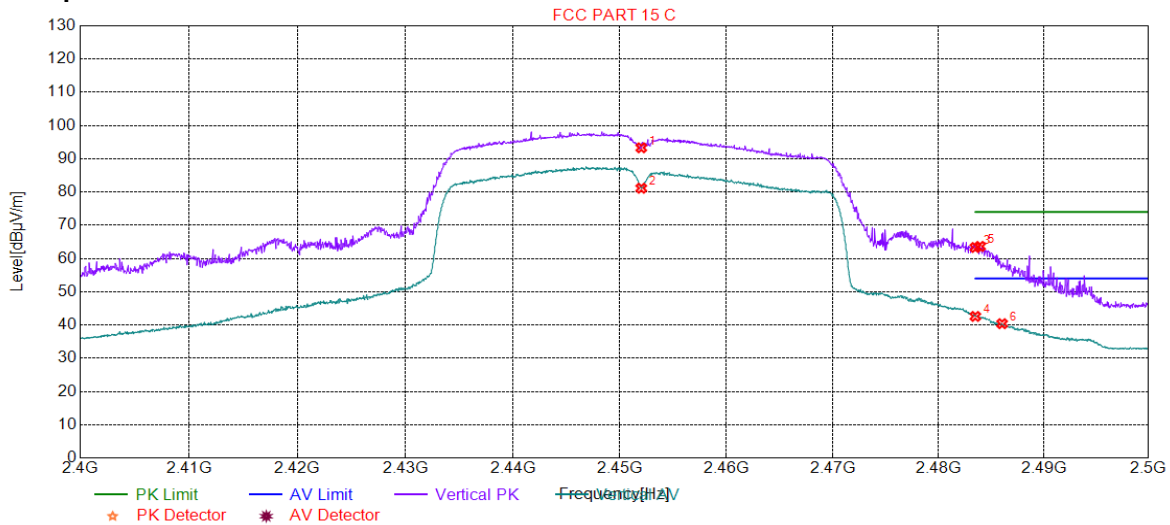


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4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	93.31	0.00	-93.31	309	219	Vertical
2	2452.000	81.15	0.00	-81.15	282	219	Vertical
3	2483.500	63.33	74.00	10.67	126	219	Vertical
4	2483.500	42.60	54.00	11.40	160	211	Vertical
5	2483.942	63.66	74.00	10.34	362	215	Vertical
6	2486.043	40.42	54.00	13.58	364	141	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)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Temperature test	$\pm 1^\circ\text{C}$
5	Humidity test	$\pm 3\%$
6	DC and low frequency voltages	$\pm 0.5\%$

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (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
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

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE Setup Photos.



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DTS Bandwidth Test Result

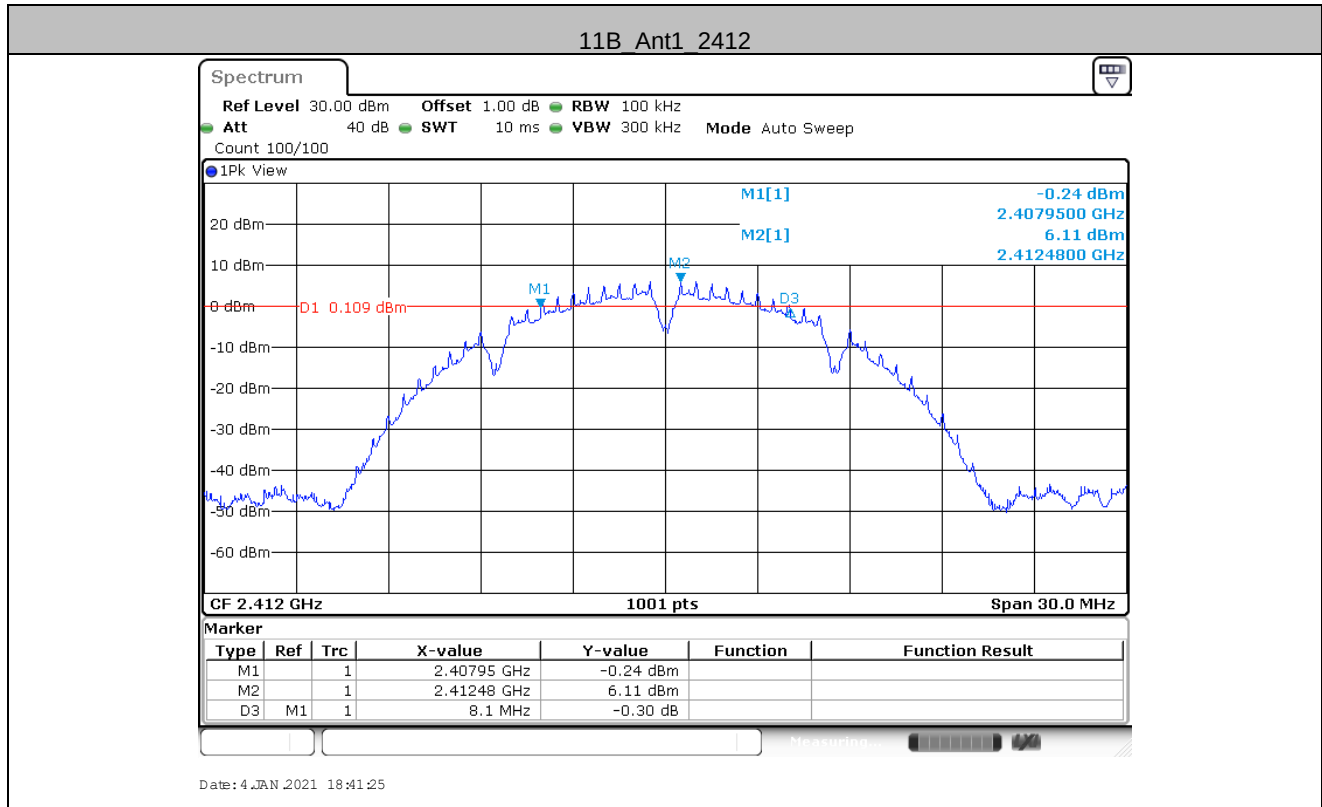
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.100	2407.950	2416.050	0.5	PASS
		2437	8.100	2432.950	2441.050	0.5	PASS
		2462	8.100	2457.950	2466.050	0.5	PASS
11G	Ant1	2412	15.120	2404.410	2419.530	0.5	PASS
		2437	15.390	2429.410	2444.800	0.5	PASS
		2462	15.120	2454.470	2469.590	0.5	PASS
11N20SISO	Ant1	2412	15.180	2404.410	2419.590	0.5	PASS
		2437	15.150	2429.440	2444.590	0.5	PASS
		2462	15.510	2454.080	2469.590	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.360	2439.640	0.5	PASS
		2437	35.280	2419.360	2454.640	0.5	PASS
		2452	35.280	2434.360	2469.640	0.5	PASS



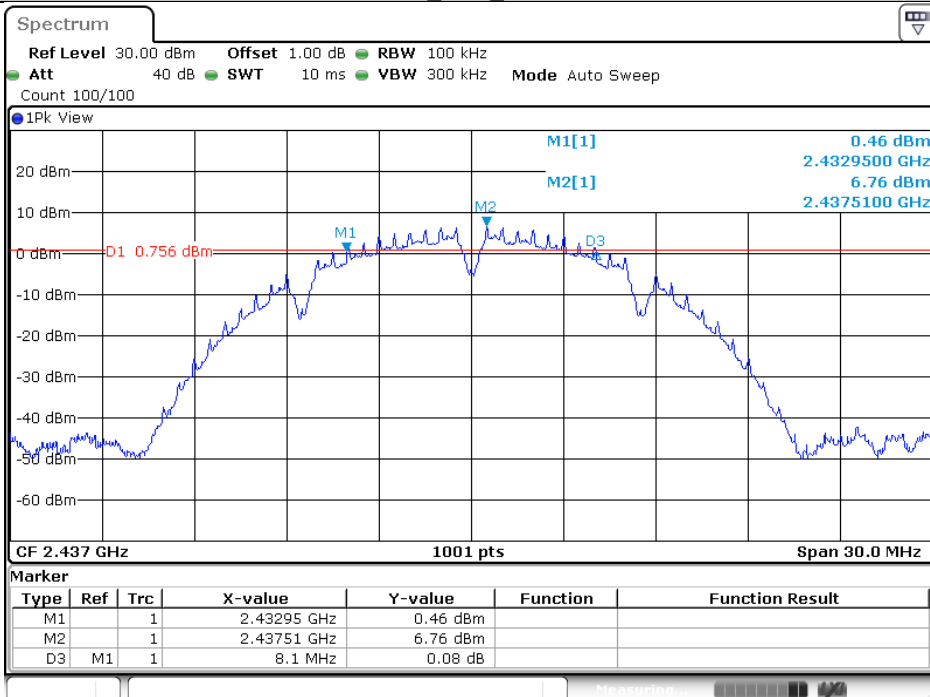
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Test Graphs

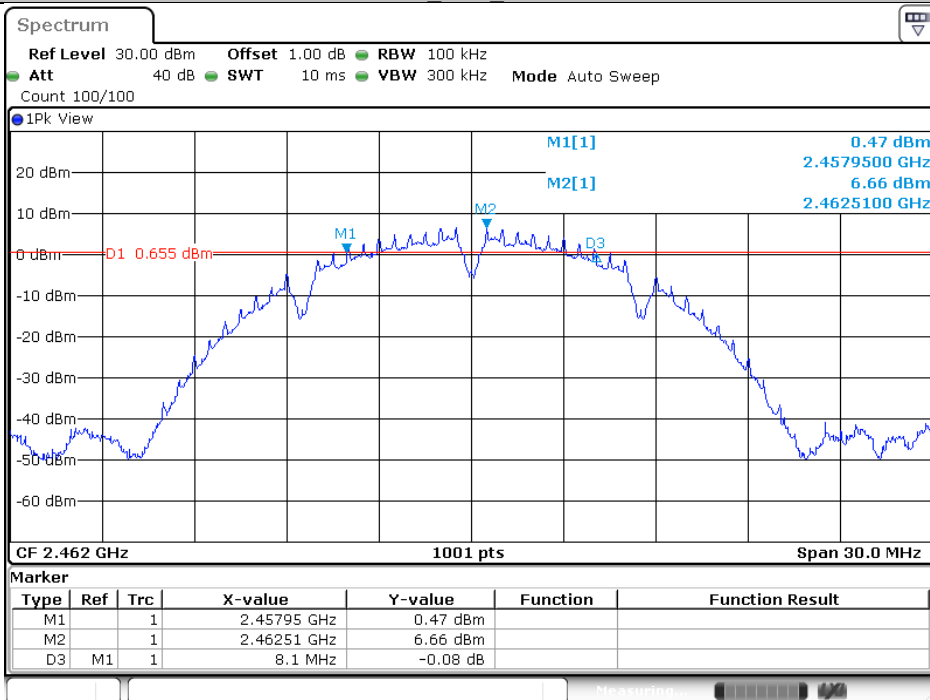


11B Ant1 2437



Date: 4 JAN 2021 18:46:07

11B Ant1 2462



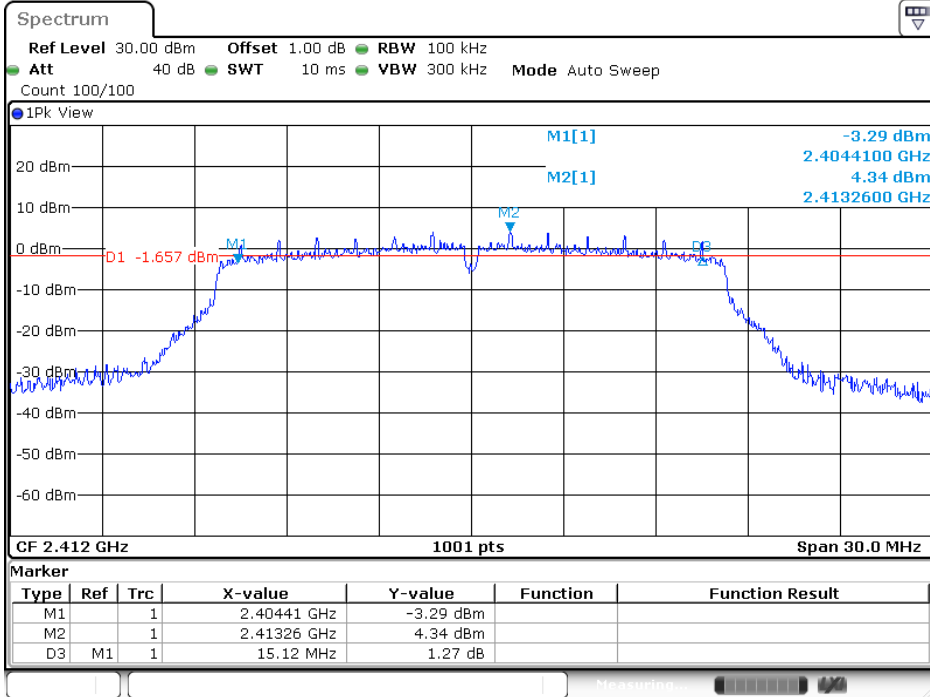
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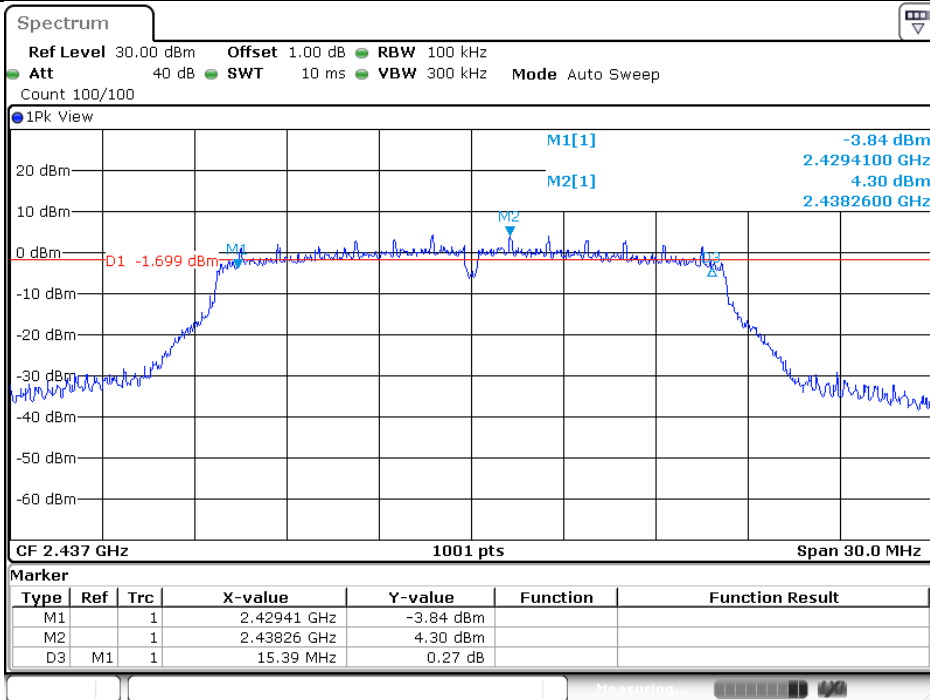
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11G Ant1 2412



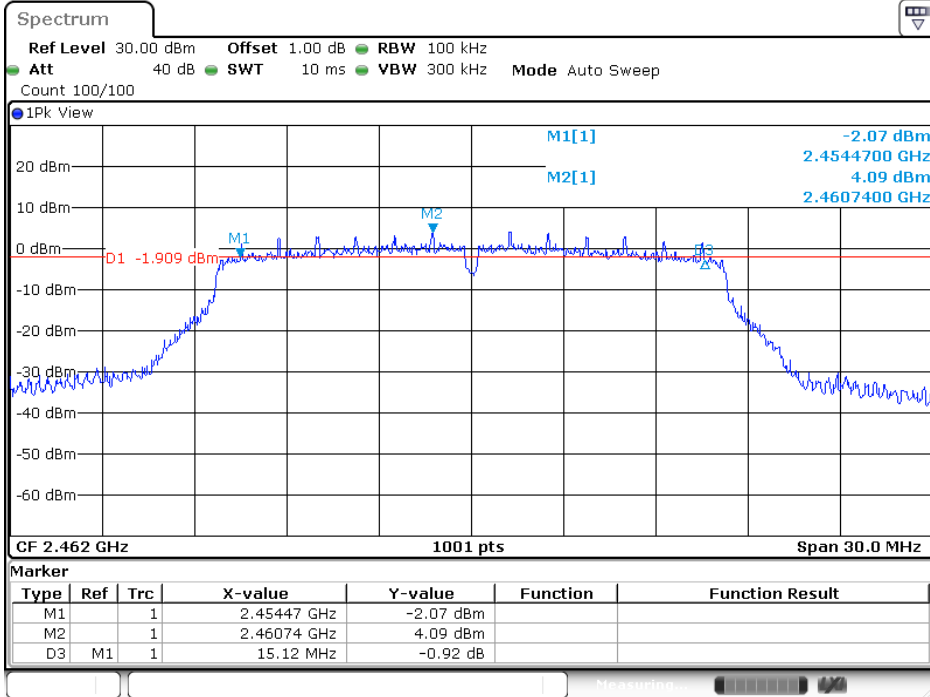
11G Ant1 2437



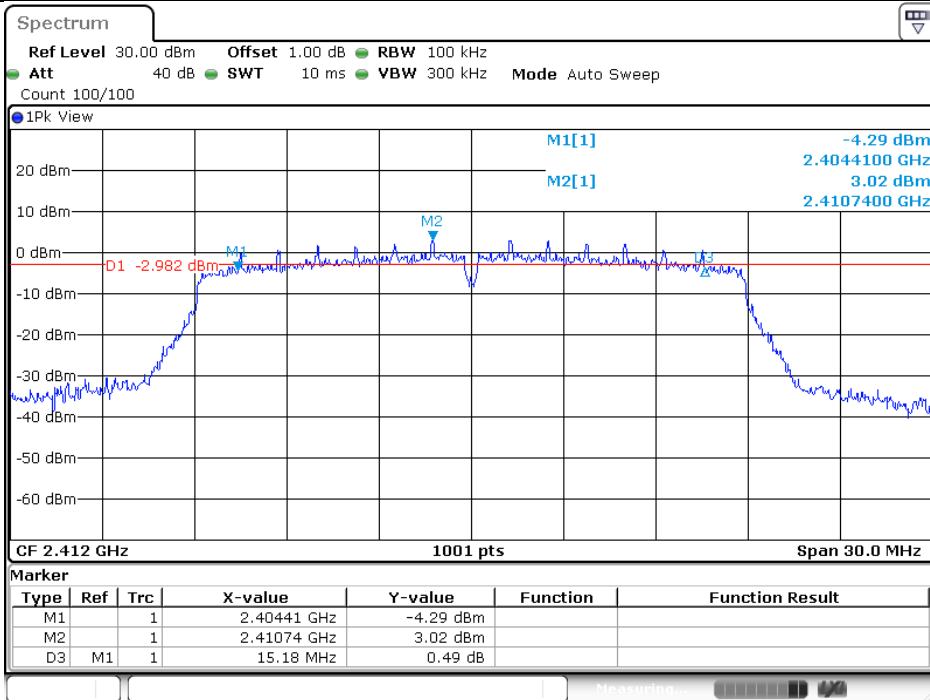
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11G Ant1 2462



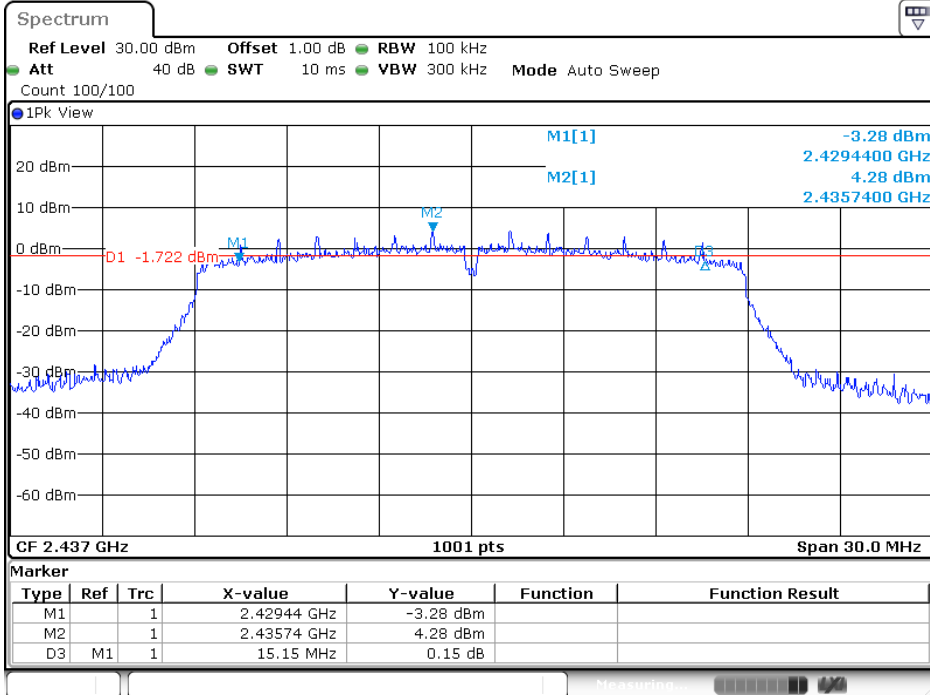
11N20SISO Ant1 2412



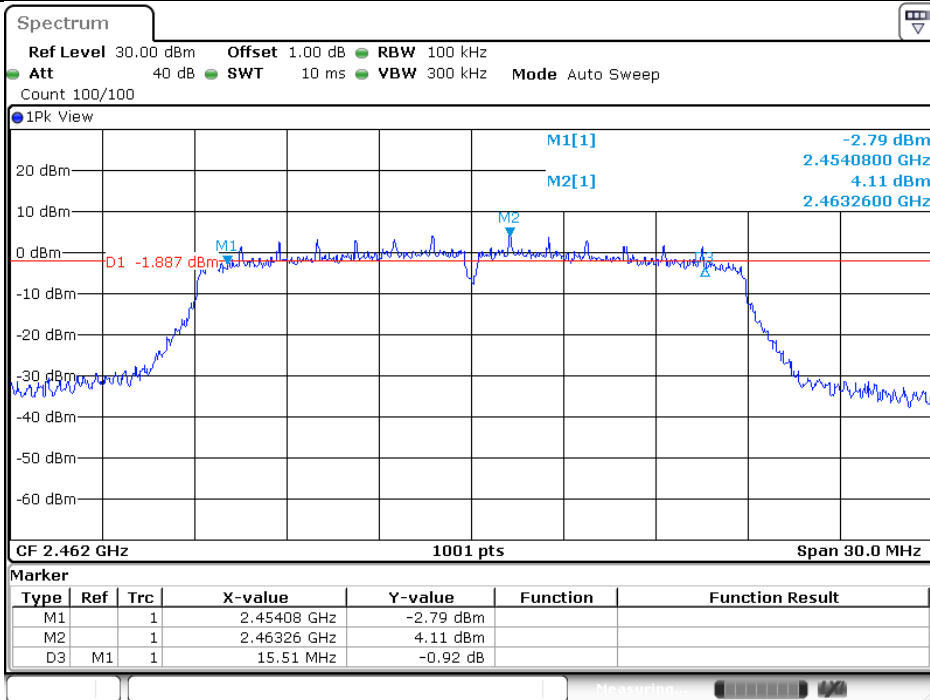
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11N20SISO Ant1 2437



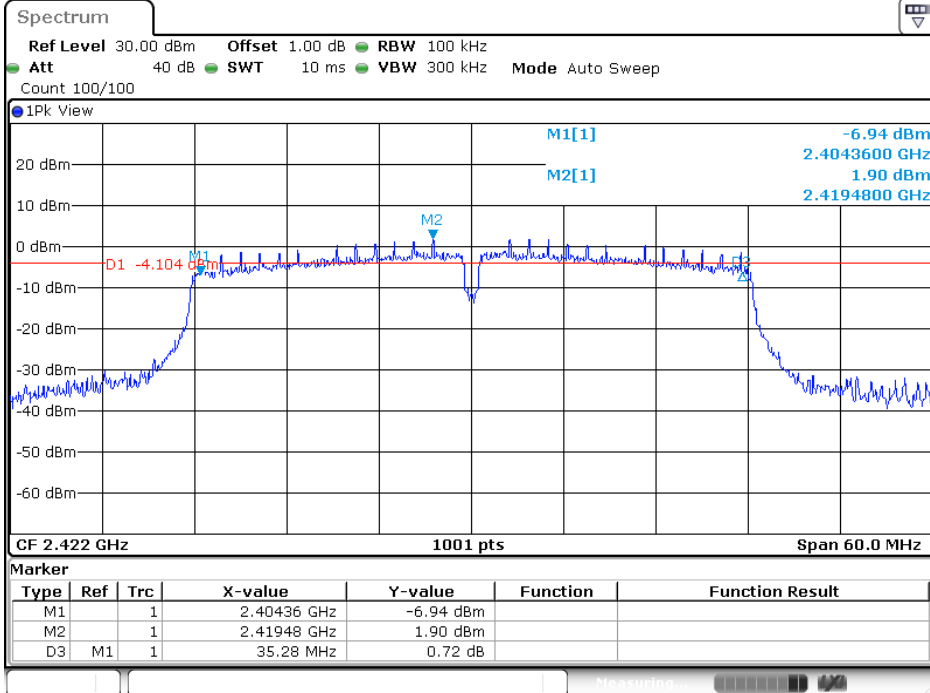
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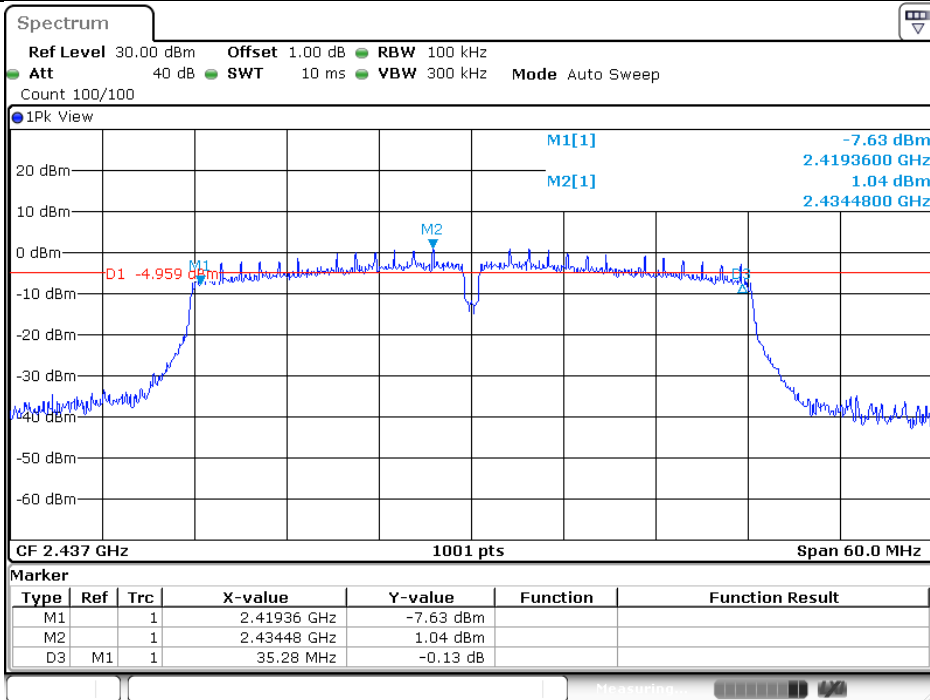
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11N40SISO Ant1 2422

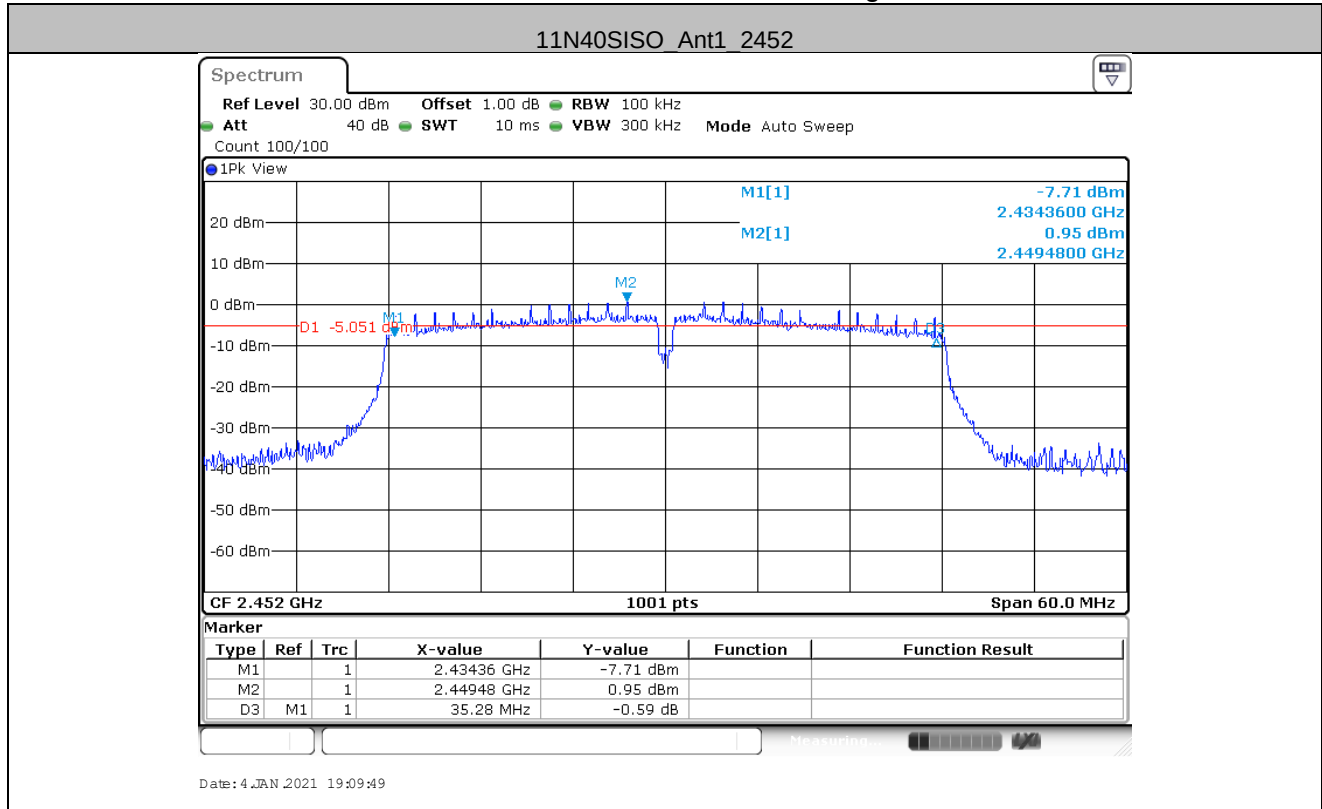


11N40SISO Ant1 2437



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Occupied Channel Bandwidth Test Result

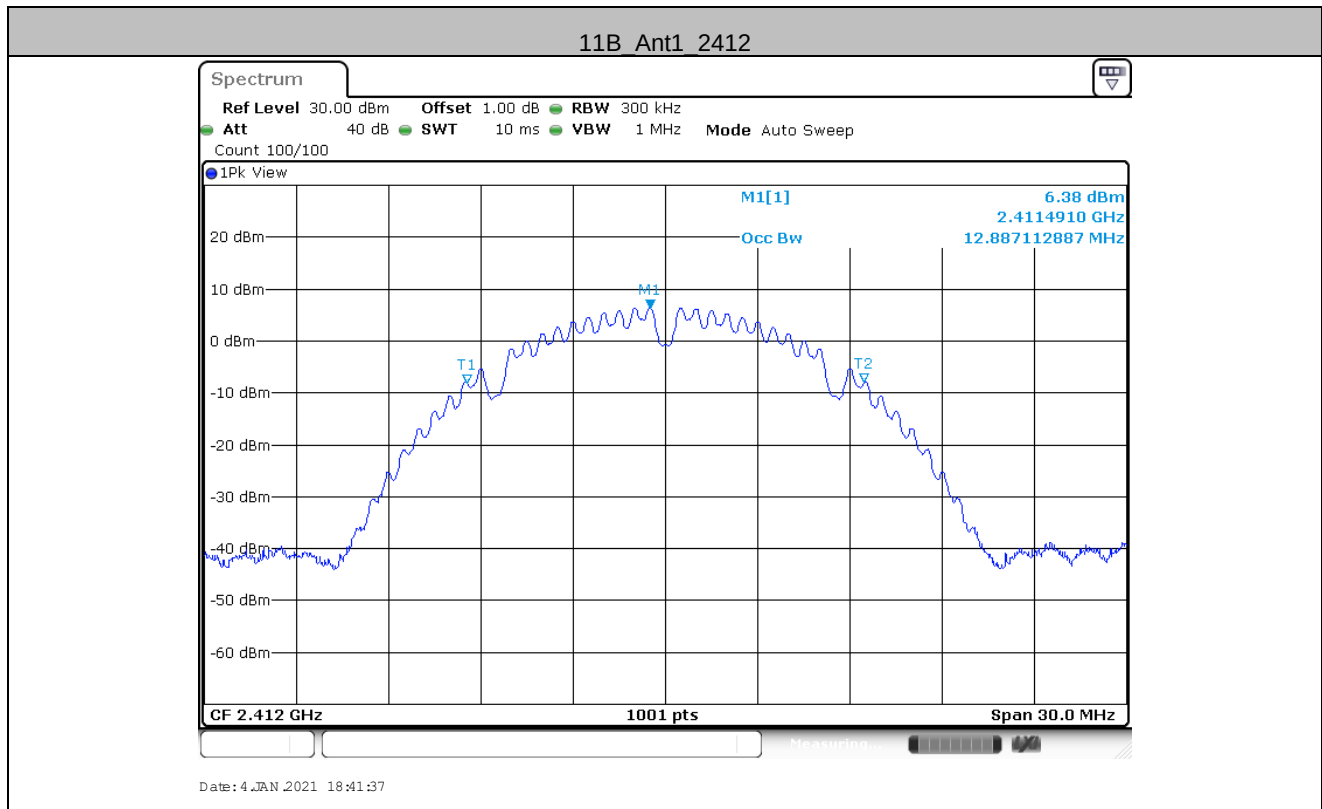
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.887	2405.556	2418.444	---	PASS
		2437	12.887	2430.556	2443.444	---	PASS
		2462	12.947	2455.497	2468.444	---	PASS
11G	Ant1	2412	16.813	2403.608	2420.422	---	PASS
		2437	16.783	2428.608	2445.392	---	PASS
		2462	16.813	2453.578	2470.392	---	PASS
11N20SISO	Ant1	2412	17.832	2403.099	2420.931	---	PASS
		2437	17.802	2428.069	2445.871	---	PASS
		2462	17.832	2453.069	2470.901	---	PASS
11N40SISO	Ant1	2422	36.683	2403.718	2440.402	---	PASS
		2437	36.563	2418.718	2455.282	---	PASS
		2452	36.623	2433.658	2470.282	---	PASS



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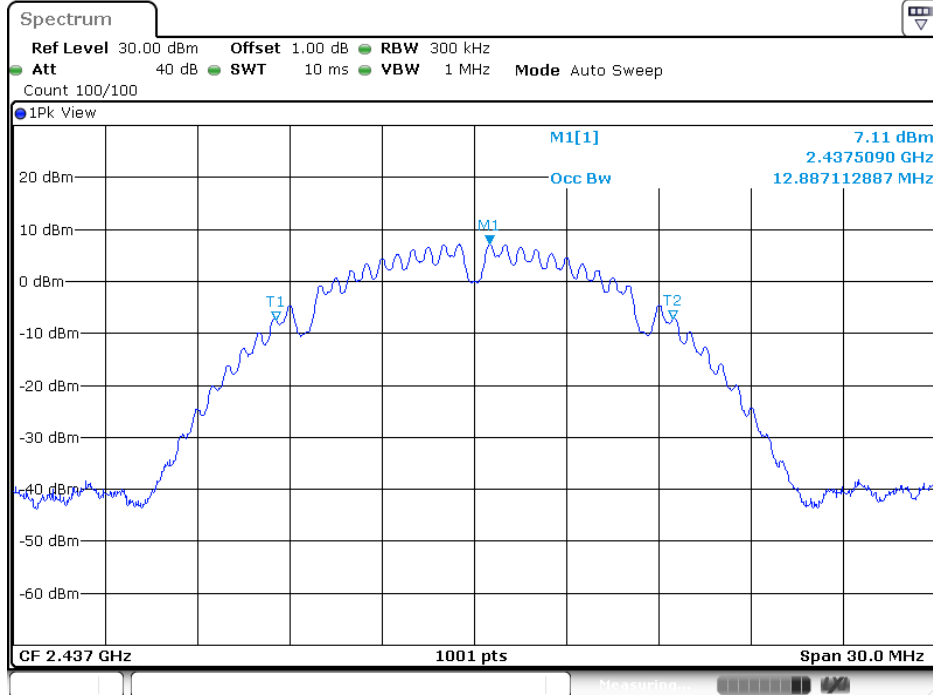
Test Graphs



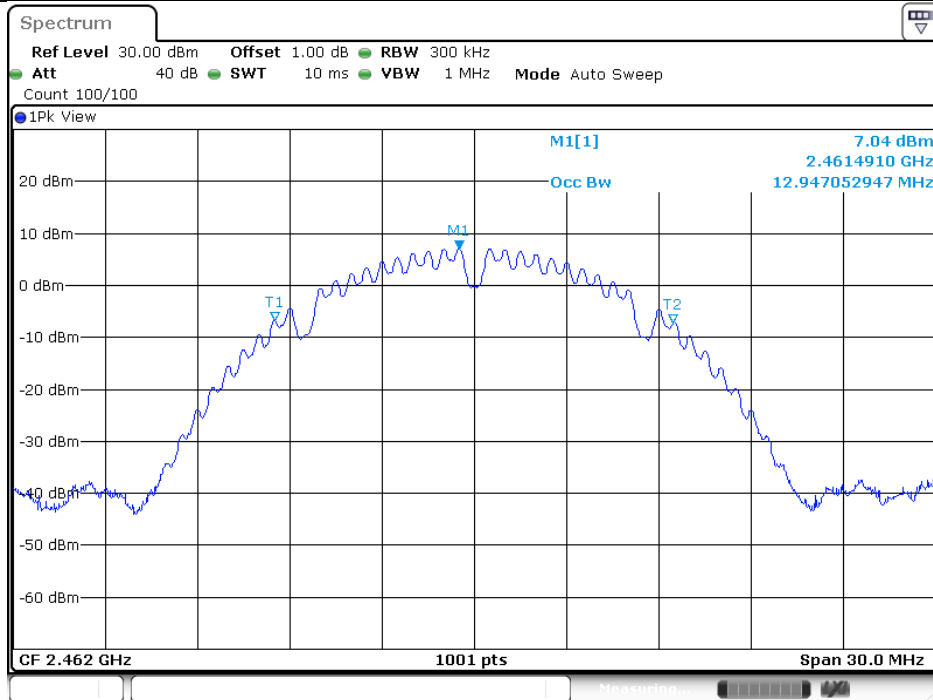
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11B Ant1 2437



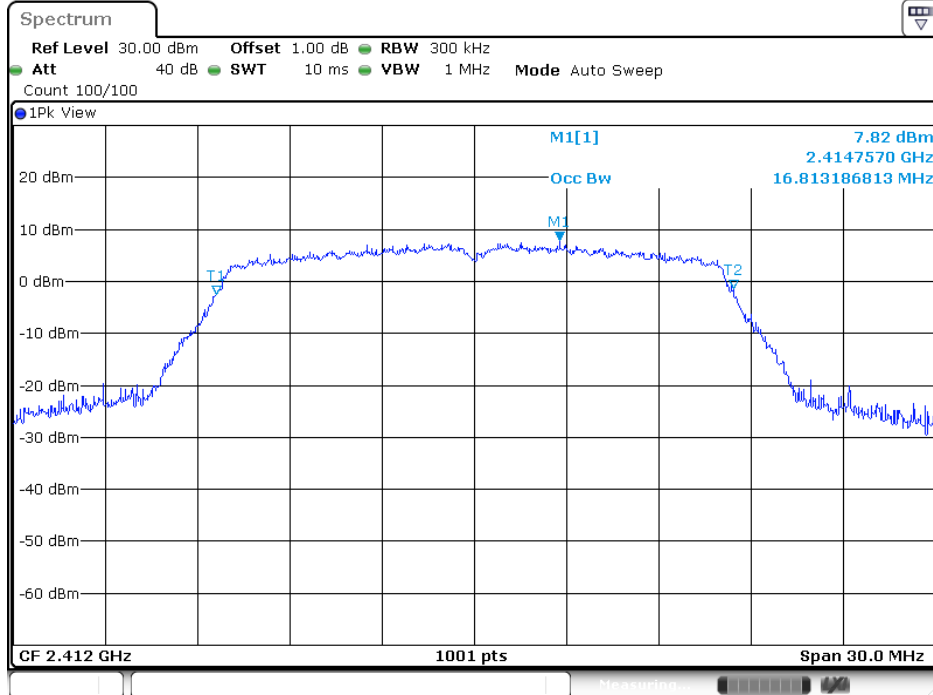
11B Ant1 2462



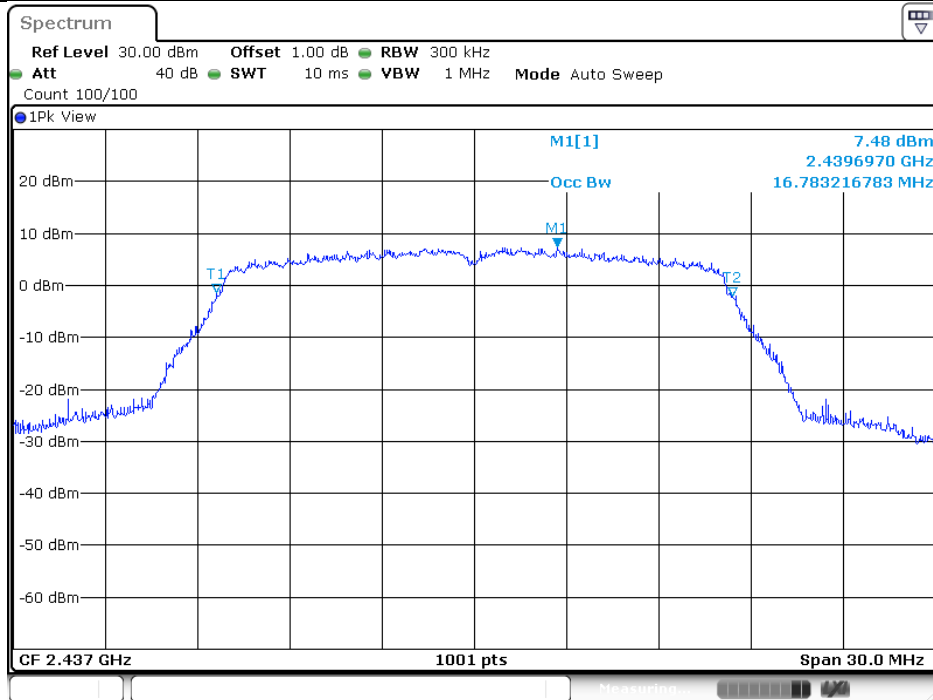
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11G Ant1 2412

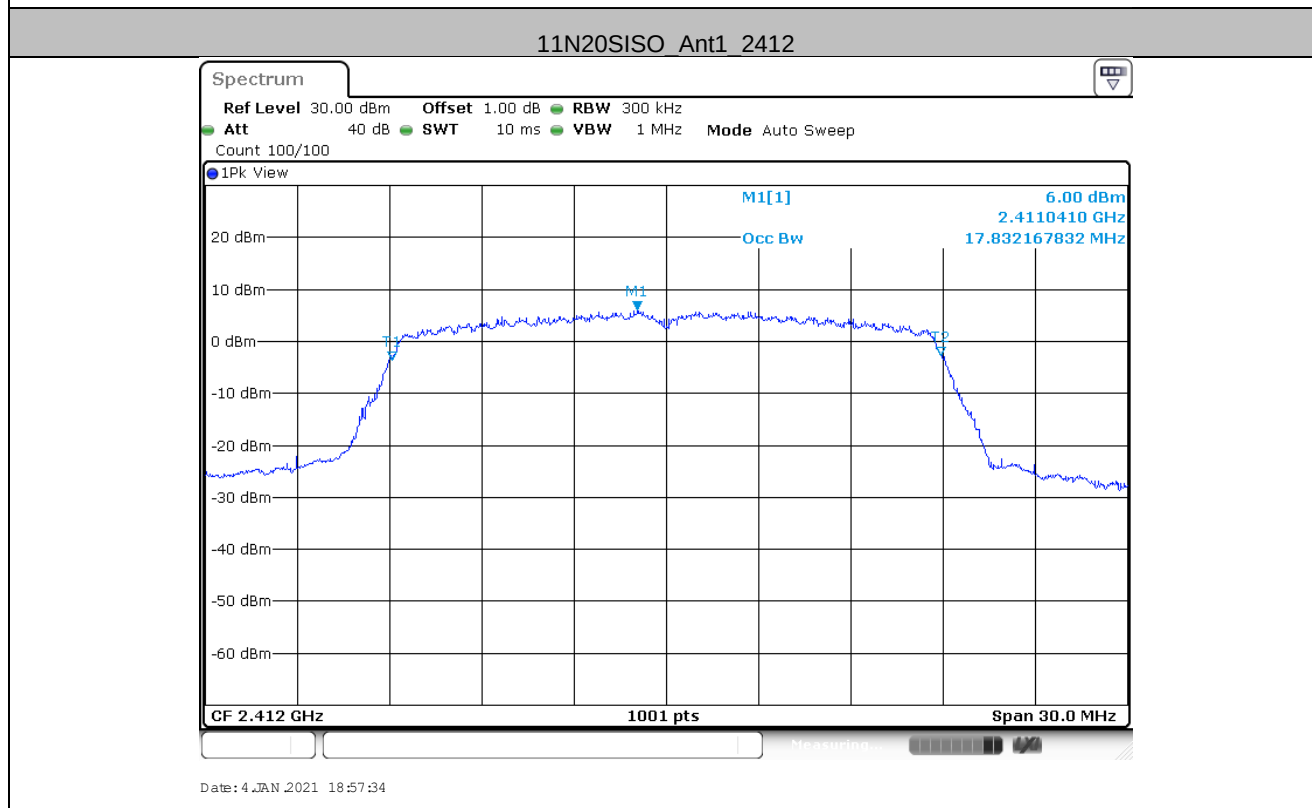
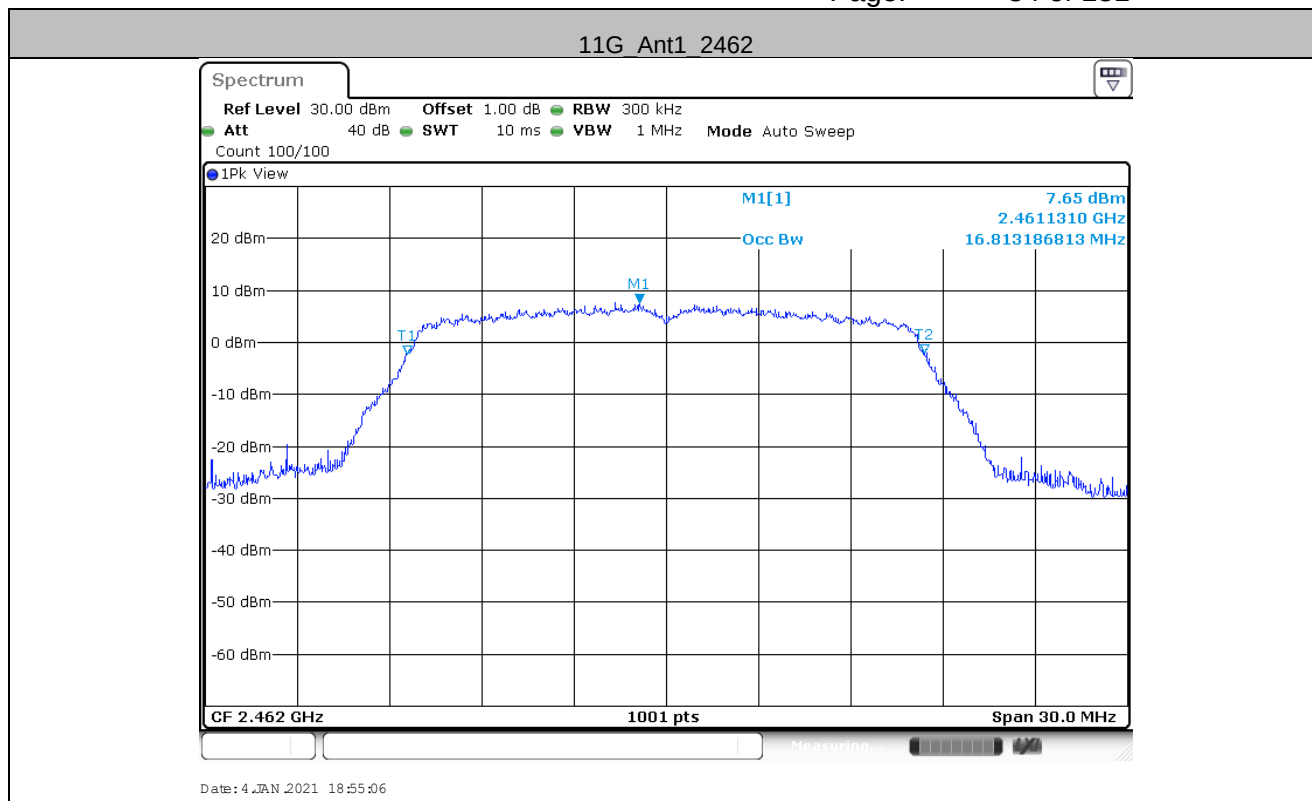


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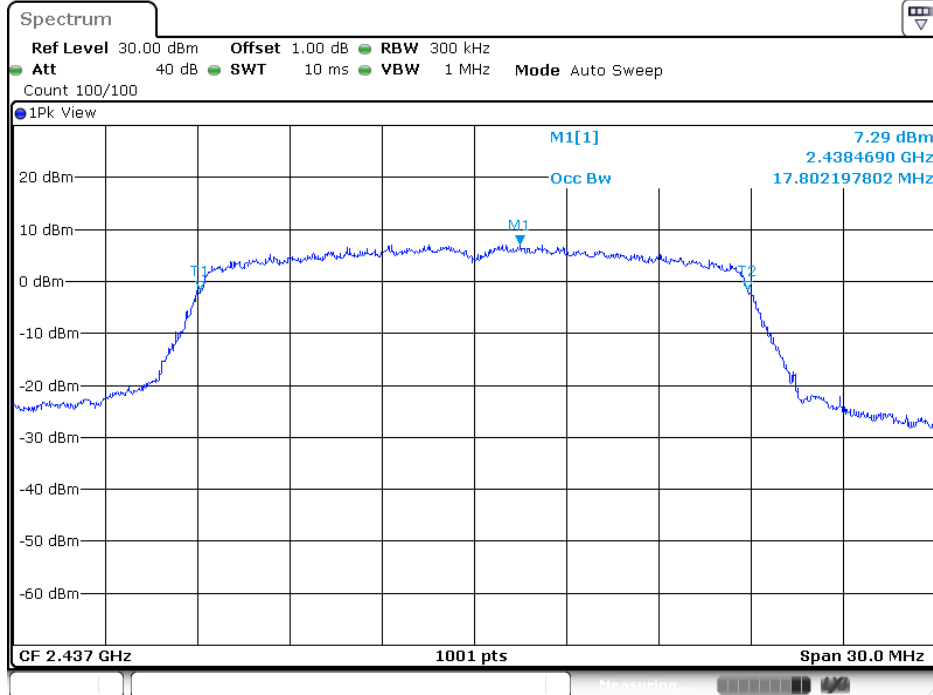
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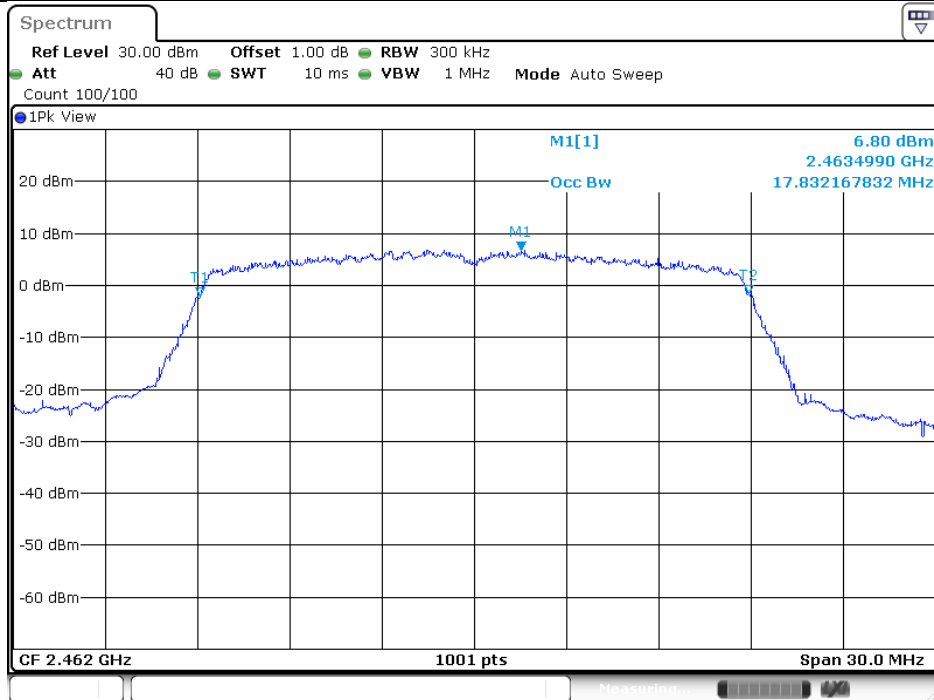
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11N20SISO Ant1 2437



Date: 4 JAN 2021 19:00:26

11N20SISO Ant1 2462



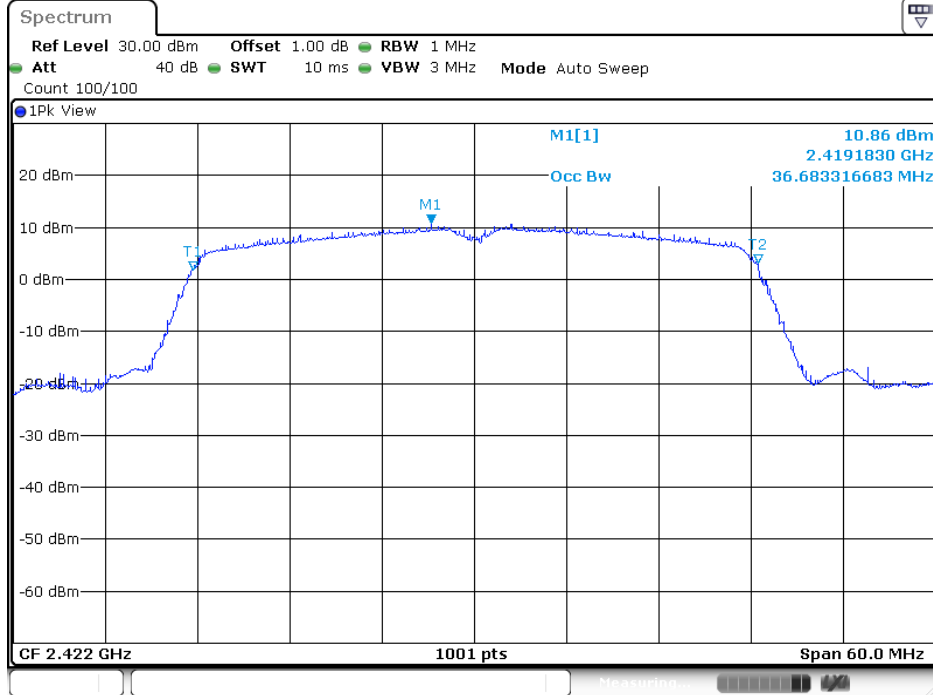
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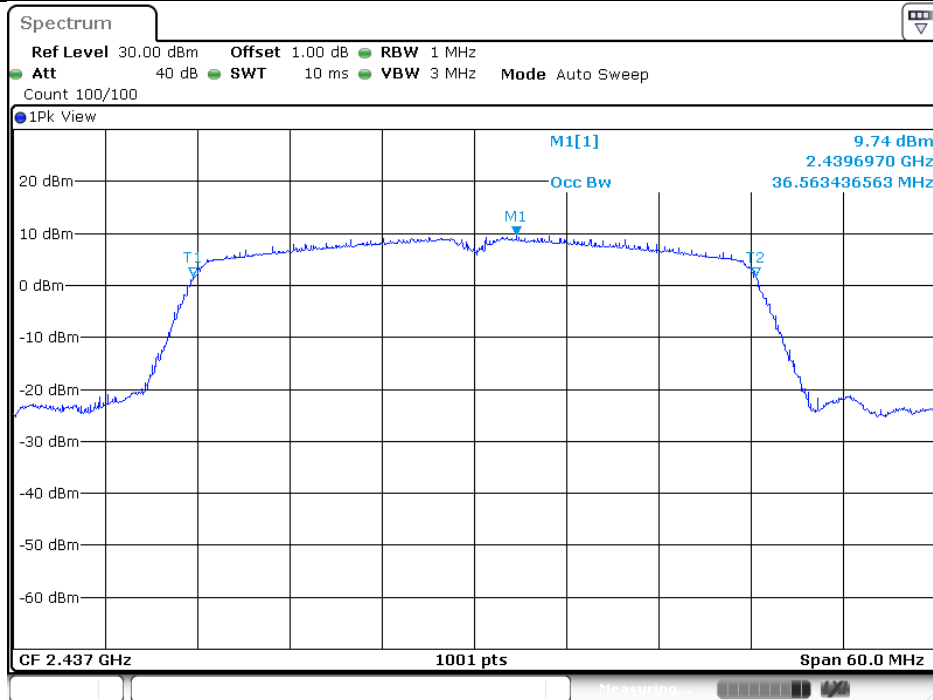
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11N40SISO Ant1 2422

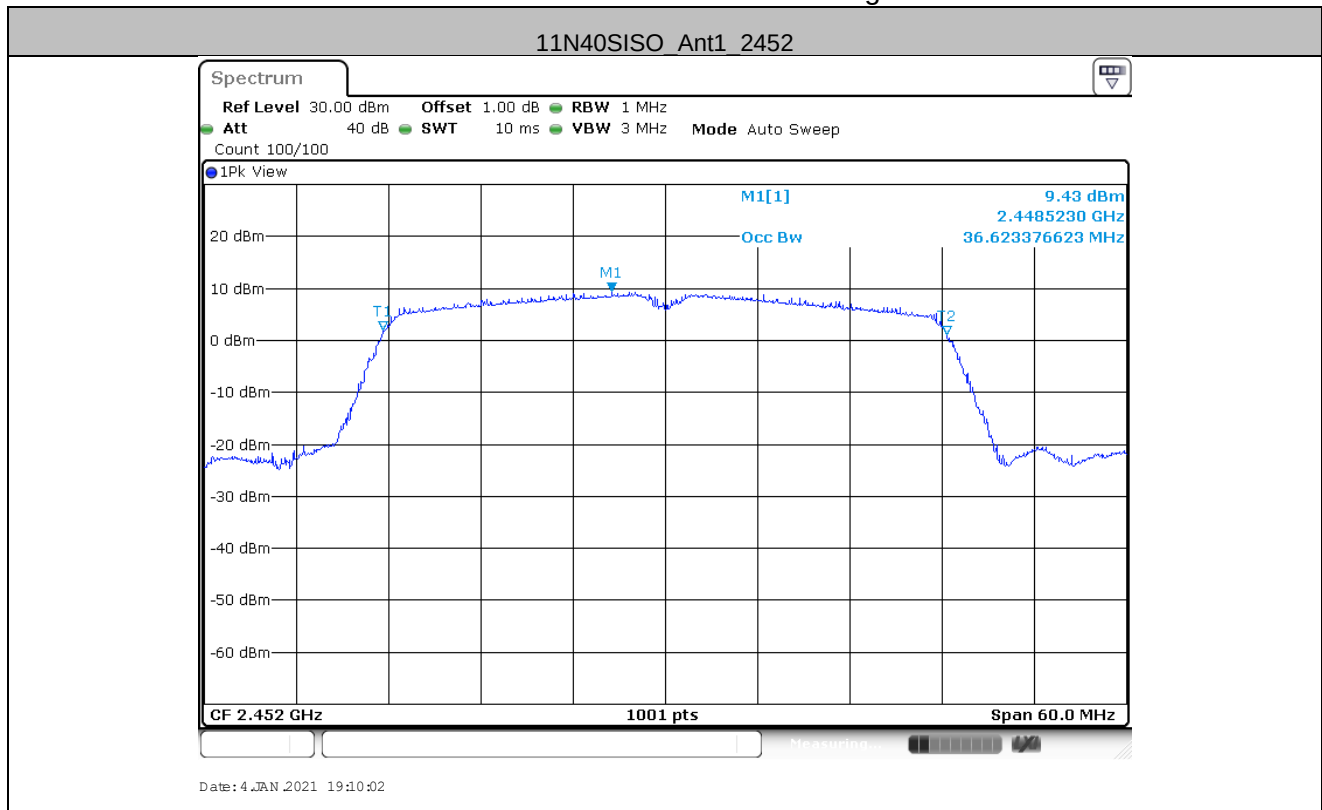


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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Verdict
11B	Ant1	2412	14.77	PASS
		2437	14.93	PASS
		2462	14.92	PASS
11G	Ant1	2412	14.90	PASS
		2437	14.90	PASS
		2462	14.81	PASS
11N20SISO	Ant1	2412	14.77	PASS
		2437	14.78	PASS
		2462	14.66	PASS
11N40SISO	Ant1	2422	14.03	PASS
		2437	14.22	PASS
		2452	14.08	PASS



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Maximum power spectral density

Test Result

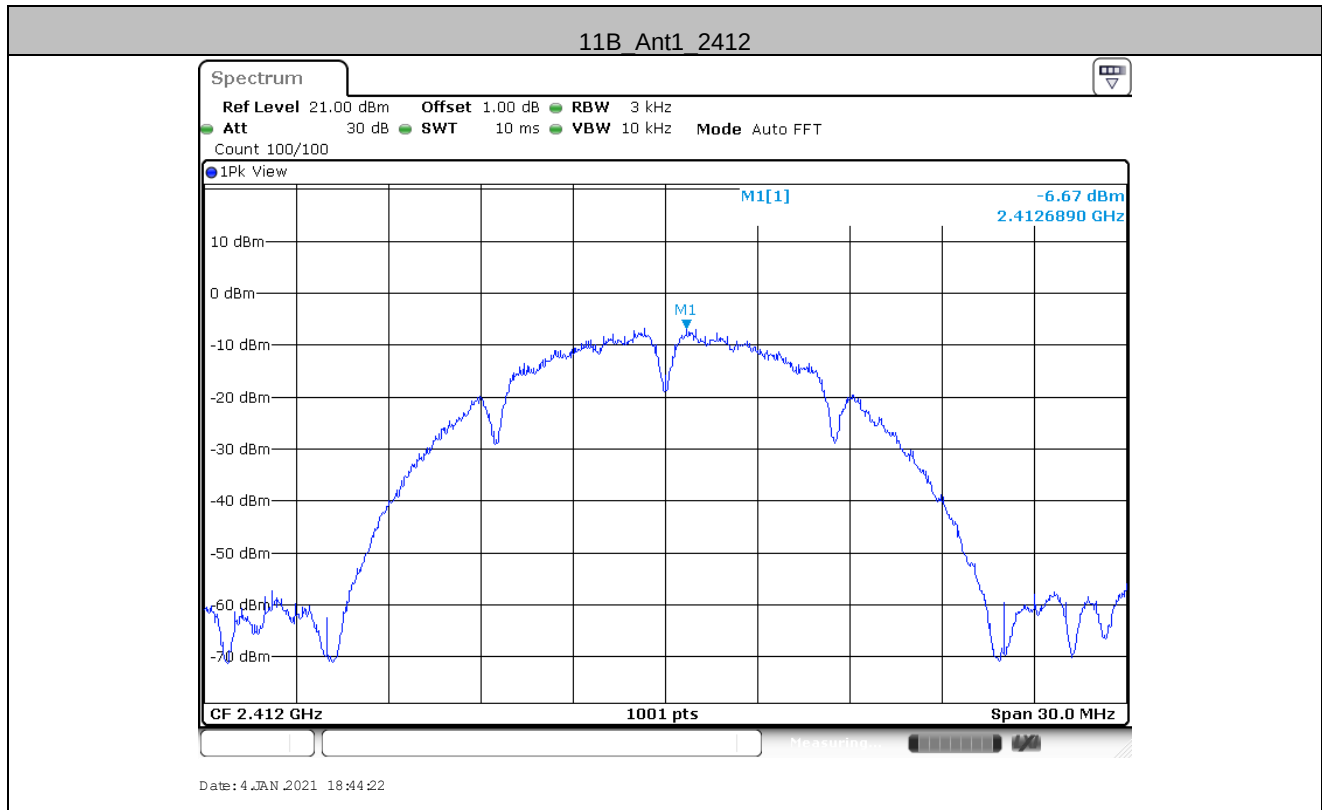
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.67	<=8	PASS
		2437	-6.53	<=8	PASS
		2462	-6	<=8	PASS
11G	Ant1	2412	-8.63	<=8	PASS
		2437	-8.08	<=8	PASS
		2462	-8.17	<=8	PASS
11N20SISO	Ant1	2412	-9.2	<=8	PASS
		2437	-8.56	<=8	PASS
		2462	-9.2	<=8	PASS
11N40SISO	Ant1	2422	-12.67	<=8	PASS
		2437	-12.82	<=8	PASS
		2452	-13.37	<=8	PASS



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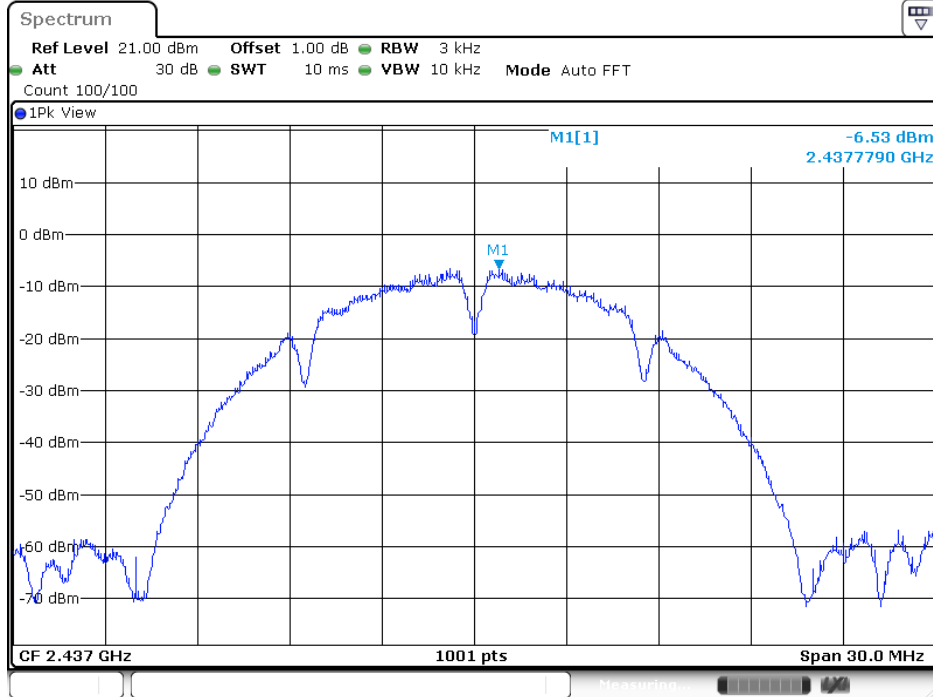
Test Graphs



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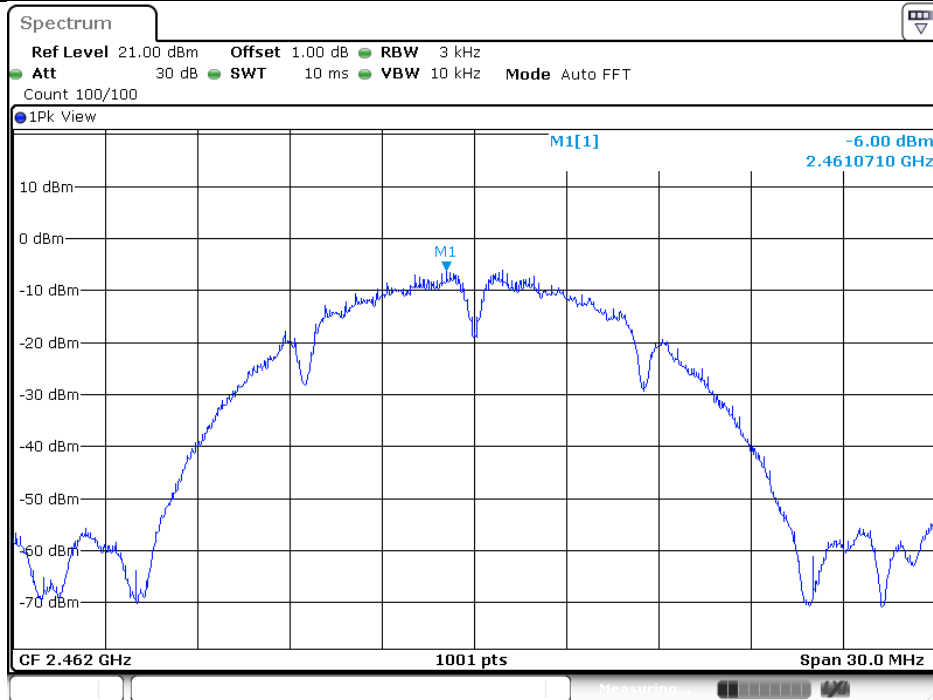
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11B Ant1 2437



Date: 4 JAN 2021 18:46:45

11B Ant1 2462

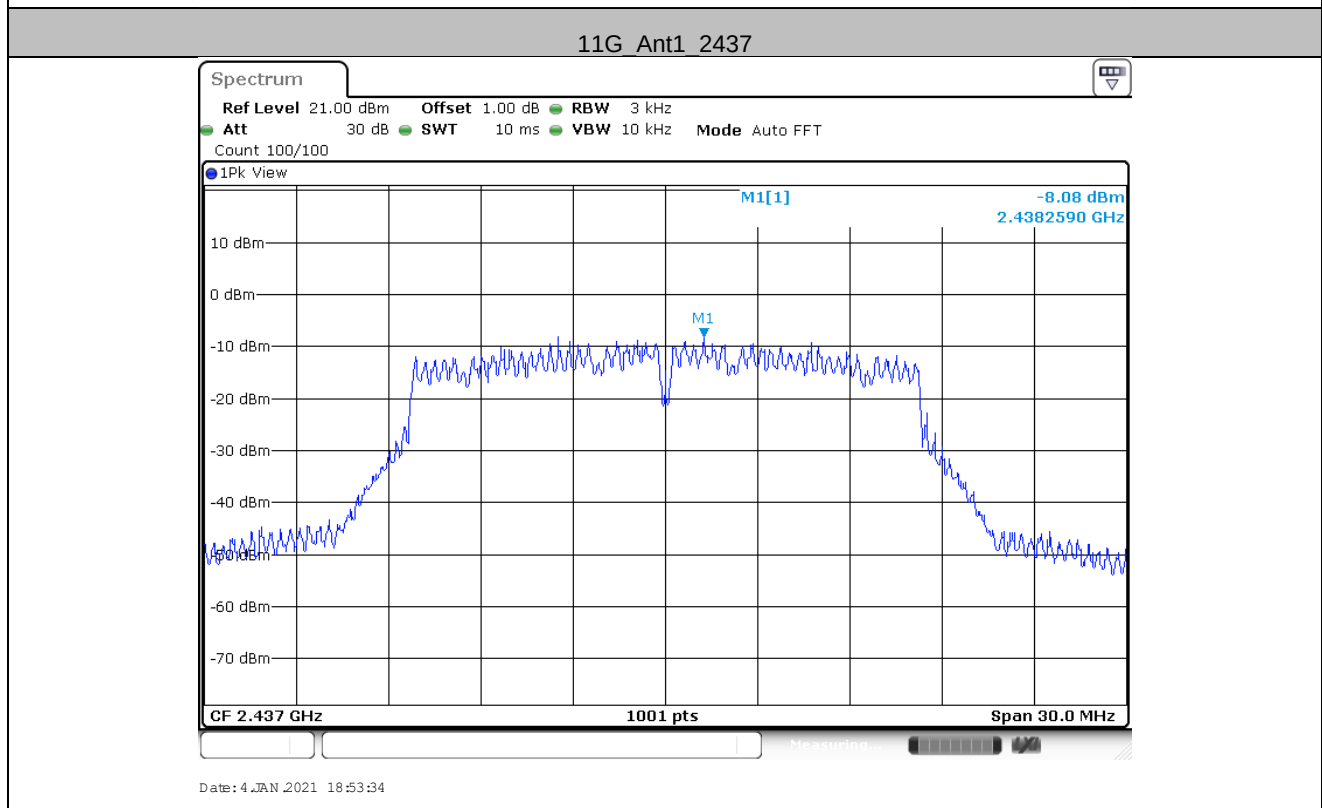
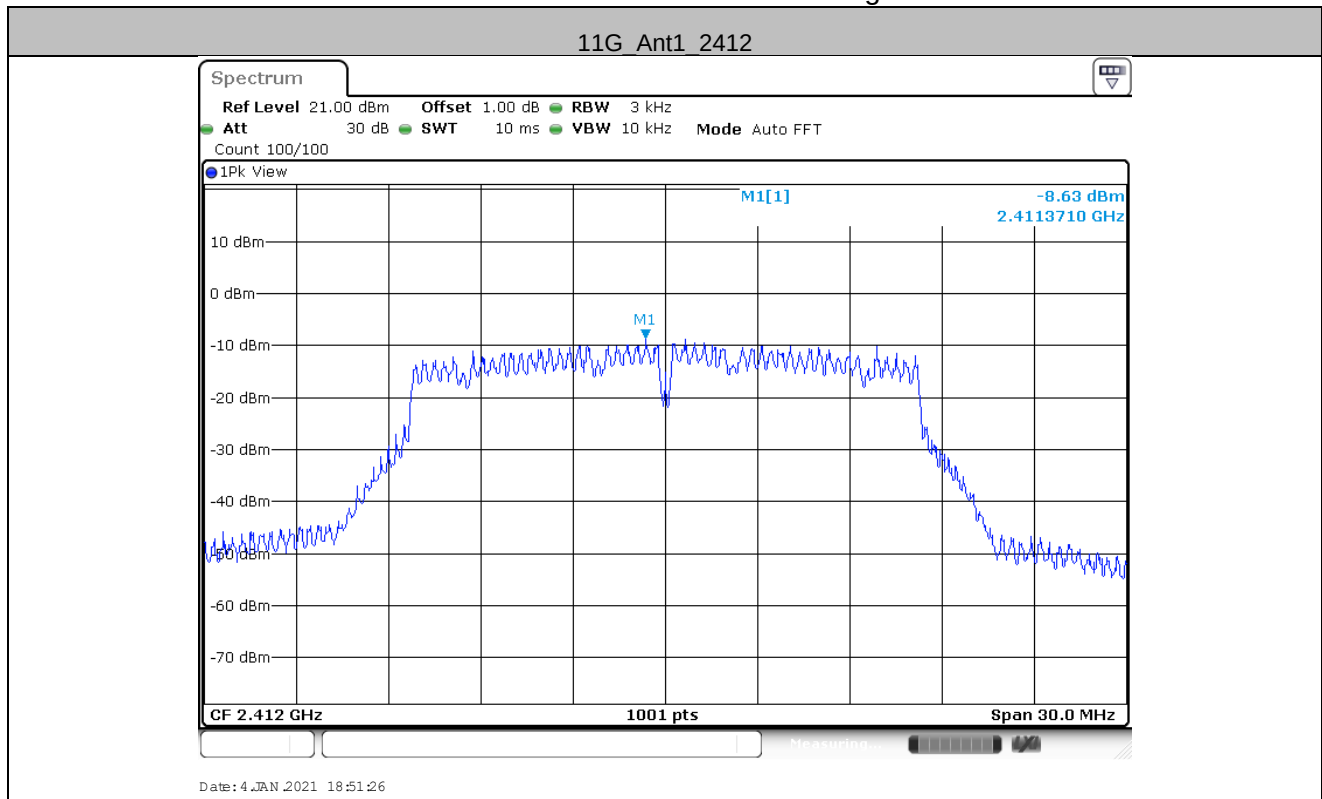


Date: 4 JAN 2021 18:48:49



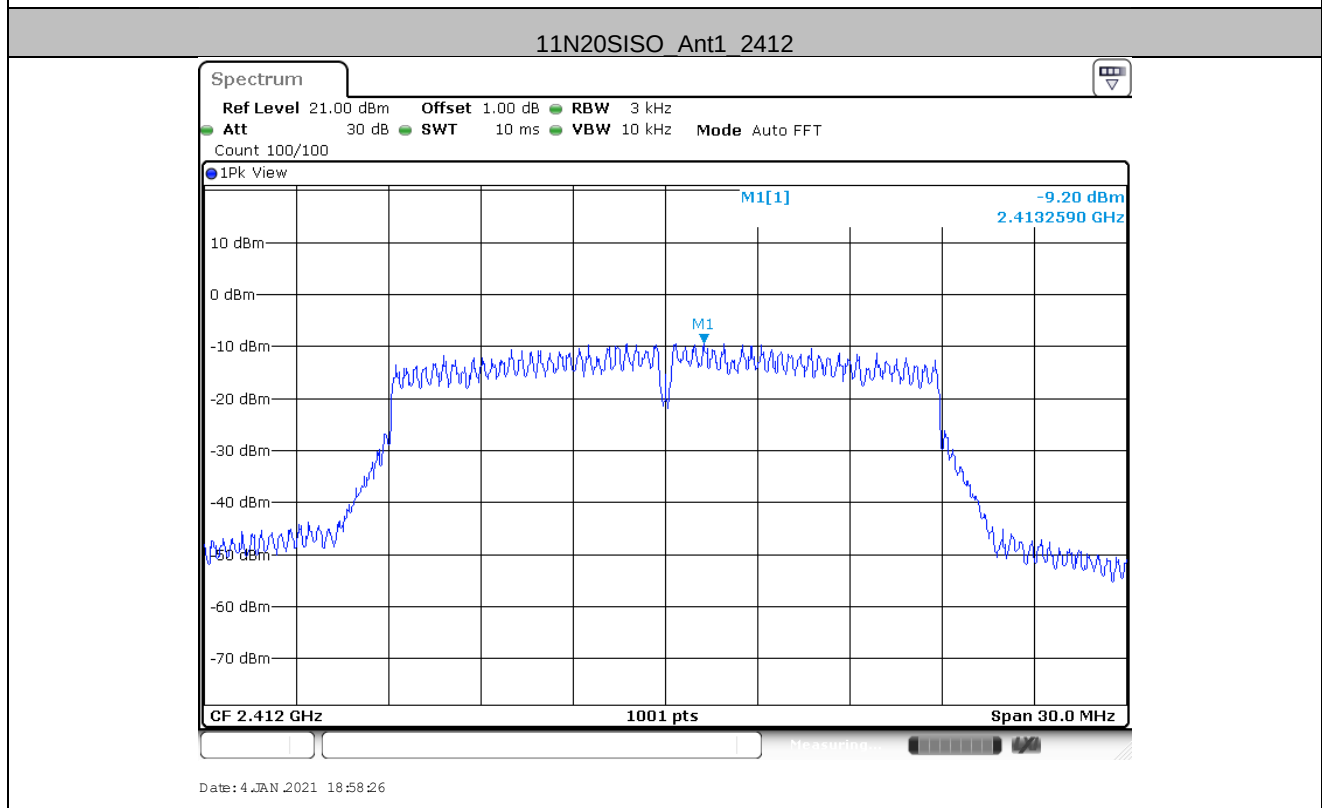
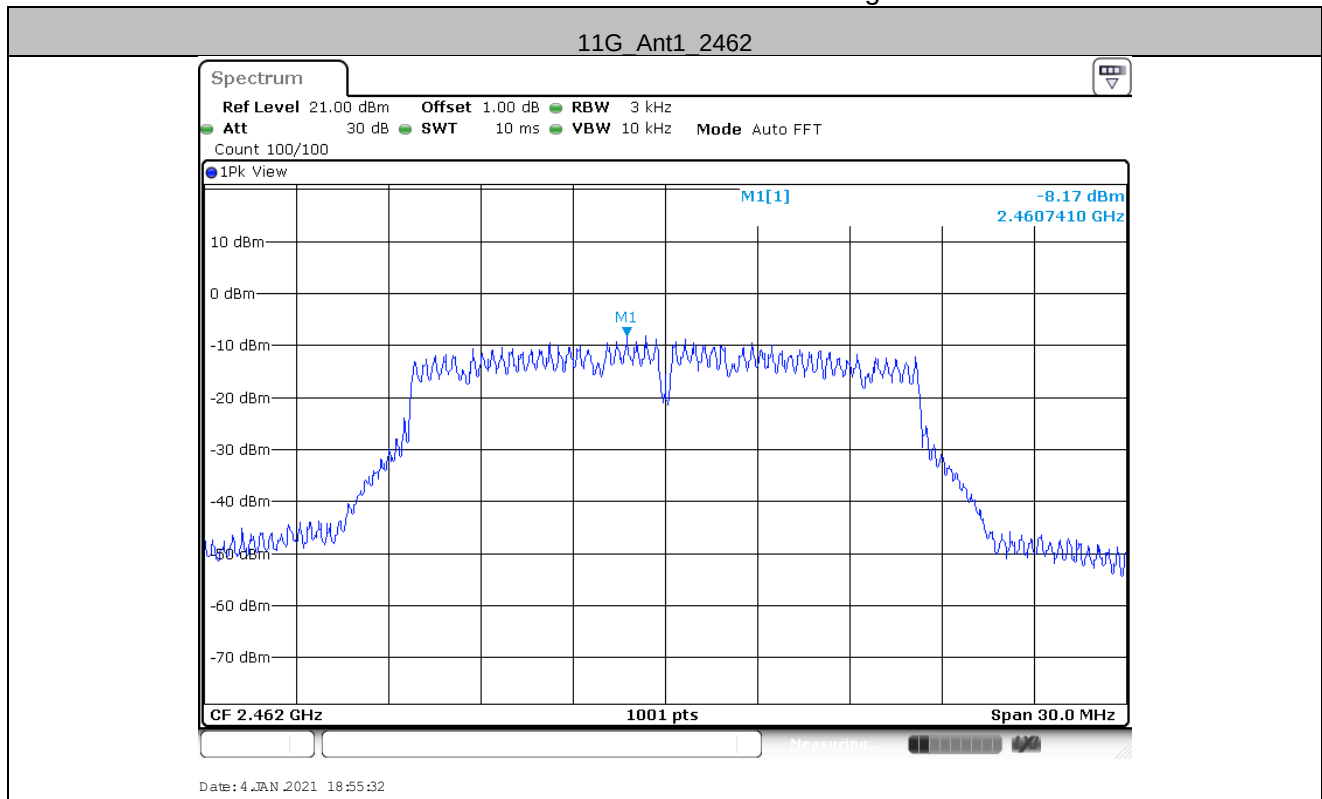
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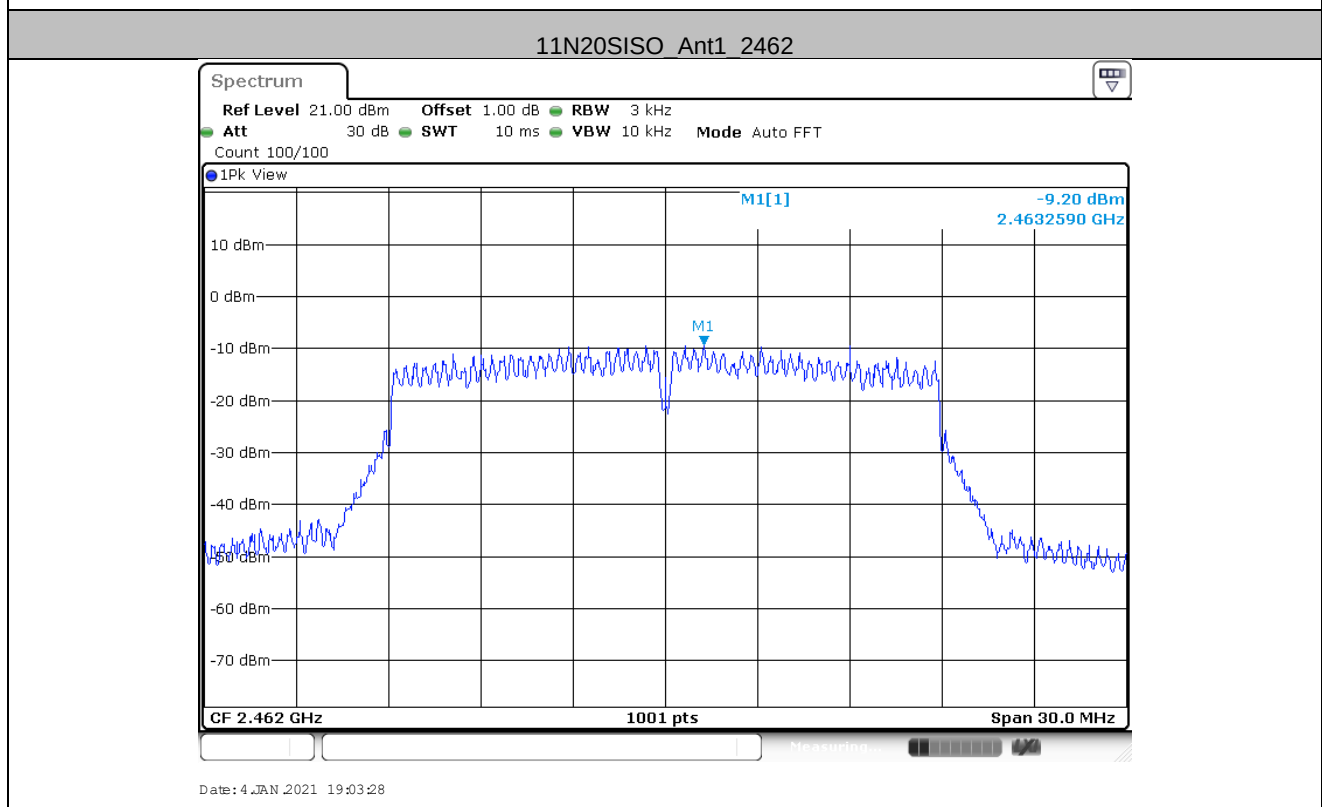
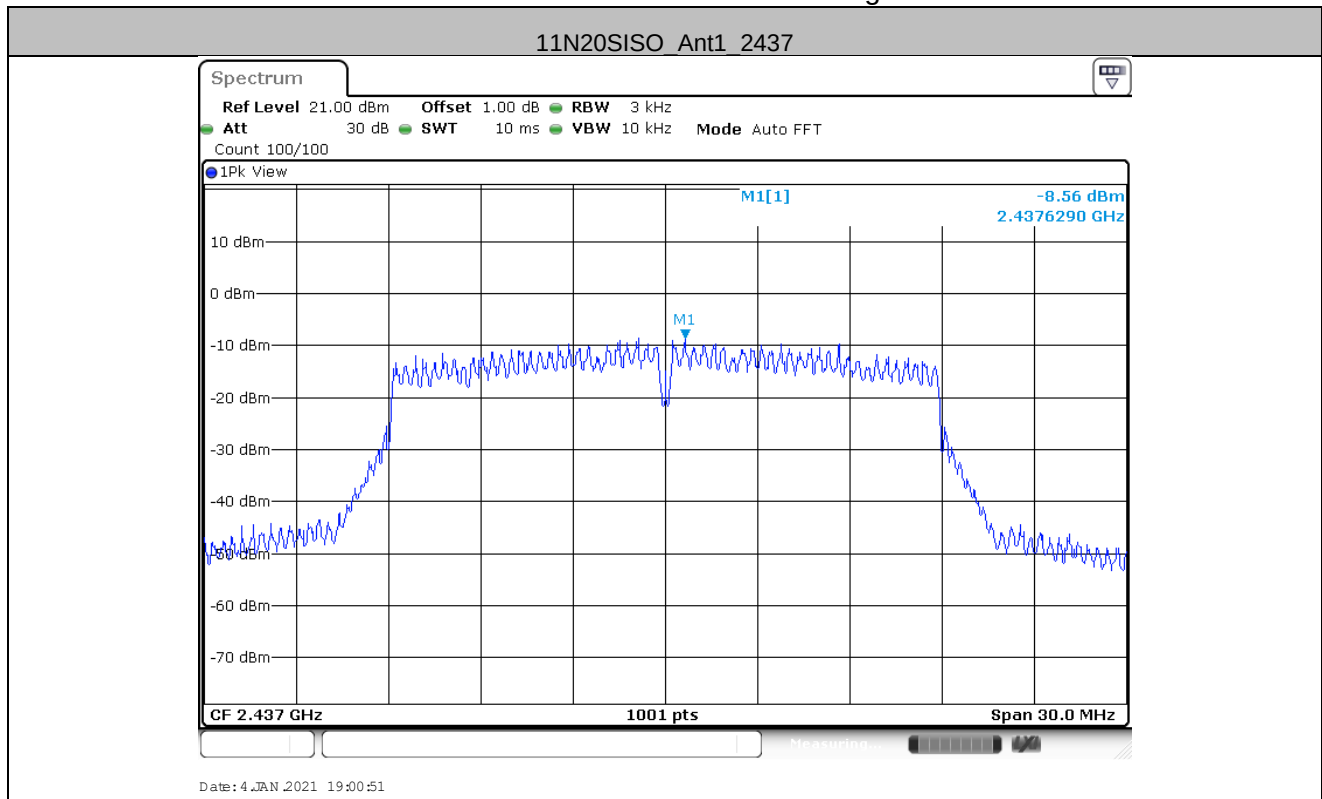
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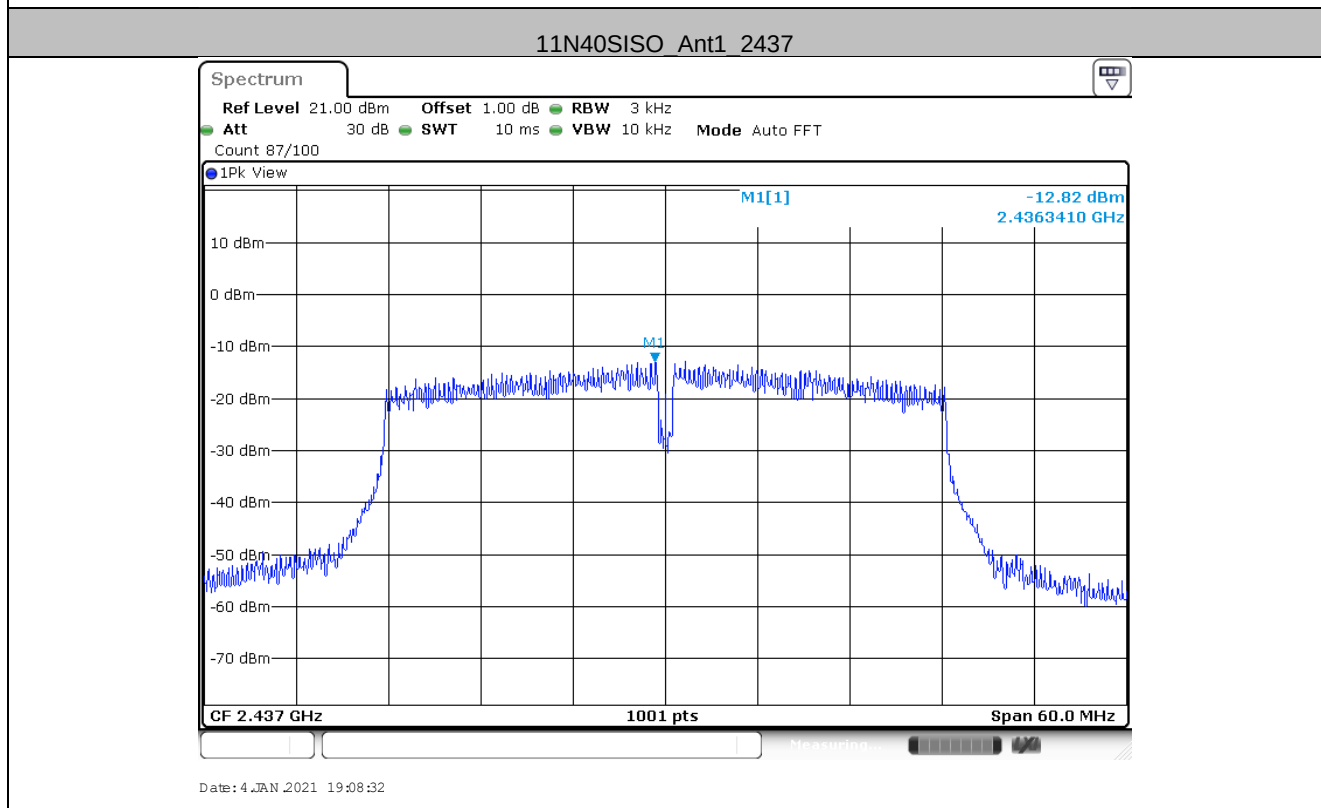
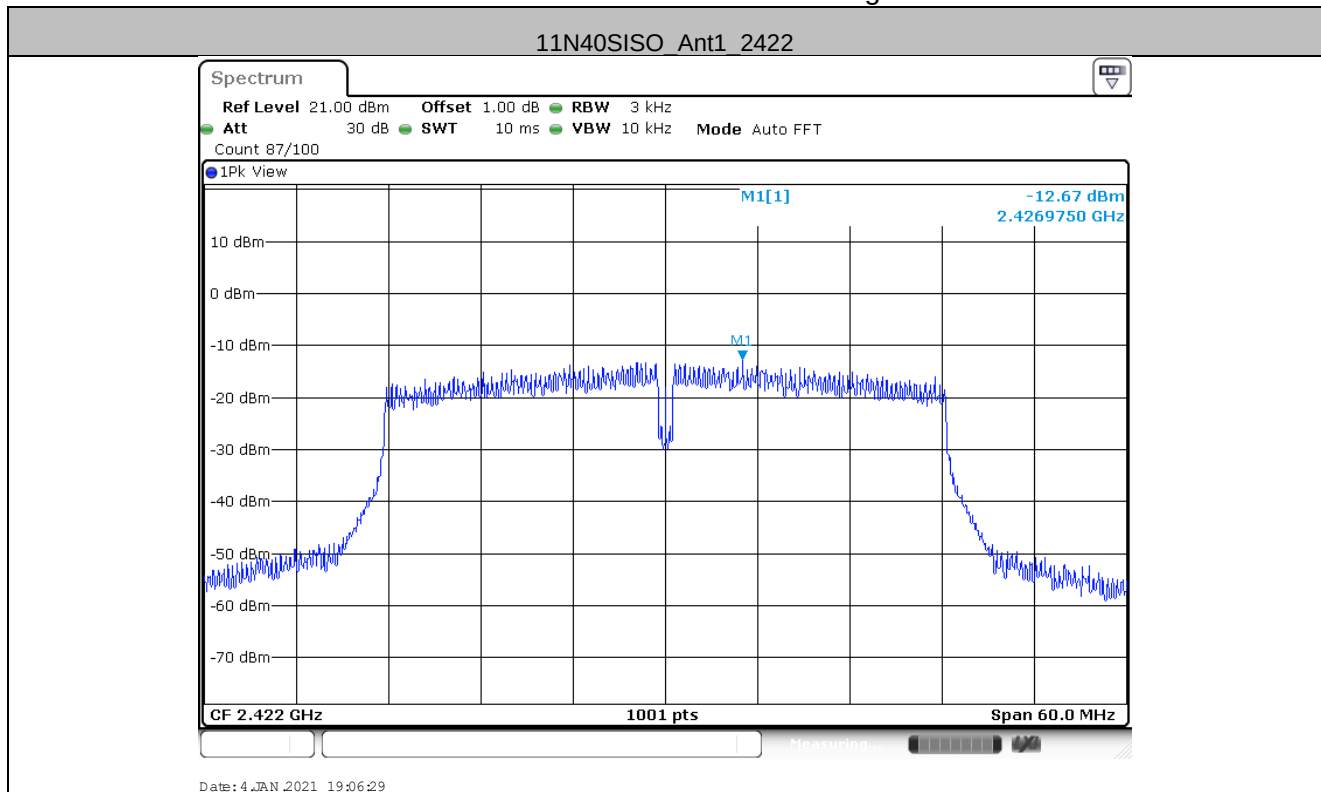
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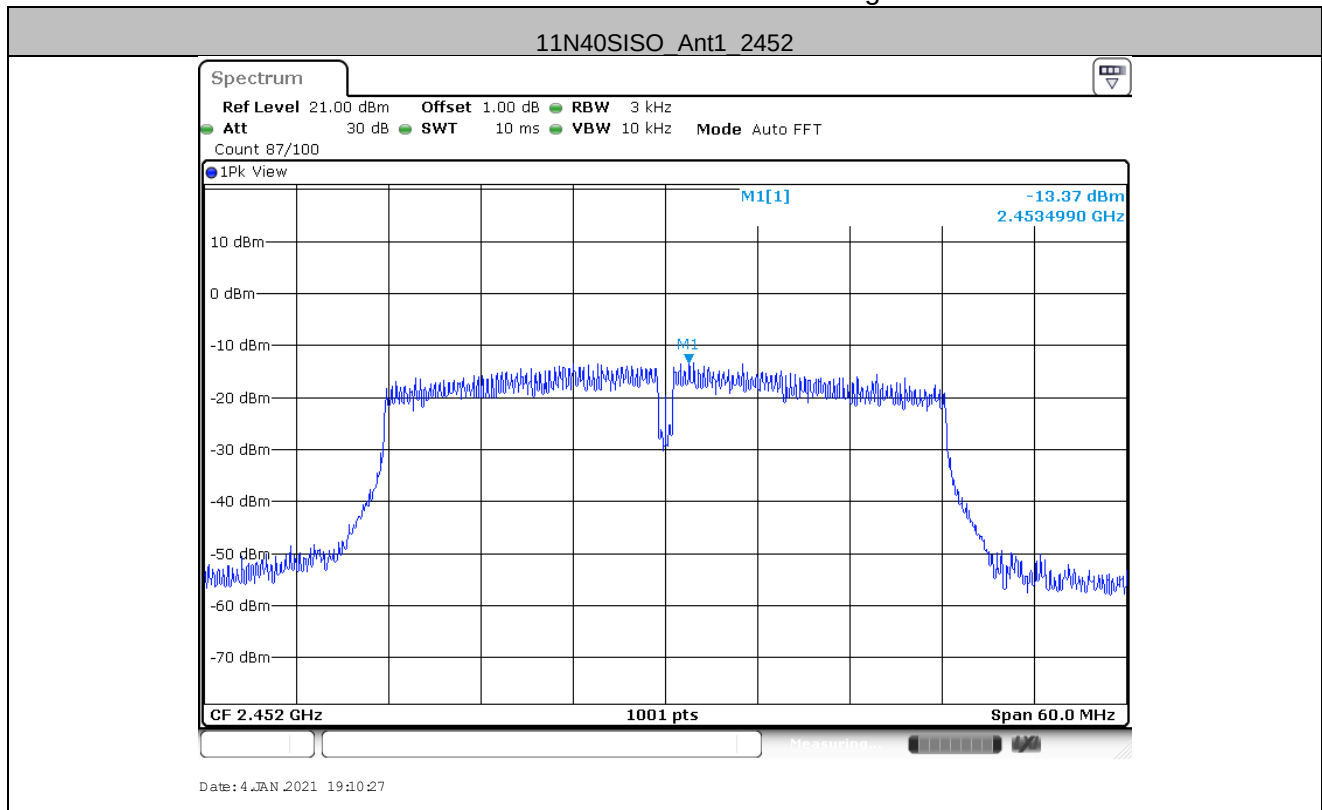
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Band edge measurements

Test Result

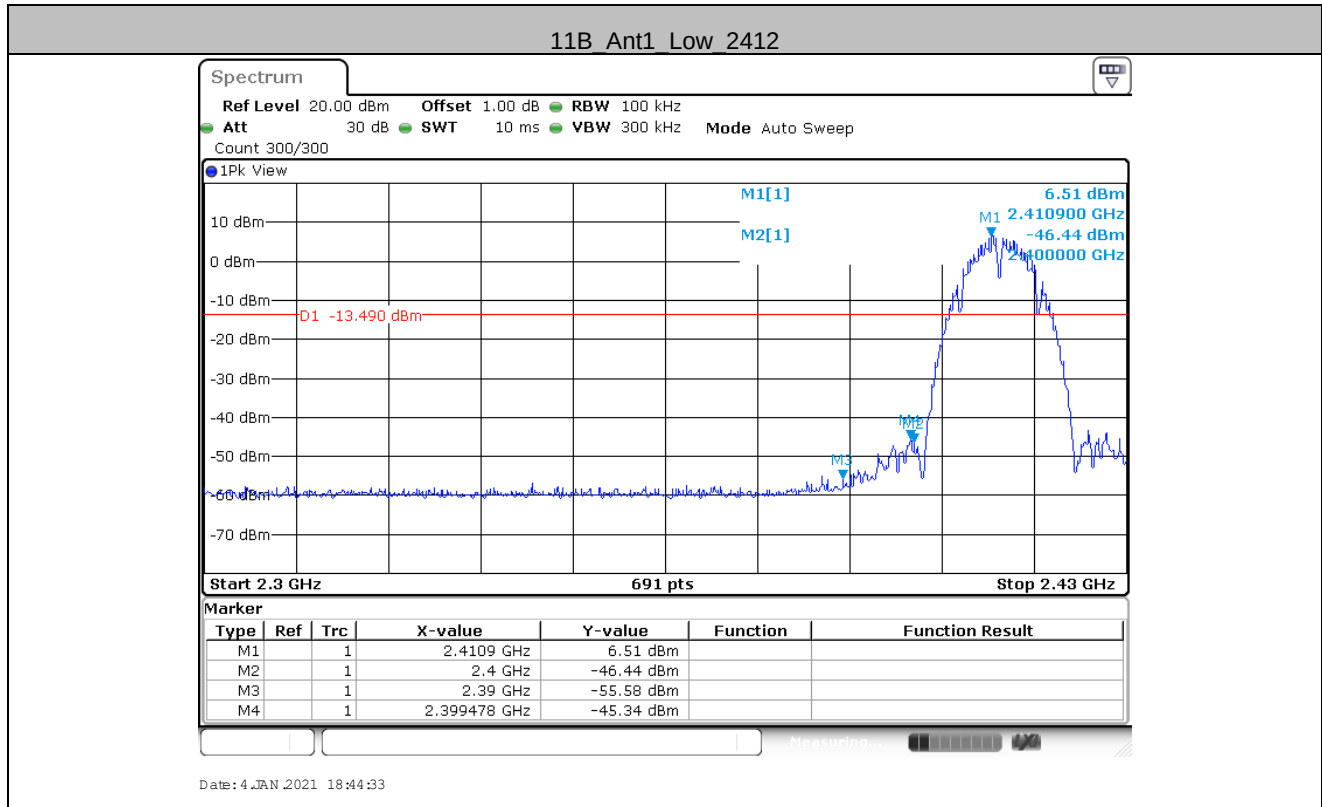
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		High	2462	6.43	-52.64	<=-13.57	PASS
11G	Ant1	Low	2412	4.13	-27.67	<=-15.87	PASS
		High	2462	4.13	-44.43	<=-15.87	PASS
11N20SISO	Ant1	Low	2412	4.13	-28.52	<=-15.87	PASS
		High	2462	4.00	-42.59	<=-16	PASS
11N40SISO	Ant1	Low	2422	1.05	-33.09	<=-18.95	PASS
		High	2452	1.12	-36.88	<=-18.88	PASS



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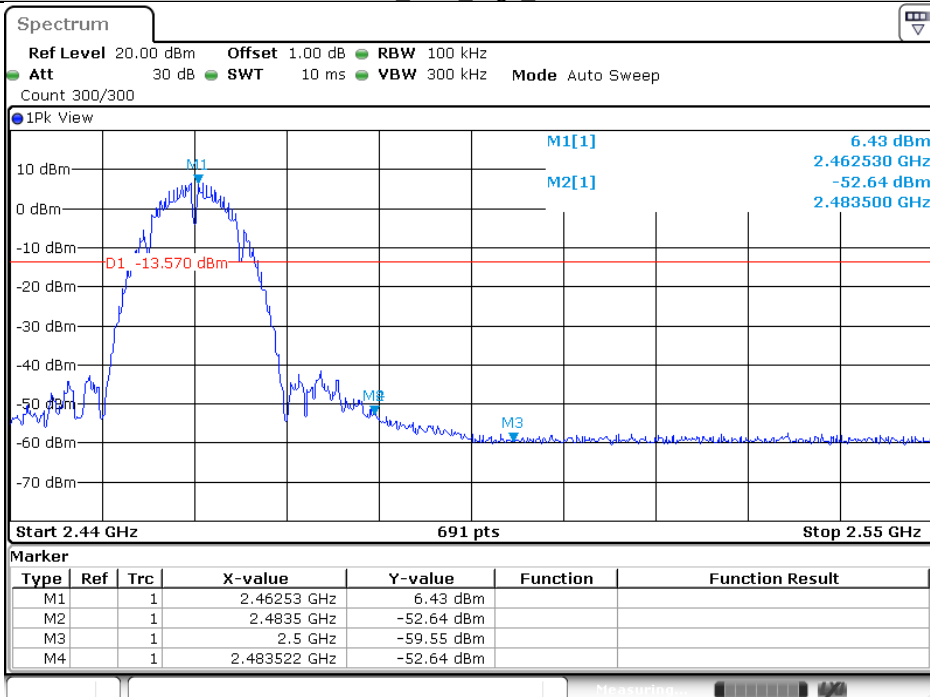
Test Graphs



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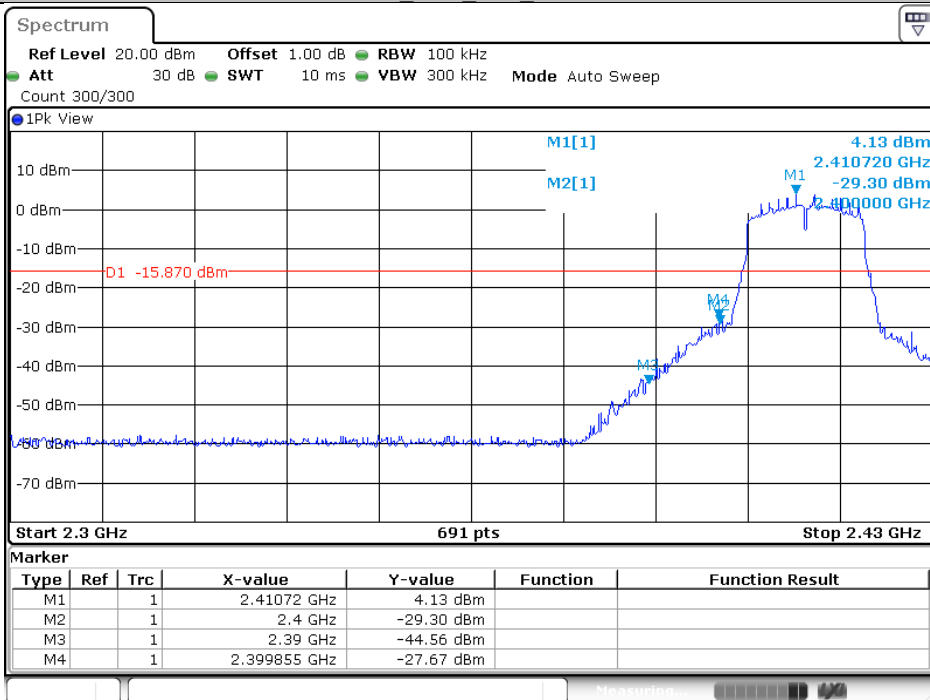
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11B Ant1 High 2462



Date: 4 JAN 2021 18:49:00

11G Ant1 Low 2412



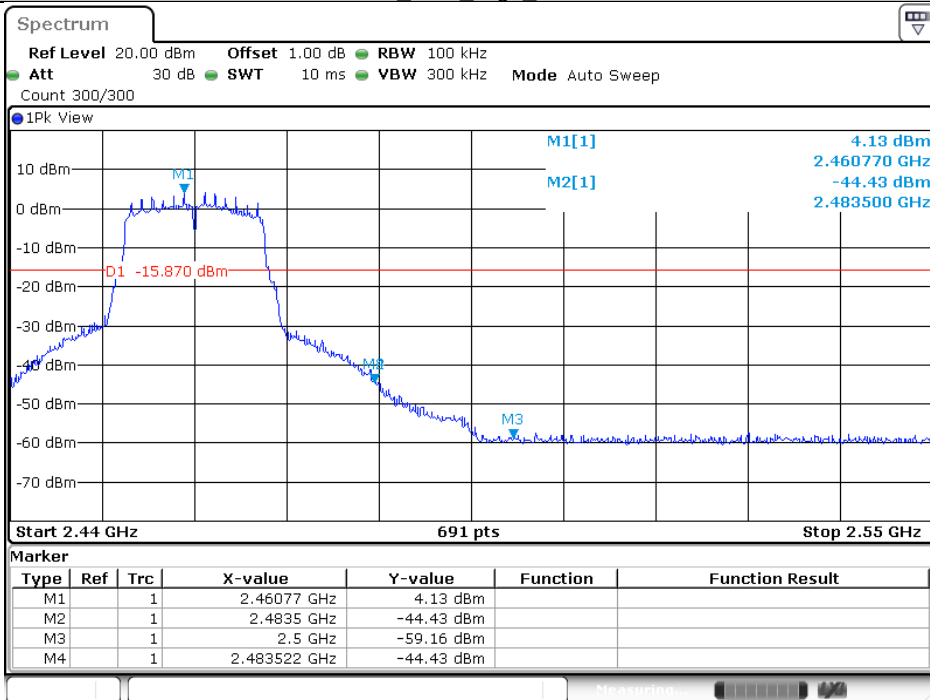
Date: 4 JAN 2021 18:51:37



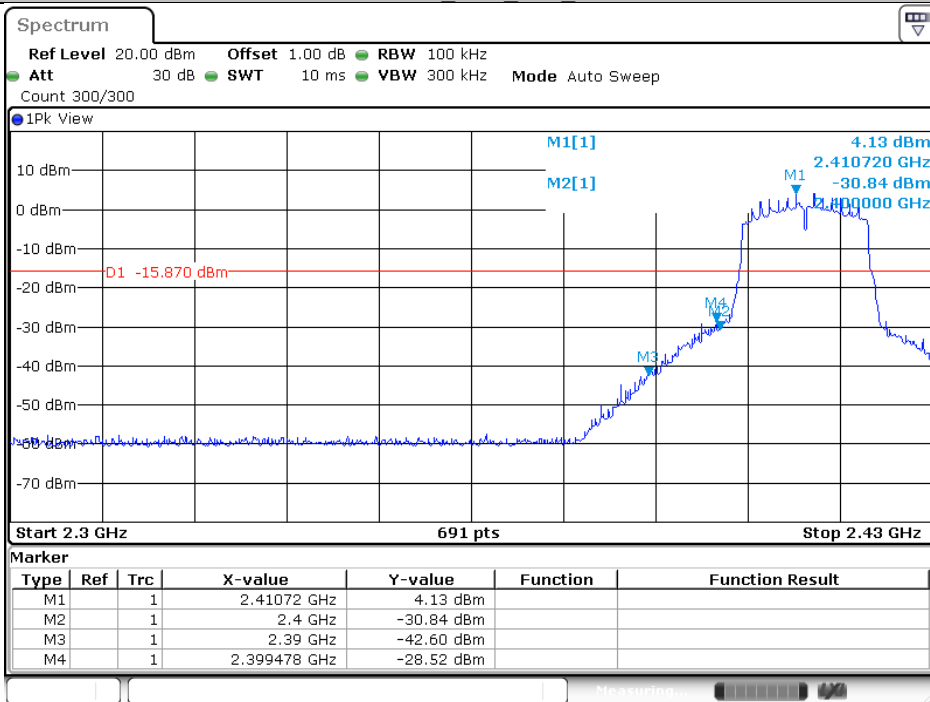
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11G Ant1 High 2462



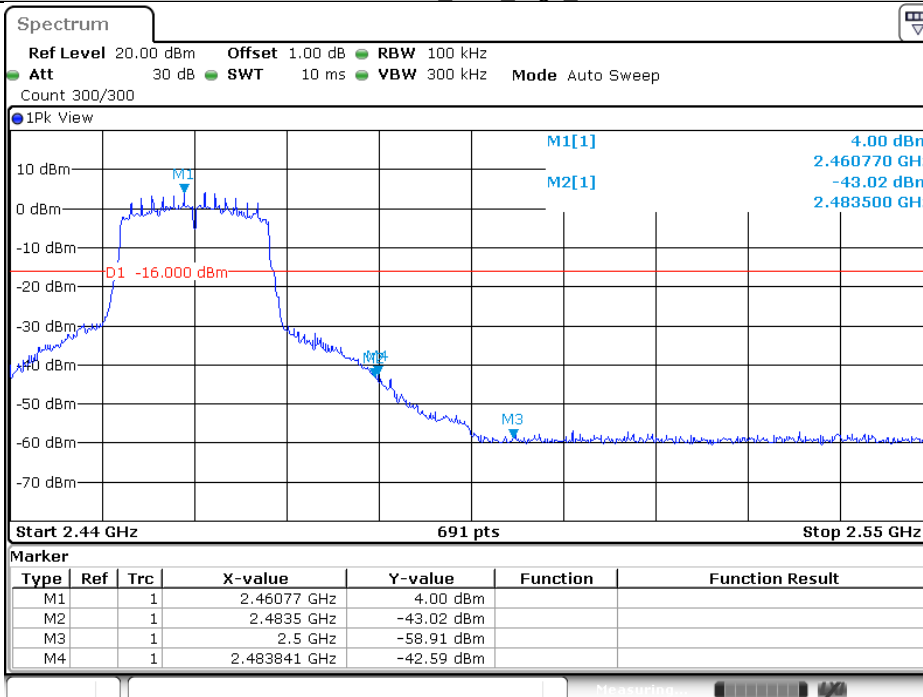
11N20SISO Ant1 Low 2412



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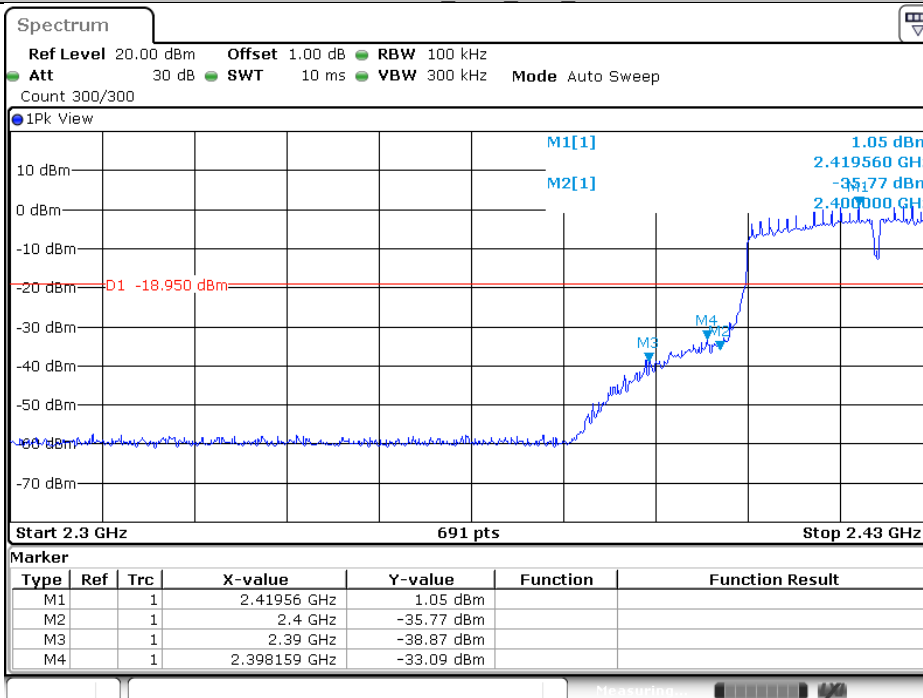
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11N20SISO Ant1 High 2462



Date: 4 JAN 2021 19:03:39

11N40SISO Ant1 Low 2422

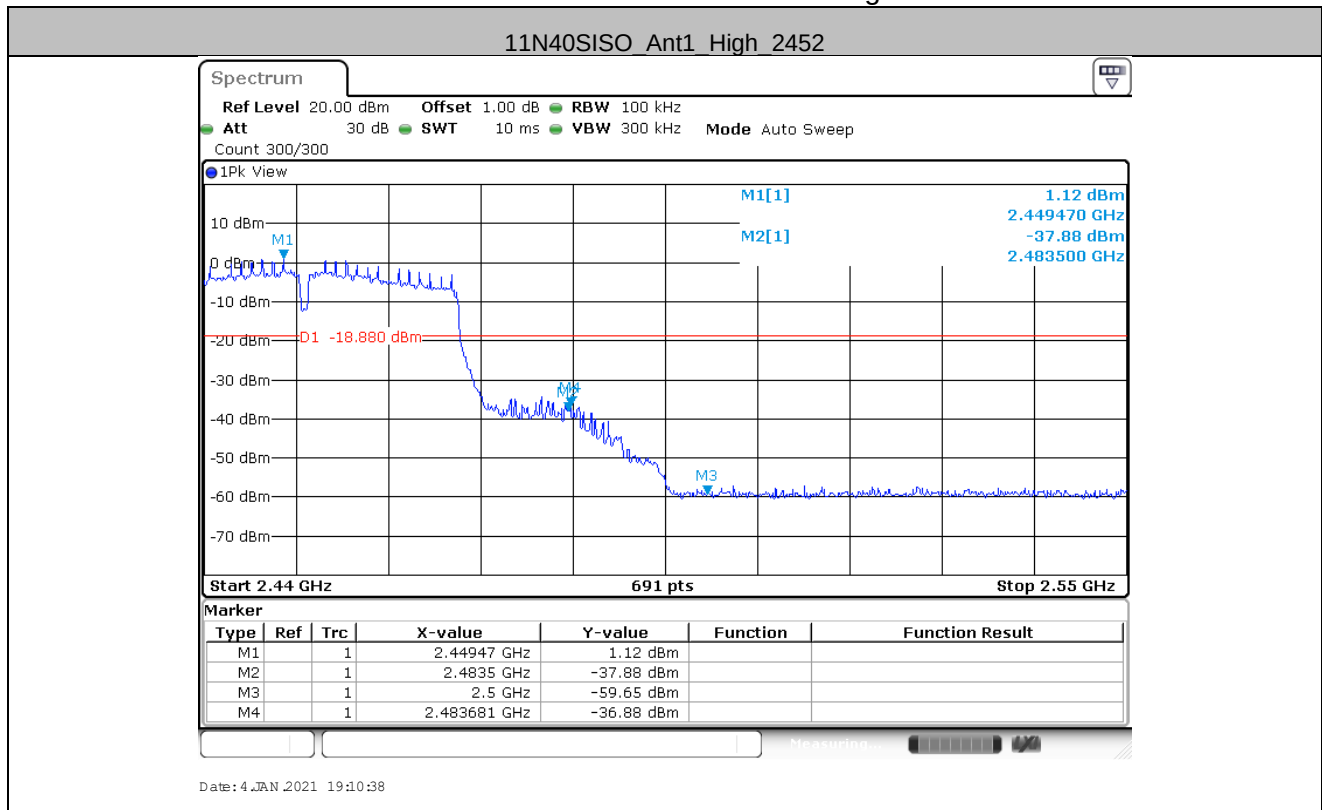


Date: 4 JAN 2021 19:06:40



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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	6.48	6.48	---	PASS
			30~1000	6.48	-45.69	<=-13.52	PASS
			1000~26500	6.48	-31.32	<=-13.52	PASS
		2437	Reference	6.75	6.75	---	PASS
			30~1000	6.75	-44.83	<=-13.25	PASS
			1000~26500	6.75	-30.39	<=-13.25	PASS
		2462	Reference	6.62	6.62	---	PASS
			30~1000	6.62	-45.67	<=-13.38	PASS
			1000~26500	6.62	-30.93	<=-13.38	PASS
11G	Ant1	2412	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-46.26	<=-16.06	PASS
			1000~26500	3.94	-30.6	<=-16.06	PASS
		2437	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-45.12	<=-15.54	PASS
			1000~26500	4.46	-30.26	<=-15.54	PASS
		2462	Reference	4.22	4.22	---	PASS
			30~1000	4.22	-45.92	<=-15.78	PASS
			1000~26500	4.22	-30.92	<=-15.78	PASS
11N20SISO	Ant1	2412	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-45.84	<=-15.85	PASS
			1000~26500	4.15	-30.67	<=-15.85	PASS
		2437	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-45.79	<=-15.71	PASS
			1000~26500	4.29	-29.76	<=-15.71	PASS
		2462	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-45.09	<=-15.85	PASS
			1000~26500	4.15	-31.32	<=-15.85	PASS
11N40SISO	Ant1	2422	Reference	0.96	0.96	---	PASS



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Report No.: AR/2020/C000804-01

Page: 104 of 131

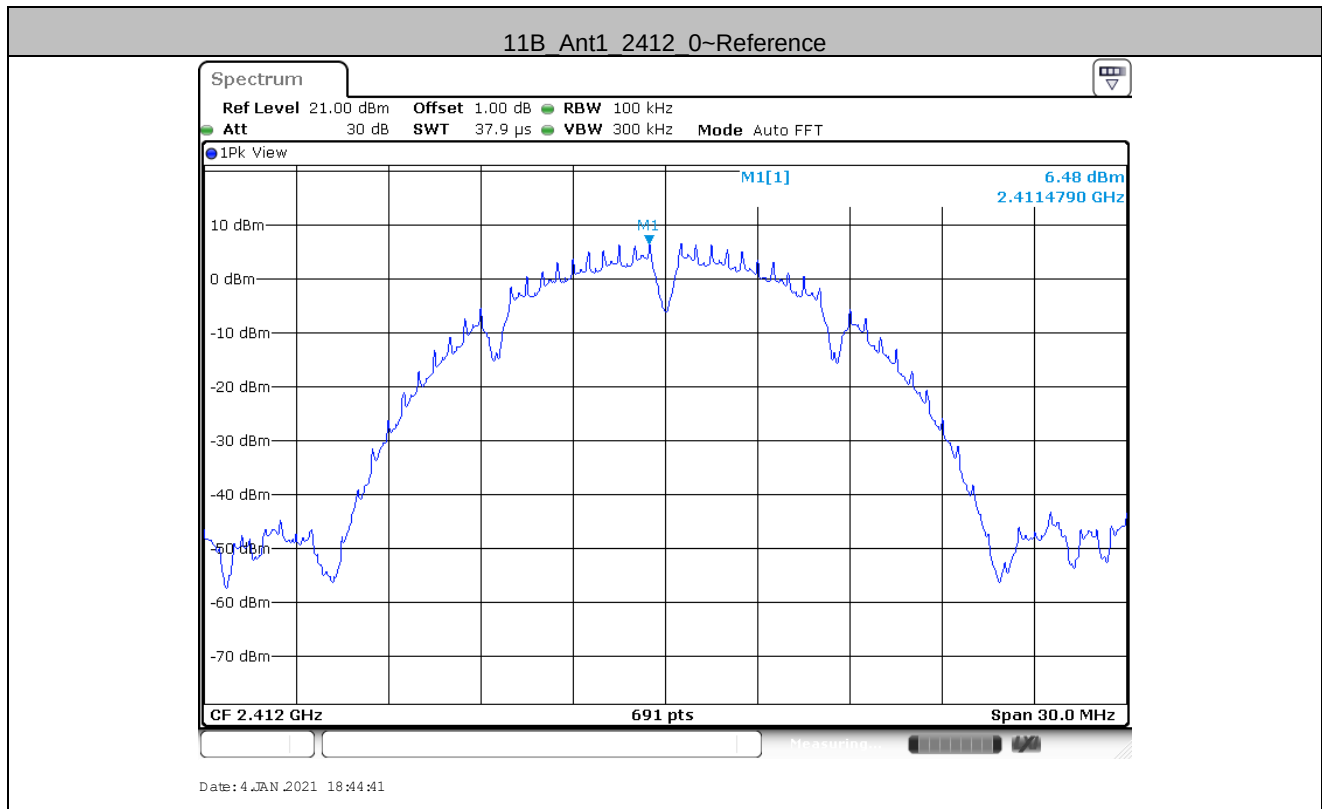
			30~1000	0.96	-46.17	<=-19.04	PASS
			1000~26500	0.96	-30.59	<=-19.04	PASS
		2437	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-44.57	<=-18.91	PASS
			1000~26500	1.09	-30.38	<=-18.91	PASS
		2452	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-45.7	<=-18.73	PASS
			1000~26500	1.27	-29.72	<=-18.73	PASS



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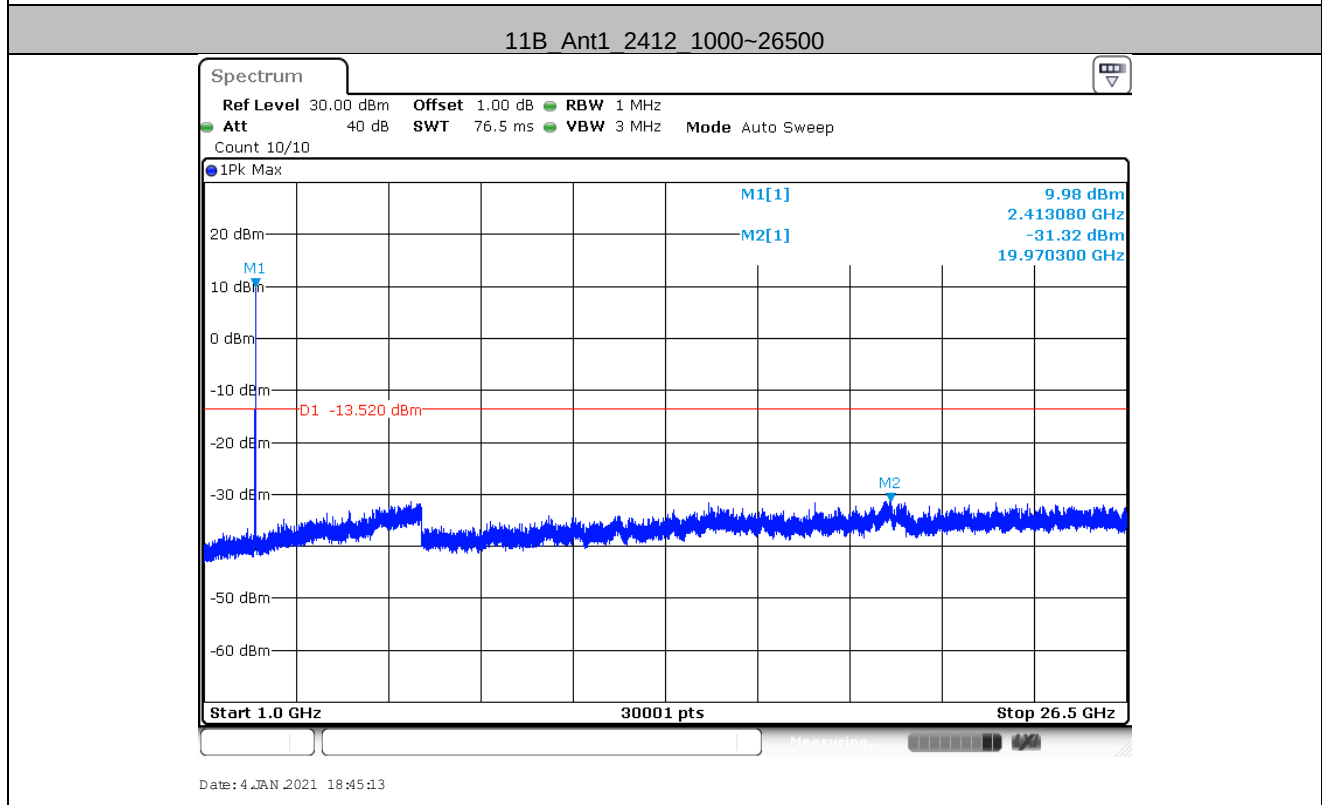
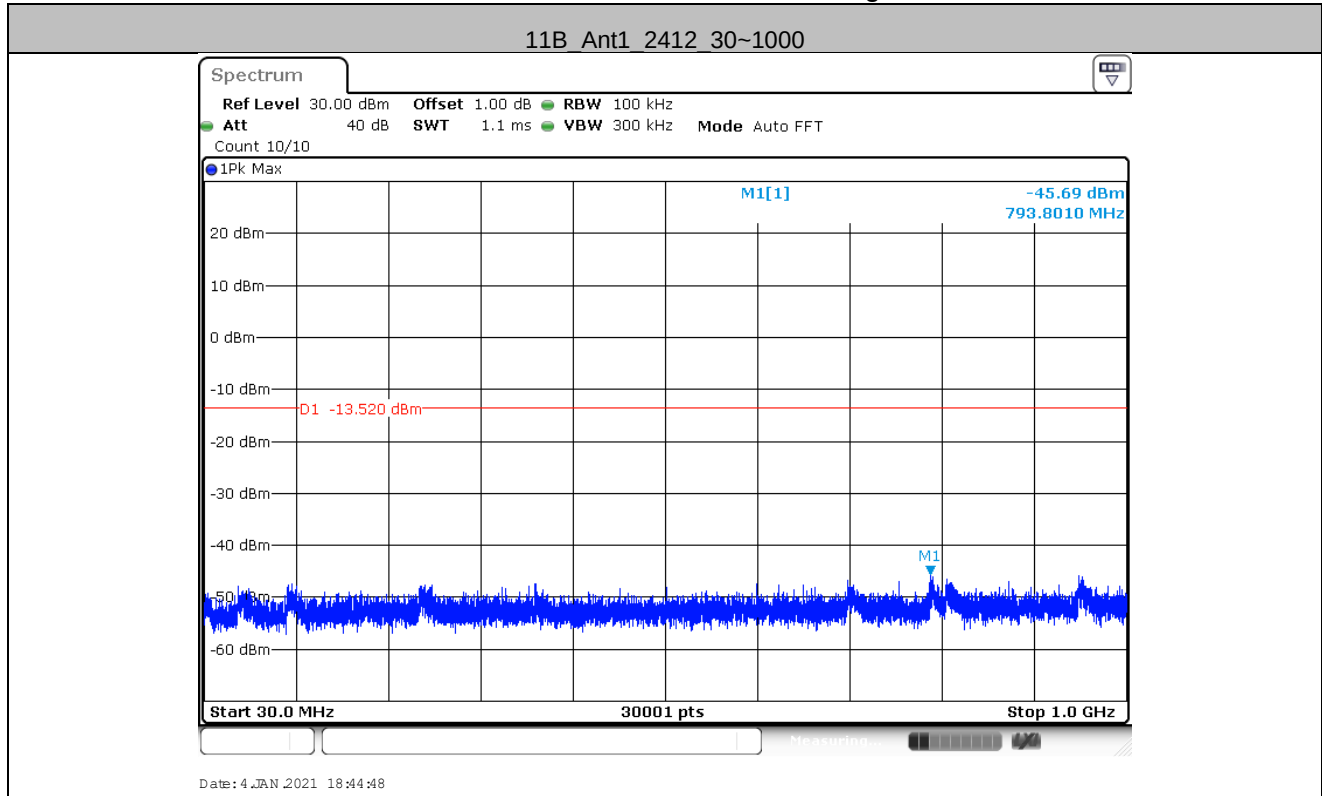
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Test Graphs



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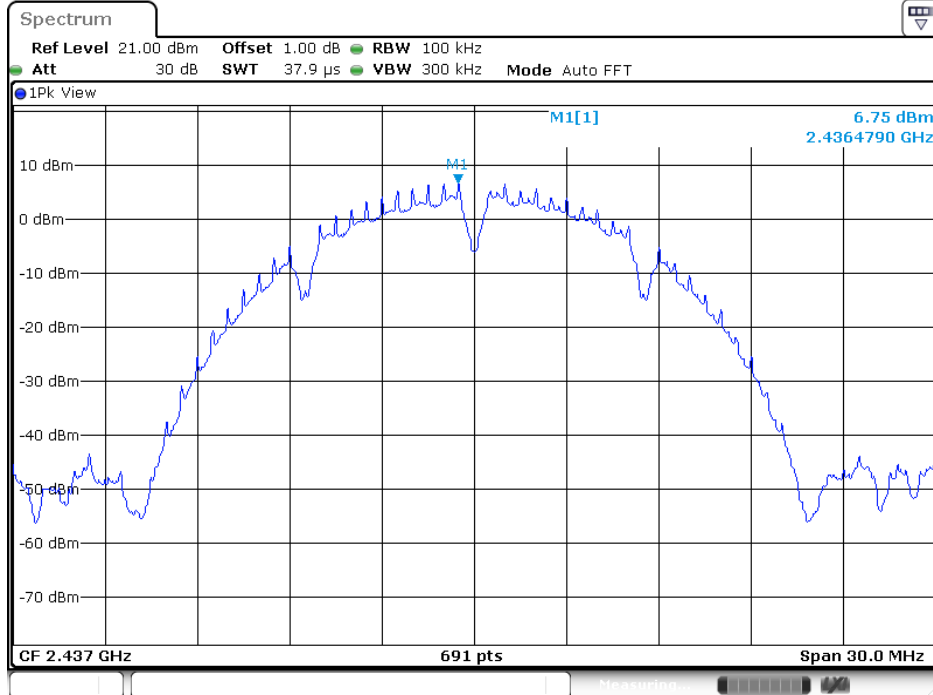
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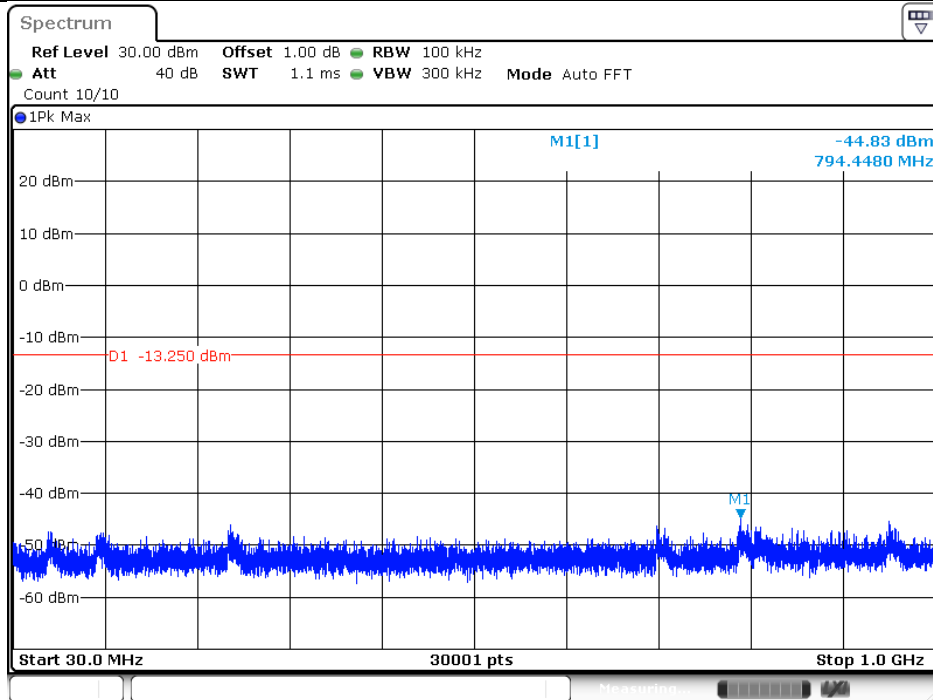
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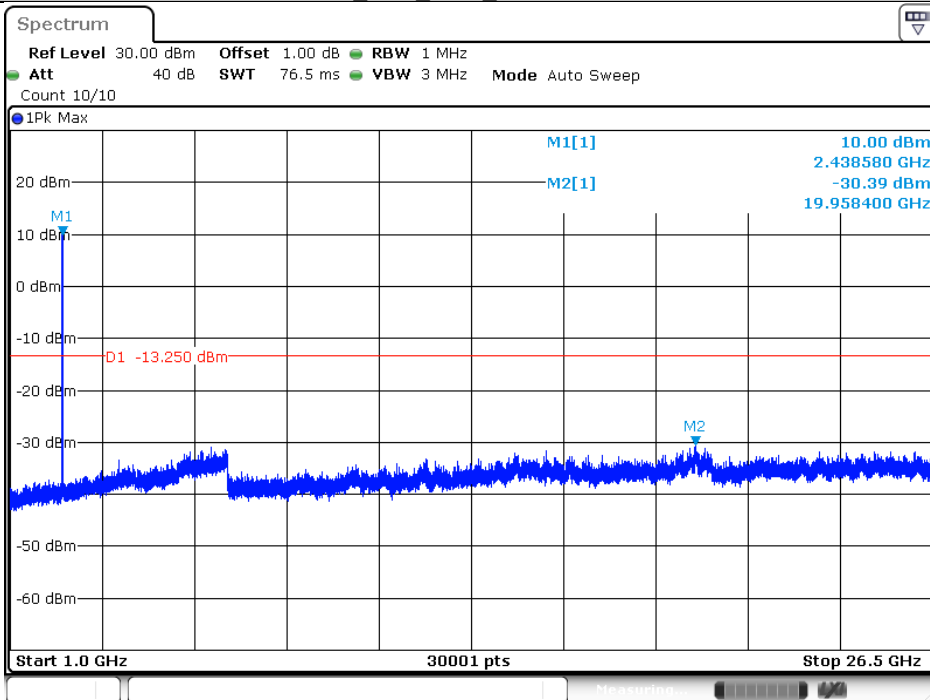
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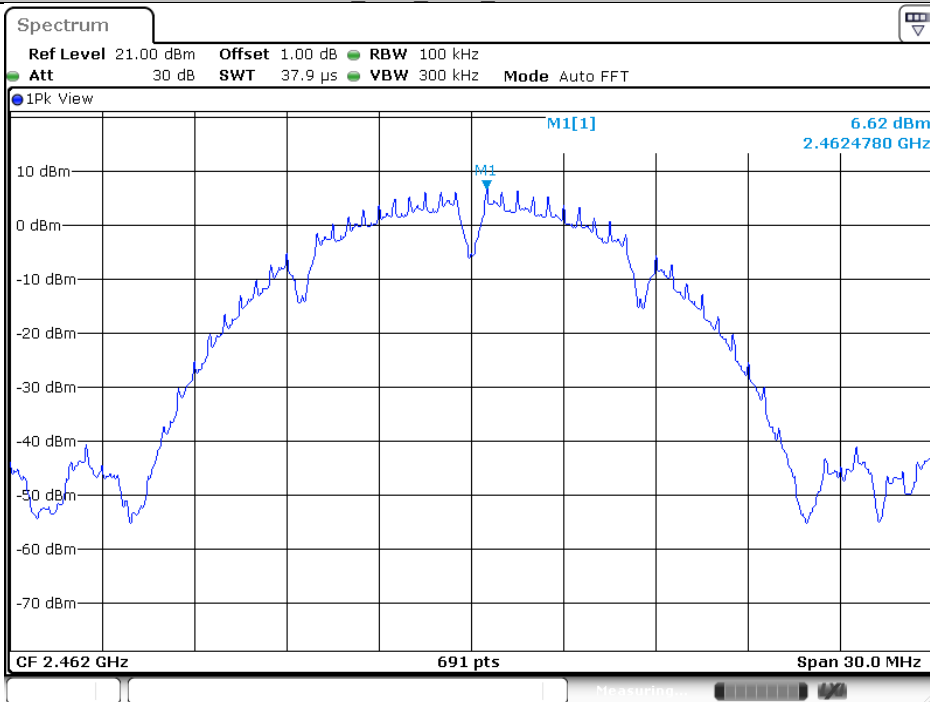
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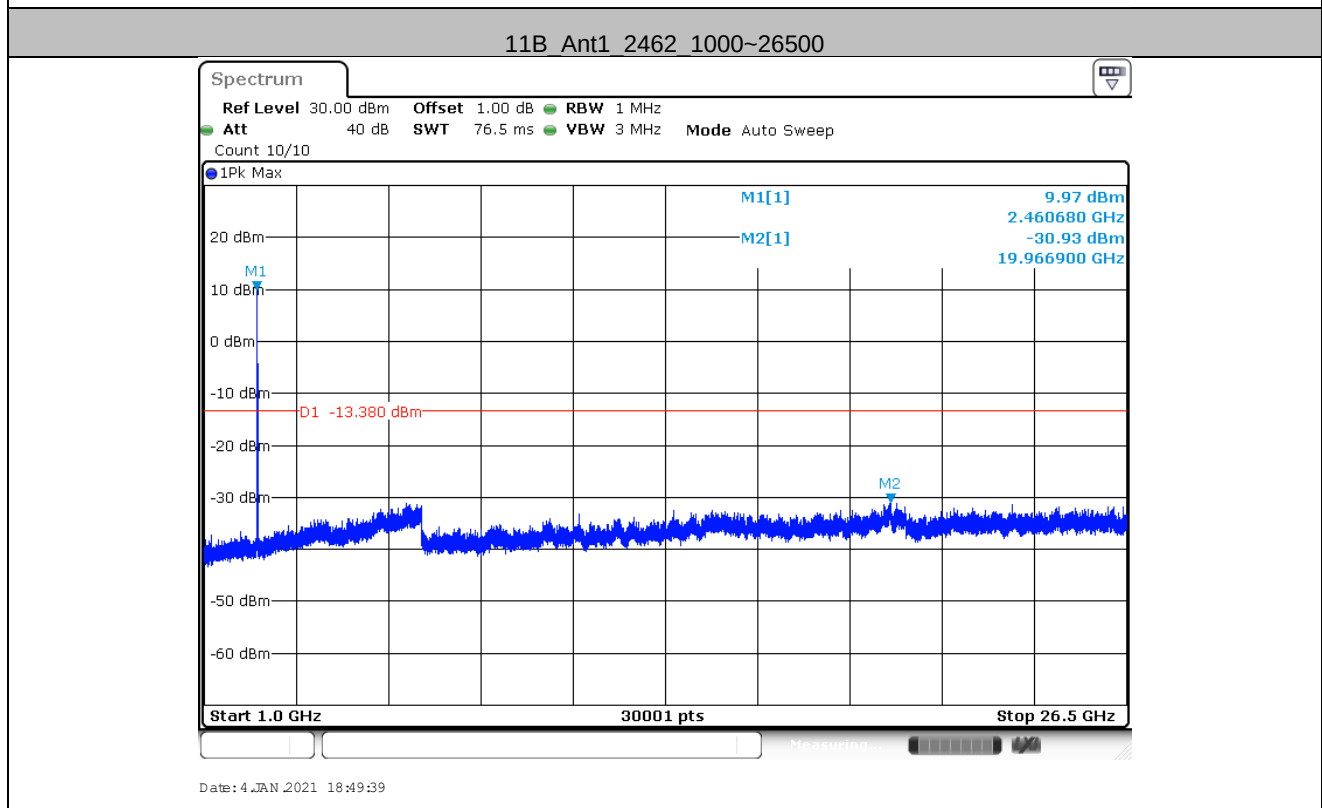
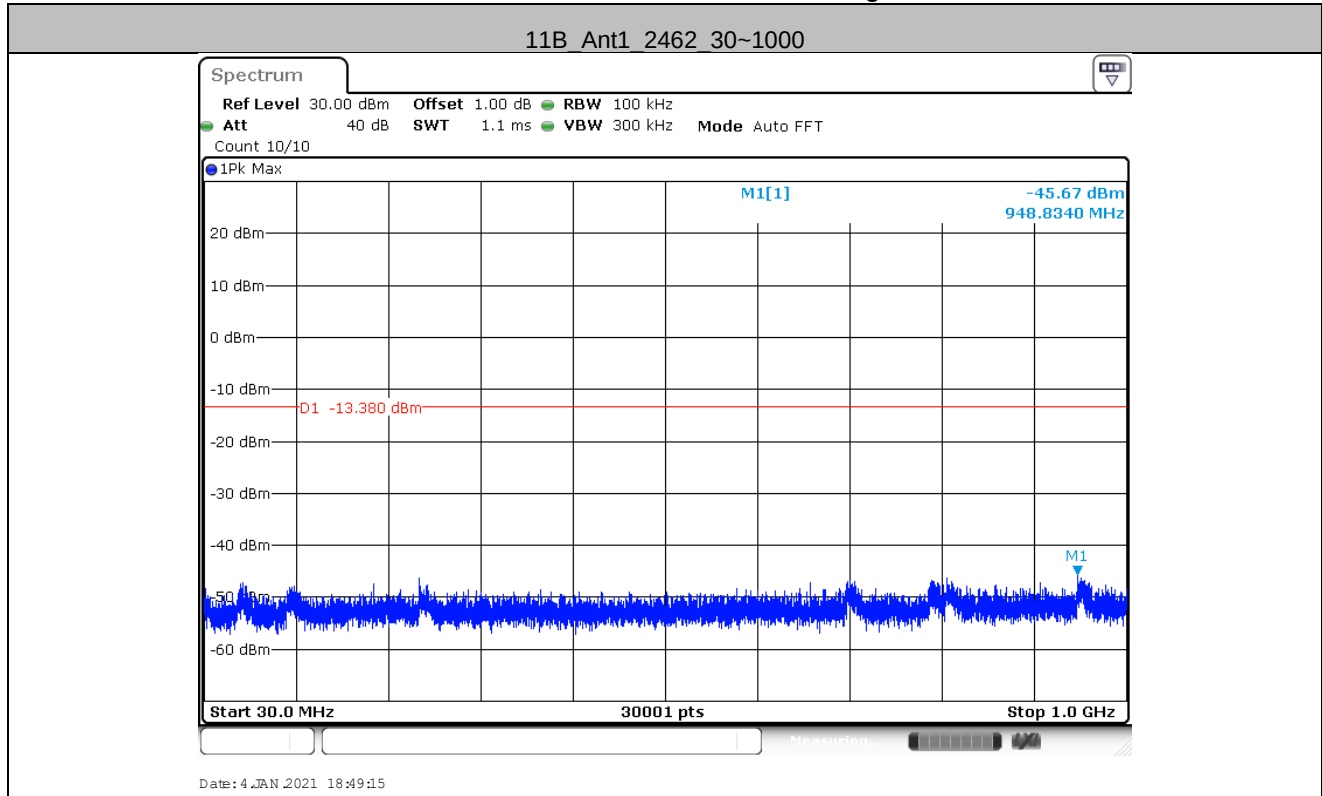


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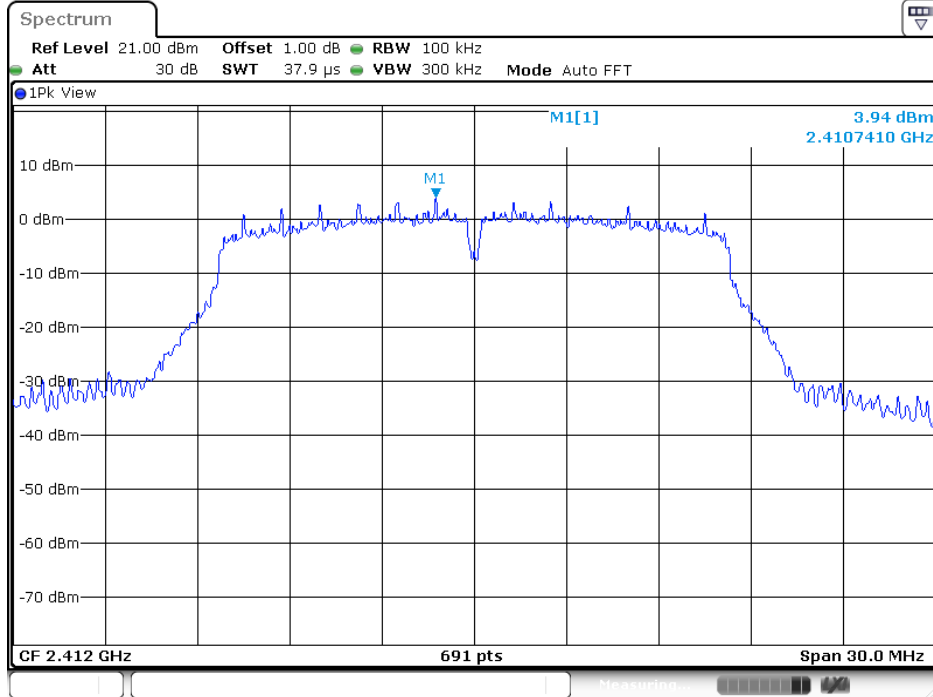
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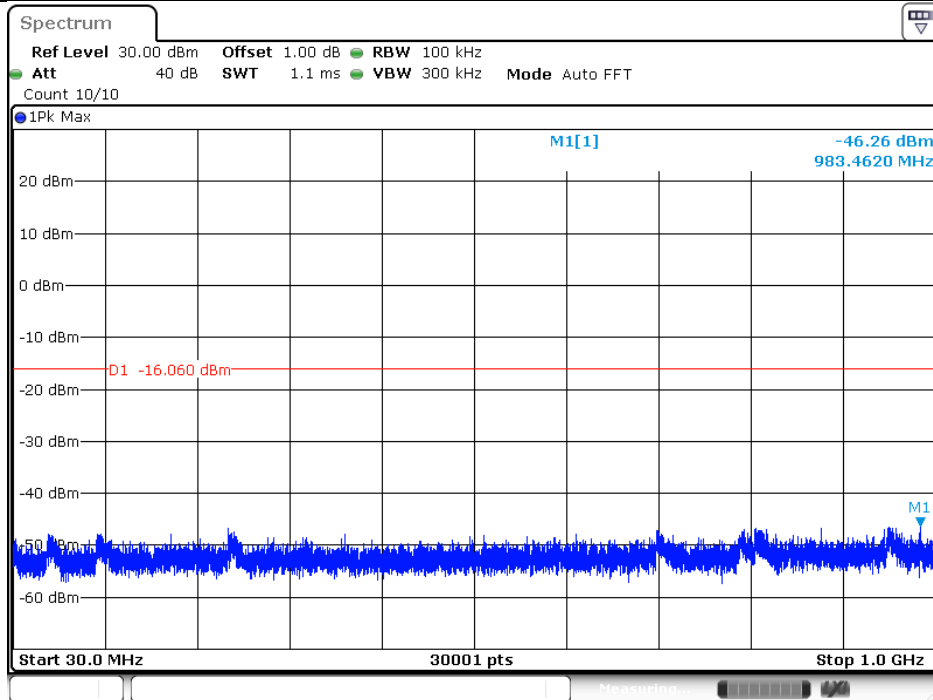
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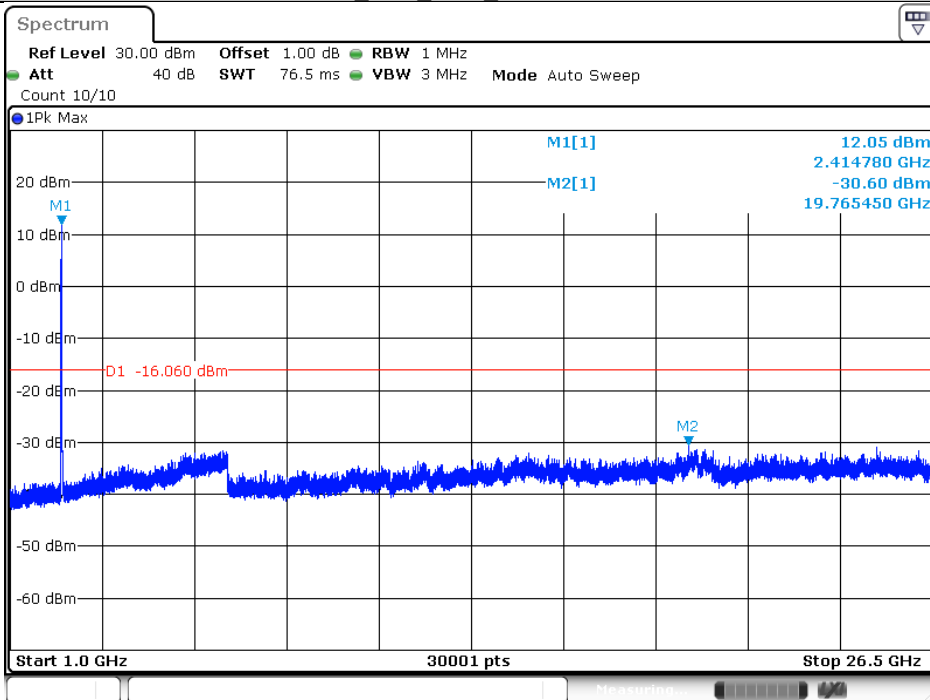
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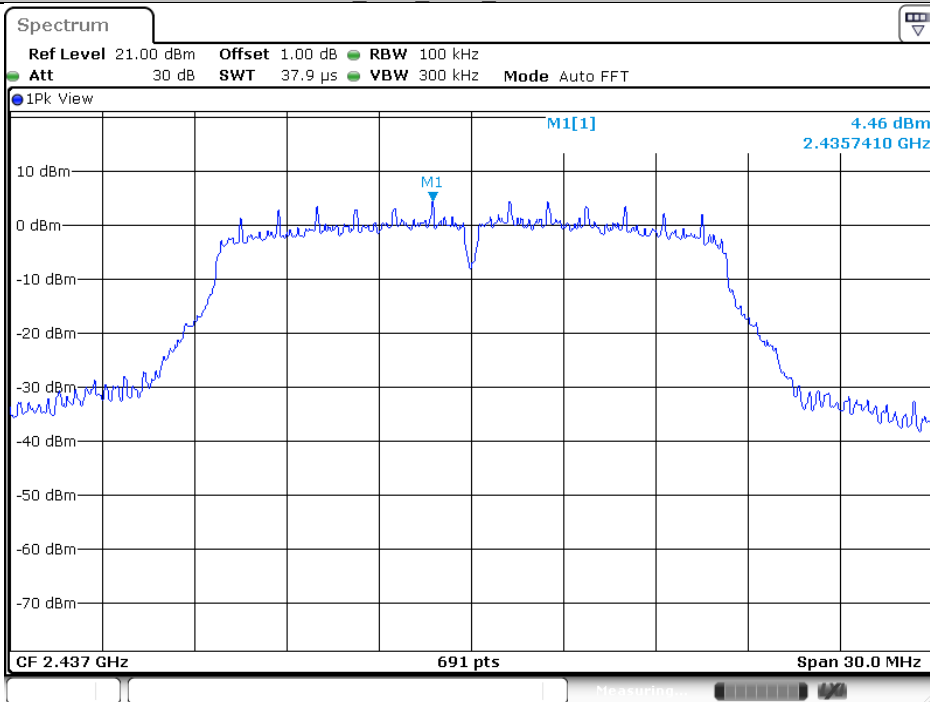
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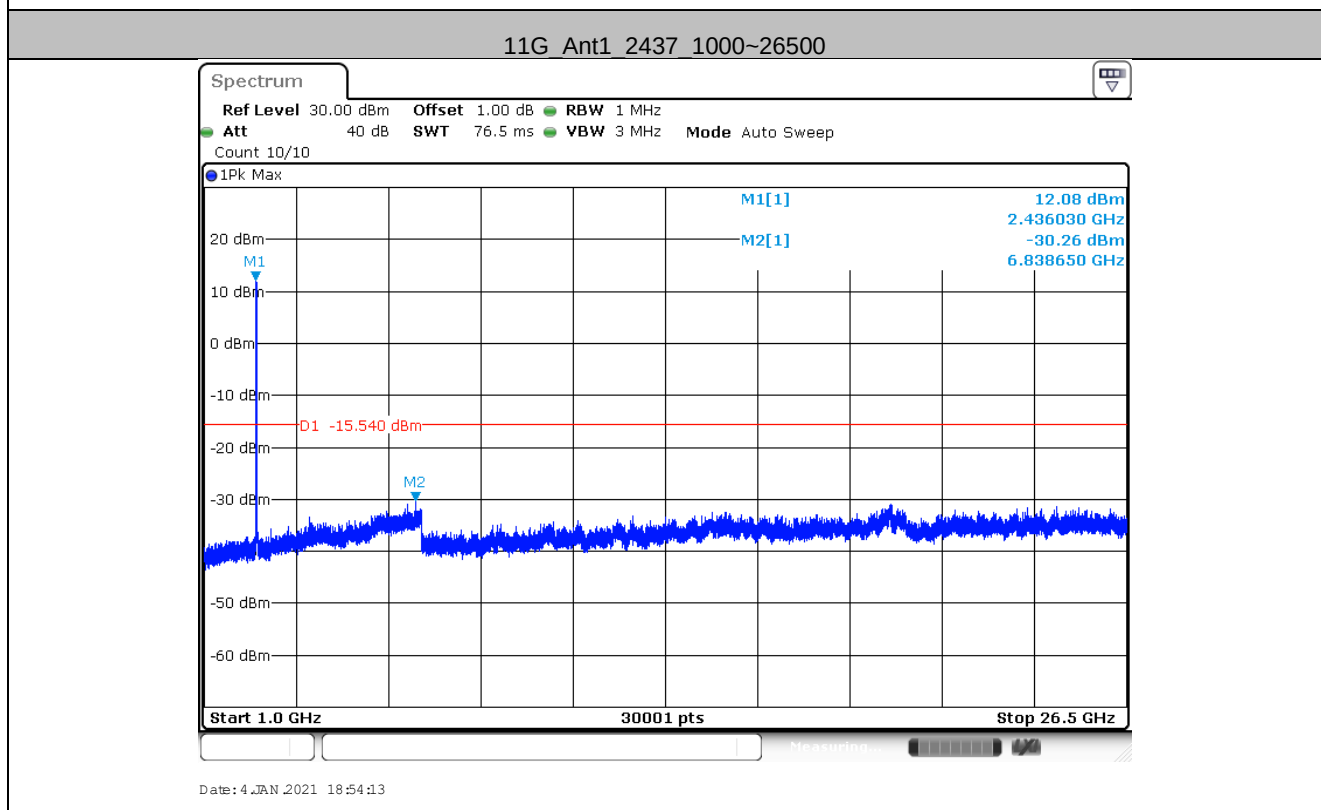
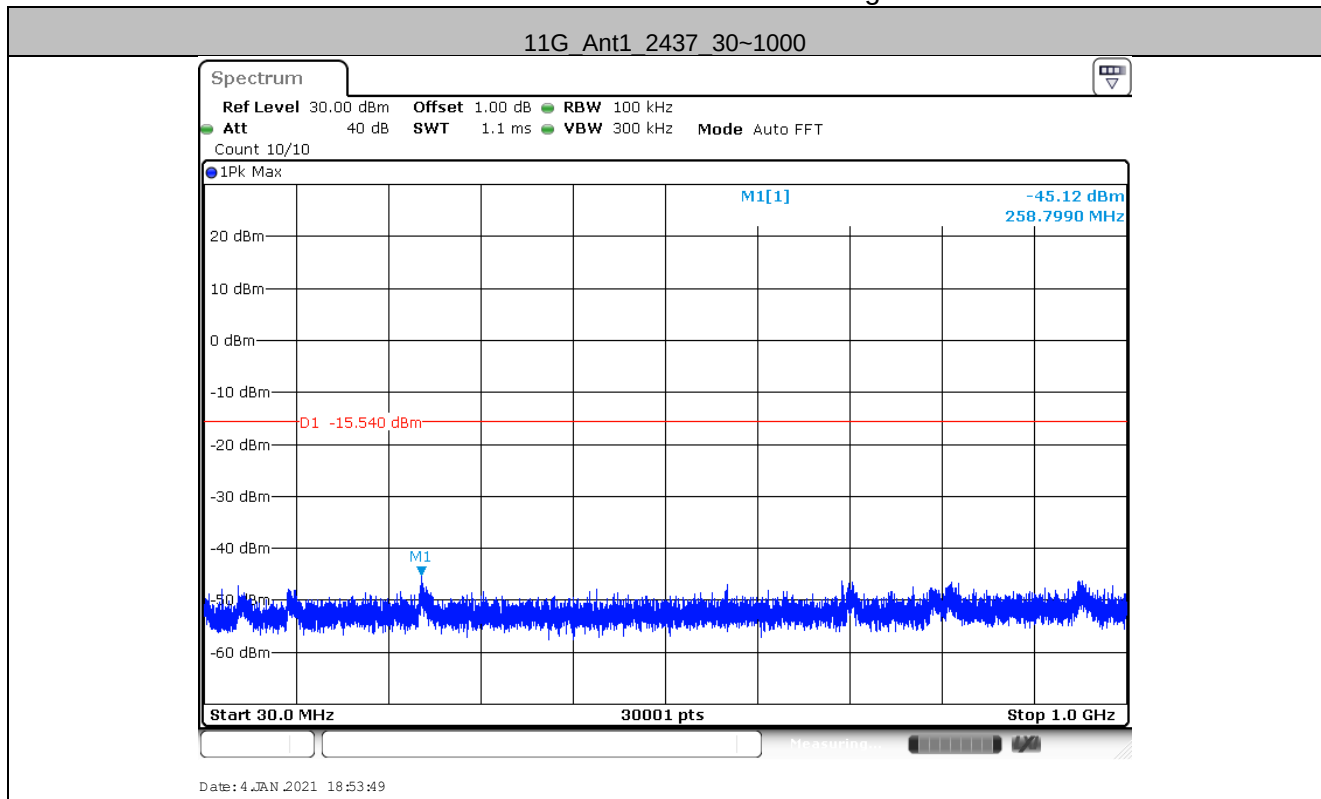


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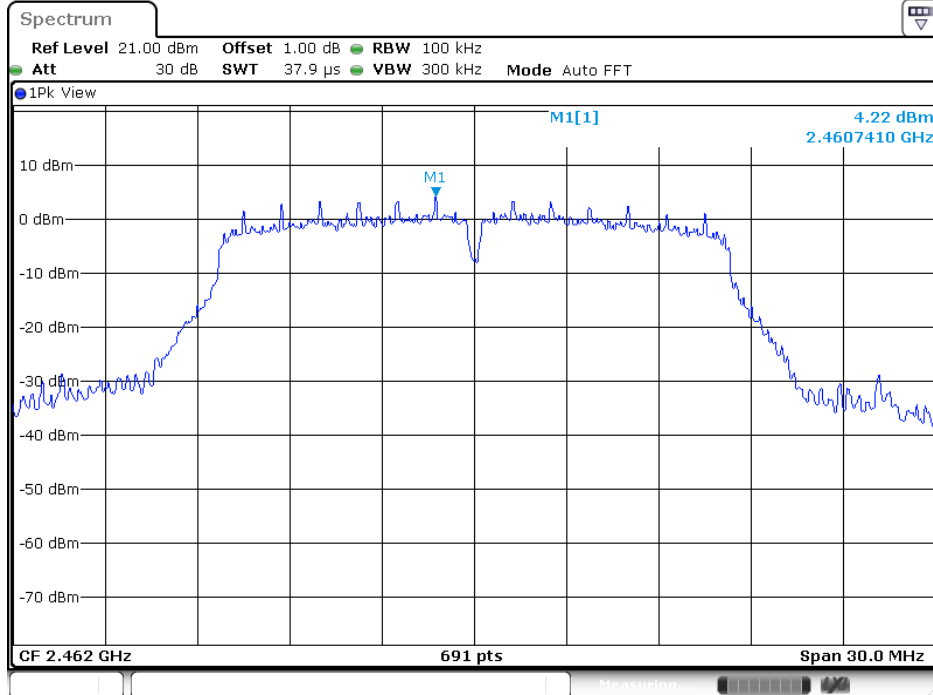
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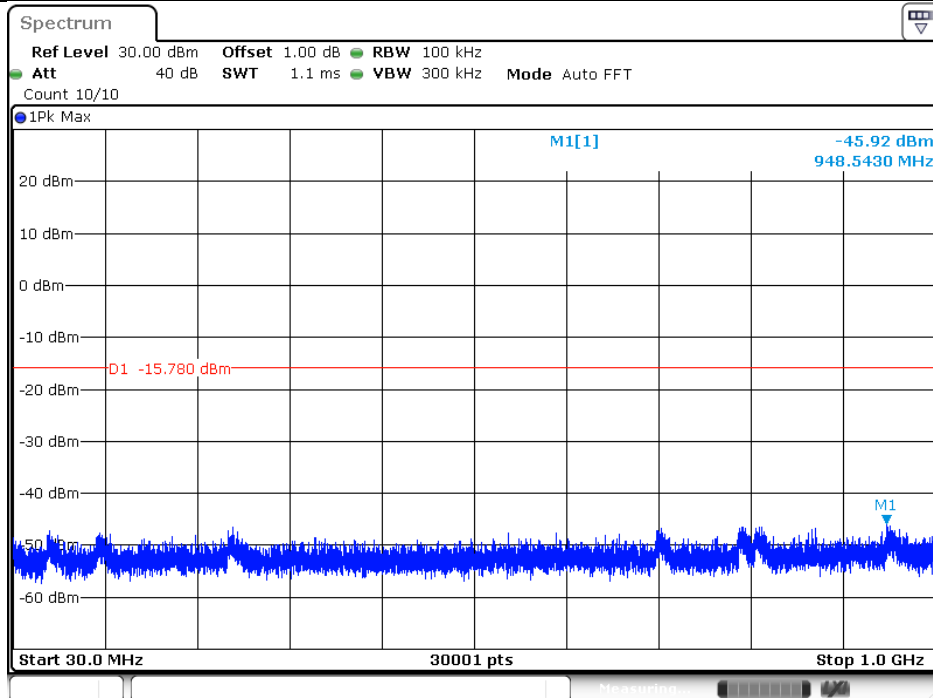
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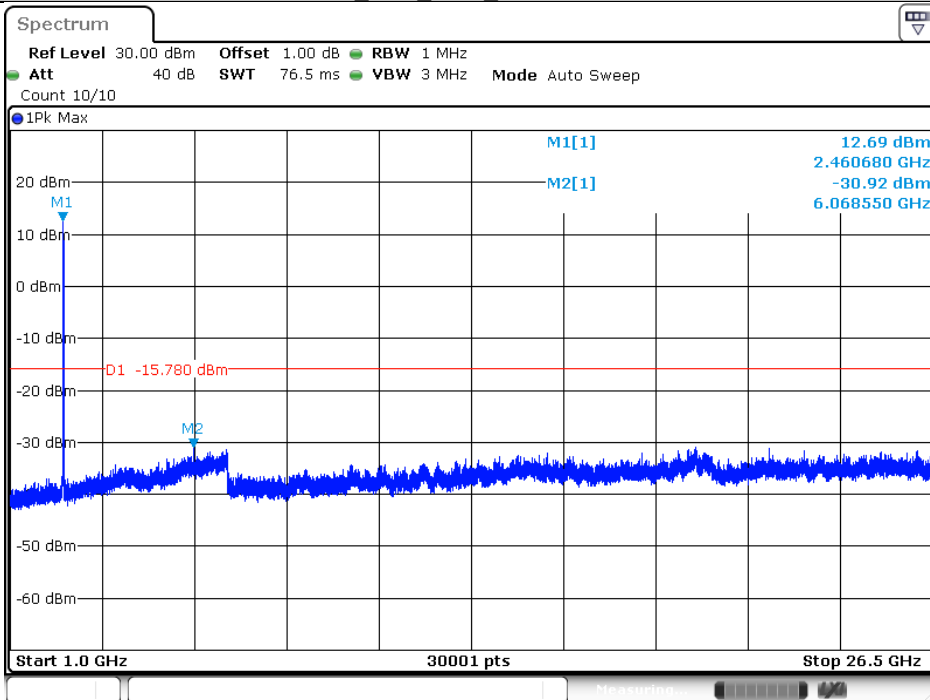
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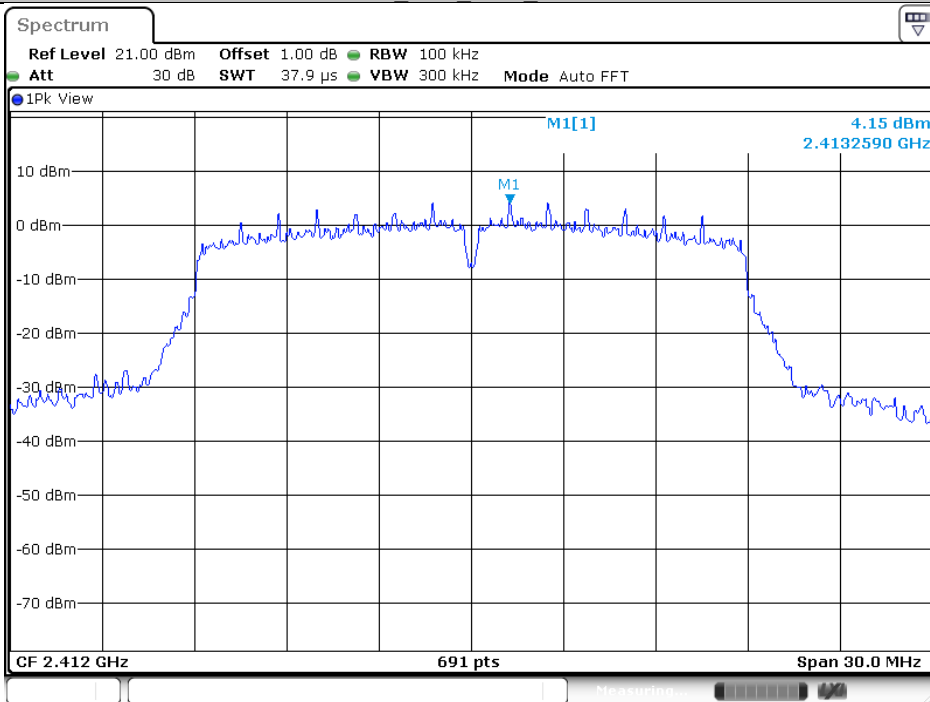
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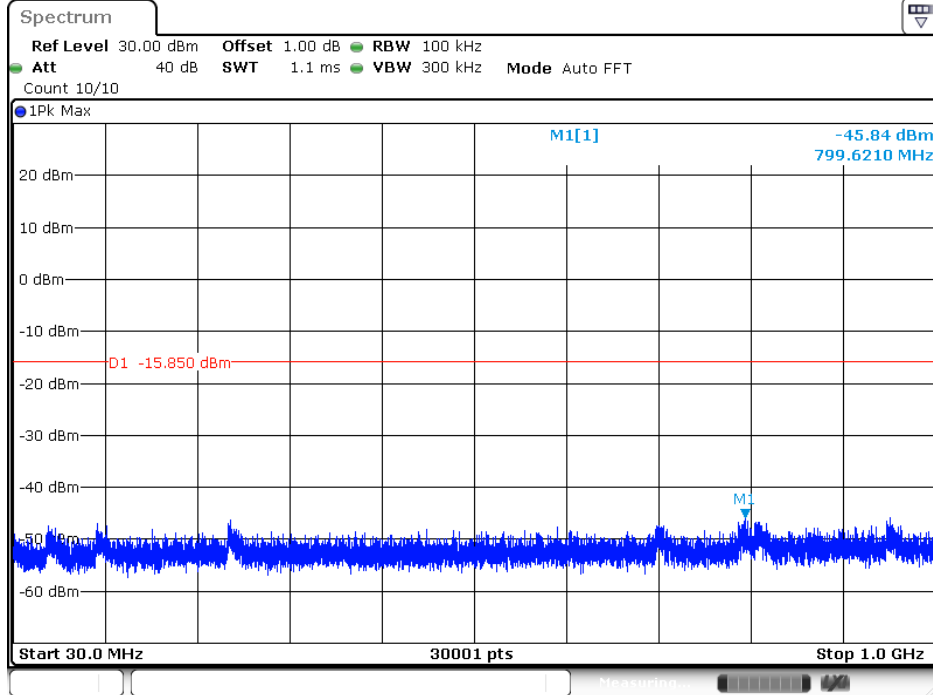
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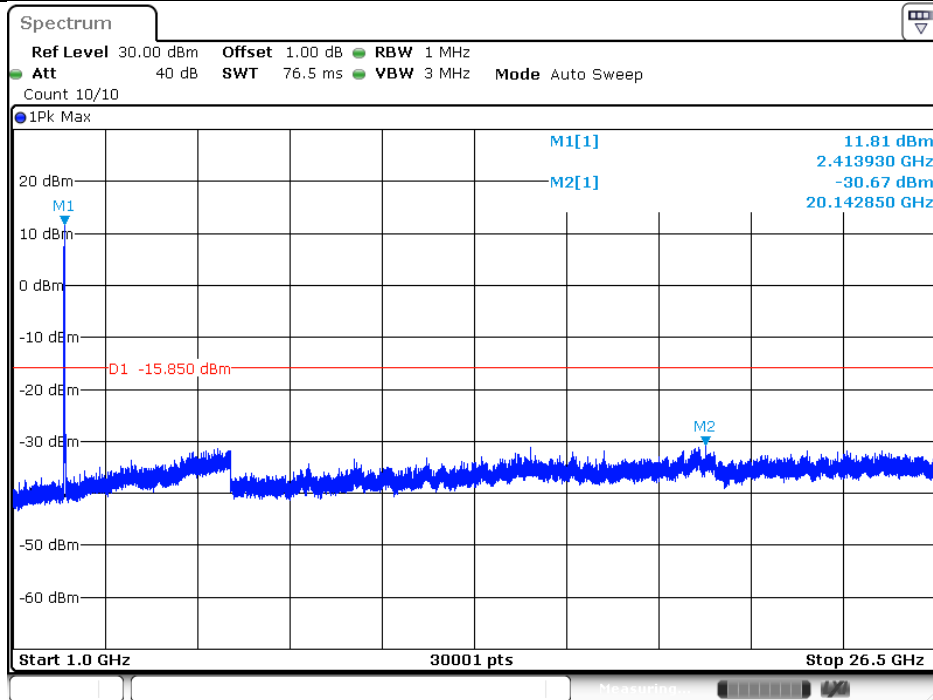
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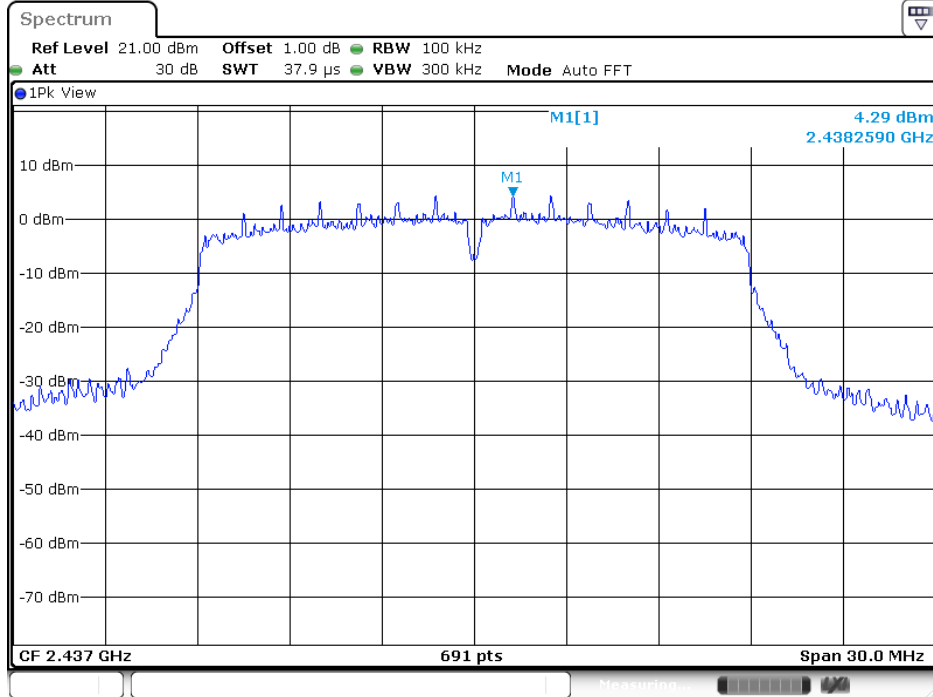
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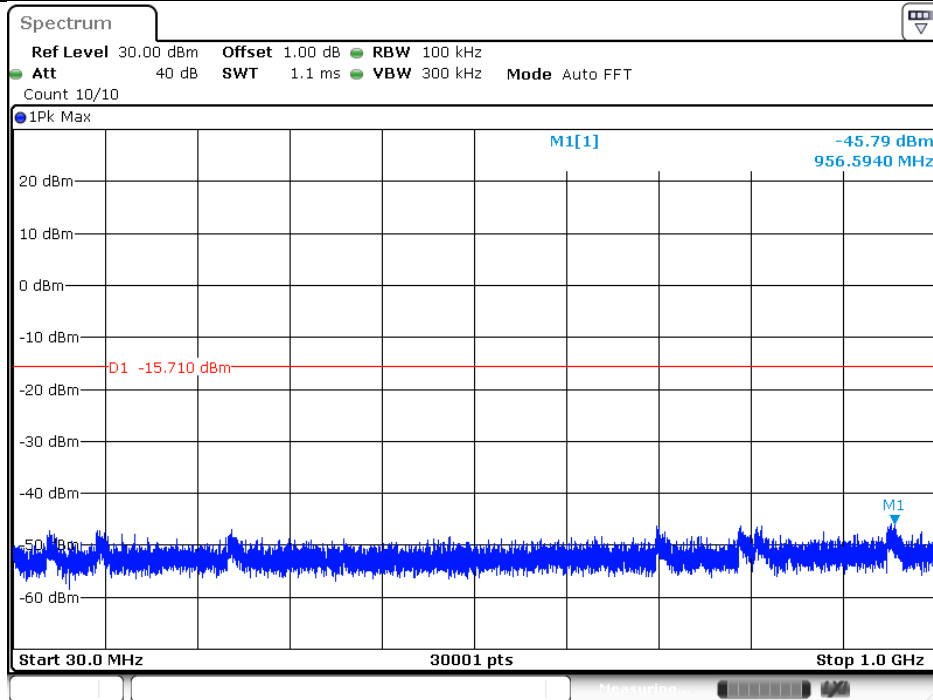
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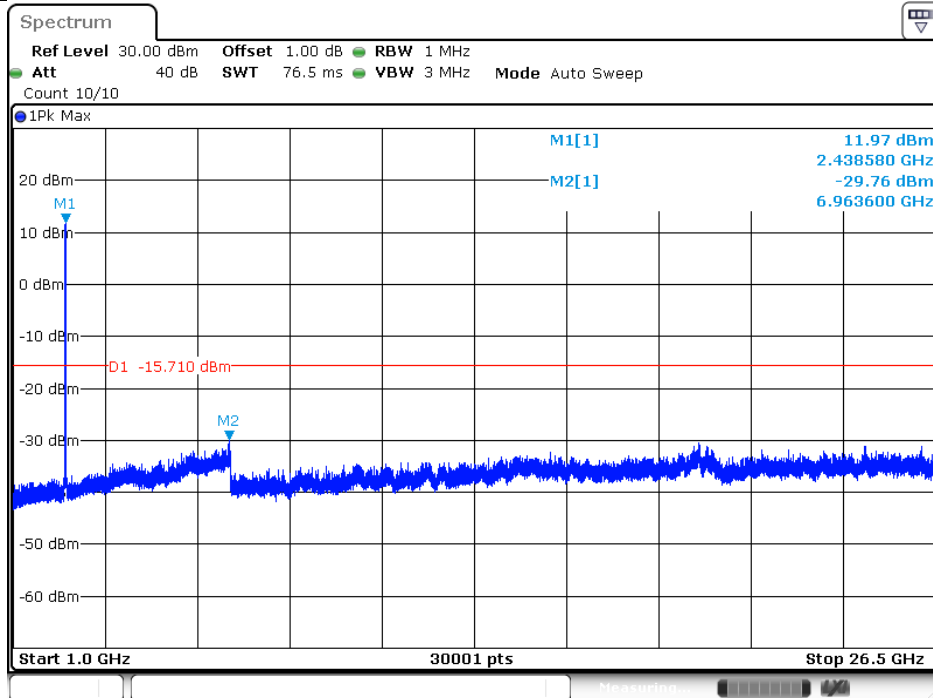
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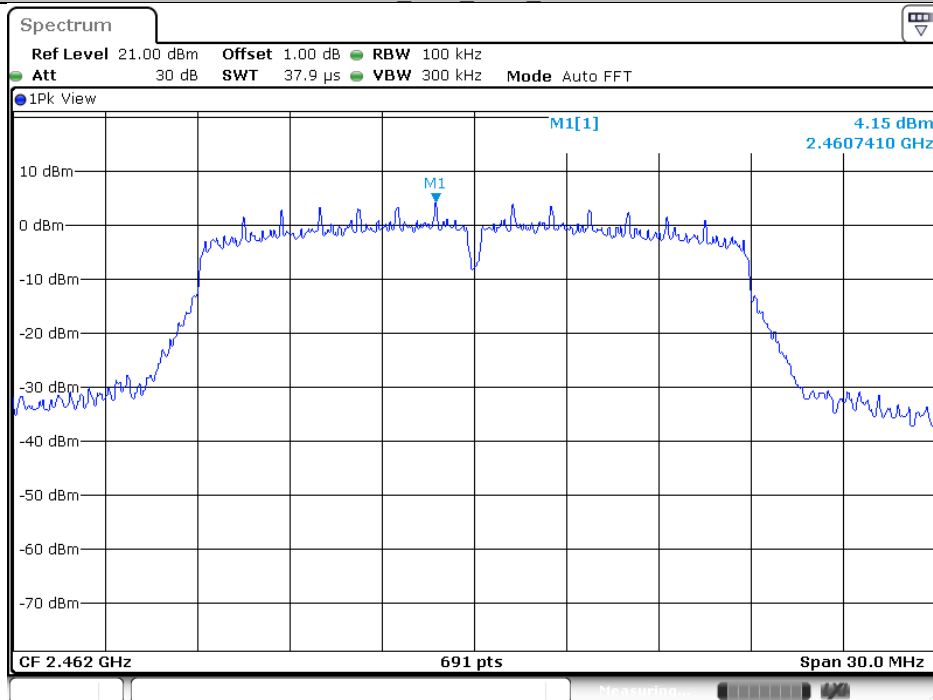
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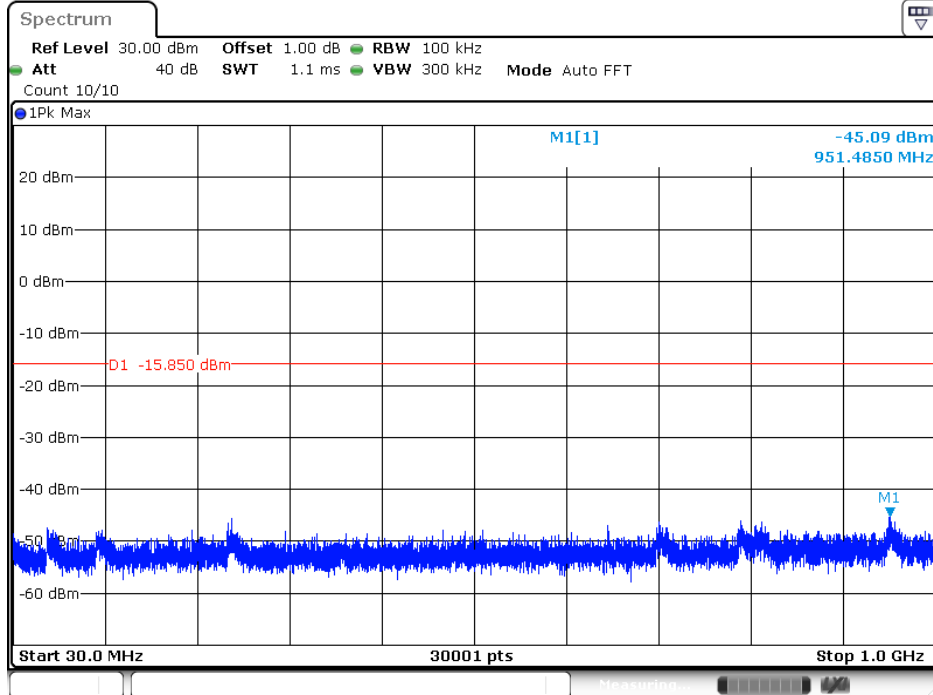
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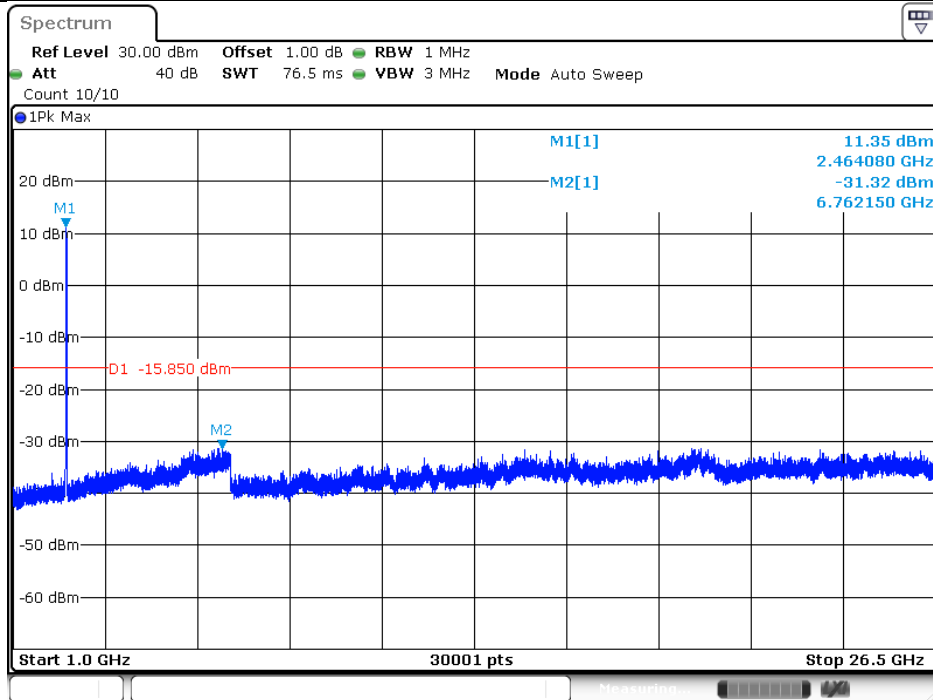
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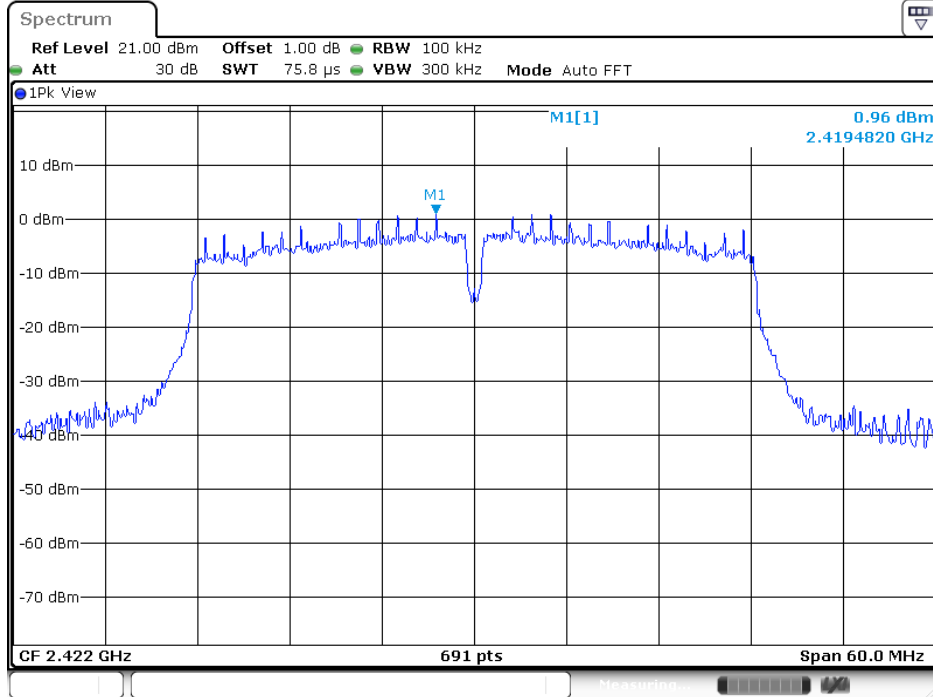
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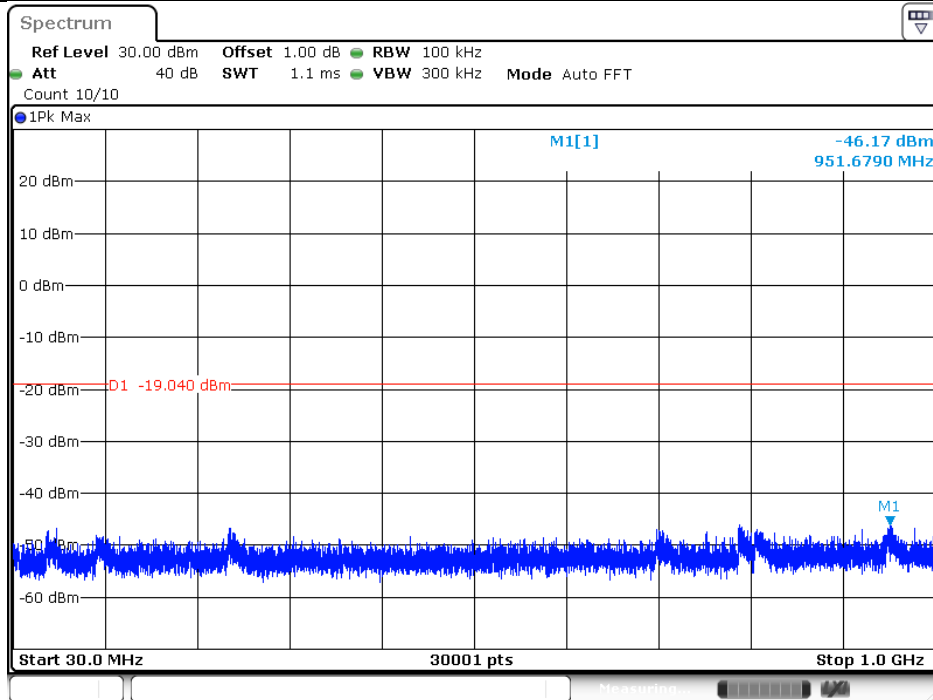
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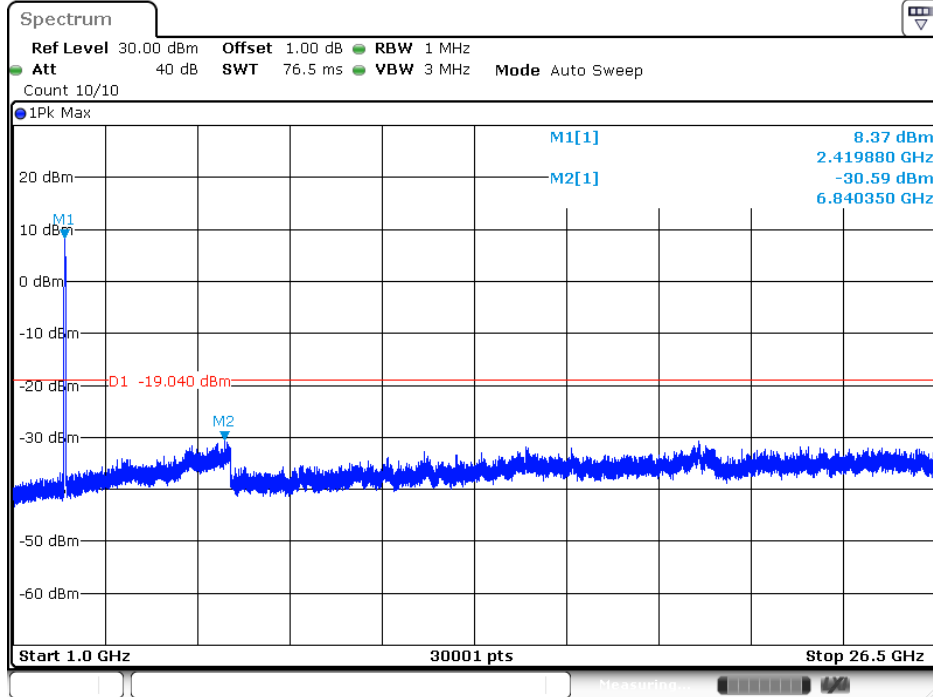
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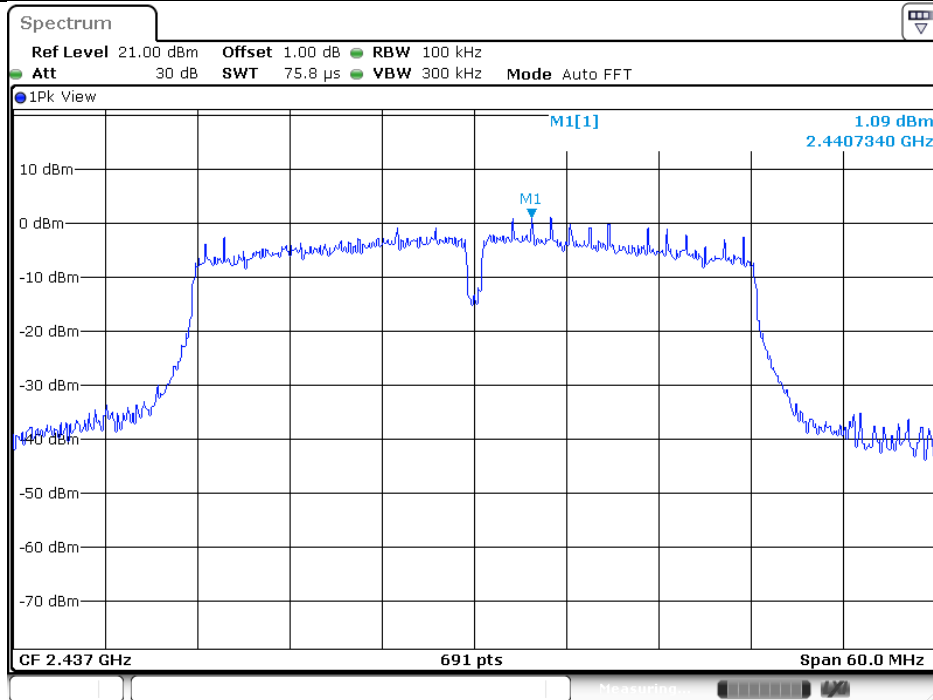
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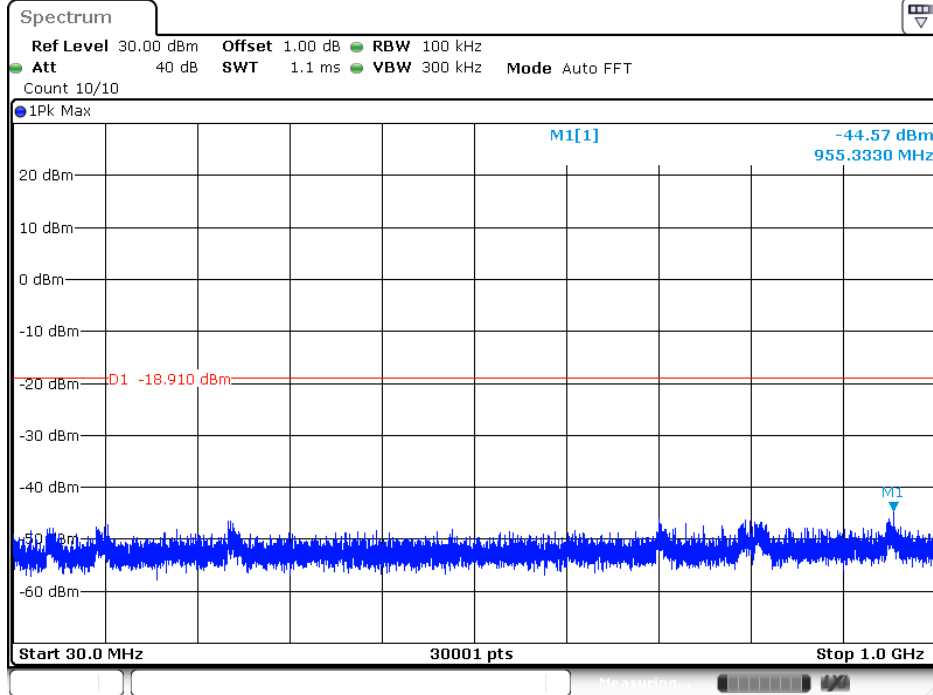
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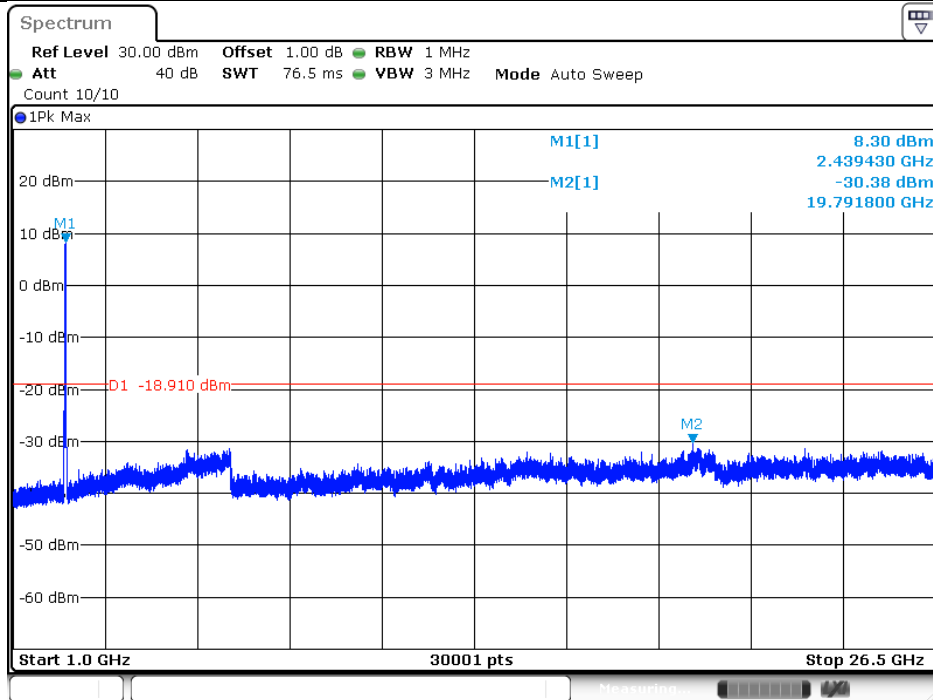
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11N40SISO Ant1 2437 1000~26500



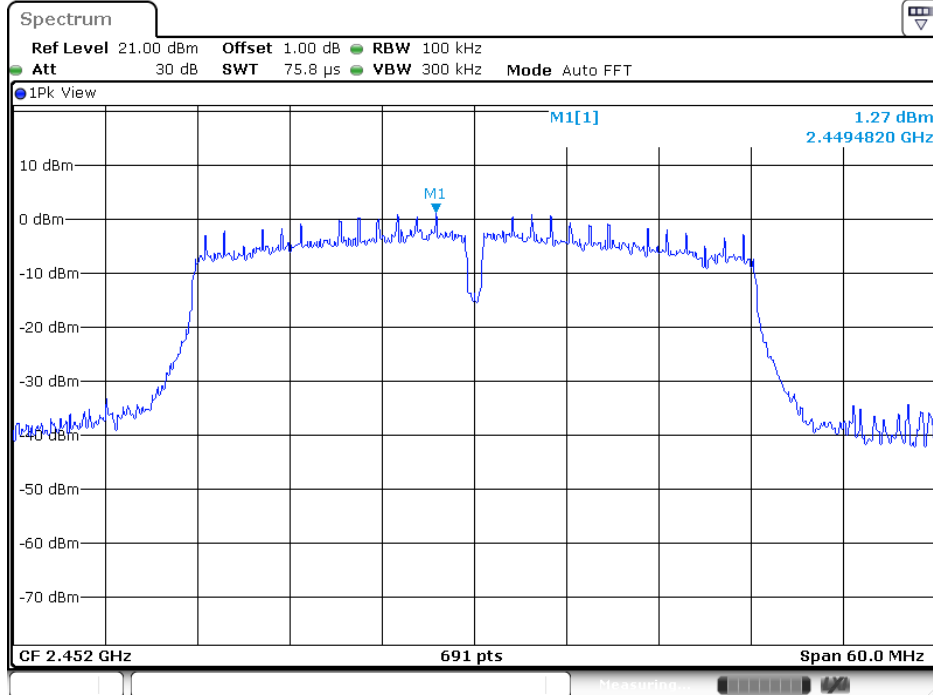
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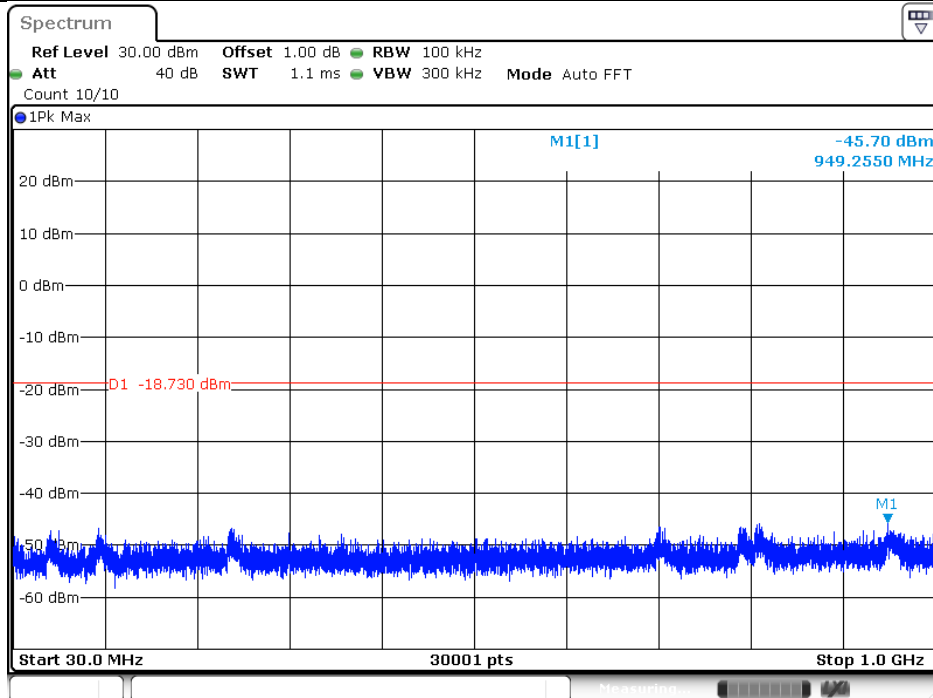
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11N40SISO Ant1 2452 0~Reference

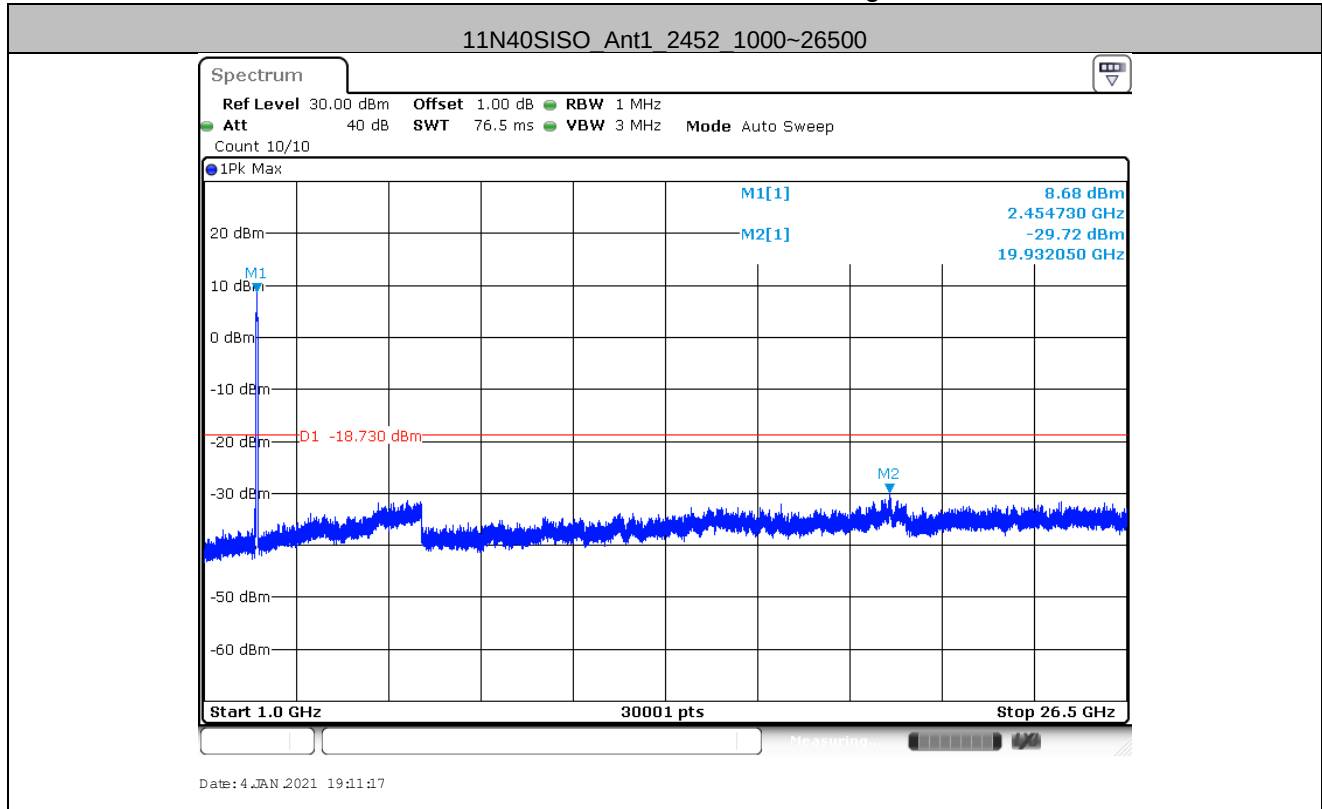


11N40SISO Ant1 2452 30~1000



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Duty Cycle Test Result

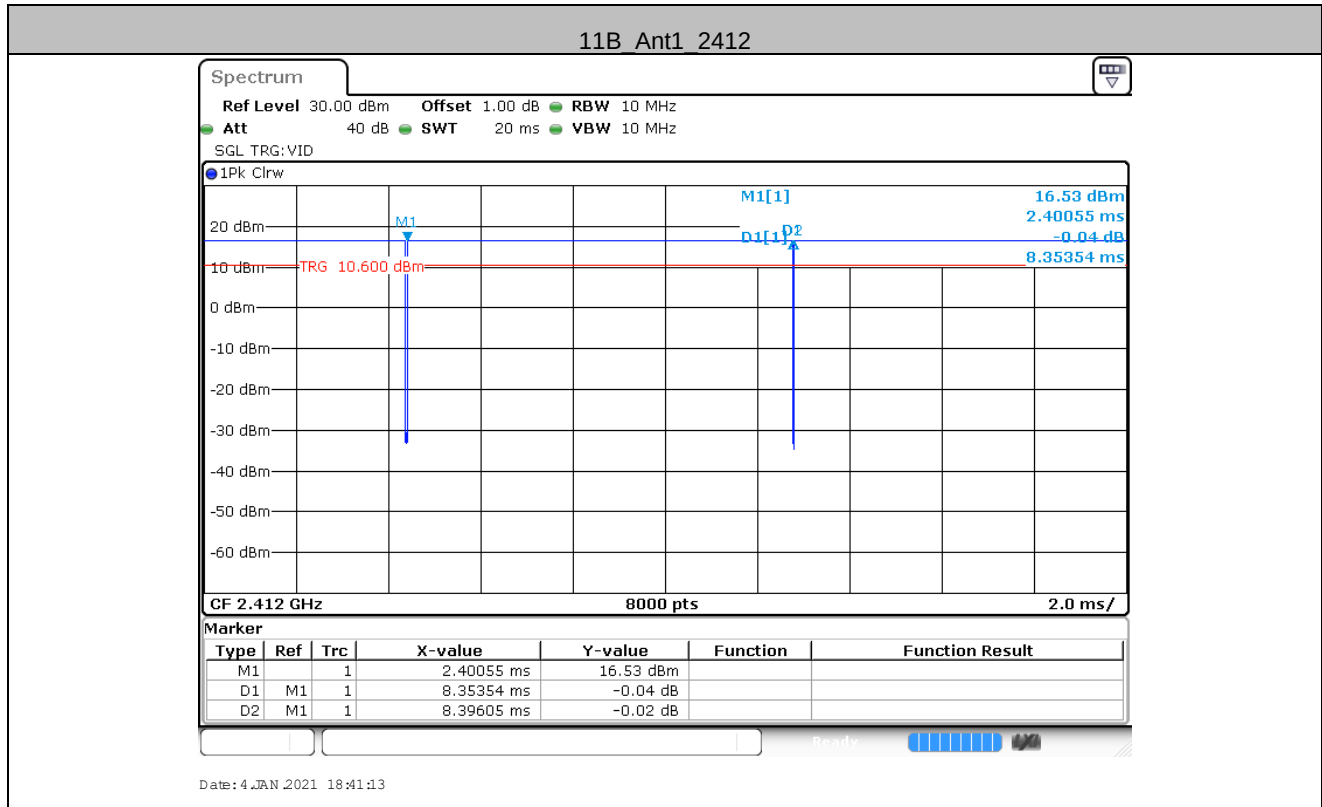
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.35	8.40	99.40	---	PASS
		2437	8.35	8.40	99.40	---	PASS
		2462	8.35	8.40	99.40	---	PASS
11G	Ant1	2412	1.38	1.43	96.50	---	PASS
		2437	1.38	1.43	96.50	---	PASS
		2462	1.38	1.43	96.50	---	PASS
11N20SISO	Ant1	2412	1.29	1.34	96.27	---	PASS
		2437	1.29	1.34	96.27	---	PASS
		2462	1.29	1.34	96.27	---	PASS
11N40SISO	Ant1	2422	0.64	0.69	92.75	---	PASS
		2437	0.64	0.69	92.75	---	PASS
		2452	0.64	0.69	92.75	---	PASS



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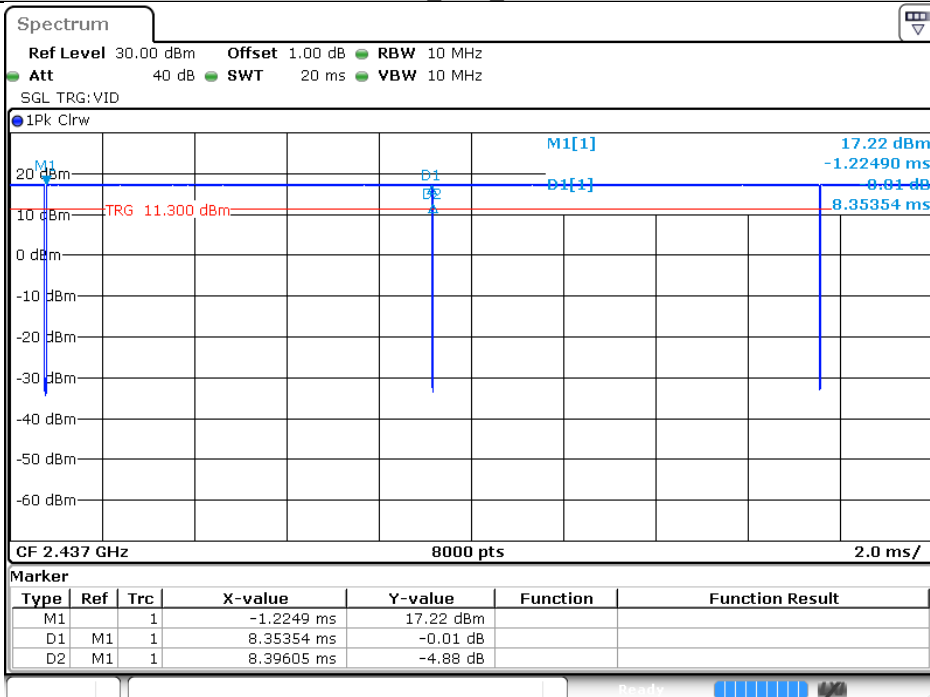
Test Graphs



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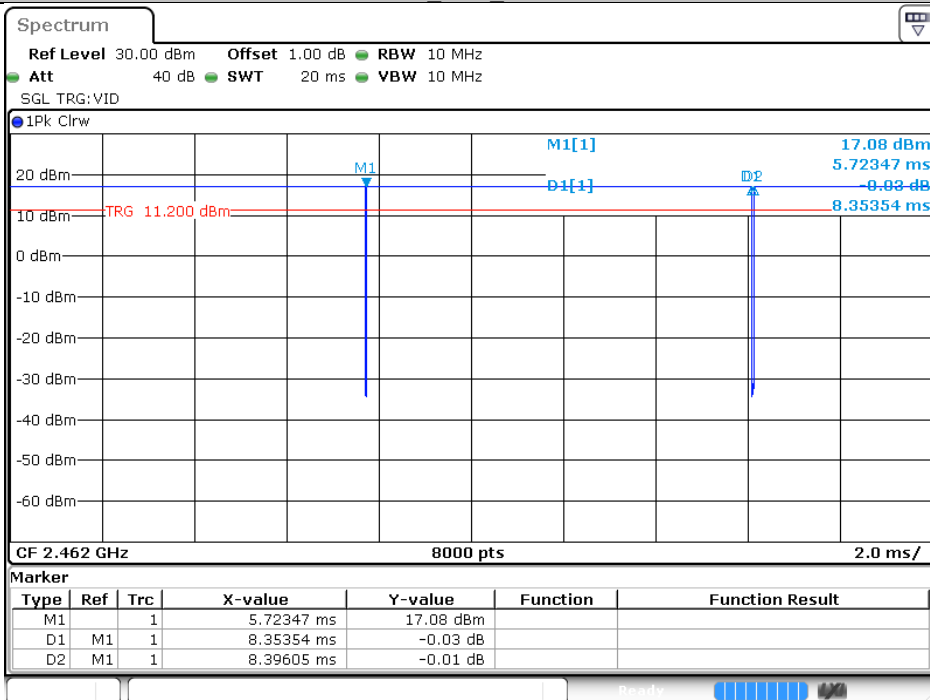
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11B Ant1 2437



Date: 4 JAN 2021 18:45:56

11B Ant1 2462

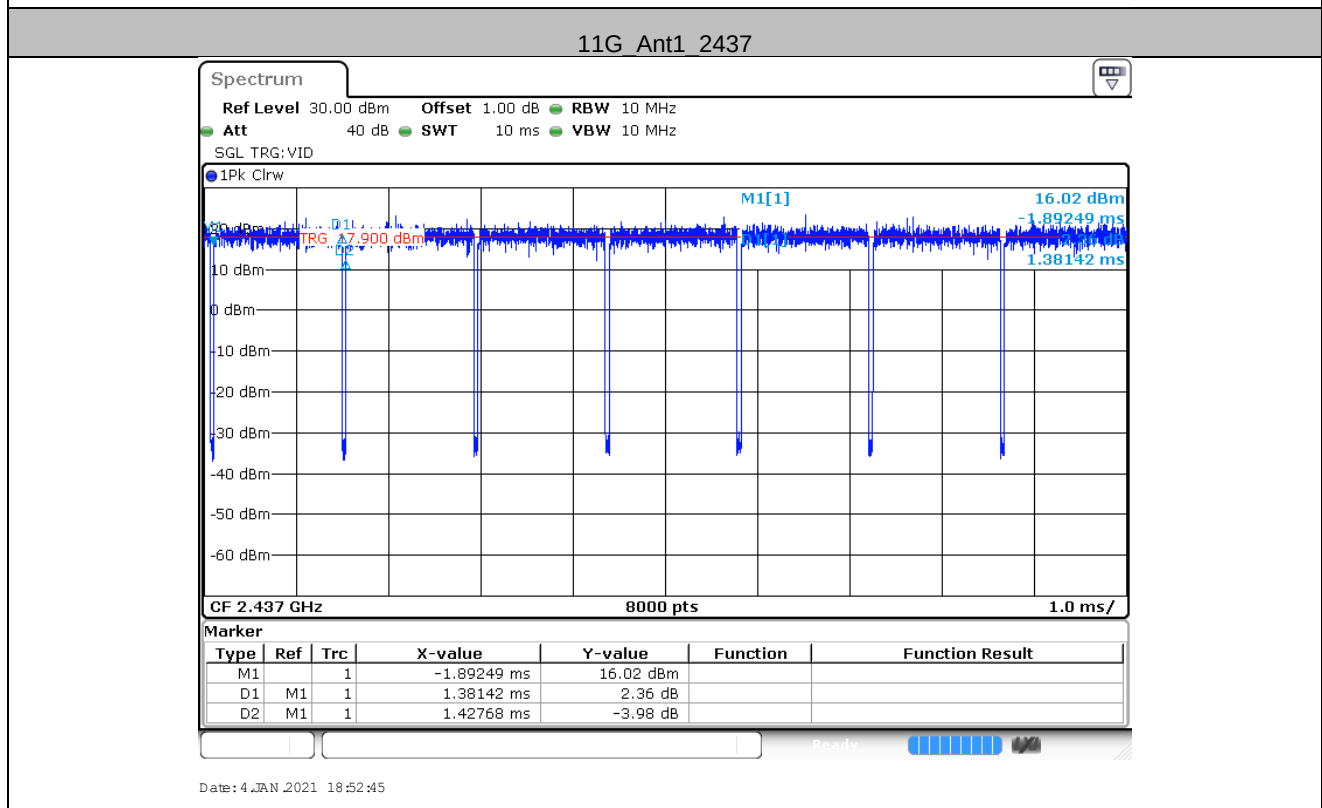
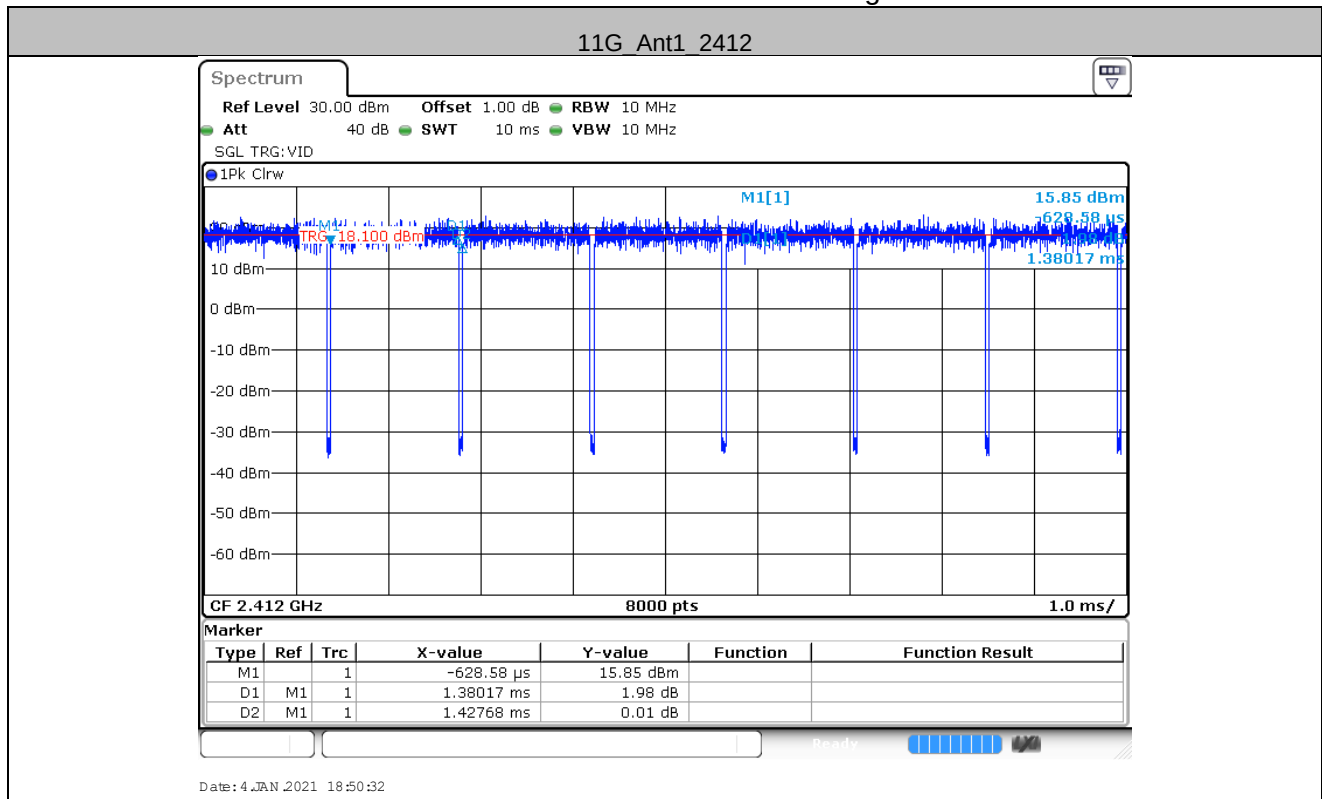


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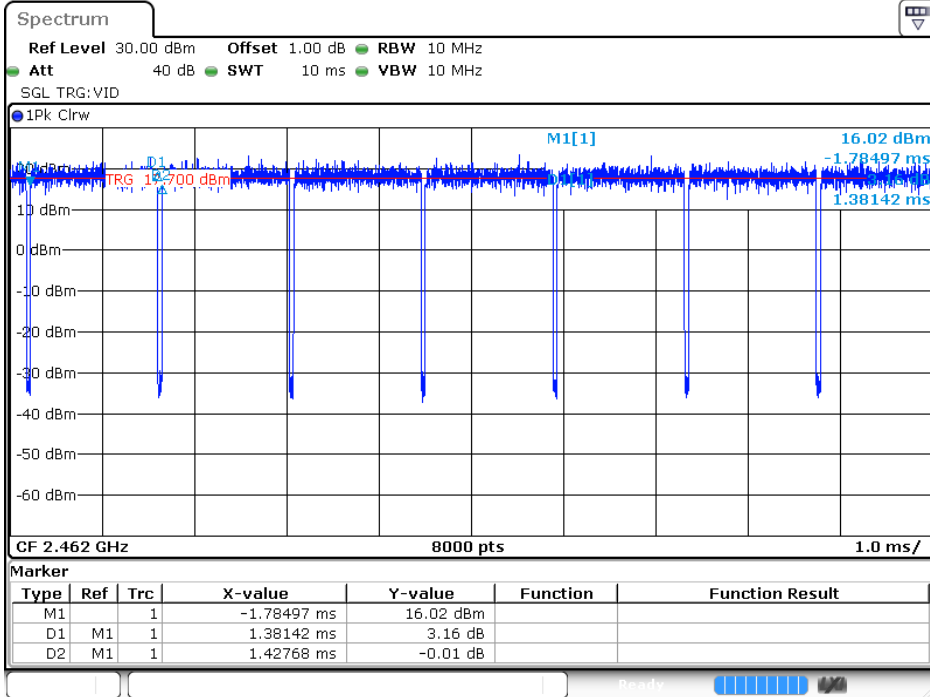
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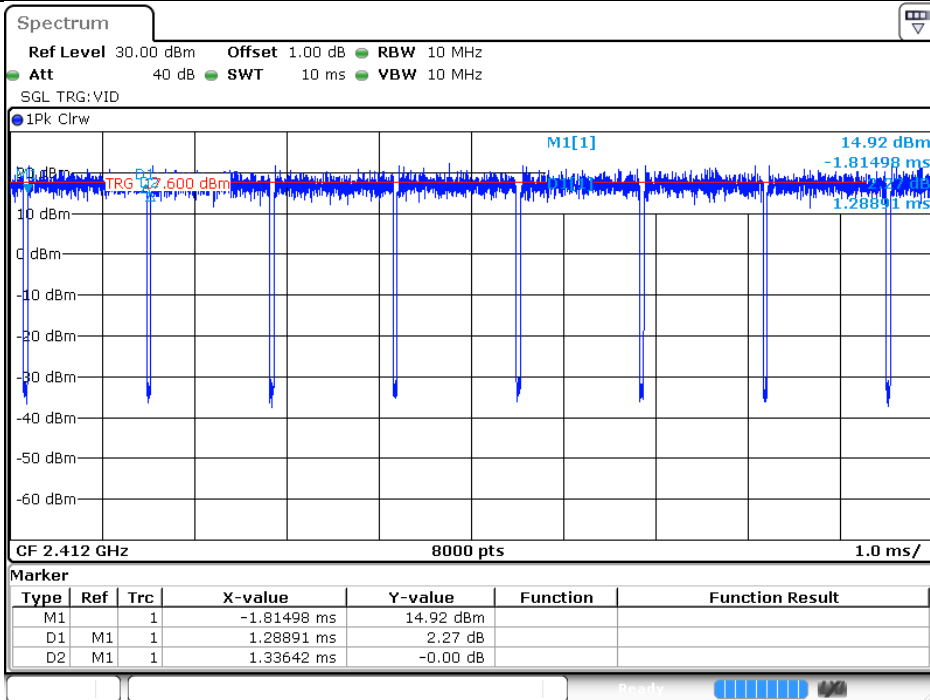
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11G Ant1 2462



Date: 4 JAN 2021 18:54:43

11N20SISO Ant1 2412



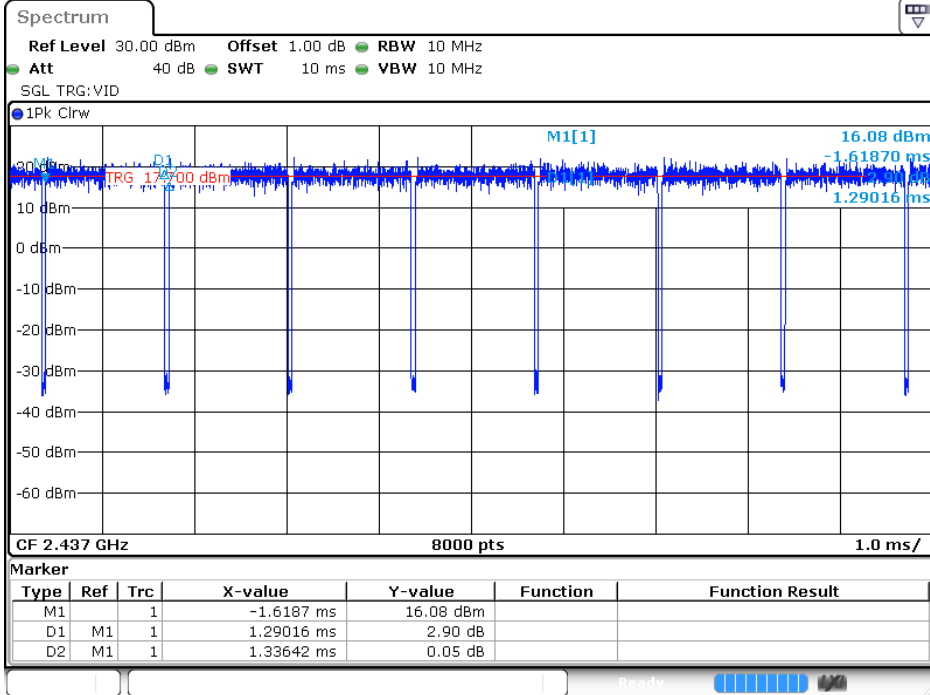
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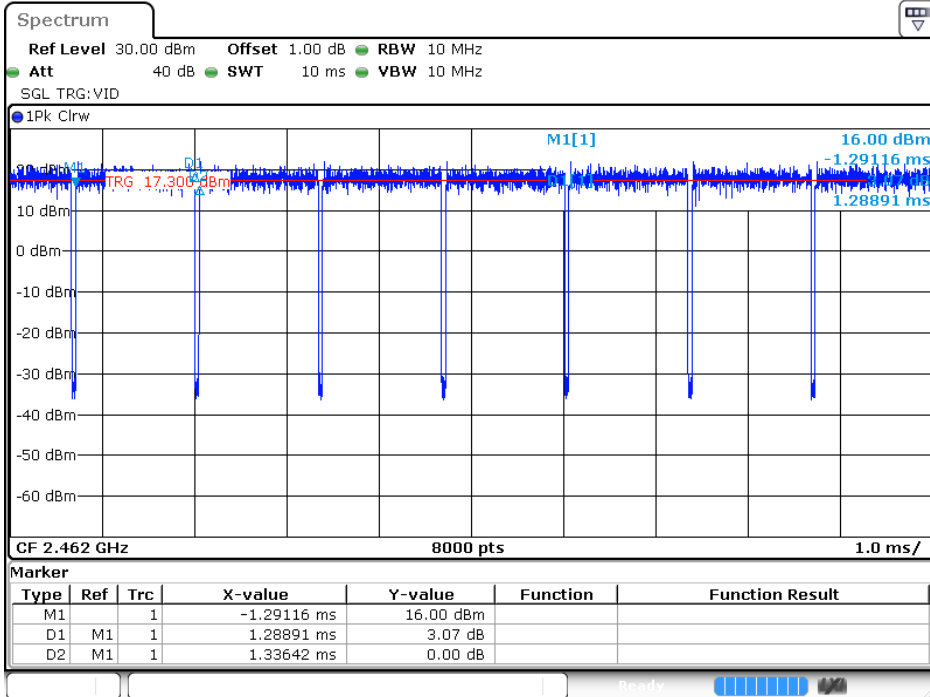
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11N20SISO Ant1 2437



Date: 4 JAN 2021 19:00:02

11N20SISO Ant1 2462



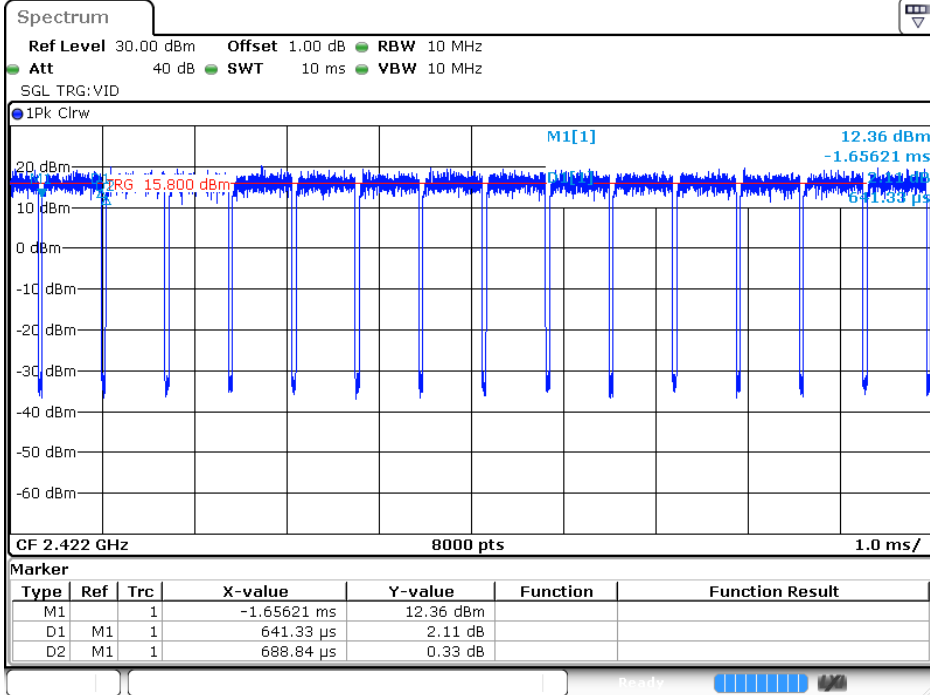
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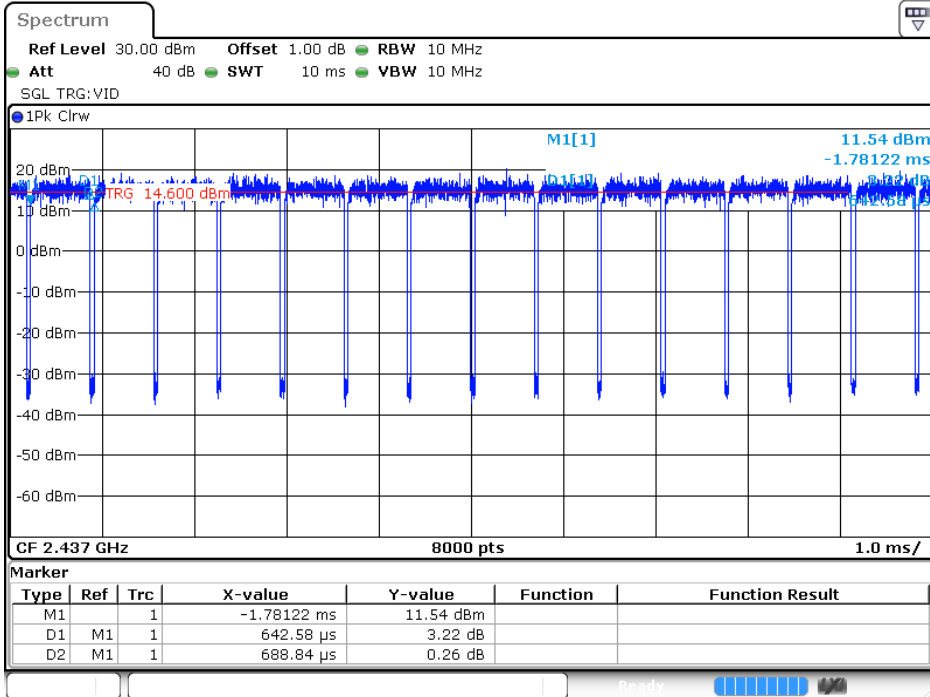
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11N40SISO Ant1 2422

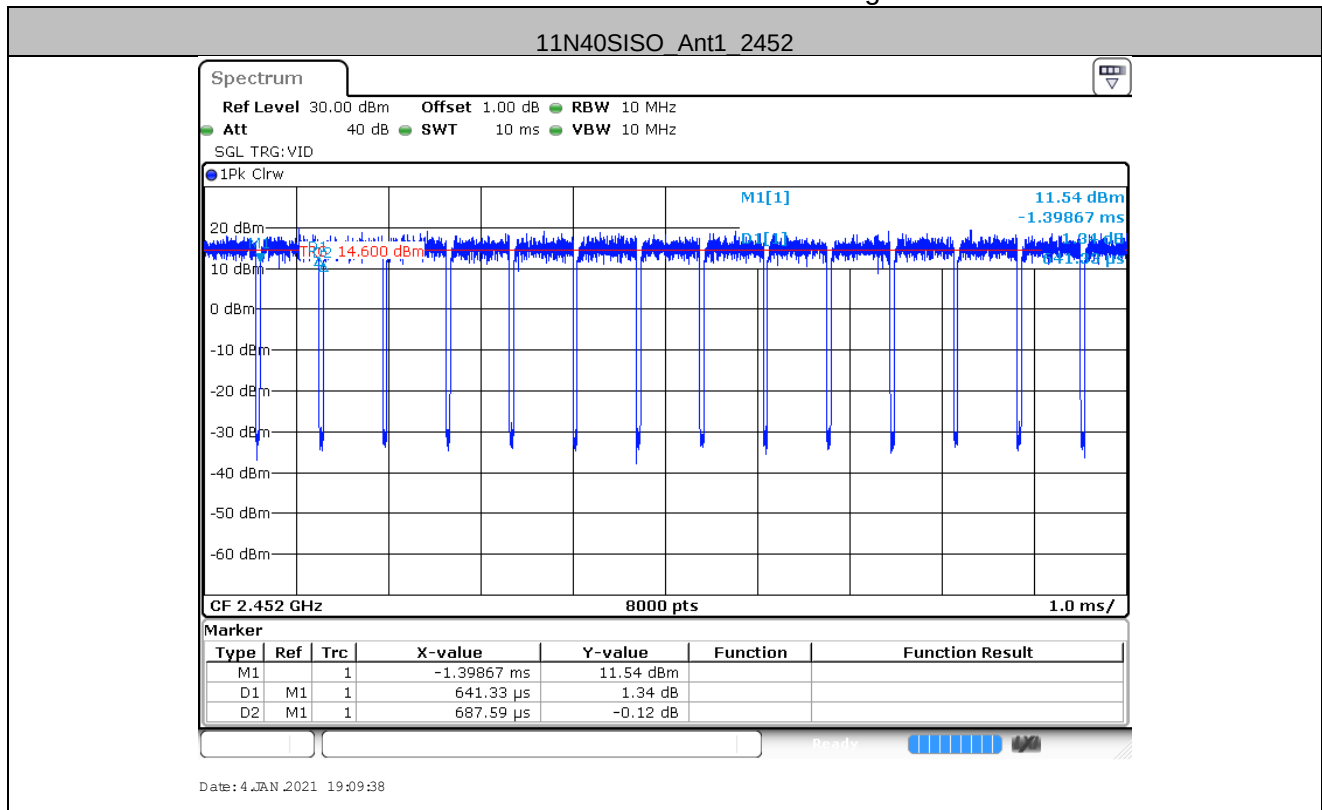


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