



FCC TEST REPORT

Application No: ZR/2020/60015
Applicant: LG Electronics USA, Inc.
Address of Applicant: 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer: Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer: No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China
EUT Description: Mobile handset
Model No.: LM-K420HWM, LM-K420HM
Trade Mark: LG
FCC ID: ZNFK420HWM
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Test Method: KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10 (2013)
Date of Receipt: 2020/6/22
Date of Test: 2020/7/22 to 2020/7/29
Date of Issue: 2020/8/13

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

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/8/13		Original

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Test Summary

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

Checked By

David Chen

David Chen
Reviewer

Test By

Daniel Wang

Daniel Wang
Project Engineer

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1 General Information

1.1 Client Information

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Manufacturer:	Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer:	No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Xi'an Branch
Address:	Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, Shaanxi China
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1.3 Test Facility

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

A2LA (Certificate No. 4854.01)

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

Test Site No.:	SGS Xi'an Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

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1.4 General Description of EUT

EUT Description::	Mobile handset
Model No.:	LM-K420HWM, LM-K420HM
Trade Mark:	LG
IEEE 802.11 WLAN Mode Supported	☒ 802.11B (20 MHz channel bandwidth), ☒ 802.11G (20 MHz channel bandwidth) ☒ 802.11N (20 MHz channel bandwidth), ☐ 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM IEEE for 802.11N(HT40) : OFDM
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11B/G/N), ☐ MIMO (for 802.11N): 2 Tx & 2 Rx, ☐ Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-3.8dBi
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	12	2467MHz
13	2472MHz						

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the three highest frequency of channels were selected to perform the test, and the selected

channel see below:

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Channel	Frequency for 802.11B/G/N (HT20)
CH 1	2412MHz
CH 6	2437MHz
CH 11	2462MHz
CH 12	2467MHz
CH 13	2472MHz

1.5 Test Environment and Mode

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

1.6 Description of Support Units

The EUT has been tested independent unit.

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1.7 MCC Country code detection mechanism specification

Network mode	Description
No country code received	The device only operates with the default country code. (12/13 channels enable)
Invalid country code received	The device can't get invalid country code. If the network is connected, the country code is set in US. (12/13 channels disable) Otherwise, if the network is not connected, the device operates with the default country code. (12/13 channels enable)
US country code	If the network is connected, the country code is set in US. (12/13 channels disable) Otherwise, if the network is not connected, the device operates with the default country code. (12/13 channels enable)
US territories country code (Guam, Puerto Rico)	If the network is connected, the country code is set according to the network service. Otherwise, if the network is not connected, the device operates with the default country code. (12/13 channels enable)
Airplane mode	The device only operates with the default country code. (12/13 channels enable)
On loss of non-US country code (drop the link any verify device returns to default state)	The device only operates with the default country code. (12/13 channels enable)

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Remark:

1.Channel 12 and 13 are enable in default mode for this device.Channel 12 and 13 use lower target power.

2.The device always use country code as geo-location information and it is determined only when the device is attached to CDMA/2G/3G/LTE network.Additionally,in case of the invalid country code, Wi-Fi driver will revert to the NV Binary code in which channels 1-13 are enabled.Therefore there will be no problem with those scenarios.

3.The device always use the country code as location information and it periodically checks the information in a few seconds until the device is attached to CDMA/2G/3G/LTE network.For the multiple cell network environment with different MCC codes, there will be network roam search with intervals below and the device will get the updated country code when the device is attached to the different network.

-CDMA network:Every 3 seconds

-2G/3G/LTE network:Every 2 seconds

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2 Test results and Measurement Data

2.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -3.8dBi.	

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2.2 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. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

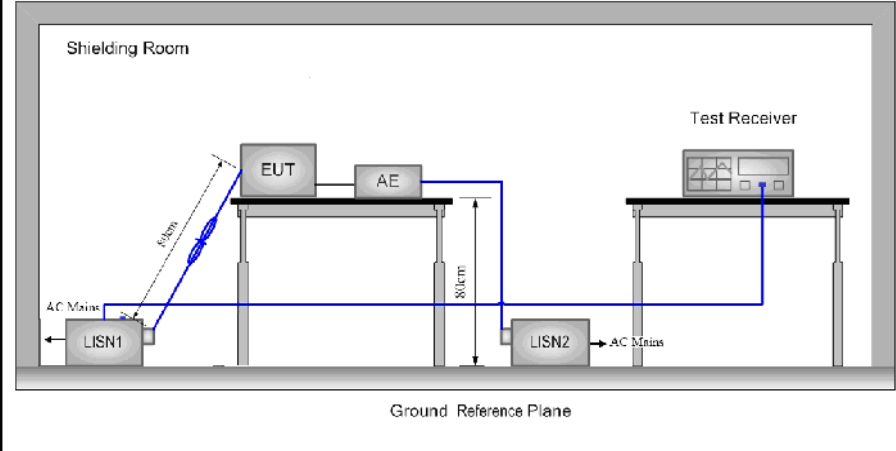
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the 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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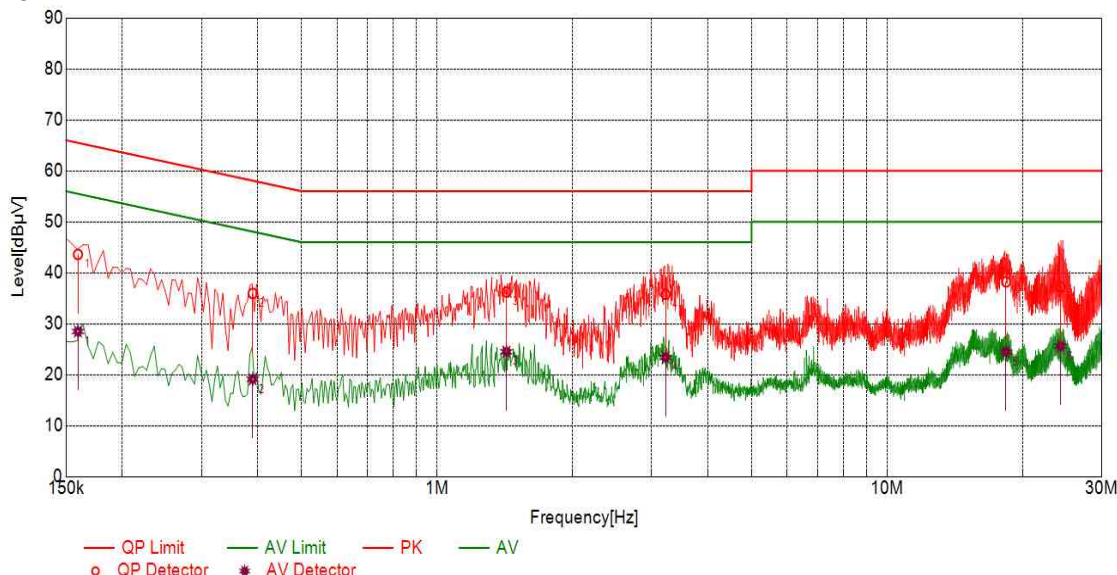


Measurement Data

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]	Type
1	0.1594	10.10	43.60	65.49	21.89	28.48	55.49	27.01	L
2	0.3897	10.10	35.95	58.07	22.12	19.10	48.07	28.97	L
3	1.4268	10.10	36.23	56.00	19.77	24.49	46.00	21.51	L
4	3.2211	10.10	35.78	56.00	20.22	23.39	46.00	22.61	L
5	18.3783	10.11	38.22	60.00	21.78	24.47	50.00	25.53	L
6	24.2960	10.11	37.19	60.00	22.81	25.61	50.00	24.39	L

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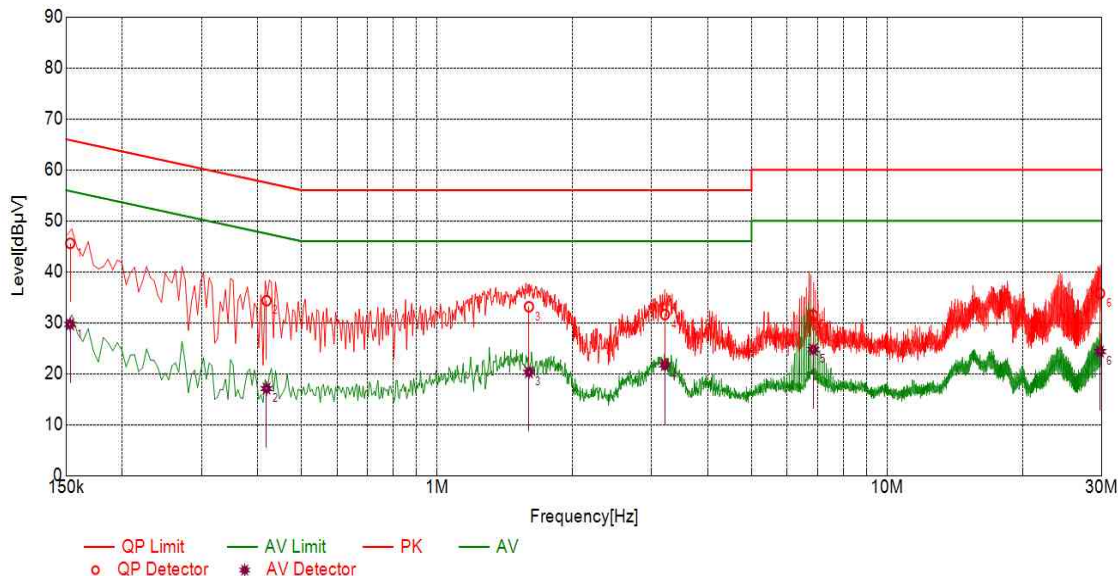
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Neutral Line:



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	0.1532	10.10	45.58	65.83	20.25	29.68	55.83	26.15	N
2	0.4183	10.10	34.33	57.48	23.15	17.08	47.48	30.40	N
3	1.6008	10.10	33.14	56.00	22.86	20.28	46.00	25.72	N
4	3.2084	10.10	31.60	56.00	24.40	21.72	46.00	24.28	N
5	6.8559	10.10	31.46	60.00	28.54	24.73	50.00	25.27	N
6	29.7209	10.11	35.75	60.00	24.25	24.36	50.00	25.64	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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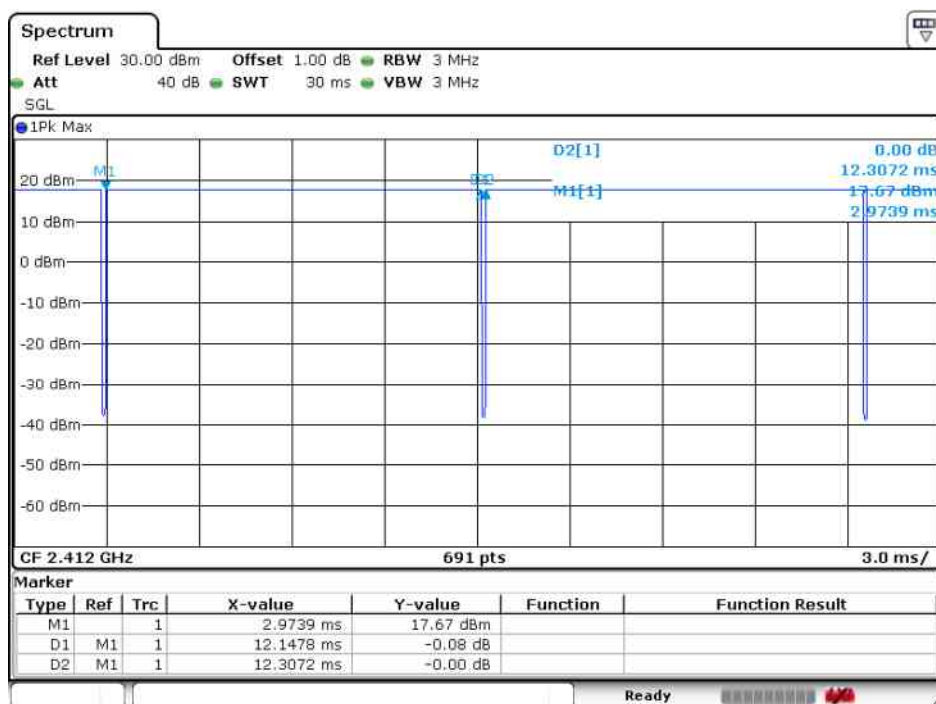
2.3 Duty Cycle

2.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	CH1	98.70
11G	CH1	95.94
11N20	CH1	95.63

2.3.1 Test Plots

2.3.1.1 11B



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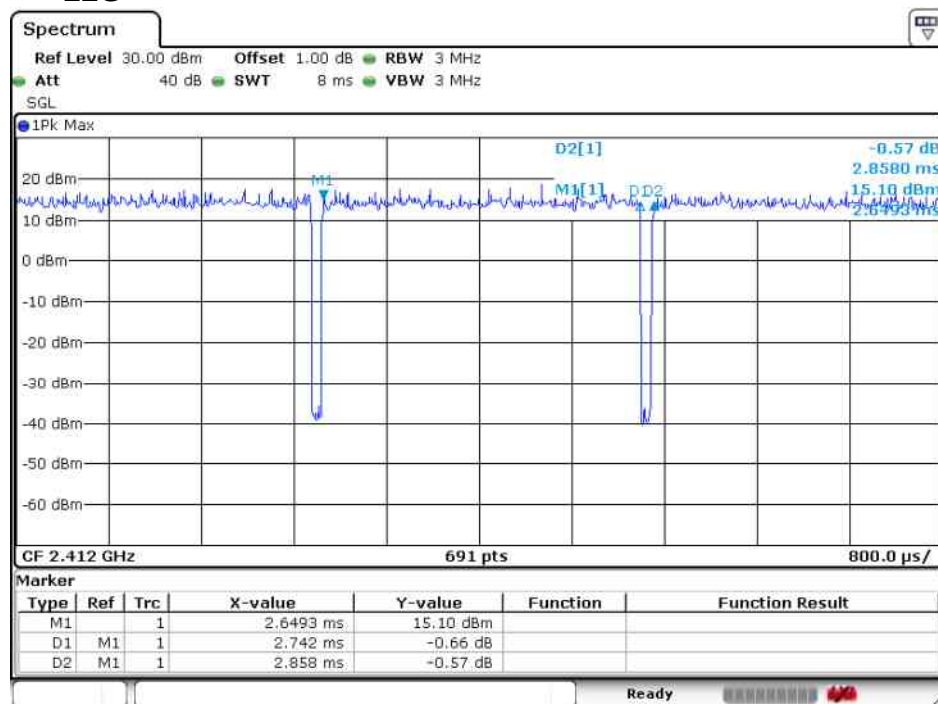
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2.3.1.2

11G



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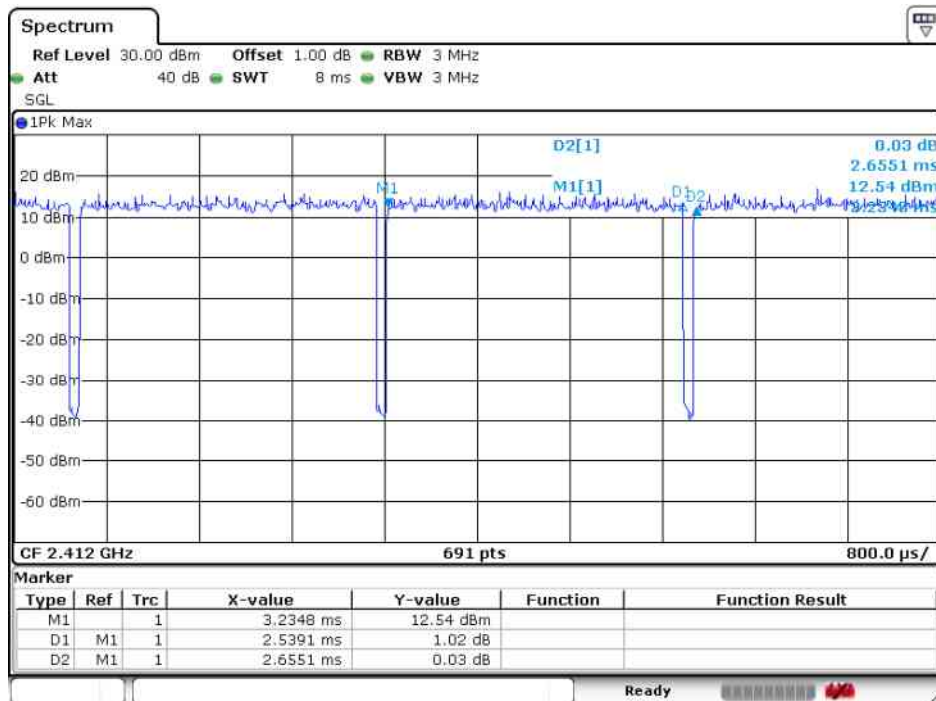
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2.3.1.3

11N20



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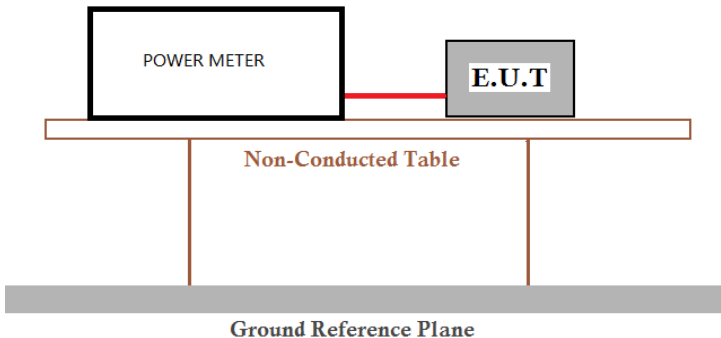
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2.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 The diagram illustrates the test setup. A rectangular box labeled 'POWER METER' is connected by a red line to a smaller rectangular box labeled 'E.U.T.'. Both boxes are positioned on a horizontal line representing the 'Non-Conducted Table'. Below this table, there is a thick grey horizontal bar representing the 'Ground Reference Plane'.
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20);
Limit:	30dBm
Test Results:	Pass

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2.4.1 Test Results

Measurement Data of Peak Power:

Mode	Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
802.11B	CH1	17.73	30.00	Pass
	CH6	17.27	30.00	Pass
	CH11	17.20	30.00	Pass
	CH12	5.75	30.00	Pass
	CH13	5.77	30.00	Pass
802.11G	CH1	15.30	30.00	Pass
	CH6	16.07	30.00	Pass
	CH11	14.83	30.00	Pass
	CH12	5.78	30.00	Pass
	CH13	5.58	30.00	Pass
802.11N20	CH1	14.98	30.00	Pass
	CH6	16.04	30.00	Pass
	CH11	13.74	30.00	Pass
	CH12	5.77	30.00	Pass
	CH13	5.41	30.00	Pass

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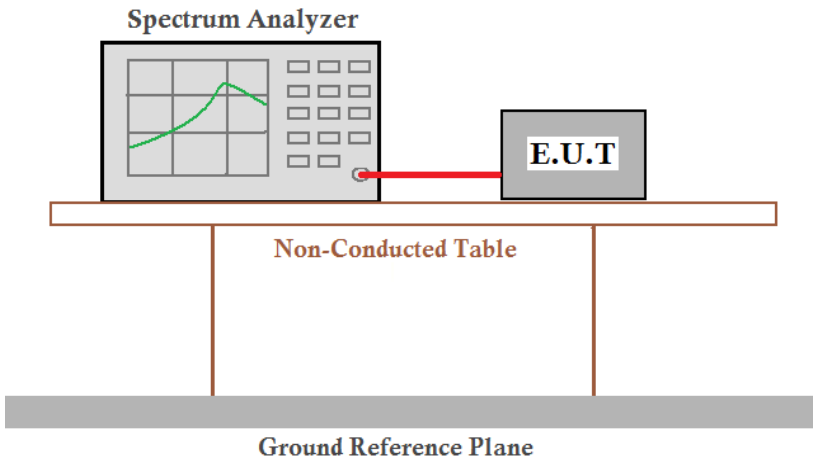
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2.5 DTS (6 dB) Bandwidth&99% Occupied Bandwidth

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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20);
Limit:	≥ 500 kHz
Test Results:	Pass

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2.5.1 Test Results For DTS (6 dB) Bandwidth&99% Occupied Bandwidth

Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
802.11B	CH1	12.94	9.03	≥500	Pass
	CH6	12.85	8.99	≥500	Pass
	CH11	12.98	8.99	≥500	Pass
	CH12	12.50	8.06	≥500	Pass
	CH13	12.59	8.48	≥500	Pass
802.11G	CH1	16.76	16.02	≥500	Pass
	CH6	16.93	16.32	≥500	Pass
	CH11	16.89	16.28	≥500	Pass
	CH12	16.57	15.67	≥500	Pass
	CH13	16.60	15.70	≥500	Pass
802.11N20	CH1	17.71	17.11	≥500	Pass
	CH6	17.97	17.58	≥500	Pass
	CH11	17.84	17.28	≥500	Pass
	CH12	17.59	16.06	≥500	Pass
	CH13	17.65	16.03	≥500	Pass

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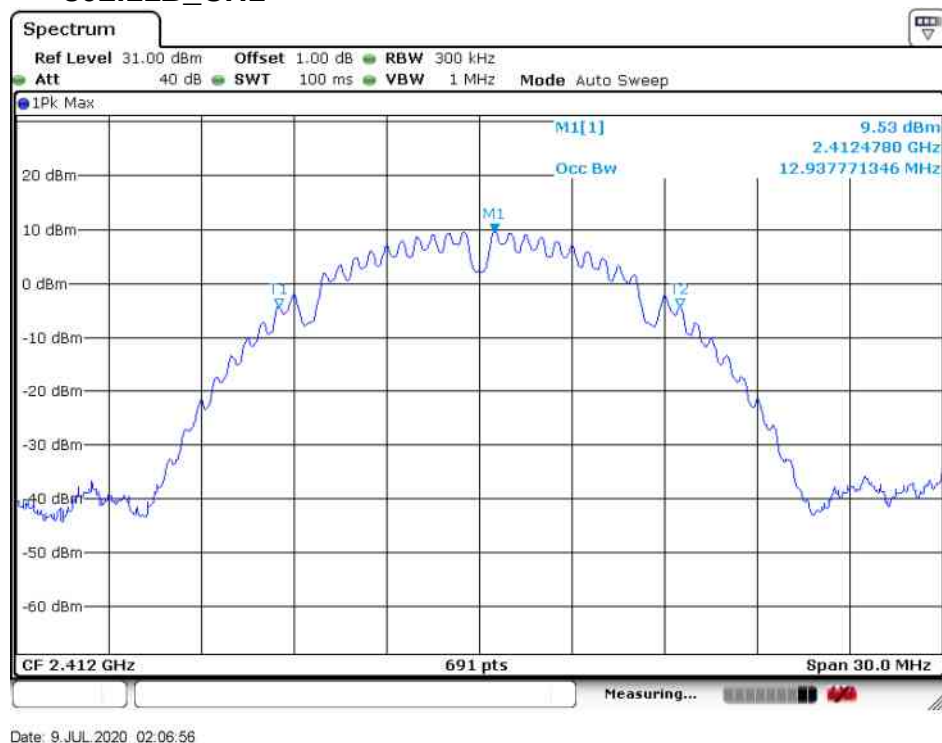
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2.5.2 Test plots For Occupied Bandwidth

2.5.2.1 802.11B_CH1



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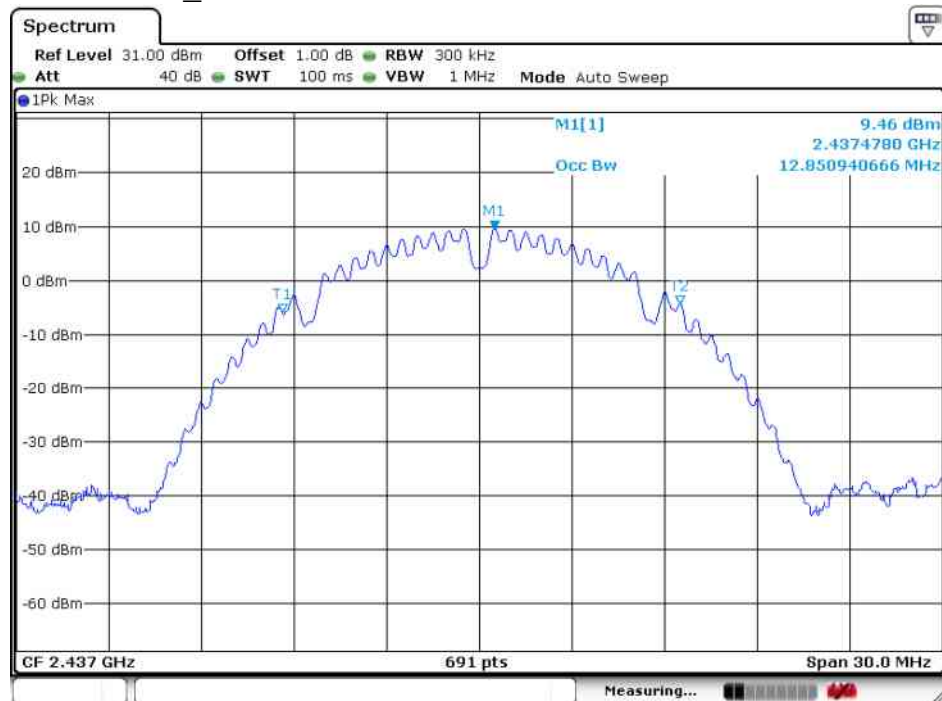
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2.5.2.2

802.11B_CH6



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2.5.2.3

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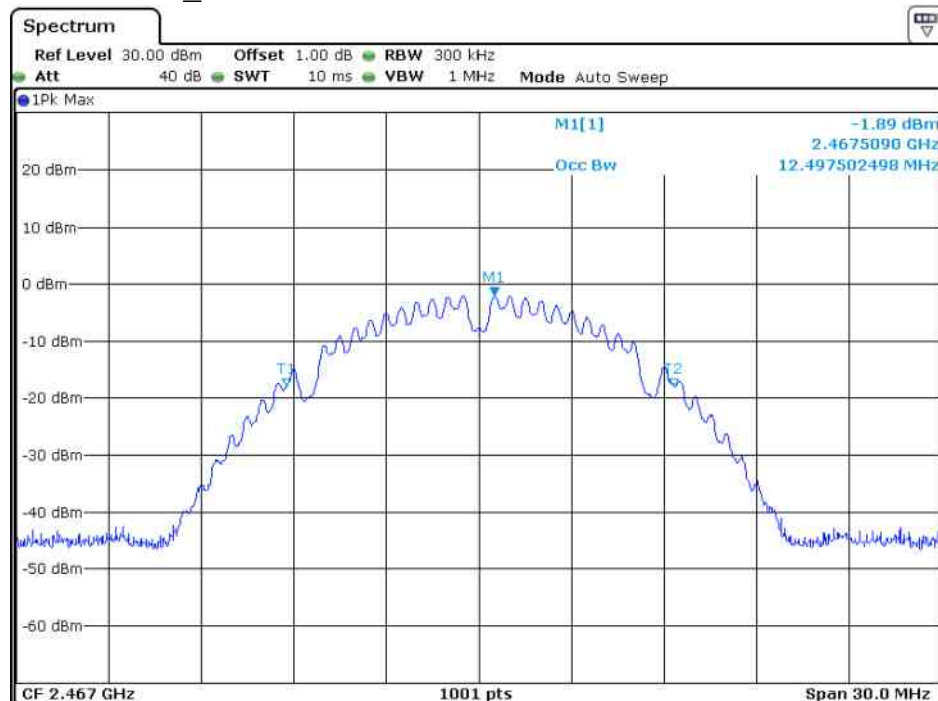
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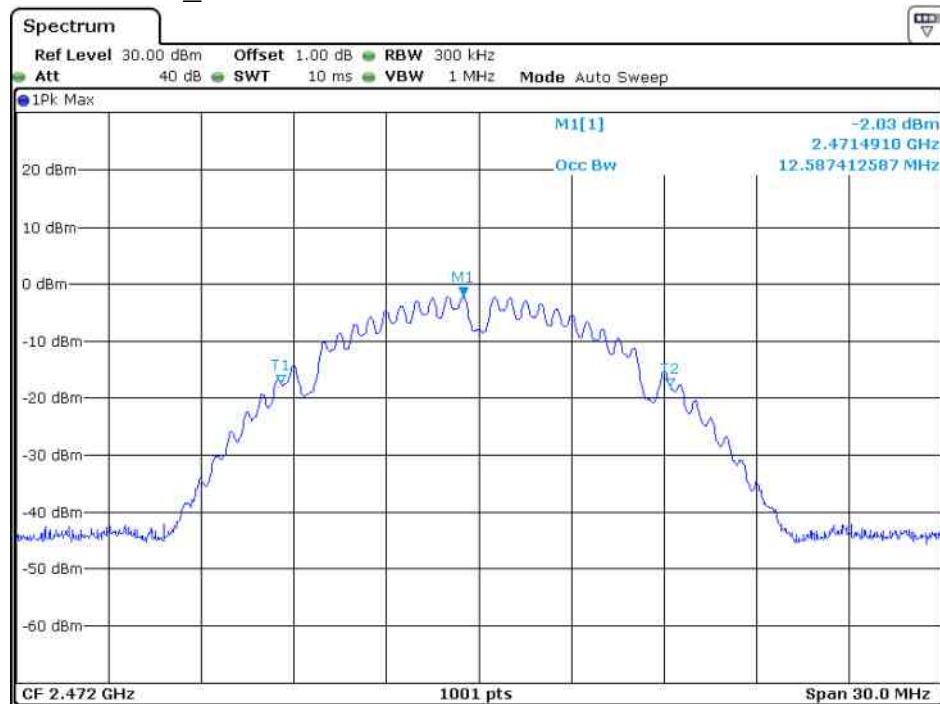
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2.5.2.5

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2.5.2.6

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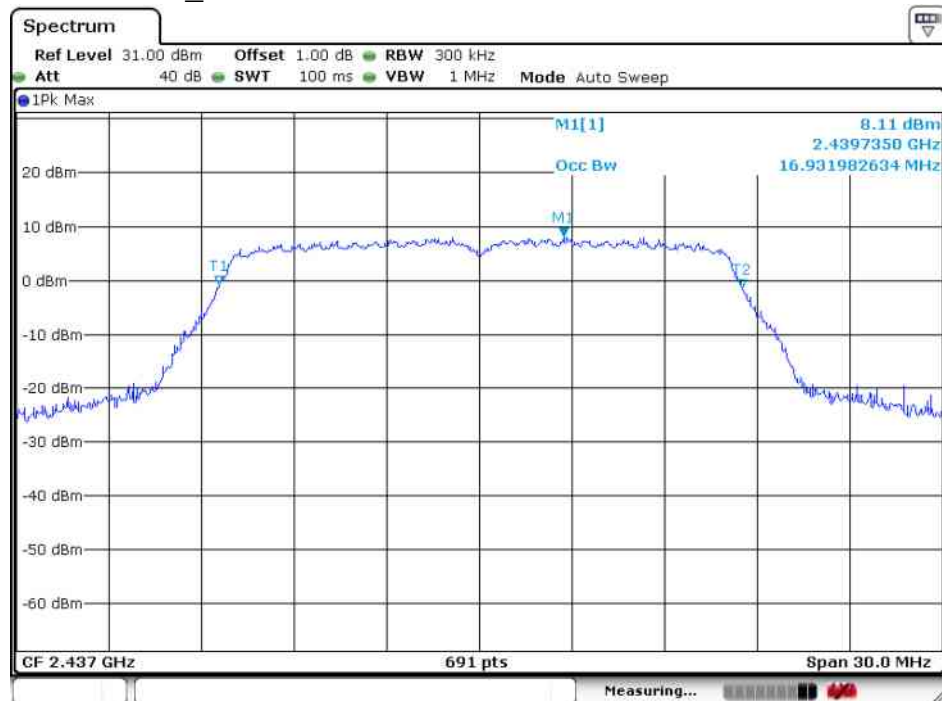
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2.5.2.8

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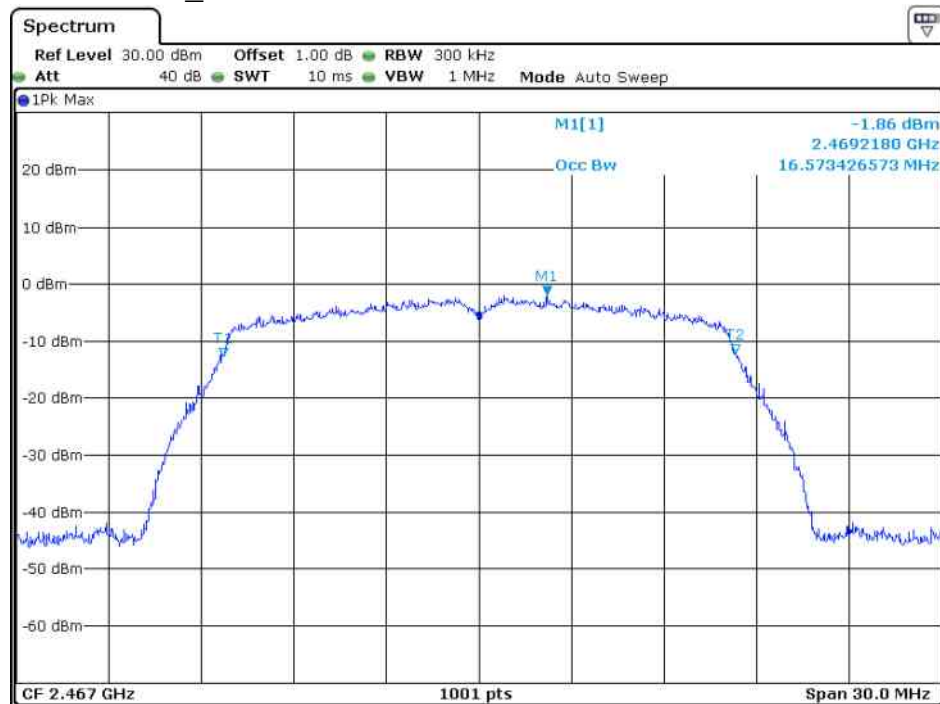
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2.5.2.9

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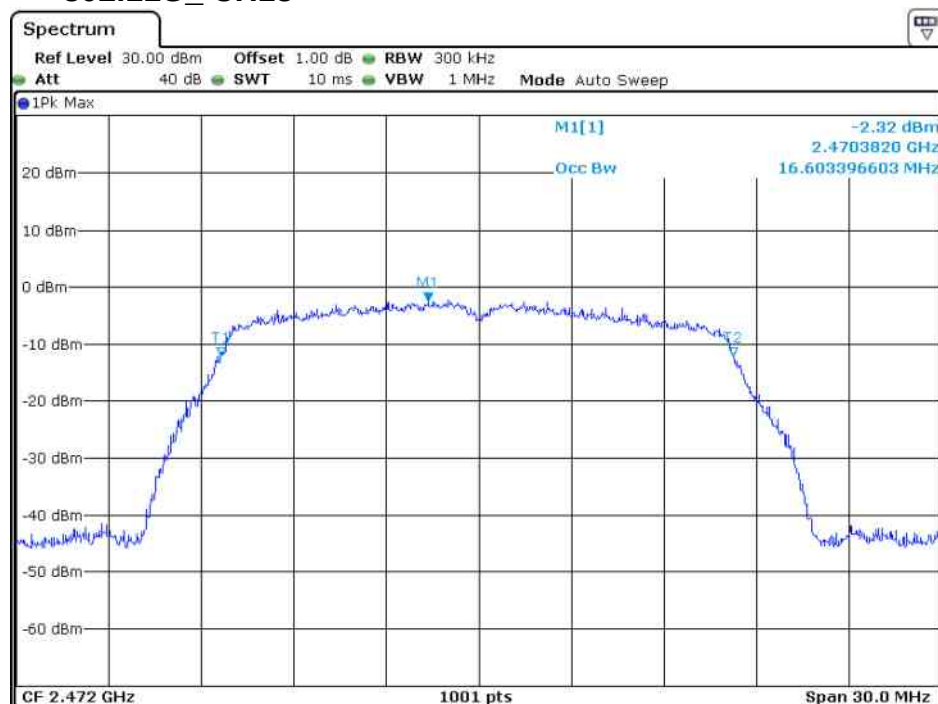
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2.5.2.10

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2.5.2.11 802.11N20_ CH1



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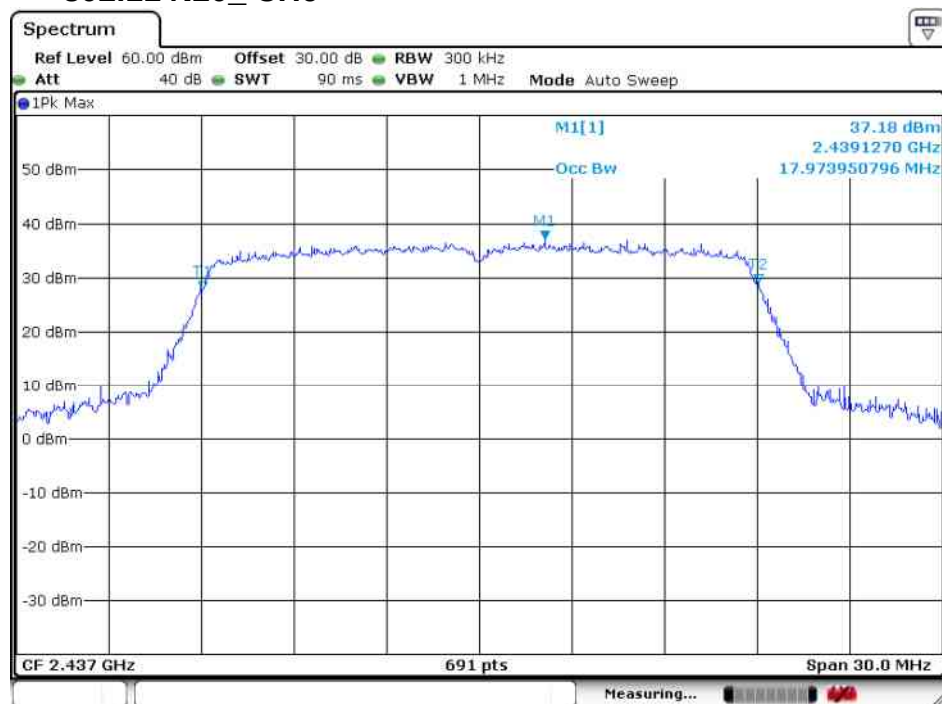
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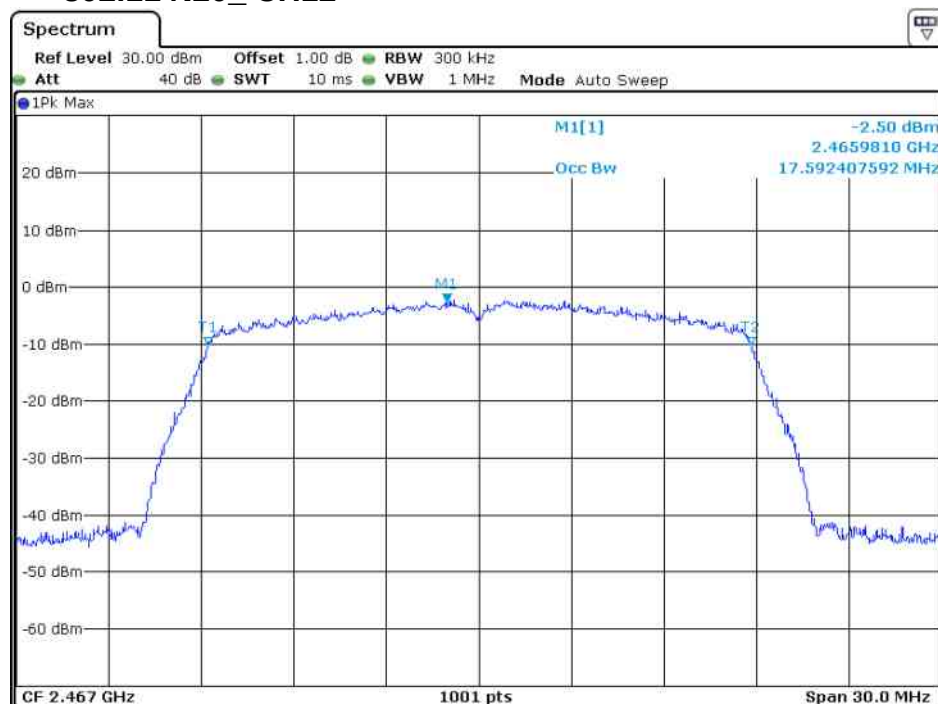
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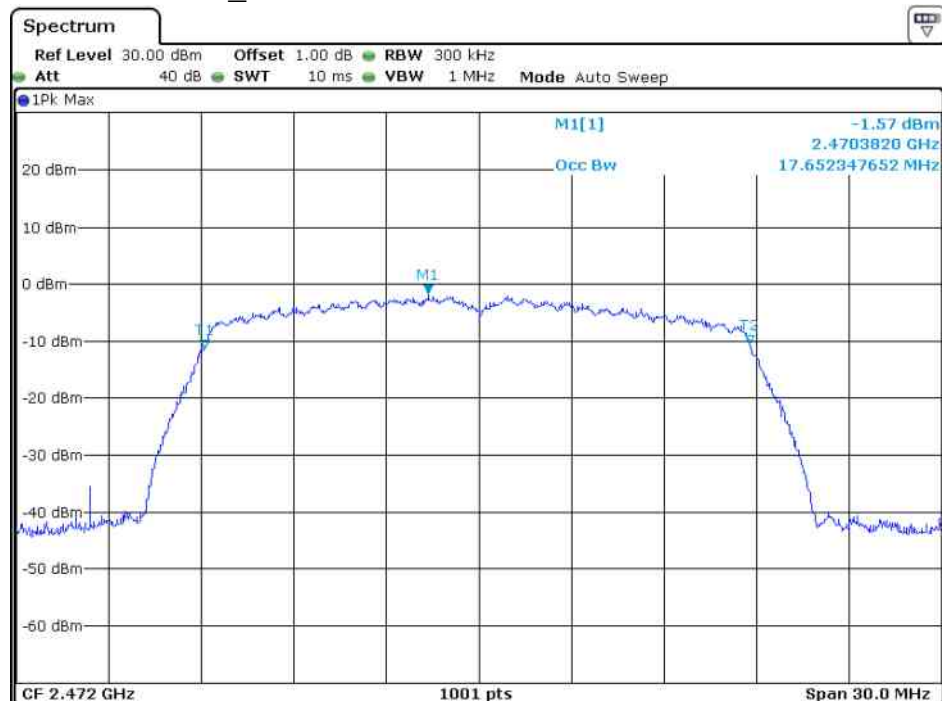
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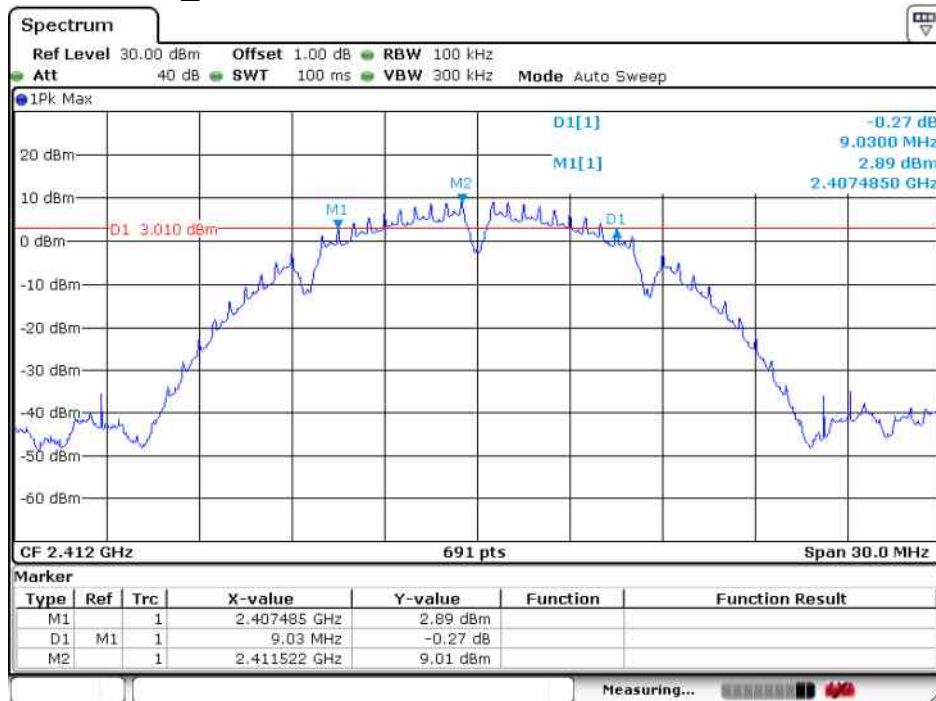
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2.5.3 Test plots For 6dB Emission Bandwidth

2.5.3.1 802.11B_ CH1



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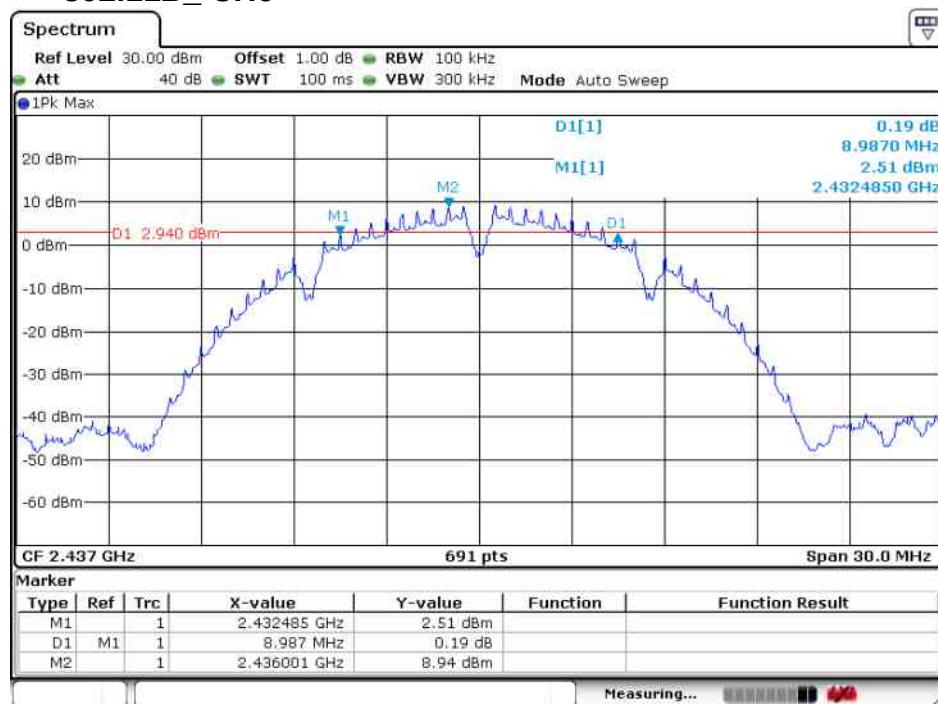
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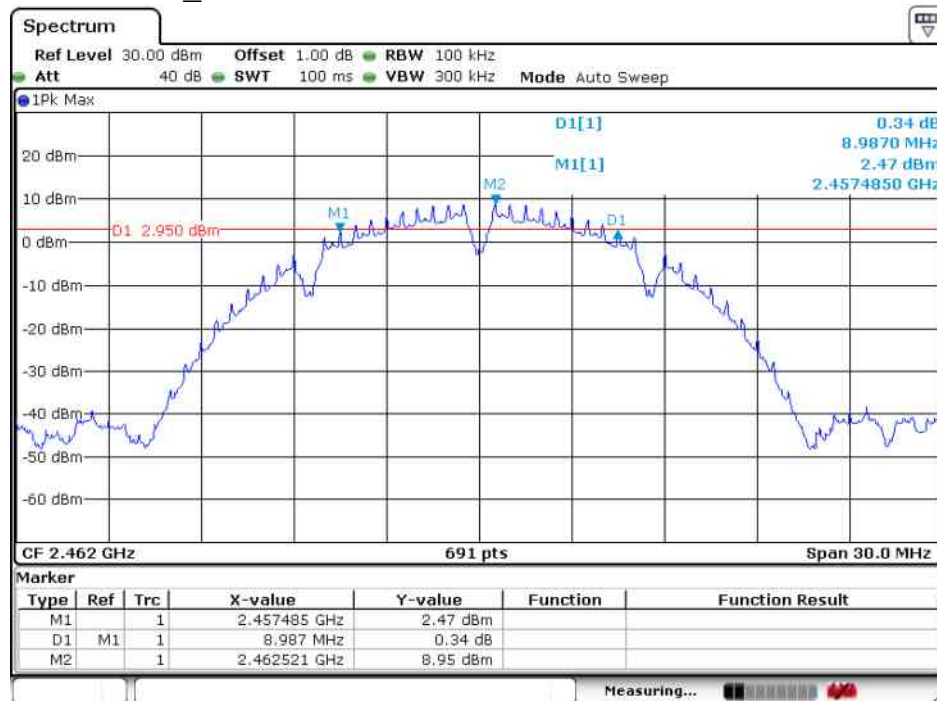
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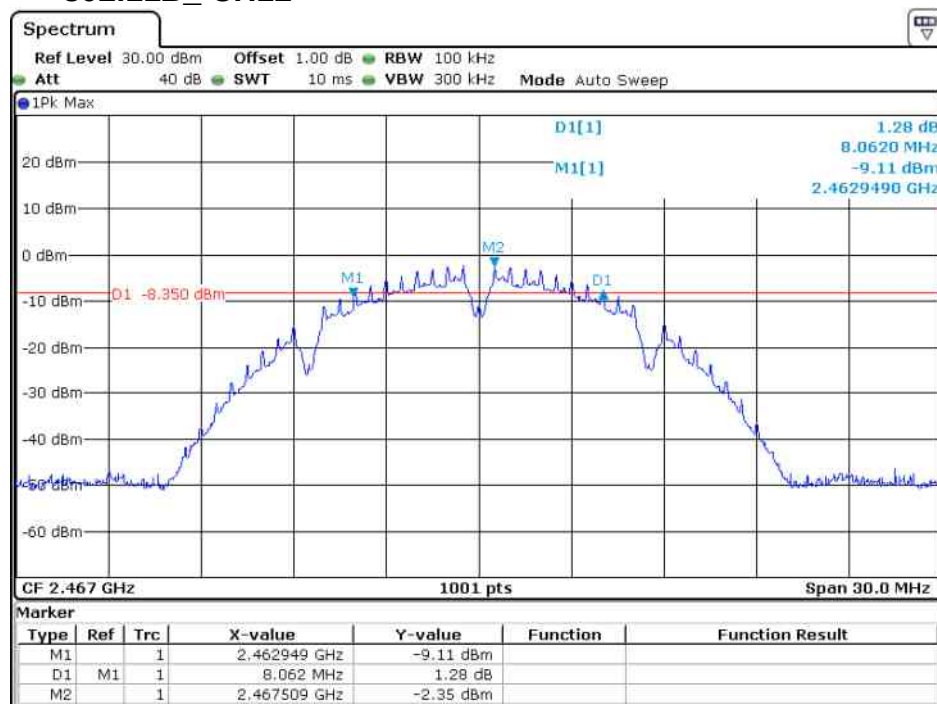
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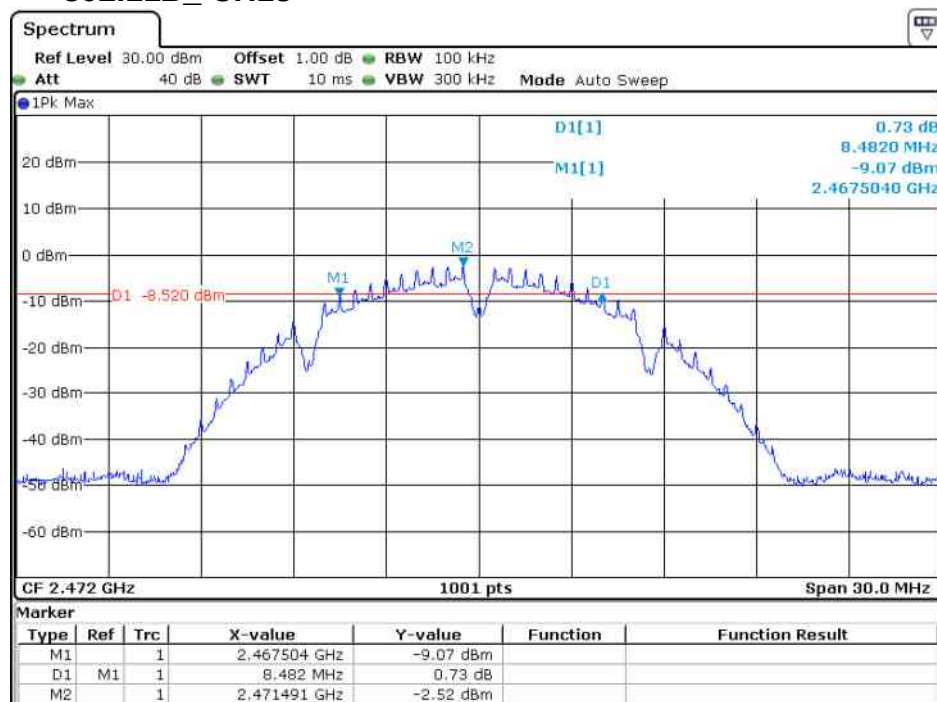
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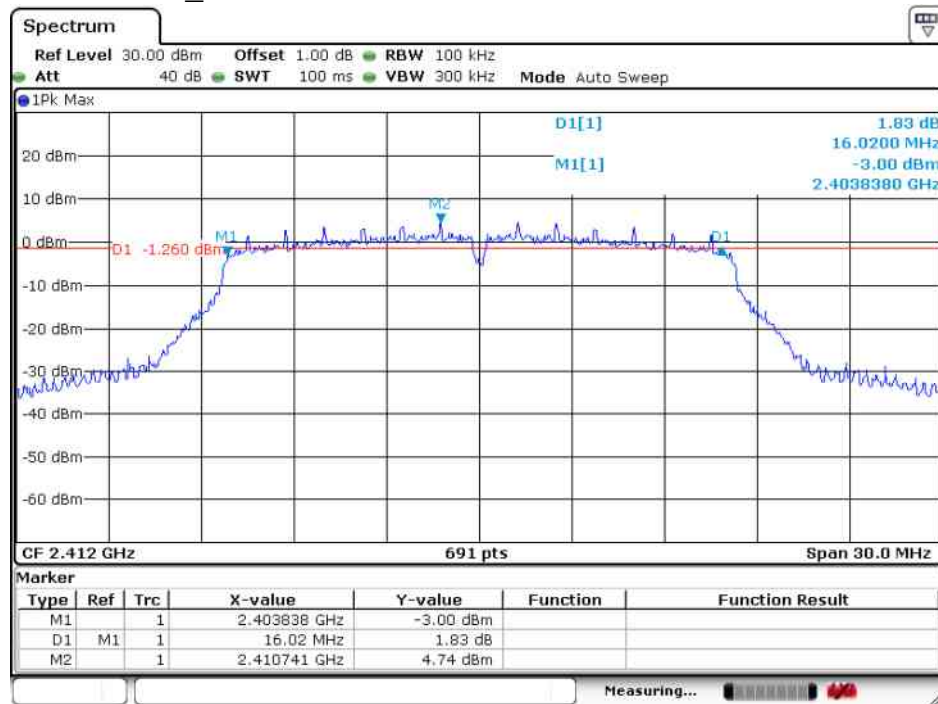
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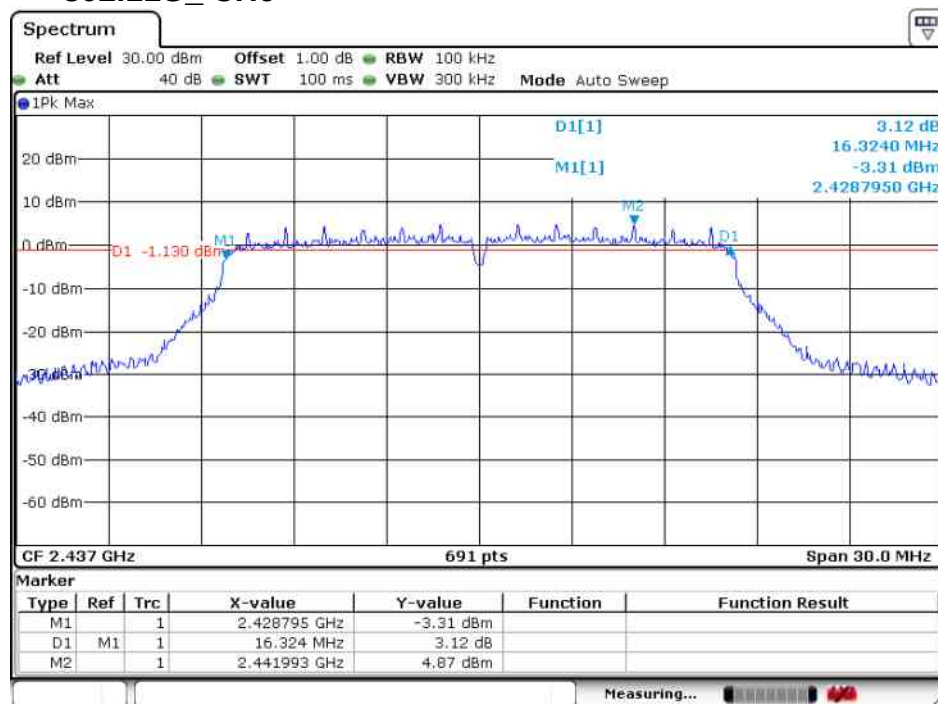
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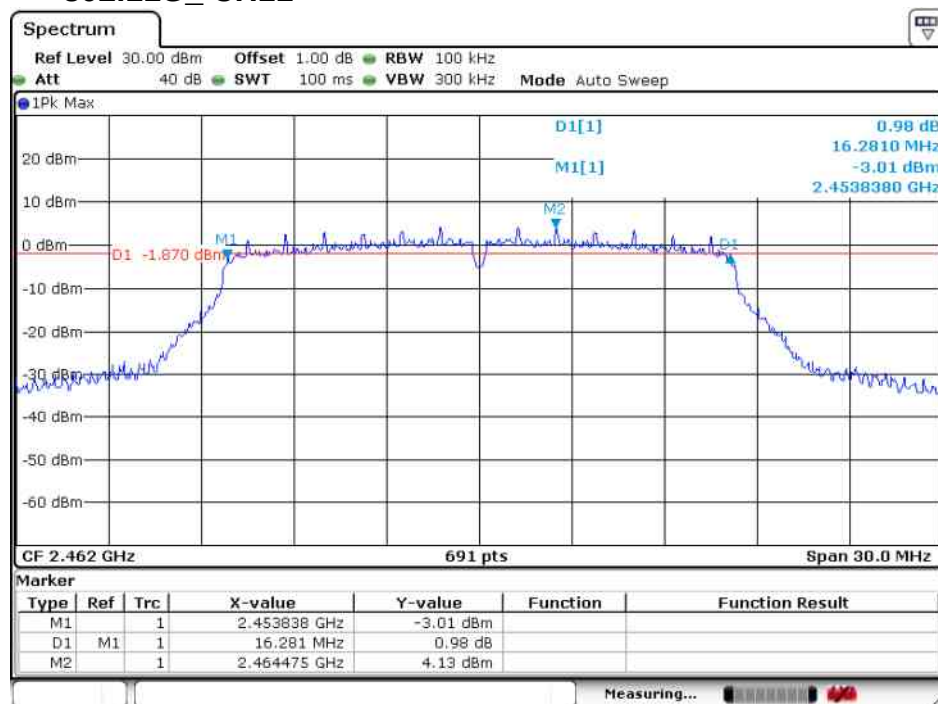
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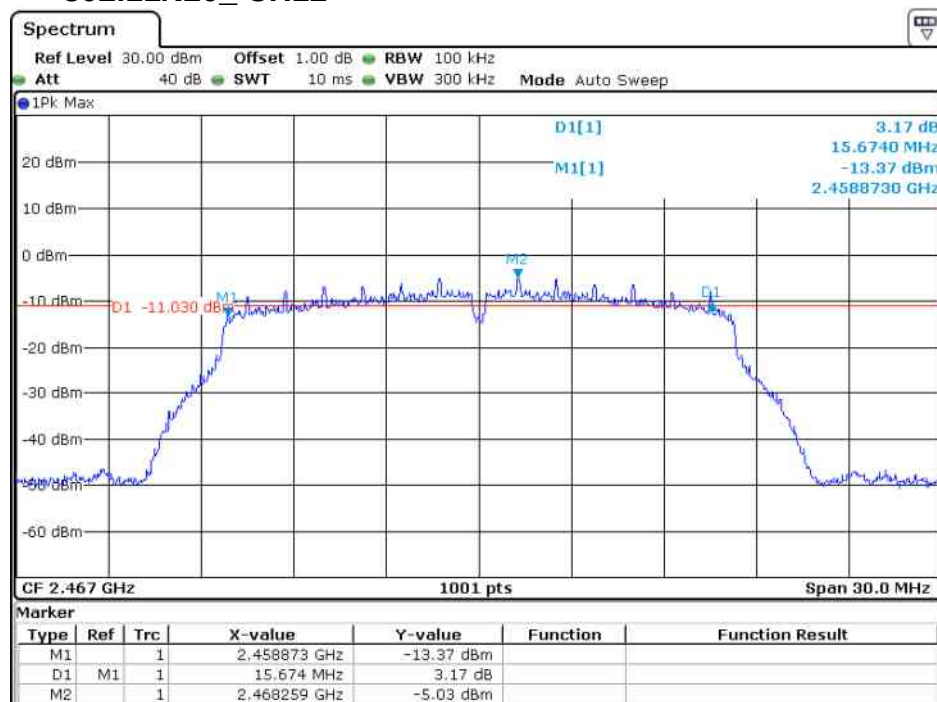
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2.5.3.9

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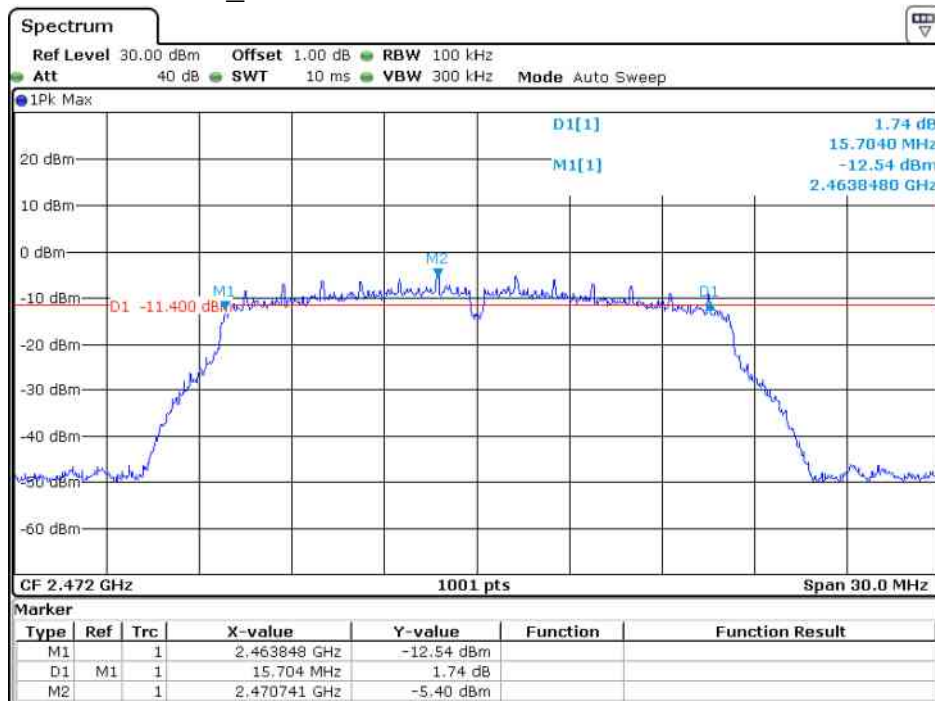
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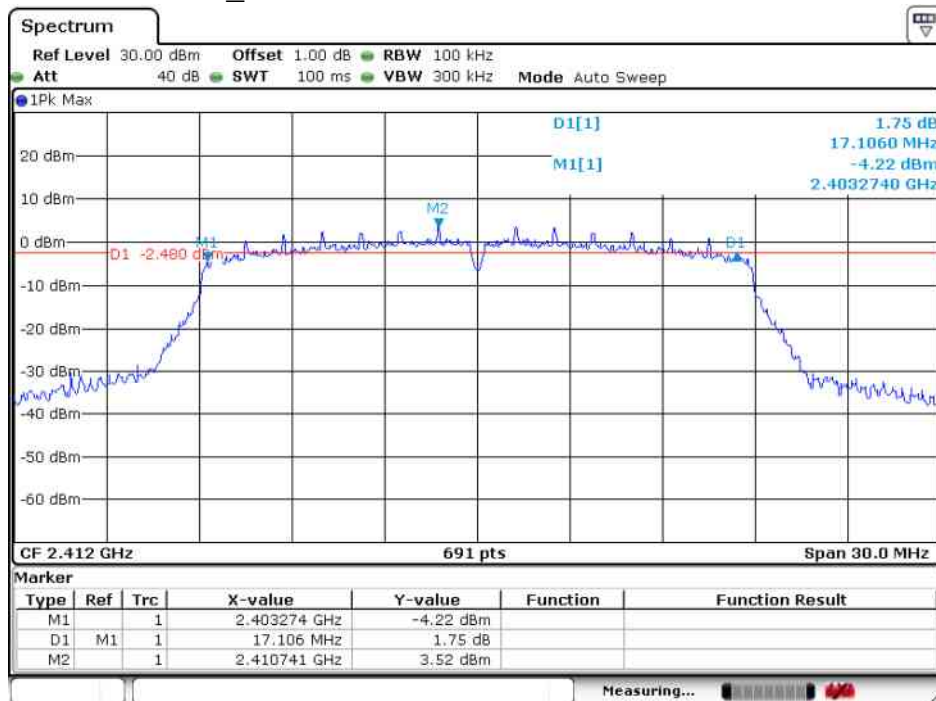
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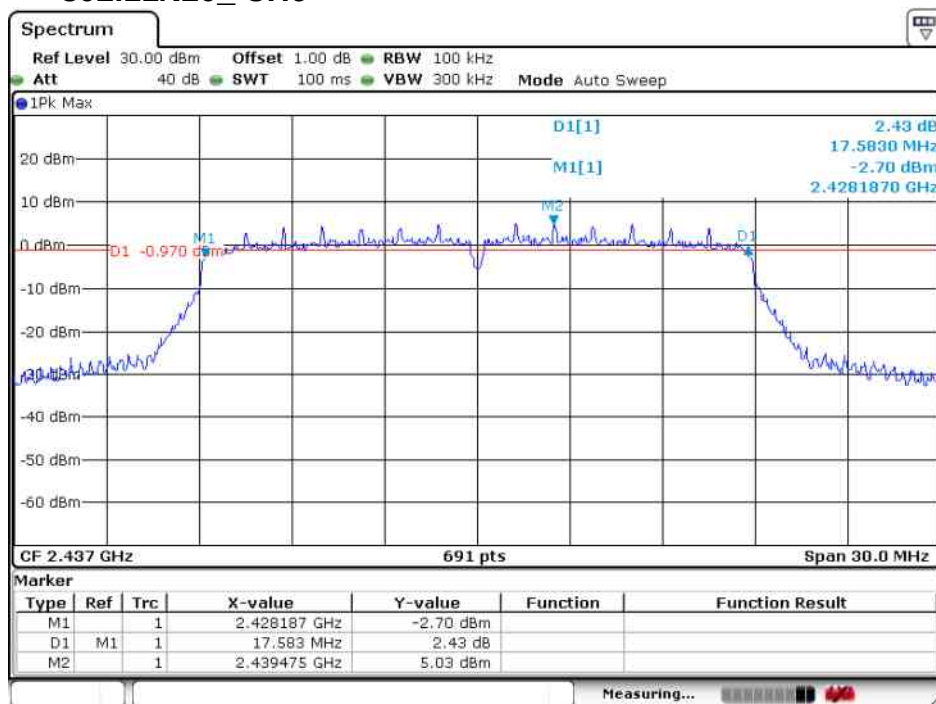
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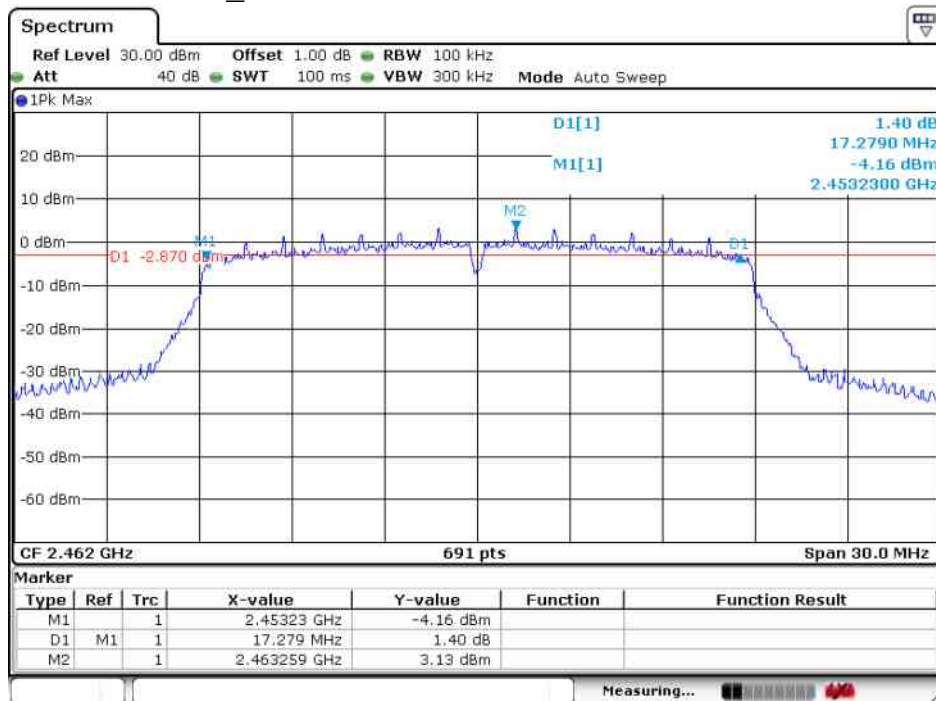
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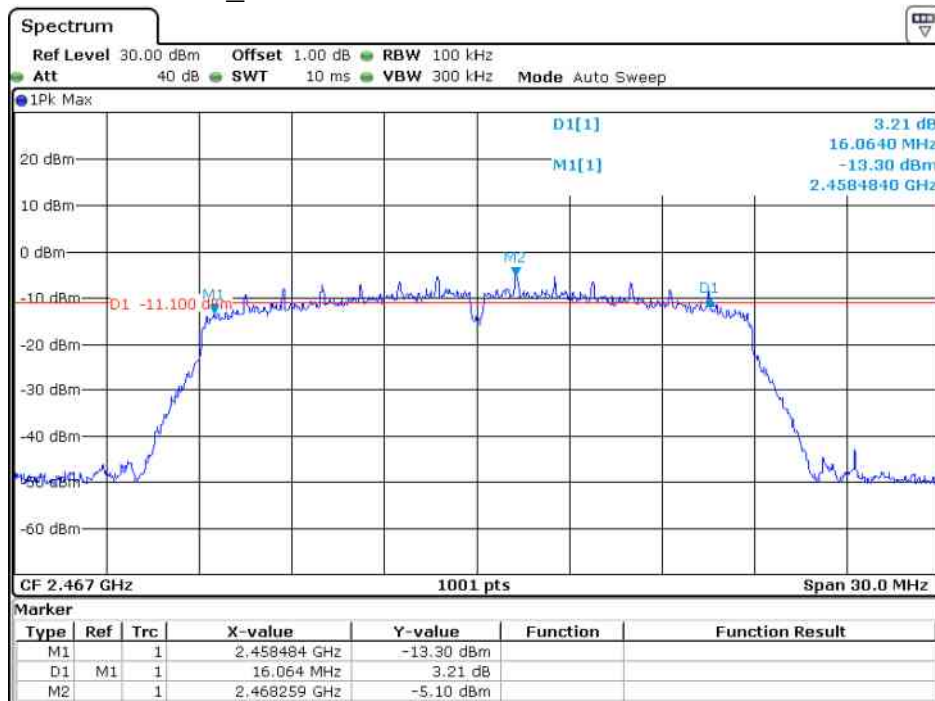
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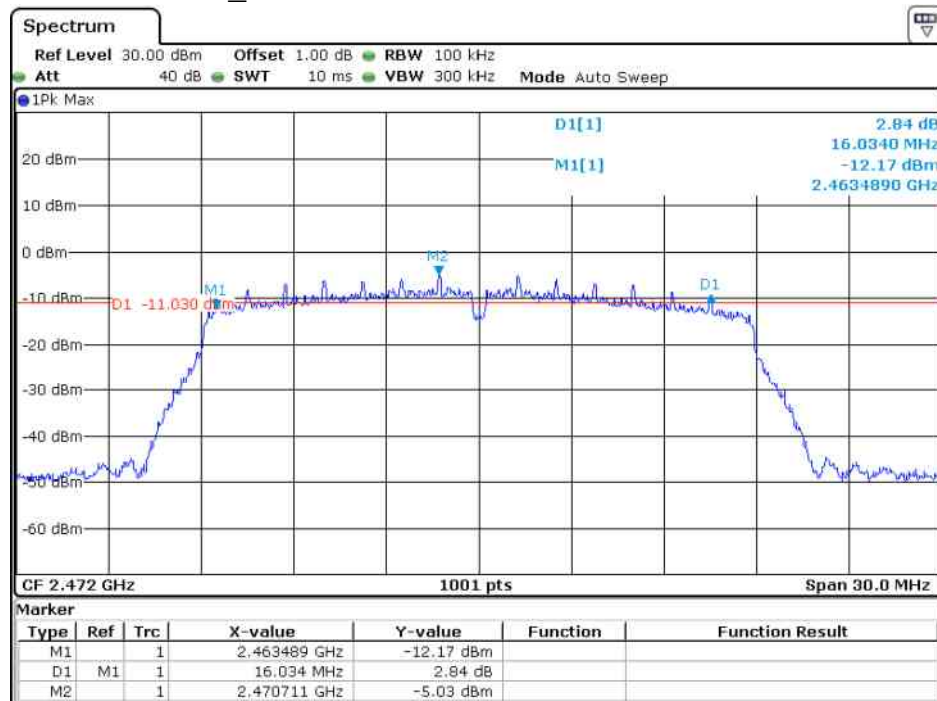
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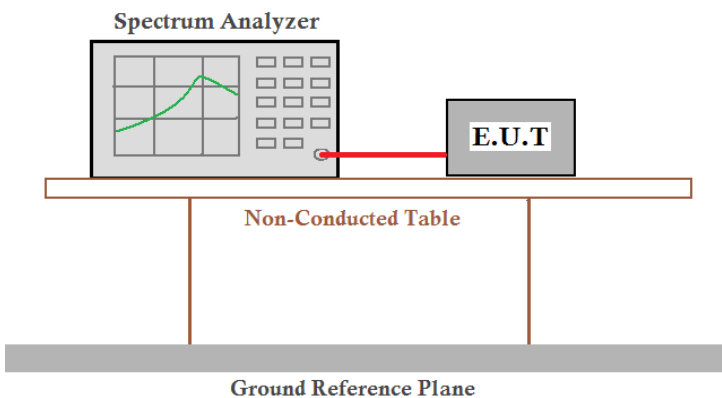
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2.6 Power Spectral Density

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);
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

2.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11B	CH1	-4.52	≤8.00	Pass
	CH6	-4.61	≤8.00	Pass
	CH11	-3.67	≤8.00	Pass
	CH12	-15.96	≤8.00	Pass
	CH13	-17.11	≤8.00	Pass
802.11G	CH1	-7.83	≤8.00	Pass
	CH6	-7.98	≤8.00	Pass
	CH11	-8.60	≤8.00	Pass
	CH12	-19.21	≤8.00	Pass
	CH13	-18.42	≤8.00	Pass
	CH1	-9.65	≤8.00	Pass

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802.11N20	CH6	-8.73	≤8.00	Pass
	CH11	-9.70	≤8.00	Pass
	CH12	-18.75	≤8.00	Pass
	CH13	-18.94	≤8.00	Pass

2.6.2 Test plots

2.6.2.1 802.11B_CH1



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2.6.2.2

802.11B_CH6



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2.6.2.3

802.11B CH11



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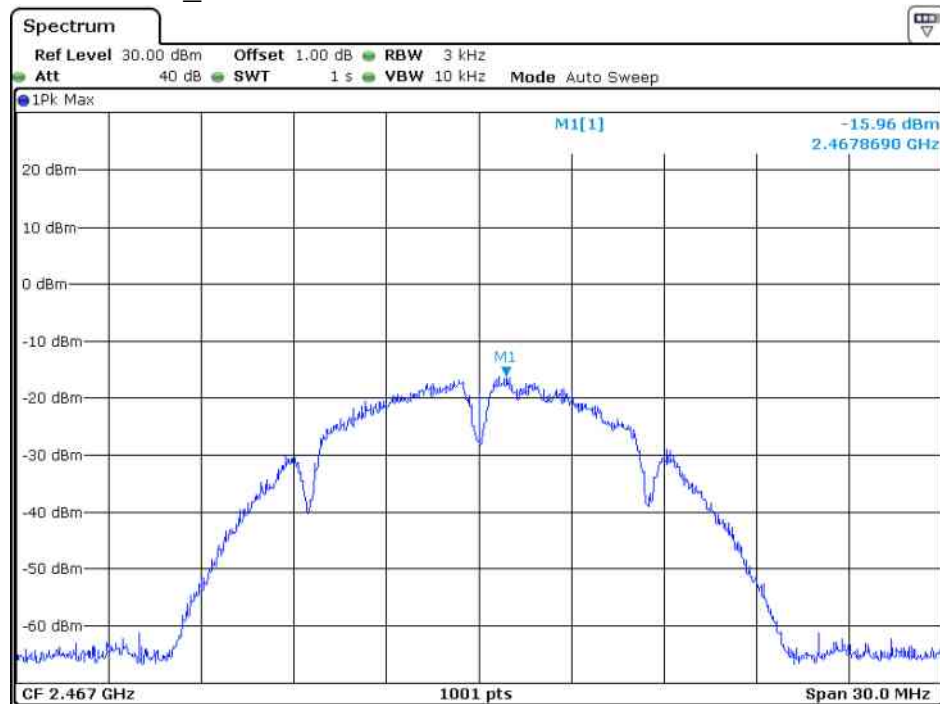
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2.6.2.4

802.11B_CH12



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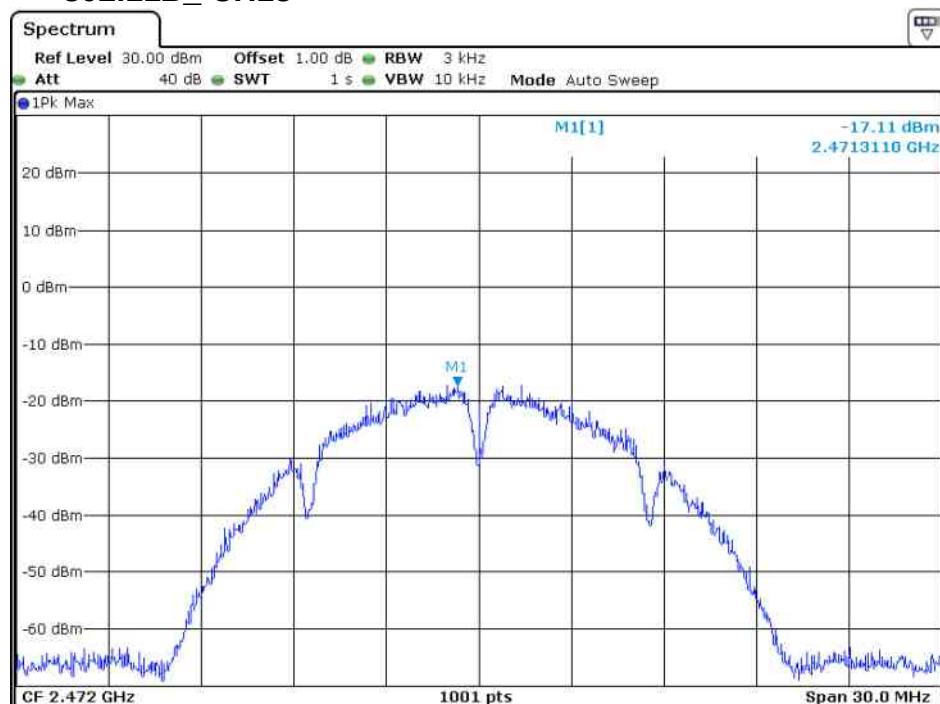
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2.6.2.5

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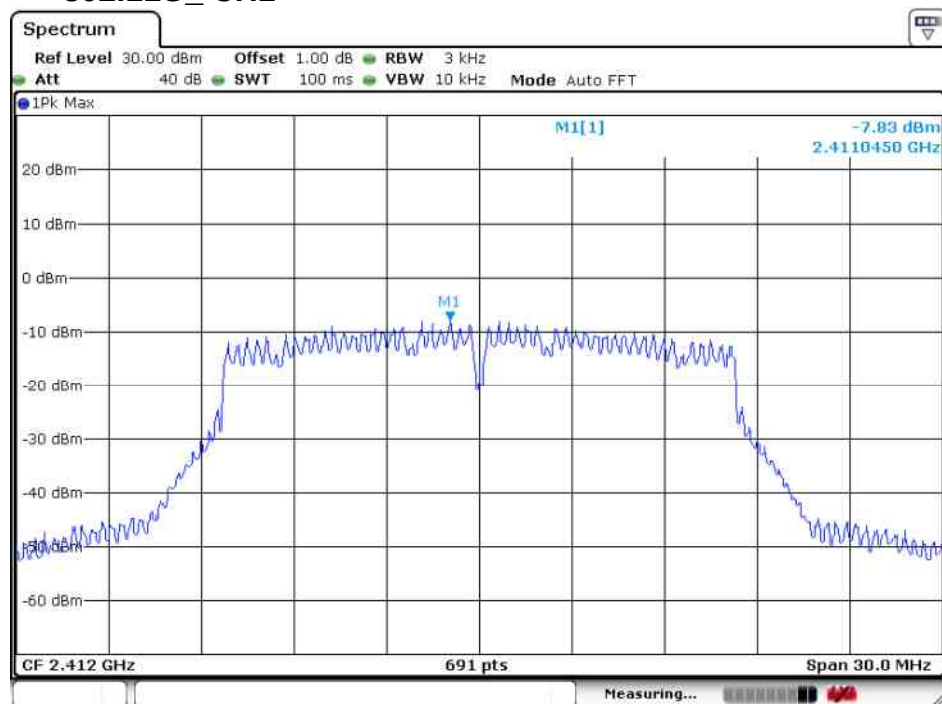
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2.6.2.6

802.11G_CH1



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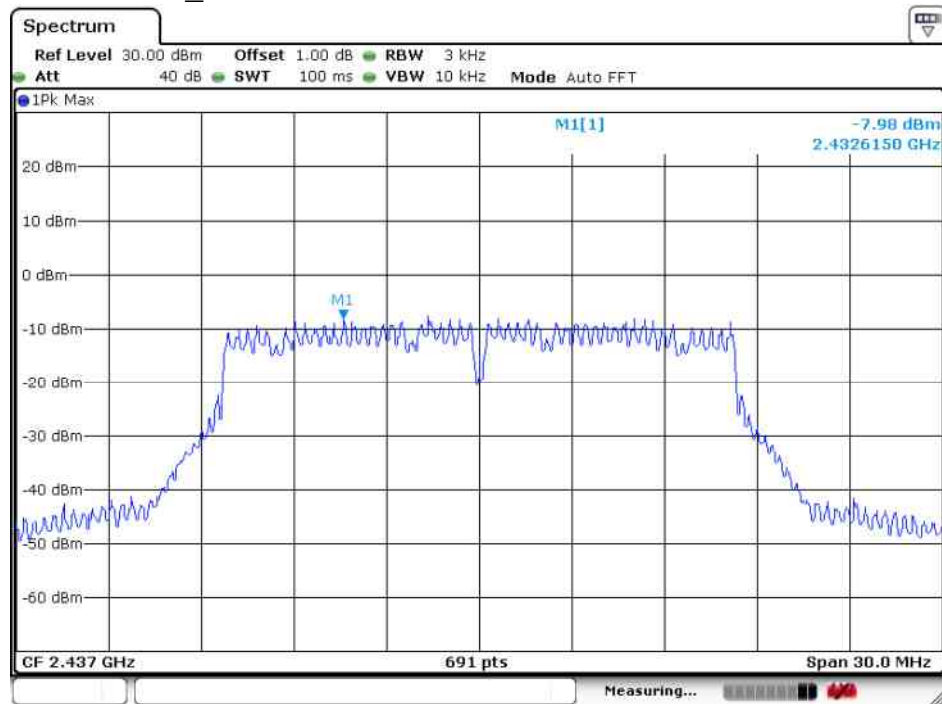
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2.6.2.7

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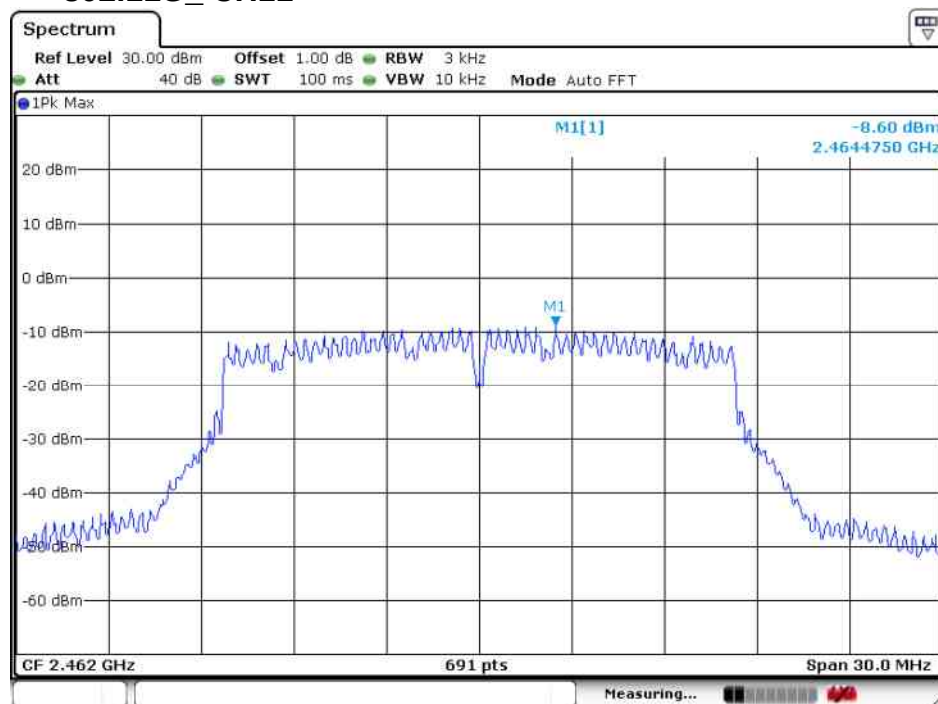
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2.6.2.8

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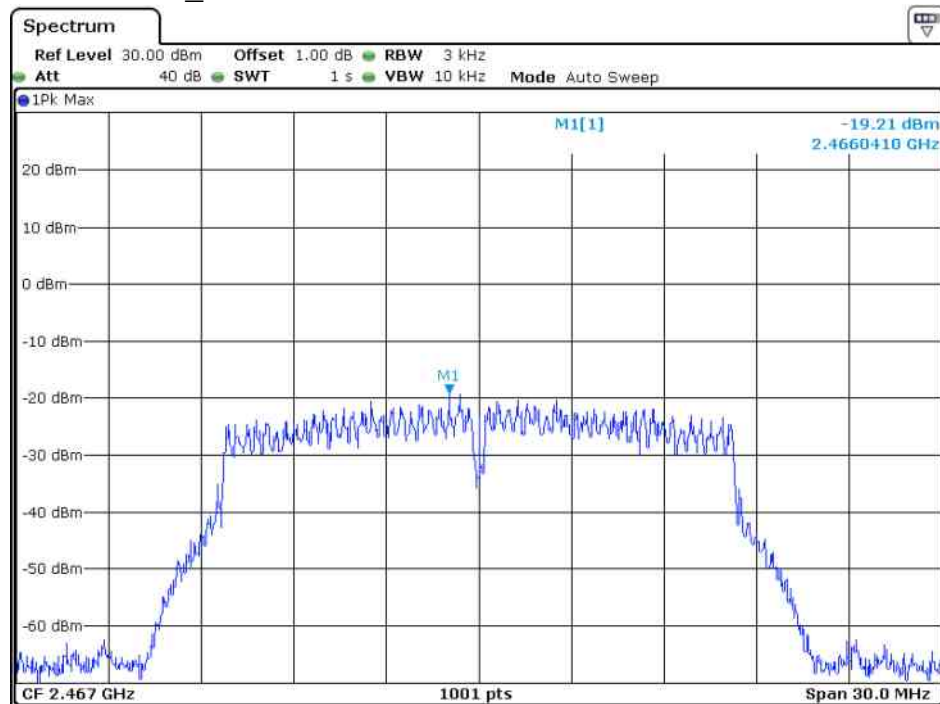
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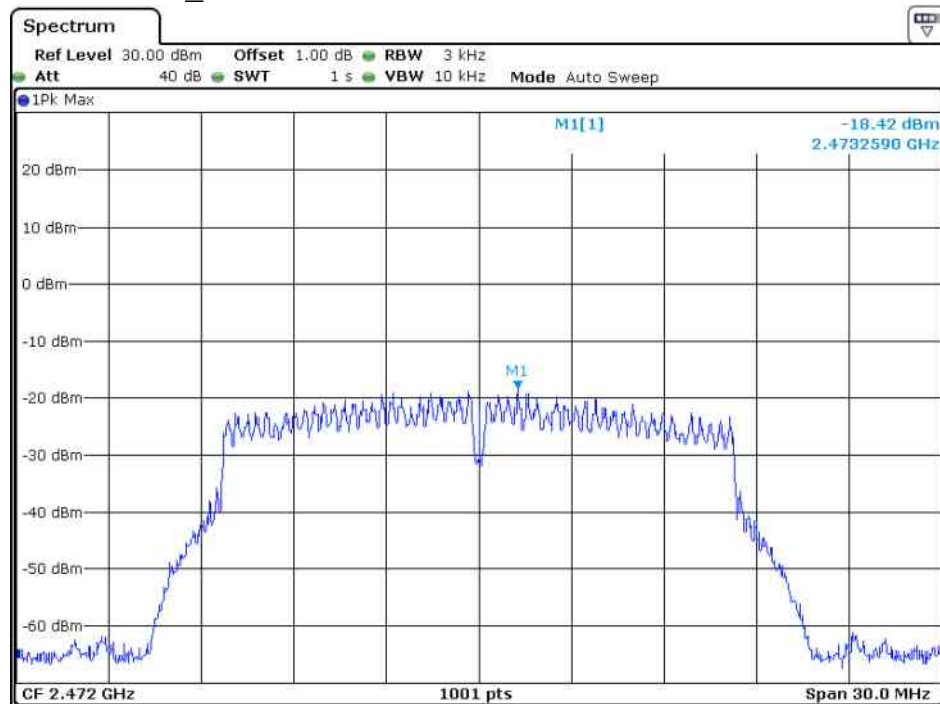
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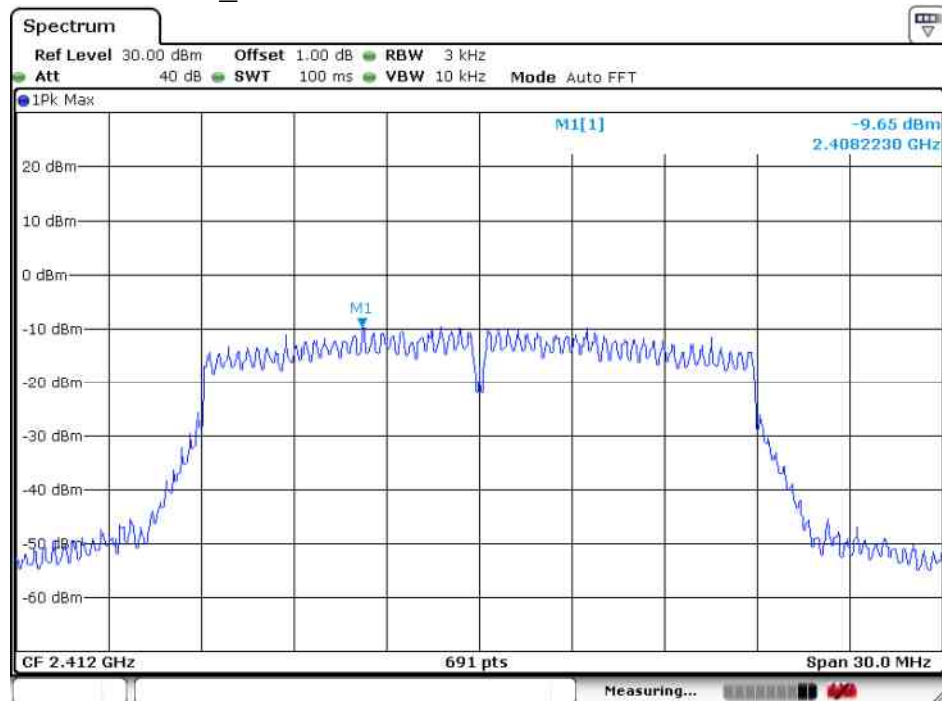
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2.6.2.11 802.11N20_ CH1



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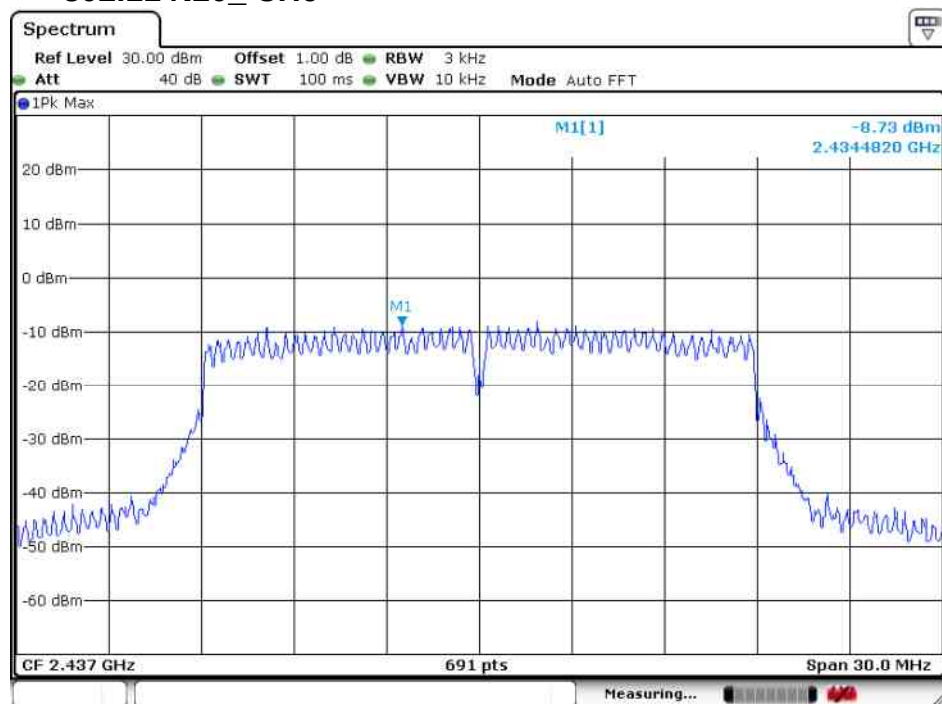
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2.6.2.12

802.11 N20_ CH6



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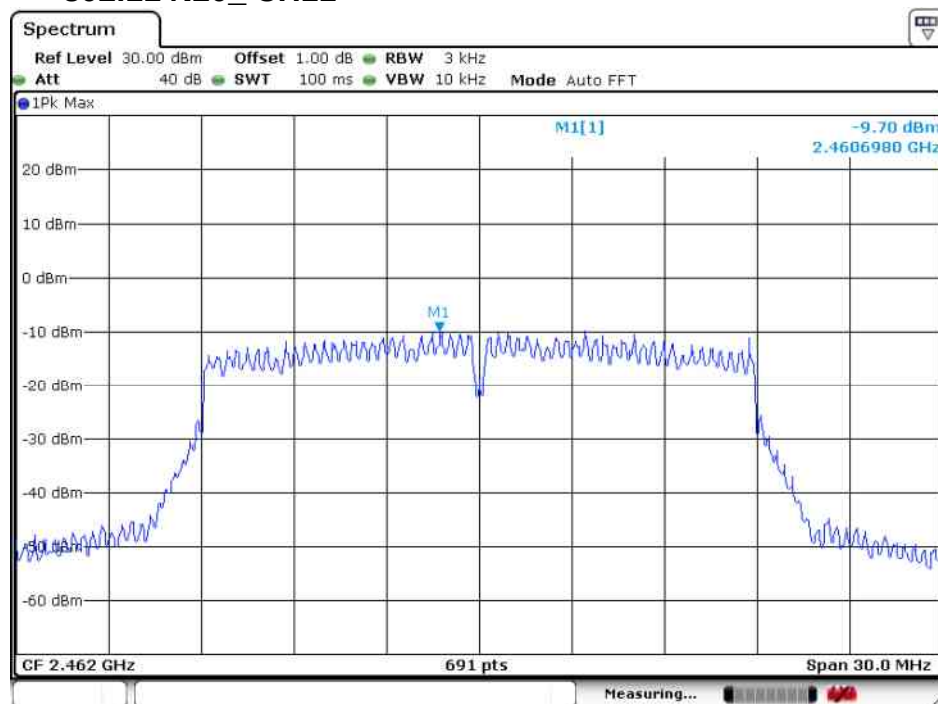
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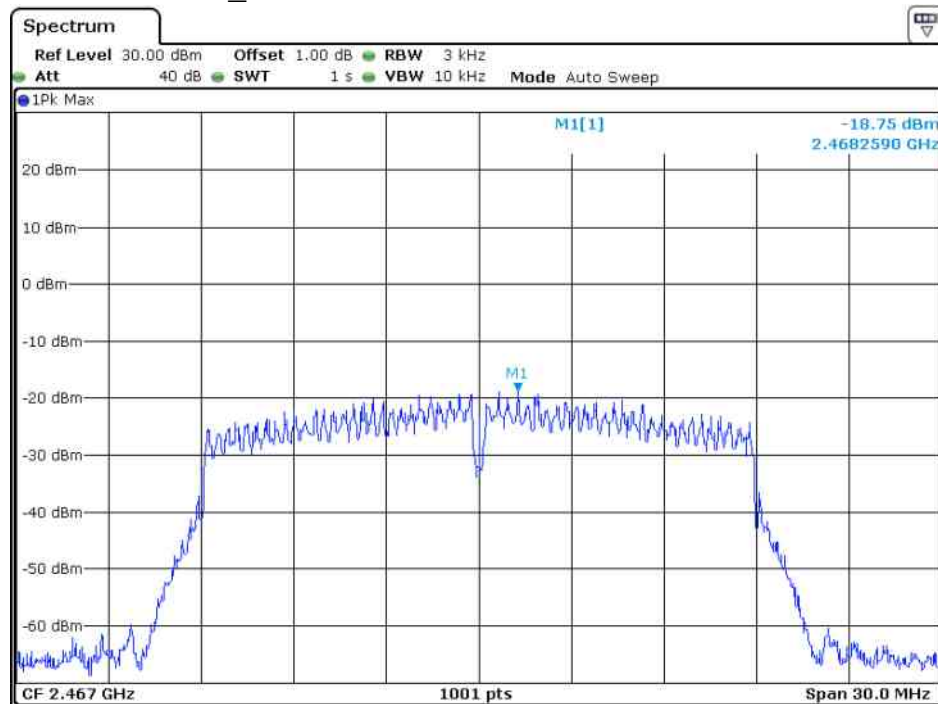
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2.6.2.14

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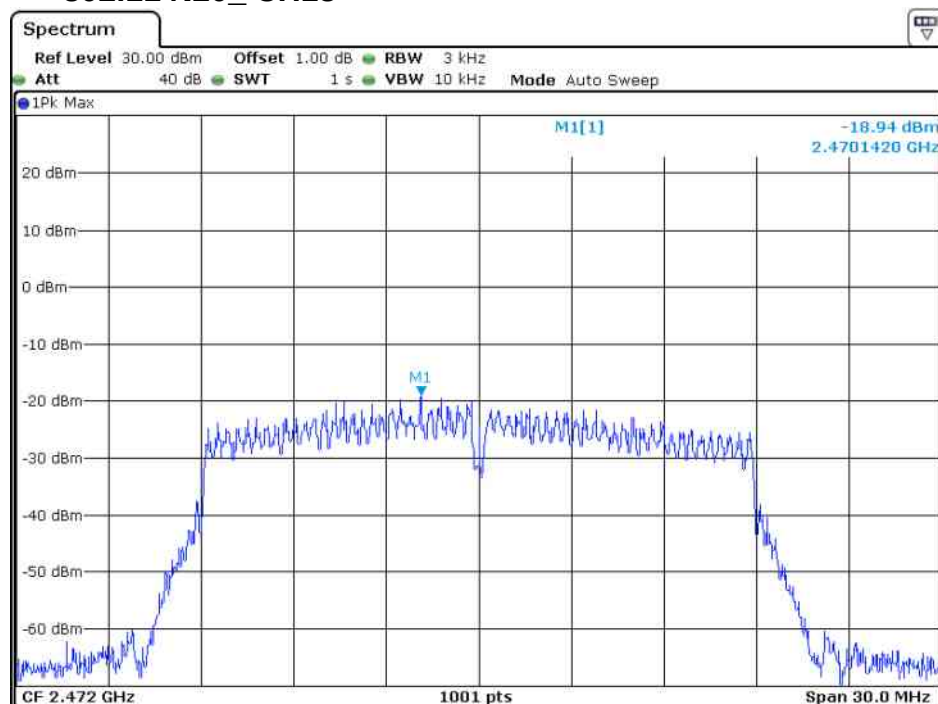
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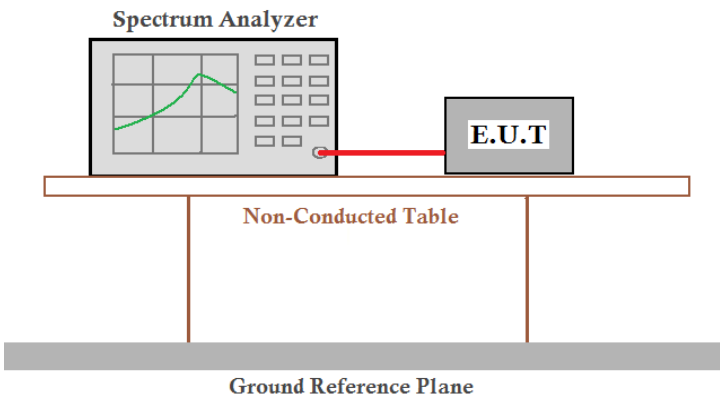
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2.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20) ;
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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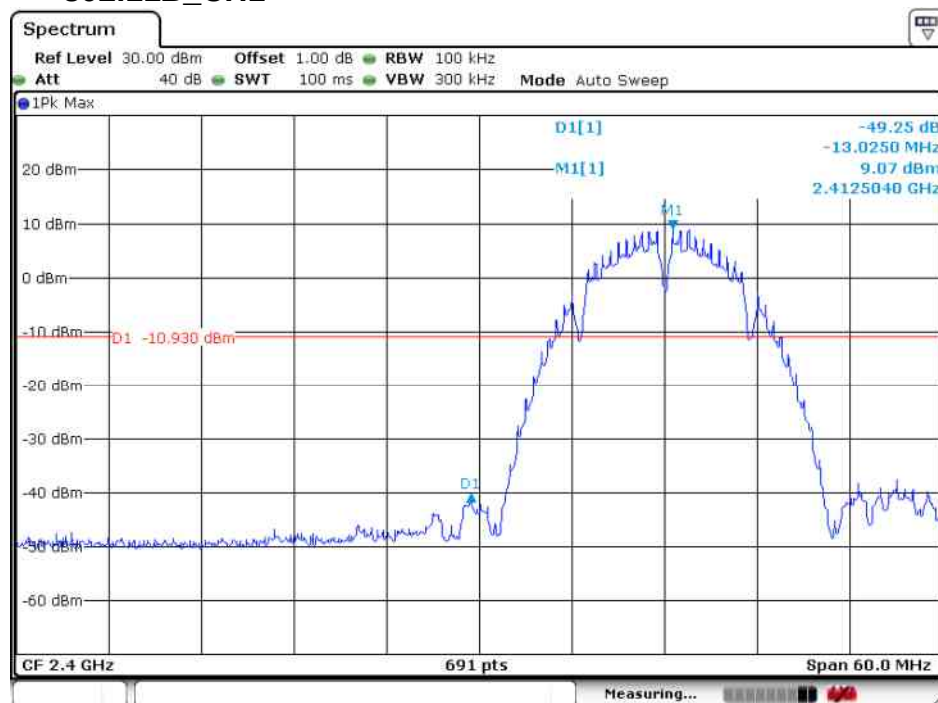
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2.7.1 Test plots

2.7.1.1 802.11B_CH1



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2.7.1.2

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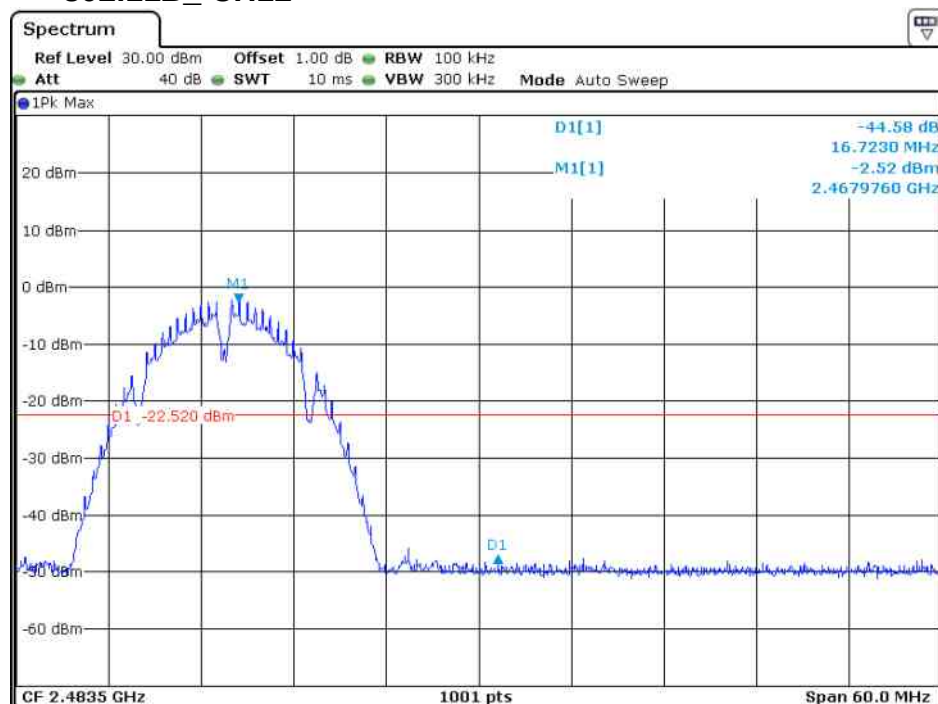
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2.7.1.3

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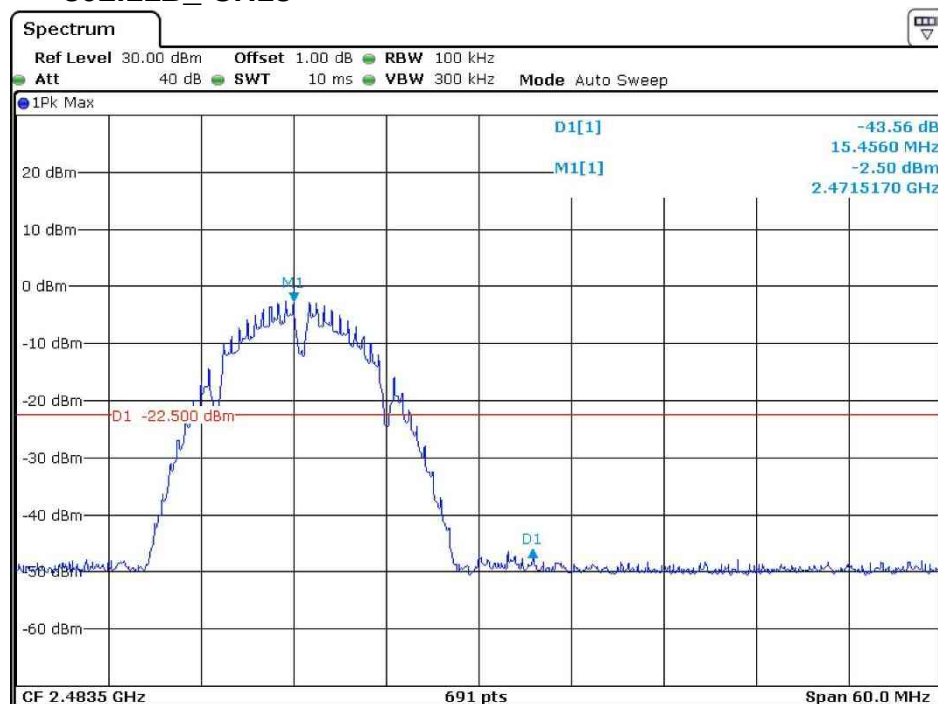
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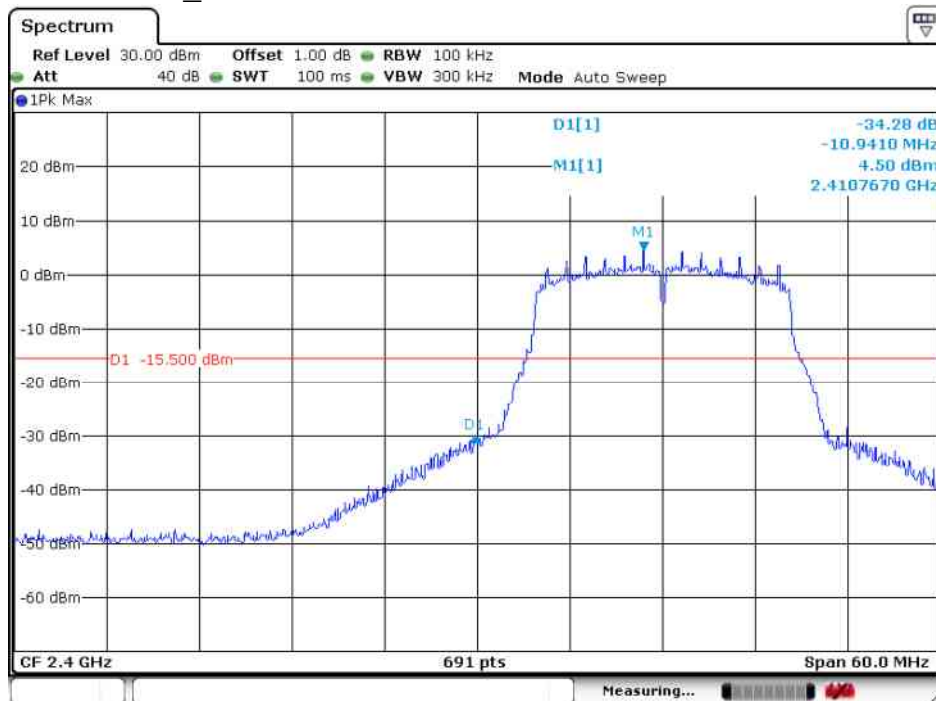
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2.7.1.5 802.11G_CH1



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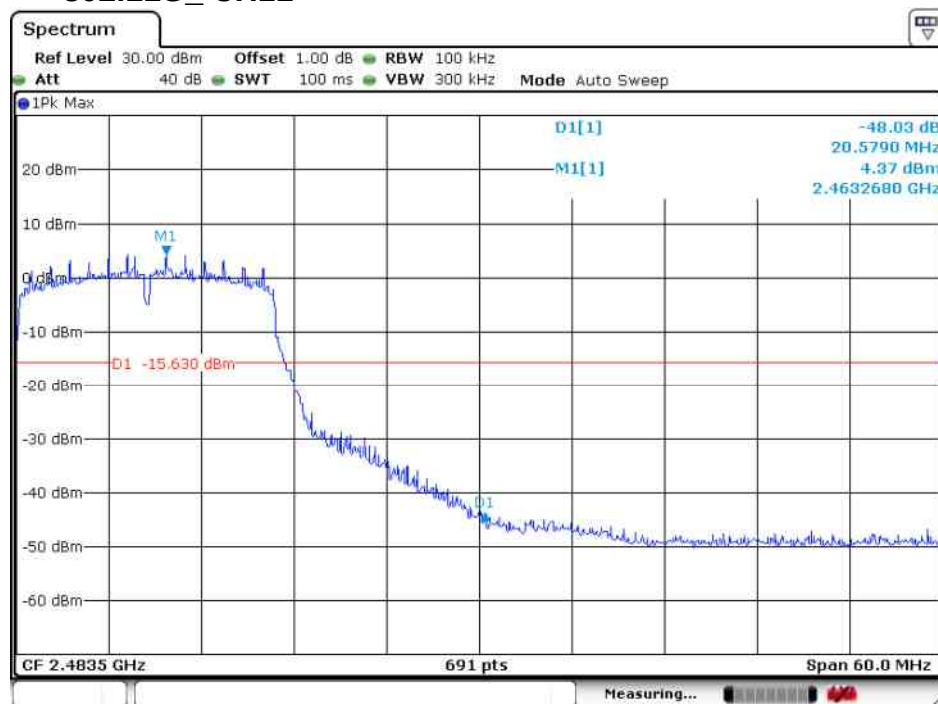
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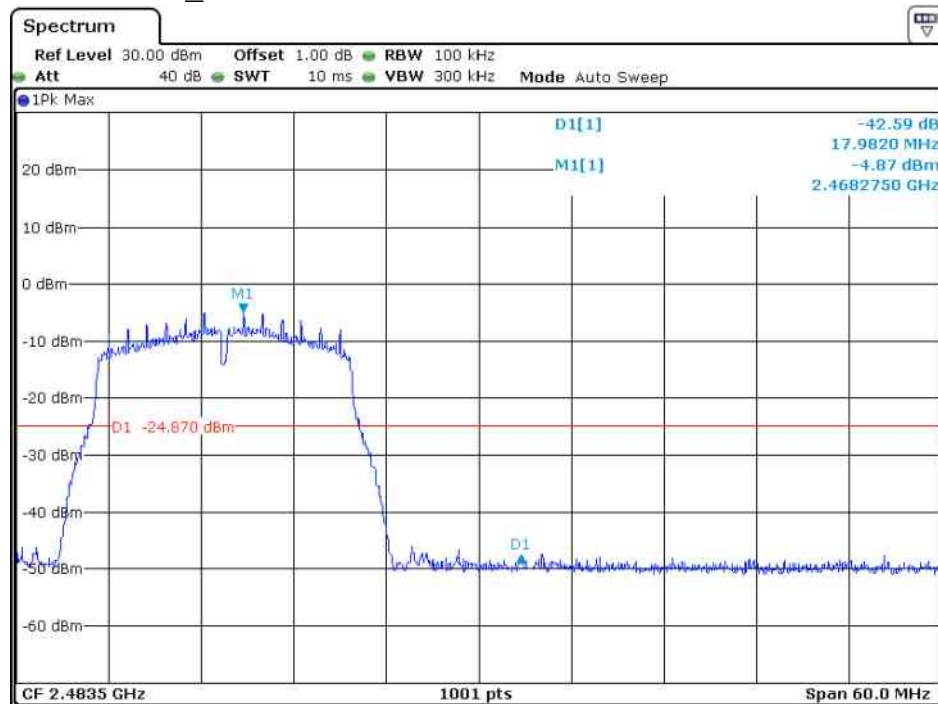
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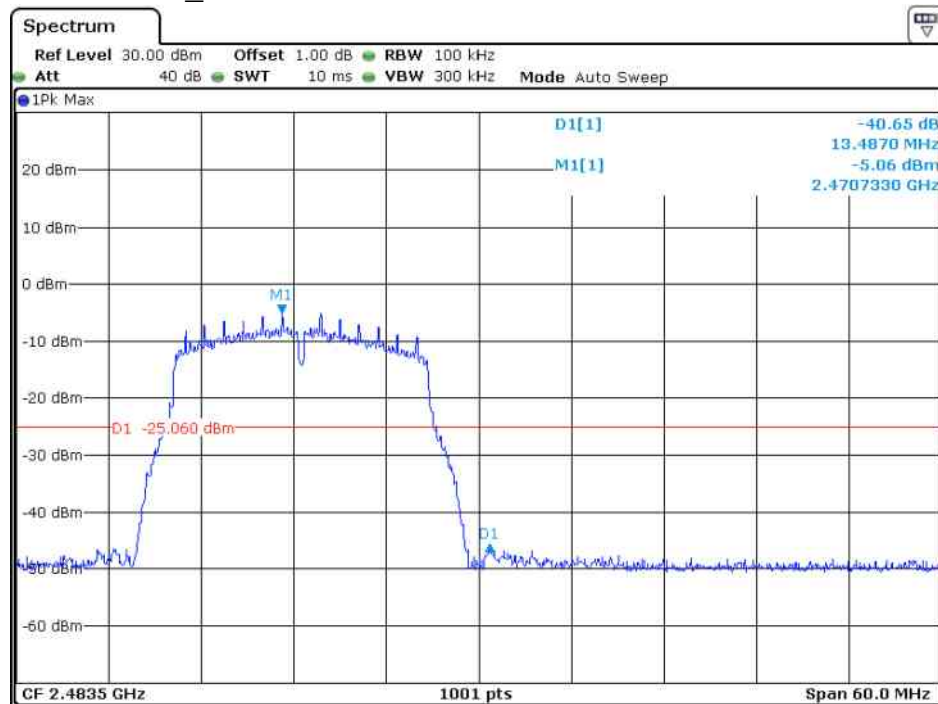
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2.7.1.8

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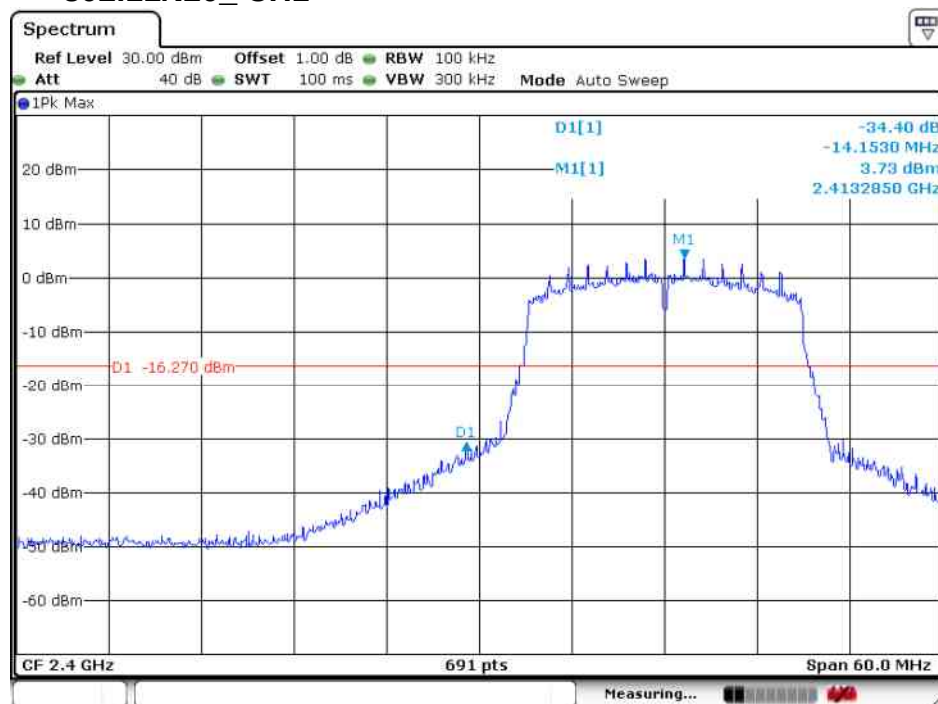
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2.7.1.9

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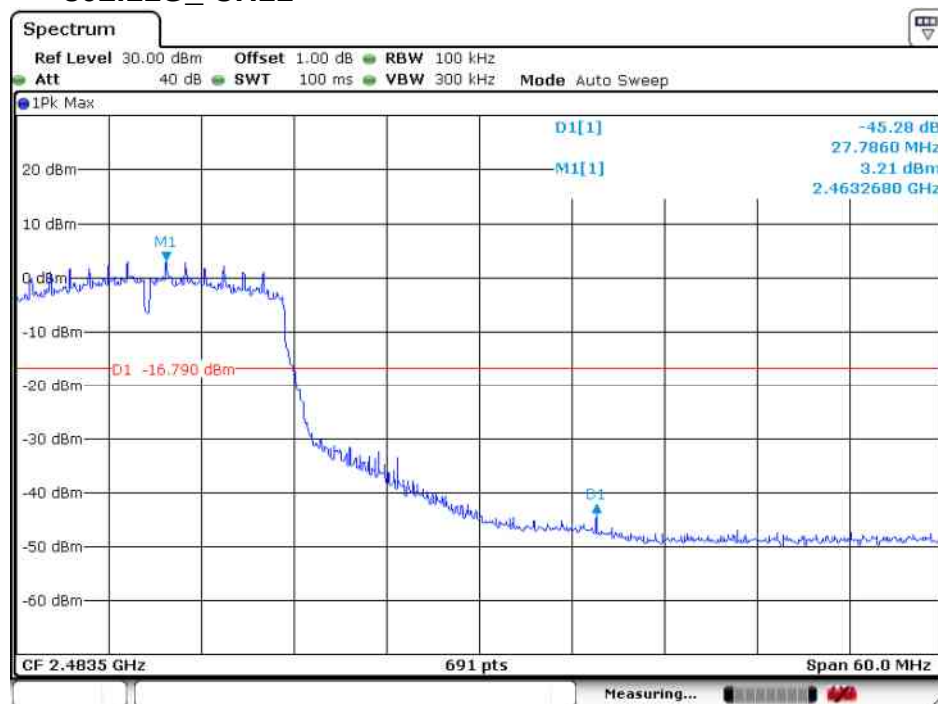
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2.7.1.10

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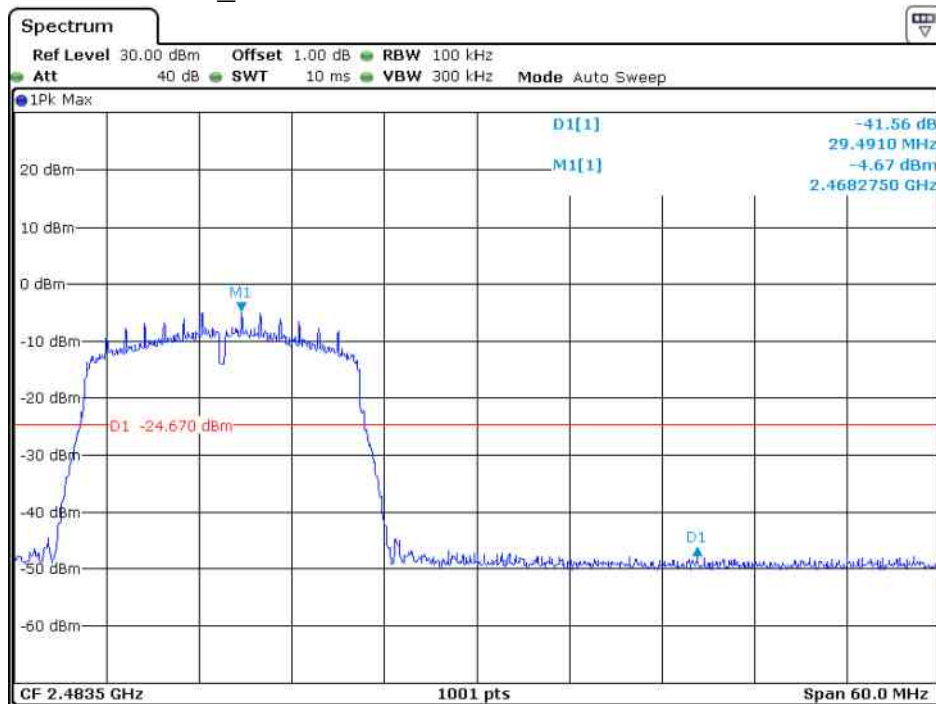
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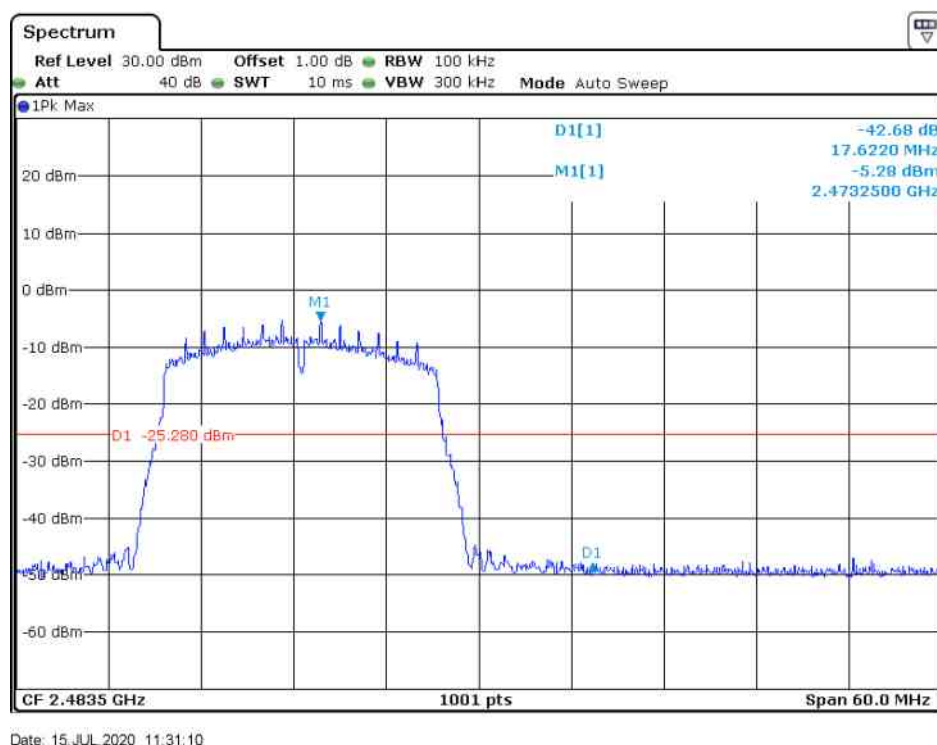
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2.7.1.12 802.11 N20_ CH13



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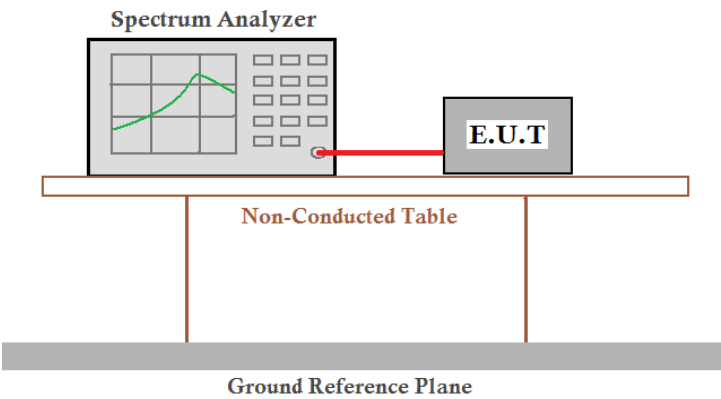
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2.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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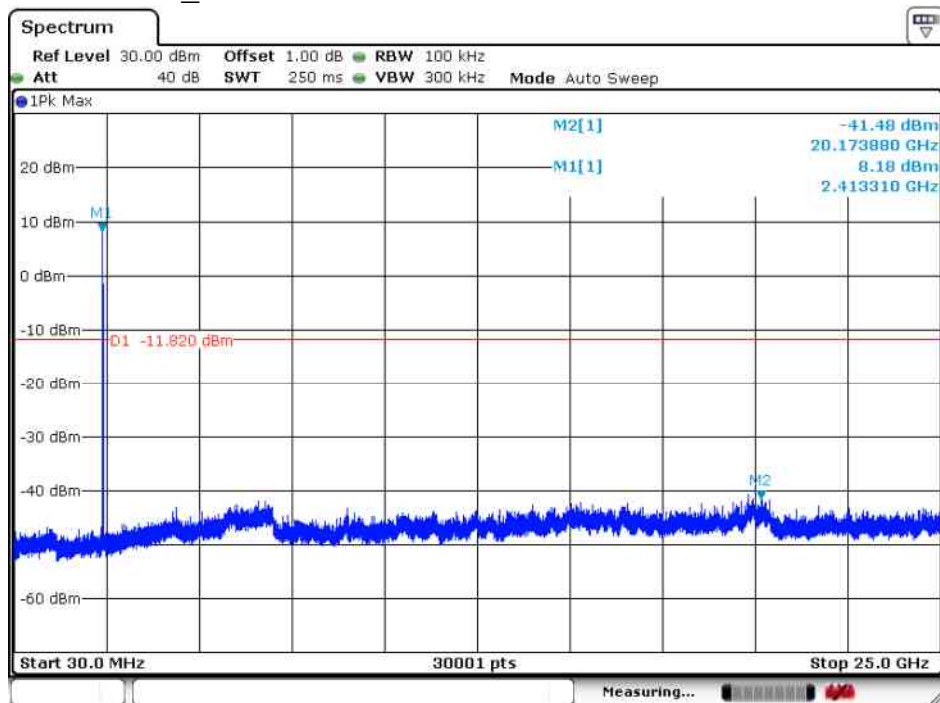
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2.8.1 Test plots

2.8.1.1 802.11B_CH1



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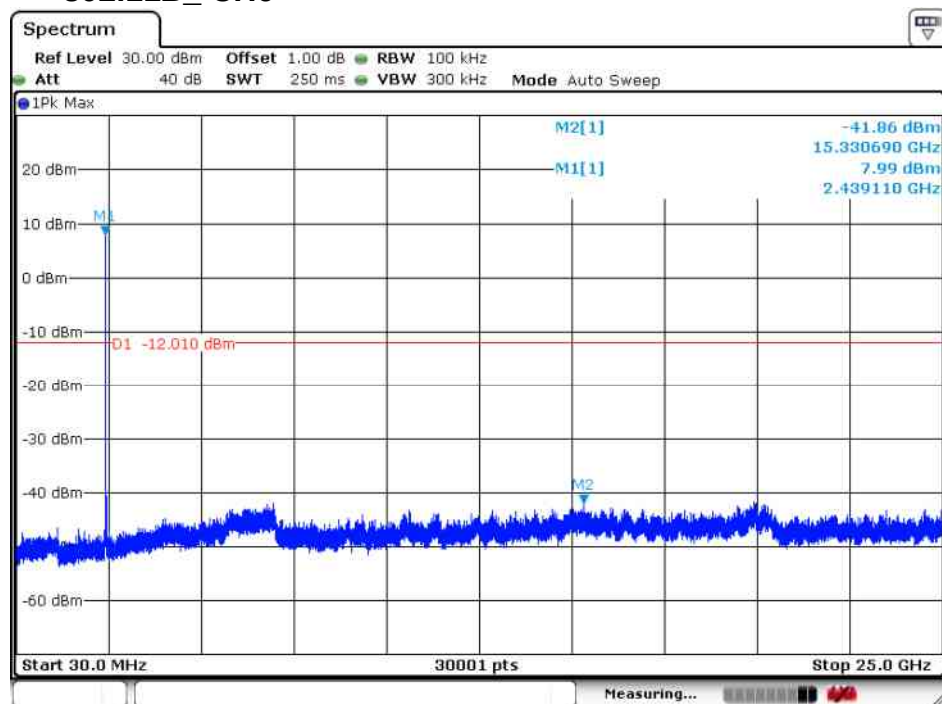
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2.8.1.2

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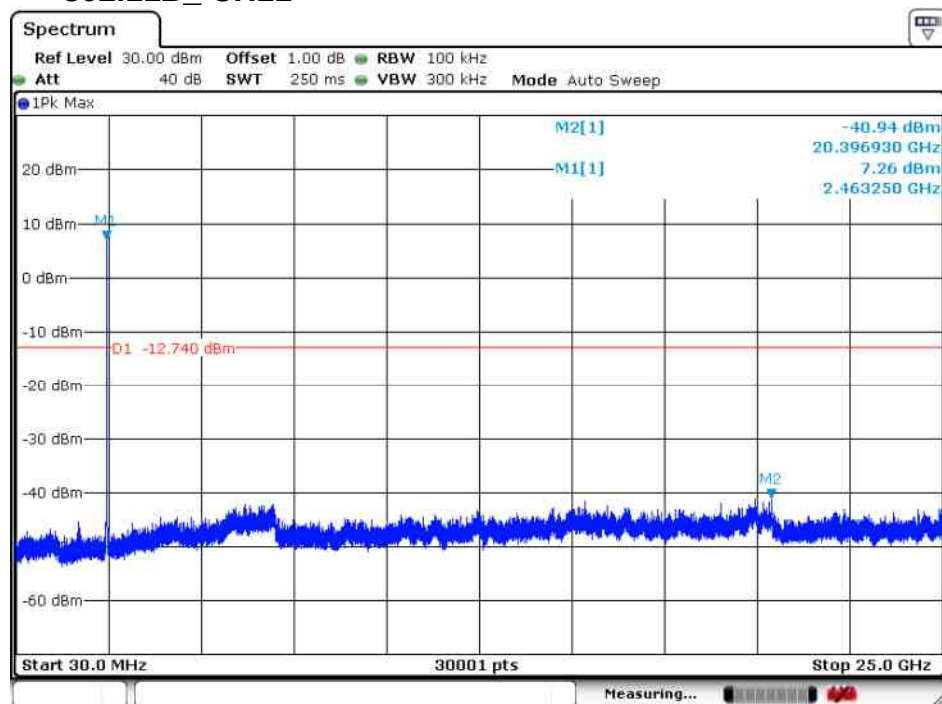
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2.8.1.3

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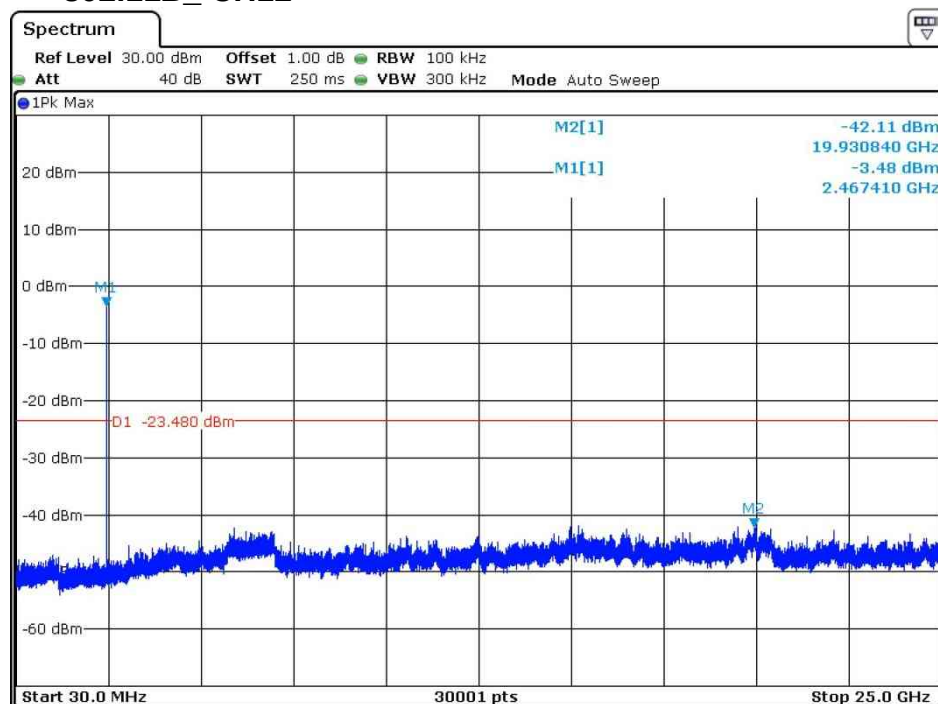
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2.8.1.4

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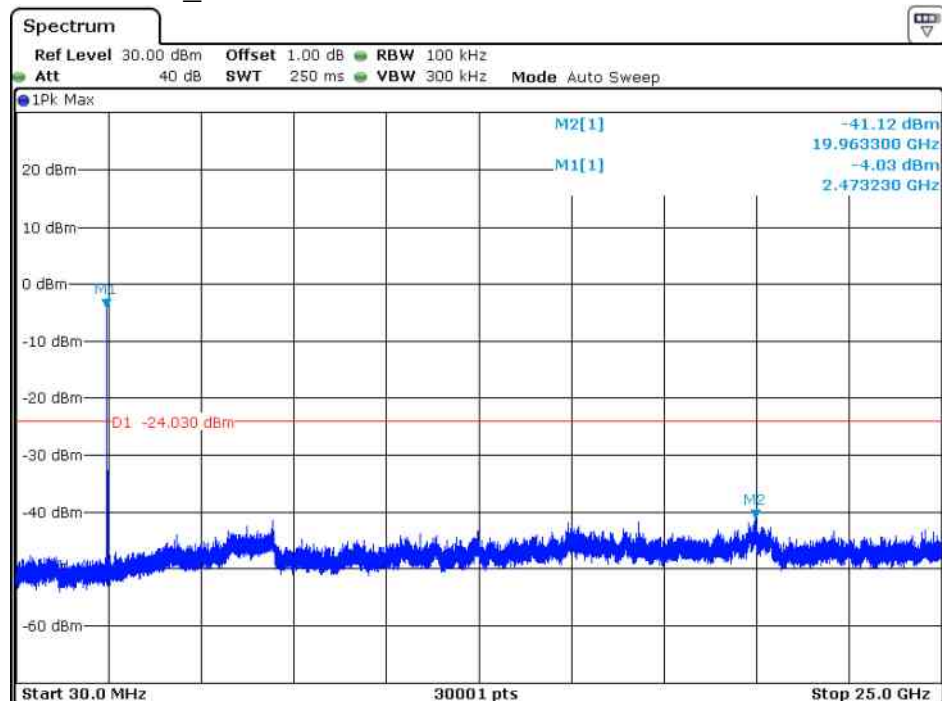
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2.8.1.5

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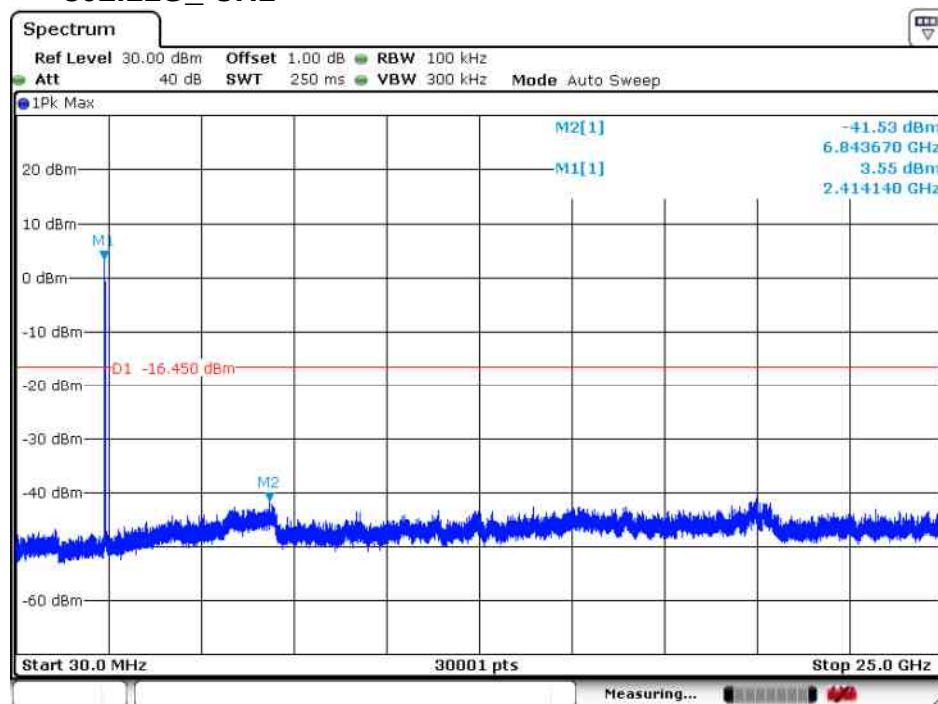
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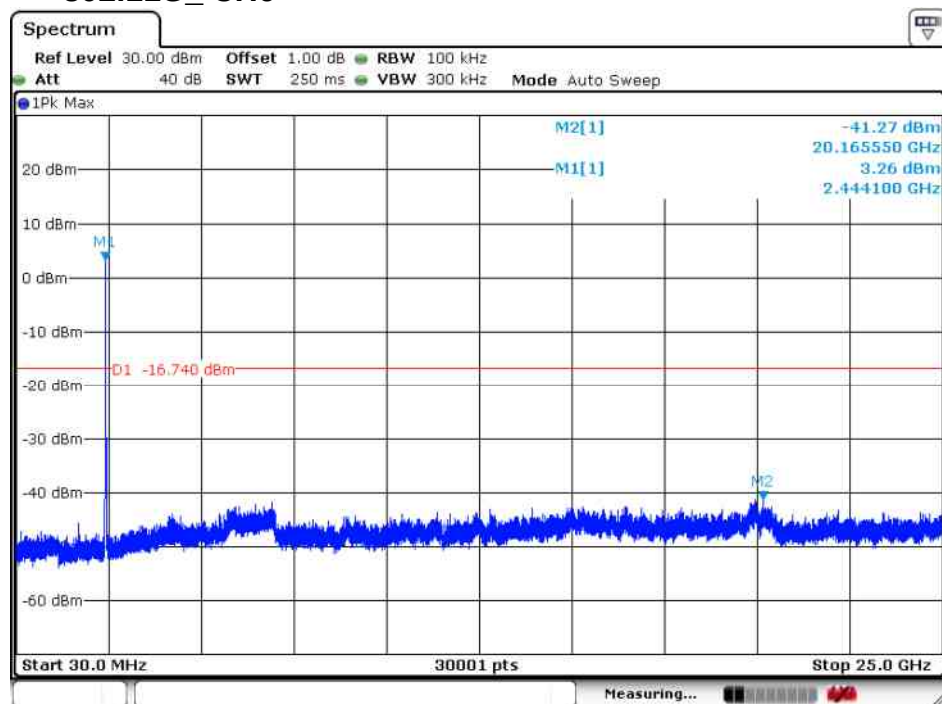
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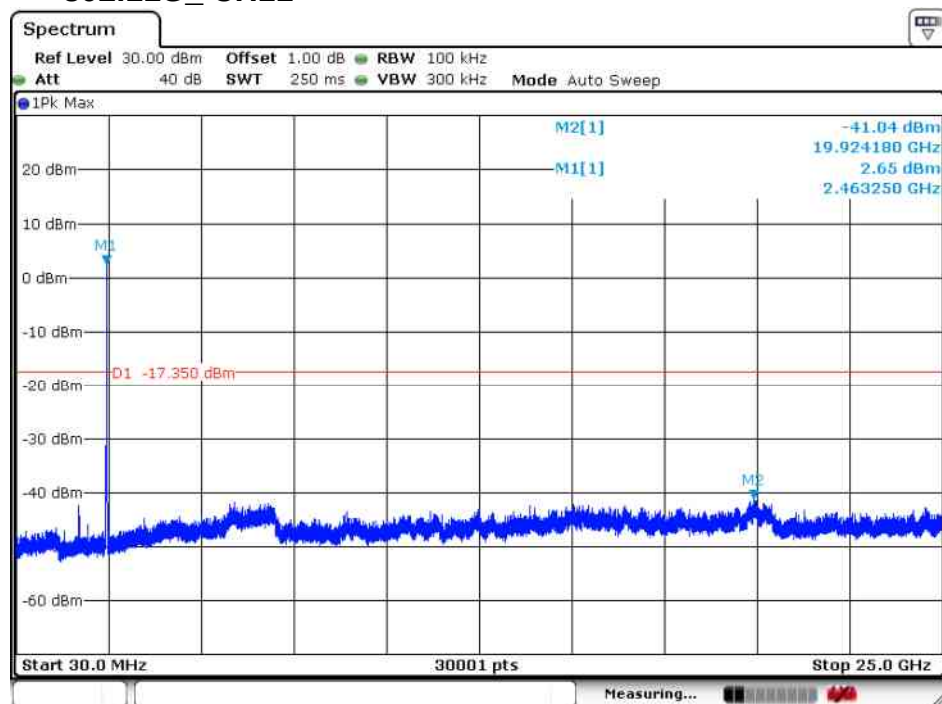
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2.8.1.8

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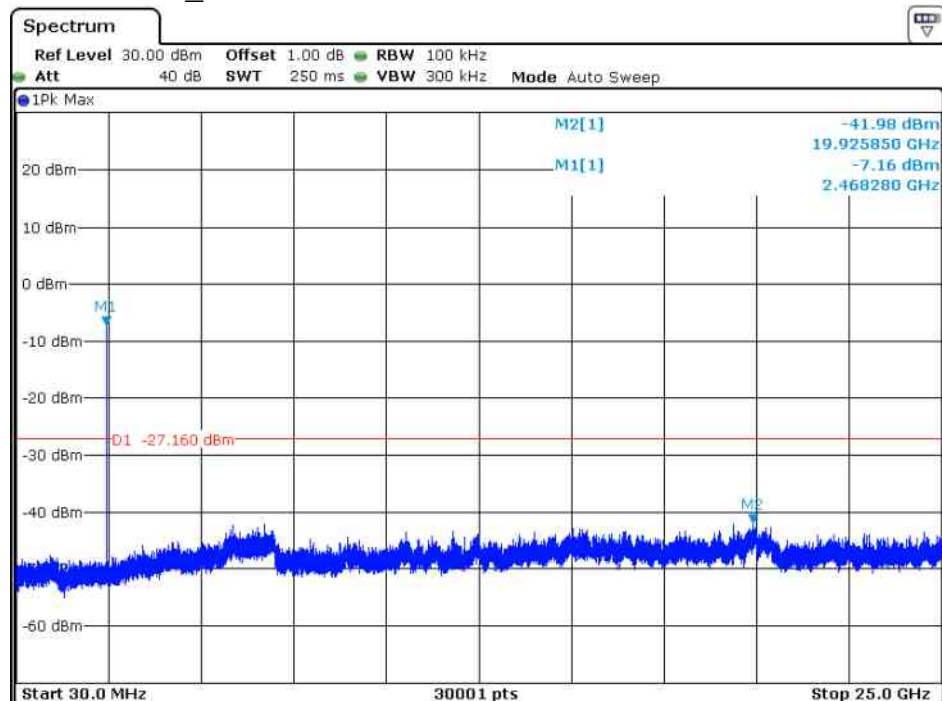
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2.8.1.9

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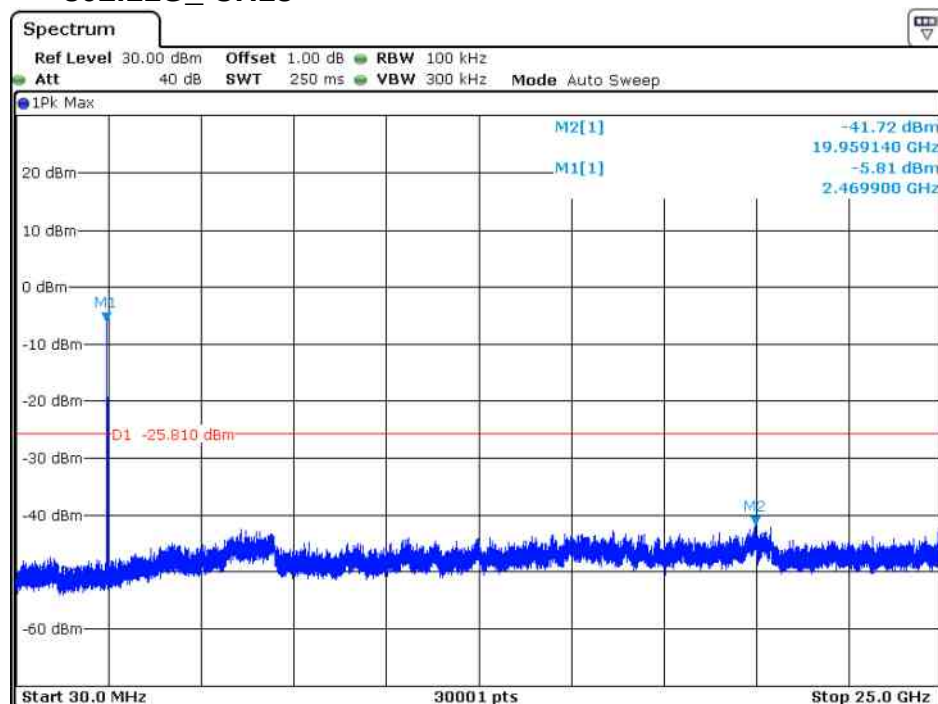
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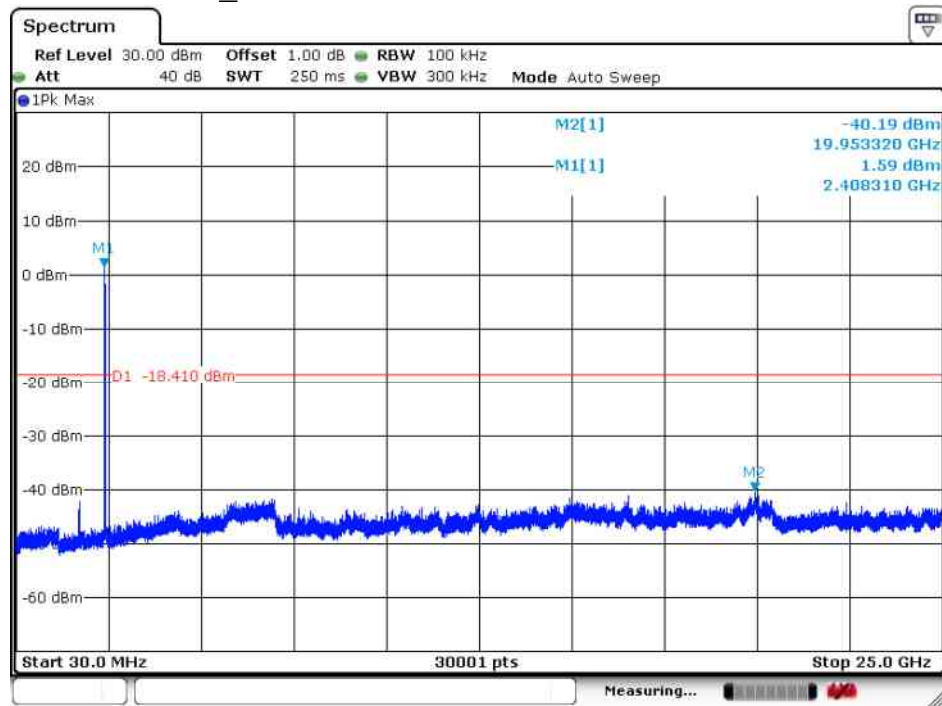
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2.8.1.11 802.11N20_ CH1



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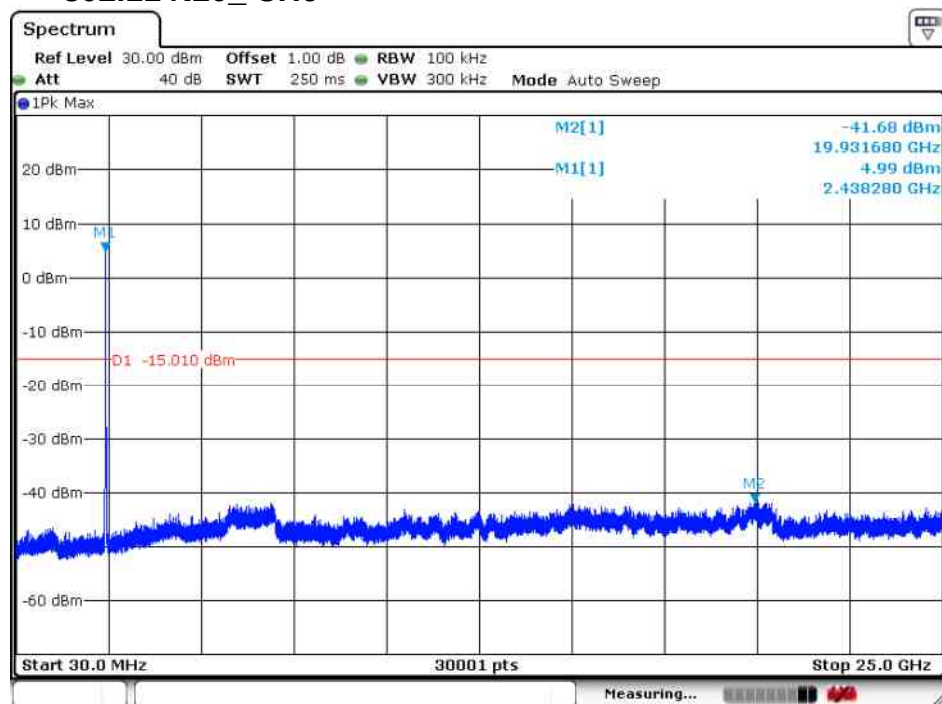
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802.11 N20_ CH6



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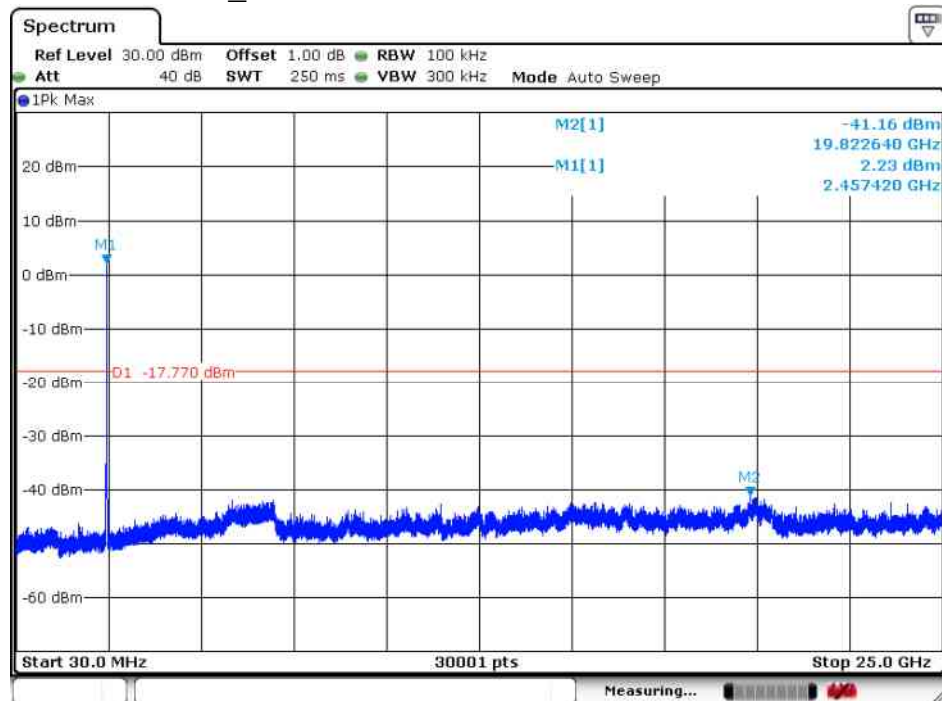
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2.8.1.13

802.11 N20_ CH11



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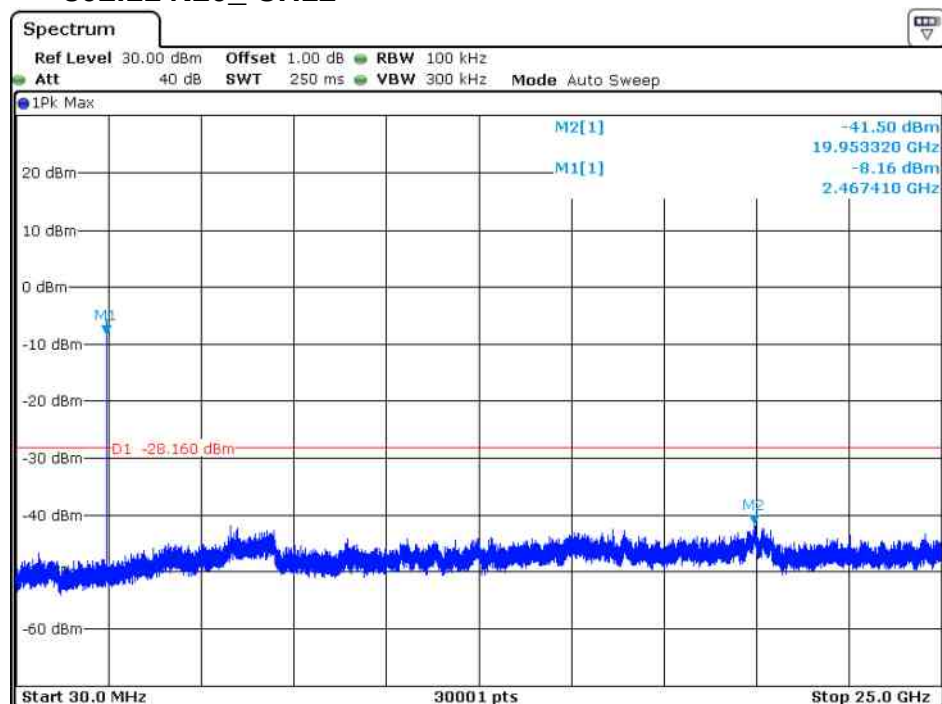
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2.8.1.14 802.11 N20_ CH12



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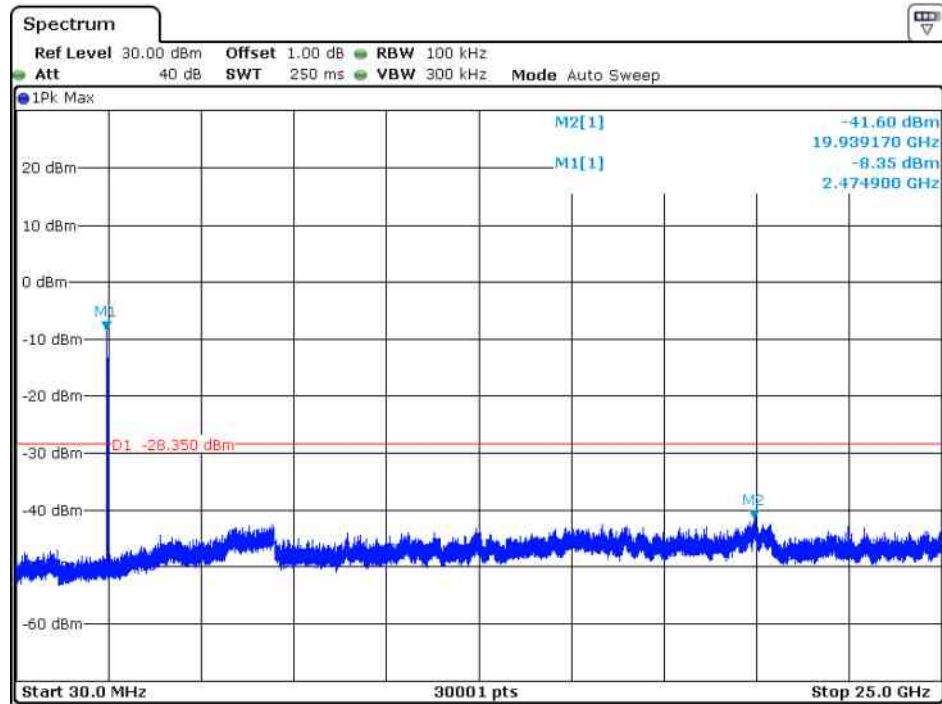
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2.8.1.15 802.11 N20_ CH13



Date: 15 JUL 2020 11:40:35

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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2.9 Radiated Spurious Emissions

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

Test Setup:	
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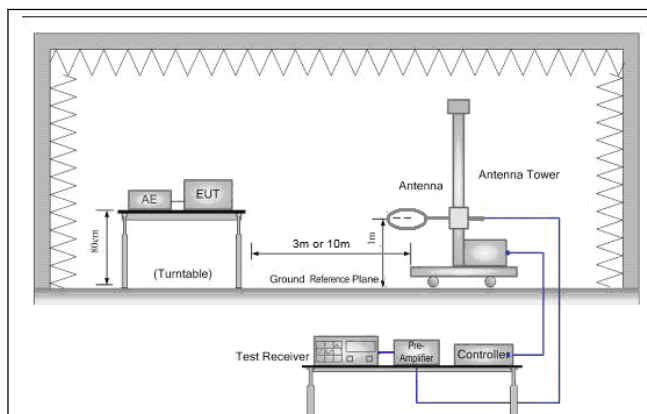


Figure 1. Below 30MHz

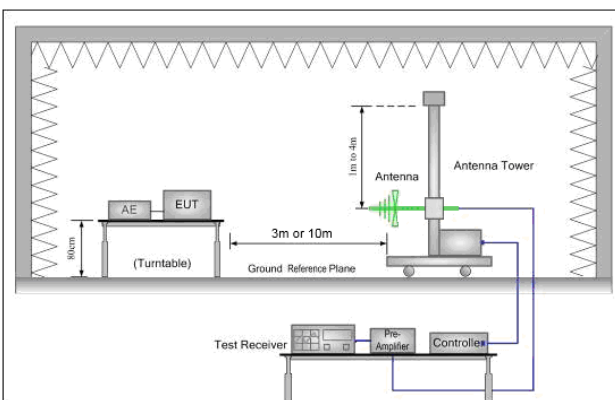


Figure 2. 30MHz to 1GHz

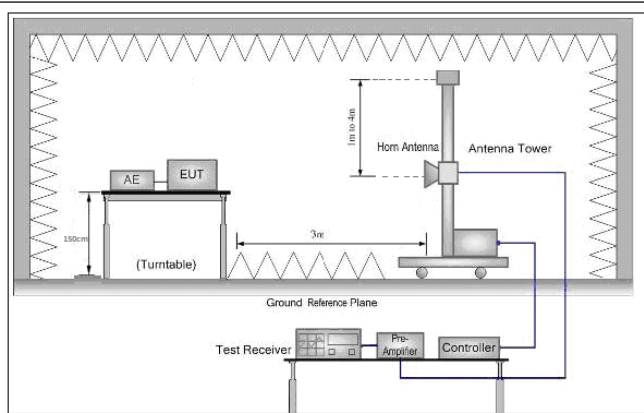


Figure 3. Above 1 GHz

Test Procedure:

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

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	g. 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. h. Test the EUT in the lowest channel,the middle 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); 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

2.9.1 Radiated emission below 1GHz

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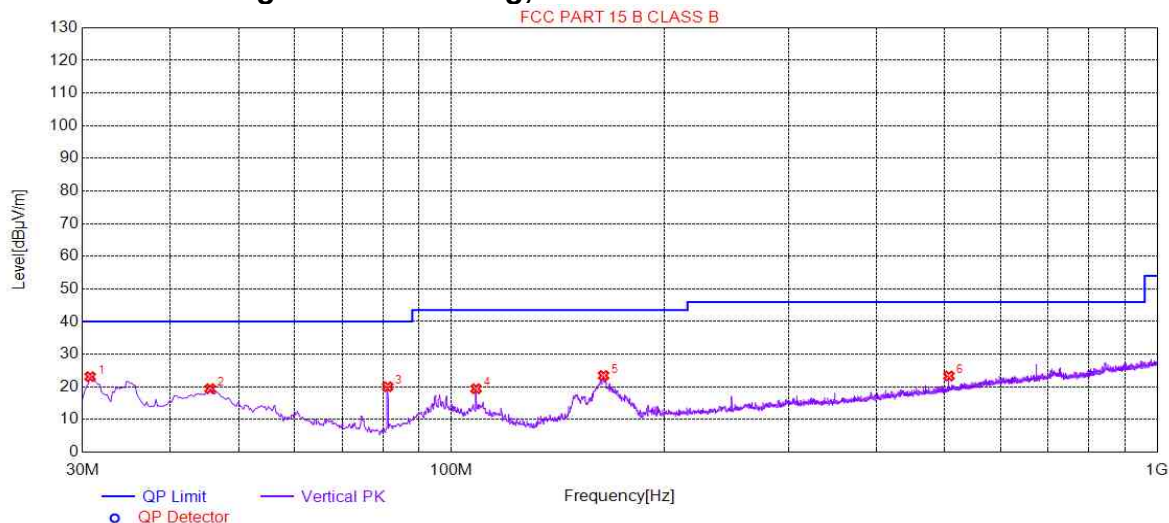
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2.9.1.1 Charge + Transmitting, Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.7762	23.13	-30.06	40.00	16.87	100	98	Vertical
2	45.5231	19.44	-30.42	40.00	20.56	100	270	Vertical
3	81.2262	20.05	-35.85	40.00	19.95	200	17	Vertical
4	108.391	19.43	-32.00	43.50	24.07	100	145	Vertical
5	164.274	23.47	-34.38	43.50	20.03	100	360	Vertical
6	506.947	23.34	-23.14	46.00	22.66	100	31	Vertical

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2.9.1.2 Charge + Transmitting, Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.8814	15.29	-30.40	40.00	24.71	200	271	Horizontal
2	81.2262	17.27	-35.85	40.00	22.73	200	20	Horizontal
3	108.391	20.47	-32.00	43.50	23.03	200	236	Horizontal
4	175.141	19.59	-33.65	43.50	23.91	100	49	Horizontal
5	309.609	20.59	-27.99	46.00	25.41	100	75	Horizontal
6	728.927	26.94	-18.83	46.00	19.06	100	247	Horizontal

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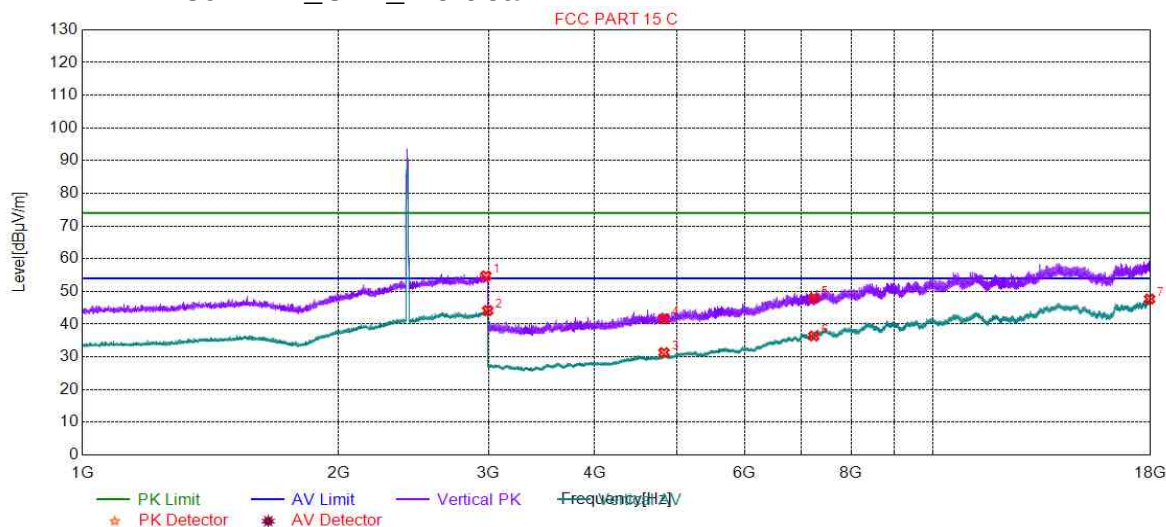
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2.9.2 Transmitter emission above 1GHz

2.9.2.1 802.11B_CH1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	54.77	9.54	74.00	19.23	150	30	Vertical
2	2994.99	44.16	9.47	54.00	9.84	150	262	Vertical
3	4824.00	31.33	-18.21	54.00	22.67	150	210	Vertical
4	4824.00	41.64	-18.21	74.00	32.36	150	155	Vertical
5	7236.00	47.99	-9.99	74.00	26.01	150	242	Vertical
6	7236.00	36.38	-9.99	54.00	17.62	150	342	Vertical
7	17948.8	47.70	0.70	54.00	6.30	150	291	Vertical

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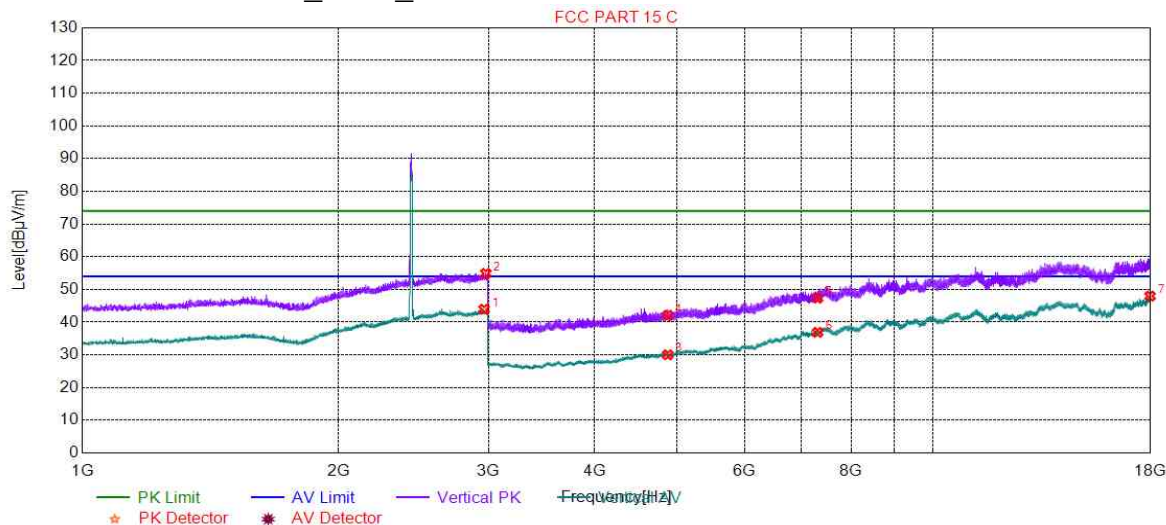
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2.9.2.2 802.11B_ CH6_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.99	43.97	9.61	54.00	10.03	150	10	Vertical
2	2979.49	54.93	9.54	74.00	19.07	150	190	Vertical
3	4874.00	30.02	-17.99	54.00	23.98	150	155	Vertical
4	4874.00	42.11	-17.99	74.00	31.89	150	320	Vertical
5	7311.00	47.35	-9.74	74.00	26.65	150	140	Vertical
6	7311.00	36.90	-9.74	54.00	17.10	150	39	Vertical
7	17973.0	47.97	0.71	54.00	6.03	150	0	Vertical

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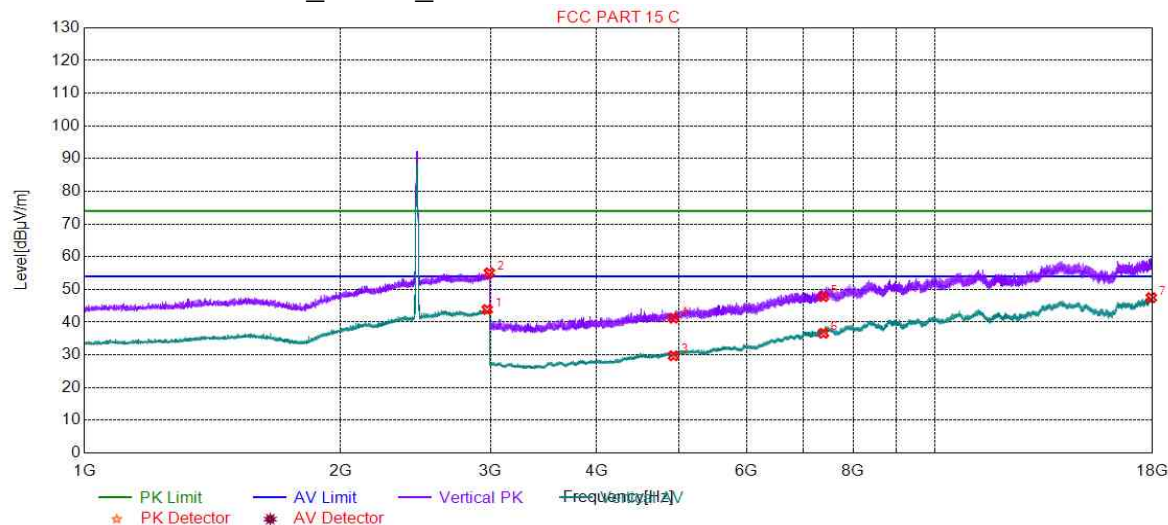
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2.9.2.3 802.11B_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.49	43.87	9.57	54.00	10.13	150	13	Vertical
2	2991.49	55.09	9.49	74.00	18.91	150	136	Vertical
3	4924.00	29.74	-17.72	54.00	24.26	150	238	Vertical
4	4924.00	41.24	-17.72	74.00	32.76	150	73	Vertical
5	7386.00	47.82	-9.55	74.00	26.18	150	292	Vertical
6	7386.00	36.61	-9.55	54.00	17.39	150	0	Vertical
7	17935.0	47.50	0.70	54.00	6.50	150	292	Vertical

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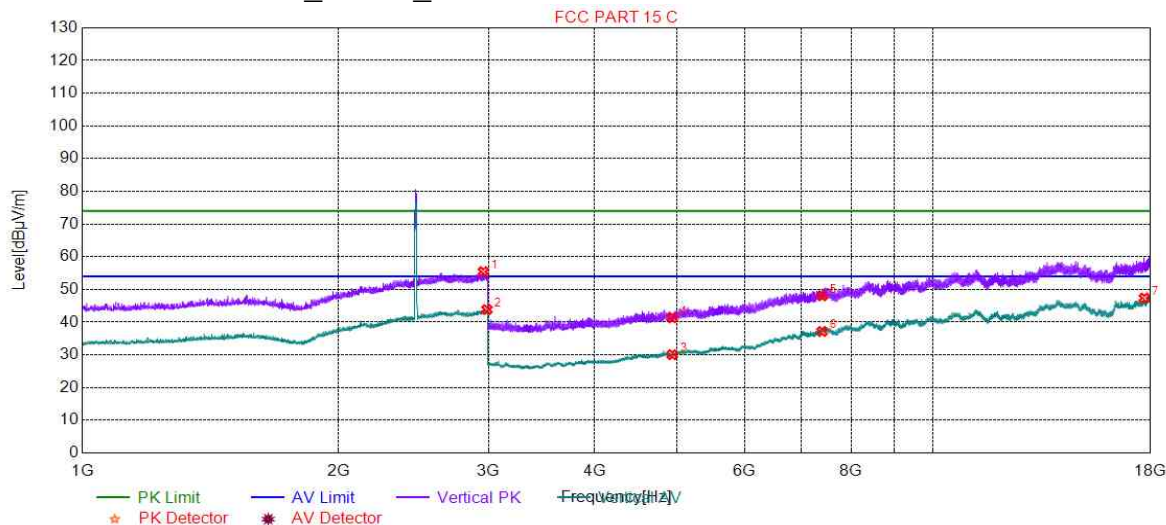
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2.9.2.4 802.11B_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.98	55.47	9.64	74.00	18.53	150	38	Vertical
2	2988.49	43.85	9.50	54.00	10.15	150	259	Vertical
3	4934.00	30.07	-17.65	54.00	23.93	150	76	Vertical
4	4934.00	41.35	-17.65	74.00	32.65	150	142	Vertical
5	7401.00	48.06	-9.50	74.00	25.94	150	42	Vertical
6	7401.00	37.16	-9.50	54.00	16.84	150	42	Vertical
7	17700.7	47.39	1.34	54.00	6.61	150	192	Vertical

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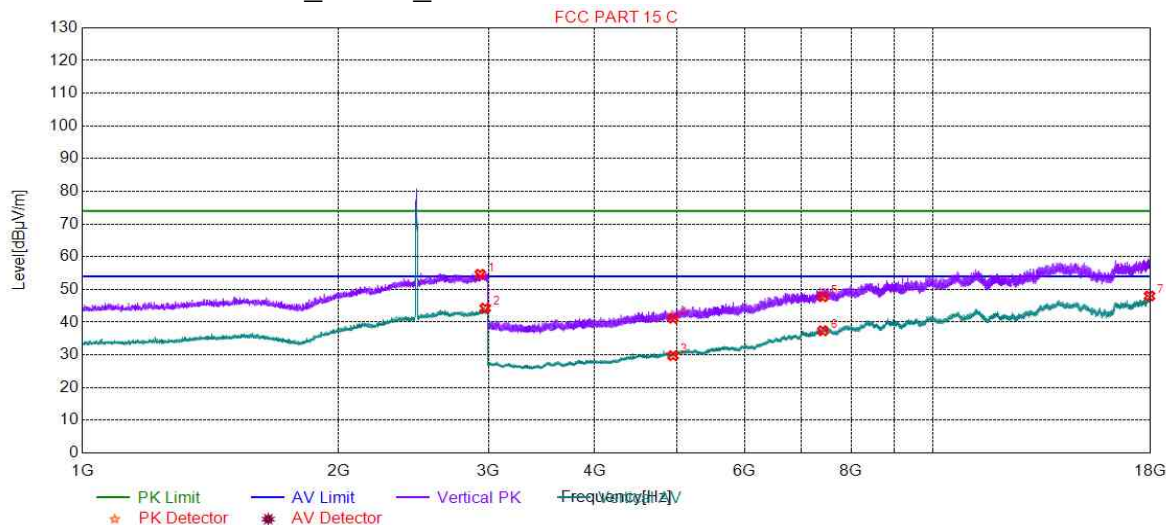
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2.9.2.5 802.11B_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2933.98	54.66	9.51	74.00	19.34	150	26	Vertical
2	2974.49	44.29	9.57	54.00	9.71	150	2	Vertical
3	4944.00	29.76	-17.58	54.00	24.24	150	18	Vertical
4	4944.00	41.21	-17.58	74.00	32.79	150	211	Vertical
5	7416.00	47.78	-9.44	74.00	26.22	150	40	Vertical
6	7416.00	37.37	-9.44	54.00	16.63	150	342	Vertical
7	17949.3	48.01	0.70	54.00	5.99	150	90	Vertical

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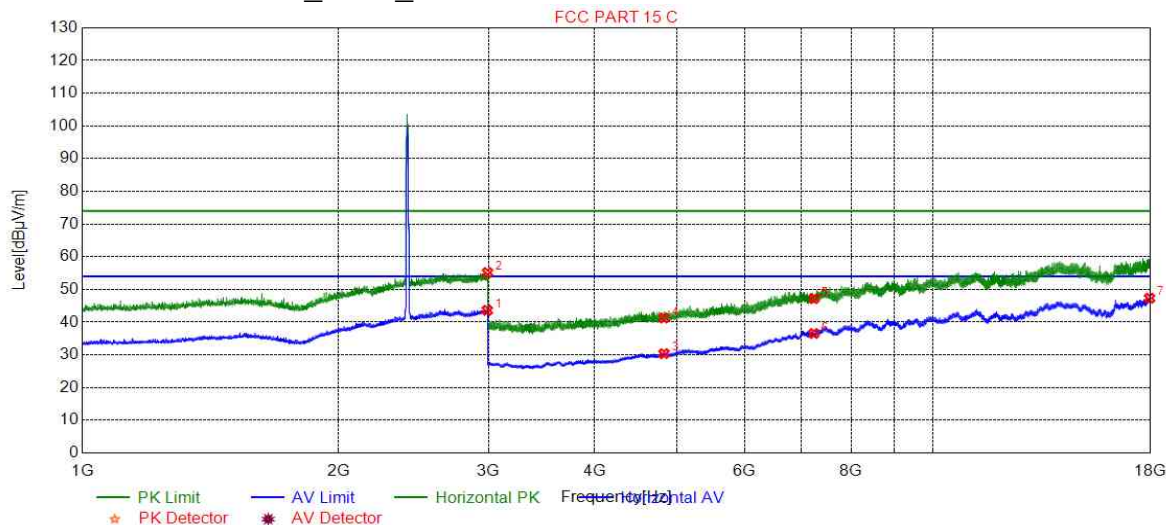
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2.9.2.6 802.11B_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.99	43.64	9.49	54.00	10.36	150	46	Horizontal
2	2992.99	55.18	9.48	74.00	18.82	150	46	Horizontal
3	4824.00	30.39	-18.21	54.00	23.61	150	346	Horizontal
4	4824.00	41.26	-18.21	74.00	32.74	150	360	Horizontal
5	7236.00	47.22	-9.99	74.00	26.78	150	291	Horizontal
6	7236.00	36.55	-9.99	54.00	17.45	150	91	Horizontal
7	17948.8	47.36	0.70	54.00	6.64	150	141	Horizontal

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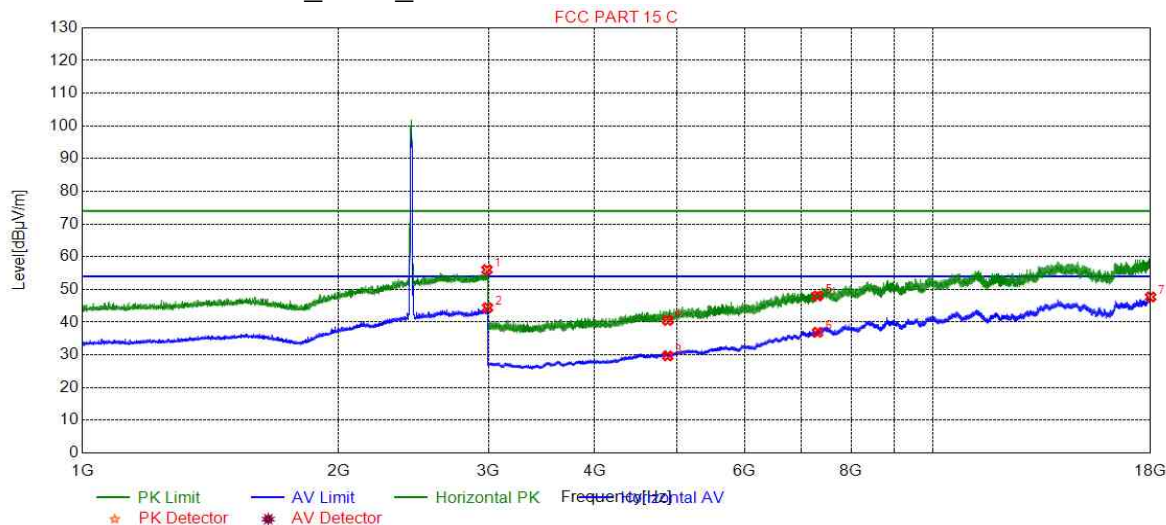
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2.9.2.7 802.11B_ CH6_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.49	56.06	9.50	74.00	17.94	150	242	Horizontal
2	2992.49	44.43	9.48	54.00	9.57	150	215	Horizontal
3	4874.00	29.71	-17.99	54.00	24.29	150	306	Horizontal
4	4874.00	40.53	-17.99	74.00	33.47	150	279	Horizontal
5	7311.00	48.01	-9.74	74.00	25.99	150	342	Horizontal
6	7311.00	36.92	-9.74	54.00	17.08	150	0	Horizontal
7	18000.0	47.71	0.72	54.00	6.29	150	141	Horizontal

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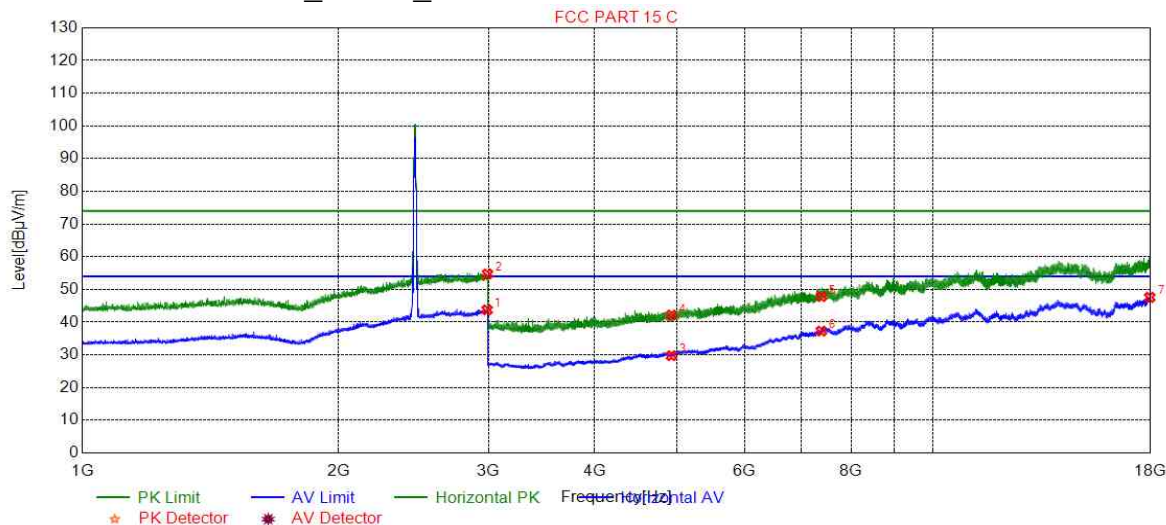
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2.9.2.8 802.11B_ CH11_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2989.49	43.76	9.50	54.00	10.24	150	156	Horizontal
2	2992.99	54.75	9.48	74.00	19.25	150	32	Horizontal
3	4924.00	29.76	-17.72	54.00	24.24	150	18	Horizontal
4	4924.00	42.19	-17.72	74.00	31.81	150	18	Horizontal
5	7386.00	47.85	-9.55	74.00	26.15	150	41	Horizontal
6	7386.00	37.28	-9.55	54.00	16.72	150	0	Horizontal
7	17961.4	47.60	0.71	54.00	6.40	150	142	Horizontal

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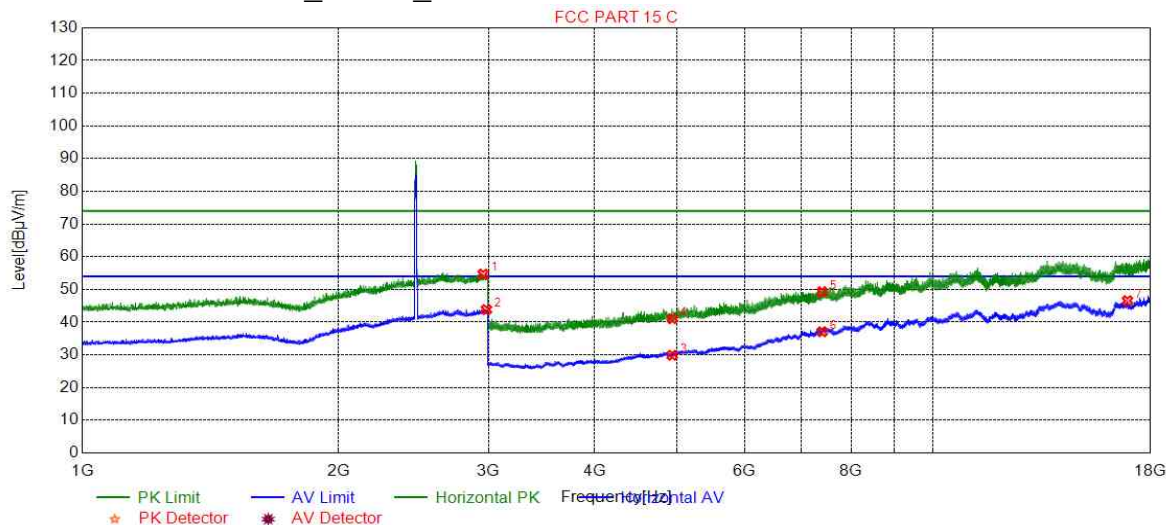
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2.9.2.9 802.11B_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.98	54.72	9.64	74.00	19.28	150	60	Horizontal
2	2984.49	43.86	9.52	54.00	10.14	150	60	Horizontal
3	4934.00	29.91	-17.65	54.00	24.09	150	18	Horizontal
4	4934.00	41.09	-17.65	74.00	32.91	150	238	Horizontal
5	7401.00	49.32	-9.50	74.00	24.68	150	242	Horizontal
6	7401.00	37.07	-9.50	54.00	16.93	150	291	Horizontal
7	16905.9	46.59	1.07	54.00	7.41	150	242	Horizontal

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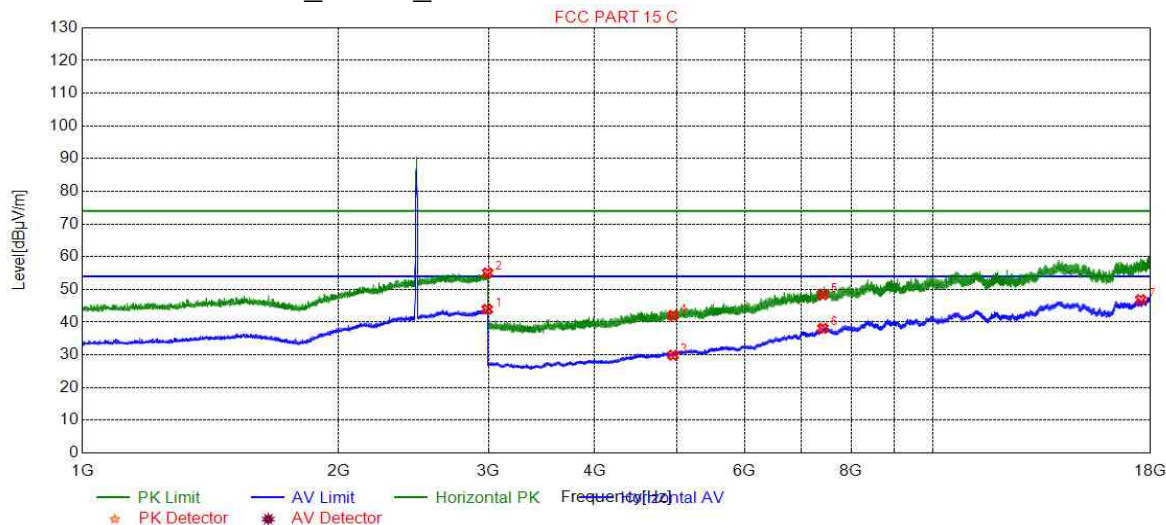
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2.9.2.10 802.11B_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.99	43.95	9.49	54.00	10.05	150	333	Horizontal
2	2993.49	55.07	9.48	74.00	18.93	150	182	Horizontal
3	4944.00	29.90	-17.58	54.00	24.10	150	265	Horizontal
4	4944.00	42.10	-17.58	74.00	31.90	150	265	Horizontal
5	7416.00	48.38	-9.44	74.00	25.62	150	192	Horizontal
6	7416.00	38.12	-9.44	54.00	15.88	150	342	Horizontal
7	17522.0	46.91	1.01	54.00	7.09	150	0	Horizontal

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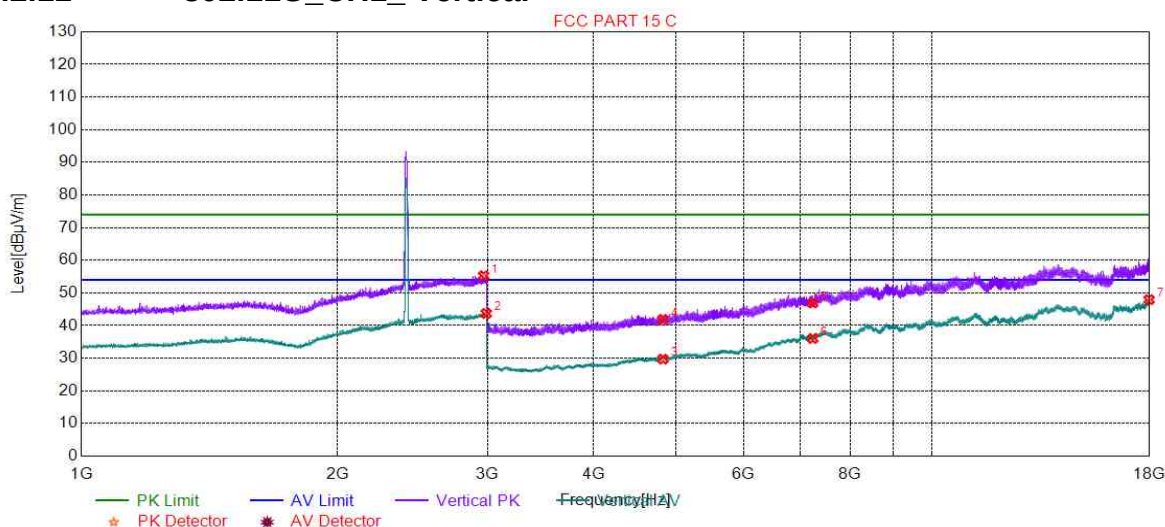
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2.9.2.11 802.11G_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2969.49	55.28	9.59	74.00	18.72	150	177	Vertical
2	2990.49	43.73	9.49	54.00	10.27	150	315	Vertical
3	4824.00	29.73	-18.21	54.00	24.27	150	224	Vertical
4	4824.00	41.89	-18.21	74.00	32.11	150	112	Vertical
5	7236.00	46.93	-9.99	74.00	27.07	150	192	Vertical
6	7236.00	36.05	-9.99	54.00	17.95	150	91	Vertical
7	17973.5	47.94	0.71	54.00	6.06	150	242	Vertical

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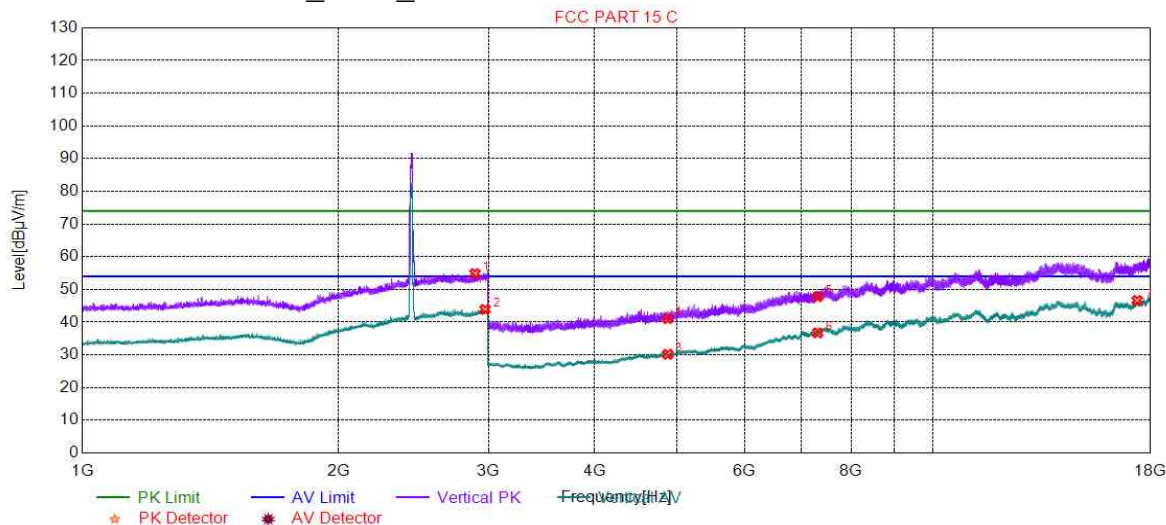
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2.9.2.12 802.11G_ CH6_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2892.97	54.89	9.15	74.00	19.11	150	178	Vertical
2	2973.49	43.89	9.57	54.00	10.11	150	246	Vertical
3	4874.00	30.18	-17.99	54.00	23.82	150	266	Vertical
4	4874.00	41.09	-17.99	74.00	32.91	150	238	Vertical
5	7311.00	47.79	-9.74	74.00	26.21	150	0	Vertical
6	7311.00	36.75	-9.74	54.00	17.25	150	92	Vertical
7	17357.5	46.65	0.07	54.00	7.35	150	92	Vertical

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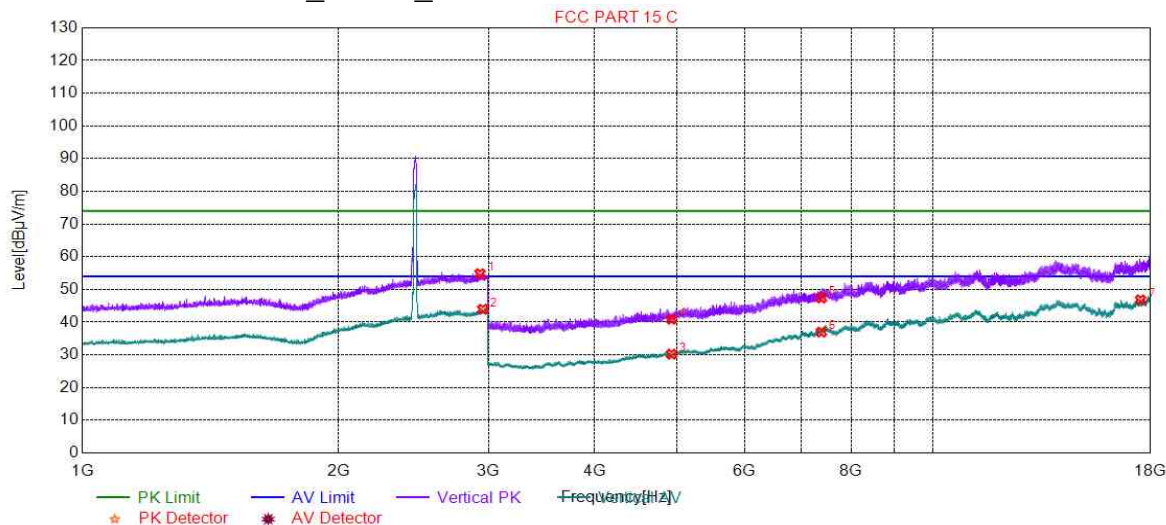
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2.9.2.13 802.11G_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.98	54.83	9.50	74.00	19.17	150	246	Vertical
2	2954.48	43.96	9.66	54.00	10.04	150	342	Vertical
3	4924.00	30.24	-17.72	54.00	23.76	150	155	Vertical
4	4924.00	40.92	-17.72	74.00	33.08	150	128	Vertical
5	7386.00	47.42	-9.55	74.00	26.58	150	291	Vertical
6	7386.00	36.99	-9.55	54.00	17.01	150	41	Vertical
7	17517.0	46.84	0.99	54.00	7.16	150	41	Vertical

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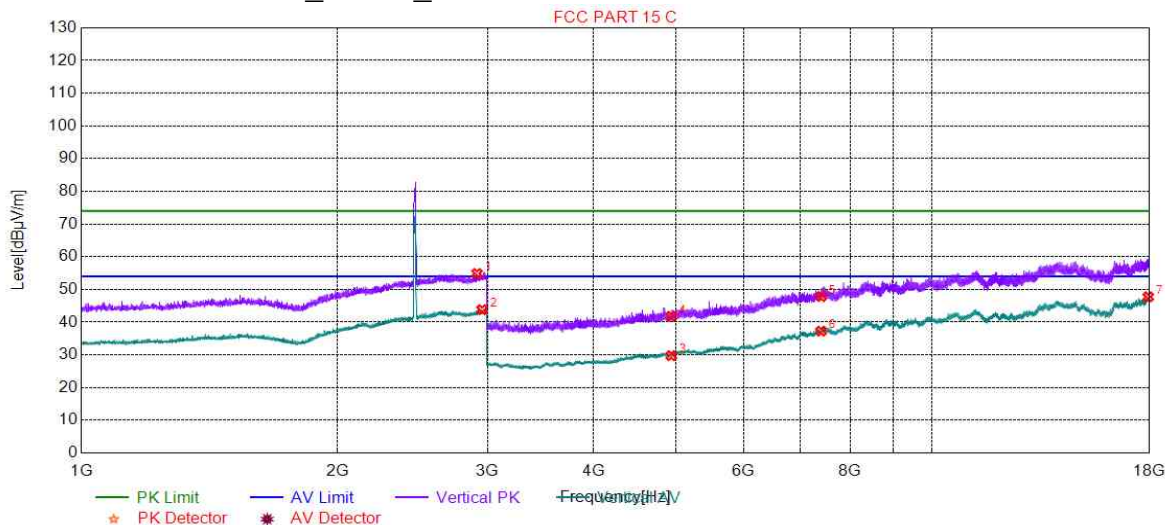
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2.9.2.14 802.11G_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2916.97	54.90	9.32	74.00	19.10	150	94	Vertical
2	2956.98	43.83	9.65	54.00	10.17	150	342	Vertical
3	4934.00	29.78	-17.65	54.00	24.22	150	210	Vertical
4	4934.00	41.82	-17.65	74.00	32.18	150	265	Vertical
5	7401.00	47.84	-9.50	74.00	26.16	150	191	Vertical
6	7401.00	37.27	-9.50	54.00	16.73	150	40	Vertical
7	17933.4	47.76	0.70	54.00	6.24	150	90	Vertical

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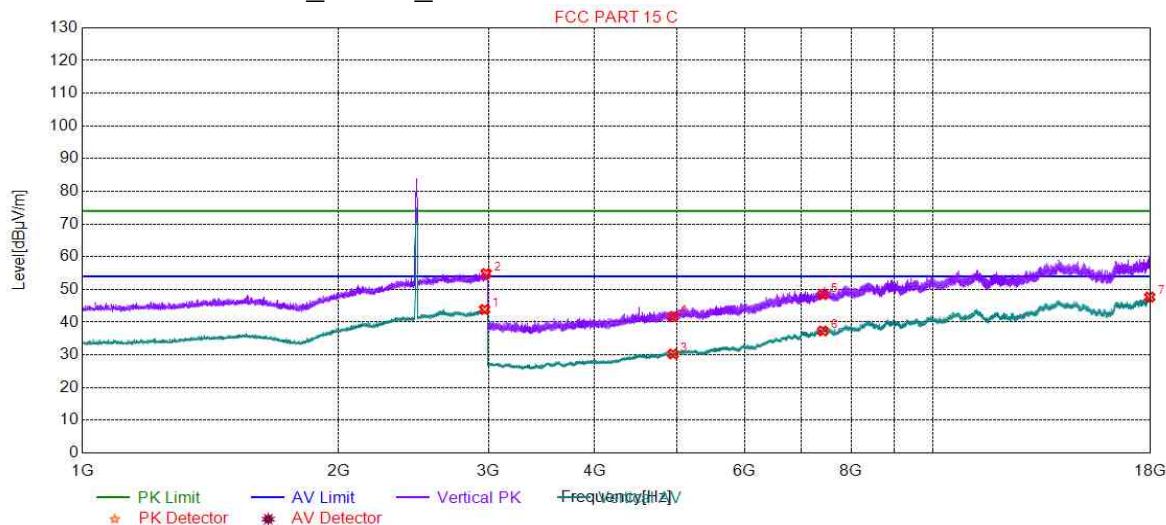
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2.9.2.15 802.11G_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2968.99	43.88	9.59	54.00	10.12	150	39	Vertical
2	2981.49	54.91	9.54	74.00	19.09	150	177	Vertical
3	4944.00	30.28	-17.58	54.00	23.72	150	129	Vertical
4	4944.00	41.70	-17.58	74.00	32.30	150	320	Vertical
5	7416.00	48.39	-9.44	74.00	25.61	150	291	Vertical
6	7416.00	37.32	-9.44	54.00	16.68	150	342	Vertical
7	17955.4	47.67	0.71	54.00	6.33	150	141	Vertical

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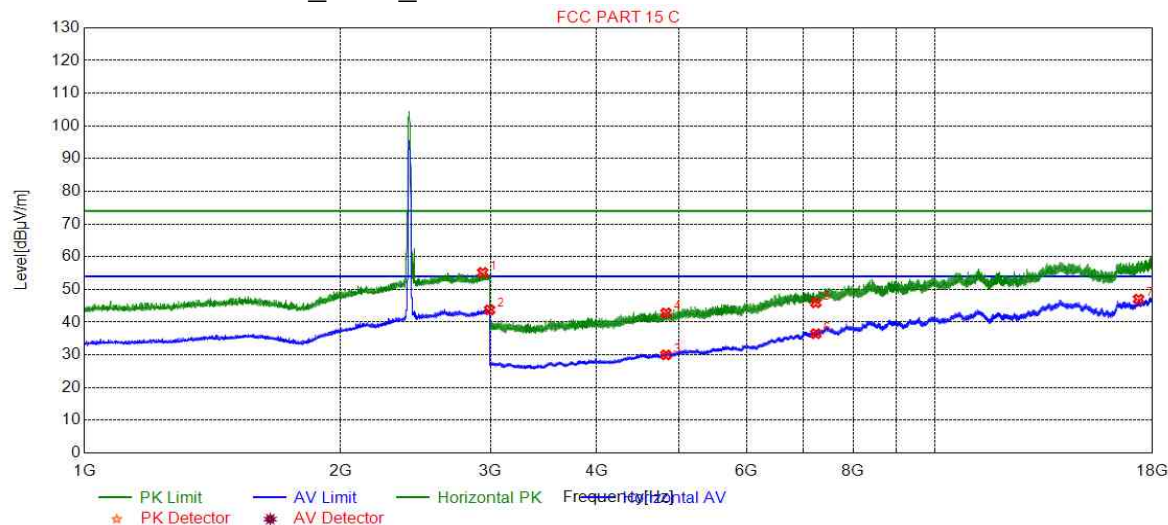
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2.9.2.16 802.11G_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.48	55.18	9.56	74.00	18.82	150	156	Horizontal
2	2993.99	43.76	9.48	54.00	10.24	150	267	Horizontal
3	4824.00	30.00	-18.21	54.00	24.00	150	239	Horizontal
4	4824.00	42.83	-18.21	74.00	31.17	150	156	Horizontal
5	7236.00	45.94	-9.99	74.00	28.06	150	141	Horizontal
6	7236.00	36.48	-9.99	54.00	17.52	150	0	Horizontal
7	17326.7	47.04	-0.08	54.00	6.96	150	42	Horizontal

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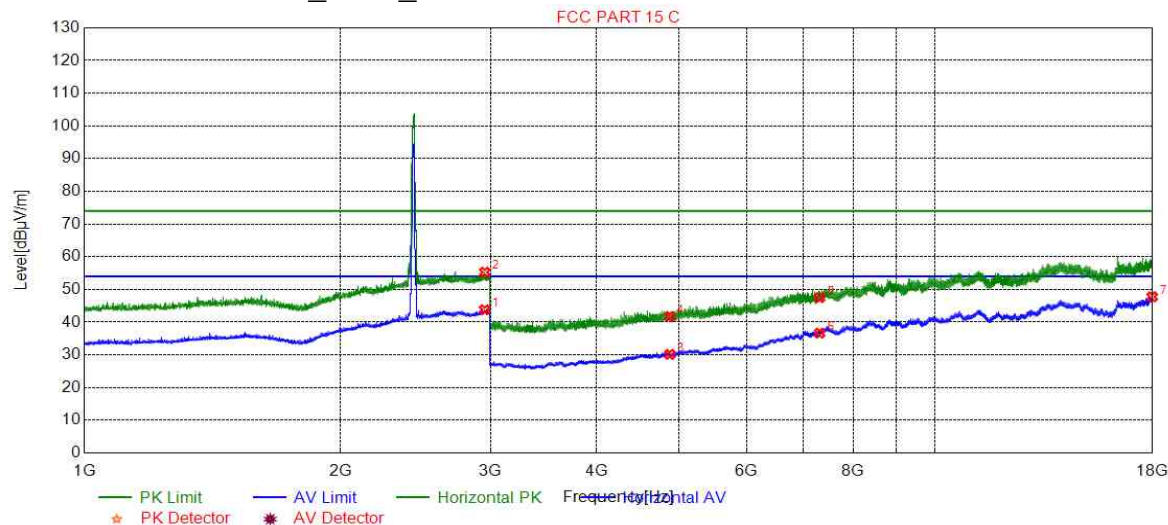
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2.9.2.17 802.11G_ CH6_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2953.48	43.82	9.66	54.00	10.18	150	333	Horizontal
2	2954.48	55.30	9.66	74.00	18.70	150	333	Horizontal
3	4874.00	30.15	-17.99	54.00	23.85	150	18	Horizontal
4	4874.00	41.75	-17.99	74.00	32.25	150	101	Horizontal
5	7311.00	47.53	-9.74	74.00	26.47	150	239	Horizontal
6	7311.00	36.65	-9.74	54.00	17.35	150	0	Horizontal
7	17977.9	47.77	0.71	54.00	6.23	150	239	Horizontal

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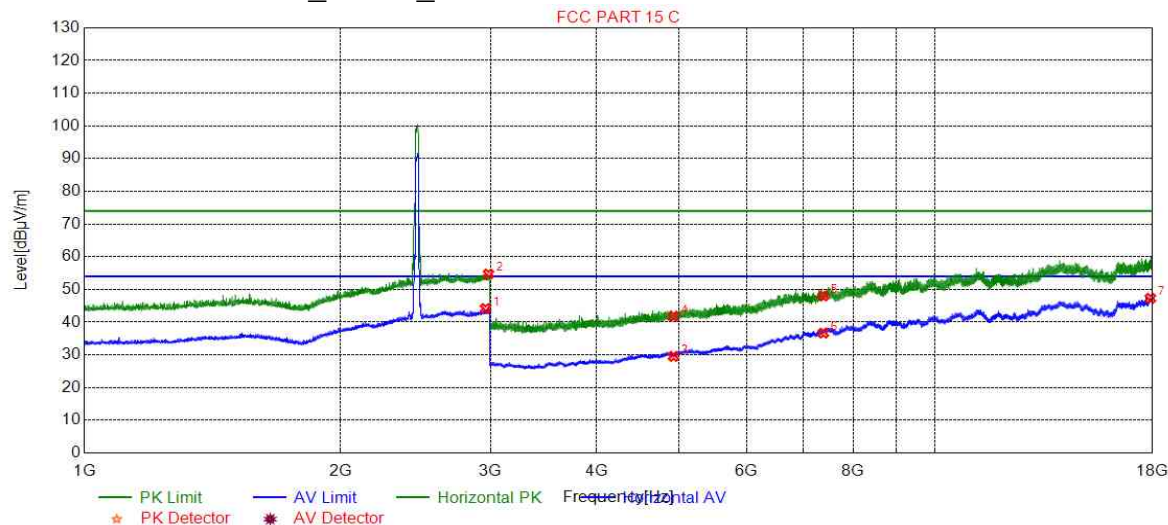
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2.9.2.18 802.11G_ CH11_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.49	44.19	9.63	54.00	9.81	150	265	Horizontal
2	2984.49	54.73	9.52	74.00	19.27	150	223	Horizontal
3	4924.00	29.55	-17.72	54.00	24.45	150	18	Horizontal
4	4924.00	41.80	-17.72	74.00	32.20	150	48	Horizontal
5	7386.00	48.01	-9.55	74.00	25.99	150	191	Horizontal
6	7386.00	36.66	-9.55	54.00	17.34	150	342	Horizontal
7	17889.4	47.31	0.55	54.00	6.69	150	41	Horizontal

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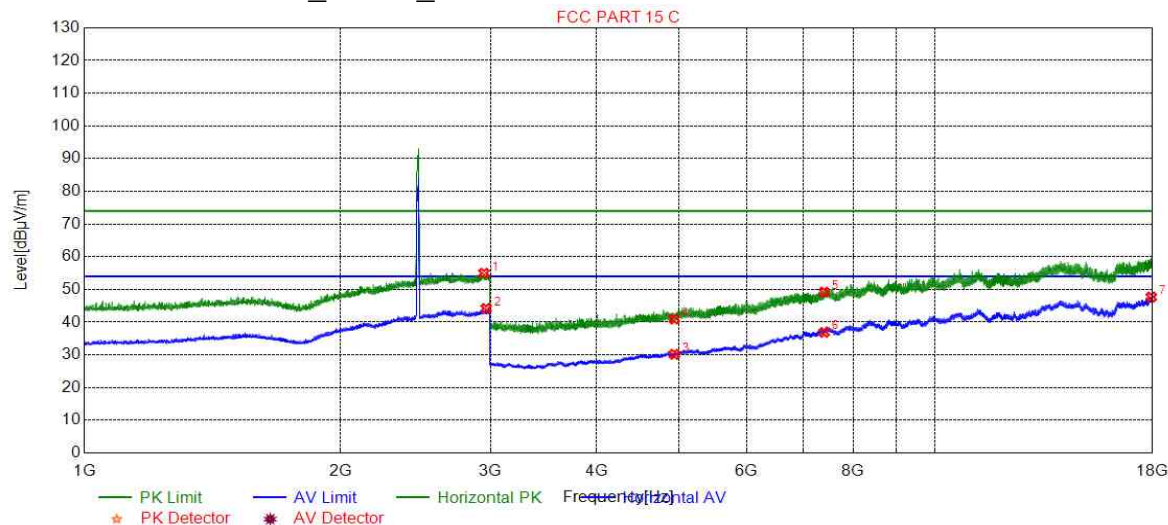
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2.9.2.19 802.11G_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.98	54.99	9.67	74.00	19.01	150	358	Horizontal
2	2964.99	44.20	9.61	54.00	9.80	150	100	Horizontal
3	4934.00	30.19	-17.65	54.00	23.81	150	18	Horizontal
4	4934.00	40.97	-17.65	74.00	33.03	150	335	Horizontal
5	7401.00	49.23	-9.50	74.00	24.77	150	292	Horizontal
6	7401.00	36.88	-9.50	54.00	17.12	150	0	Horizontal
7	17932.3	47.70	0.70	54.00	6.30	150	42	Horizontal

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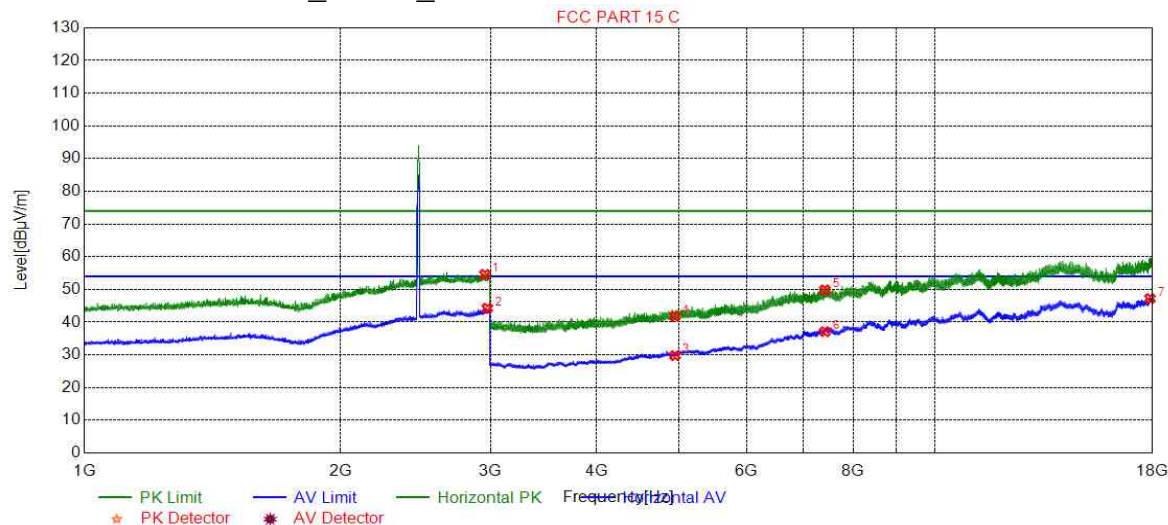
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2.9.2.20 802.11G_ CH13_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.98	54.62	9.65	74.00	19.38	150	334	Horizontal
2	2974.99	44.27	9.57	54.00	9.73	150	251	Horizontal
3	4944.00	29.80	-17.58	54.00	24.20	150	307	Horizontal
4	4944.00	41.81	-17.58	74.00	32.19	150	359	Horizontal
5	7416.00	49.87	-9.44	74.00	24.13	150	90	Horizontal
6	7416.00	37.10	-9.44	54.00	16.90	150	90	Horizontal
7	17870.7	47.22	0.30	54.00	6.78	150	342	Horizontal

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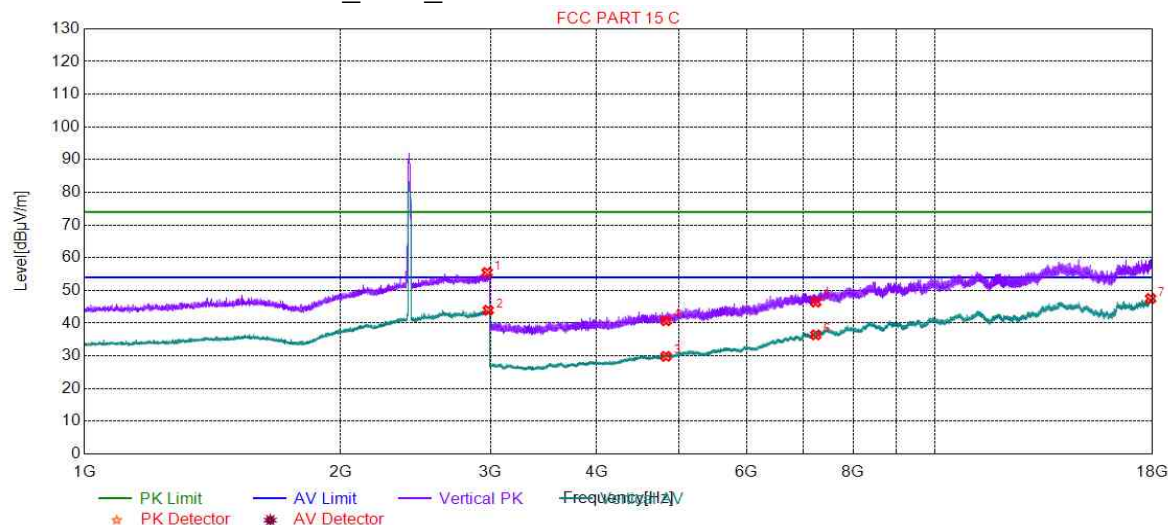
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2.9.2.21 802.11N20_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.99	55.50	9.57	74.00	18.50	150	246	Vertical
2	2981.99	43.95	9.53	54.00	10.05	150	220	Vertical
3	4824.00	29.87	-18.21	54.00	24.13	150	211	Vertical
4	4824.00	40.74	-18.21	74.00	33.26	150	46	Vertical
5	7236.00	46.44	-9.99	74.00	27.56	150	190	Vertical
6	7236.00	36.43	-9.99	54.00	17.57	150	0	Vertical
7	17902.6	47.55	0.69	54.00	6.45	150	0	Vertical

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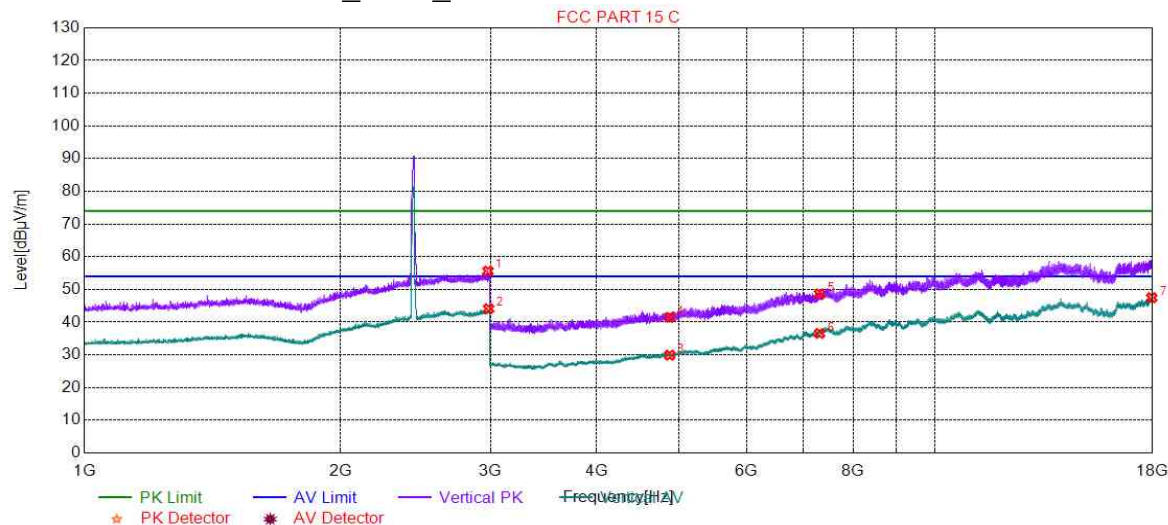
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2.9.2.22 802.11N20_ CH6_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	55.64	9.54	74.00	18.36	150	261	Vertical
2	2985.49	44.13	9.52	54.00	9.87	150	179	Vertical
3	4874.00	29.92	-17.99	54.00	24.08	150	339	Vertical
4	4874.00	41.47	-17.99	74.00	32.53	150	257	Vertical
5	7311.00	48.67	-9.74	74.00	25.33	150	0	Vertical
6	7311.00	36.55	-9.74	54.00	17.45	150	342	Vertical
7	17956.5	47.48	0.71	54.00	6.52	150	190	Vertical

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