FCC TEST REPORT

Application No.:	AR/2020/C0006
Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description:	Mobile Phone
Model No.:	M2010J19SY
Trade Mark:	Redmi
FCC ID:	2AFZZJ19SY
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
Date of Receipt:	2020/12/11
Date of Test:	2020/12/11 to 2020/12/31(for original report AR/2020/C000404-01) 2020/12/20 to 2020/12/31(for new report AR/2020/C000604-01)
Date of Issue:	2021/4/27
Test Result :	**PASS ***

* 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		2021/1/7		Original
02		2021/4/27	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/C000604, issued on 2021-1-7, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		Kevin. lan **(Kevin.Lan) /Engineer**
Checked By		David Chen **(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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Remark:
This test report (Report No.: AR/2020/C000604-01) is base on the original test report (Report No.: AR/2020/C000404-01).
Review this report and original report, this report just changing the parts according to the declaration letter from client.
According to the applicant’s statement, model numbers: M2010J19SY(FCC ID: 2AFZZJ19SY) and M2010J19SL(FCC ID: 2AFZZJ19SL)
Taking into account the differences, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.
Therefore in this report only the power was retested and radiated spurious emissions were performed based on the worst case(802.11N40:Channel:9/Channel:3) of the original report with report number AR/2020/C000404-01 and other test data in this report are base on the previous report with report number AR/2020/C000404-01.

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

Applicant:	Xiaomi Communications Co., Ltd.
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Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

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:	Mobile Phone
Model No.:	M2010J19SY
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI12
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 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 IEEE for 802.11N(HT40) : OFDM
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	PIFA Antenna
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:	1.0dBi
Power Supply	☒ AC/DC Adapter; ☐ Battery ☐ PoE:; ☐ Other:

Operation Frequency of each channel (802.11B/G/N HT20)							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11N HT40)							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

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Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11B/G/N (HT20)	Frequency for 802.11N (HT40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

3.5 Test Environment and Mode

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

3.6 Description of Support Units

The EUT has been tested independent unit.

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4 Test results and Measurement Data

4.1 Antenna Requirement

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 1.0dBi.	

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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.		

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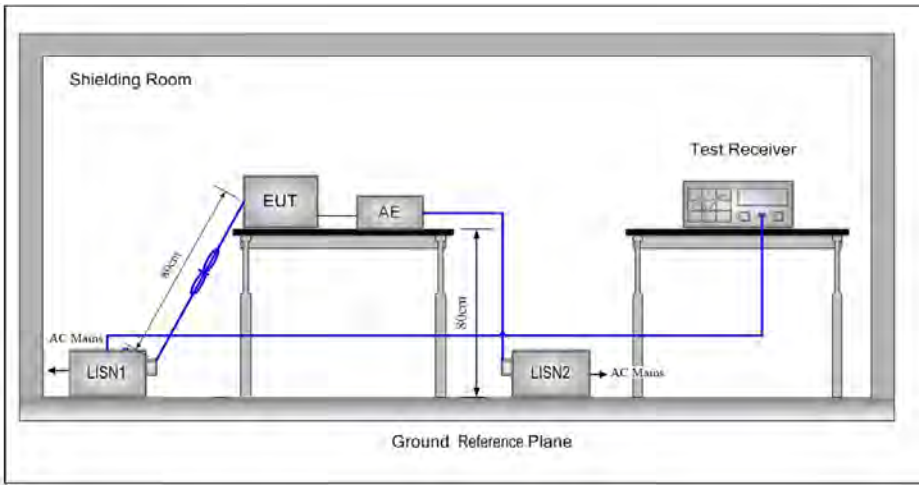
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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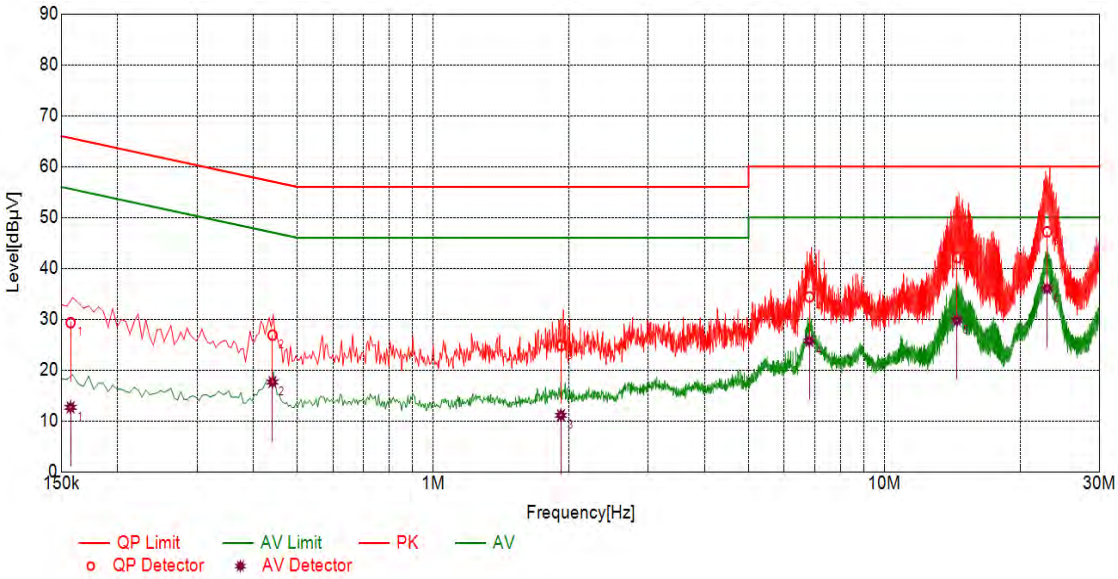
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Test Graph

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

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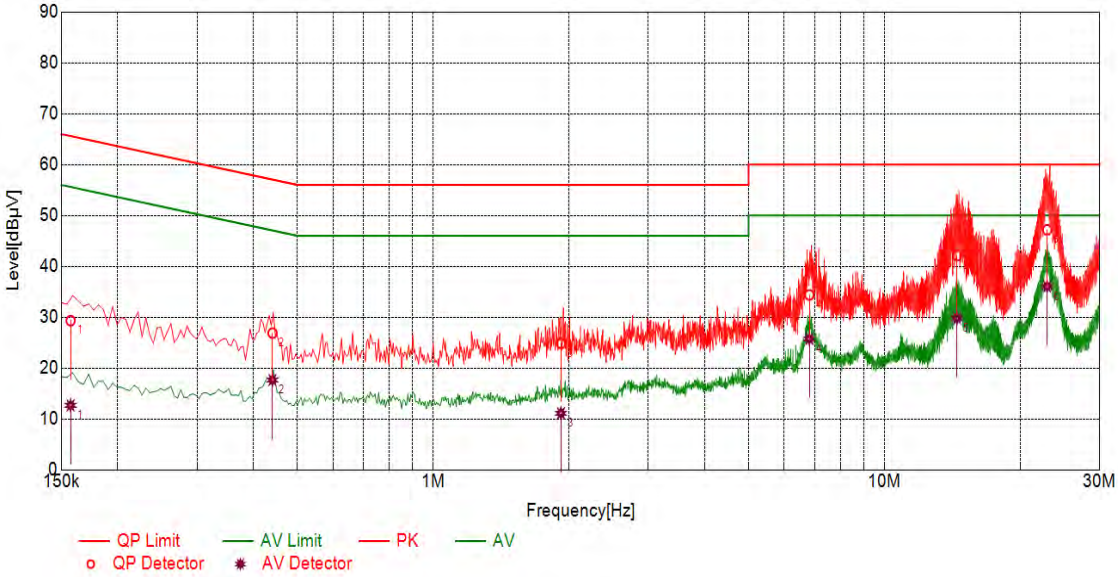
Neutral Line:



Test Graph

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

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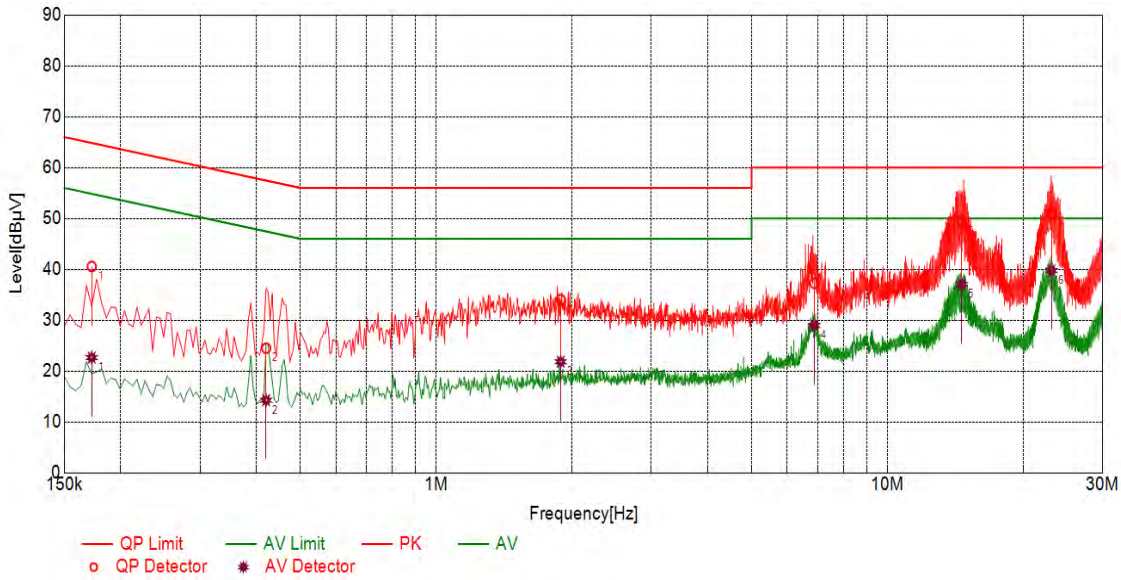
Test on the worst case:

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	0.1726	10.10	40.56	64.84	24.28	22.65	54.84	32.19	L
2	0.4201	10.10	24.50	57.45	32.95	14.27	47.45	33.18	L
3	1.8889	10.10	34.05	56.00	21.95	21.83	46.00	24.17	L
4	6.8897	10.10	37.26	60.00	22.74	28.97	50.00	21.03	L
5	14.6158	10.11	49.37	60.00	10.63	37.04	50.00	12.96	L
6	23.1199	10.11	51.04	60.00	8.96	39.75	50.00	10.25	L

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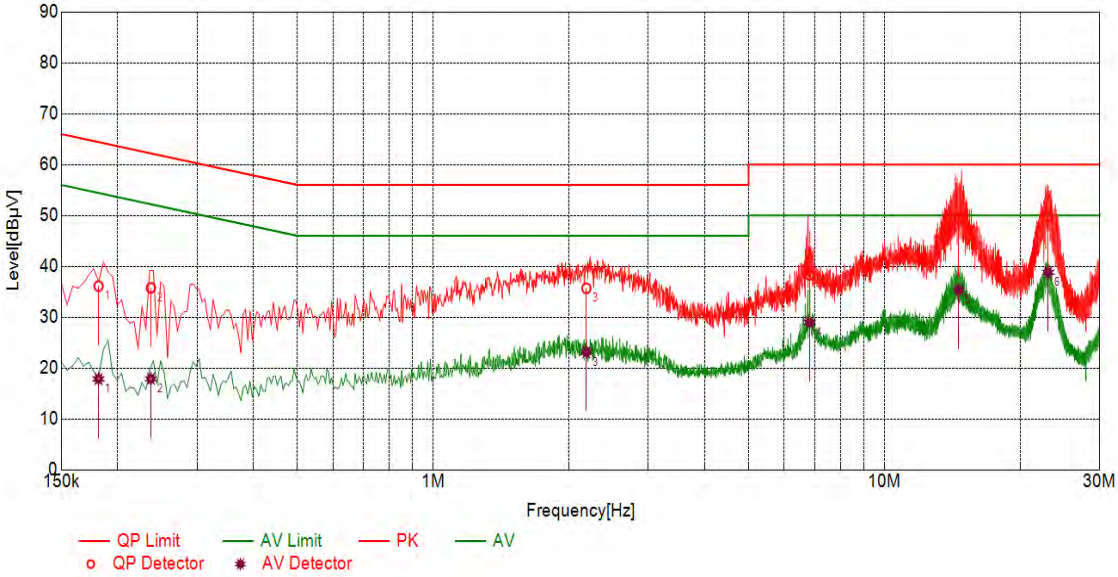
Neutral Line:



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	0.1814	10.10	36.11	64.42	28.31	17.87	54.42	36.55	N
2	0.2370	10.10	35.78	62.20	26.42	17.88	52.20	34.32	N
3	2.1855	10.10	35.68	56.00	20.32	23.10	46.00	22.90	N
4	6.8284	10.10	38.30	60.00	21.70	29.01	50.00	20.99	N
5	14.6202	10.11	49.41	60.00	10.59	35.31	50.00	14.69	N
6	23.0675	10.11	49.76	60.00	10.24	38.81	50.00	11.19	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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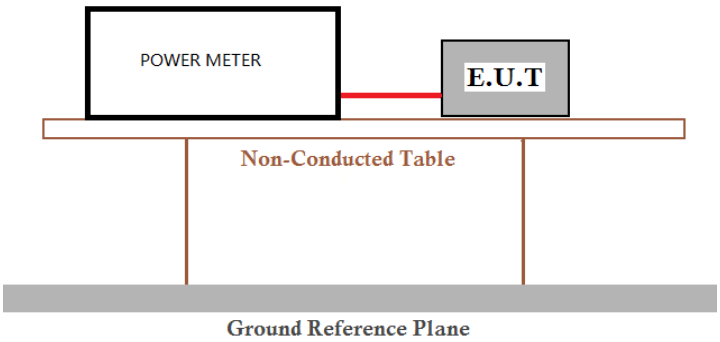
4.4 Conducted Output Power

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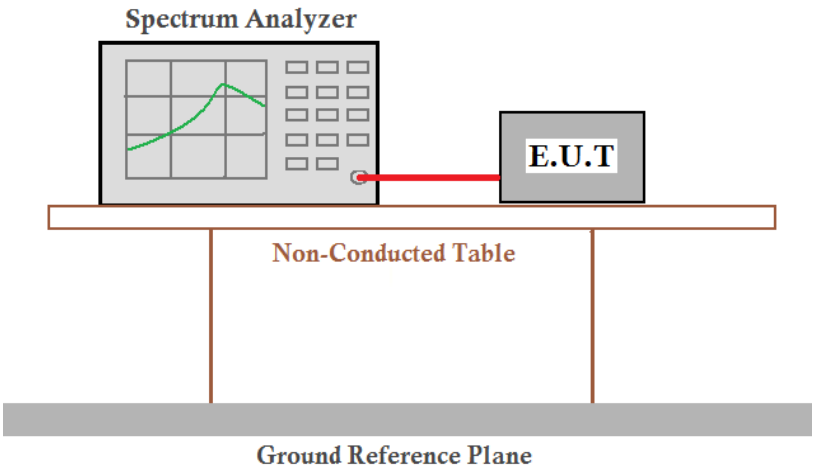
4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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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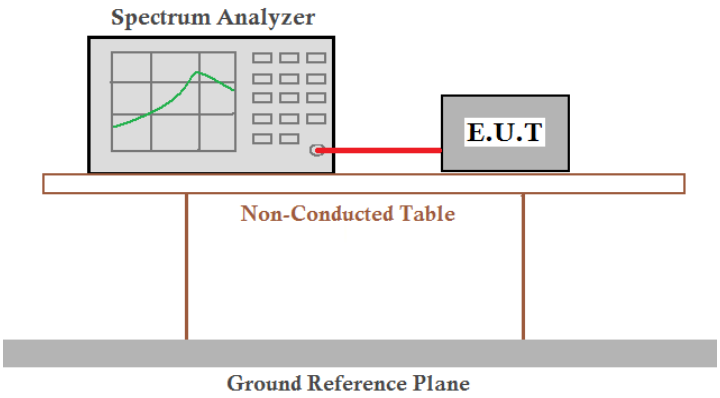
4.6 Power Spectral Density

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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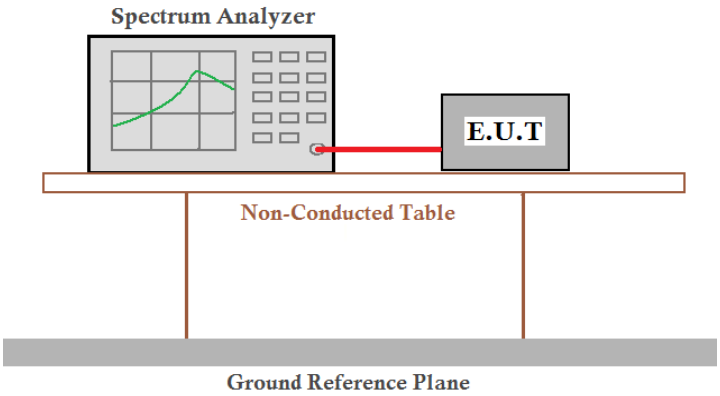
4.7 Band-edge for RF Conducted Emissions

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**

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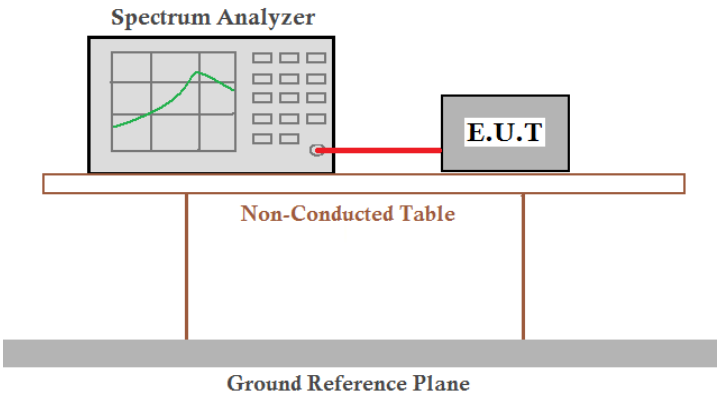
4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix**

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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100kHz	30kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz(Duty Cycle≥0.98) ≥1/T(Duty Cycle <0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

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Test Setup:	

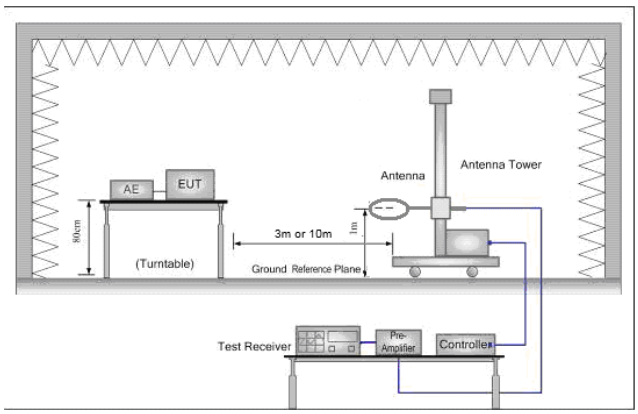

Figure 1. Below 30MHz

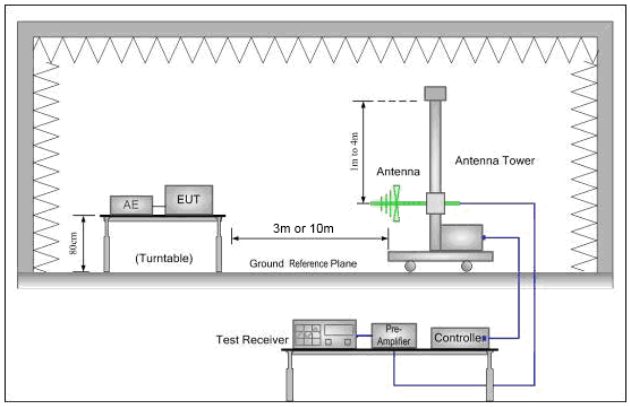

Figure 2. 30MHz to 1GHz

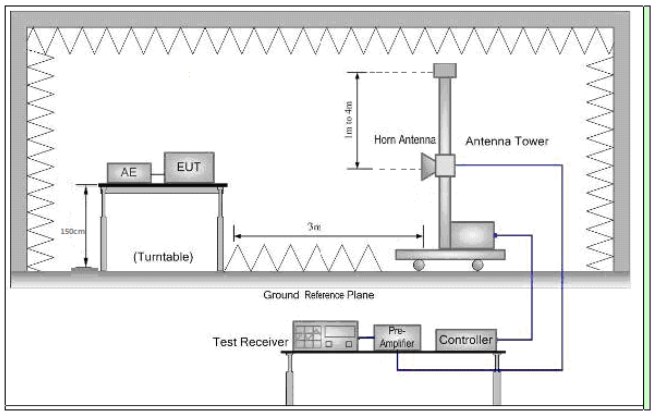

Figure 3. Above 1 GHz

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 camber. 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 camber. 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>1GHz ; VBW ⩾ 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).

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	Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN 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(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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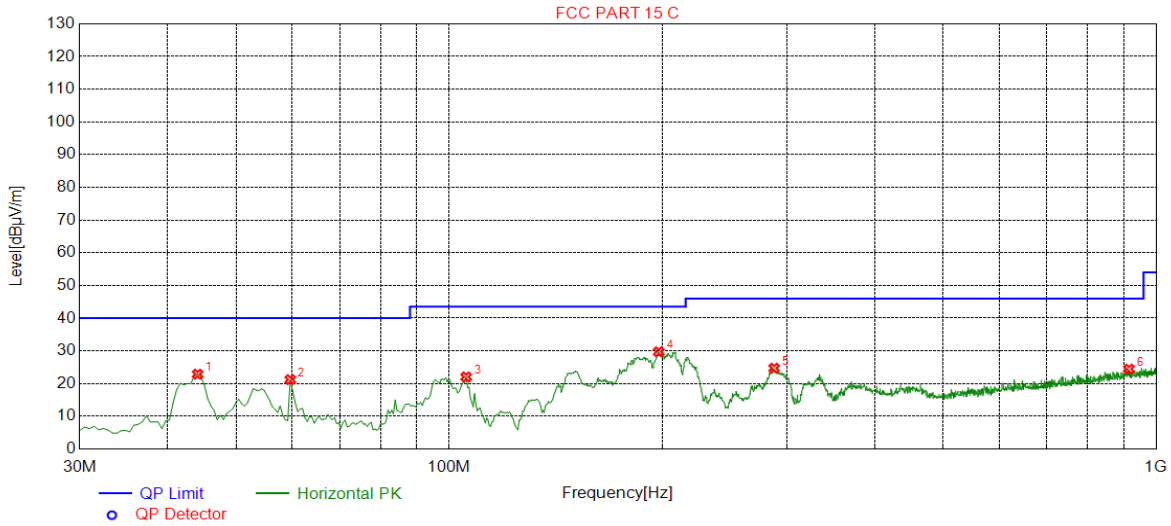
4.9.1 Radiated emission below 1GHz

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	44.0720	22.88	40.00	17.12	148	16	Horizontal
2	59.5998	21.22	40.00	18.78	164	274	Horizontal
3	105.6978	22.04	43.50	21.46	199	233	Horizontal
4	197.8939	29.72	43.50	13.78	179	334	Horizontal
5	288.1491	24.71	46.00	21.29	120	32	Horizontal
6	915.5678	24.45	46.00	21.55	193	340	Horizontal

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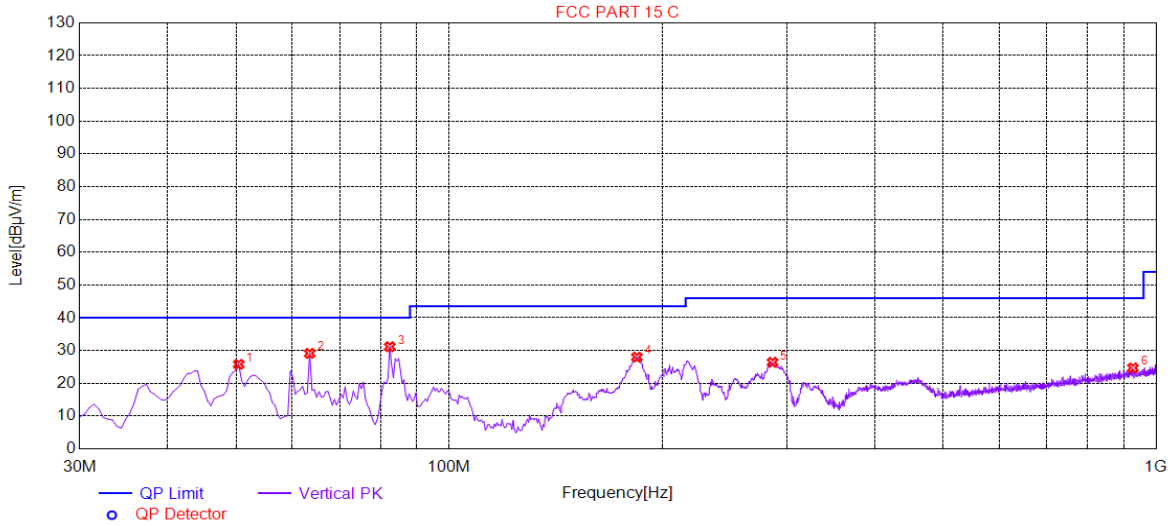
Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.3802	25.81	40.00	14.19	165	177	Vertical
2	63.4817	29.13	40.00	10.87	160	344	Vertical
3	82.4062	31.18	40.00	8.82	294	284	Vertical
4	184.3072	28.00	43.50	15.50	285	7	Vertical
5	286.6933	26.42	46.00	19.58	229	335	Vertical
6	927.2136	24.71	46.00	21.29	292	77	Vertical

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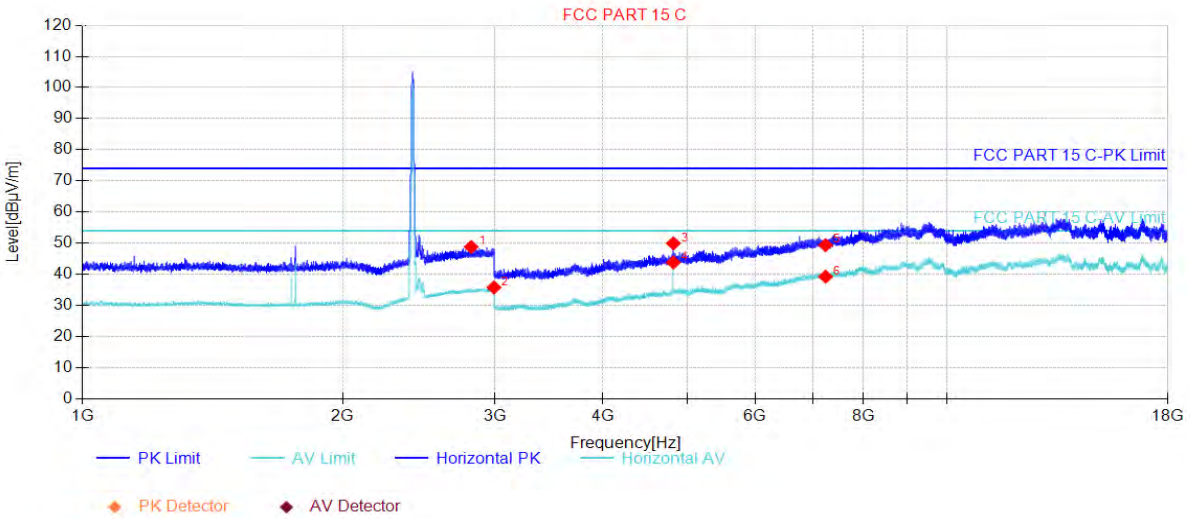
4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2815.781	48.76	6.76	74.00	25.24	185	Horizontal
2	2991.999	35.76	7.37	54.00	18.24	166	Horizontal
3	4824.000	49.92	-10.56	74.00	24.08	177	Horizontal
4	4824.000	43.77	-10.56	54.00	10.23	155	Horizontal
5	7236.000	49.35	-2.59	74.00	24.65	151	Horizontal
6	7236.000	39.23	-2.59	54.00	14.77	162	Horizontal

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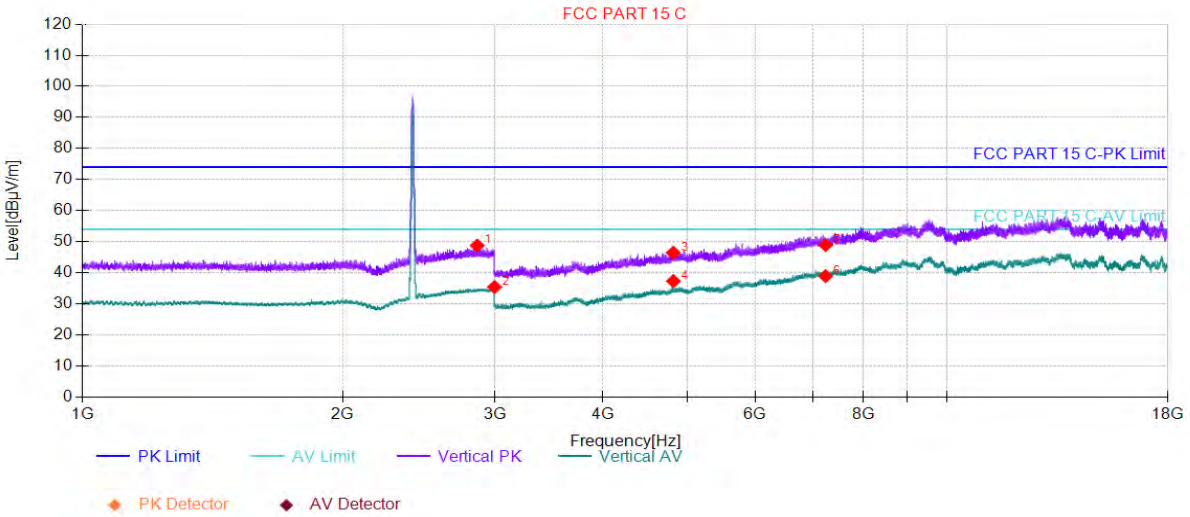
4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2860.786	48.74	6.86	74.00	25.26	238	Vertical
2	2996.799	35.38	7.40	54.00	18.62	291	Vertical
3	4824.000	46.42	-10.56	74.00	27.58	222	Vertical
4	4824.000	37.28	-10.56	54.00	16.72	264	Vertical
5	7236.000	48.92	-2.59	74.00	25.08	244	Vertical
6	7236.000	38.91	-2.59	54.00	15.09	209	Vertical

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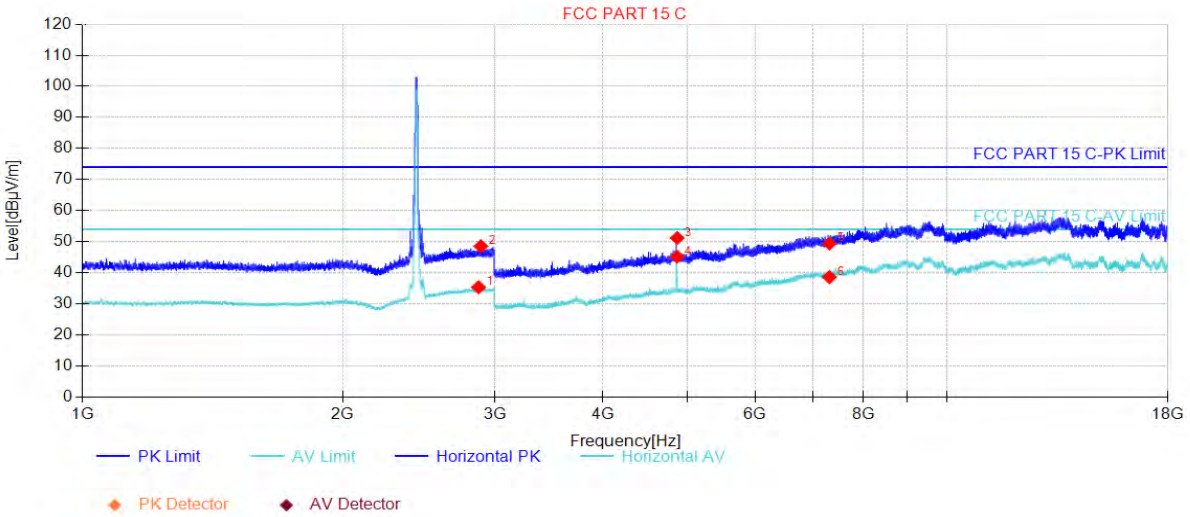
4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2872.187	35.31	6.89	54.00	18.69	255	Horizontal
2	2889.388	48.50	6.93	74.00	25.50	274	Horizontal
3	4874.000	51.17	-10.40	74.00	22.83	288	Horizontal
4	4874.000	45.15	-10.40	54.00	8.85	155	Horizontal
5	7311.000	49.37	-2.58	74.00	24.63	236	Horizontal
6	7311.000	38.57	-2.58	54.00	15.43	177	Horizontal

Final Data List

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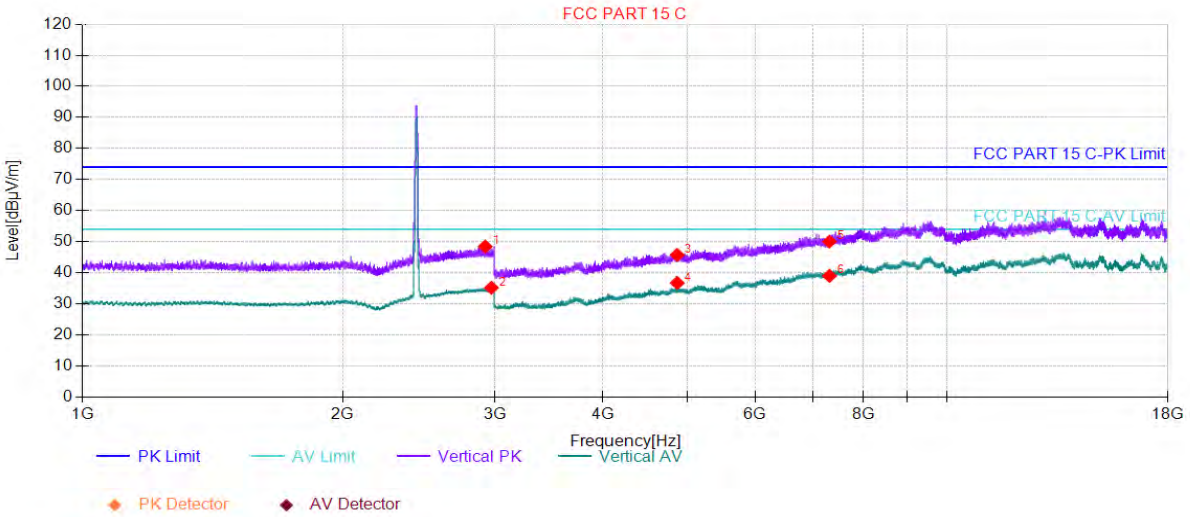
4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2922.992	48.39	7.06	74.00	25.61	291	Vertical
2	2972.197	35.14	7.28	54.00	18.86	192	Vertical
3	4874.000	45.71	-10.40	74.00	28.29	306	Vertical
4	4874.000	36.68	-10.40	54.00	17.32	204	Vertical
5	7311.000	50.04	-2.58	74.00	23.96	284	Vertical
6	7311.000	38.99	-2.58	54.00	15.01	244	Vertical

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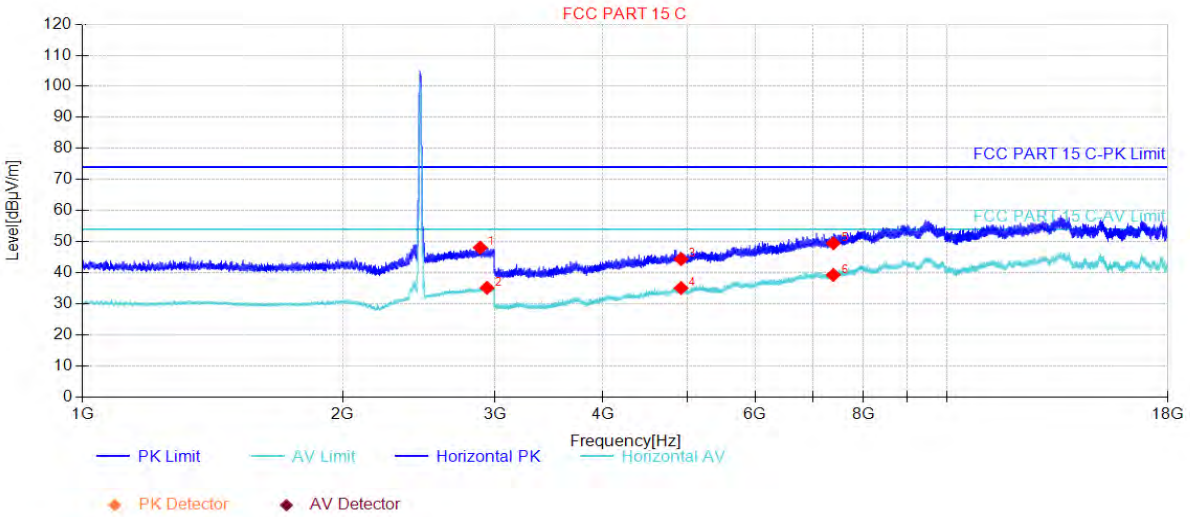
4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
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1	2883.988	48.07	6.91	74.00	25.93	197	Horizontal
2	2936.993	35.11	7.12	54.00	18.89	182	Horizontal
3	4924.000	44.36	-10.22	74.00	29.64	166	Horizontal
4	4924.000	35.06	-10.22	54.00	18.94	174	Horizontal
5	7386.000	49.46	-2.06	74.00	24.54	191	Horizontal
6	7386.000	39.26	-2.06	54.00	14.74	142	Horizontal

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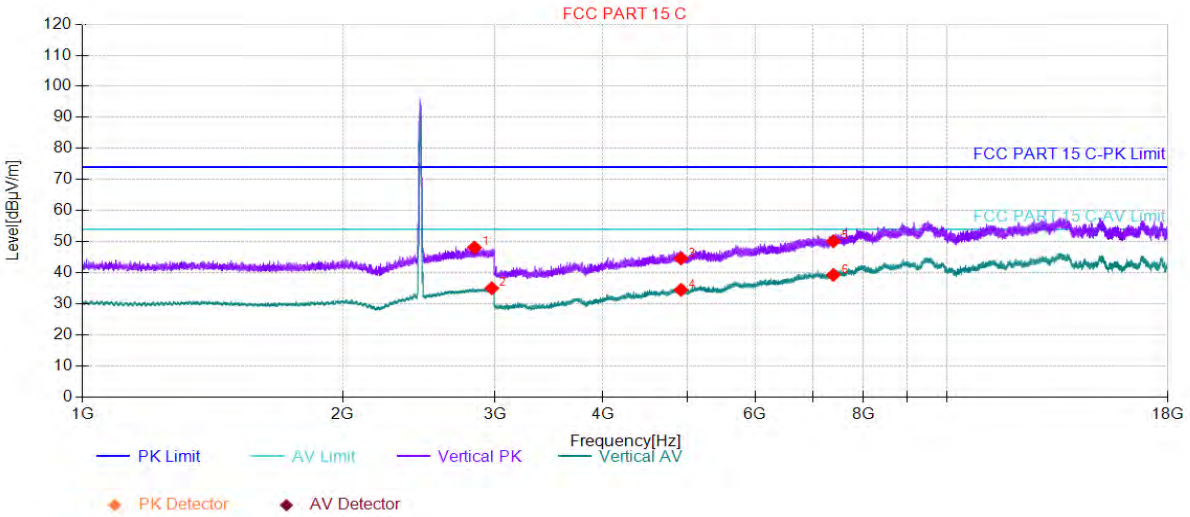
4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
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1	2840.584	48.09	6.82	74.00	25.91	385	Vertical
2	2974.397	34.98	7.29	54.00	19.02	219	Vertical
3	4924.000	44.59	-10.22	74.00	29.41	261	Vertical
4	4924.000	34.47	-10.22	54.00	19.53	318	Vertical
5	7386.000	50.10	-2.06	74.00	23.90	330	Vertical
6	7386.000	39.28	-2.06	54.00	14.72	211	Vertical

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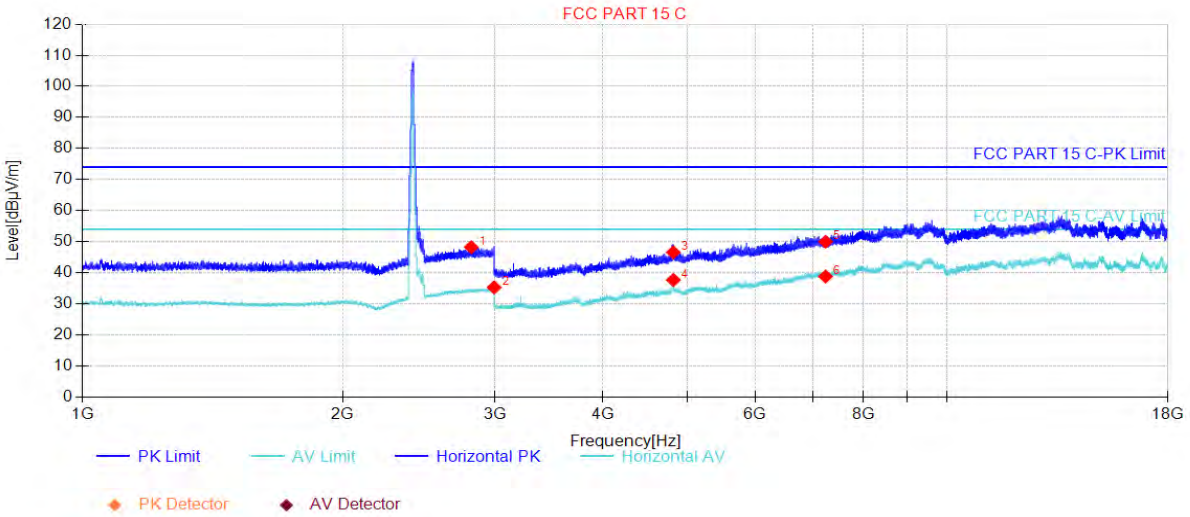
4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
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1	2816.381	48.21	6.77	74.00	25.79	172	Horizontal
2	2993.599	35.26	7.38	54.00	18.74	162	Horizontal
3	4824.000	46.54	-10.56	74.00	27.46	144	Horizontal
4	4824.000	37.64	-10.56	54.00	16.36	188	Horizontal
5	7236.000	49.97	-2.59	74.00	24.03	123	Horizontal
6	7236.000	38.78	-2.59	54.00	15.22	166	Horizontal

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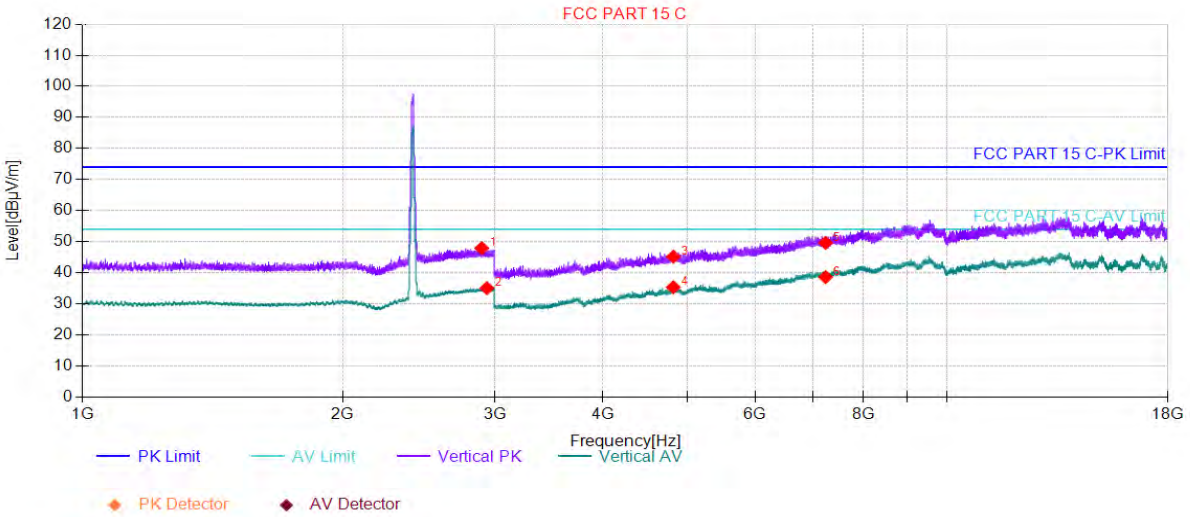
4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2895.589	47.89	6.94	74.00	26.11	381	Vertical
2	2936.393	35.01	7.12	54.00	18.99	252	Vertical
3	4824.000	45.14	-10.56	74.00	28.86	246	Vertical
4	4824.000	35.30	-10.56	54.00	18.70	218	Vertical
5	7236.000	49.62	-2.59	74.00	24.38	306	Vertical
6	7236.000	38.58	-2.59	54.00	15.42	275	Vertical

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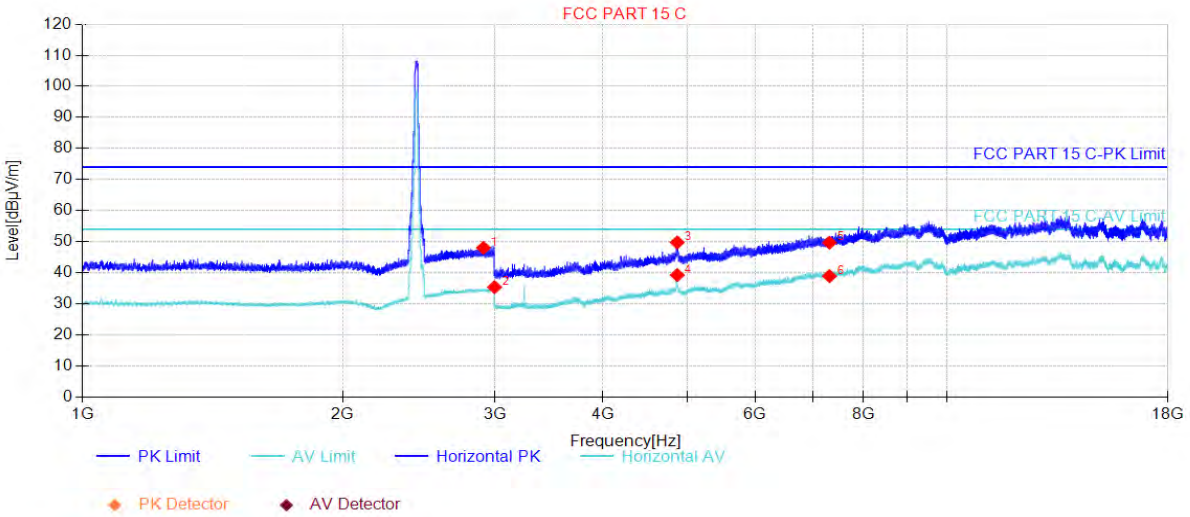
4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2908.990	48.00	6.99	74.00	26.00	174	Horizontal
2	2996.399	35.35	7.39	54.00	18.65	162	Horizontal
3	4874.000	49.76	-10.40	74.00	24.24	177	Horizontal
4	4874.000	39.21	-10.40	54.00	14.79	103	Horizontal
5	7311.000	49.66	-2.58	74.00	24.34	132	Horizontal
6	7311.000	38.89	-2.58	54.00	15.11	122	Horizontal

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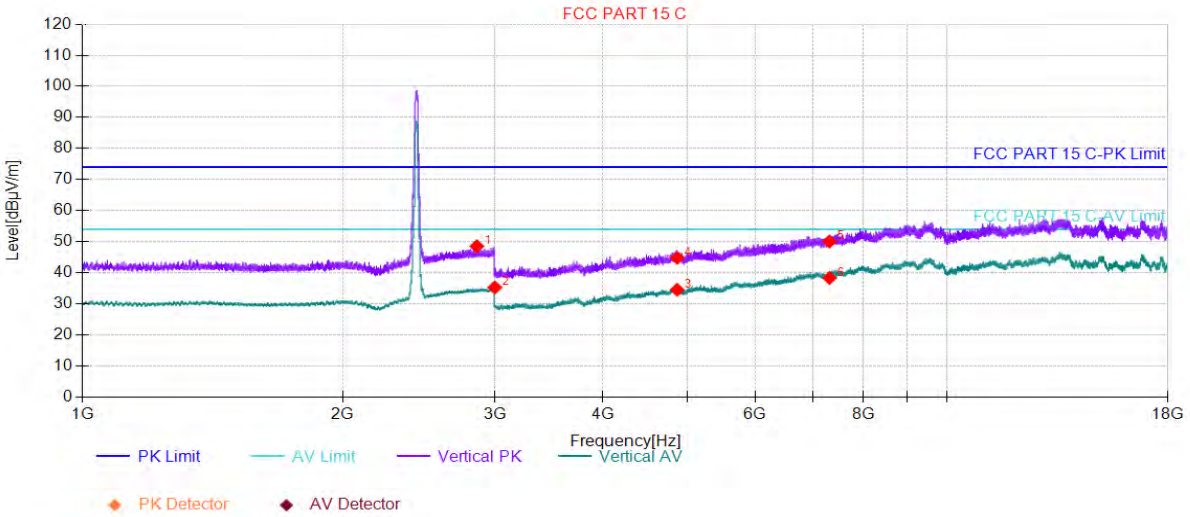
4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2858.985	48.51	6.86	74.00	25.49	115	Vertical
2	2998.399	35.25	7.40	54.00	18.75	165	Vertical
3	4874.000	34.49	-10.40	54.00	19.51	143	Vertical
4	4874.000	44.79	-10.40	74.00	29.21	175	Vertical
5	7311.000	50.05	-2.58	74.00	23.95	231	Vertical
6	7311.000	38.32	-2.58	54.00	15.68	266	Vertical

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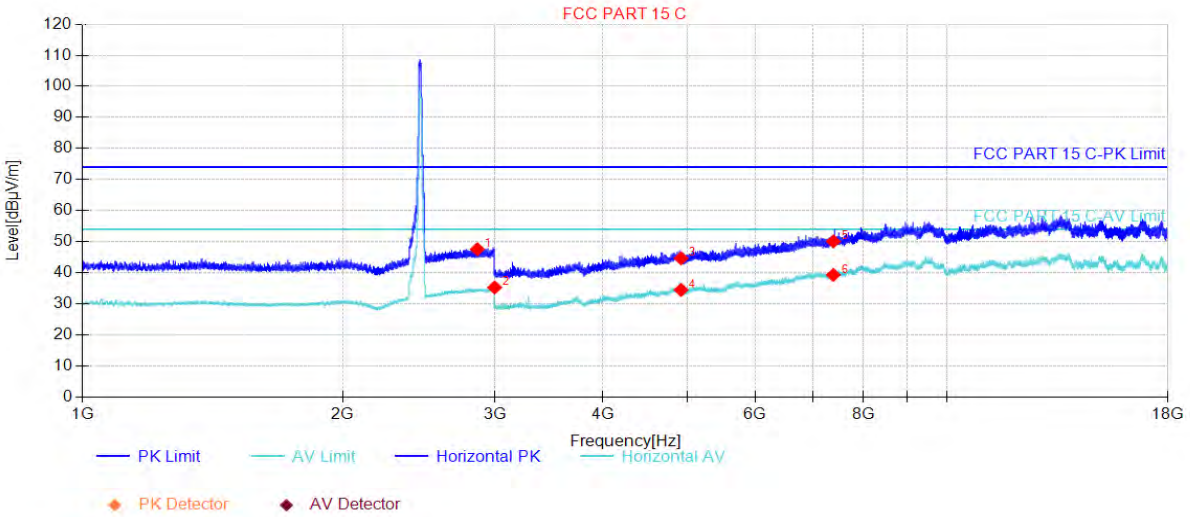
4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
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1	2861.986	47.55	6.87	74.00	26.45	162	Horizontal
2	2997.199	35.26	7.40	54.00	18.74	172	Horizontal
3	4924.000	44.64	-10.22	74.00	29.36	166	Horizontal
4	4924.000	34.46	-10.22	54.00	19.54	144	Horizontal
5	7386.000	50.07	-2.06	74.00	23.93	130	Horizontal
6	7386.000	39.28	-2.06	54.00	14.72	175	Horizontal

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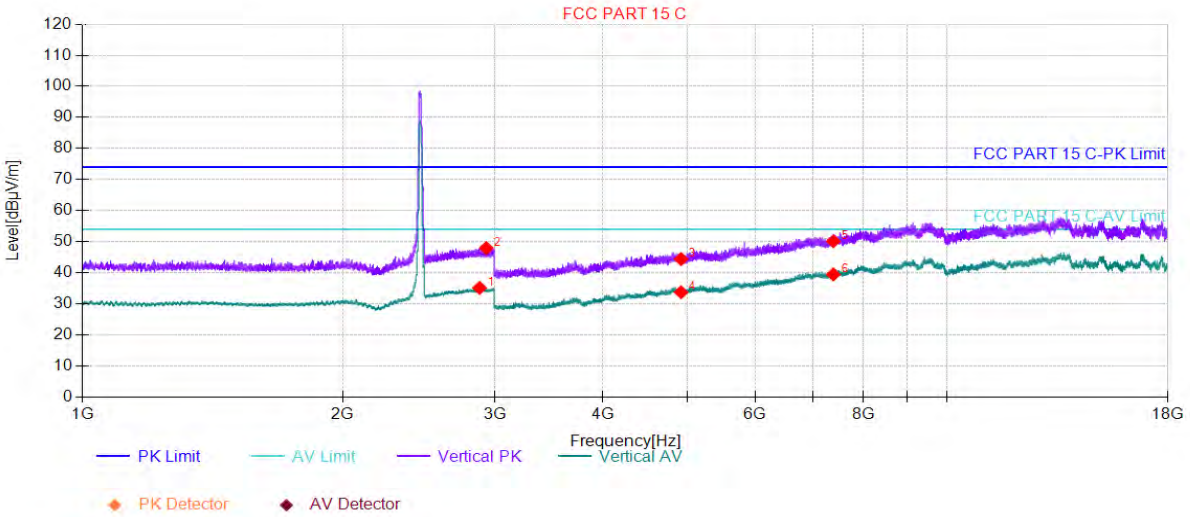
4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2879.387	35.09	6.90	54.00	18.91	352	Vertical
2	2931.193	47.90	7.09	74.00	26.10	324	Vertical
3	4924.000	44.37	-10.22	74.00	29.63	211	Vertical
4	4924.000	33.70	-10.22	54.00	20.30	206	Vertical
5	7386.000	50.13	-2.06	74.00	23.87	291	Vertical
6	7386.000	39.44	-2.06	54.00	14.56	213	Vertical

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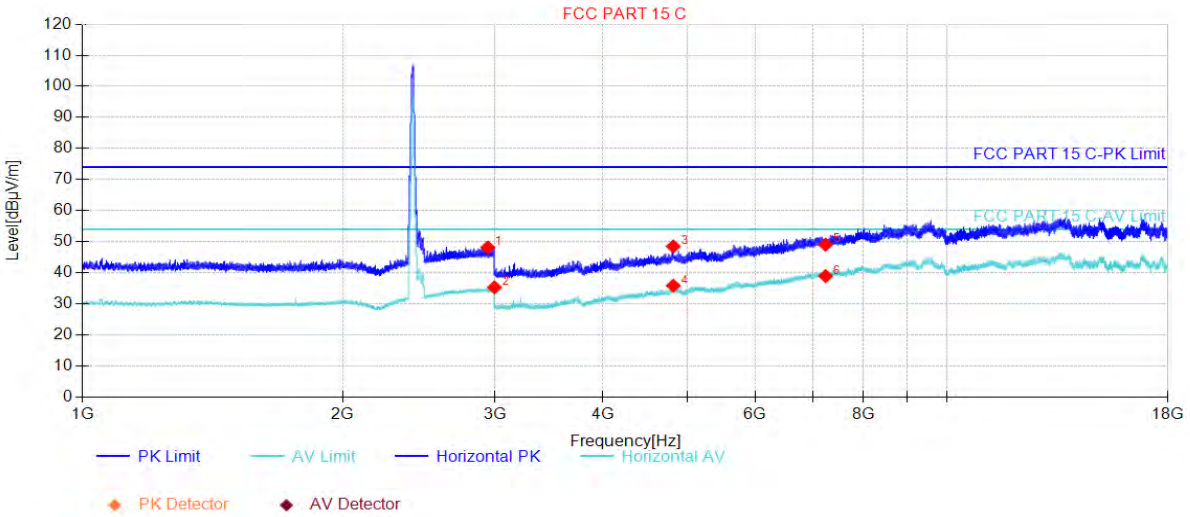
4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
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1	2943.594	48.12	7.15	74.00	25.88	177	Horizontal
2	2996.199	35.27	7.39	54.00	18.73	182	Horizontal
3	4824.000	48.46	-10.56	74.00	25.54	195	Horizontal
4	4824.000	35.78	-10.56	54.00	18.22	135	Horizontal
5	7236.000	49.04	-2.59	74.00	24.96	162	Horizontal
6	7236.000	38.91	-2.59	54.00	15.09	144	Horizontal

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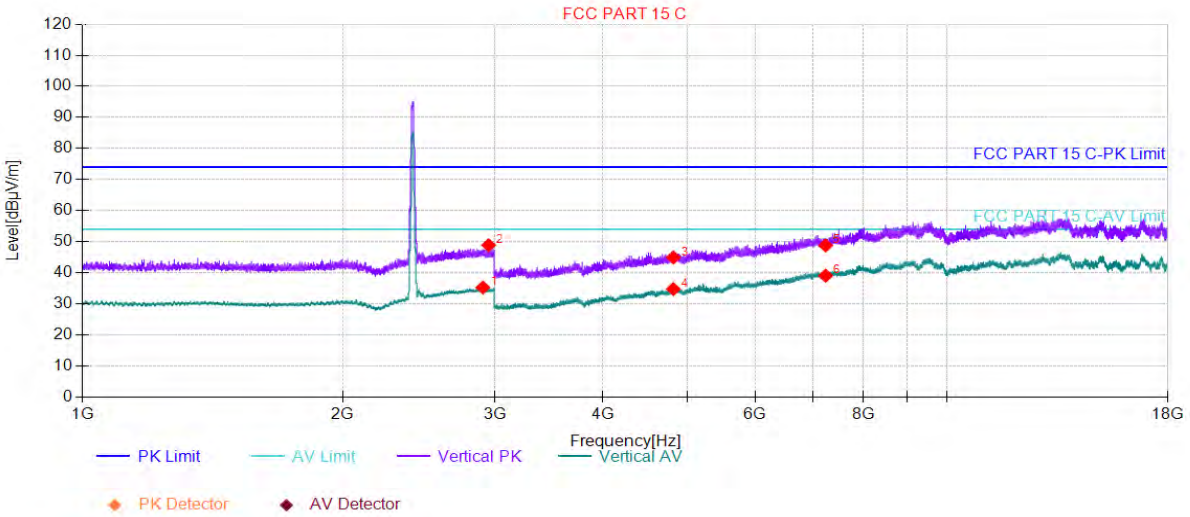
4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
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1	2905.390	35.23	6.97	54.00	18.77	236	Vertical
2	2949.595	48.86	7.18	74.00	25.14	285	Vertical
3	4824.000	44.92	-10.56	74.00	29.08	292	Vertical
4	4824.000	34.72	-10.56	54.00	19.28	307	Vertical
5	7236.000	48.75	-2.59	74.00	25.25	255	Vertical
6	7236.000	39.04	-2.59	54.00	14.96	232	Vertical

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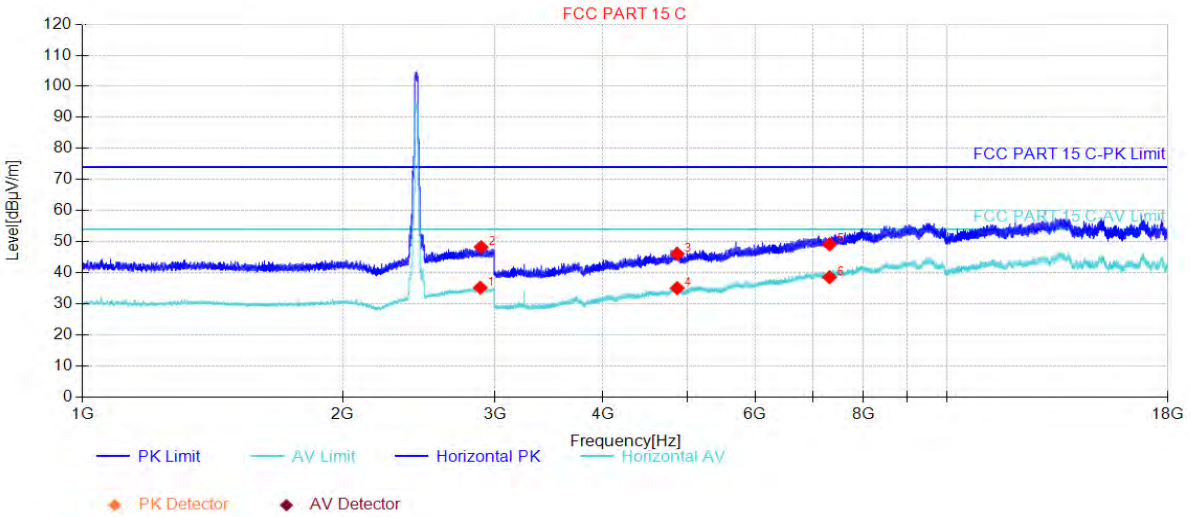
4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2884.988	35.17	6.92	54.00	18.83	152	Horizontal
2	2891.389	48.23	6.93	74.00	25.77	155	Horizontal
3	4874.000	46.07	-10.40	74.00	27.93	162	Horizontal
4	4874.000	35.02	-10.40	54.00	18.98	136	Horizontal
5	7311.000	49.13	-2.58	74.00	24.87	172	Horizontal
6	7311.000	38.55	-2.58	54.00	15.45	166	Horizontal

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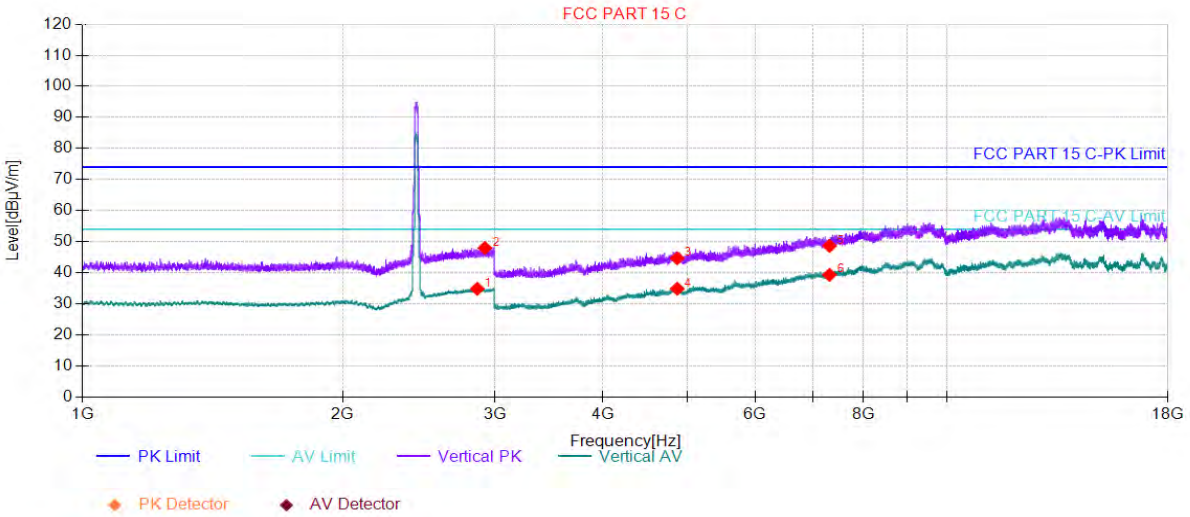
4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2862.186	34.81	6.87	54.00	19.19	328	Vertical
2	2920.592	47.92	7.04	74.00	26.08	355	Vertical
3	4874.000	44.66	-10.40	74.00	29.34	262	Vertical
4	4874.000	34.84	-10.40	54.00	19.16	234	Vertical
5	7311.000	48.63	-2.58	74.00	25.37	284	Vertical
6	7311.000	39.30	-2.58	54.00	14.70	214	Vertical

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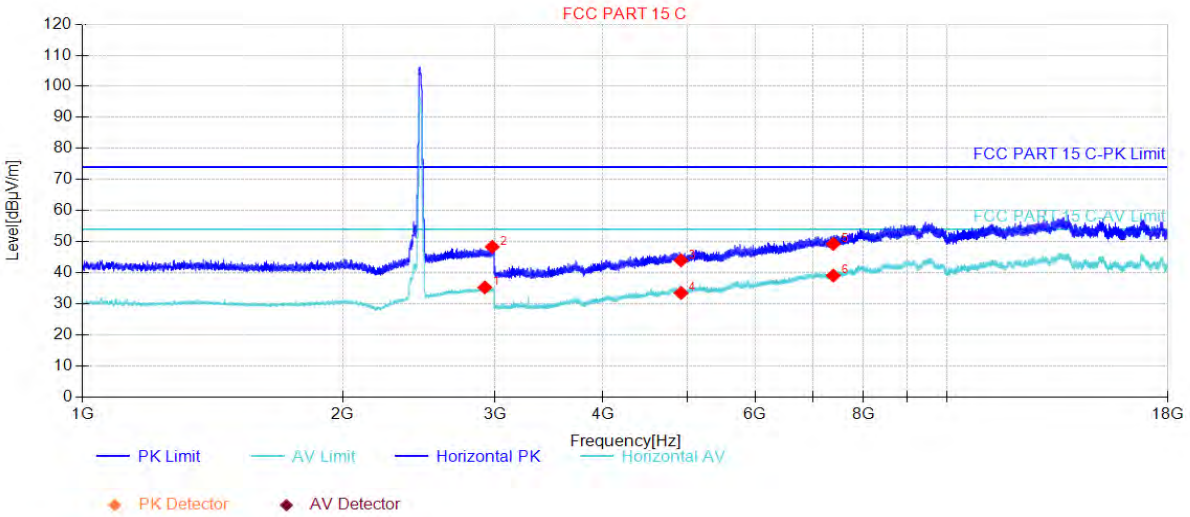
4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2919.792	35.26	7.04	54.00	18.74	185	Horizontal
2	2978.197	48.33	7.31	74.00	25.67	144	Horizontal
3	4924.000	43.95	-10.22	74.00	30.05	162	Horizontal
4	4924.000	33.47	-10.22	54.00	20.53	193	Horizontal
5	7386.000	49.25	-2.06	74.00	24.75	176	Horizontal
6	7386.000	39.09	-2.06	54.00	14.91	122	Horizontal

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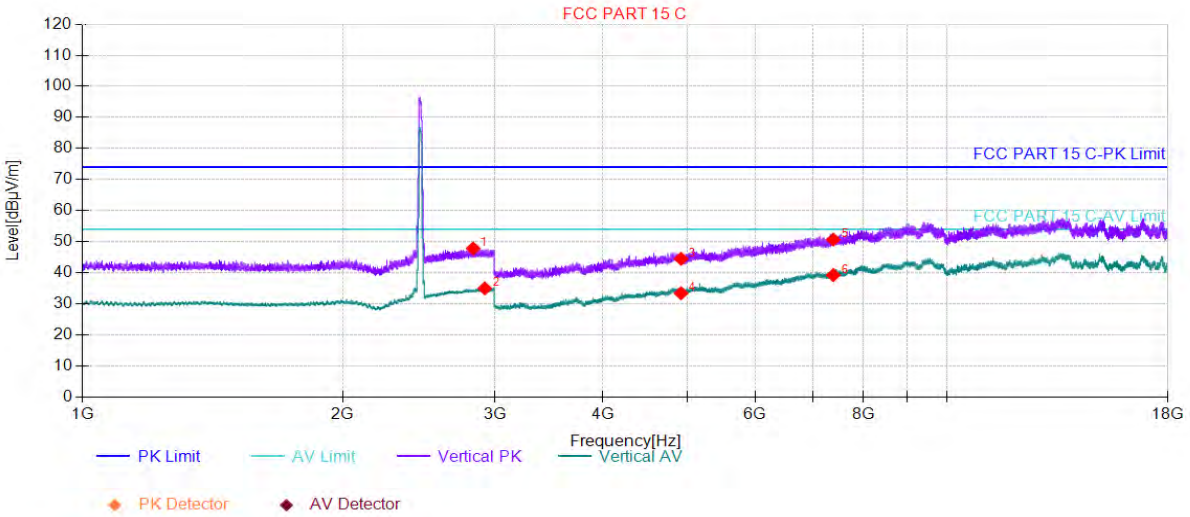
4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
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1	2830.983	47.80	6.80	74.00	26.20	385	Vertical
2	2919.592	34.93	7.04	54.00	19.07	377	Vertical
3	4924.000	44.49	-10.22	74.00	29.51	391	Vertical
4	4924.000	33.40	-10.22	54.00	20.60	255	Vertical
5	7386.000	50.67	-2.06	74.00	23.33	264	Vertical
6	7386.000	39.21	-2.06	54.00	14.79	209	Vertical

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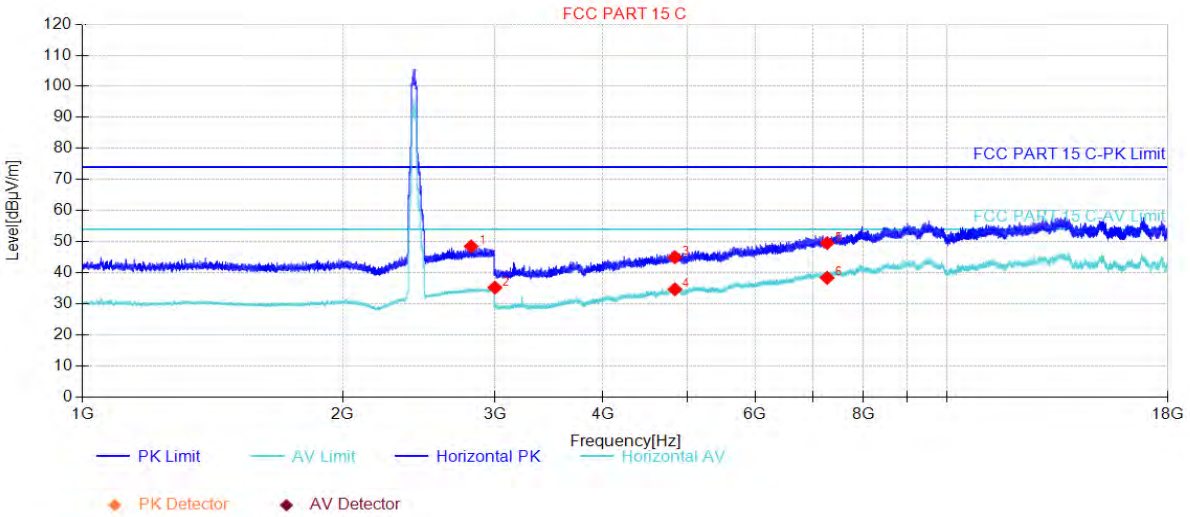
4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
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1	2815.581	48.47	6.76	74.00	25.53	192	Horizontal
2	2999.800	35.21	7.41	54.00	18.79	173	Horizontal
3	4844.000	44.96	-10.50	74.00	29.04	199	Horizontal
4	4844.000	34.64	-10.50	54.00	19.36	145	Horizontal
5	7266.000	49.55	-2.62	74.00	24.45	168	Horizontal
6	7266.000	38.36	-2.62	54.00	15.64	133	Horizontal

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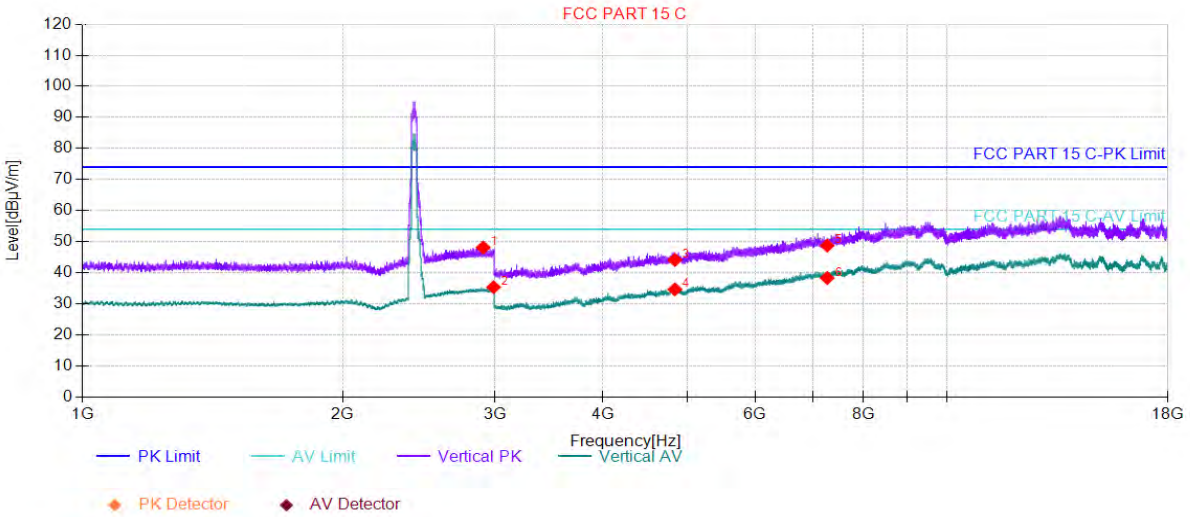
4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
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1	2907.190	48.12	6.98	74.00	25.88	238	Vertical
2	2988.398	35.32	7.36	54.00	18.68	256	Vertical
3	4844.000	44.10	-10.50	74.00	29.90	294	Vertical
4	4844.000	34.62	-10.50	54.00	19.38	385	Vertical
5	7266.000	48.72	-2.62	74.00	25.28	266	Vertical
6	7266.000	38.30	-2.62	54.00	15.70	216	Vertical

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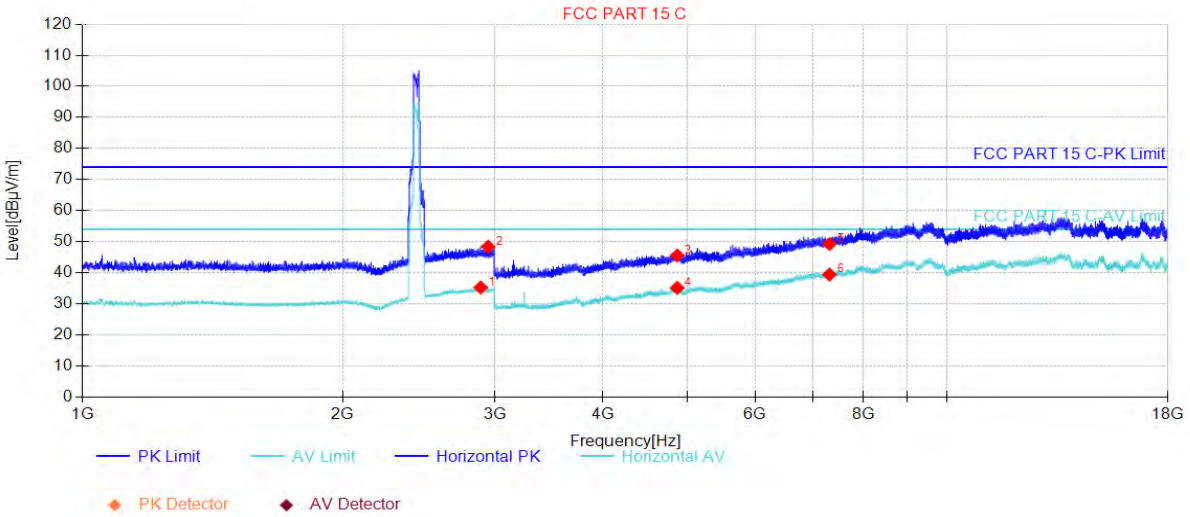
4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
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1	2887.788	35.21	6.92	54.00	18.79	162	Horizontal
2	2945.994	48.37	7.16	74.00	25.63	177	Horizontal
3	4874.000	45.52	-10.40	74.00	28.48	185	Horizontal
4	4874.000	35.10	-10.40	54.00	18.90	166	Horizontal
5	7311.000	49.25	-2.58	74.00	24.75	192	Horizontal
6	7311.000	39.39	-2.58	54.00	14.61	156	Horizontal

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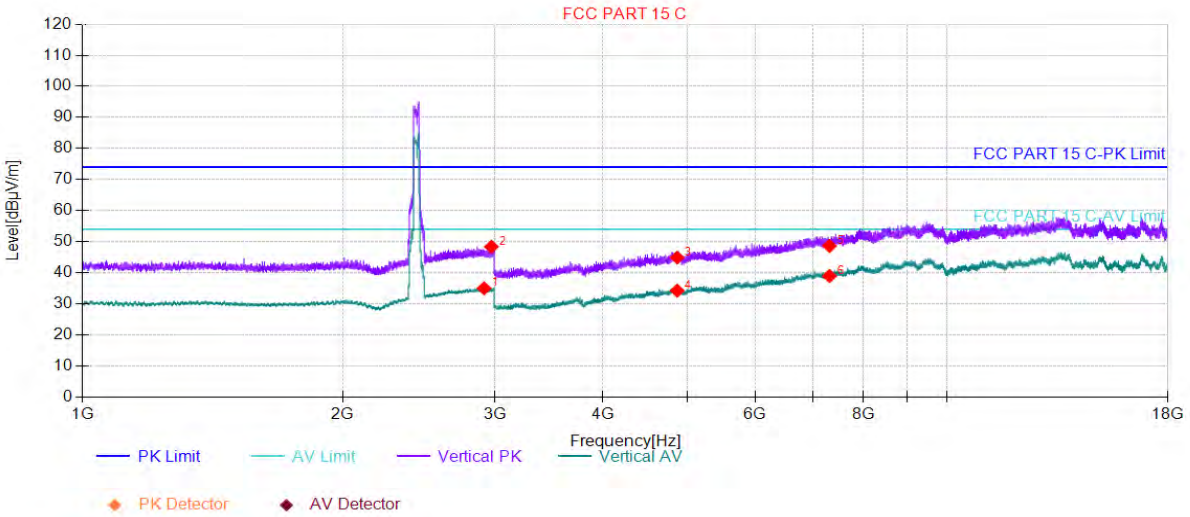
4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2913.791	34.96	7.01	54.00	19.04	251	Vertical
2	2971.597	48.35	7.28	74.00	25.65	266	Vertical
3	4874.000	44.87	-10.40	74.00	29.13	306	Vertical
4	4874.000	34.20	-10.40	54.00	19.80	217	Vertical
5	7311.000	48.62	-2.58	74.00	25.38	222	Vertical
6	7311.000	38.94	-2.58	54.00	15.06	199	Vertical

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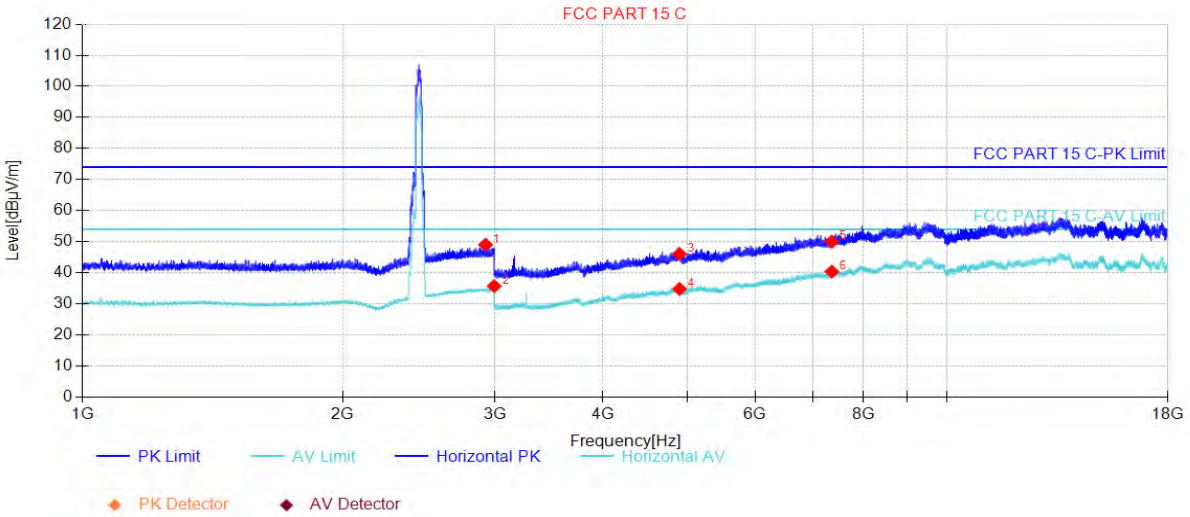
4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2926.192	49.00	7.07	74.00	25.00	174	Horizontal
2	2993.999	35.66	7.38	54.00	18.34	162	Horizontal
3	4904.000	46.01	-10.30	74.00	27.99	192	Horizontal
4	4904.000	34.74	-10.30	54.00	19.26	188	Horizontal
5	7356.000	49.99	-2.27	74.00	24.01	201	Horizontal
6	7356.000	40.32	-2.27	54.00	13.68	144	Horizontal

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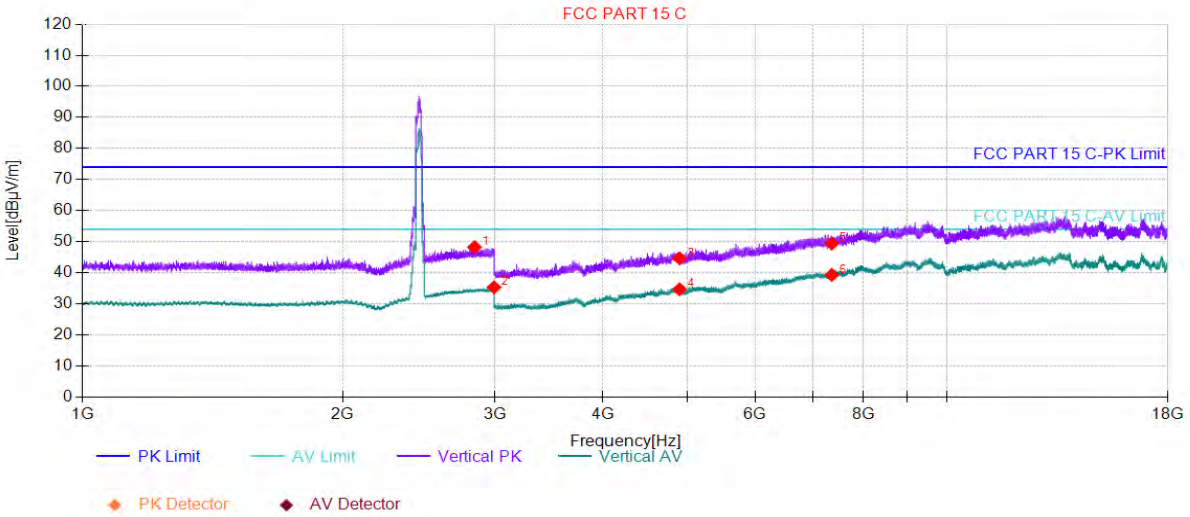
4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2841.184	48.19	6.82	74.00	25.81	333	Vertical
2	2992.599	35.28	7.38	54.00	18.72	285	Vertical
3	4904.000	44.62	-10.30	74.00	29.38	255	Vertical
4	4904.000	34.64	-10.30	54.00	19.36	261	Vertical
5	7356.000	49.40	-2.27	74.00	24.60	284	Vertical
6	7356.000	39.27	-2.27	54.00	14.73	277	Vertical

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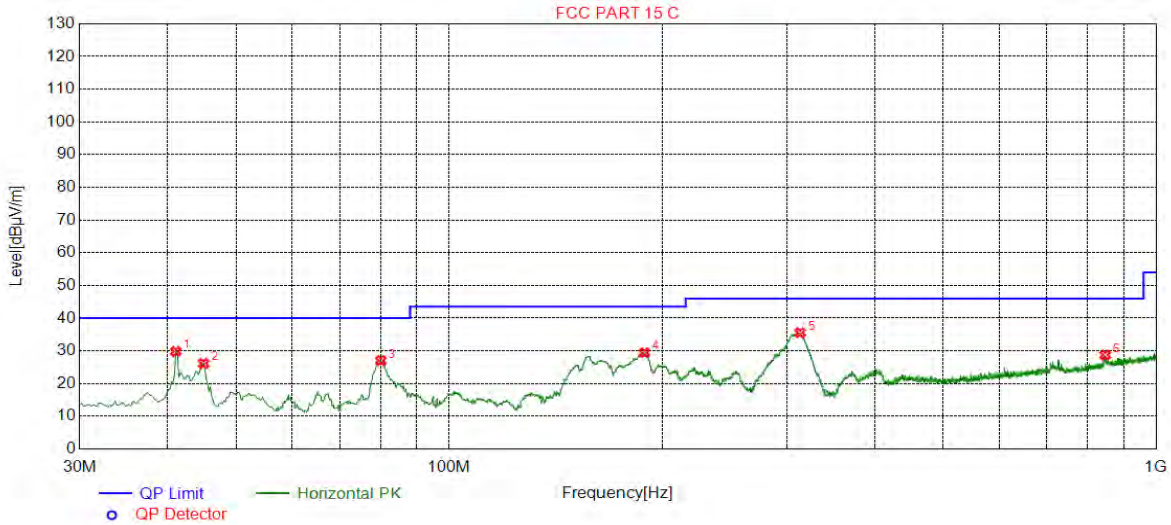
Test on the worst case:

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	41.0602	29.83	40.00	10.17	126	72	Horizontal
2	44.9410	26.15	40.00	13.85	210	188	Horizontal
3	80.0620	27.02	40.00	12.98	121	305	Horizontal
4	188.9178	29.43	43.50	14.07	173	218	Horizontal
5	313.6847	35.55	46.00	10.45	217	70	Horizontal
6	847.4855	28.75	46.00	17.25	205	305	Horizontal

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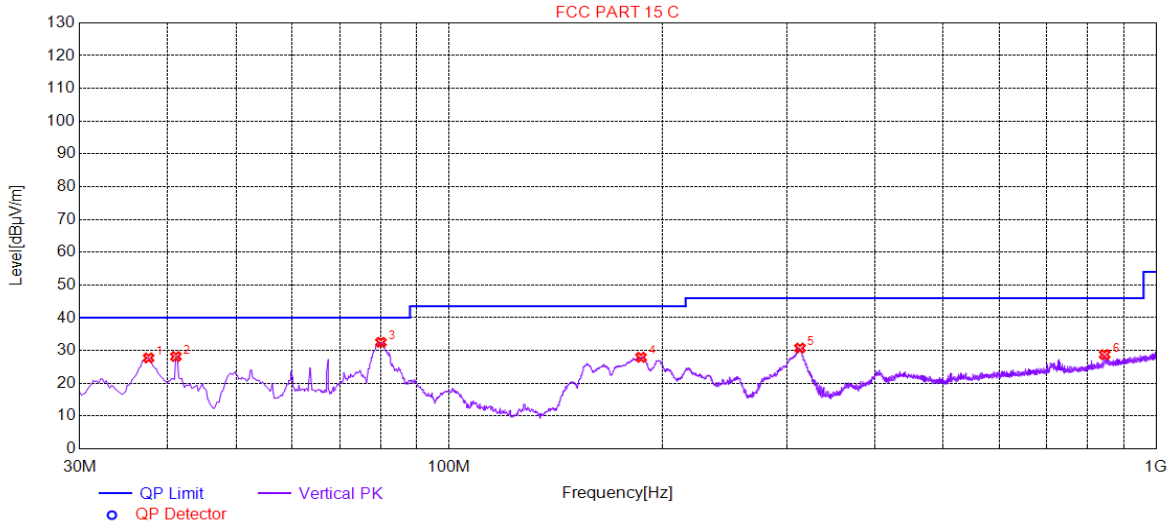
Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.5675	27.77	40.00	12.23	200	326	Vertical
2	41.0602	28.18	40.00	11.82	258	12	Vertical
3	80.0620	32.52	40.00	7.48	266	250	Vertical
4	186.7834	27.95	43.50	15.55	250	221	Vertical
5	313.4907	30.74	46.00	15.26	211	346	Vertical
6	845.7391	28.78	46.00	17.22	244	172	Vertical

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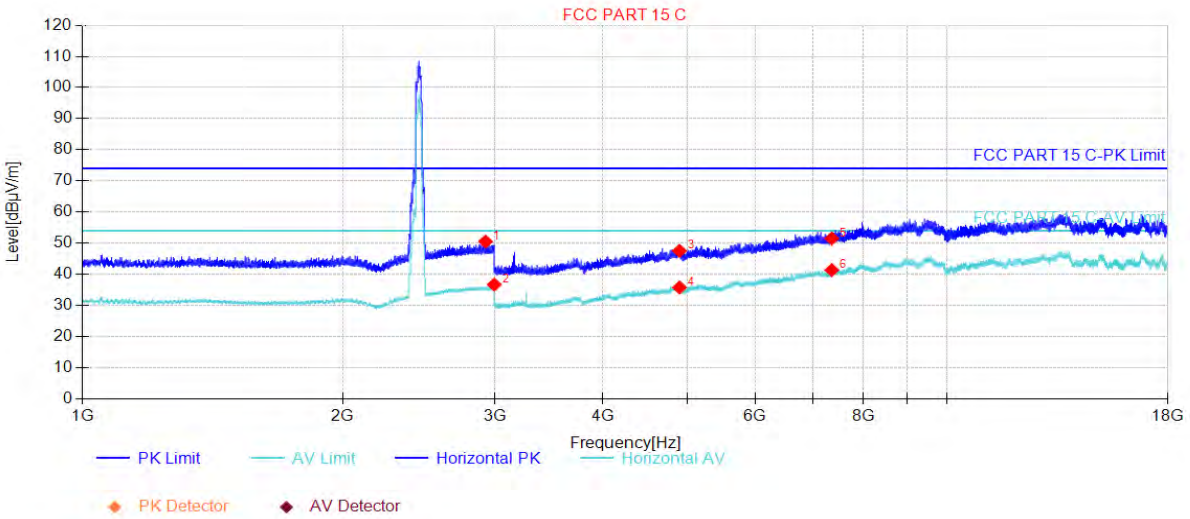
4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2926.192	50.50	7.07	74.00	23.50	136	Horizontal
2	2993.999	36.66	7.38	54.00	17.34	172	Horizontal
3	4904.000	47.51	-10.30	74.00	26.49	182	Horizontal
4	4904.000	35.74	-10.30	54.00	18.26	155	Horizontal
5	7356.000	51.49	-2.27	74.00	22.51	167	Horizontal
6	7356.000	41.32	-2.27	54.00	12.68	177	Horizontal

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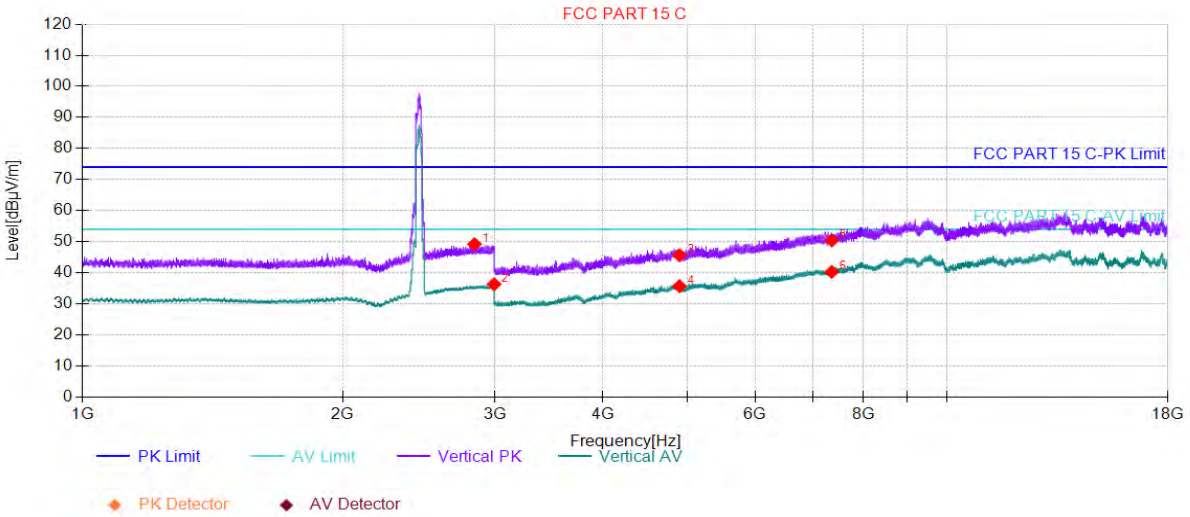
4.9.2.2 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2841.184	49.19	6.82	74.00	24.81	238	Vertical
2	2992.599	36.28	7.38	54.00	17.72	222	Vertical
3	4904.000	45.62	-10.30	74.00	28.38	268	Vertical
4	4904.000	35.64	-10.30	54.00	18.36	308	Vertical
5	7356.000	50.40	-2.27	74.00	23.60	255	Vertical
6	7356.000	40.27	-2.27	54.00	13.73	206	Vertical

Final Data List

Remark:

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

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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)	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:			

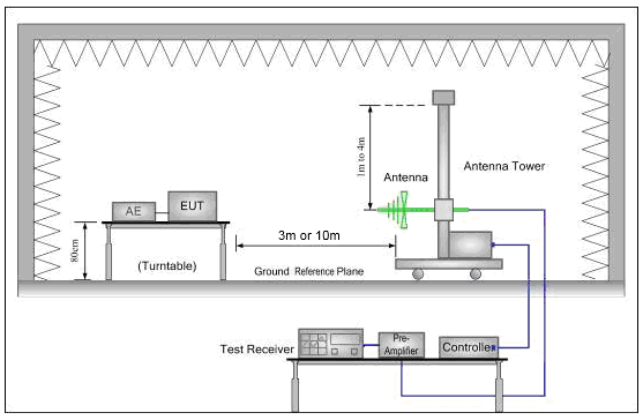

Figure 1. 30MHz to 1GHz

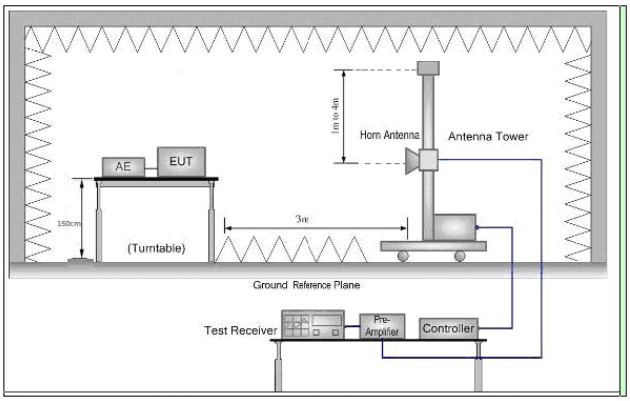

Figure 2. Above 1 GHz

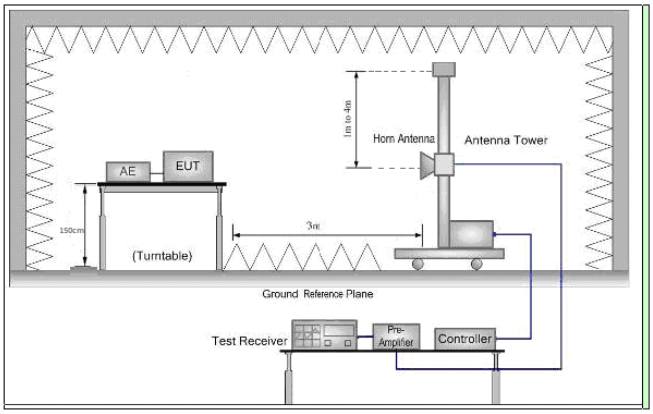

Figure 3. Above 1 GHz

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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 camber. 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 camber. 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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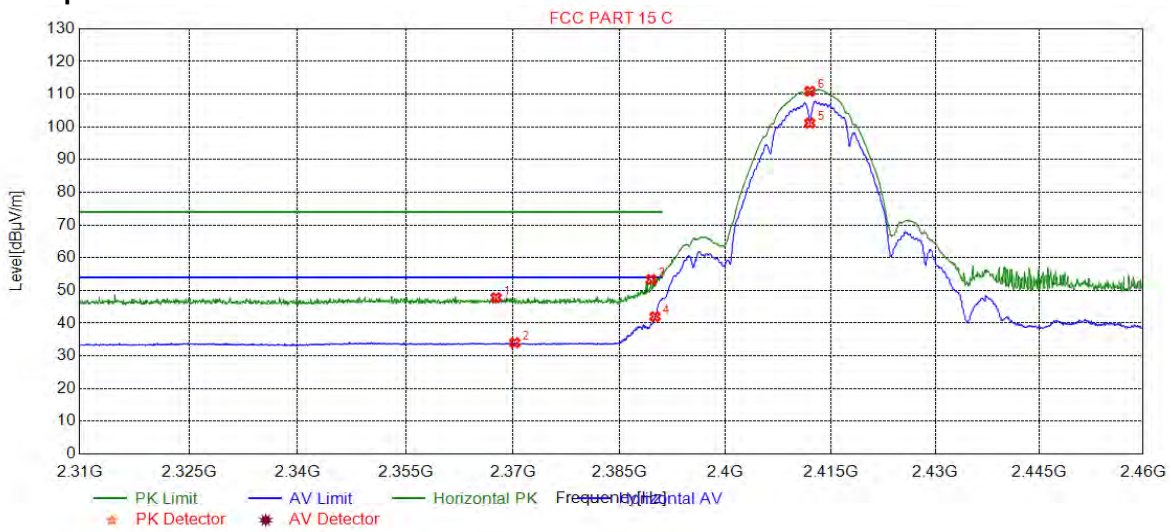
4.10.1 Test Plots

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	2367.628	47.81	74.00	26.19	113	104	Horizontal
2	2370.255	33.98	54.00	20.02	196	223	Horizontal
3	2389.464	53.36	74.00	20.64	154	208	Horizontal
4	2390.000	42.01	54.00	11.99	232	212	Horizontal
5	2412.000	101.17	0.00	-101.17	214	212	Horizontal
6	2412.000	110.91	0.00	-110.91	208	212	Horizontal

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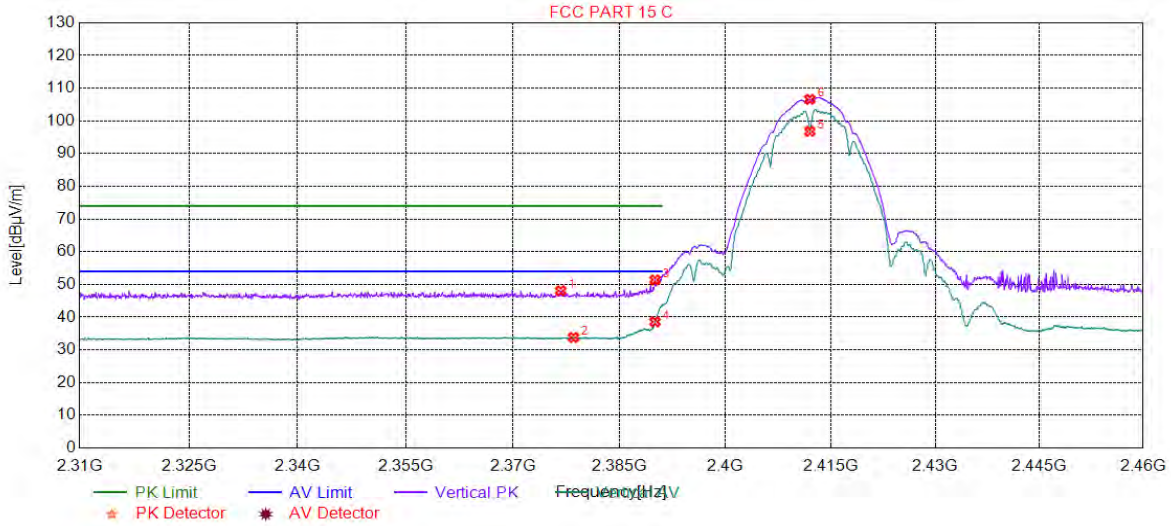
4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.708	48.10	74.00	25.90	210	75	Vertical
2	2378.509	33.82	54.00	20.18	180	199	Vertical
3	2390.000	51.38	74.00	22.62	274	179	Vertical
4	2390.000	38.59	54.00	15.41	180	194	Vertical
5	2412.000	96.83	0.00	-96.83	207	194	Vertical
6	2412.000	106.60	0.00	-106.60	207	194	Vertical

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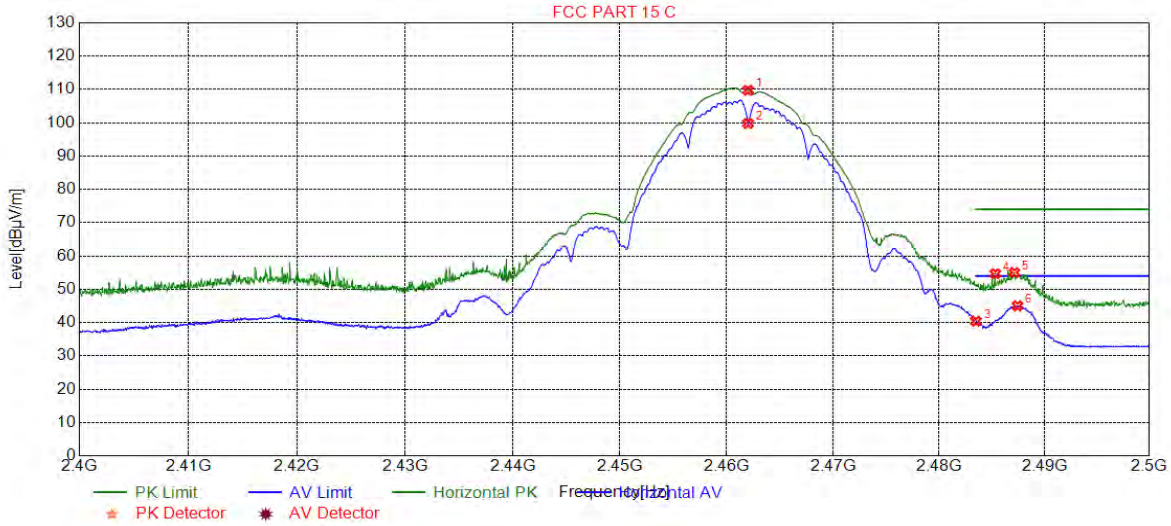
4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.75	0.00	-109.75	133	211	Horizontal
2	2462.000	99.82	0.00	-99.82	159	215	Horizontal
3	2483.500	40.46	54.00	13.54	126	215	Horizontal
4	2485.342	54.72	74.00	19.28	156	215	Horizontal
5	2487.143	55.04	74.00	18.96	151	211	Horizontal
6	2487.443	45.05	54.00	8.95	136	215	Horizontal

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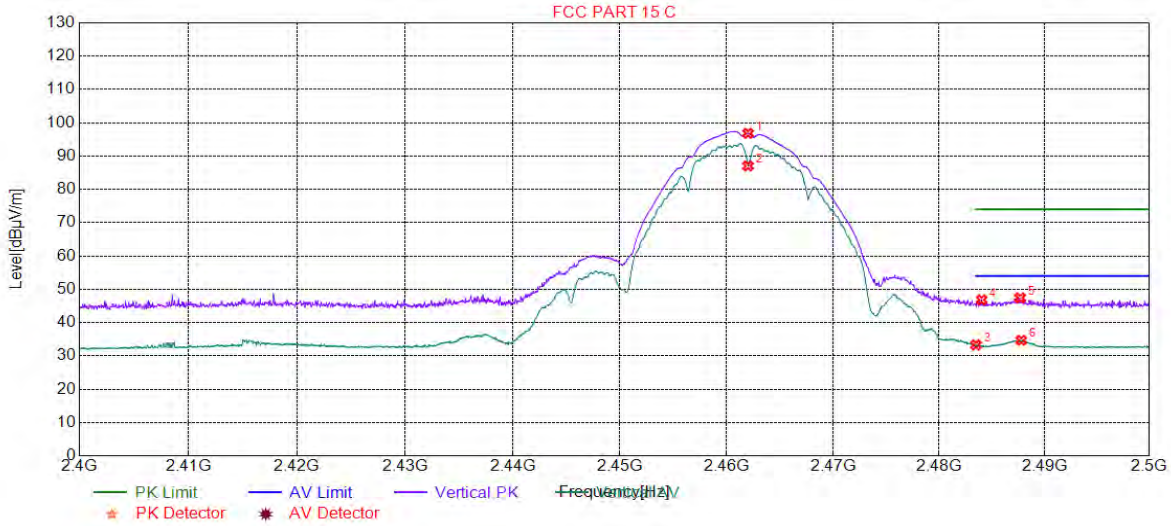
4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	96.84	0.00	-96.84	232	222	Vertical
2	2462.000	87.05	0.00	-87.05	185	218	Vertical
3	2483.500	33.31	54.00	20.69	160	292	Vertical
4	2484.042	46.85	74.00	27.15	226	292	Vertical
5	2487.693	47.45	74.00	26.55	205	292	Vertical
6	2487.793	34.72	54.00	19.28	229	222	Vertical

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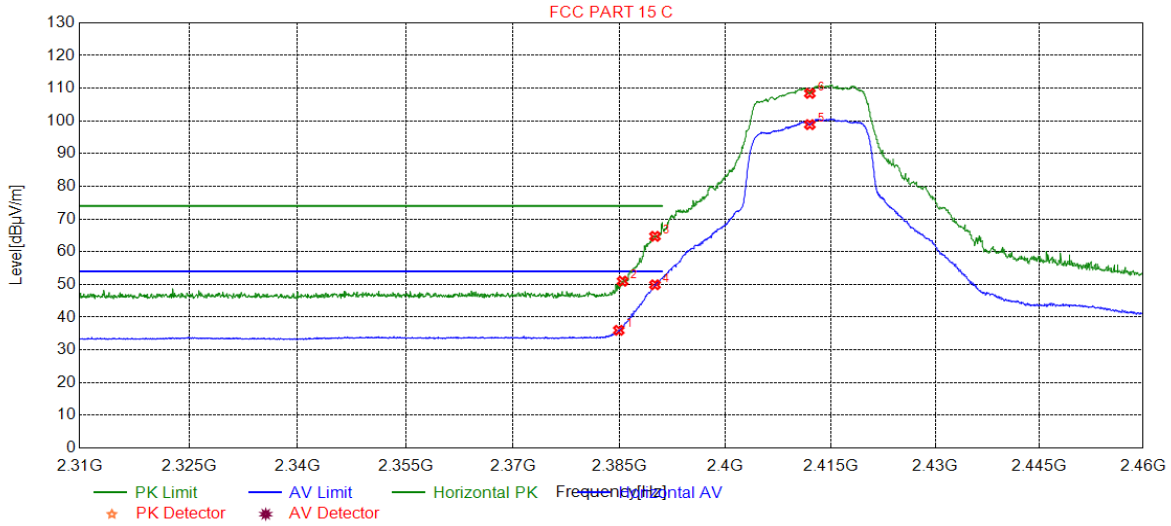
4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.887	35.99	54.00	18.01	176	216	Horizontal
2	2385.412	51.01	74.00	22.99	179	225	Horizontal
3	2390.000	64.72	74.00	9.28	219	216	Horizontal
4	2390.000	49.91	54.00	4.09	124	220	Horizontal
5	2412.000	98.88	0.00	-98.88	219	220	Horizontal
6	2412.000	108.43	0.00	-108.43	124	220	Horizontal

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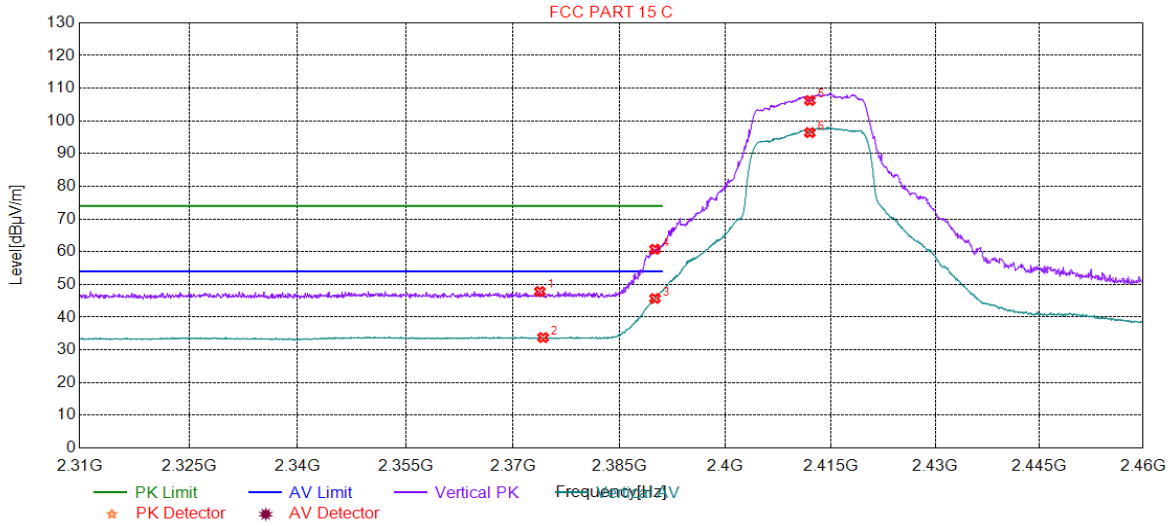
4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.781	47.86	74.00	26.14	157	212	Vertical
2	2374.232	33.77	54.00	20.23	285	186	Vertical
3	2390.000	45.74	54.00	8.26	169	188	Vertical
4	2390.000	60.79	74.00	13.21	227	182	Vertical
5	2412.000	106.25	0.00	-106.25	289	188	Vertical
6	2412.000	96.43	0.00	-96.43	292	188	Vertical

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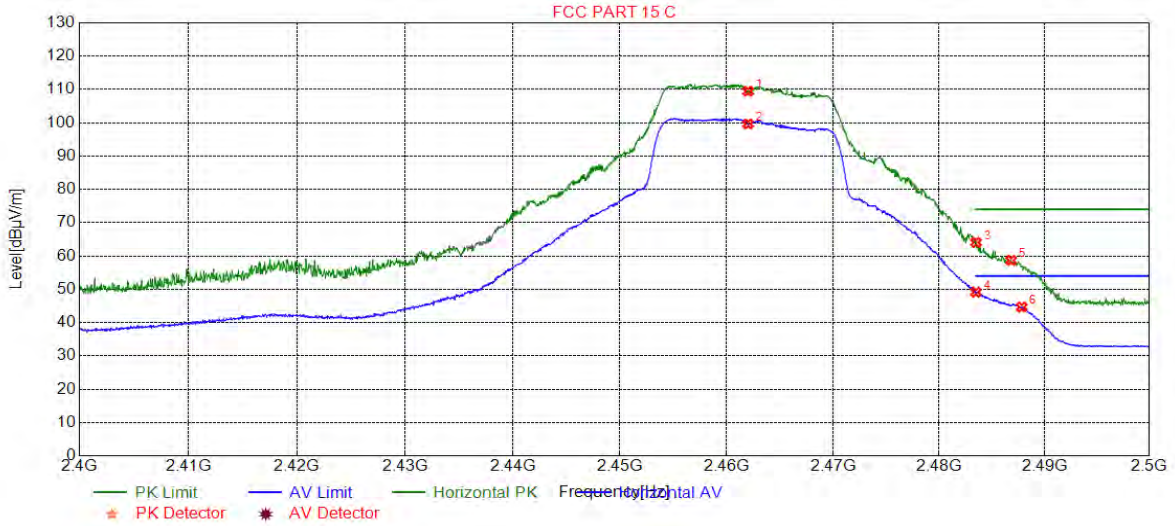
4.10.1.7 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	109.46	0.00	-109.46	237	213	Horizontal
2	2462.000	99.66	0.00	-99.66	204	213	Horizontal
3	2483.500	64.09	74.00	9.91	114	213	Horizontal
4	2483.500	49.16	54.00	4.84	233	209	Horizontal
5	2486.843	58.69	74.00	15.31	145	213	Horizontal
6	2487.843	44.69	54.00	9.31	102	217	Horizontal

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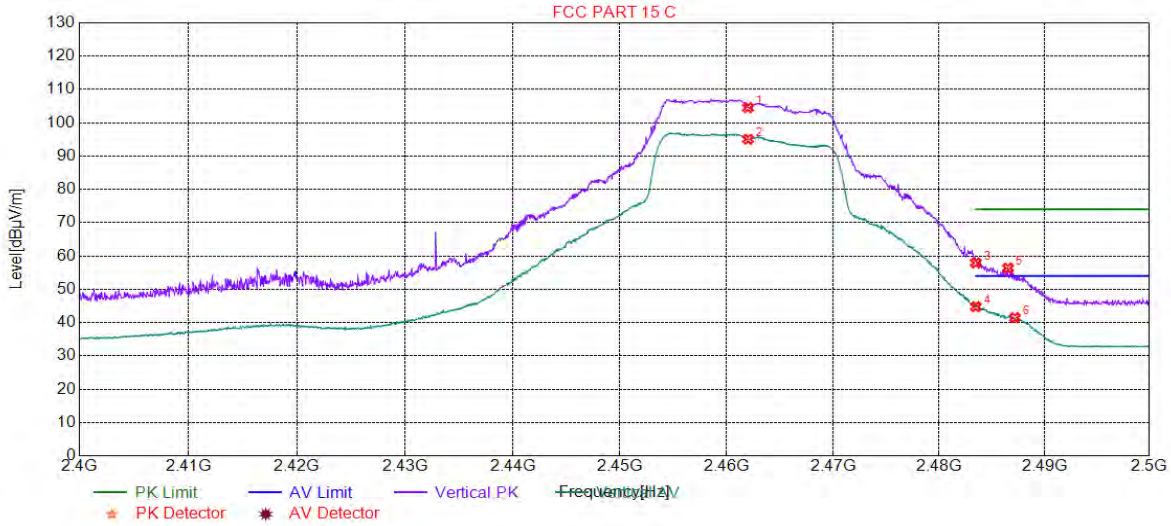
4.10.1.8 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	104.56	0.00	-104.56	210	173	Vertical
2	2462.000	95.07	0.00	-95.07	241	173	Vertical
3	2483.500	57.96	74.00	16.04	296	180	Vertical
4	2483.500	44.81	54.00	9.19	272	173	Vertical
5	2486.543	56.40	74.00	17.60	156	176	Vertical
6	2487.193	41.51	54.00	12.49	256	176	Vertical

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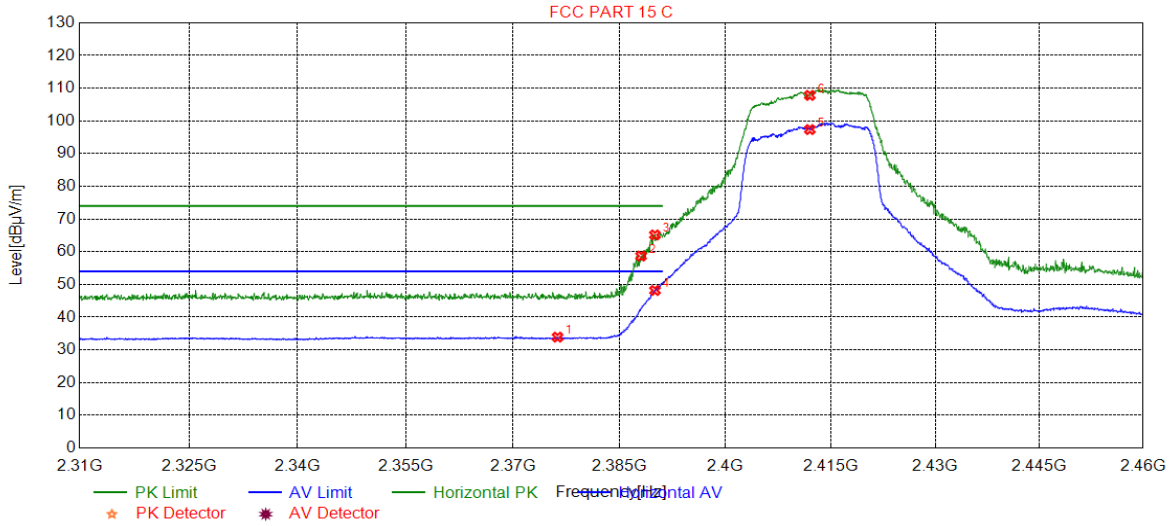
4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.258	33.91	54.00	20.09	178	263	Horizontal
2	2388.039	58.71	74.00	15.29	131	225	Horizontal
3	2389.990	65.15	74.00	8.85	142	210	Horizontal
4	2390.000	48.17	54.00	5.83	211	210	Horizontal
5	2412.000	97.37	0.00	-97.37	106	210	Horizontal
6	2412.000	107.82	0.00	-107.82	153	214	Horizontal

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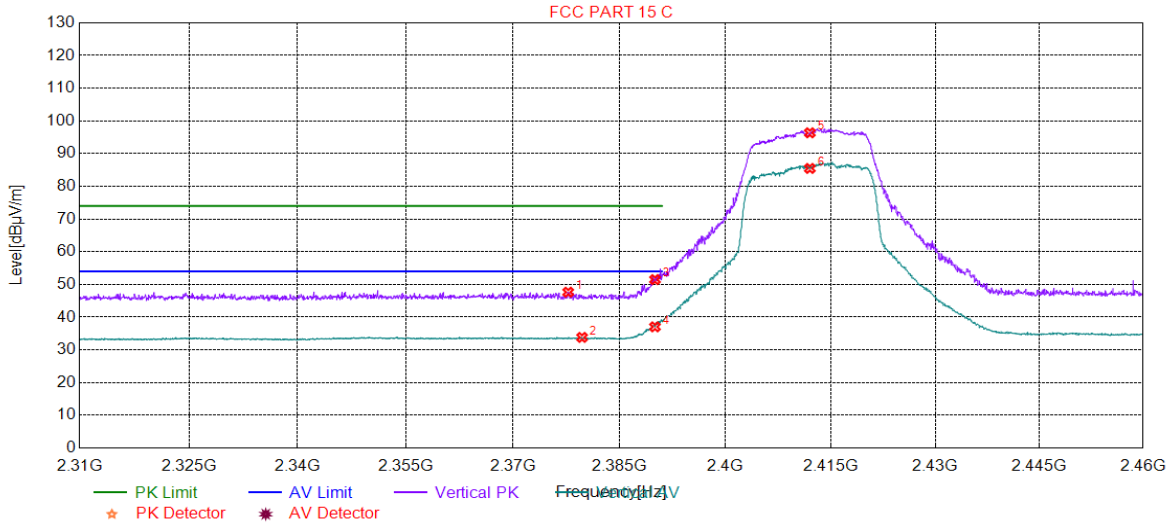
4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.758	47.66	74.00	26.34	202	180	Vertical
2	2379.709	33.83	54.00	20.17	150	263	Vertical
3	2390.000	51.50	74.00	22.50	215	286	Vertical
4	2390.000	37.05	54.00	16.95	164	278	Vertical
5	2412.000	96.37	0.00	-96.37	255	290	Vertical
6	2412.000	85.49	0.00	-85.49	279	286	Vertical

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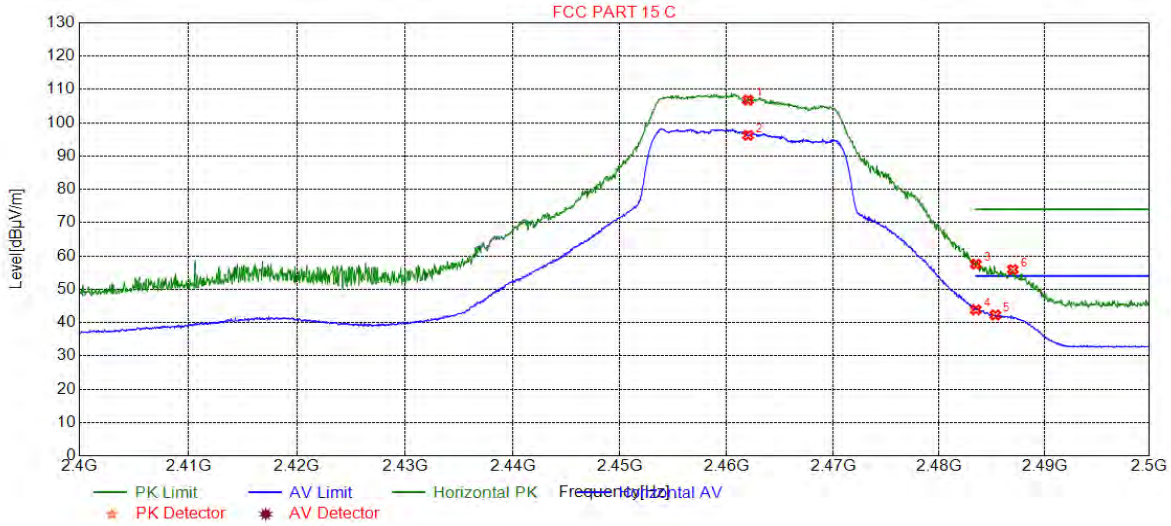
4.10.1.11 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.81	0.00	-106.81	220	210	Horizontal
2	2462.000	96.24	0.00	-96.24	217	210	Horizontal
3	2483.500	57.57	74.00	16.43	131	225	Horizontal
4	2483.500	43.88	54.00	10.12	165	206	Horizontal
5	2485.342	42.30	54.00	11.70	185	210	Horizontal
6	2486.993	55.96	74.00	18.04	203	206	Horizontal

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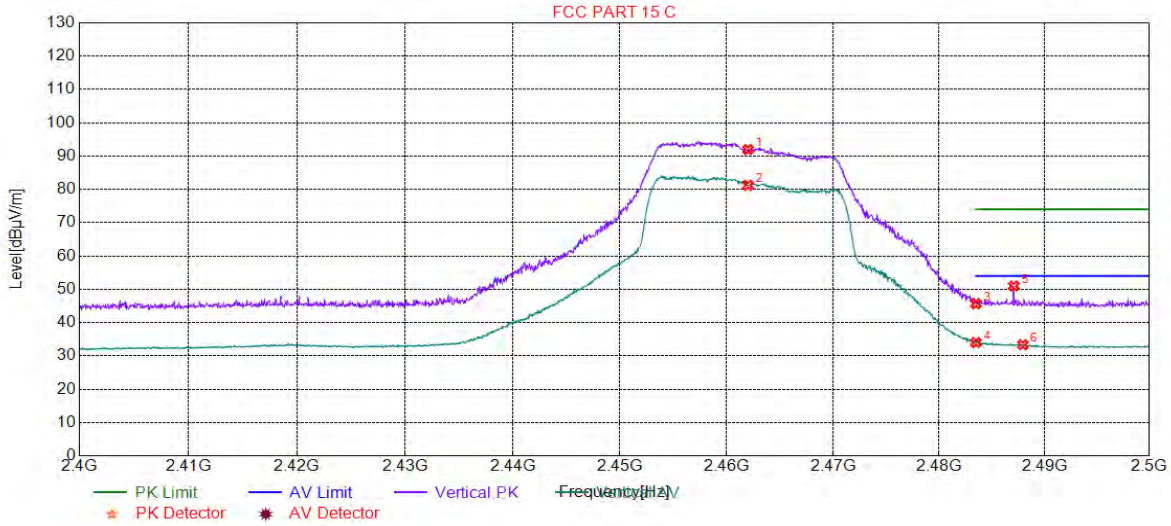
4.10.1.12 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	91.98	0.00	-91.98	178	214	Vertical
2	2462.000	81.24	0.00	-81.24	199	214	Vertical
3	2483.500	45.70	74.00	28.30	280	304	Vertical
4	2483.500	34.03	54.00	19.97	232	180	Vertical
5	2487.093	51.00	74.00	23.00	231	308	Vertical
6	2487.944	33.38	54.00	20.62	258	199	Vertical

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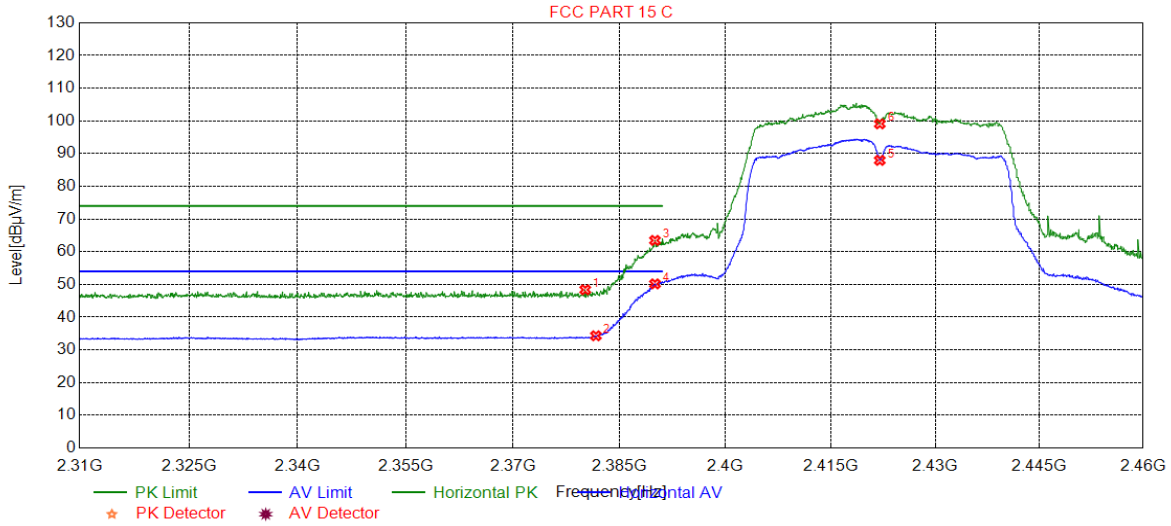
4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.160	48.39	74.00	25.61	143	89	Horizontal
2	2381.660	34.32	54.00	19.68	240	222	Horizontal
3	2390.000	63.48	74.00	10.52	200	222	Horizontal
4	2390.000	50.18	54.00	3.82	199	222	Horizontal
5	2422.000	87.95	0.00	-87.95	146	218	Horizontal
6	2422.000	99.11	0.00	-99.11	159	226	Horizontal

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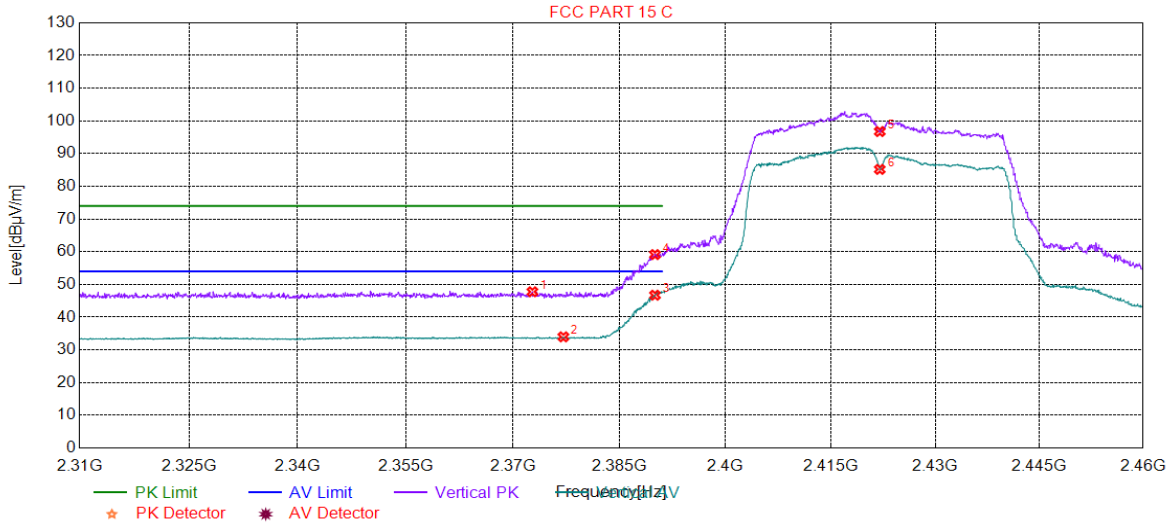
4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.731	47.77	74.00	26.23	220	204	Vertical
2	2377.083	33.99	54.00	20.01	224	198	Vertical
3	2390.000	46.73	54.00	7.27	249	183	Vertical
4	2390.000	59.14	74.00	14.86	198	190	Vertical
5	2422.000	96.76	0.00	-96.76	256	183	Vertical
6	2422.000	85.19	0.00	-85.19	168	179	Vertical

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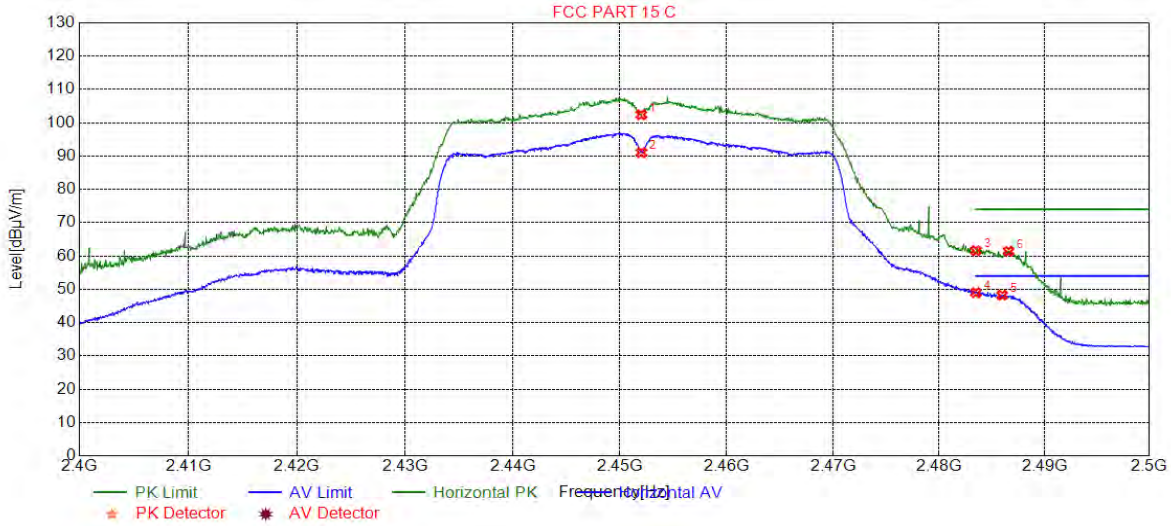
4.10.1.15 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	102.40	0.00	-102.40	204	216	Horizontal
2	2452.000	91.05	0.00	-91.05	206	216	Horizontal
3	2483.500	61.61	74.00	12.39	146	202	Horizontal
4	2483.500	49.01	54.00	4.99	114	206	Horizontal
5	2485.993	48.24	54.00	5.76	122	214	Horizontal
6	2486.593	61.42	74.00	12.58	140	206	Horizontal

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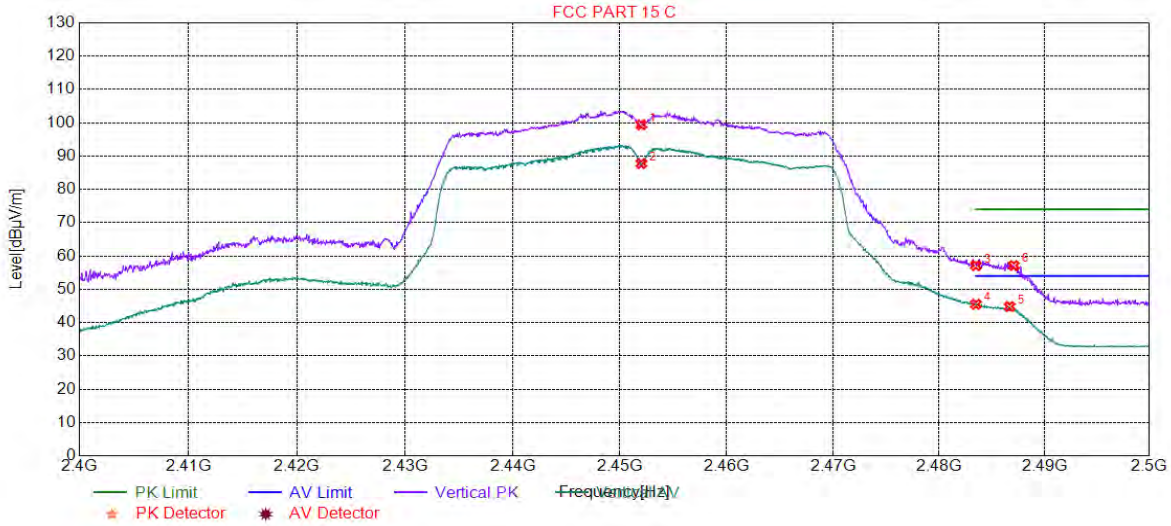
4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	99.39	0.00	-99.39	184	174	Vertical
2	2452.000	87.75	0.00	-87.75	196	174	Vertical
3	2483.500	57.13	74.00	16.87	298	180	Vertical
4	2483.500	45.51	54.00	8.49	188	175	Vertical
5	2486.693	44.84	54.00	9.16	230	175	Vertical
6	2487.093	57.16	74.00	16.84	247	175	Vertical

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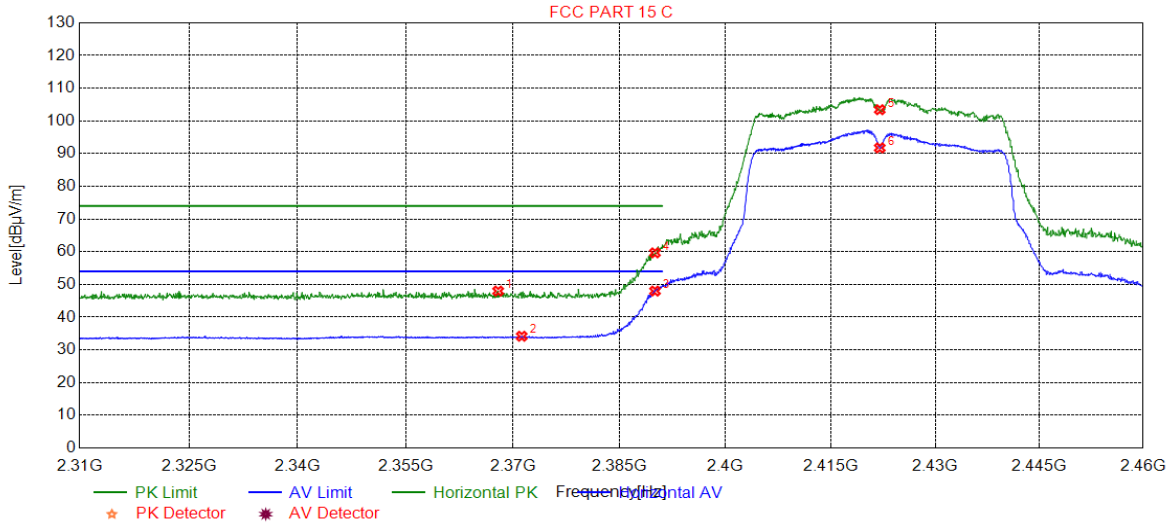
Test on the worst case:

4.10.1.17 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.929	47.99	74.00	26.01	219	234	Horizontal
2	2371.230	34.18	54.00	19.82	167	226	Horizontal
3	2390.000	48.00	54.00	6.00	182	257	Horizontal
4	2390.000	59.68	74.00	14.32	226	253	Horizontal
5	2422.000	103.44	0.00	-103.44	214	253	Horizontal
6	2422.000	91.76	0.00	-91.76	108	253	Horizontal

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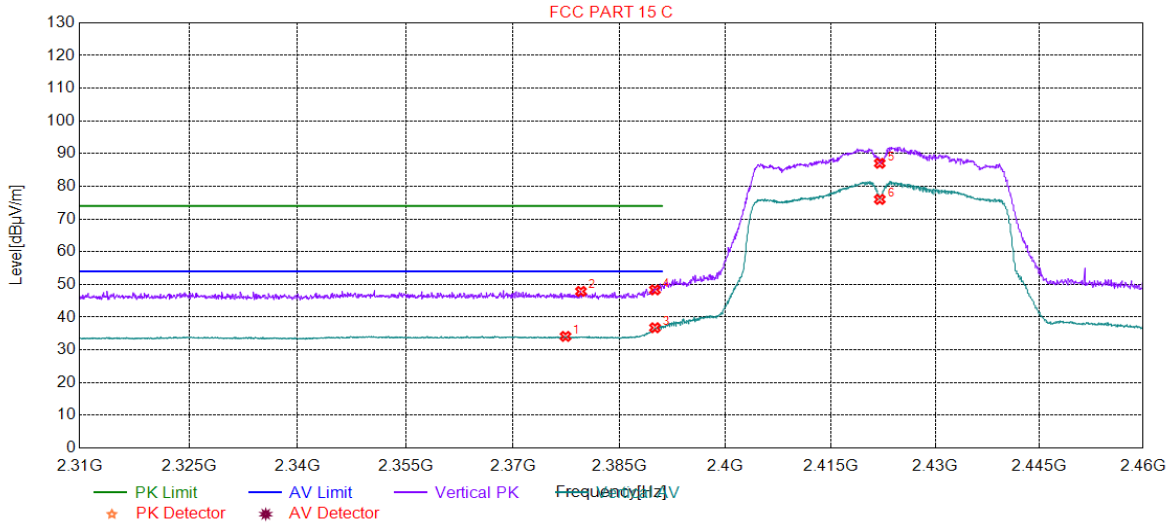
4.10.1.18 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.383	34.13	54.00	19.87	298	346	Vertical
2	2379.559	47.89	74.00	26.11	176	304	Vertical
3	2390.000	36.78	54.00	17.22	239	4	Vertical
4	2390.000	48.35	74.00	25.65	239	4	Vertical
5	2422.000	87.05	0.00	-87.05	177	343	Vertical
6	2422.000	76.02	0.00	-76.02	278	39	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	±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	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (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	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-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 - Photographs of Set-Up for AR/2020/C0004.

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DTS Bandwidth

Test Result

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

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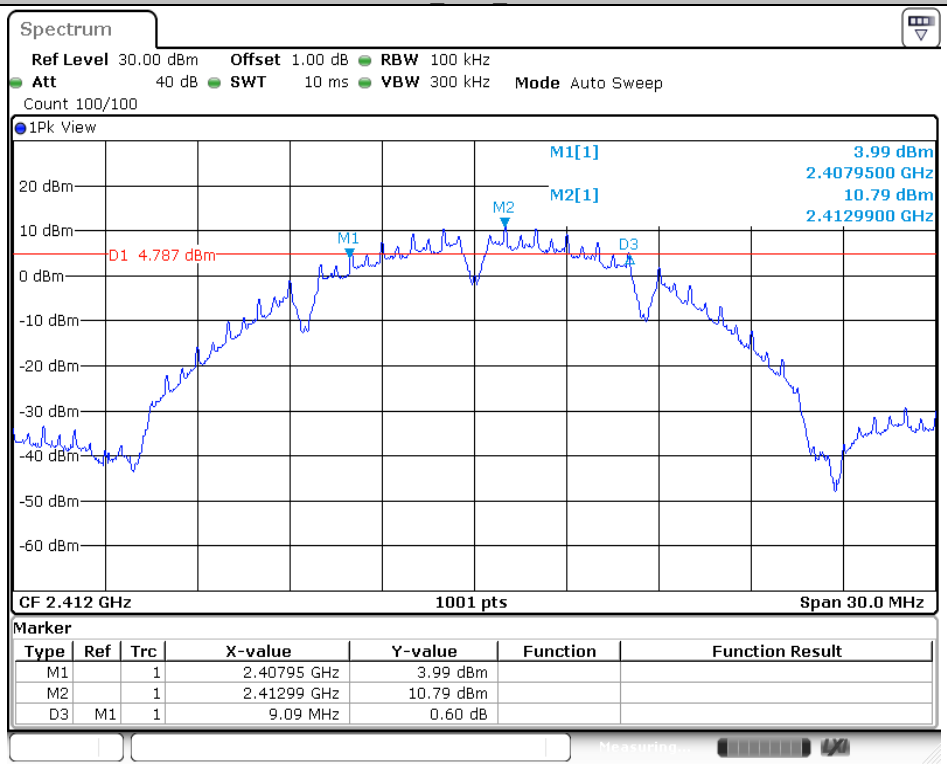
Test Graphs

11B_Ant1_2412



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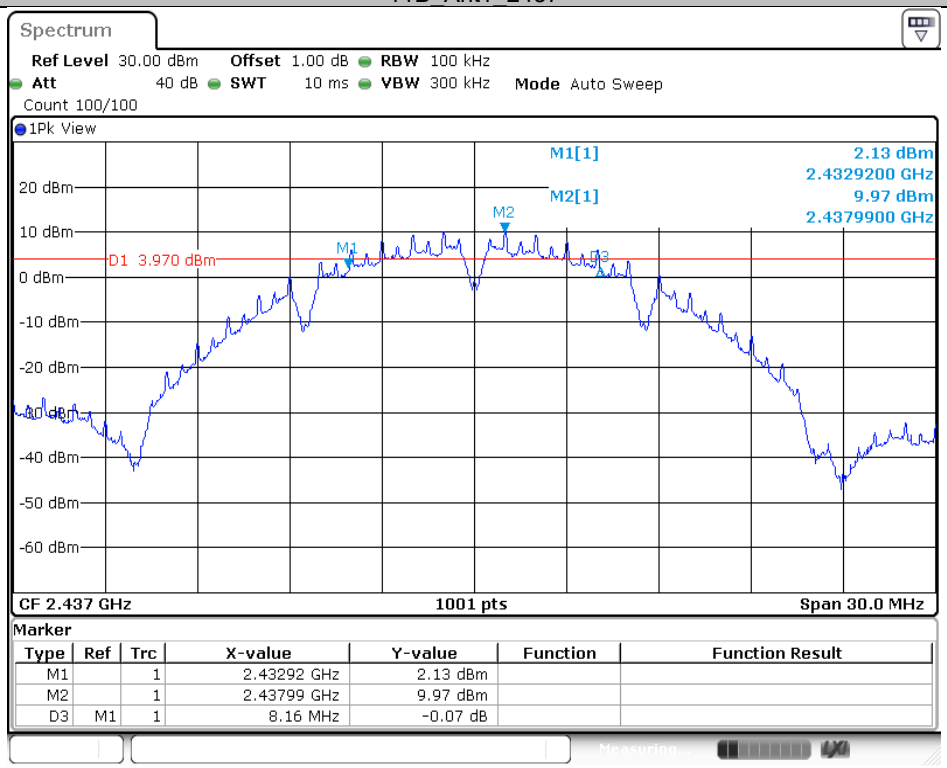

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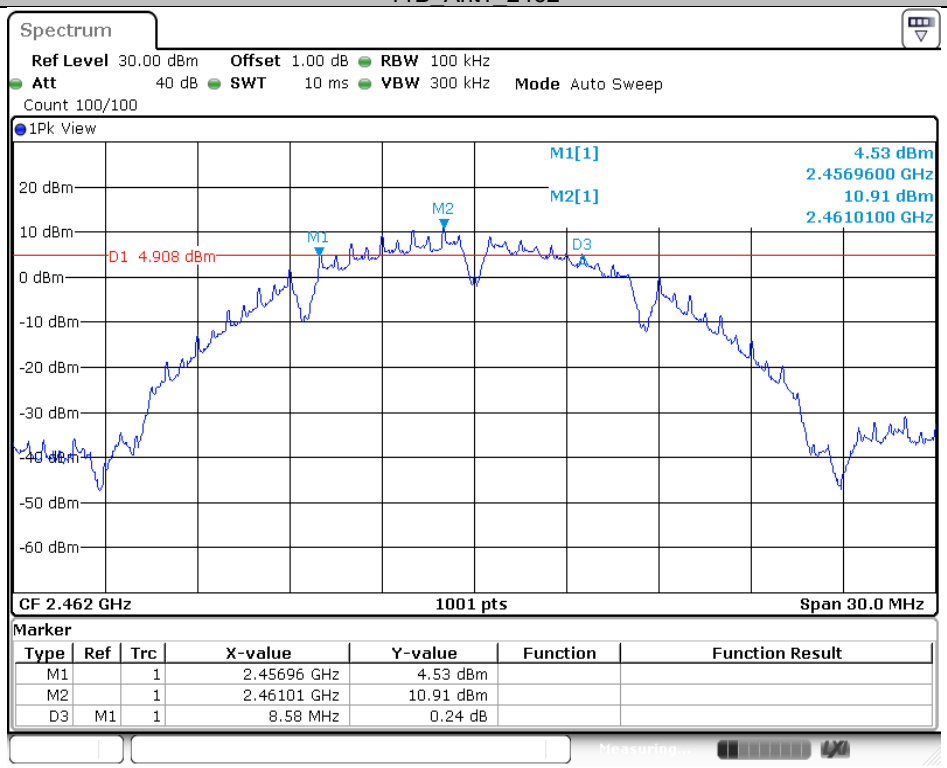

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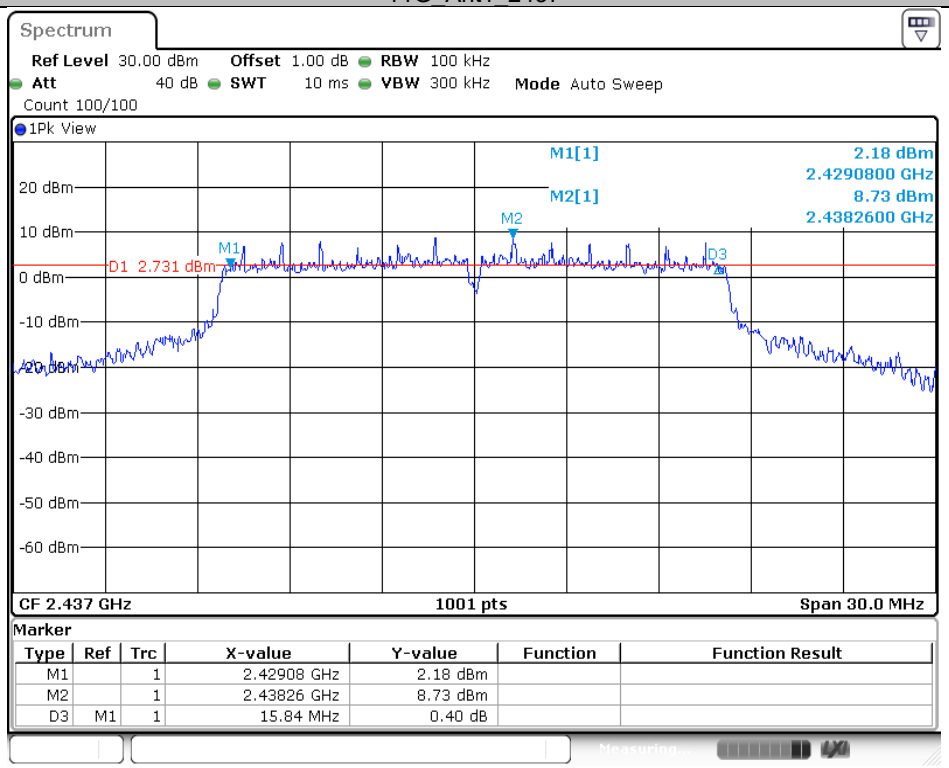

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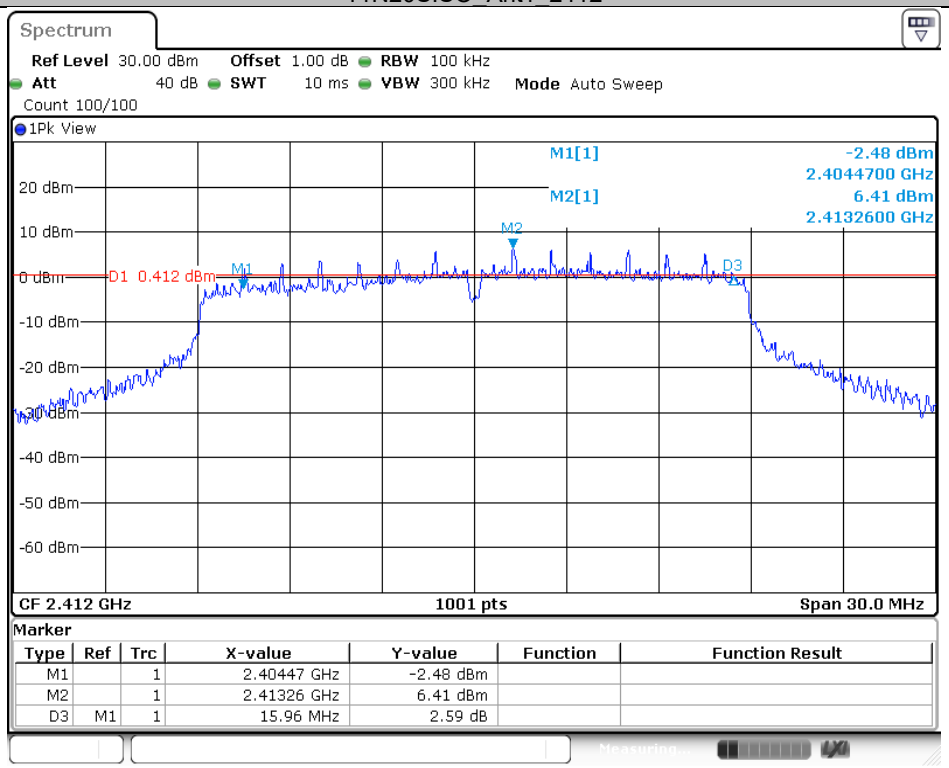

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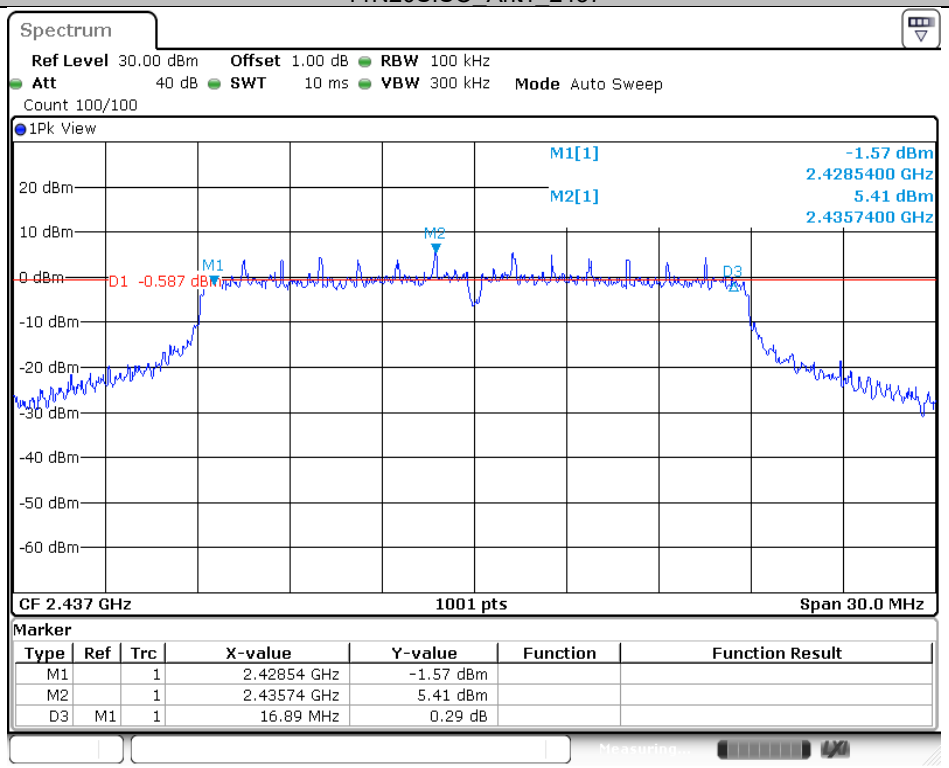

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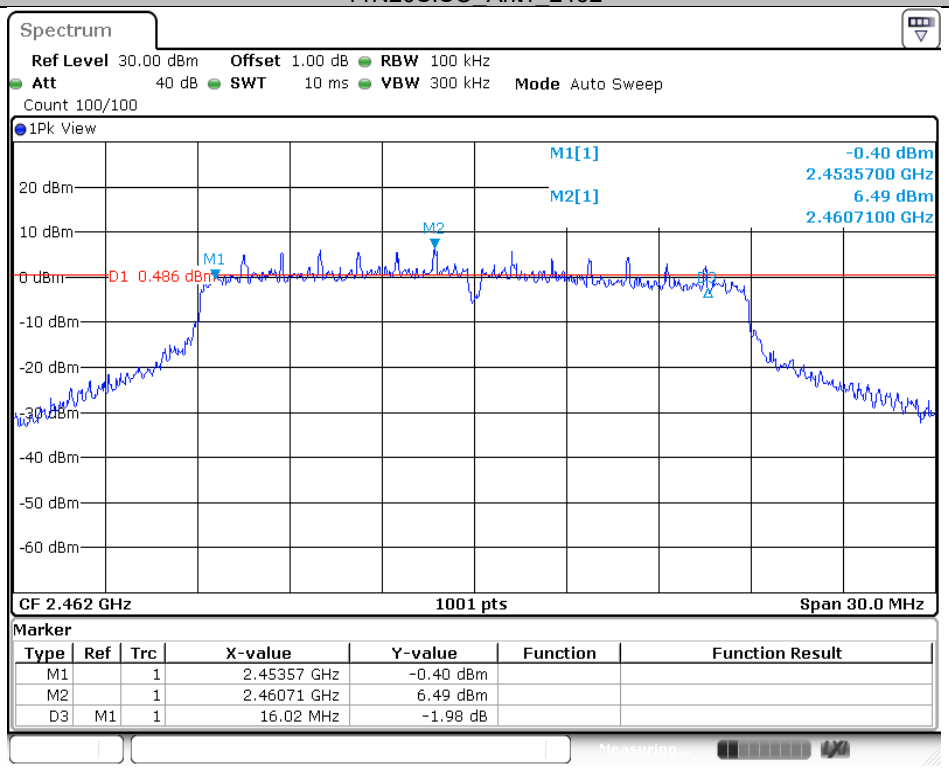

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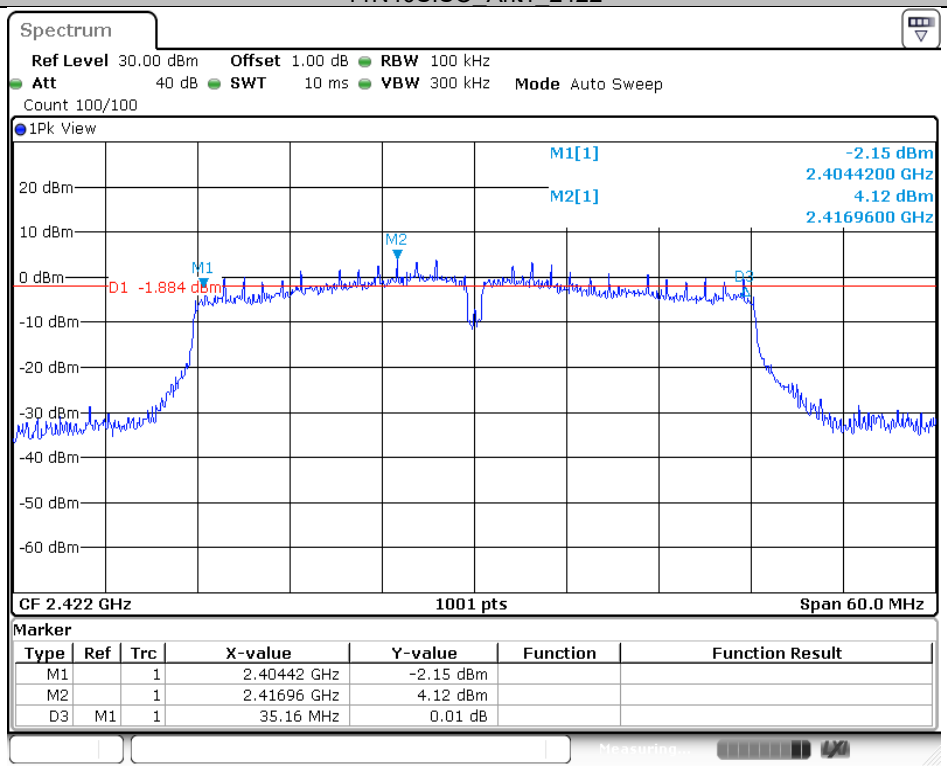

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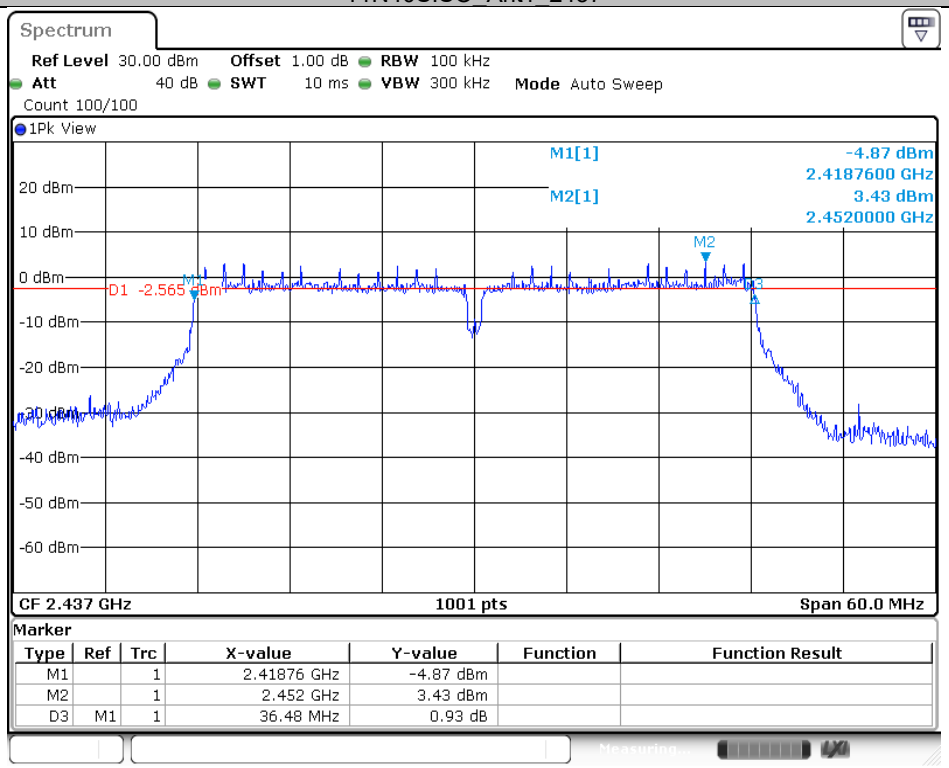

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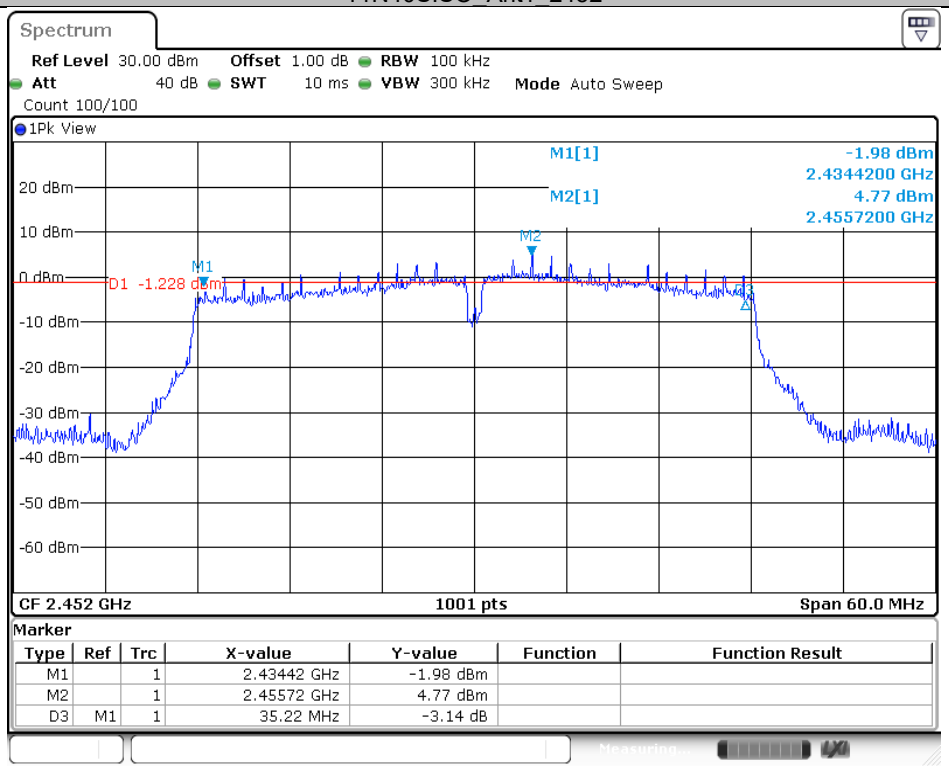

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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.906	2405.407	2419.313	---	PASS
		2437	14.146	2429.987	2444.133	---	PASS
		2462	14.056	2454.837	2468.893	---	PASS
11G	Ant1	2412	17.083	2403.758	2420.841	---	PASS
		2437	17.413	2428.249	2445.661	---	PASS
		2462	16.873	2453.548	2470.422	---	PASS
11N20SISO	Ant1	2412	17.982	2403.189	2421.171	---	PASS
		2437	18.192	2427.949	2446.141	---	PASS
		2462	17.892	2453.009	2470.901	---	PASS
11N40SISO	Ant1	2422	36.324	2403.958	2440.282	---	PASS
		2437	36.983	2418.598	2455.581	---	PASS
		2452	36.264	2434.018	2470.282	---	PASS

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Test Graphs

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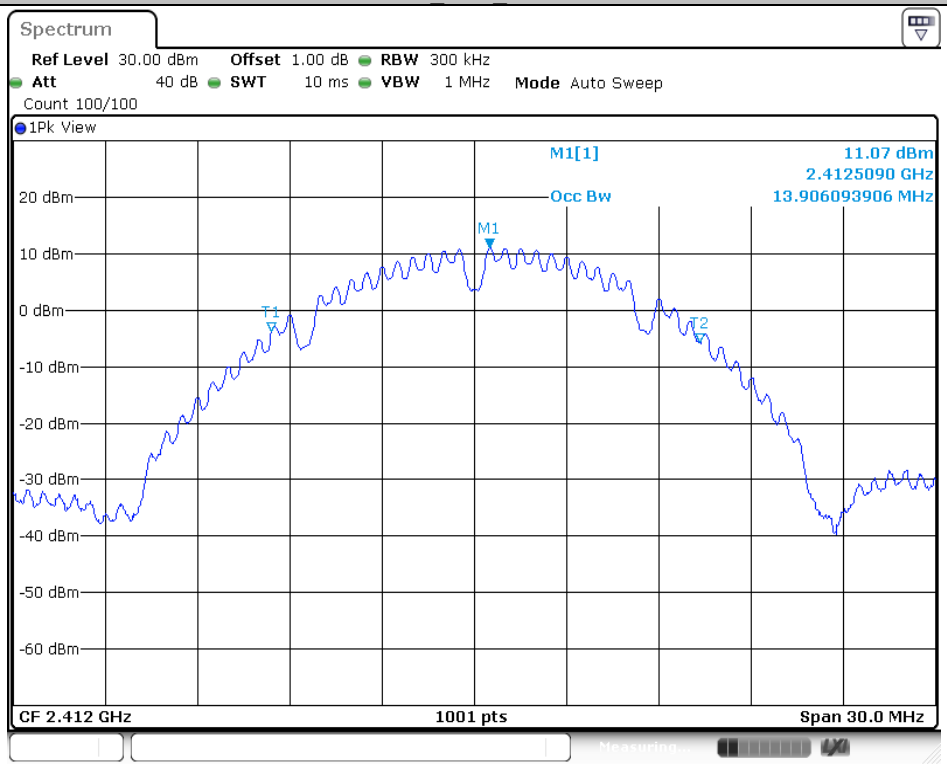

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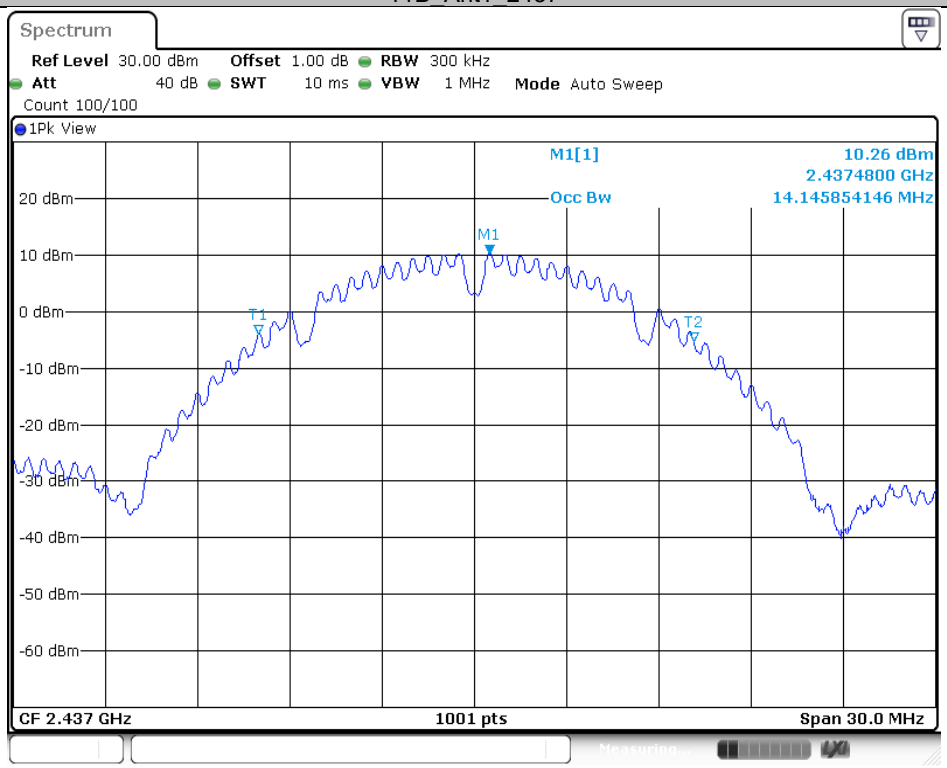

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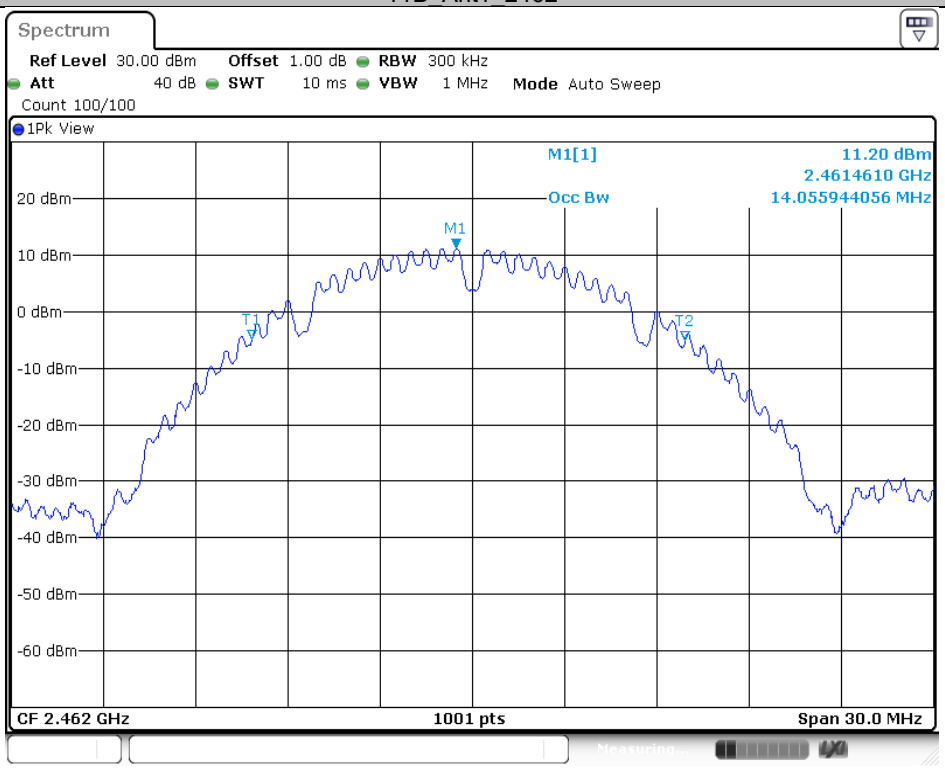

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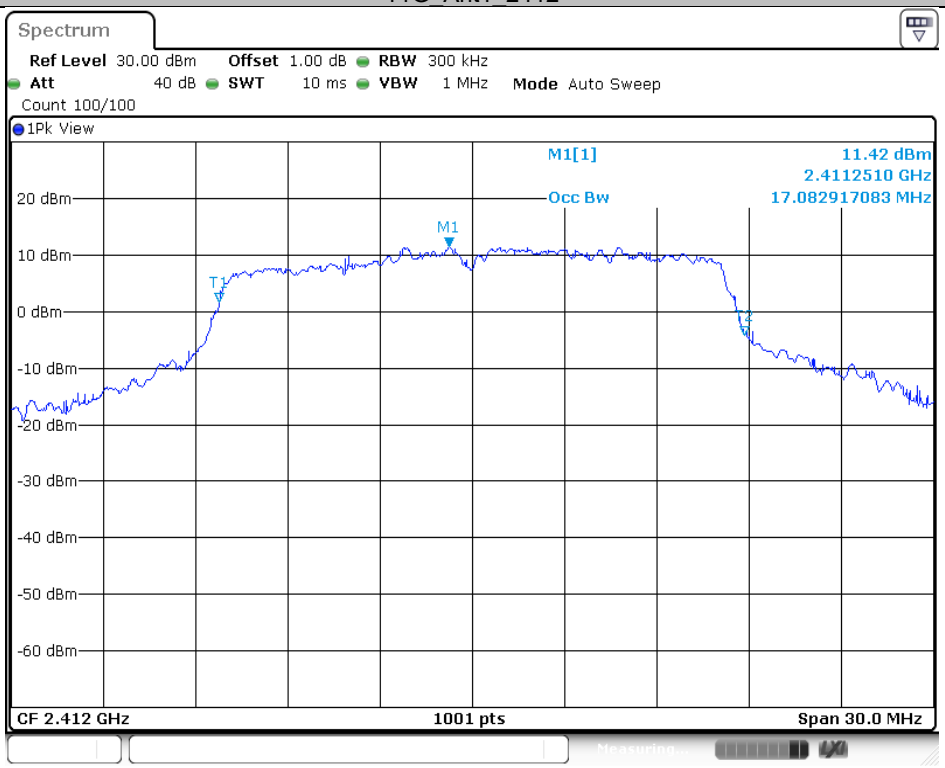

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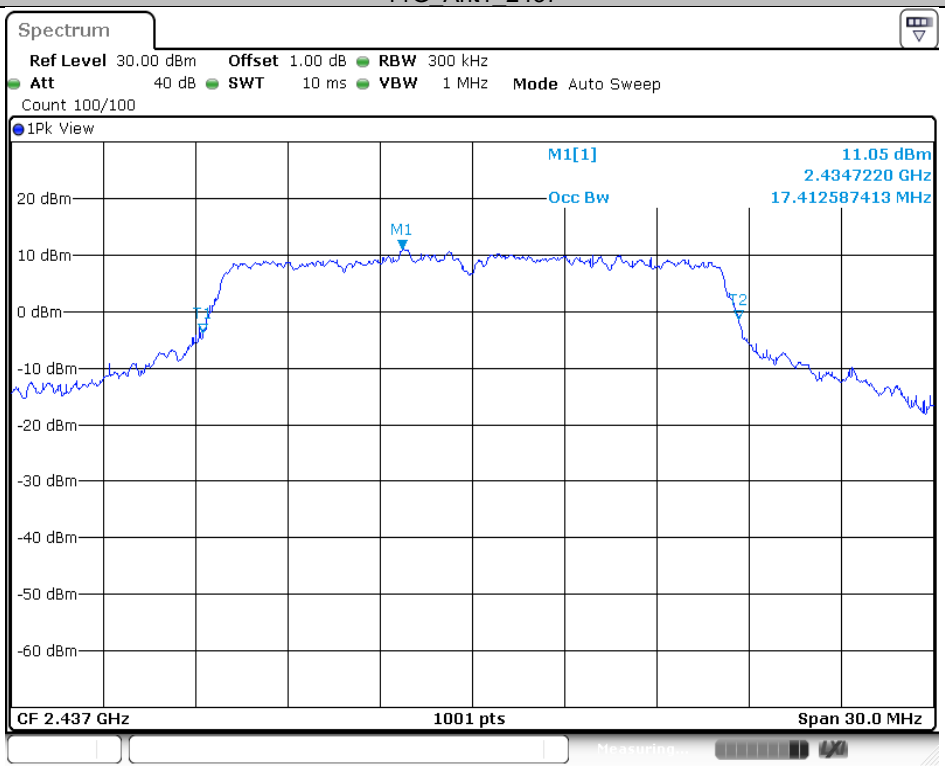

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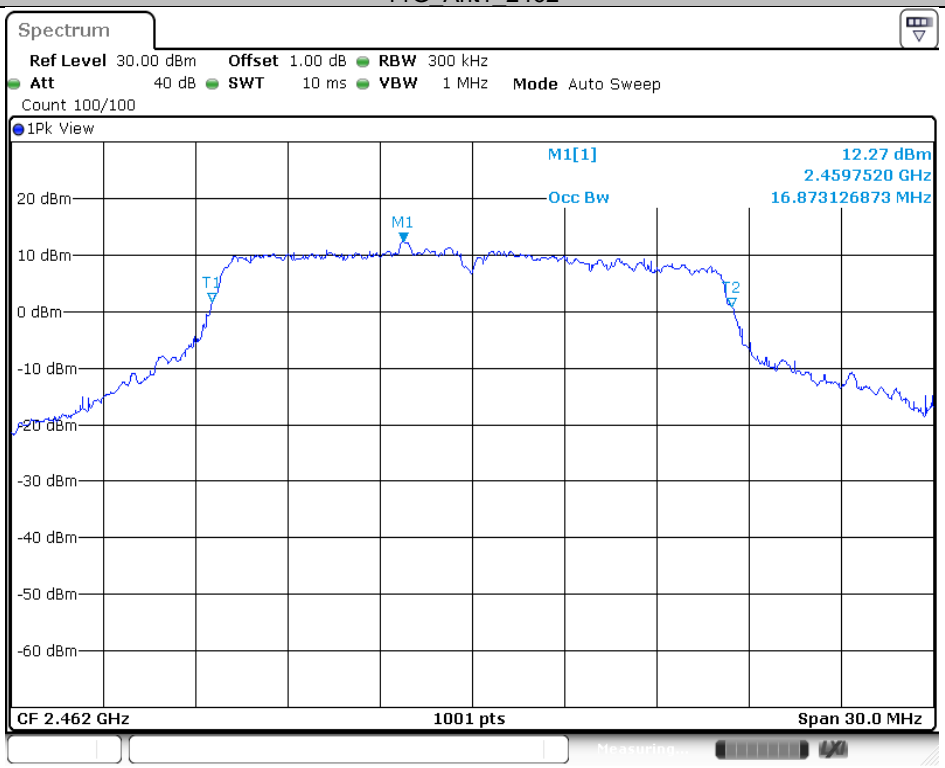

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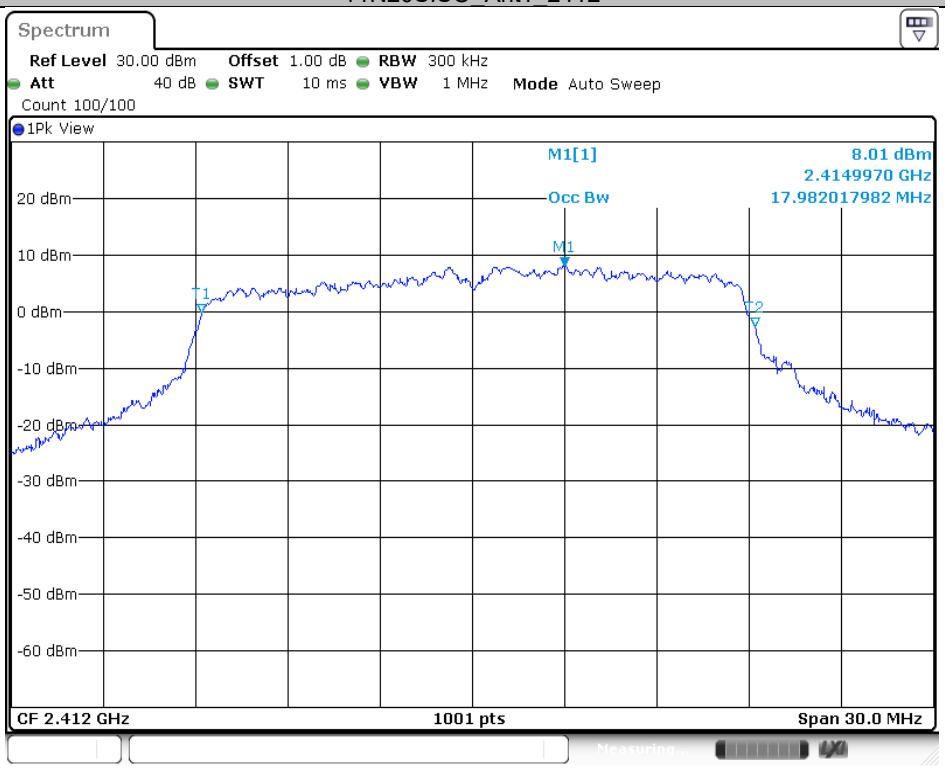

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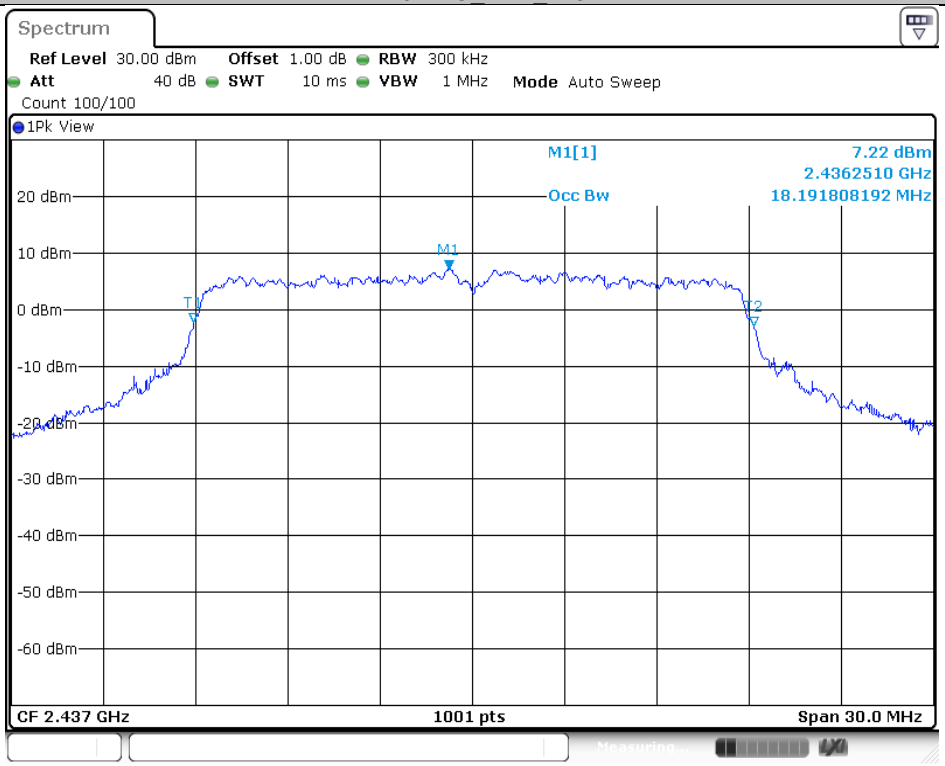

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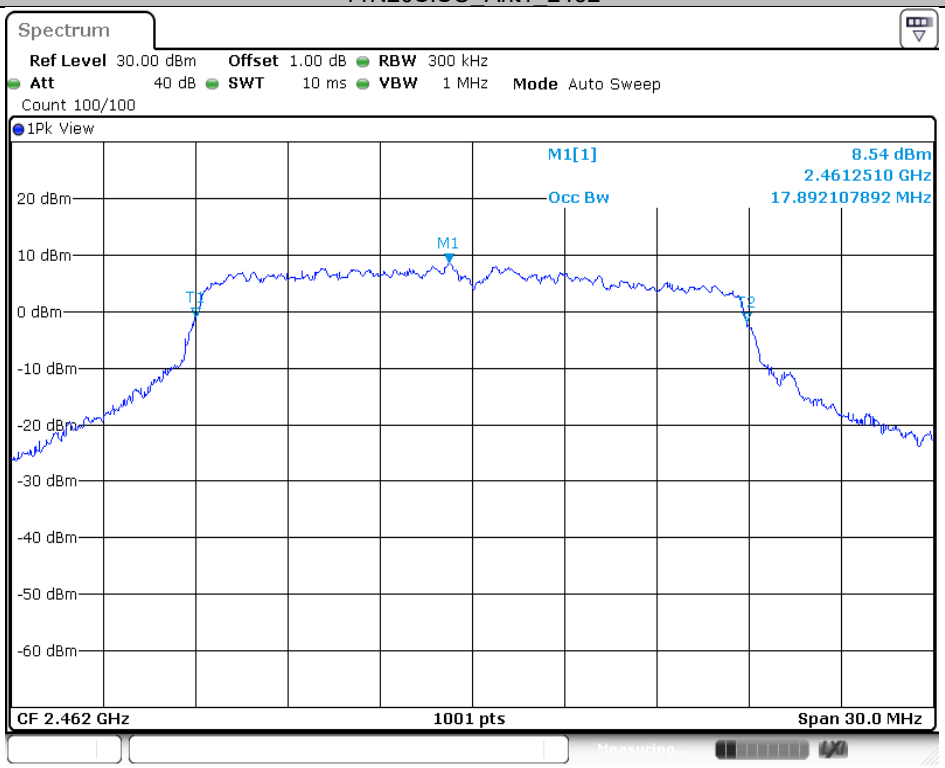

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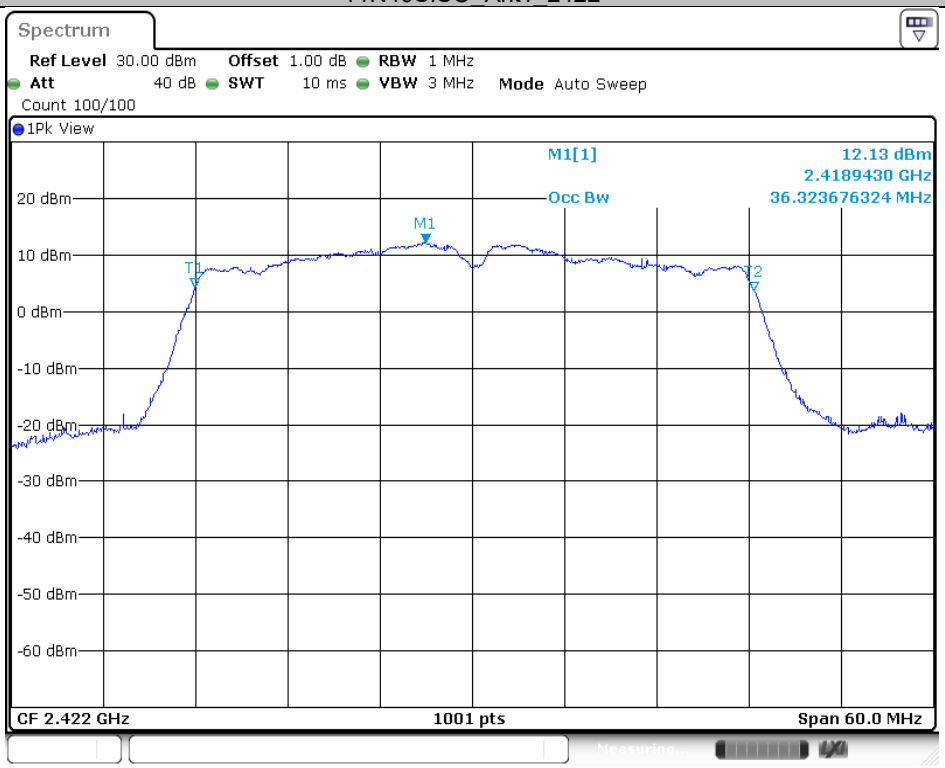

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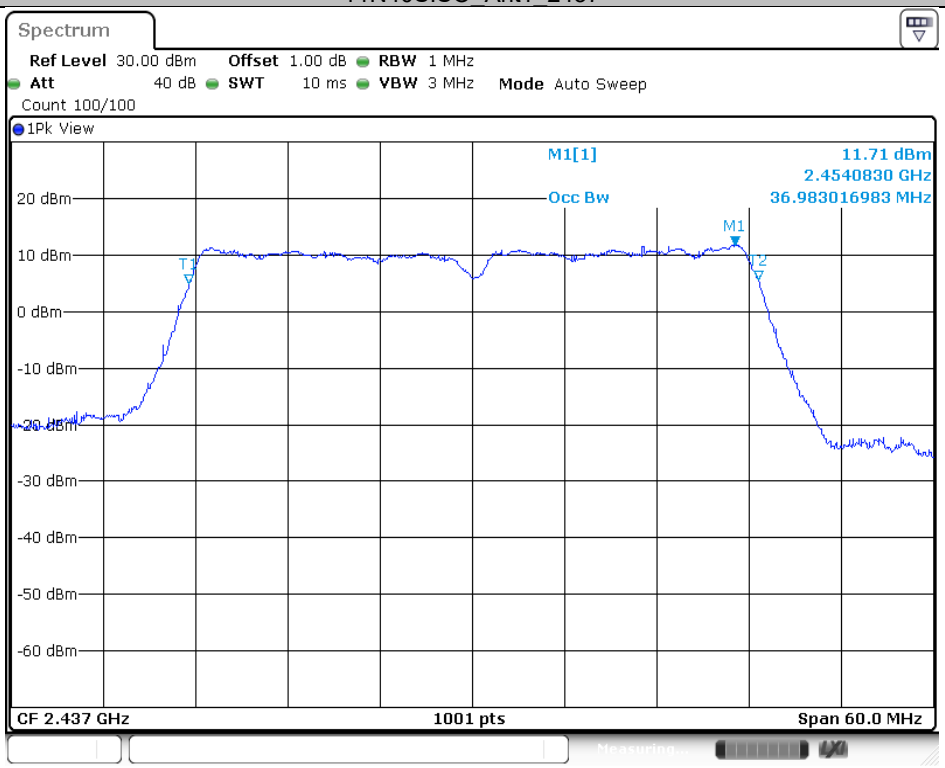

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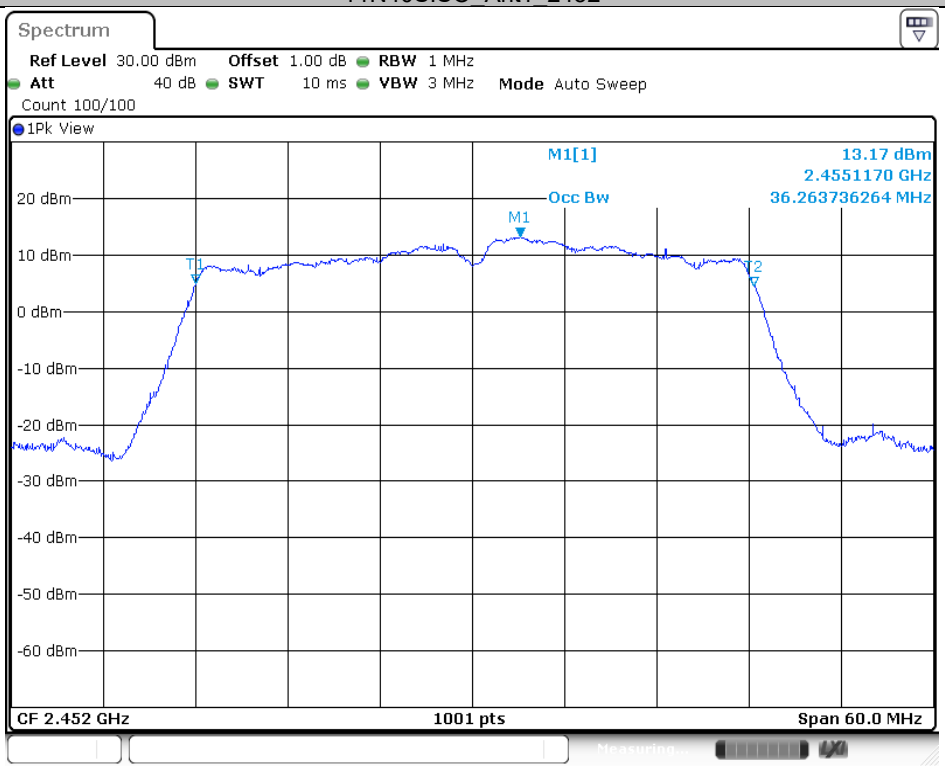

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Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.52	<=30	PASS
		2437	18.45	<=30	PASS
		2462	19.01	<=30	PASS
11G	Ant1	2412	19.21	<=30	PASS
		2437	18.73	<=30	PASS
		2462	19.08	<=30	PASS
11N20SISO	Ant1	2412	15.59	<=30	PASS
		2437	15.48	<=30	PASS
		2462	15.73	<=30	PASS
11N40SISO	Ant1	2422	16.55	<=30	PASS
		2437	16.62	<=30	PASS
		2452	16.48	<=30	PASS

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Maximum power spectral density

Test Result

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

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Test Graphs

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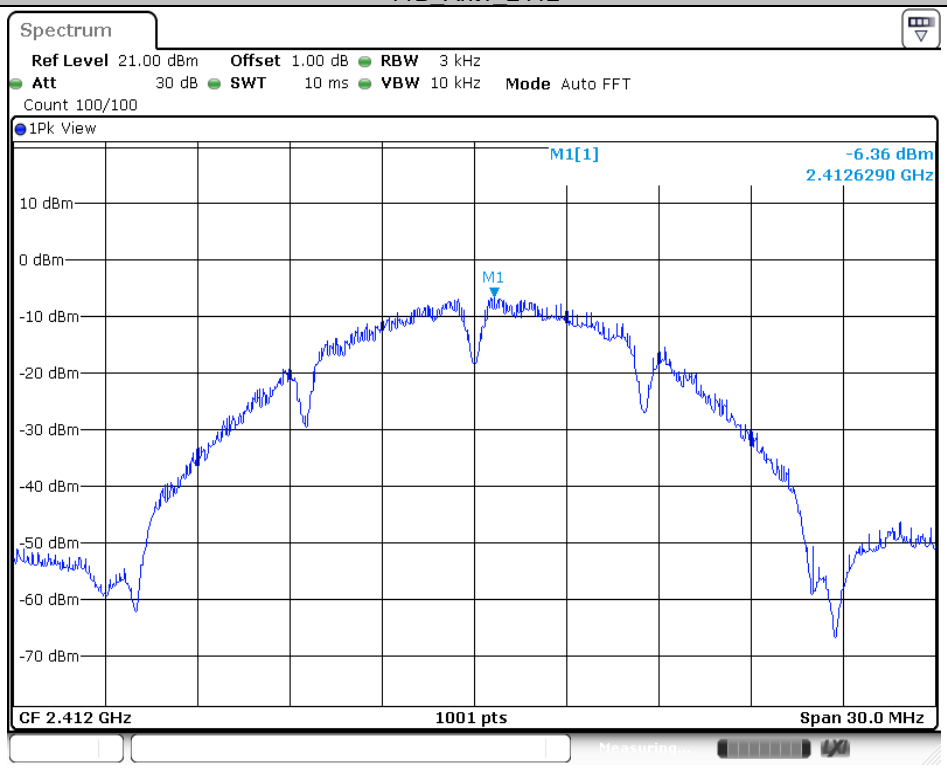

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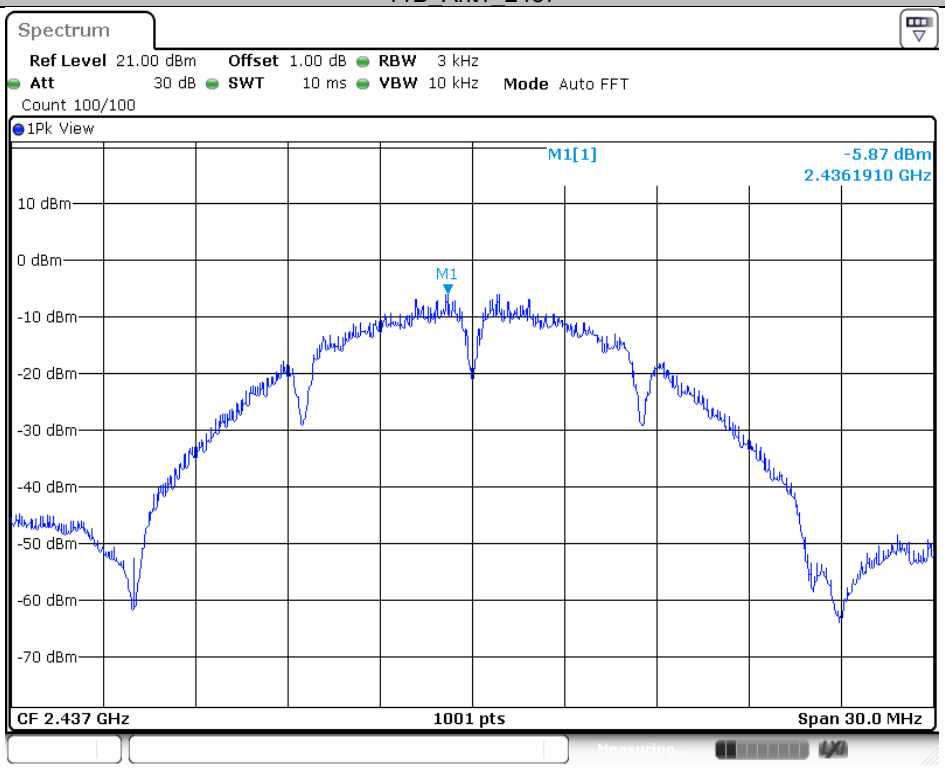

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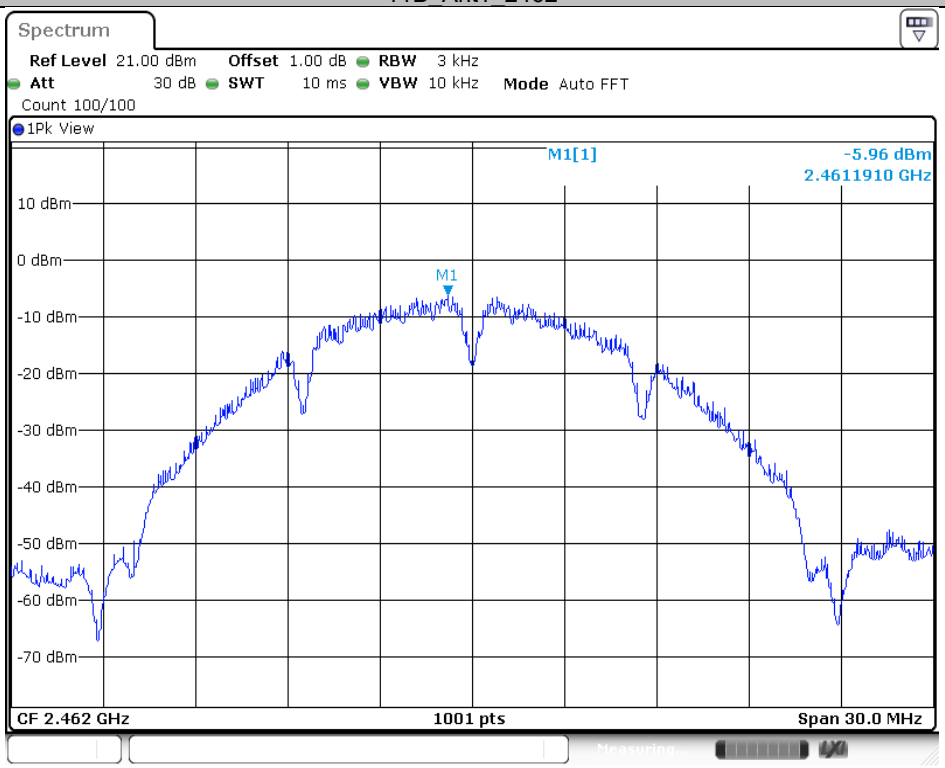

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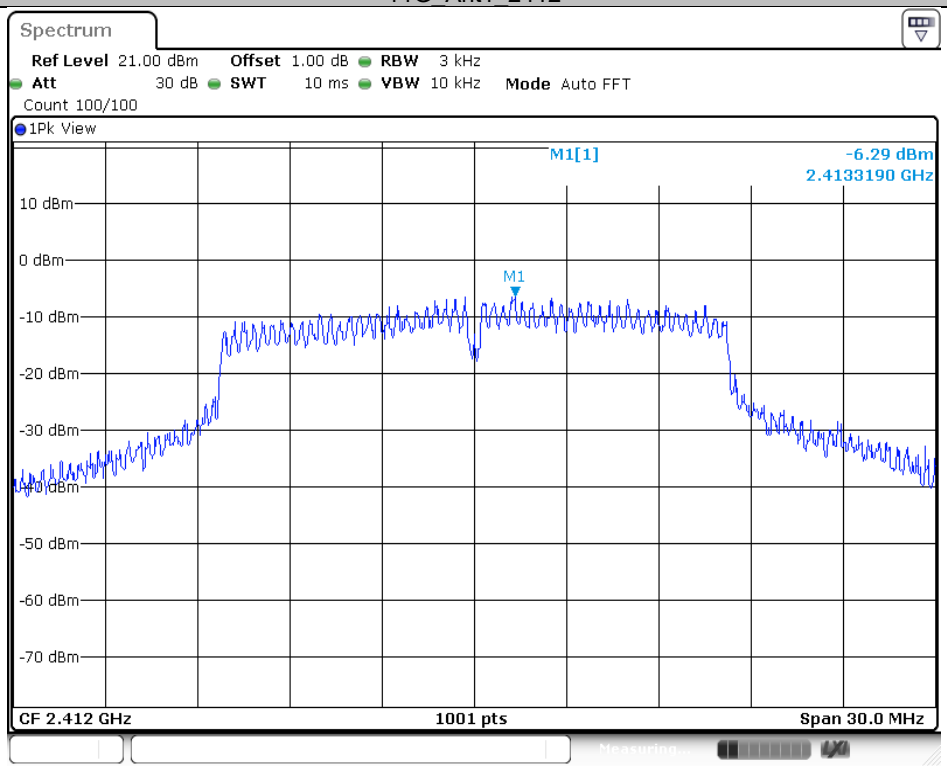

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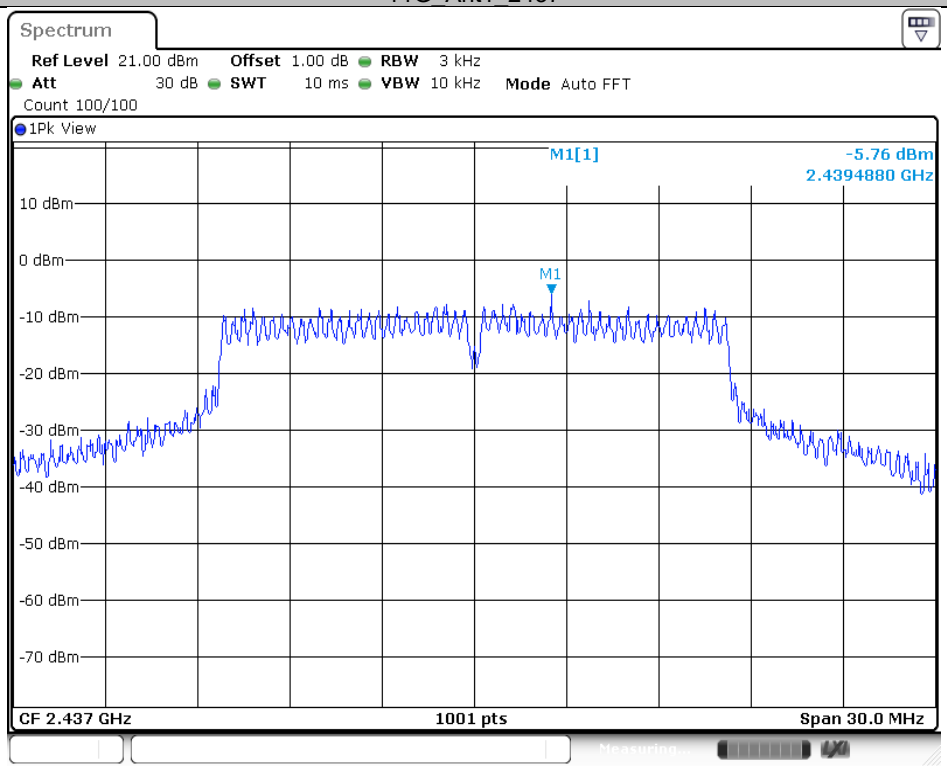

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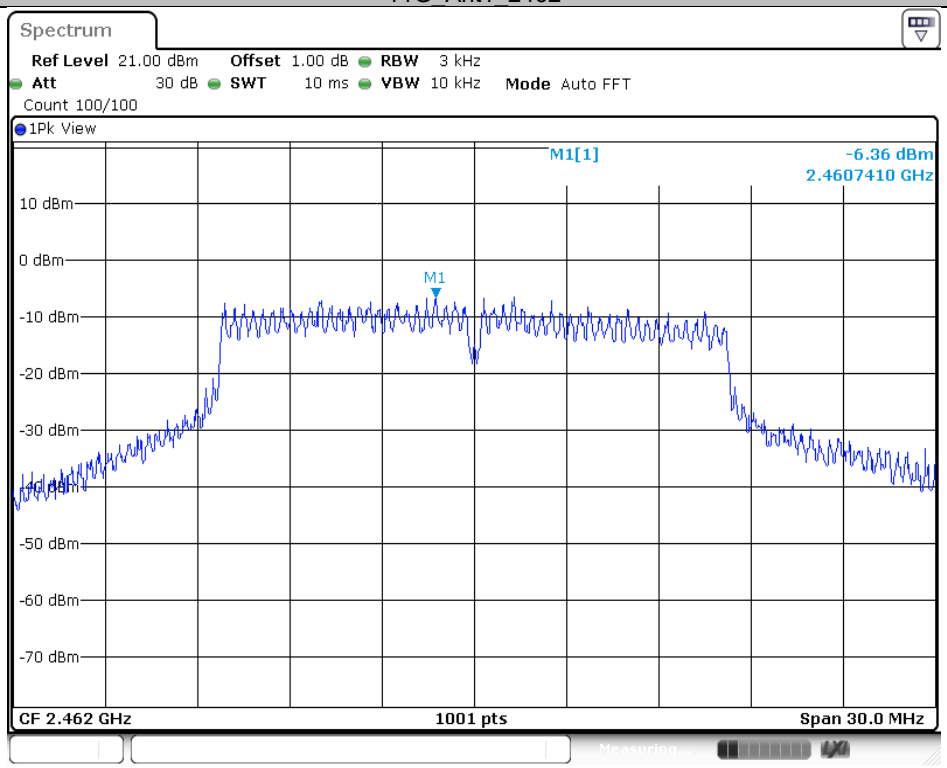

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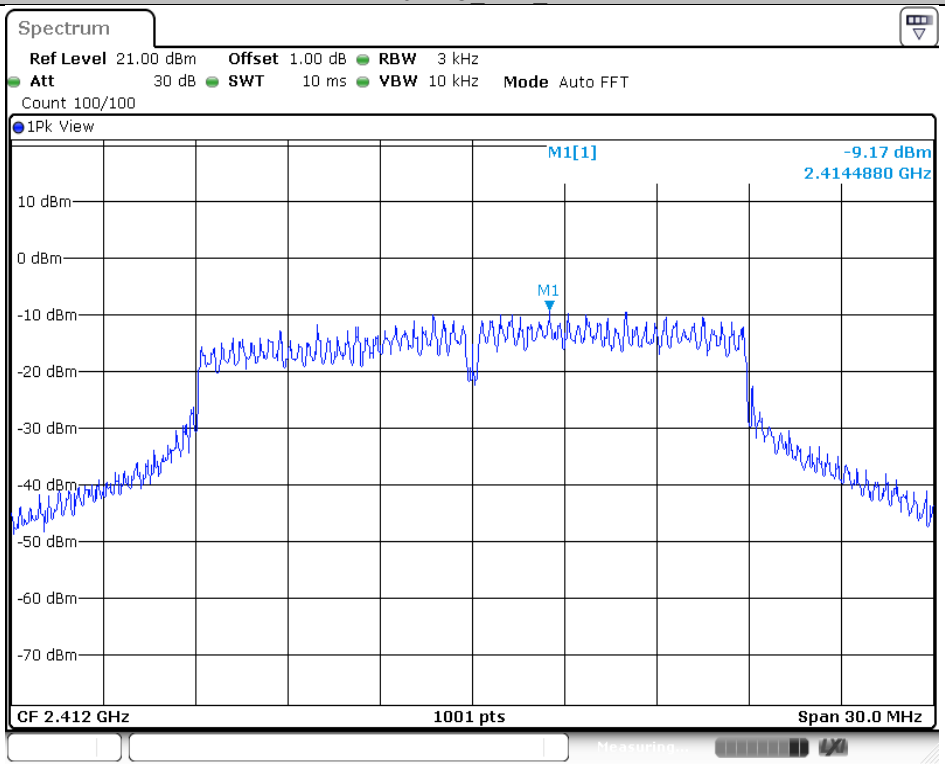

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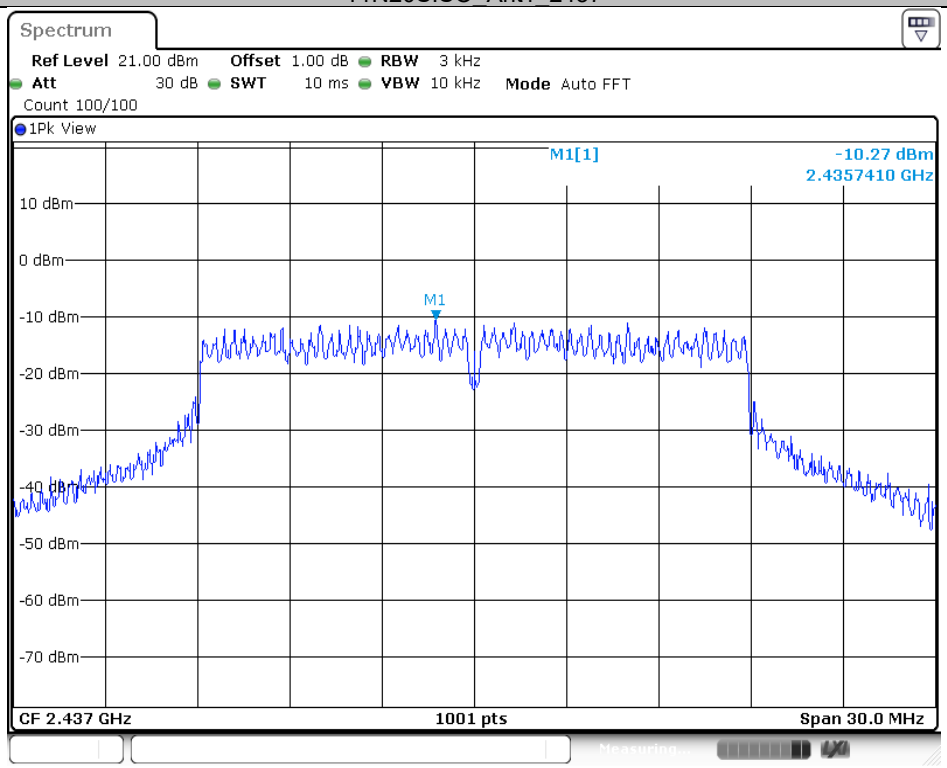

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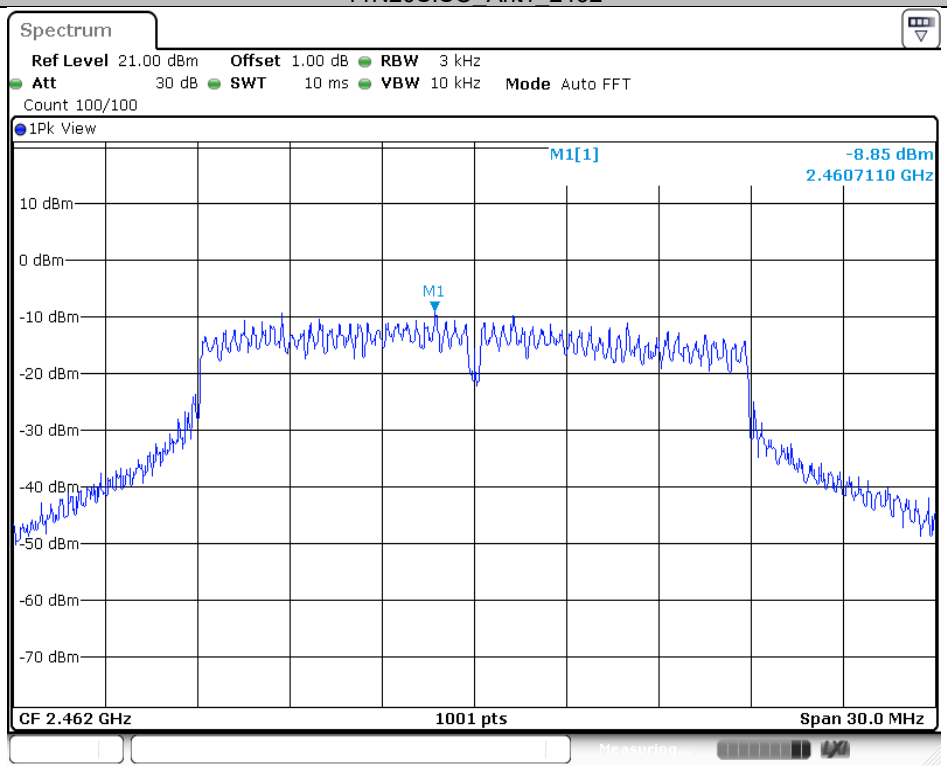
11N20SISO_Ant1_2462



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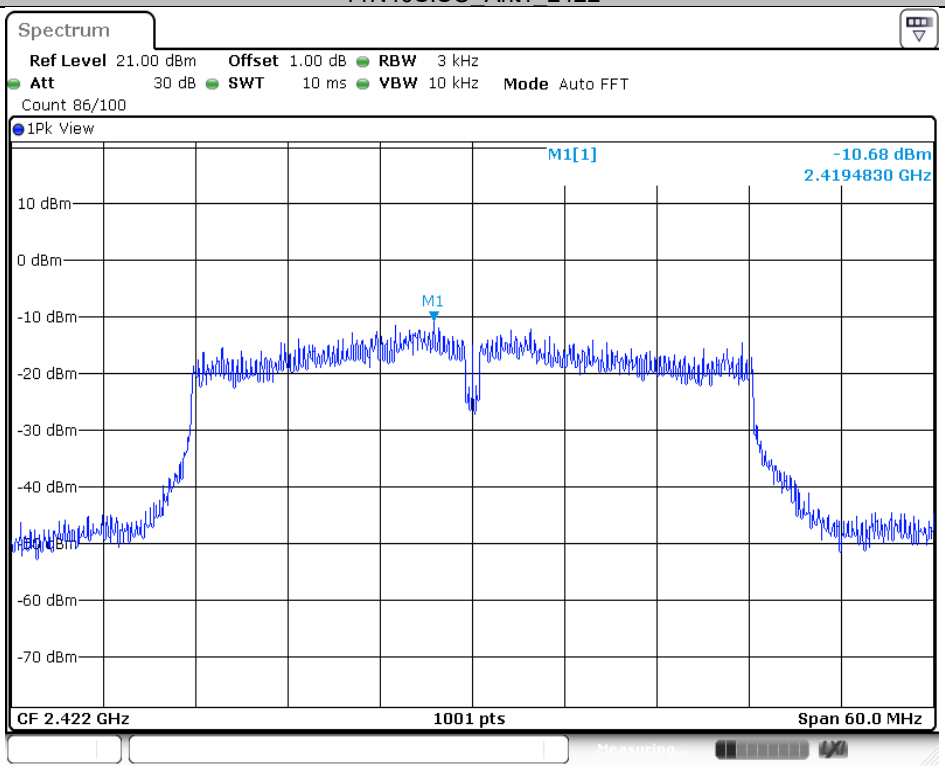
11N40SISO_Ant1_2422



Date: 24.DEC.2020 10:45:02

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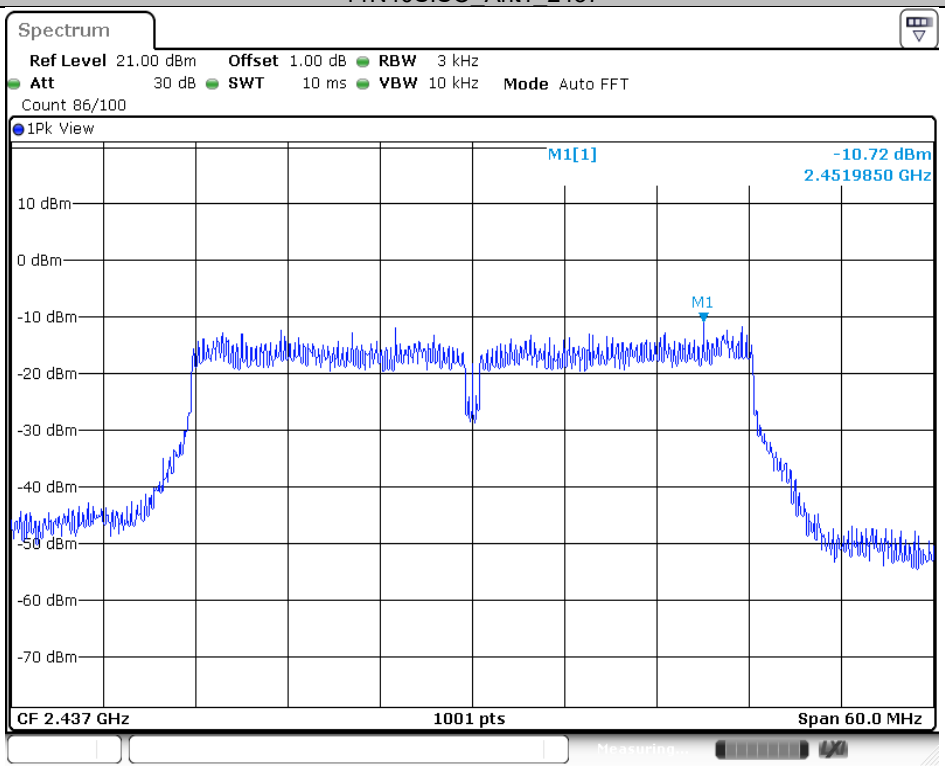

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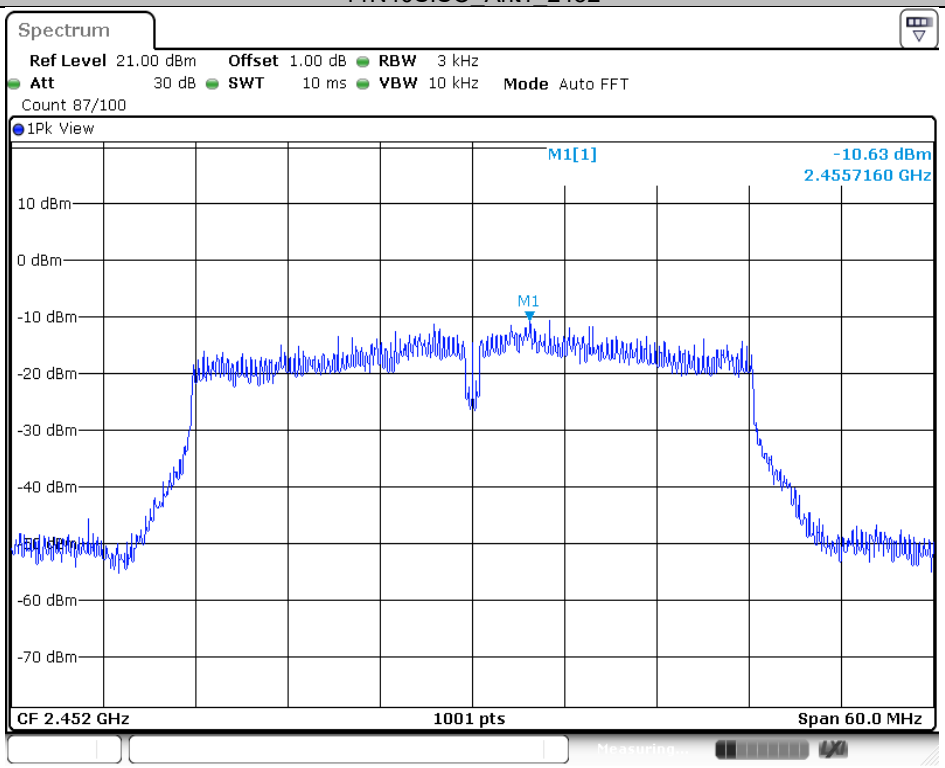
11N40SISO_Ant1_2452



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Band edge measurements

Test Result

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

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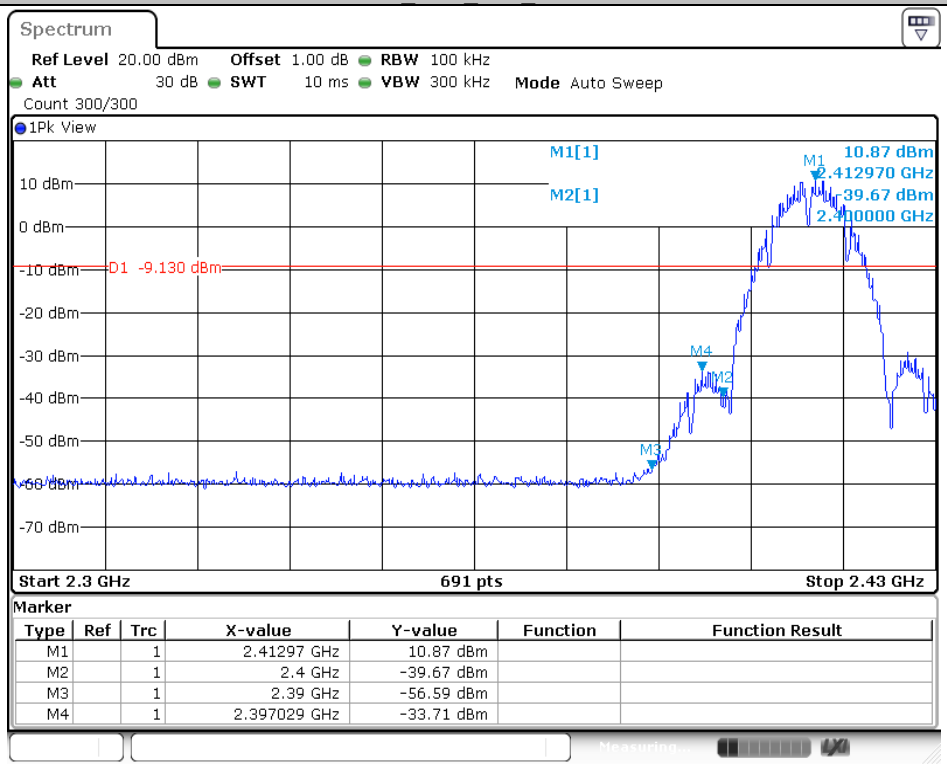
Test Graphs

11B_Ant1_Low_2412



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41297 GHz	10.87 dBm		
M2		1	2.4 GHz	-39.67 dBm		
M3		1	2.39 GHz	-56.59 dBm		
M4		1	2.397029 GHz	-33.71 dBm		

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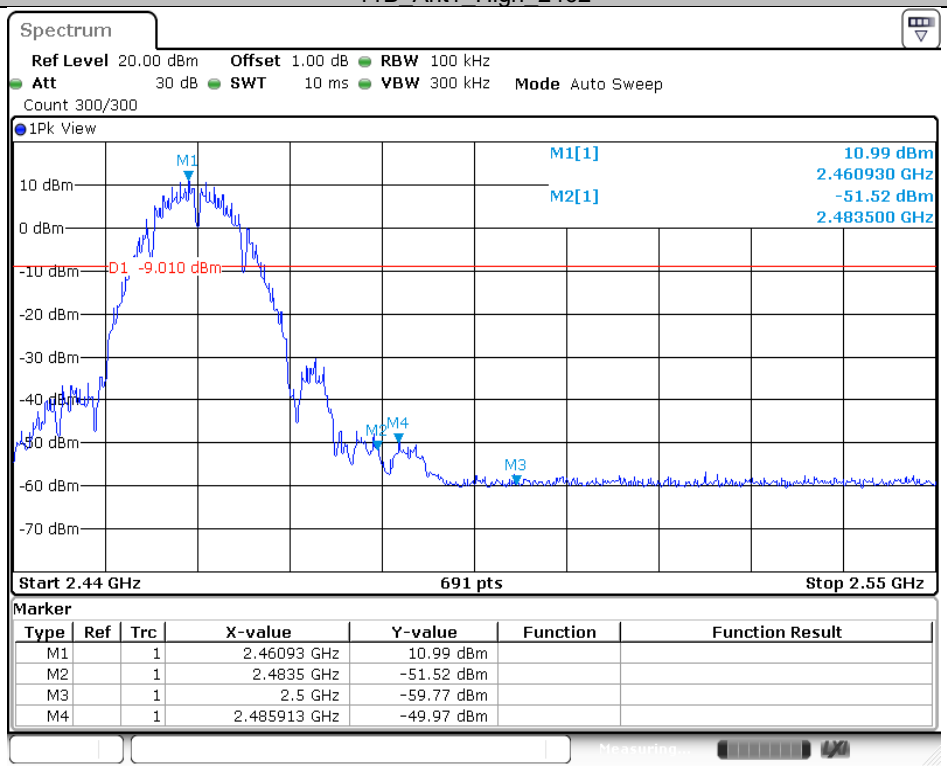
11B_Ant1_High_2462



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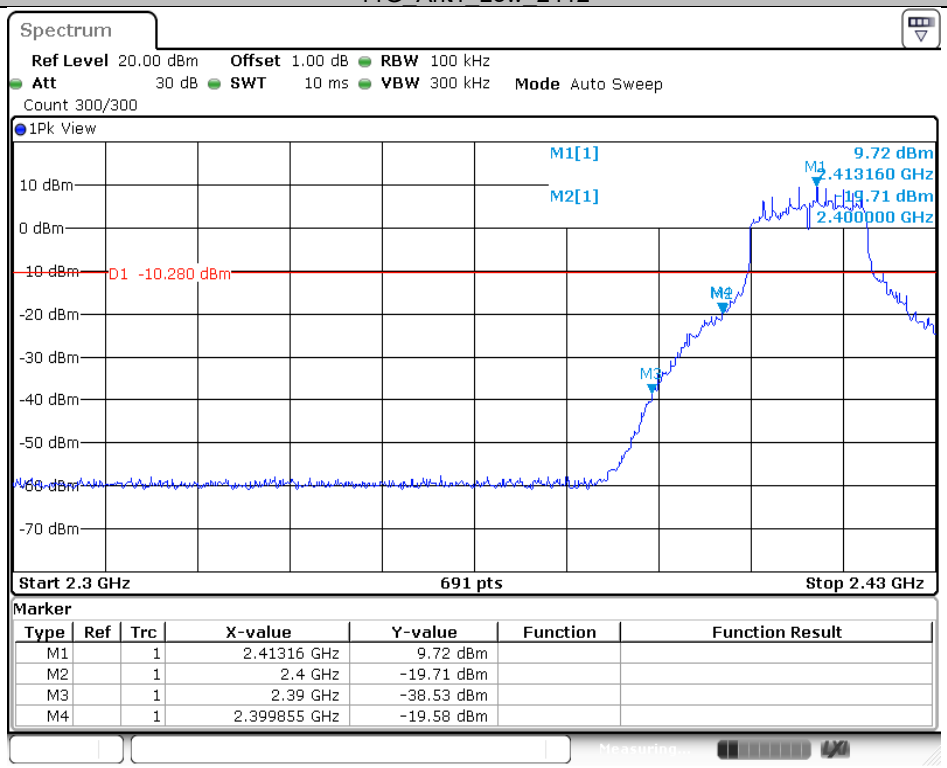
11G_Ant1_Low_2412



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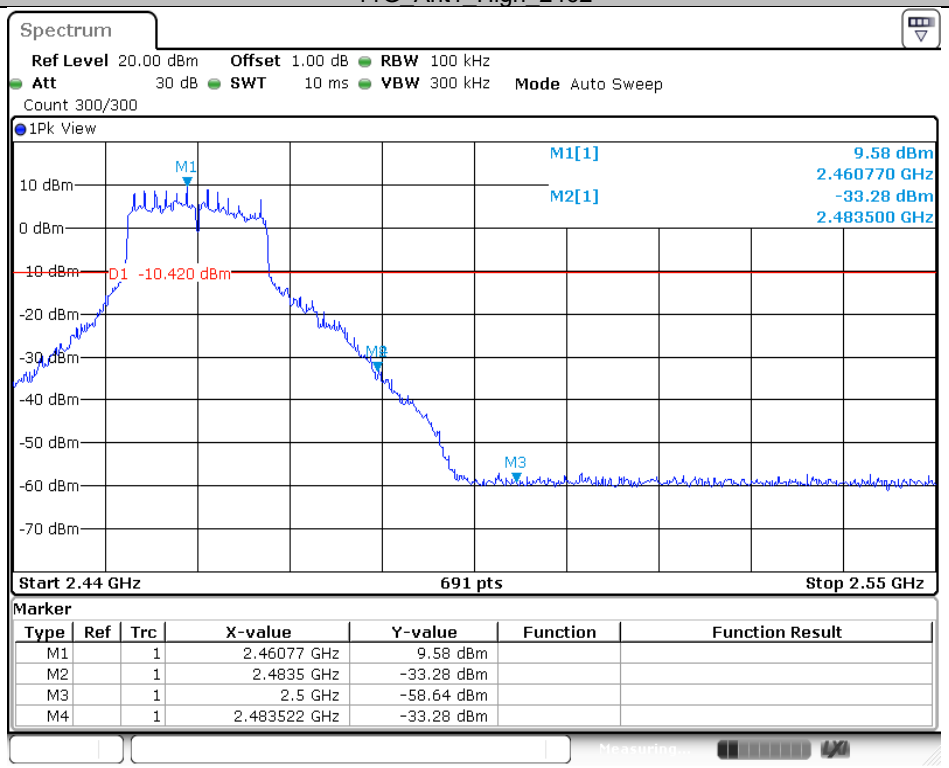

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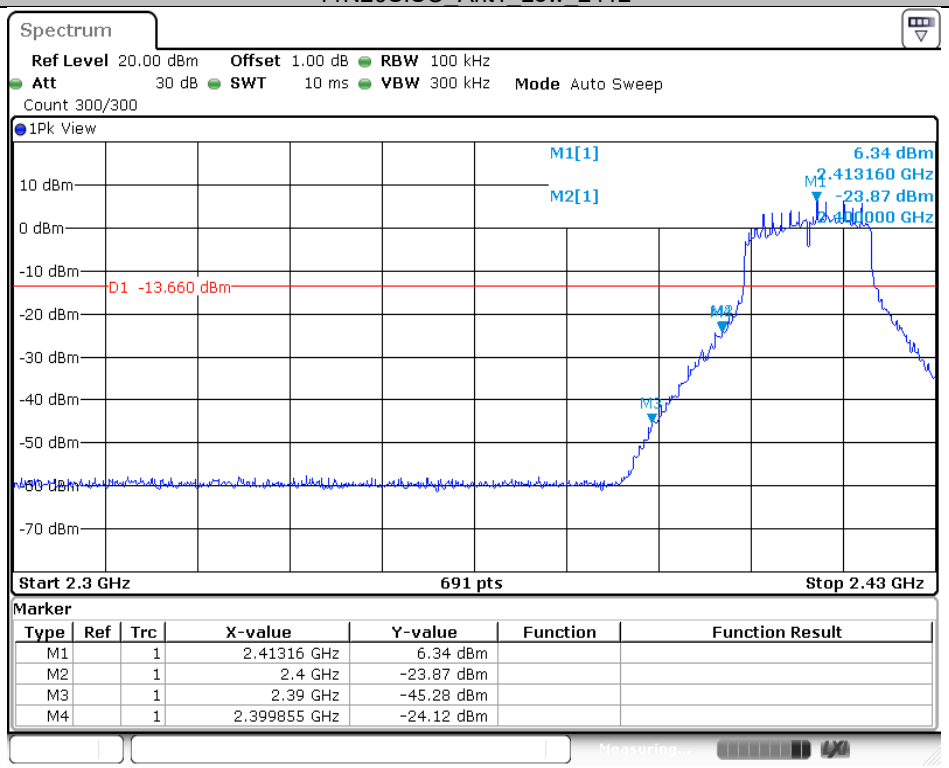

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41316 GHz	6.34 dBm		
M2		1	2.4 GHz	-23.87 dBm		
M3		1	2.39 GHz	-45.28 dBm		
M4		1	2.399855 GHz	-24.12 dBm		

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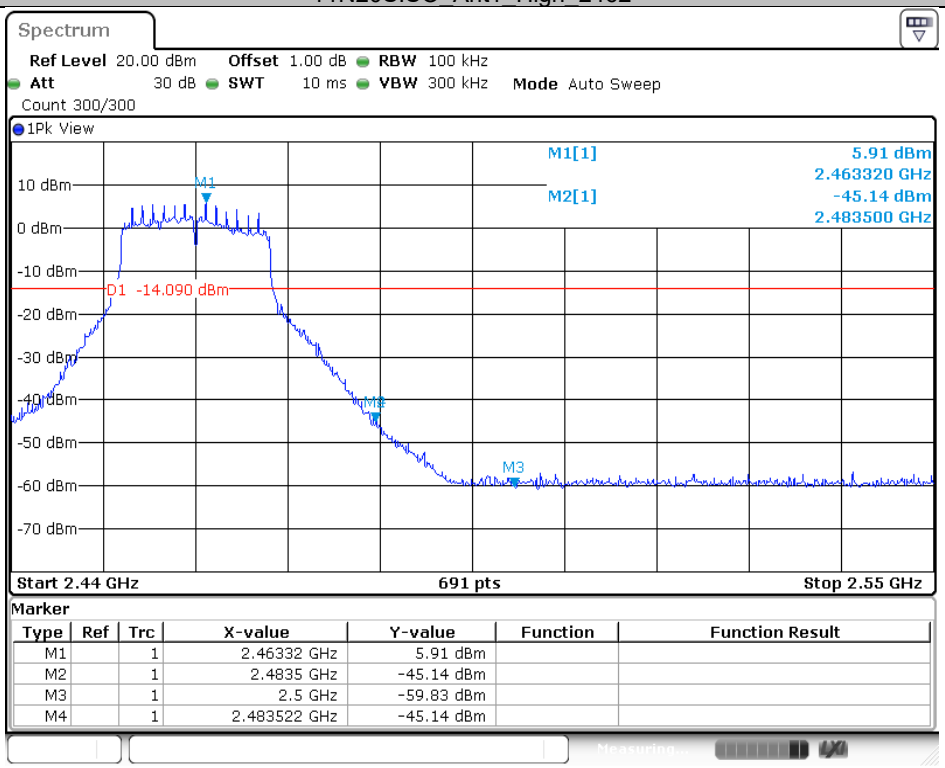

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46332 GHz	5.91 dBm		
M2		1	2.4835 GHz	-45.14 dBm		
M3		1	2.5 GHz	-59.83 dBm		
M4		1	2.483522 GHz	-45.14 dBm		

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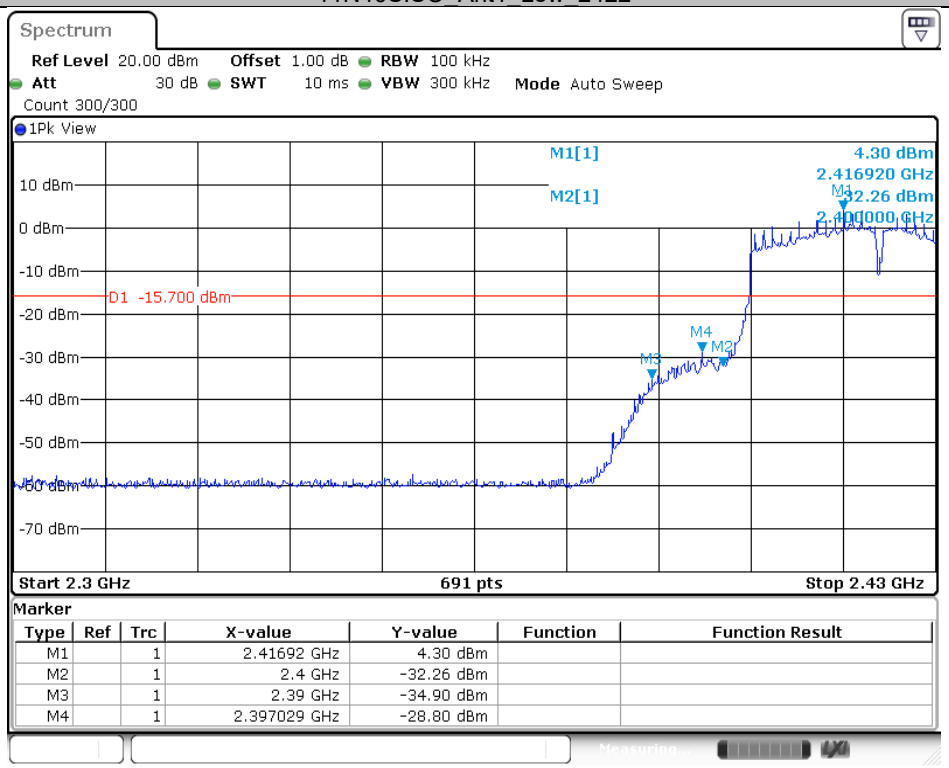

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41692 GHz	4.30 dBm		
M2		1	2.4 GHz	-32.26 dBm		
M3		1	2.39 GHz	-34.90 dBm		
M4		1	2.397029 GHz	-28.80 dBm		

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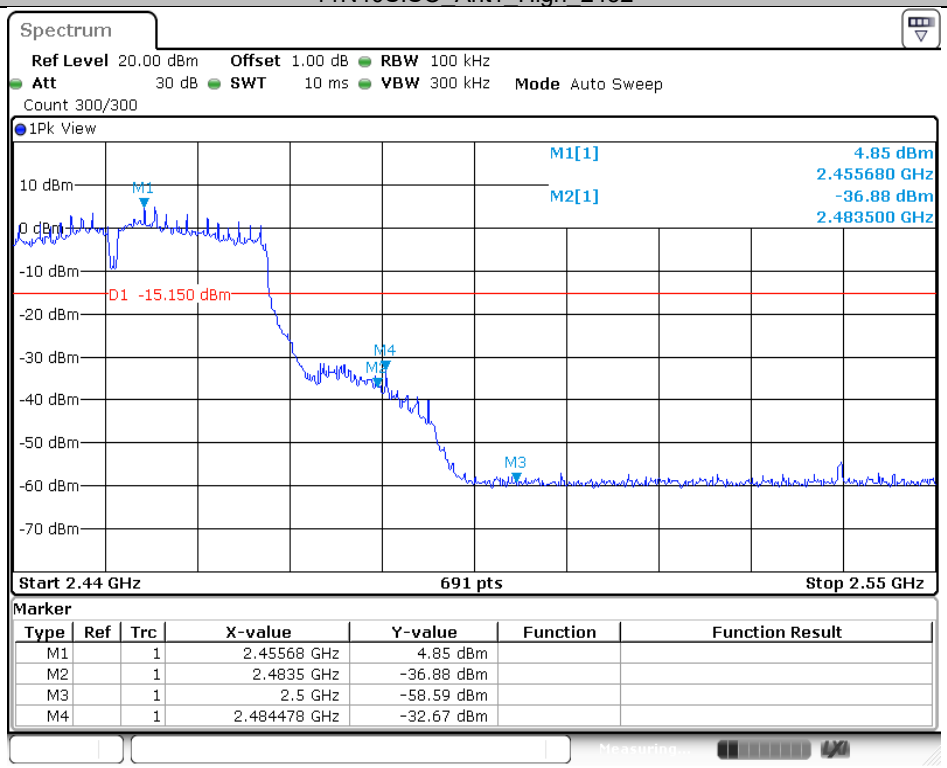
11N40SISO_Ant1_High_2452



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45568 GHz	4.85 dBm		
M2		1	2.4835 GHz	-36.88 dBm		
M3		1	2.5 GHz	-58.59 dBm		
M4		1	2.484478 GHz	-32.67 dBm		

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Conducted Spurious Emission

Test Result

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

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

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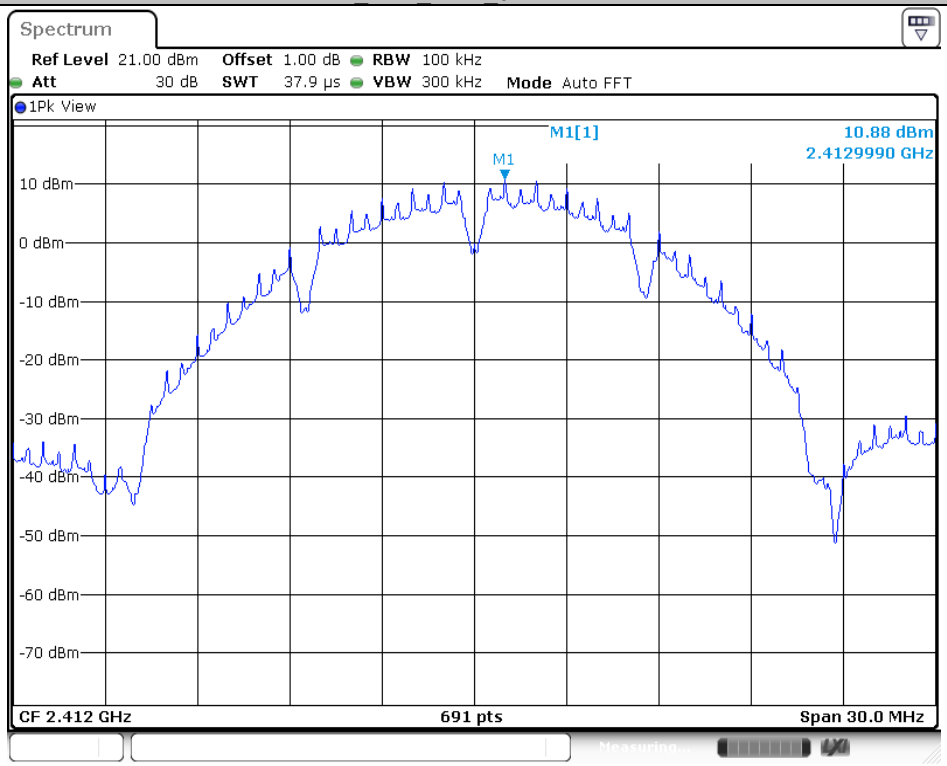
Test Graphs

11B_Ant1_2412_0~Reference



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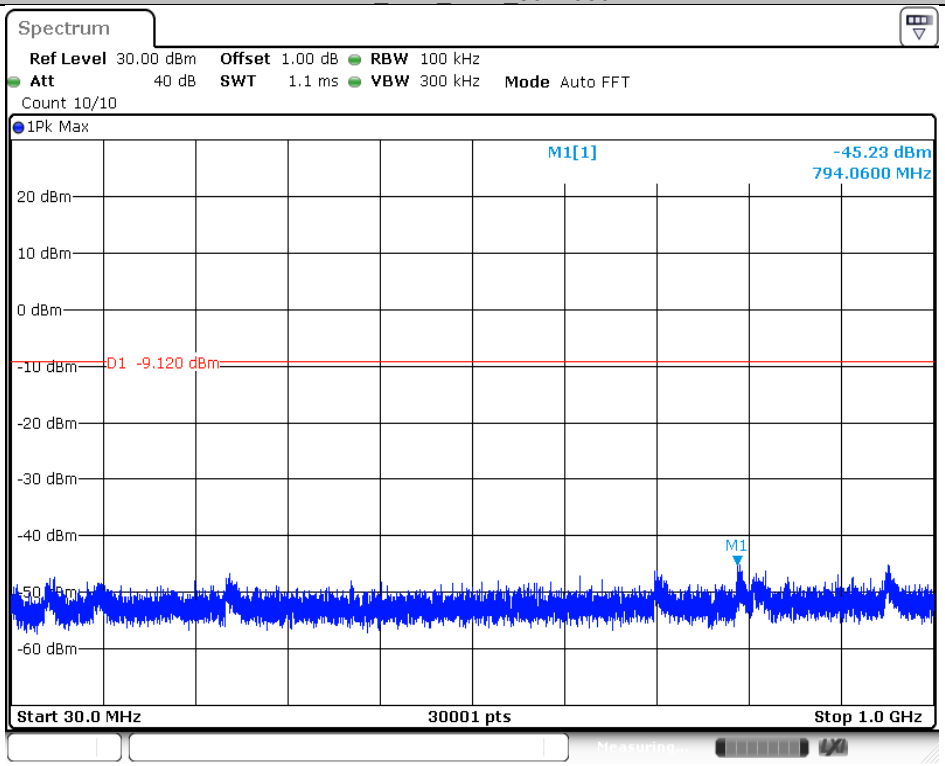
11B_Ant1_2412_30~1000



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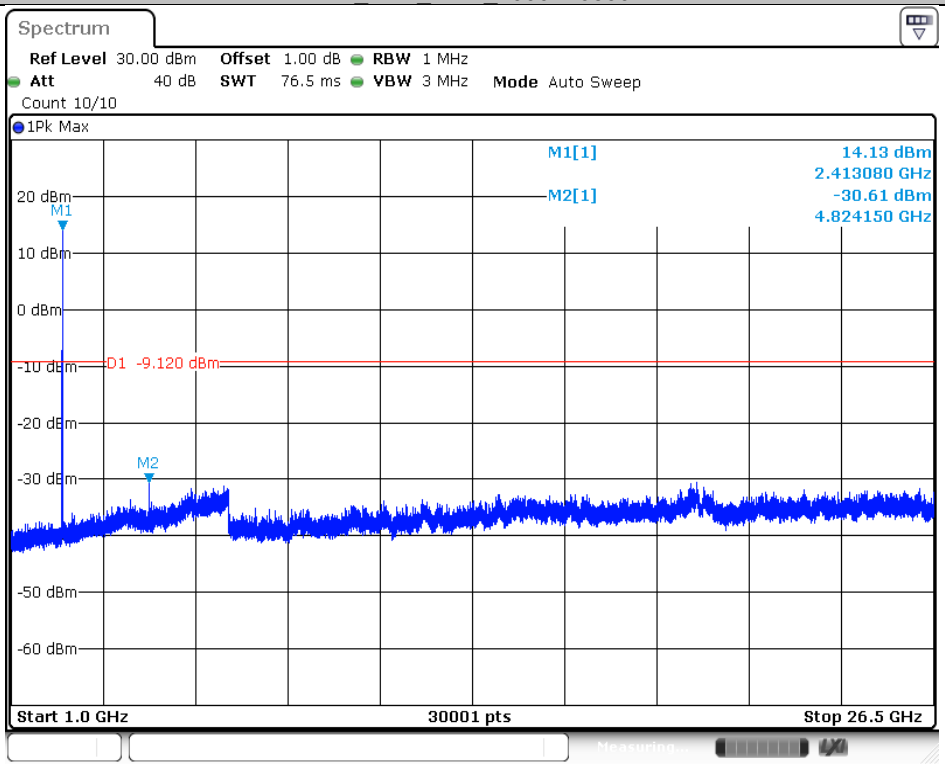
11B_Ant1_2412_1000~26500



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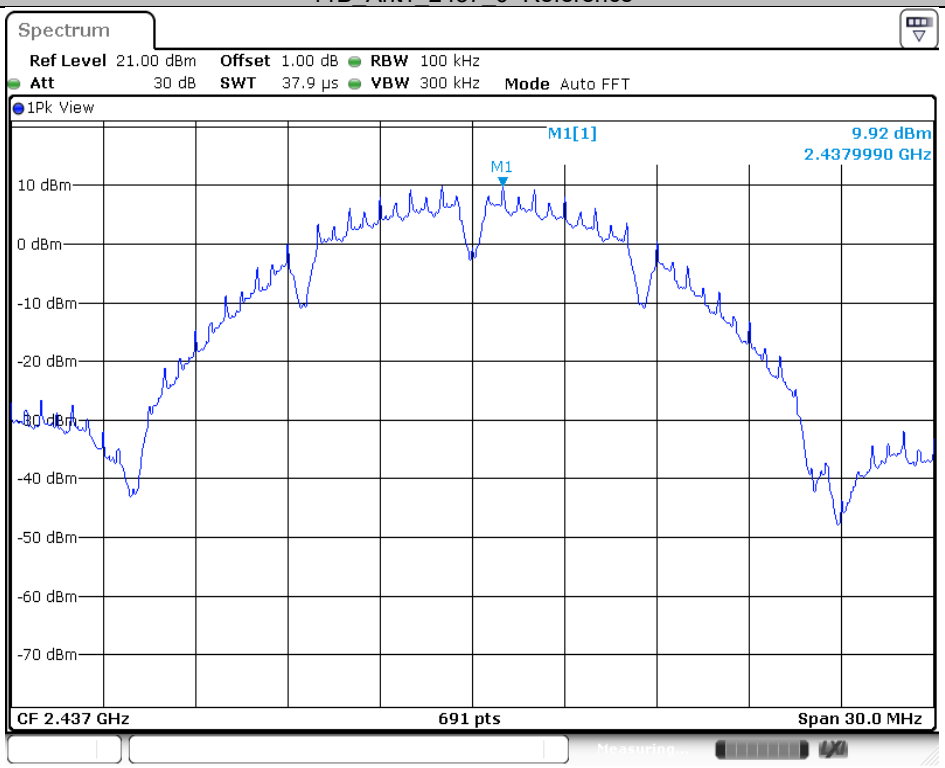
11B_Ant1_2437_0~Reference



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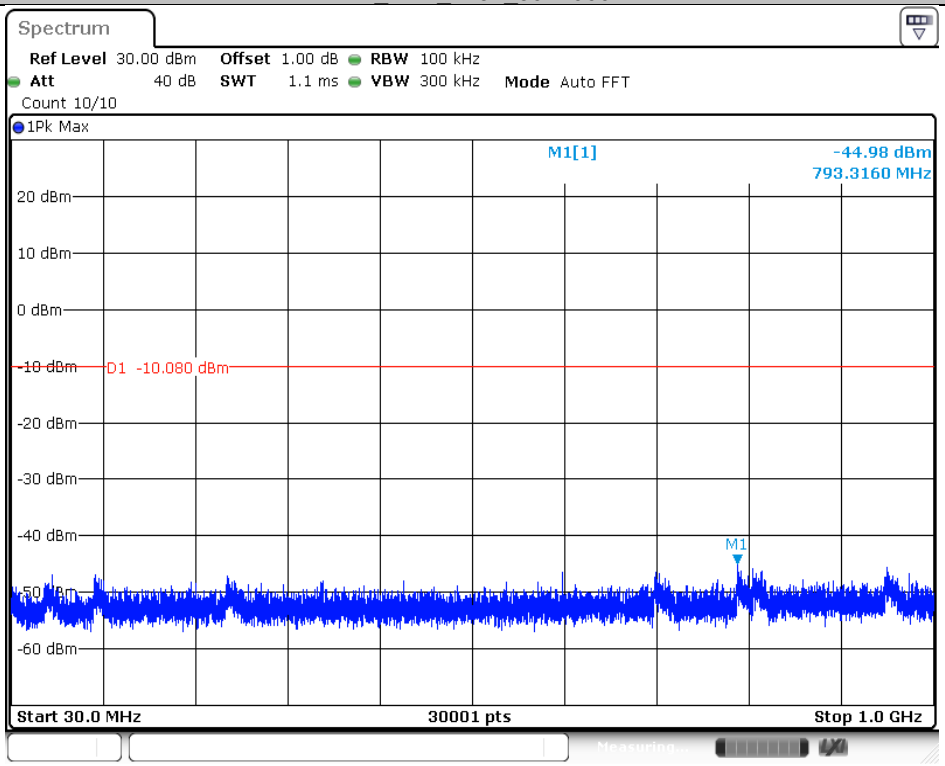
11B_Ant1_2437_30~1000



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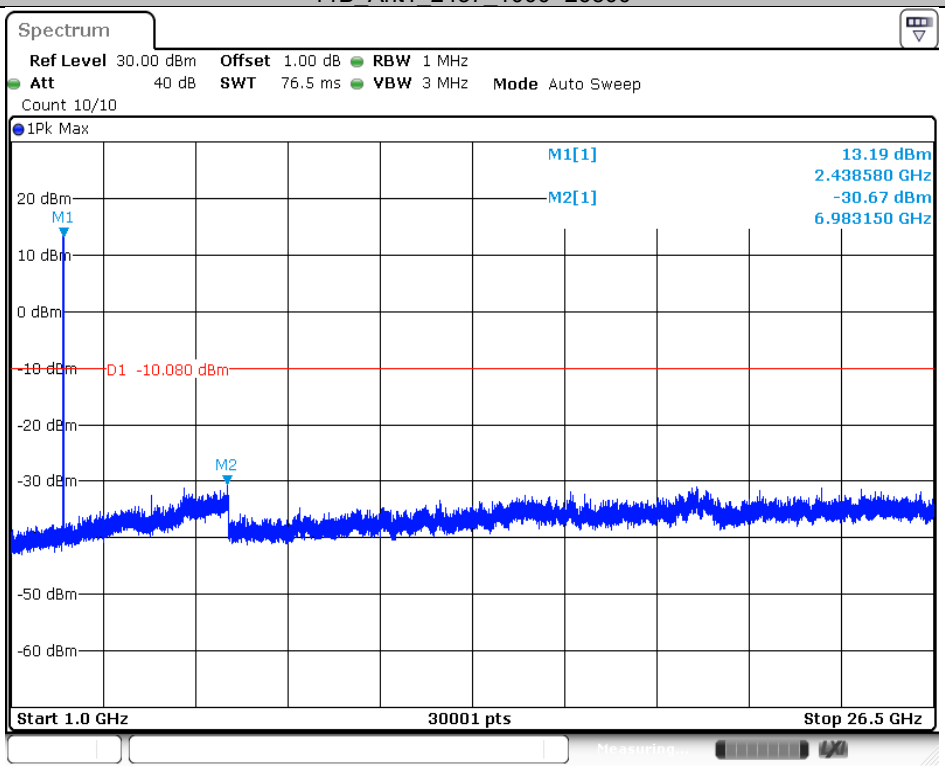
11B_Ant1_2437_1000~26500



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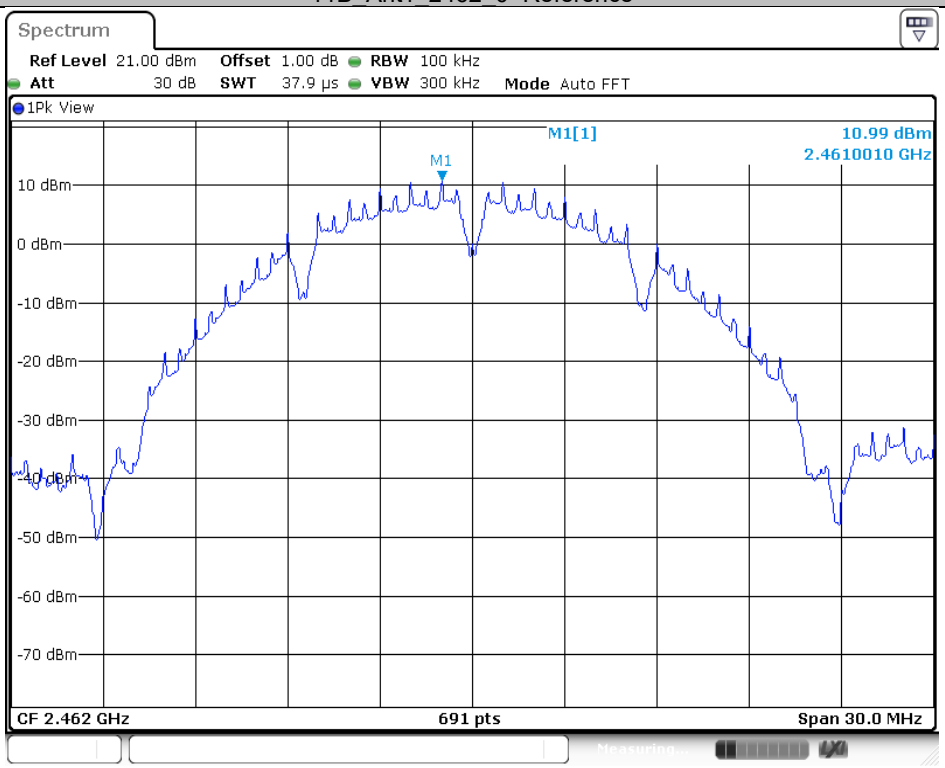
11B_Ant1_2462_0~Reference



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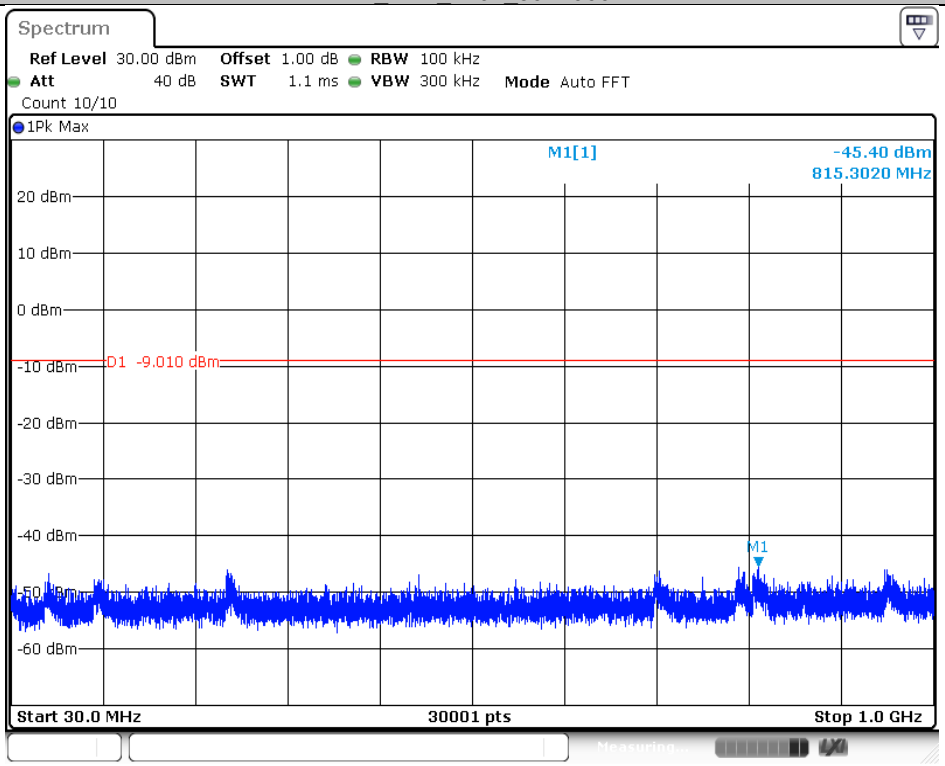
11B_Ant1_2462_30~1000



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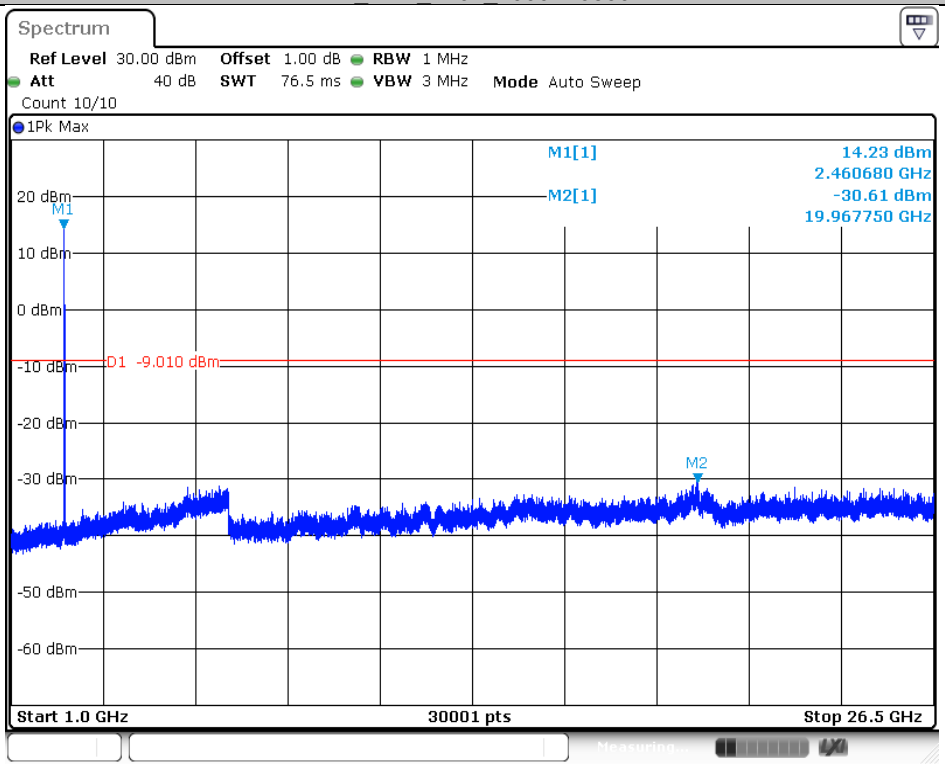
11B_Ant1_2462_1000~26500



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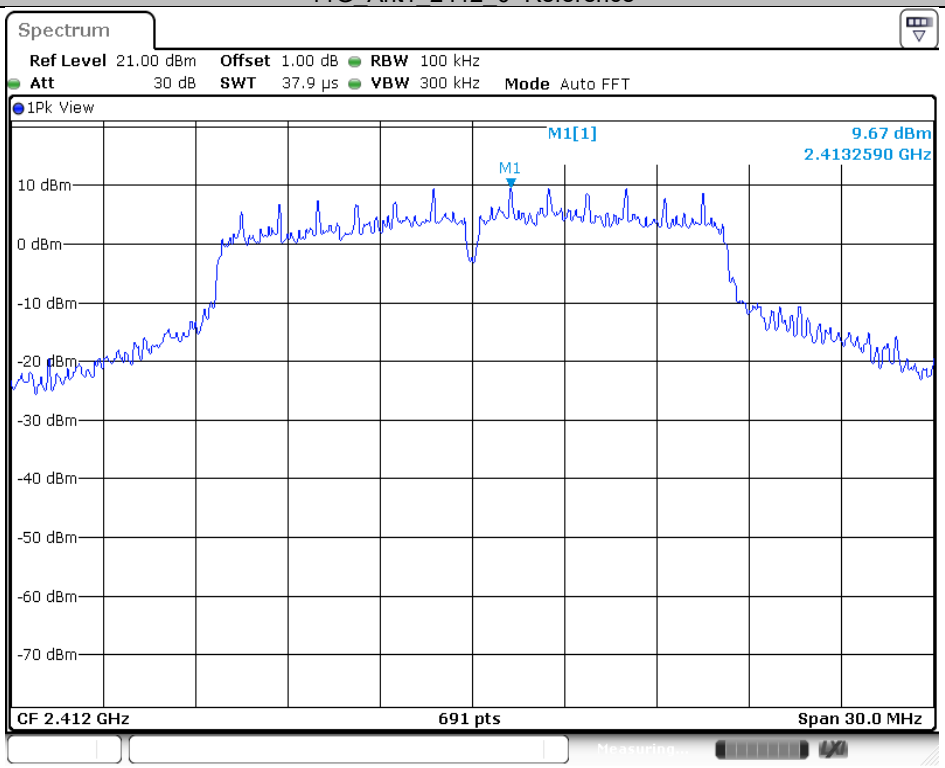

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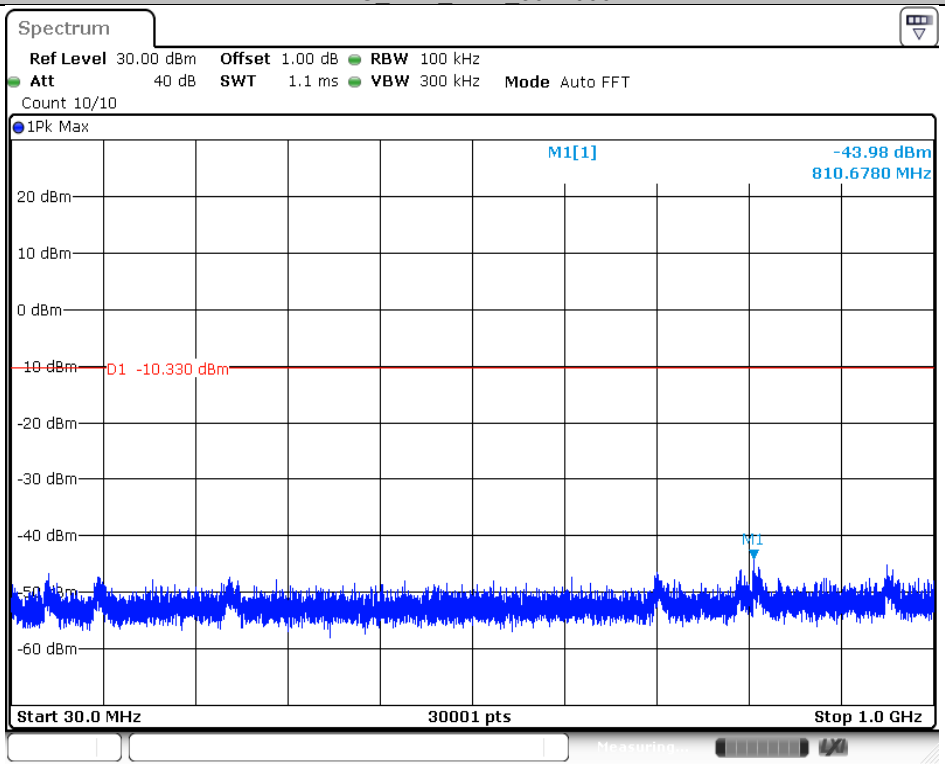

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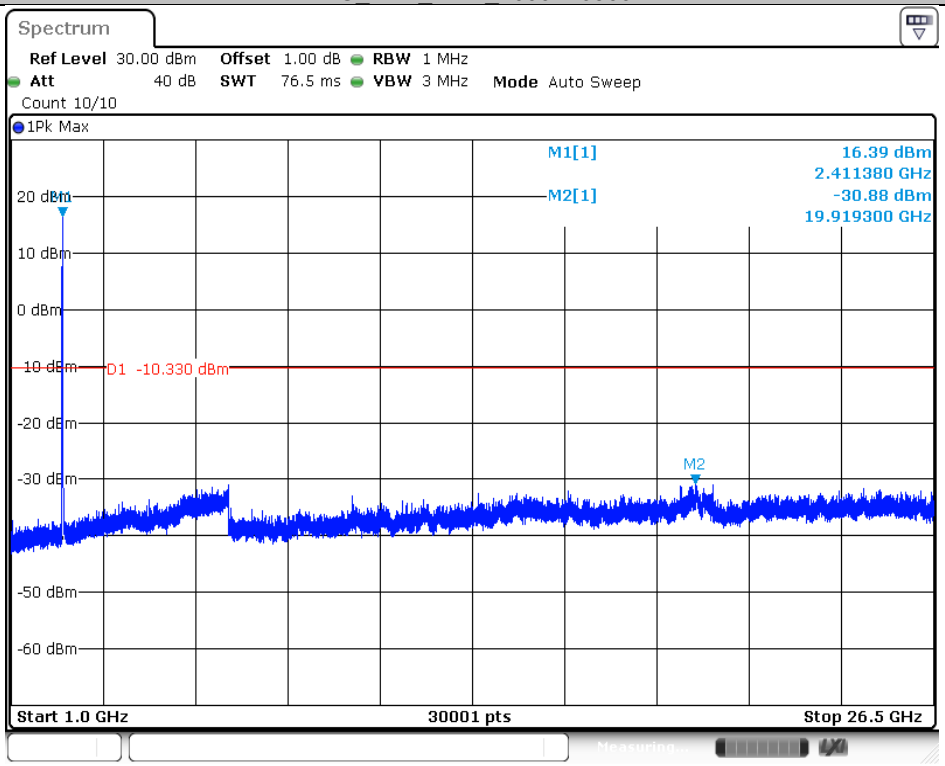

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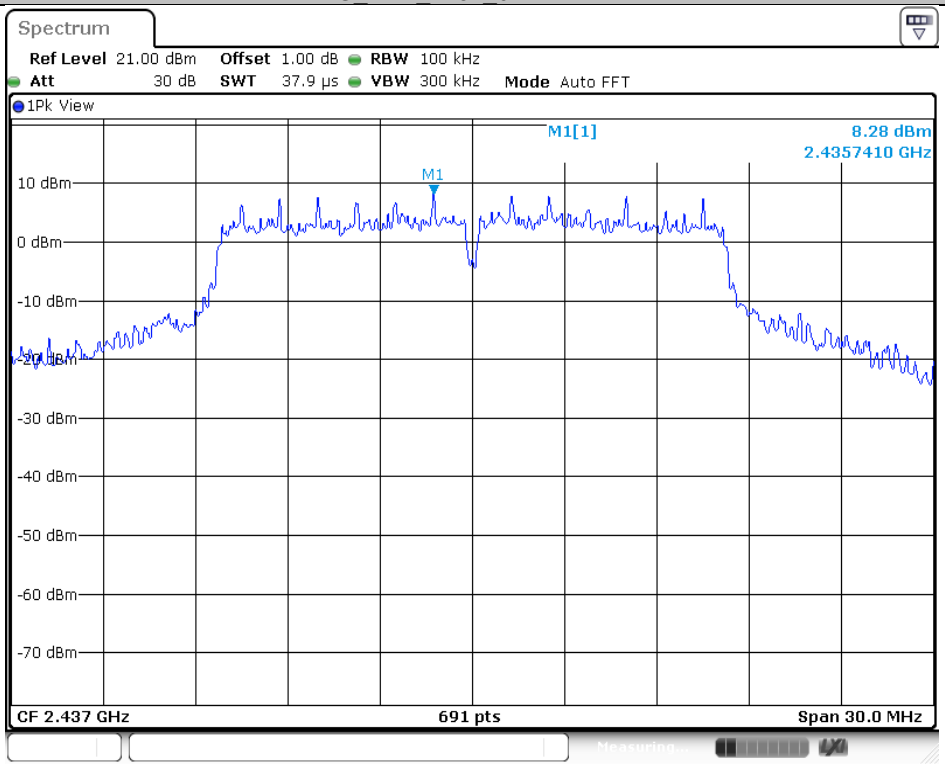

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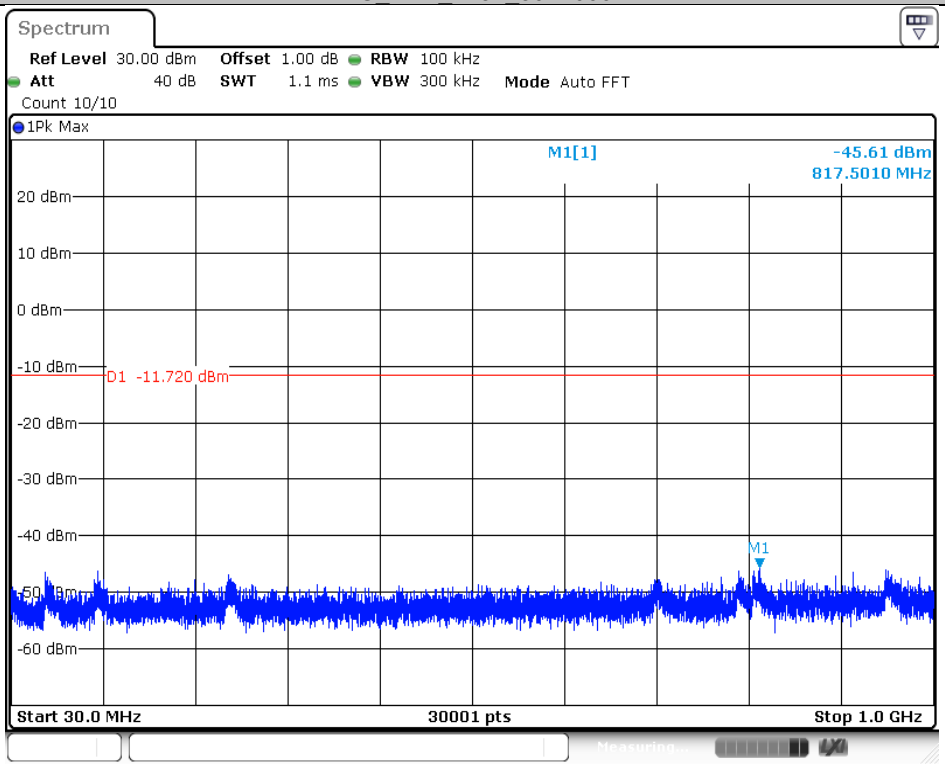

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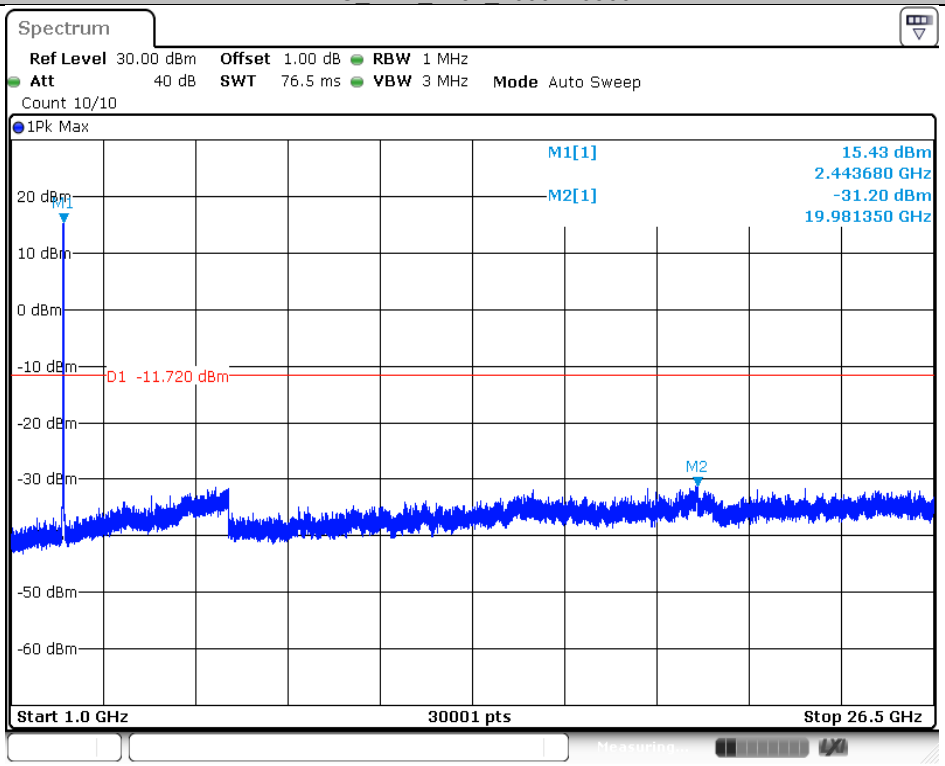

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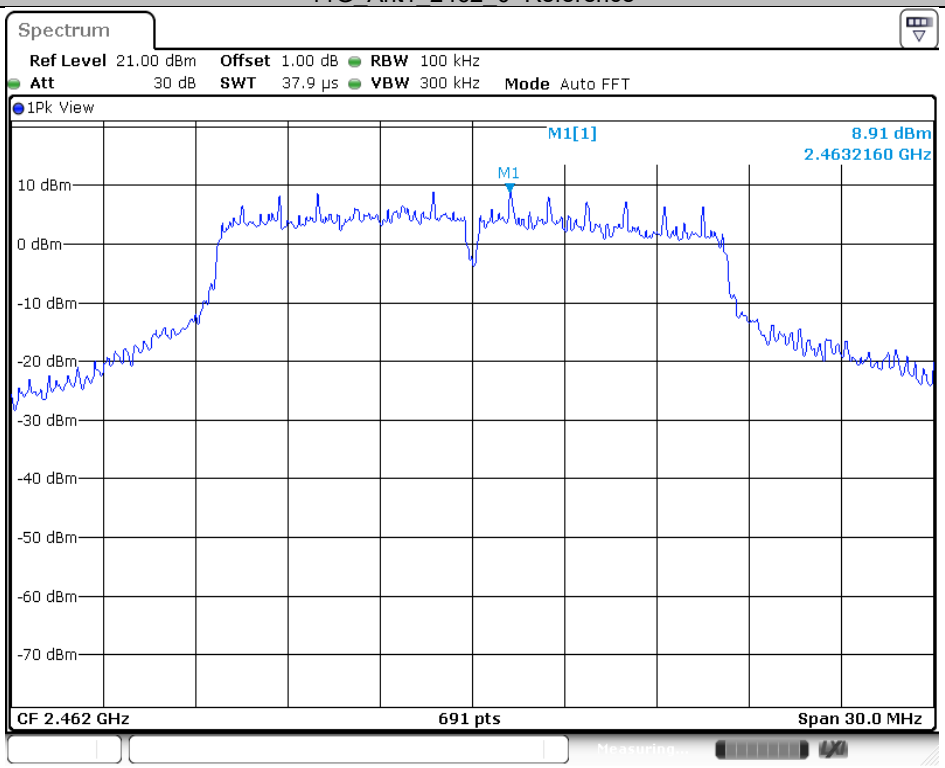

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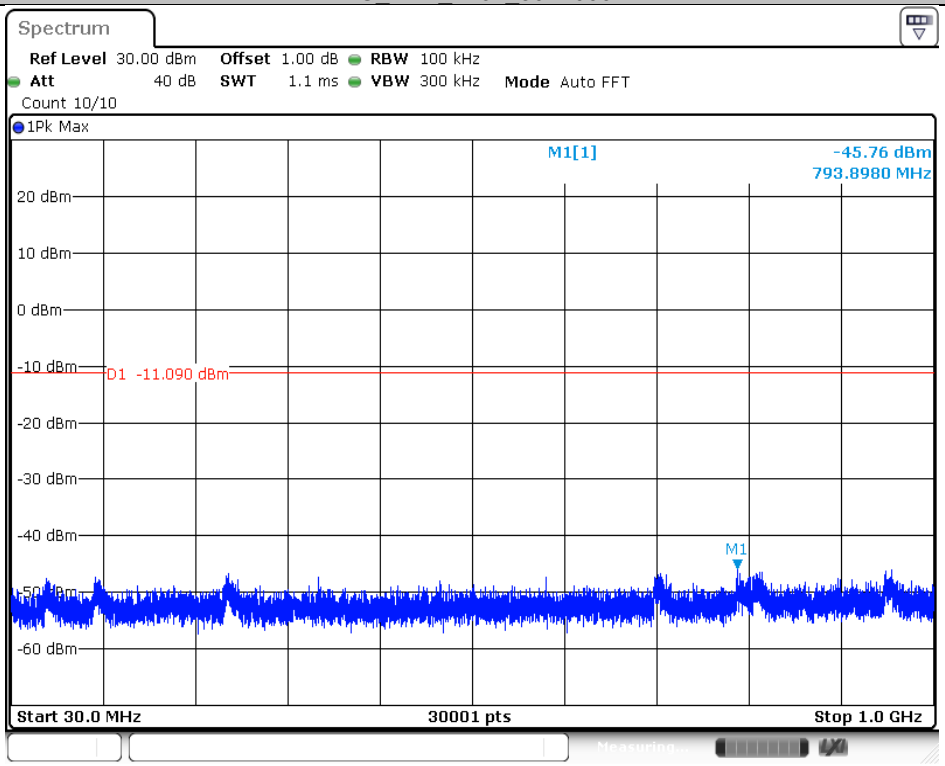

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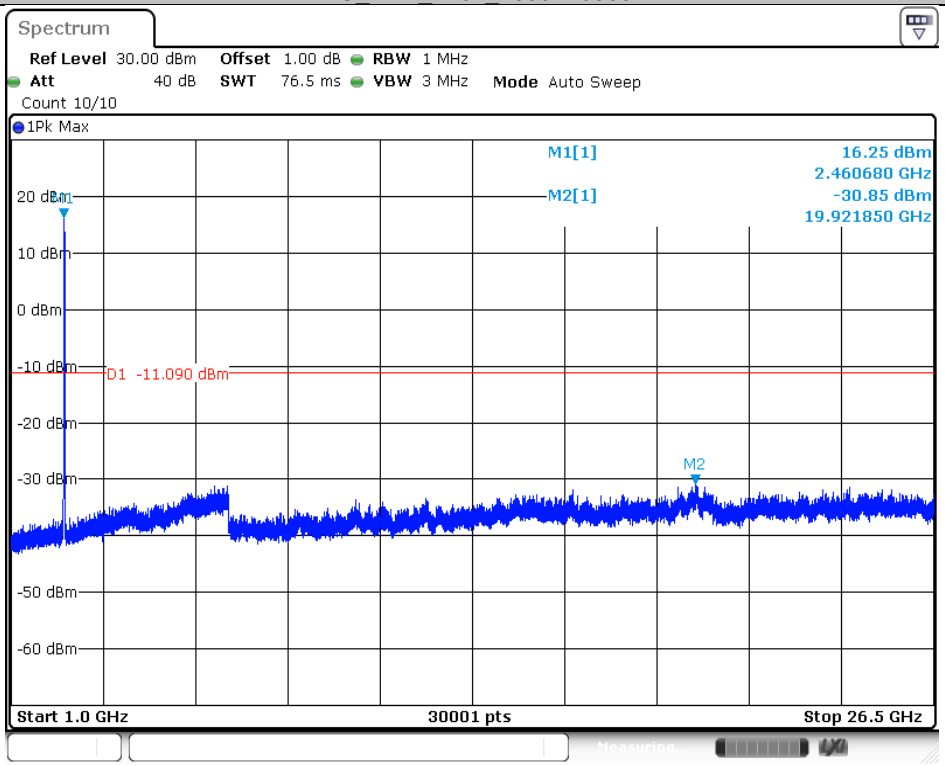

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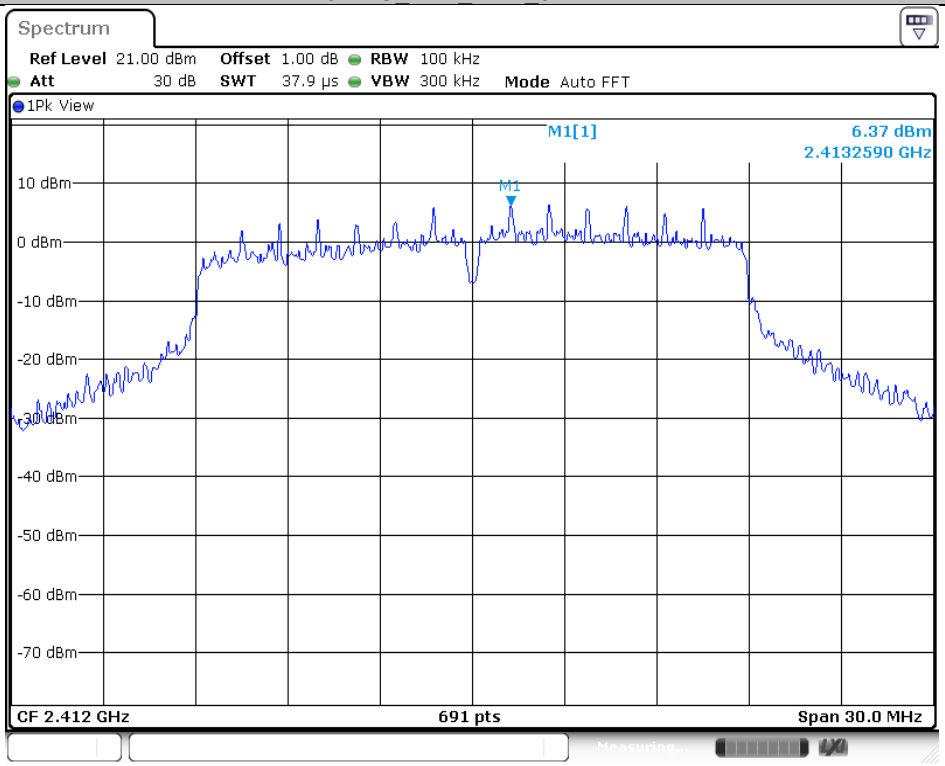

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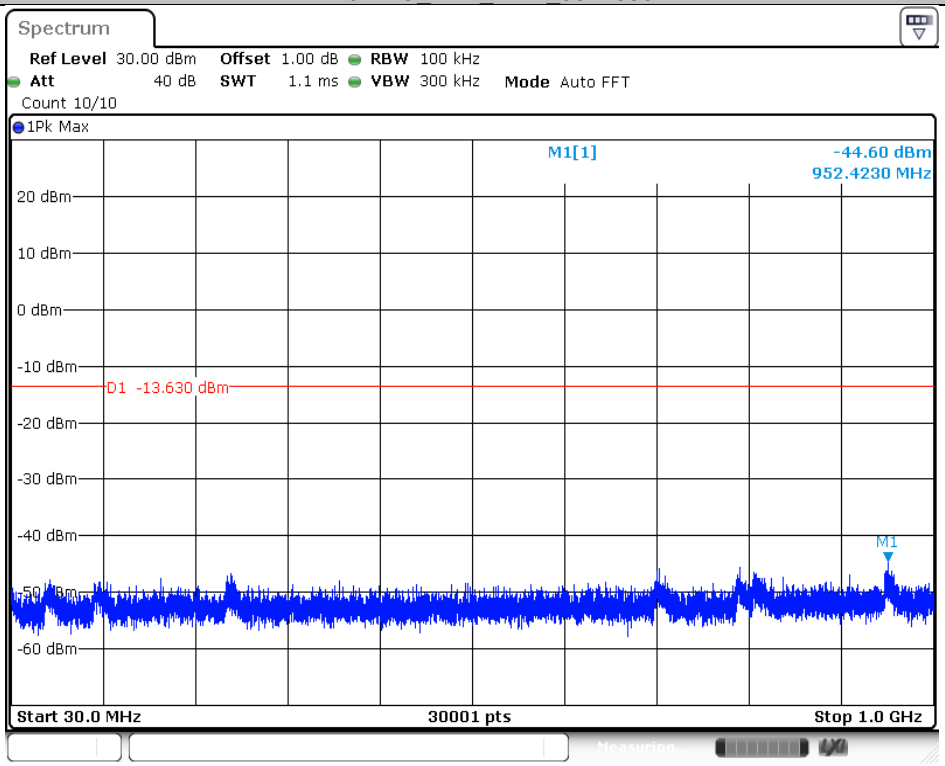

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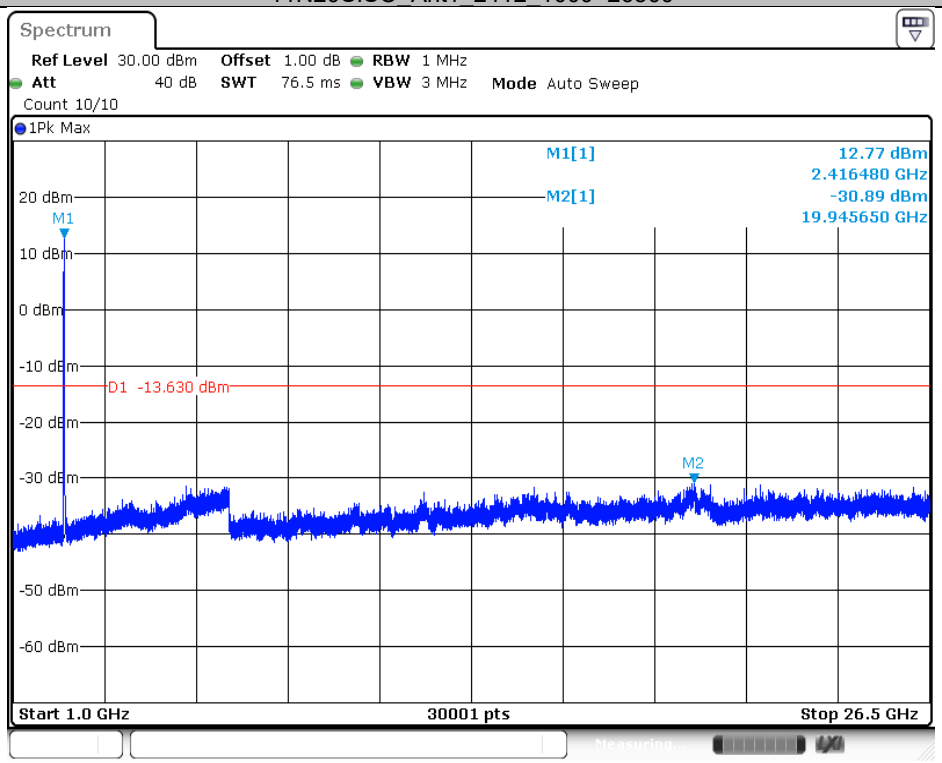

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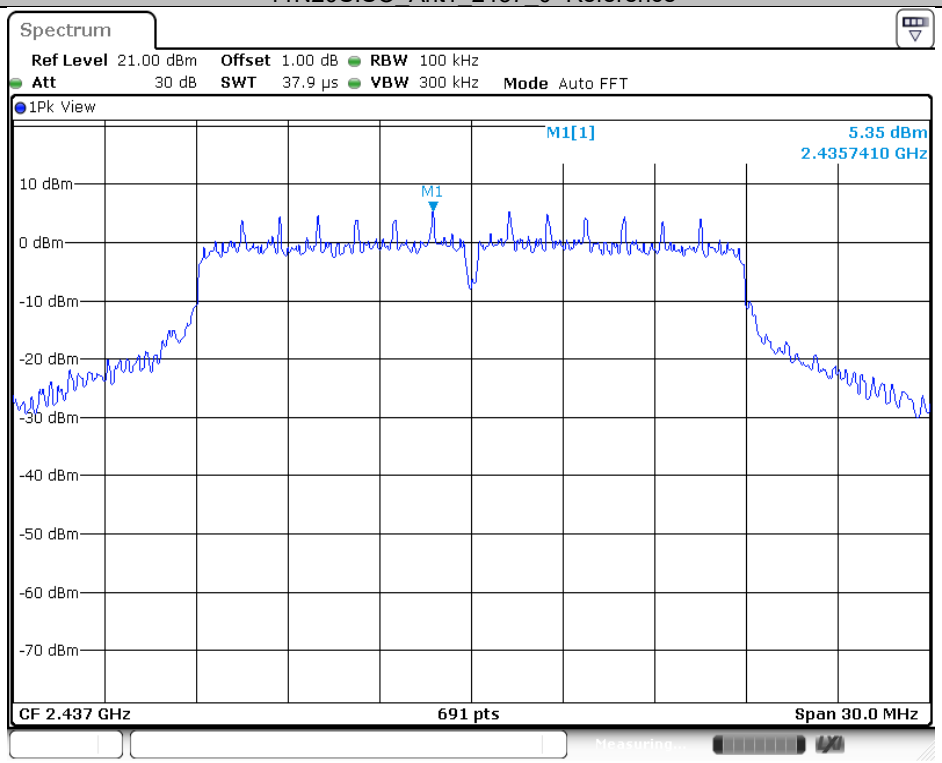

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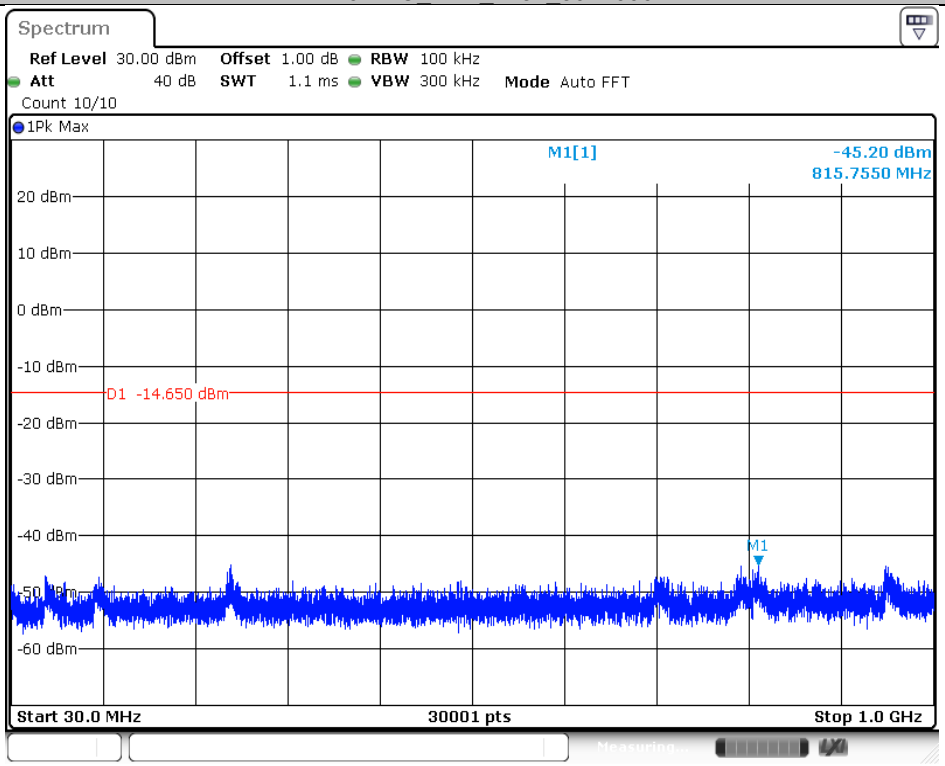
11N20SISO_Ant1_2437_30~1000



Date: 24.DEC.2020 10:39:51

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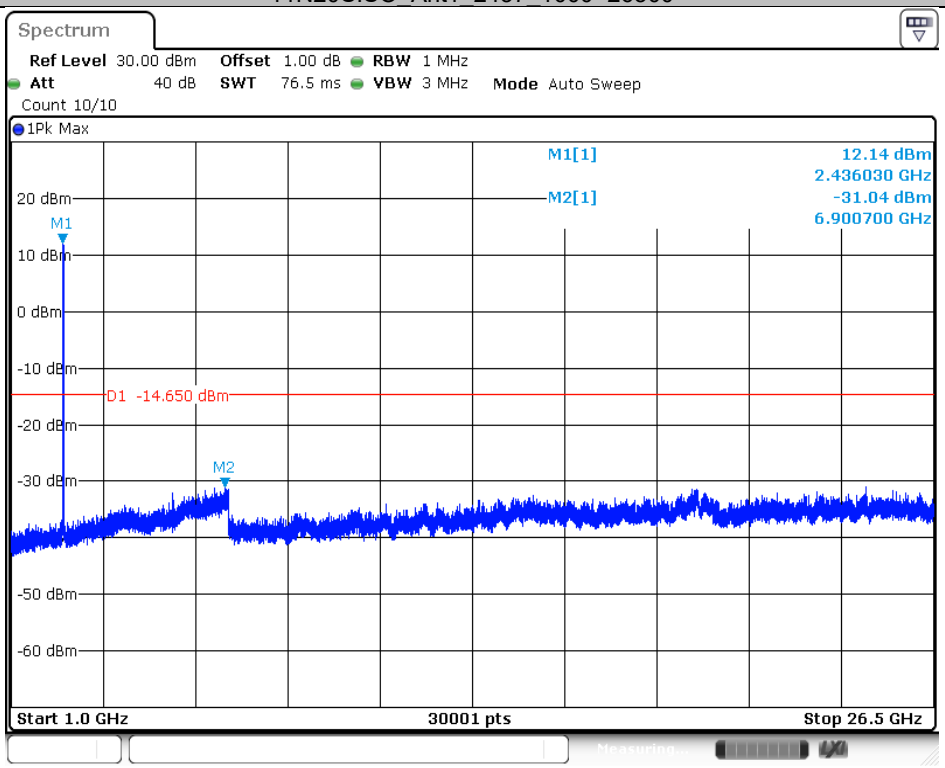

Date:24.DEC.2020 10:40:16

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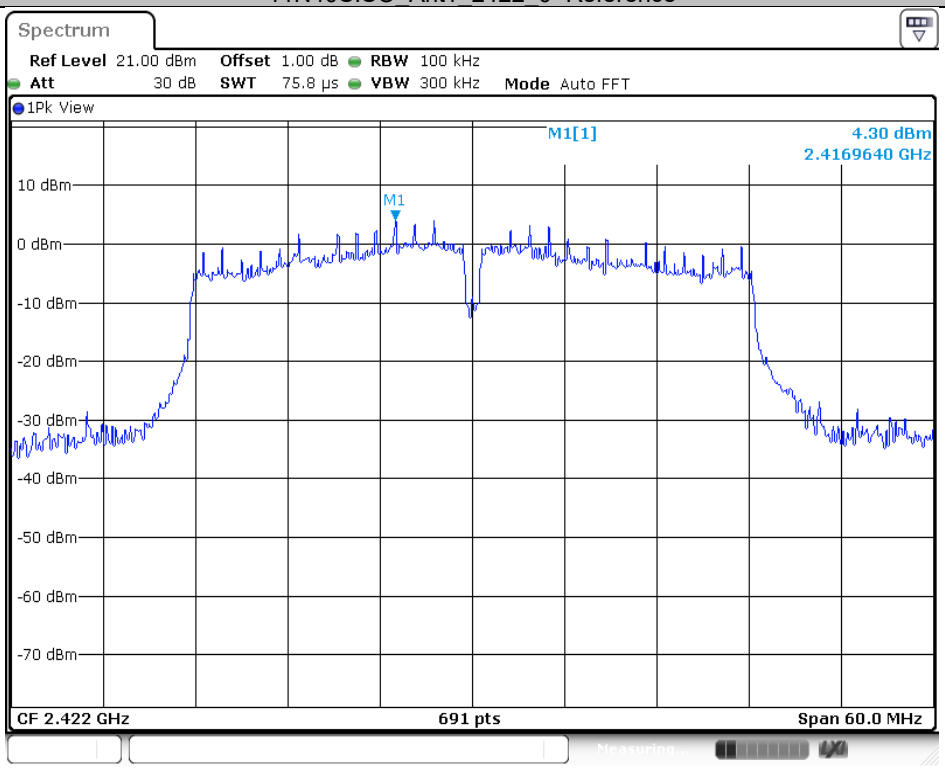
11N40SISO_Ant1_2422_0~Reference



Date: 24.DEC.2020 10:45:21

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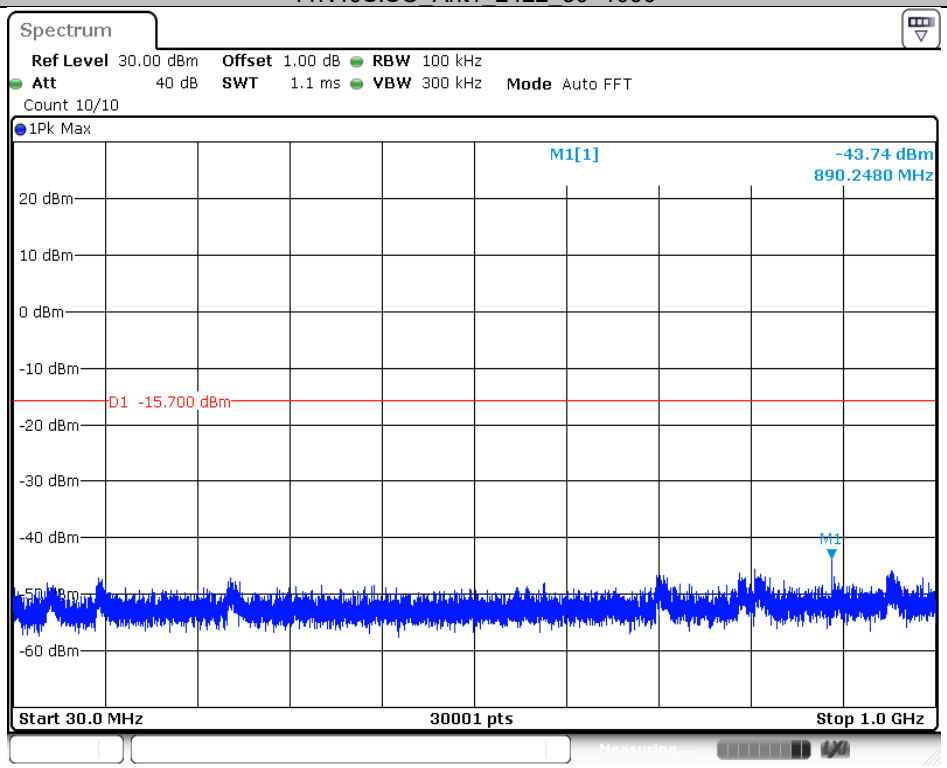

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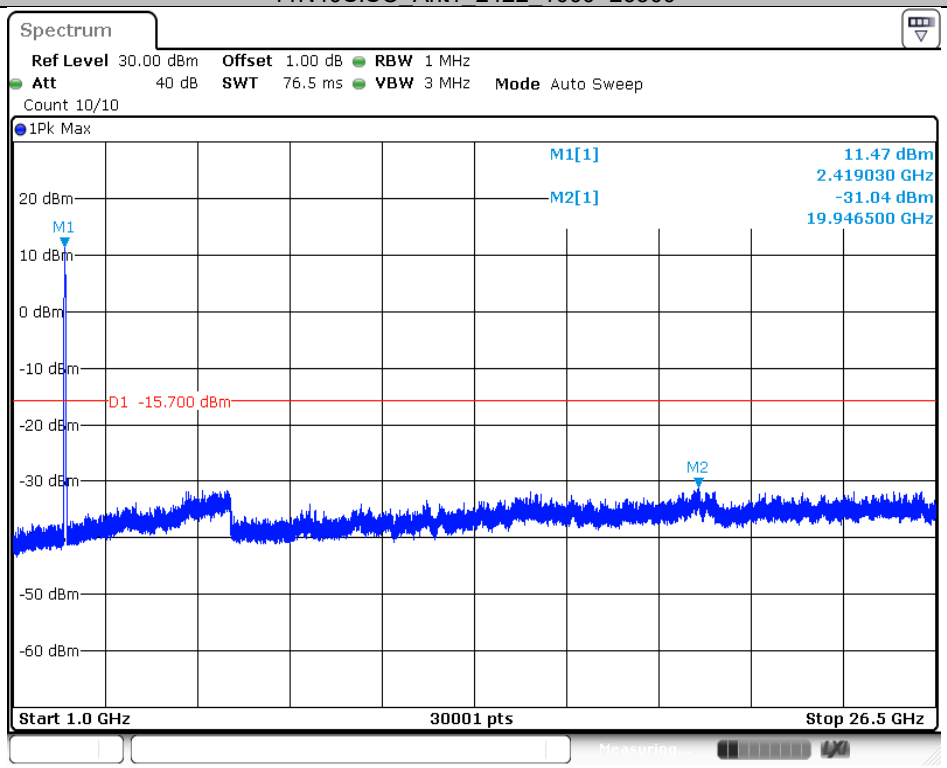

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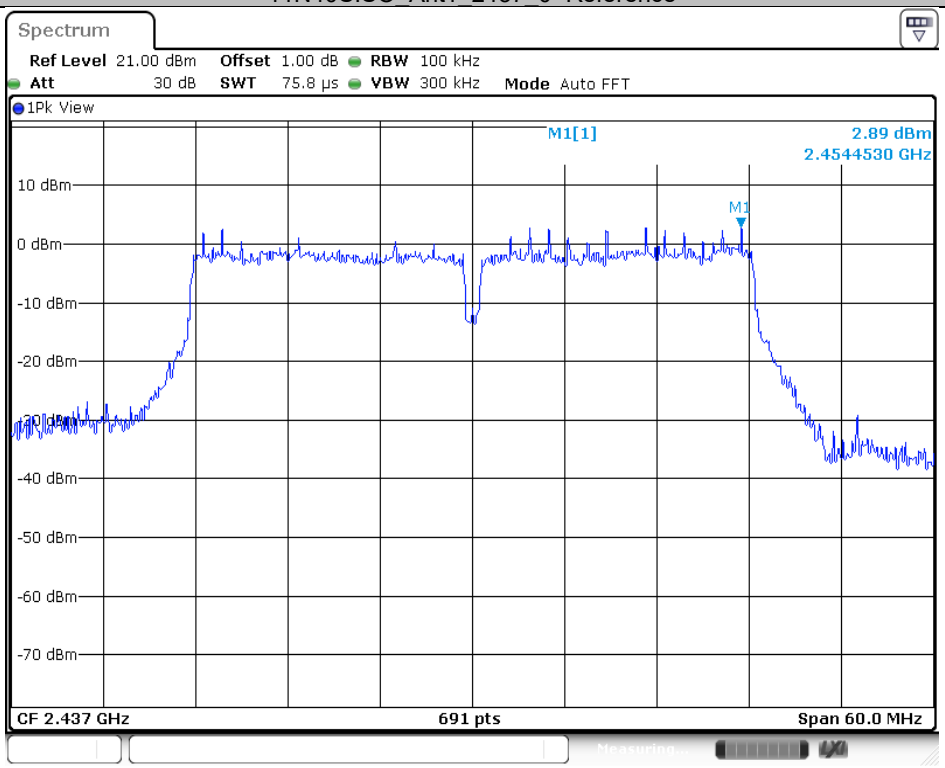
11N40SISO_Ant1_2437_0~Reference



Date: 24.DEC.2020 10:47:13

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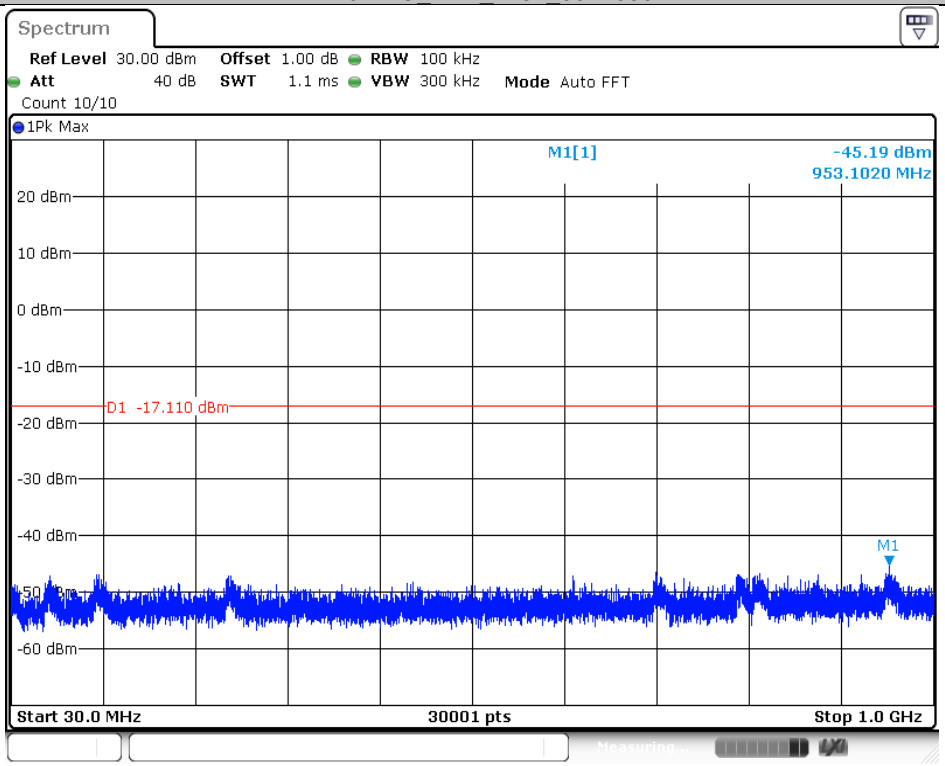

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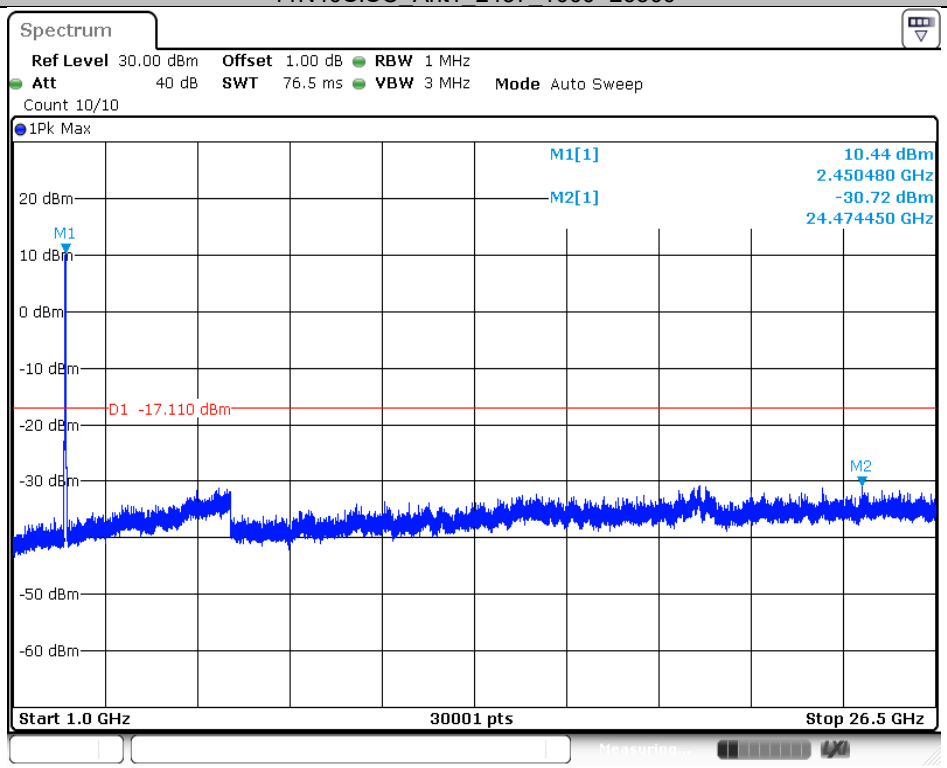

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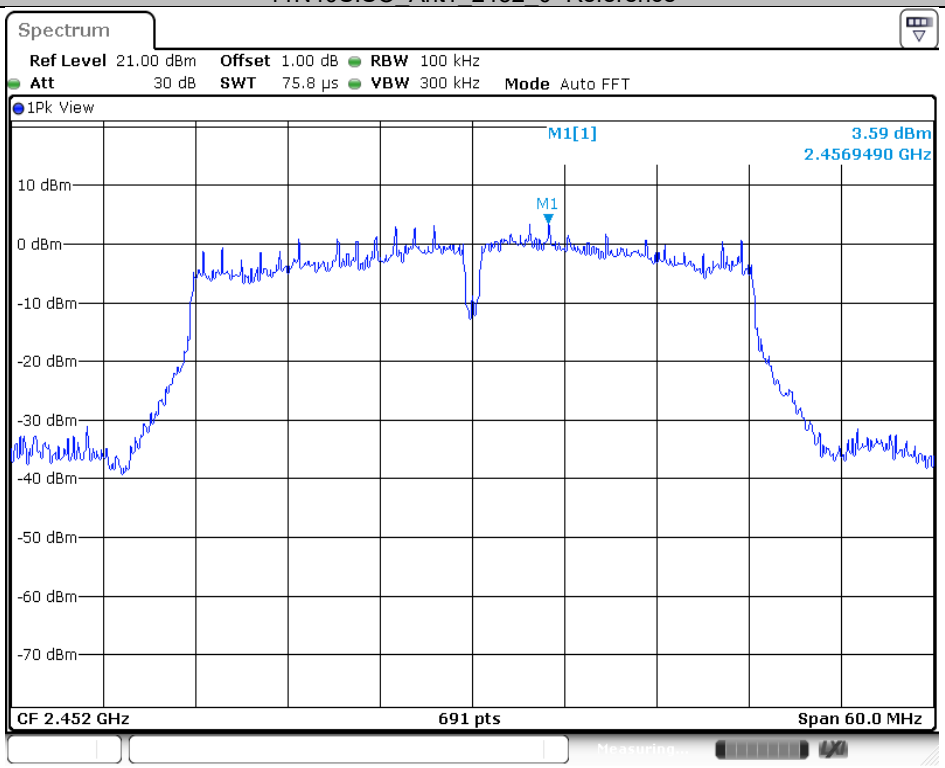

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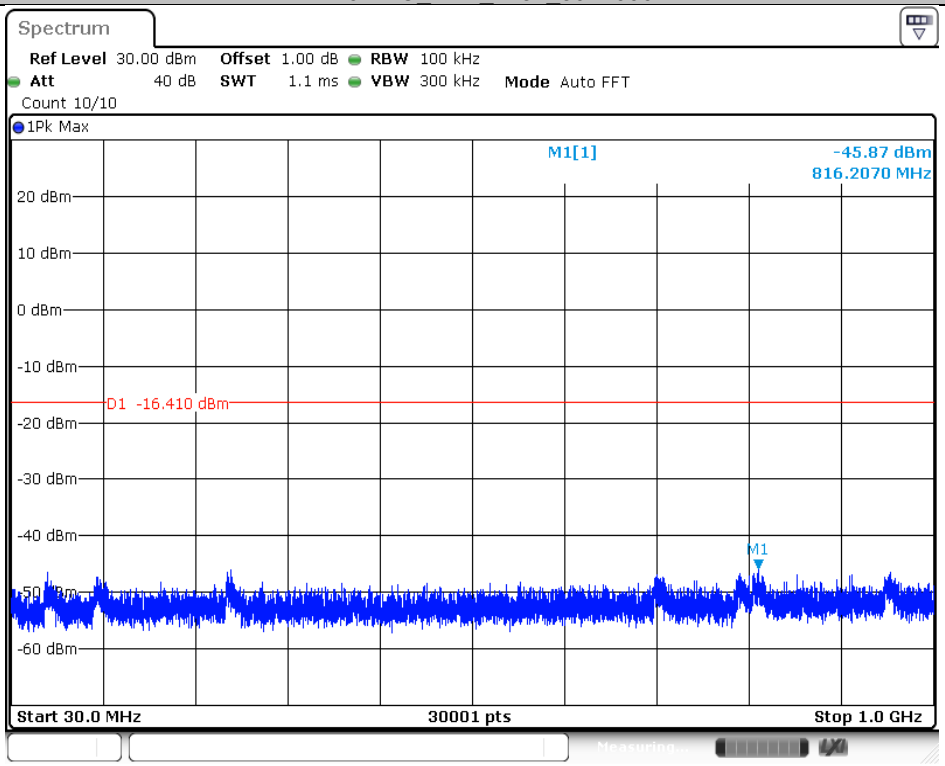

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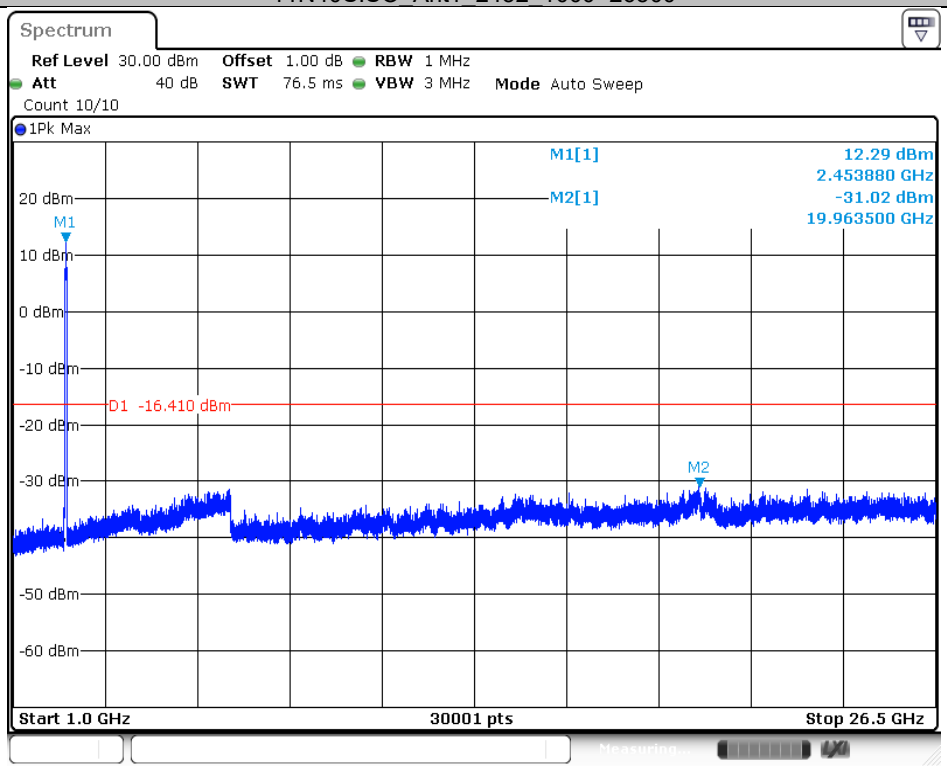

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Duty Cycle

Test Result

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

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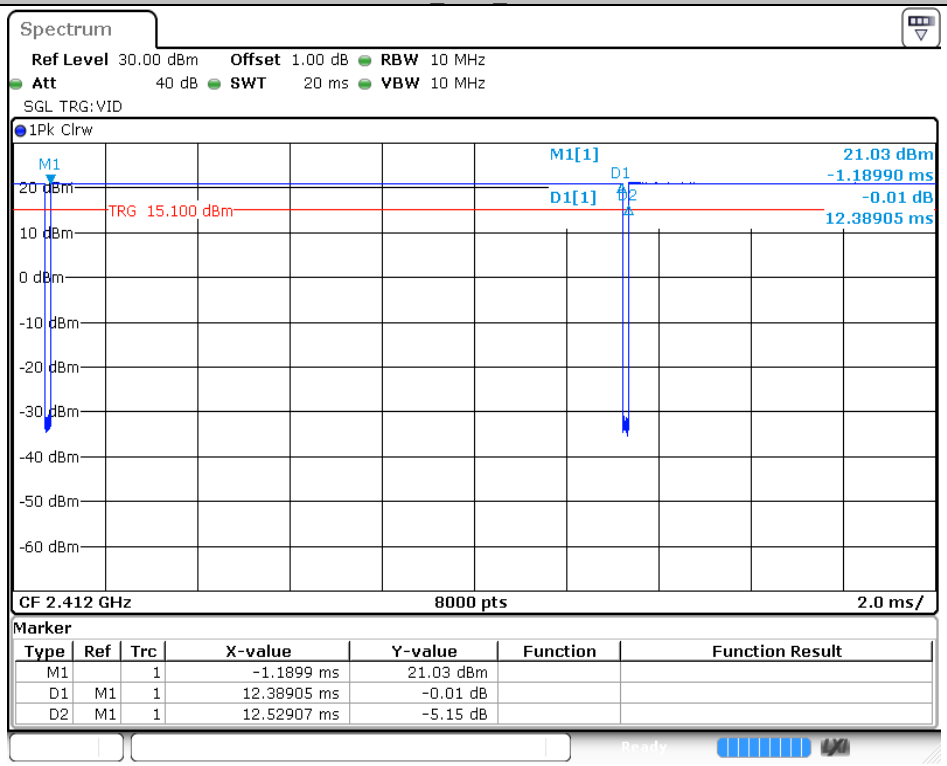
Test Graphs

11B_Ant1_2412



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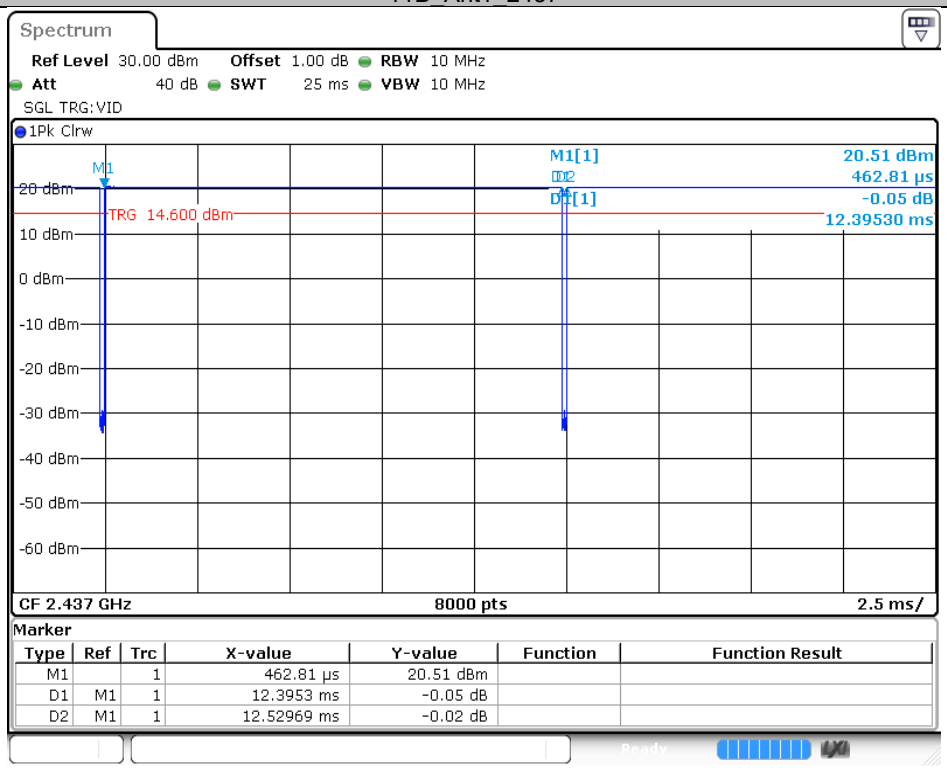

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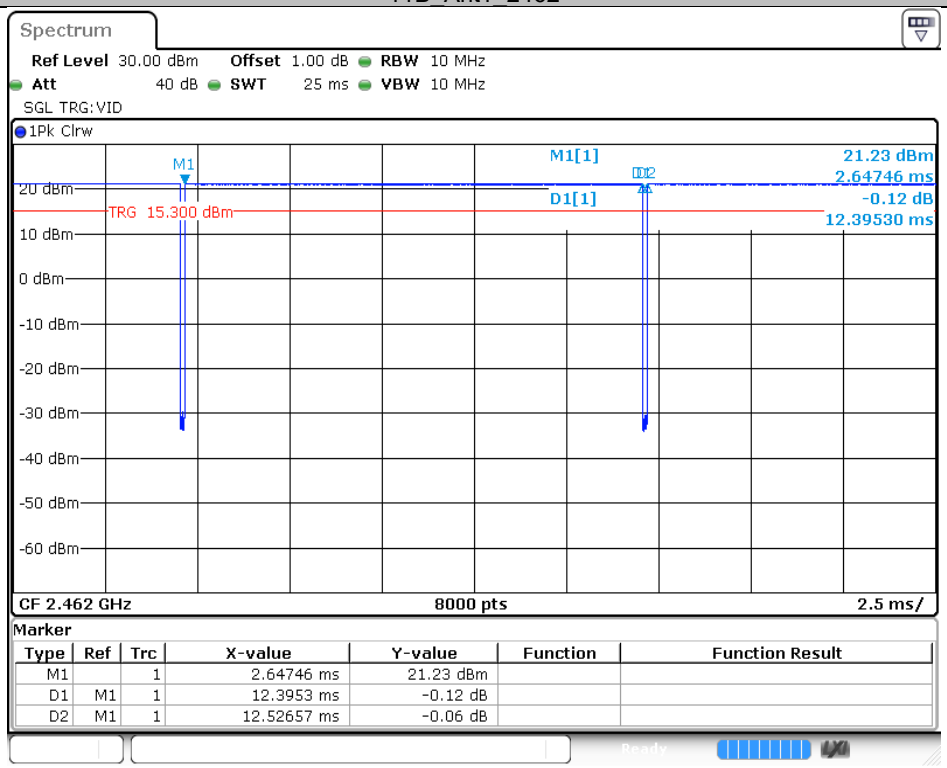
11B_Ant1_2462



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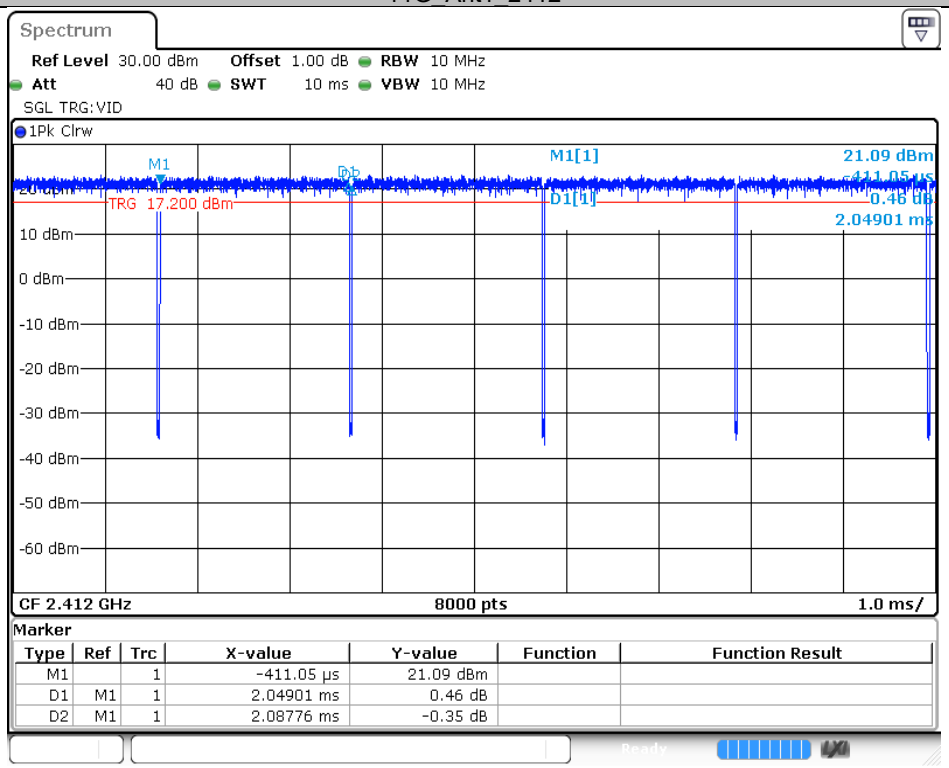

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
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D1	M1	1	2.04901 ms	0.46 dB		
D2	M1	1	2.08776 ms	-0.35 dB		

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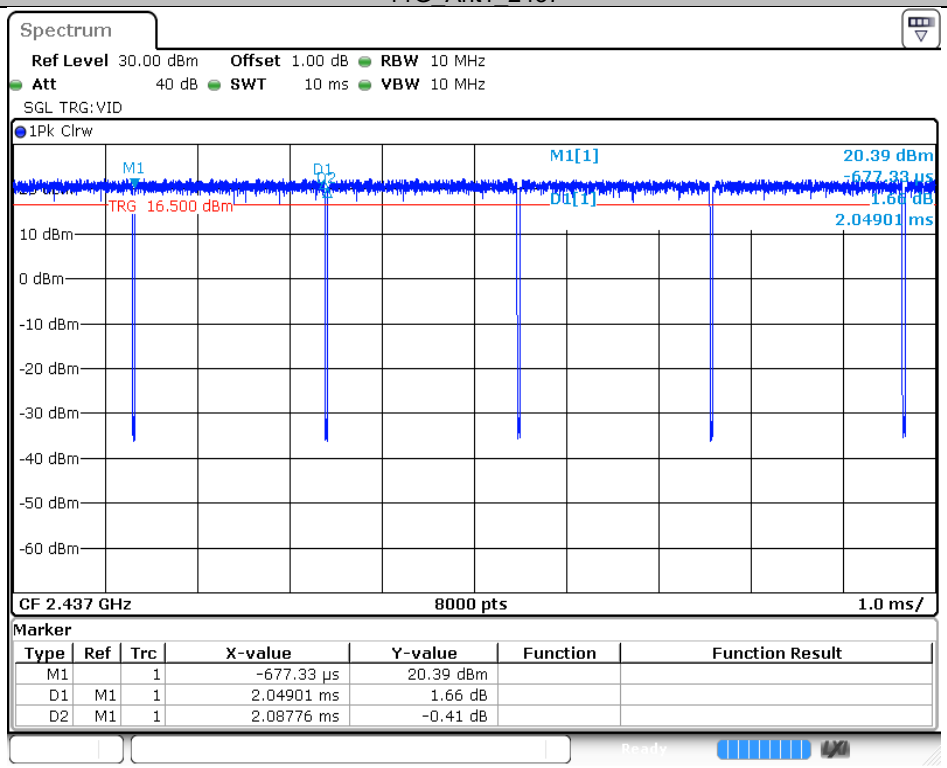

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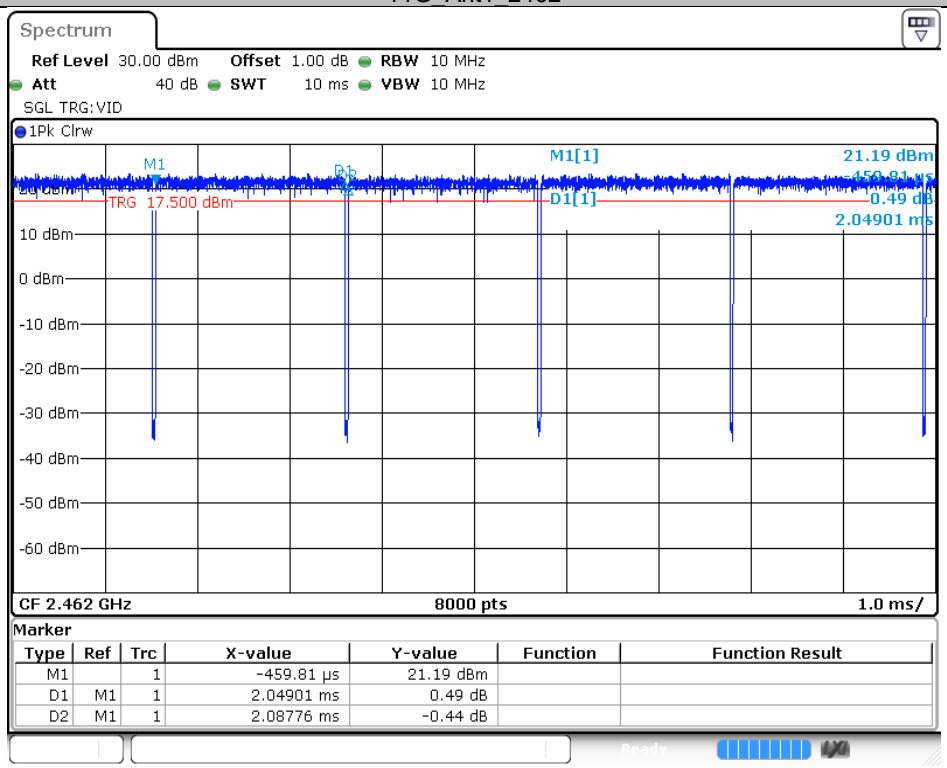

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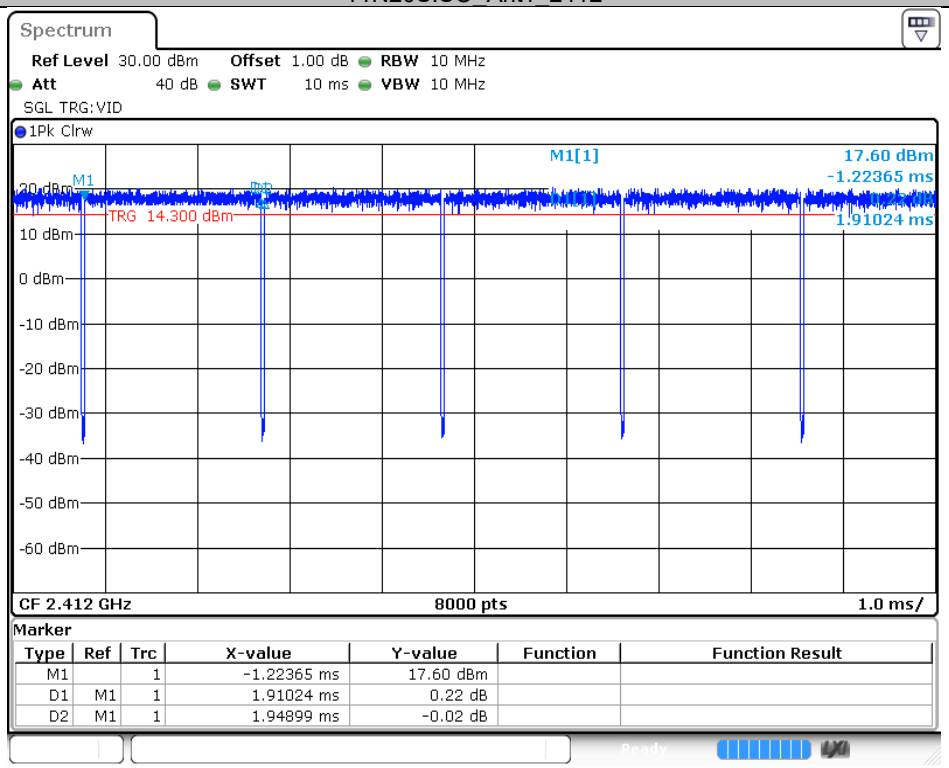
11N20SISO_Ant1_2412



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	-1.22365 ms	17.60 dBm		
D1	M1	1	1.91024 ms	0.22 dB		
D2	M1	1	1.94899 ms	-0.02 dB		

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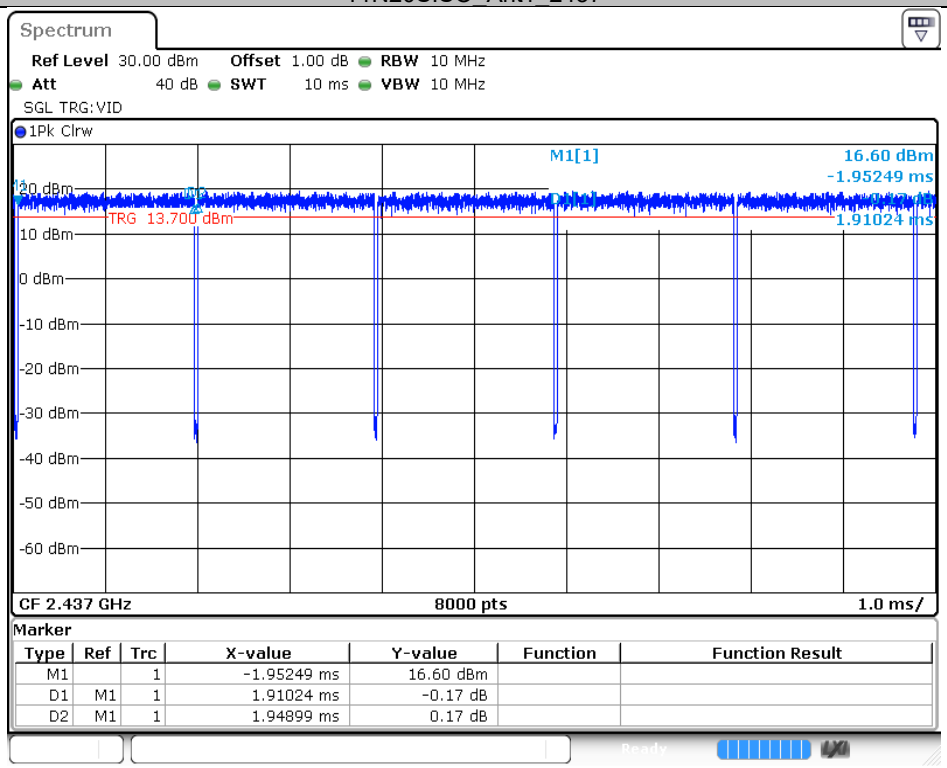

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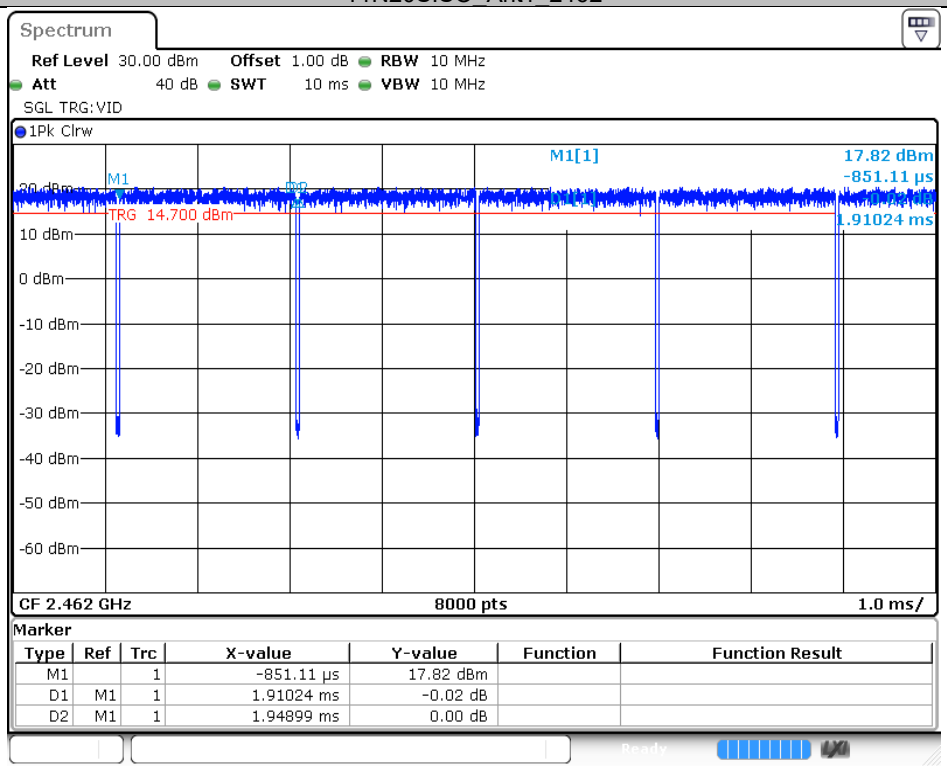

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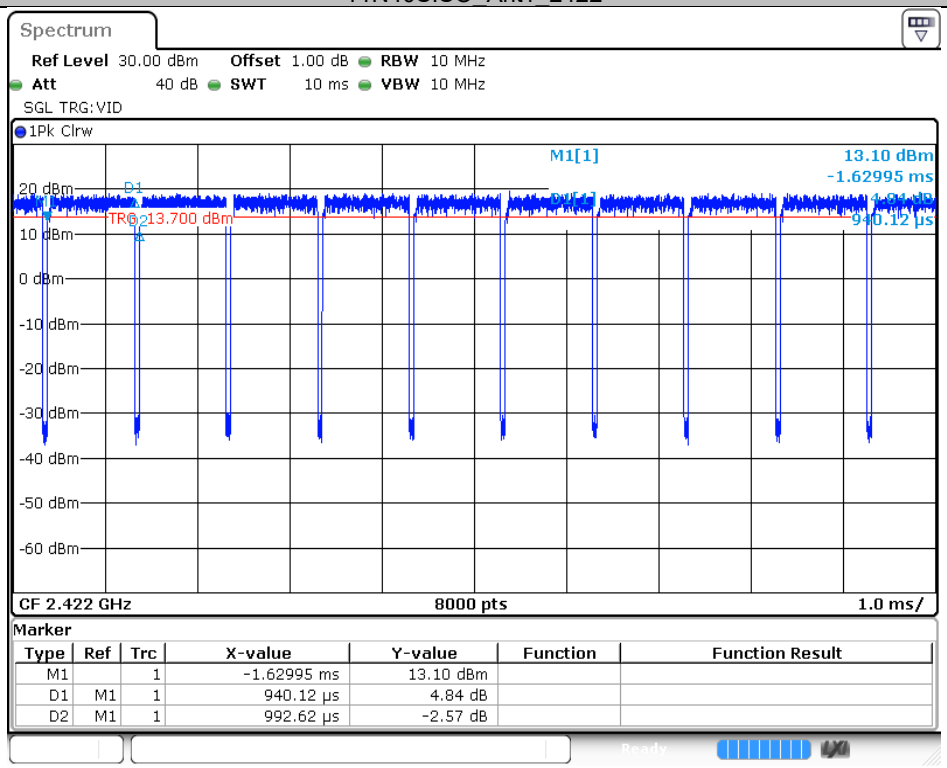

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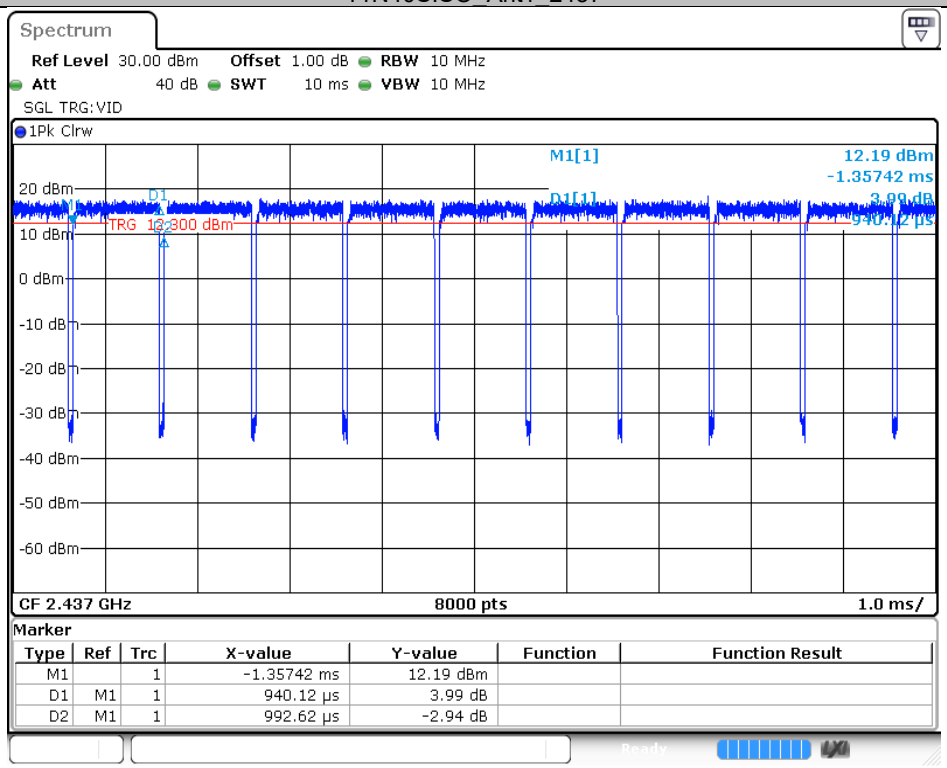

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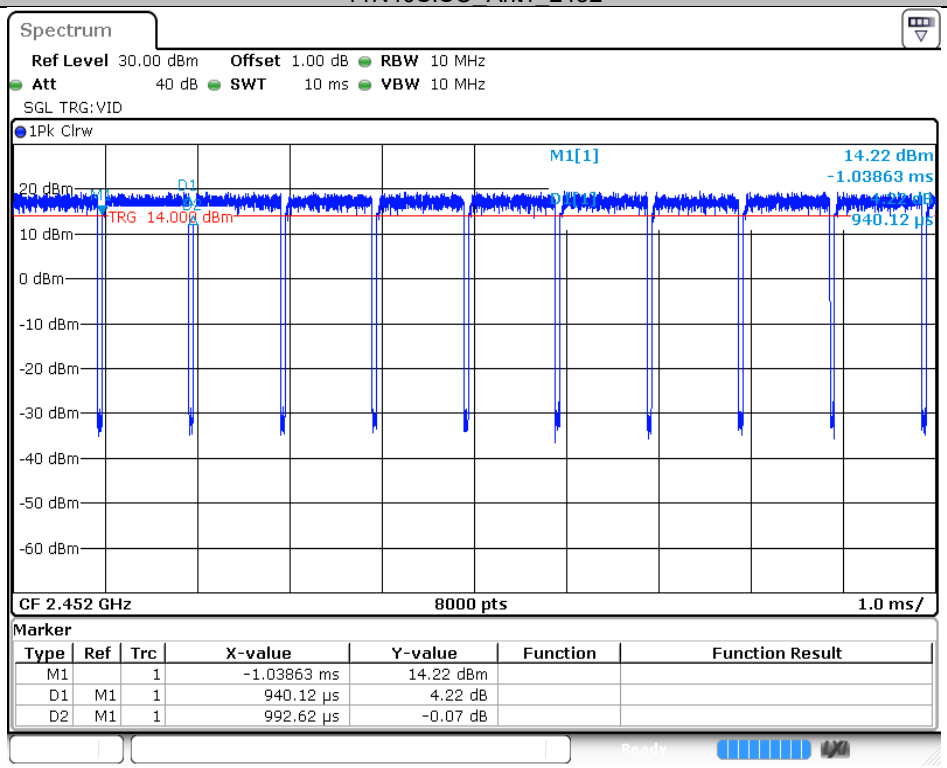

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