

FCC TEST REPORT

Application No: ZR/2020/50040
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.: M2006C3MG
Trade Mark: Redmi
FCC ID: 2AFZZC3MG
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: 2020/6/10
Date of Test: 2020/6/10to 2020/6/26
Date of Issue: 2021/4/22

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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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/6/26		Original
02		2021/4/22	Stephen liang	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report ZR/2020/5004002, issued on 2020-06-26, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		 <hr/> (Stephen liang) / Engineer
Checked By		 <hr/> (David Chen) /Reviewer



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2 Test Summary

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

Remark:

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 Client Information

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

3.2 Test Location

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.:	M2006C3MG
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI 12
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11B (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11G (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11N (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz 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:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N), <input type="checkbox"/> MIMO (for 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	1.0dBi
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input checked="" type="checkbox"/> Battery <input type="checkbox"/> PoE;; <input type="checkbox"/> Other:
Accessories	AC Adapter 1:Model :MDY-09-EQ; Input:100-240V,0.35A;Output:5V,2A AC Adapter 2:Model :MDY-09-EQ; Input:100-240V,0.35A;Output:5V,2A Li-ion Battery: Model :BN56;3.85V,4900mAh USB: Model :H52210; 0.8 meter, shielded cable, with-out ferrite core

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
3	2422MHz	6	2437MHz	9	2452MHz
4	2427MHz	7	2442MHz		



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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)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.0dBi.</p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<ol style="list-style-type: none"> 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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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

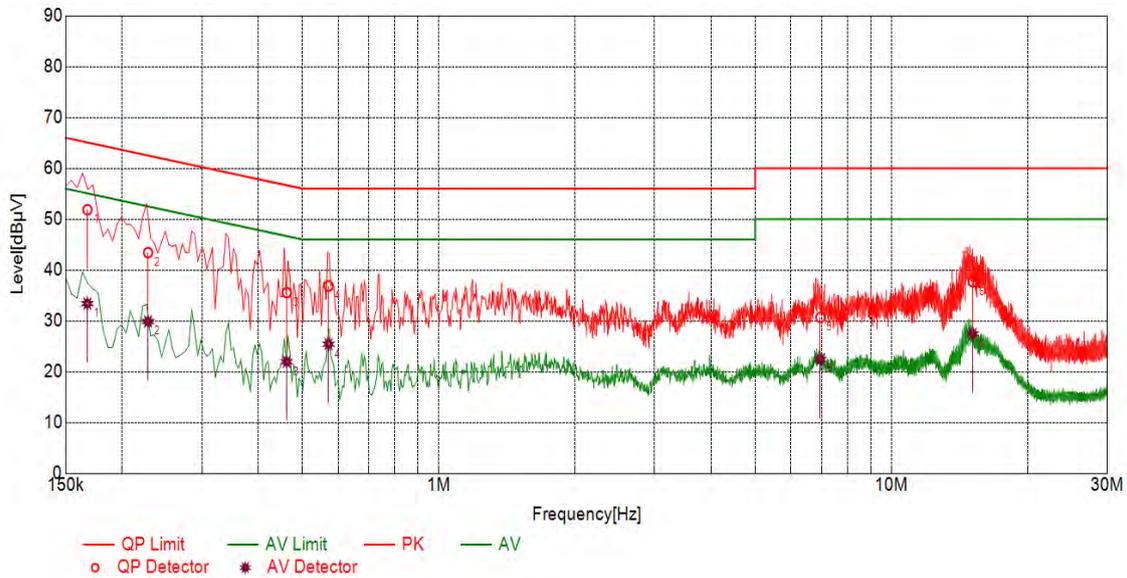


Measurement Data

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

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

Live Line:



Test Graph

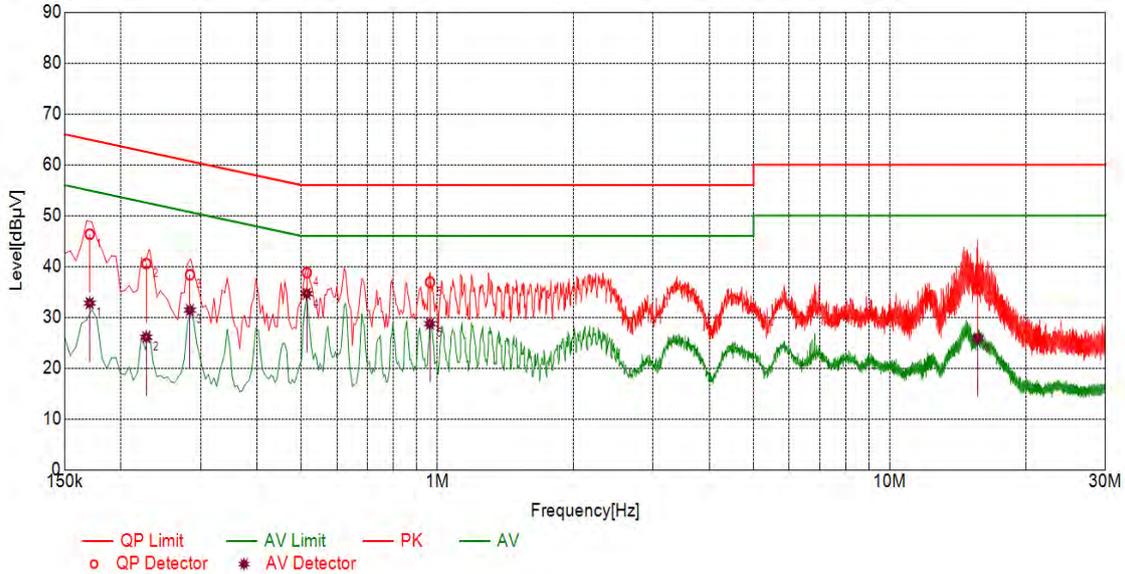
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1676	10.10	51.86	65.08	13.22	33.40	55.08	21.68	L
2	0.2281	10.10	43.43	62.52	19.09	29.88	52.52	22.64	L
3	0.4617	10.10	35.57	56.66	21.09	21.96	46.66	24.70	L
4	0.5713	10.10	36.87	56.00	19.13	25.43	46.00	20.57	L
5	6.9636	10.10	30.68	60.00	29.32	22.39	50.00	27.61	L
6	15.1241	10.11	37.69	60.00	22.31	27.44	50.00	22.56	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	0.1706	10.10	46.35	64.93	18.58	32.79	54.93	22.14	N
2	0.2275	10.10	40.57	62.54	21.97	26.09	52.54	26.45	N
3	0.2841	10.10	38.36	60.69	22.33	31.42	50.69	19.27	N
4	0.5148	10.10	38.79	56.00	17.21	34.65	46.00	11.35	N
5	0.9639	10.10	36.92	56.00	19.08	28.72	46.00	17.28	N
6	15.6579	10.11	35.59	60.00	24.41	25.88	50.00	24.12	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

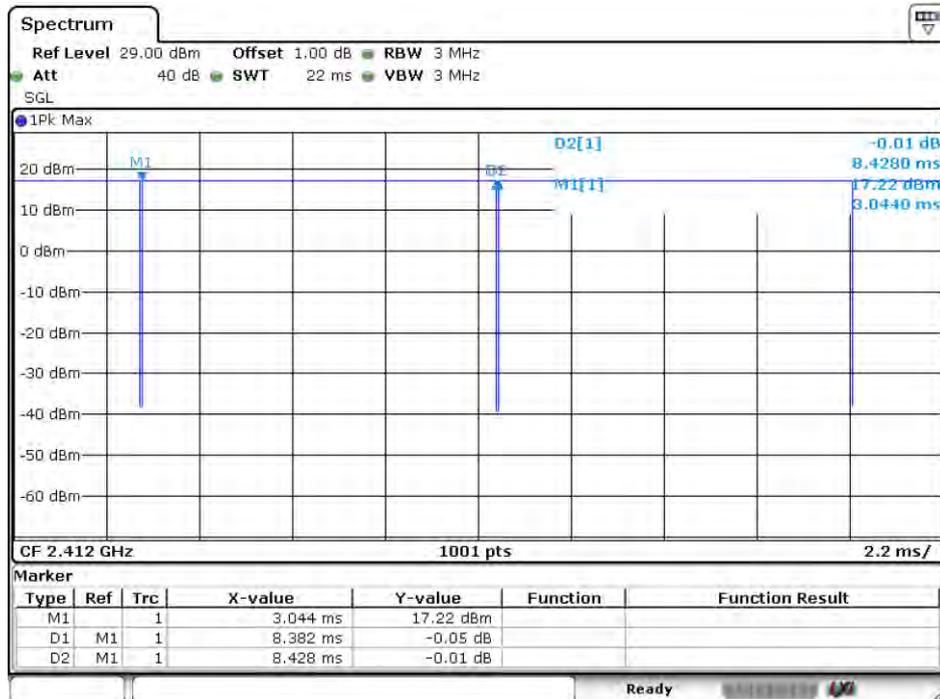
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1,CH6,CH11	99.45
11G	Ant 1: CH1,CH6,CH11	95.54
11N20	Ant 1: CH1,CH6,CH11	95.83
11N40	Ant 1: CH3,CH6,CH9	93.08

4.3.1 Test Plots

4.3.1.1 ANT1

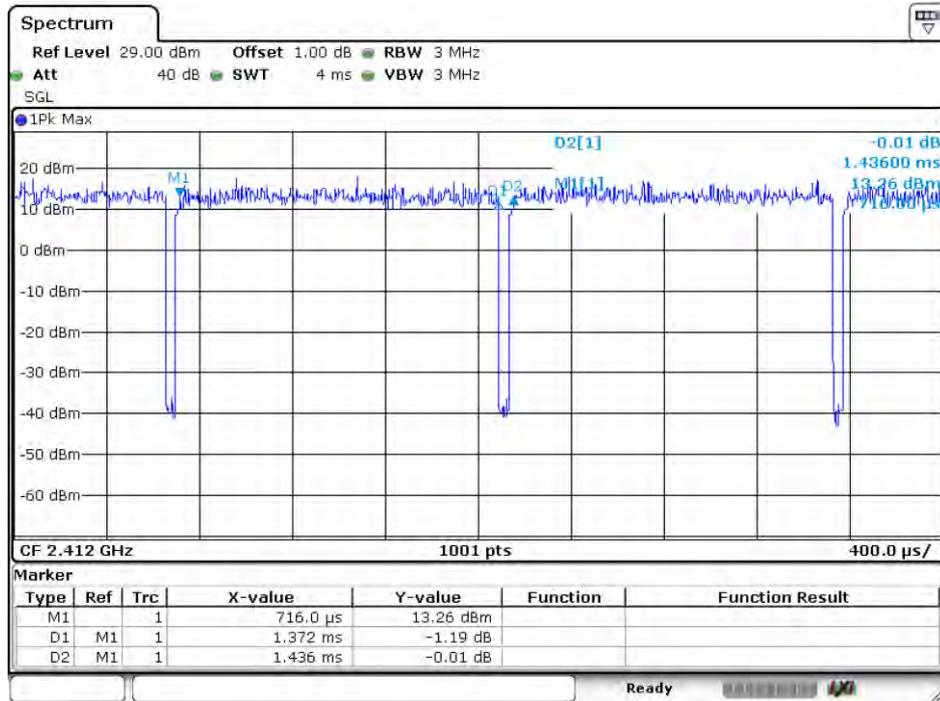
4.3.1.1.1 11B



Date: 8 JUN.2020 05:00:54

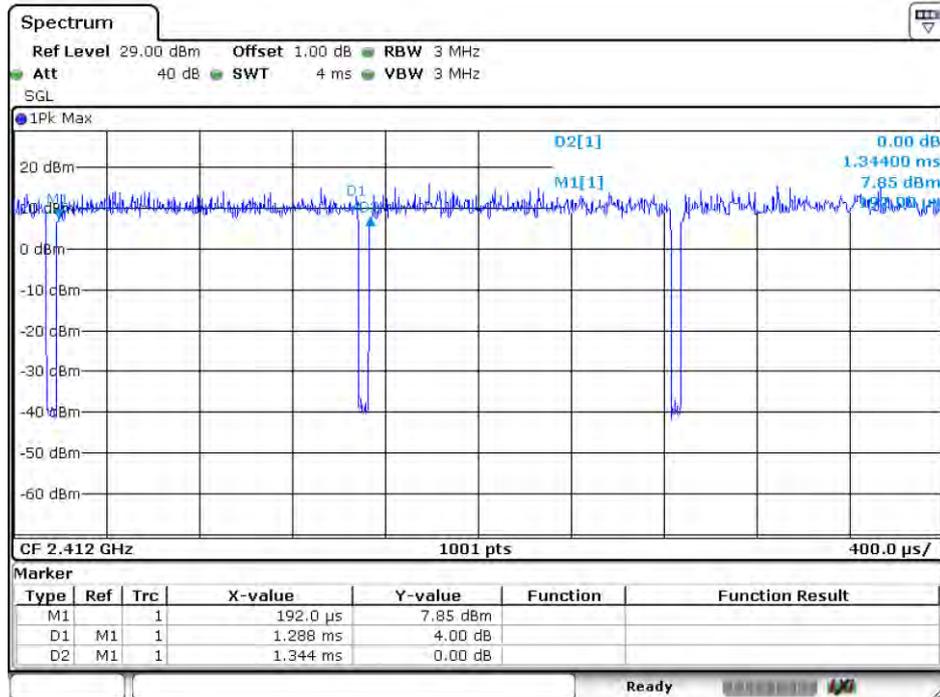


4.3.1.1.2 11G



Date: 8 JUN.2020 05:01:59

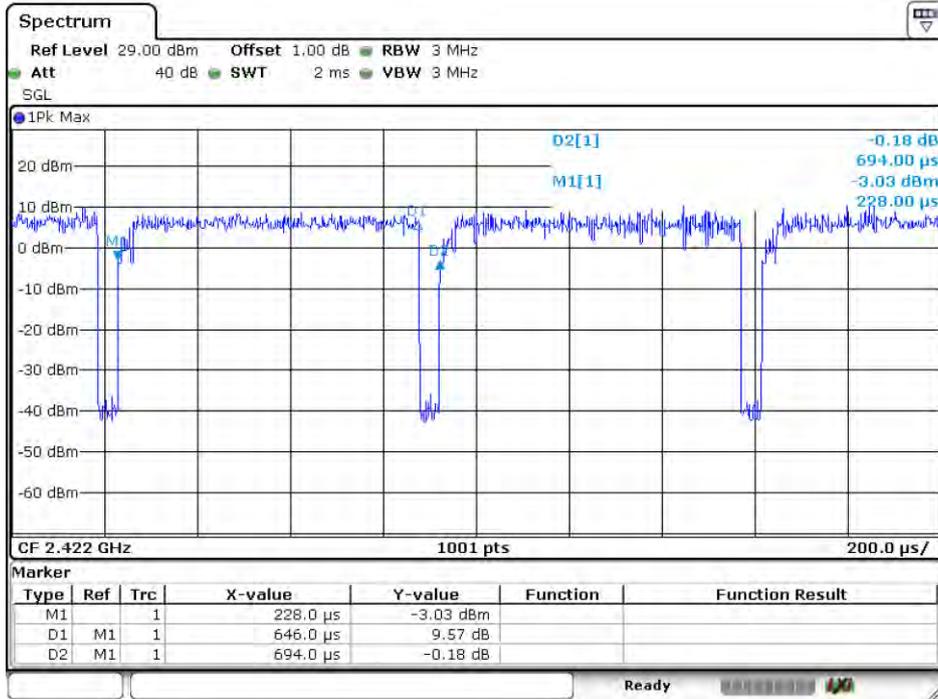
4.3.1.1.3 11N20



Date: 8 JUN.2020 05:02:32



4.3.1.1.4 11N40



Date: 8 JUN.2020 05:03:09



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



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4.4.1 Test Results

Measurement Data of Average Power:

Mode	Test Channel	Average Output Power (dBm) [Duty Cycle Considered]	Result
802.11B	Lowest	16.15	Report purpose only
	Middle	16.48	Report purpose only
	Highest	16.35	Report purpose only
802.11G	Lowest	13.02	Report purpose only
	Middle	13.39	Report purpose only
	Highest	13.08	Report purpose only
802.11N20	Lowest	10.92	Report purpose only
	Middle	11.42	Report purpose only
	Highest	11.02	Report purpose only
802.11N40	Lowest	11.16	Report purpose only
	Middle	11.35	Report purpose only
	Highest	11.42	Report purpose only

Measurement Data of Peak Power:

Mode	Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
802.11B	Lowest	16.66	30.00	Pass
	Middle	16.75	30.00	Pass
	Highest	17.26	30.00	Pass
802.11G	Lowest	14.62	30.00	Pass
	Middle	14.06	30.00	Pass
	Highest	14.21	30.00	Pass
802.11N20	Lowest	12.46	30.00	Pass
	Middle	12.03	30.00	Pass
	Highest	12.20	30.00	Pass
802.11N40	Lowest	12.01	30.00	Pass
	Middle	12.14	30.00	Pass
	Highest	12.62	30.00	Pass



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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

4.5.1 Test Results

Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
802.11B	Lowest	12.76	8.55	≥500	Pass
	Middle	12.98	8.55	≥500	Pass
	Highest	13.02	8.99	≥500	Pass
802.11G	Lowest	17.63	16.28	≥500	Pass
	Middle	16.80	16.02	≥500	Pass
	Highest	16.89	16.02	≥500	Pass
802.11N20	Lowest	18.19	17.15	≥500	Pass
	Middle	17.76	16.50	≥500	Pass
	Highest	17.84	17.54	≥500	Pass
802.11N40	Lowest	35.95	35.07	≥500	Pass
	Middle	36.12	35.17	≥500	Pass
	Highest	36.38	35.60	≥500	Pass



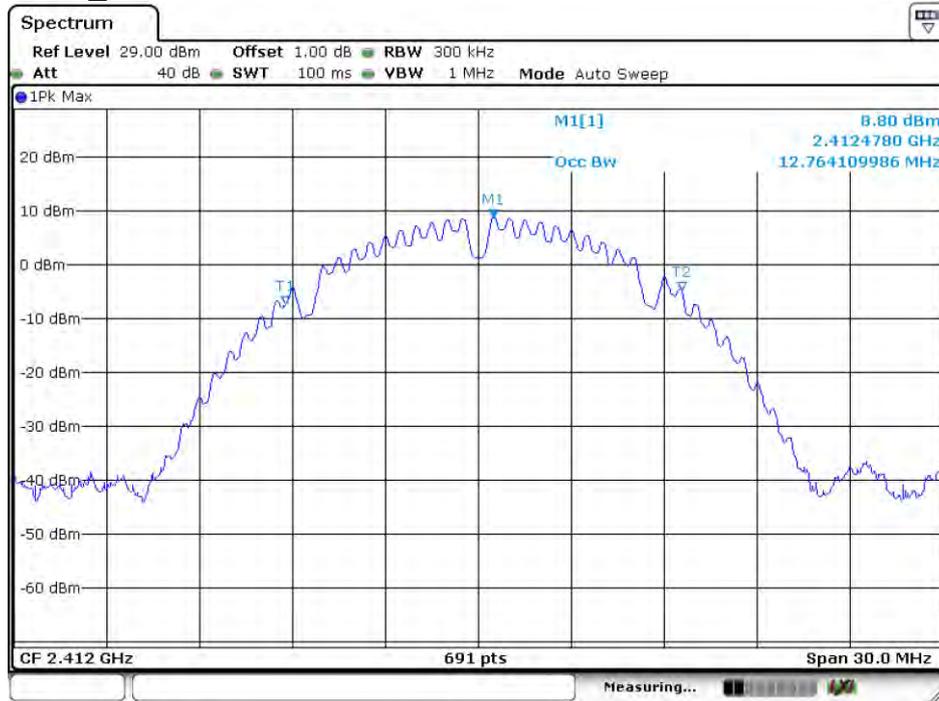
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4.5.2 Test plots

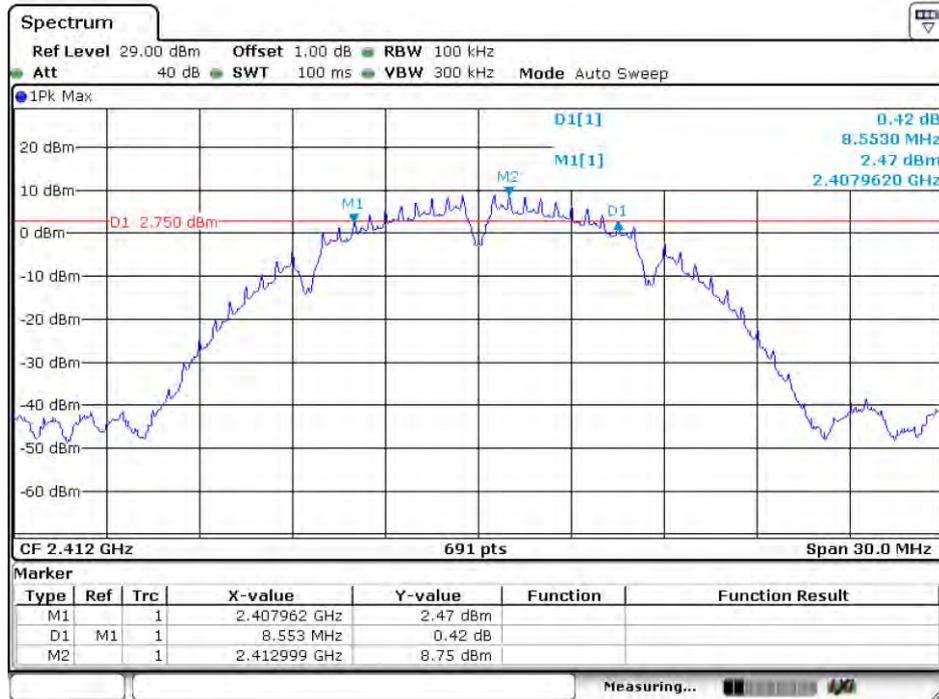
4.5.2.1 ANT1

4.5.2.1.1 802.11B_Lowest Channel



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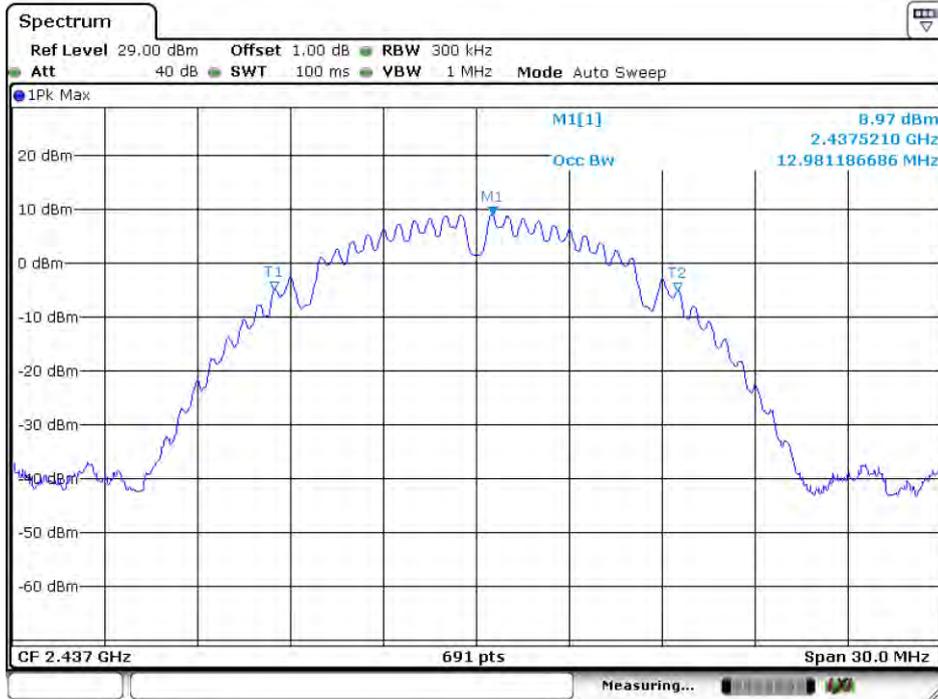




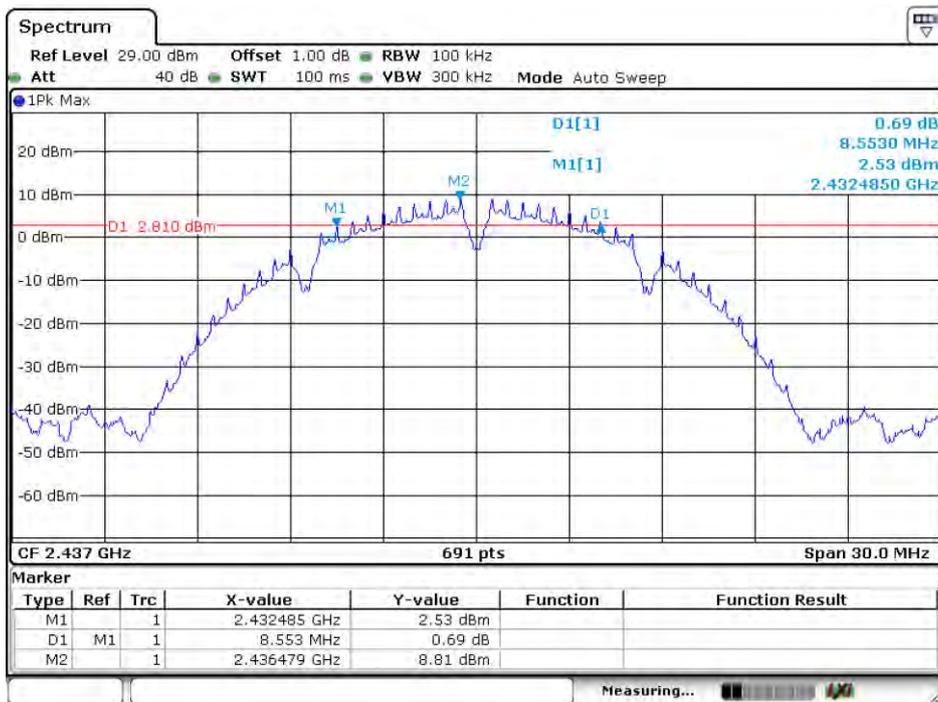
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4.5.2.1.2 802.11B_ Middle Channel



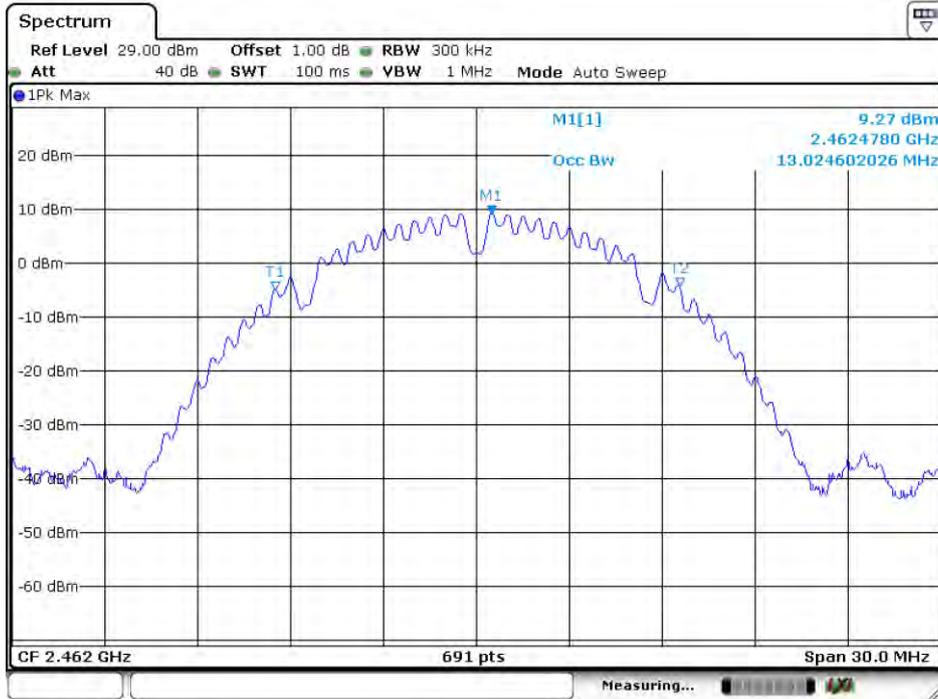
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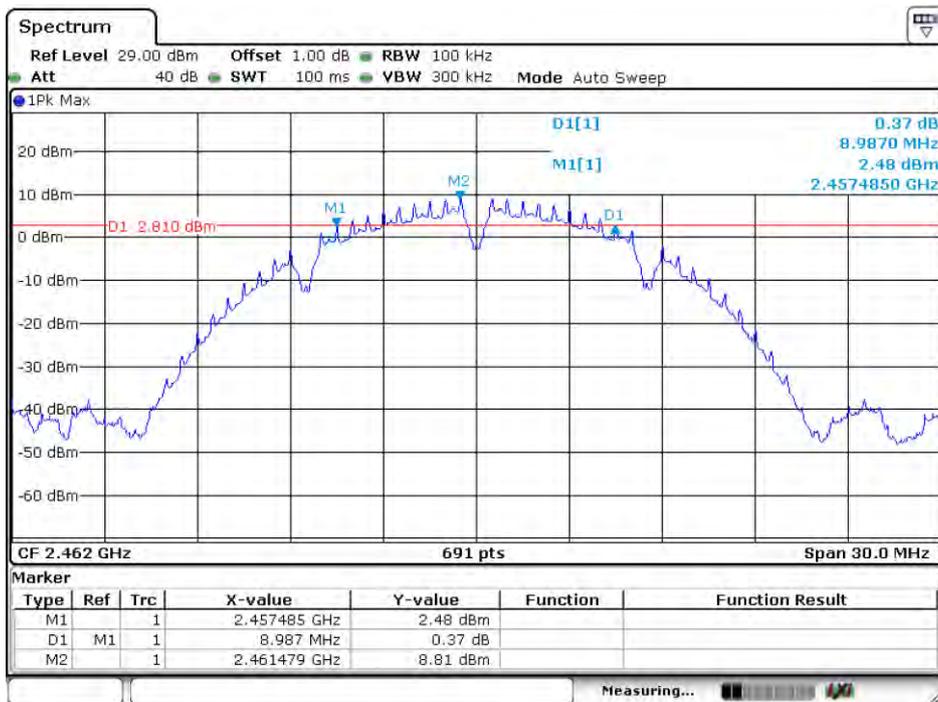
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4.5.2.1.3 802.11B_ Highest Channel



Date: 8 JUN.2020 04:03:50



Date: 8 JUN.2020 04:12:56

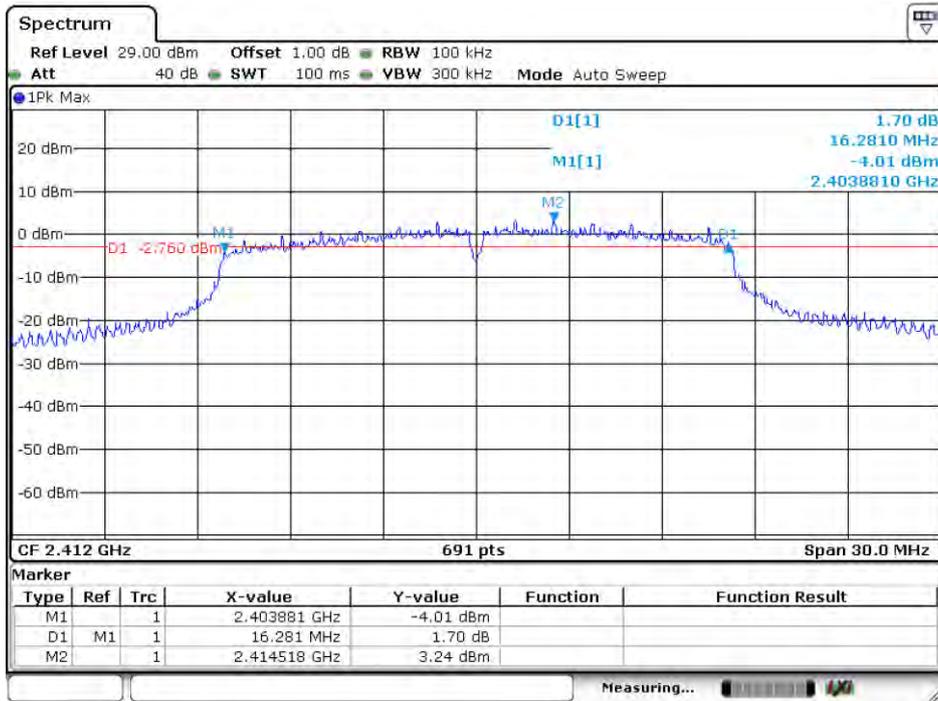


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4.5.2.1.4 802.11G_Lowest Channel



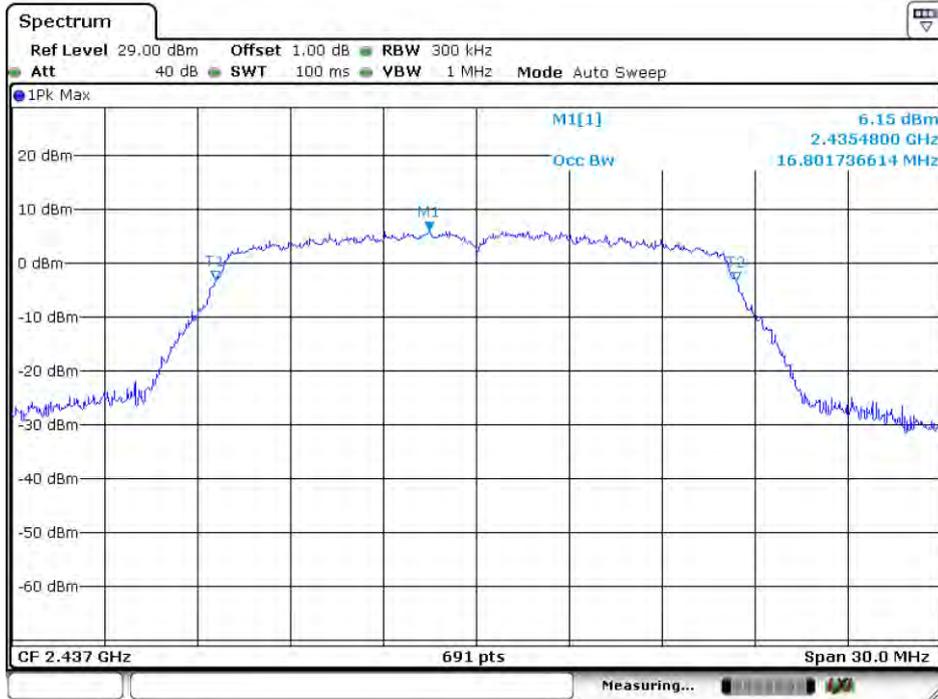
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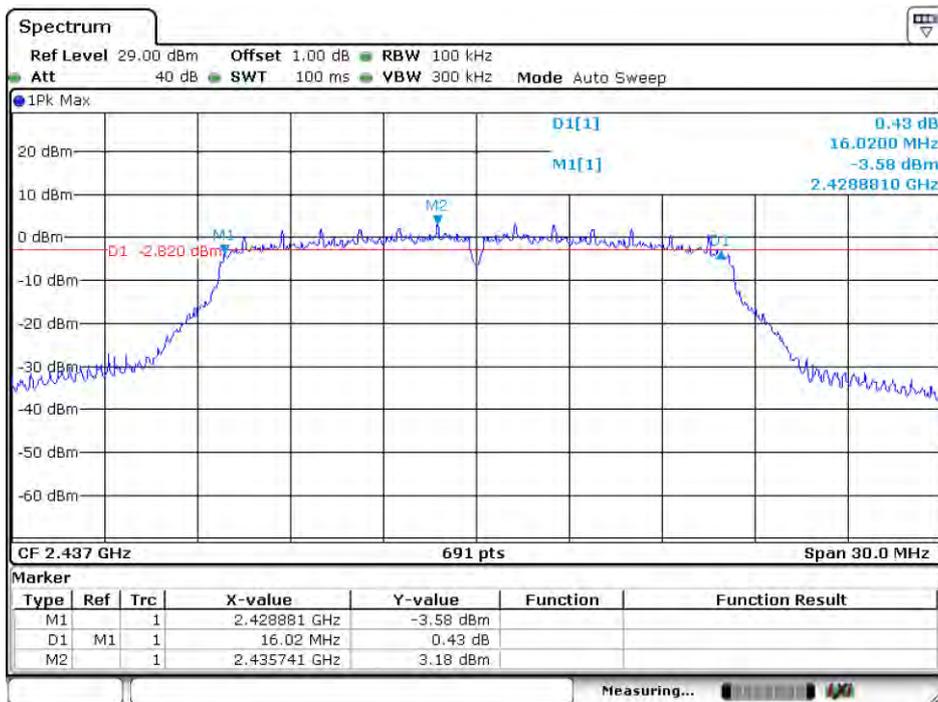
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4.5.2.1.5 802.11G_Middle Channel



Date: 8 JUN.2020 04:06:16



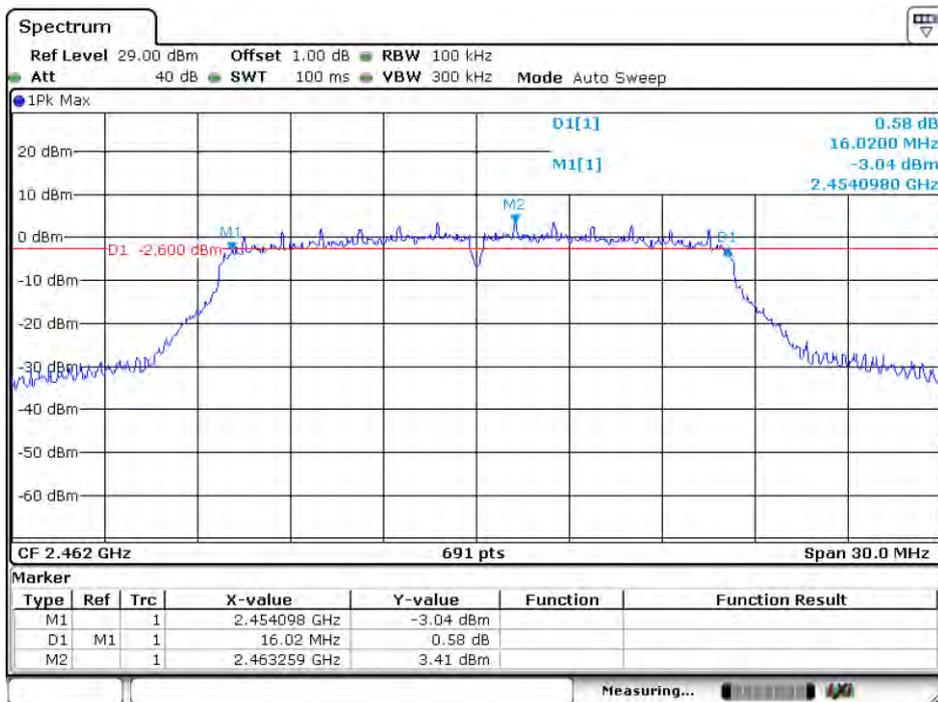
Date: 8 JUN.2020 04:09:12



4.5.2.1.6 802.11G_Highest Channel



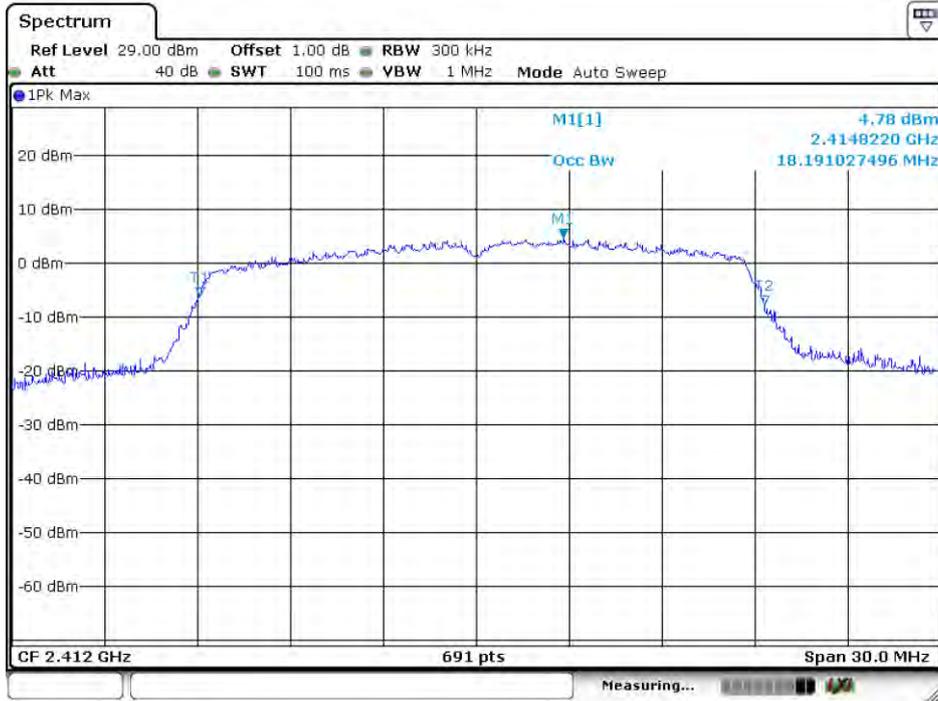
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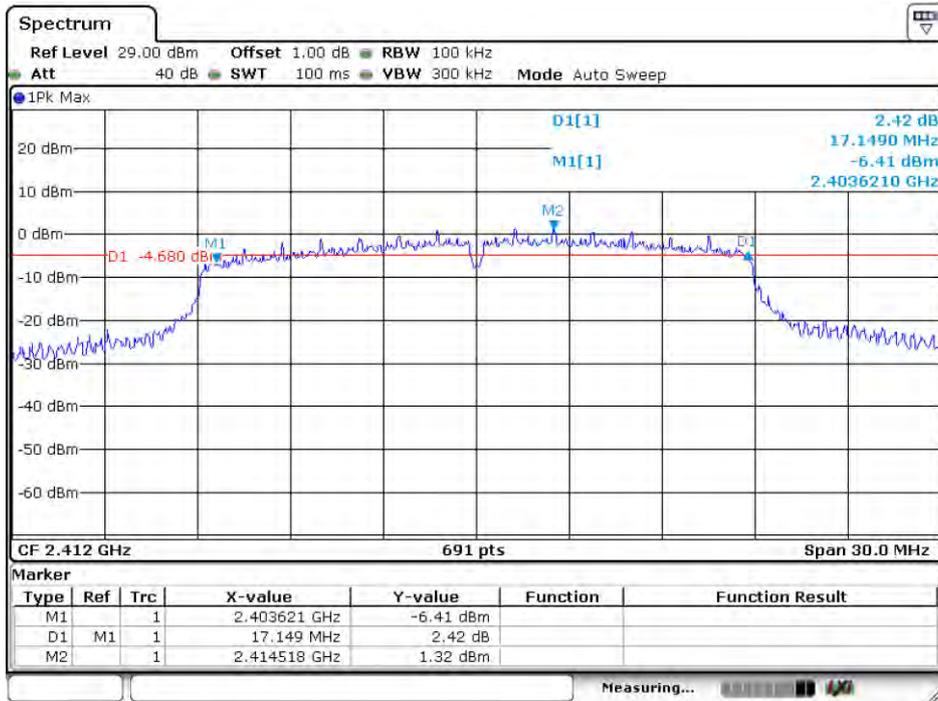
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4.5.2.1.7 802.11N20_Lowest Channel



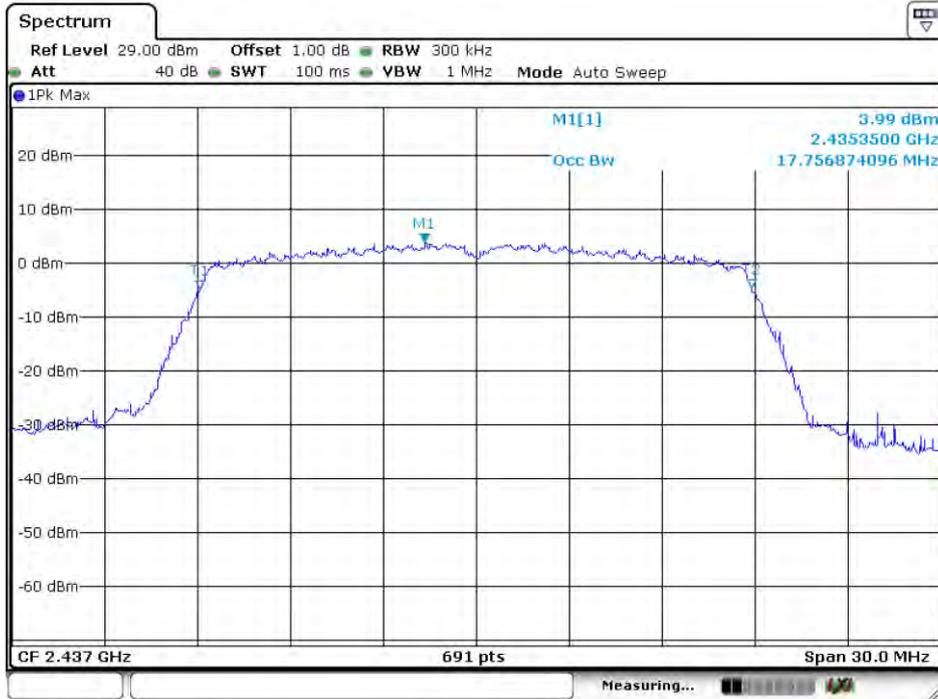
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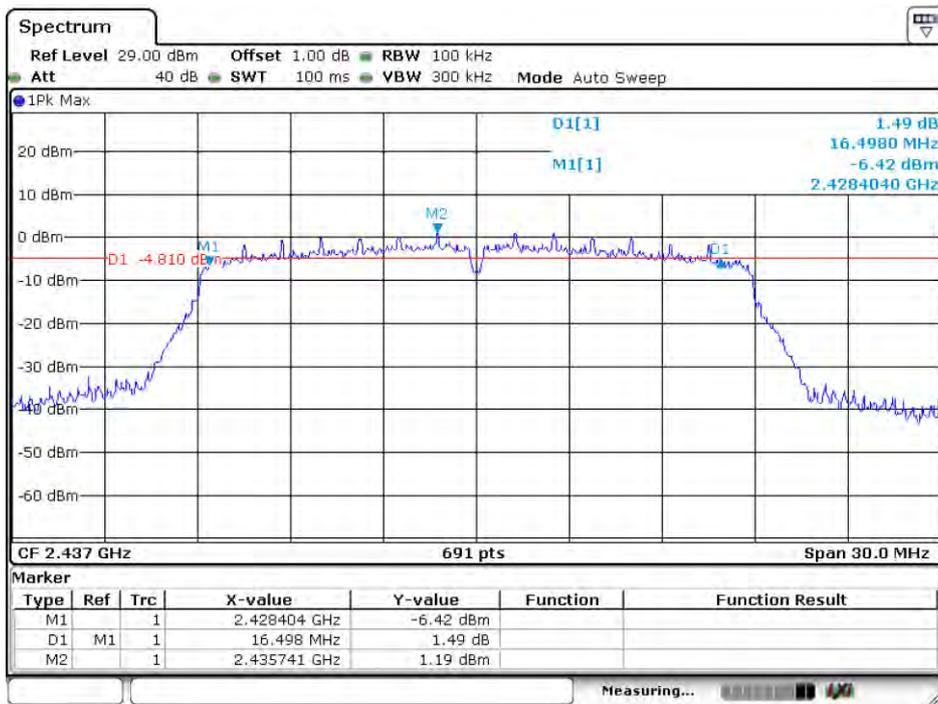
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4.5.2.1.8 802.11 N20_ Middle Channel



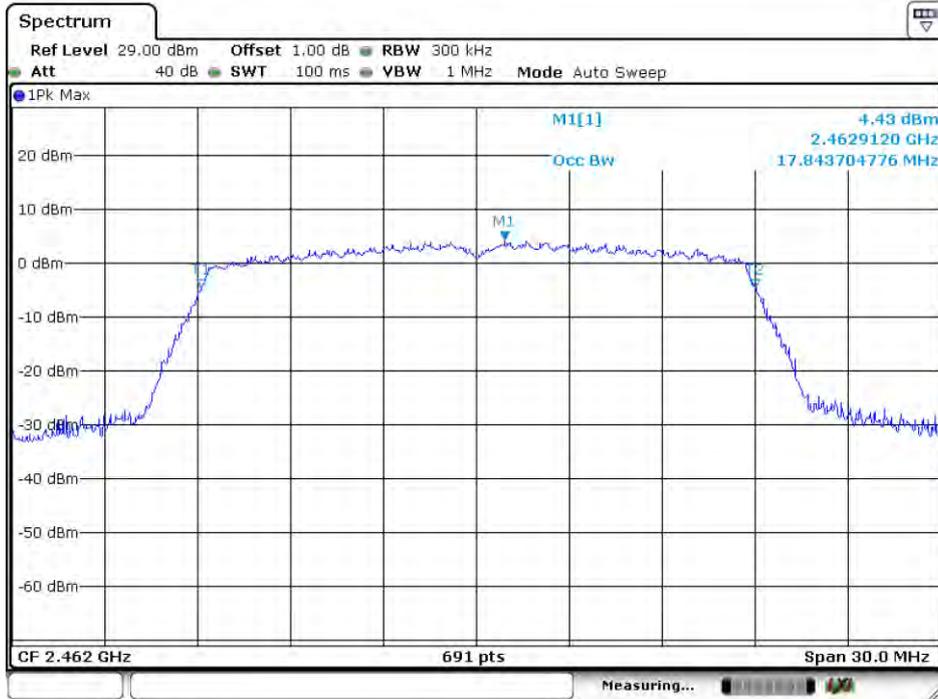
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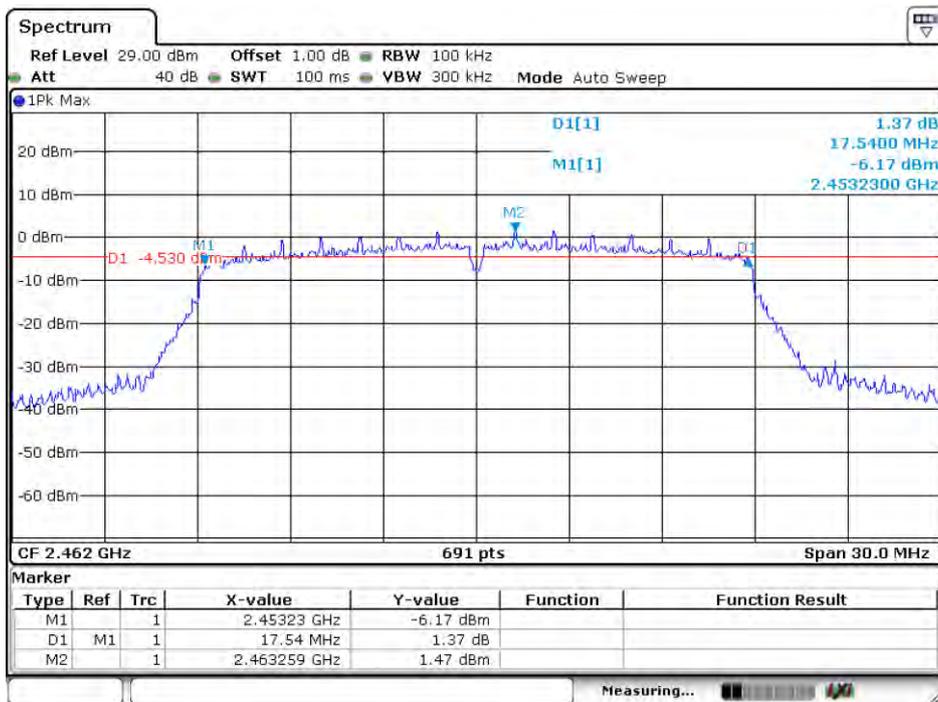
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4.5.2.1.9 802.11 N20_ Highest Channel



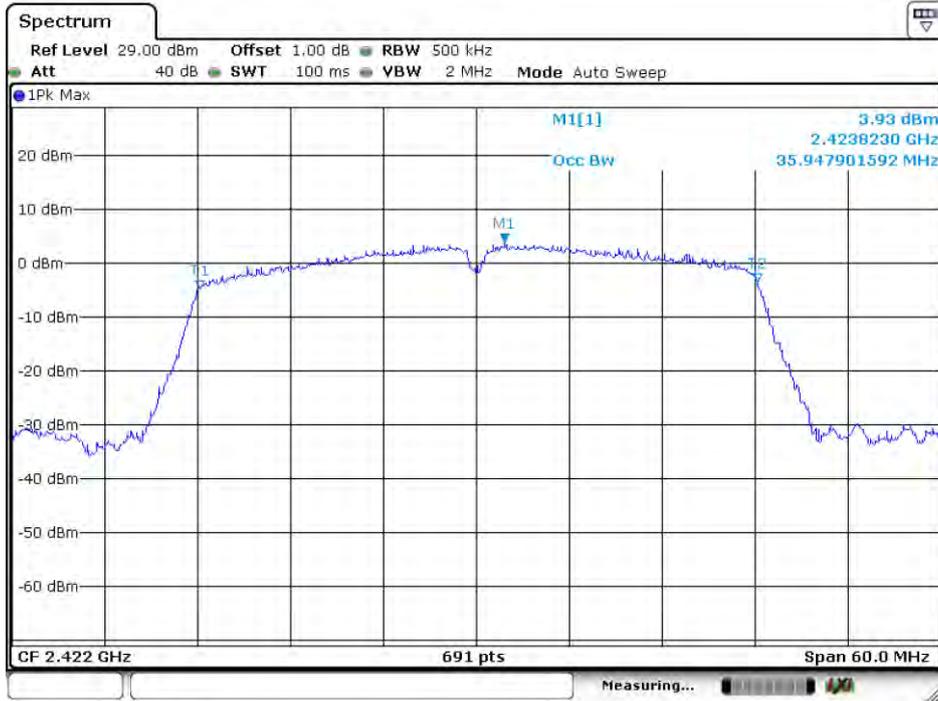
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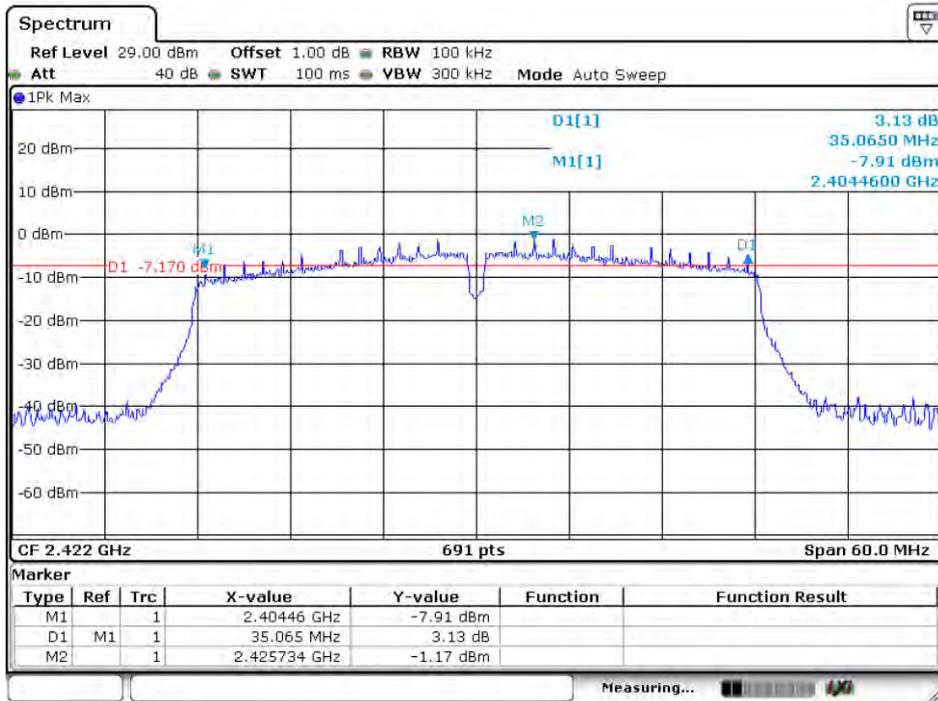
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4.5.2.1.10 802.11N40_Lowest Channel



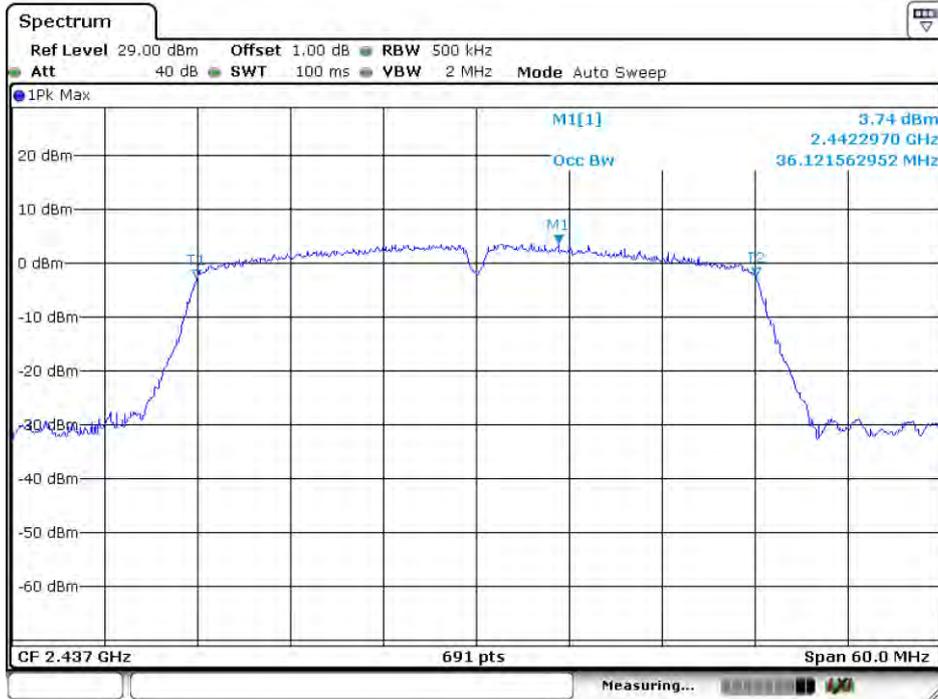
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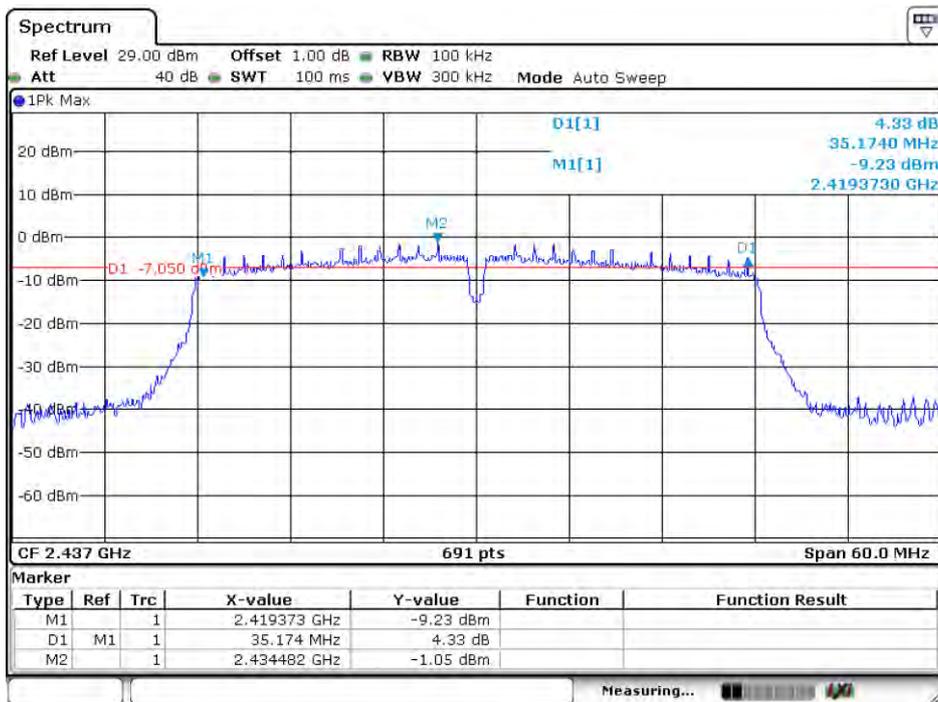
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4.5.2.1.11 802.11 N40_ Middle Channel



Date: 8 JUN.2020 04:00:59



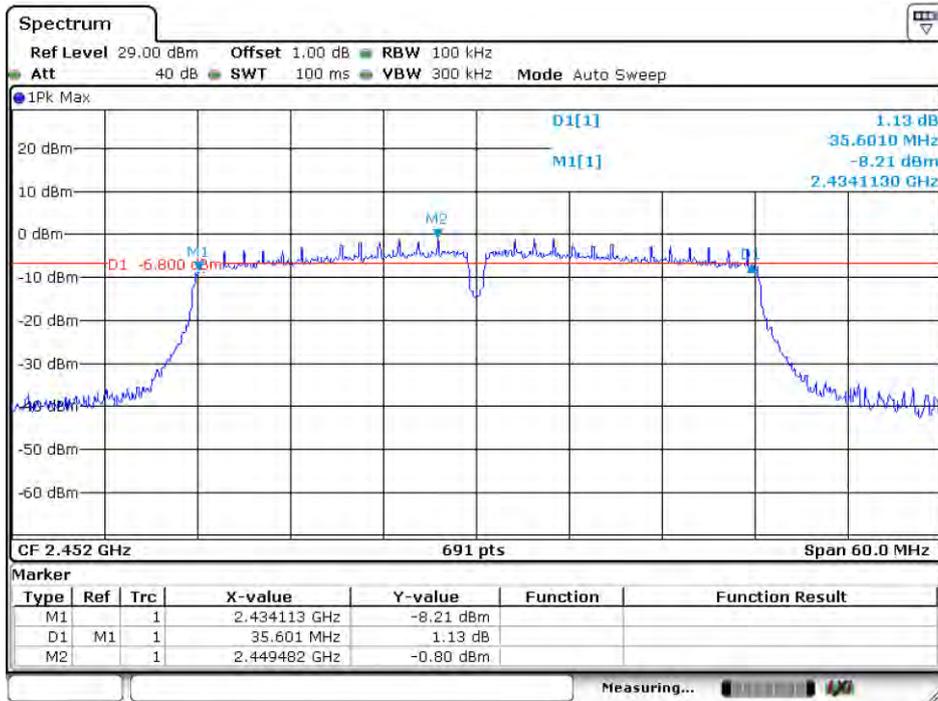
Date: 8 JUN.2020 04:18:42



4.5.2.1.12 802.11 N40_ Highest Channel



Date: 8 JUN.2020 04:00:22



Date: 8 JUN.2020 04:19:46



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

4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11B	Lowest	-3.89	≤8.00	Pass
	Middle	-4.45	≤8.00	Pass
	Highest	-3.55	≤8.00	Pass
802.11G	Lowest	-8.15	≤8.00	Pass
	Middle	-8.35	≤8.00	Pass
	Highest	-8.68	≤8.00	Pass
802.11N20	Lowest	-10.00	≤8.00	Pass
	Middle	-9.99	≤8.00	Pass
	Highest	-10.75	≤8.00	Pass
802.11N40	Lowest	-13.52	≤8.00	Pass
	Middle	-13.95	≤8.00	Pass
	Highest	-13.53	≤8.00	Pass



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4.6.2 Test plots

4.6.2.1 ANT1

4.6.2.1.1 802.11B_Lowest Channel



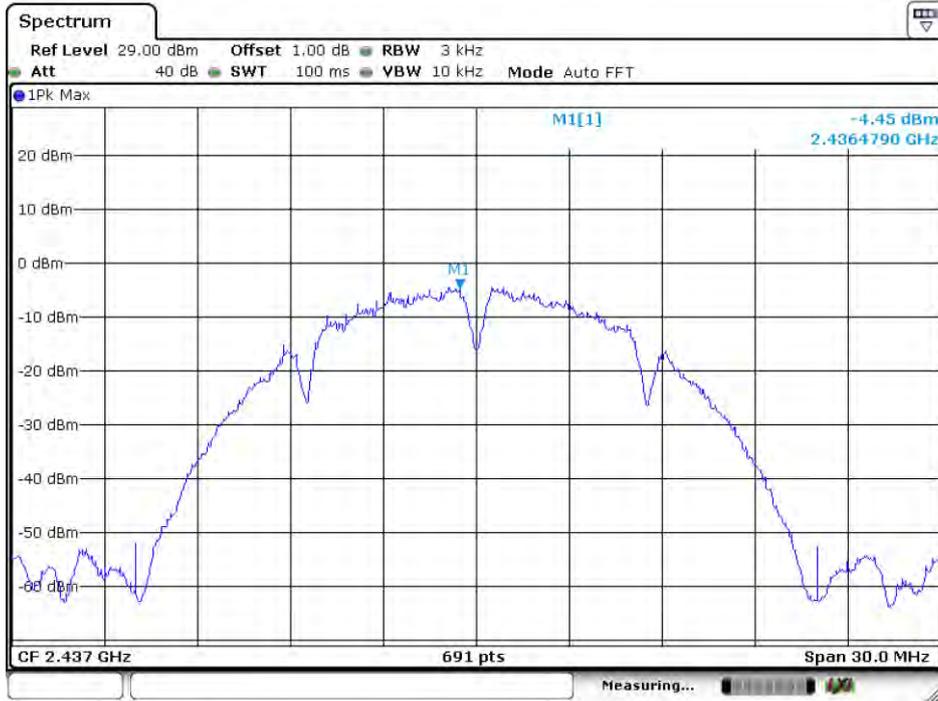
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4.6.2.1.2 802.11B_ Middle Channel



Date: 8 JUN.2020 04:23:08

4.6.2.1.3 802.11B_ Highest Channel

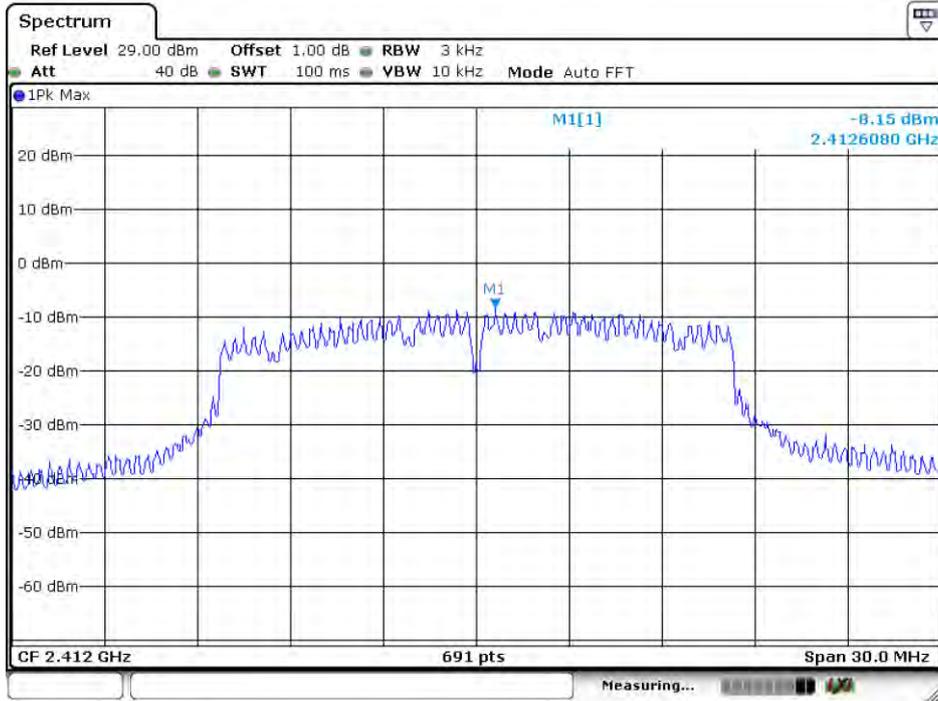


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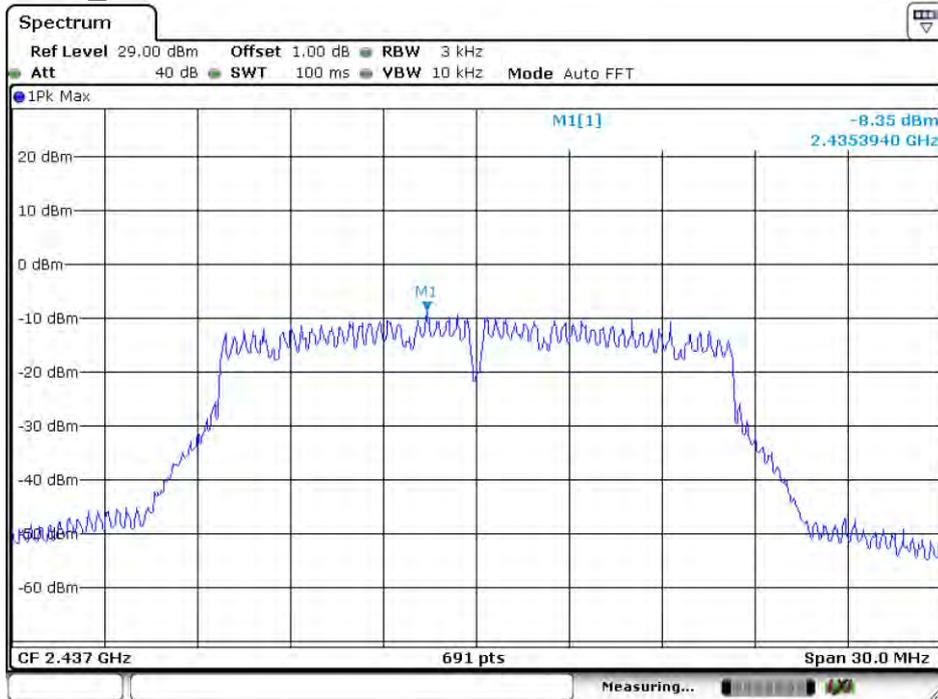
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4.6.2.1.4 802.11G_Lowest Channel



Date: 8 JUN.2020 04:24:04

4.6.2.1.5 802.11G_Middle Channel

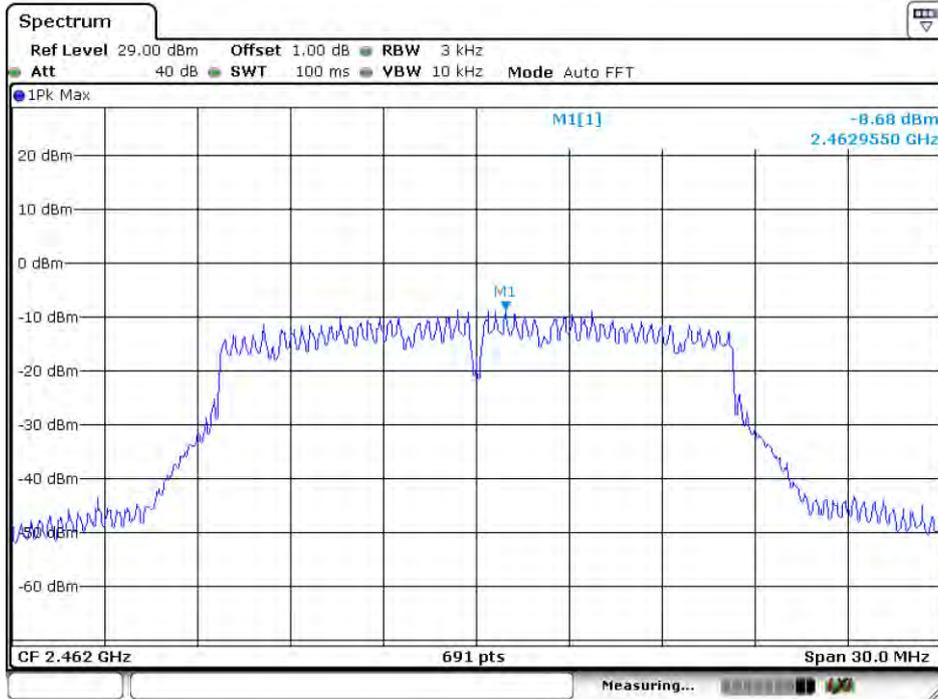


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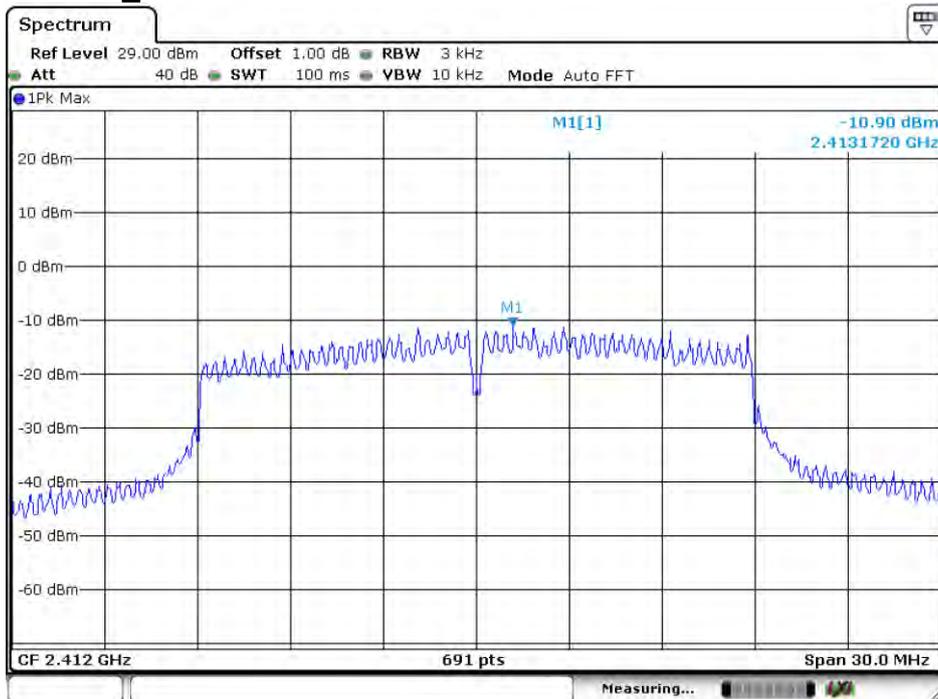
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4.6.2.1.6 802.11G_Highest Channel



Date: 8 JUN.2020 04:24:48

4.6.2.1.7 802.11N20_Lowest Channel



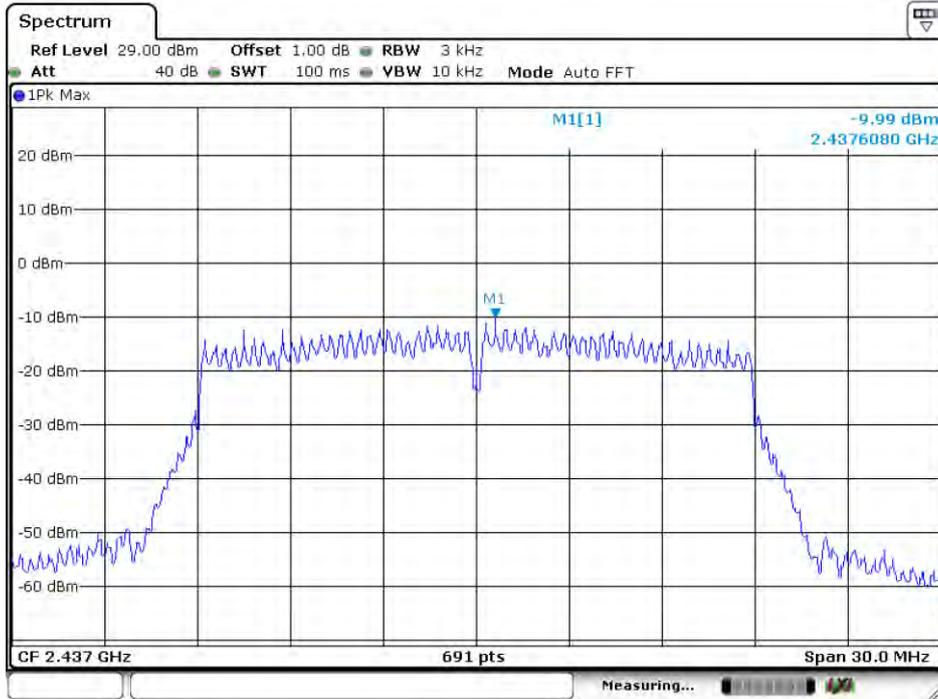
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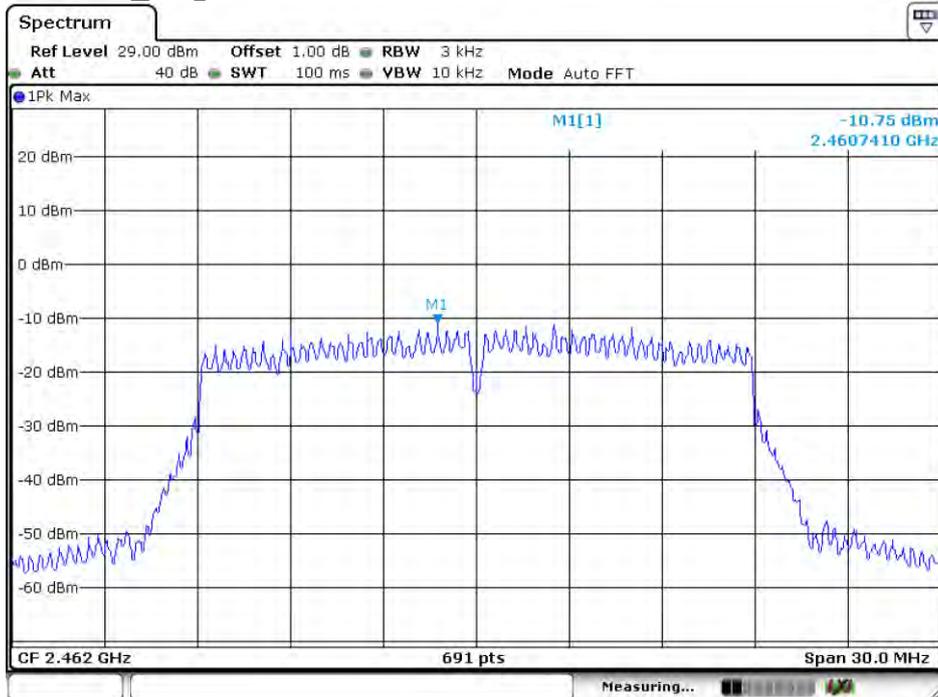
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4.6.2.1.8 802.11 N20_ Middle Channel



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4.6.2.1.9 802.11 N20_ Highest Channel



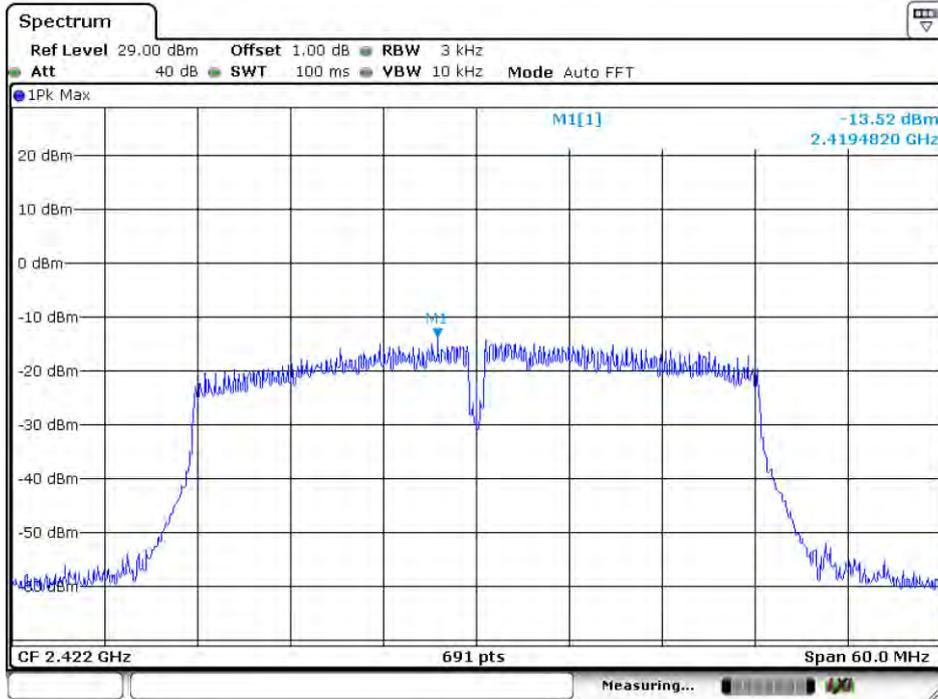
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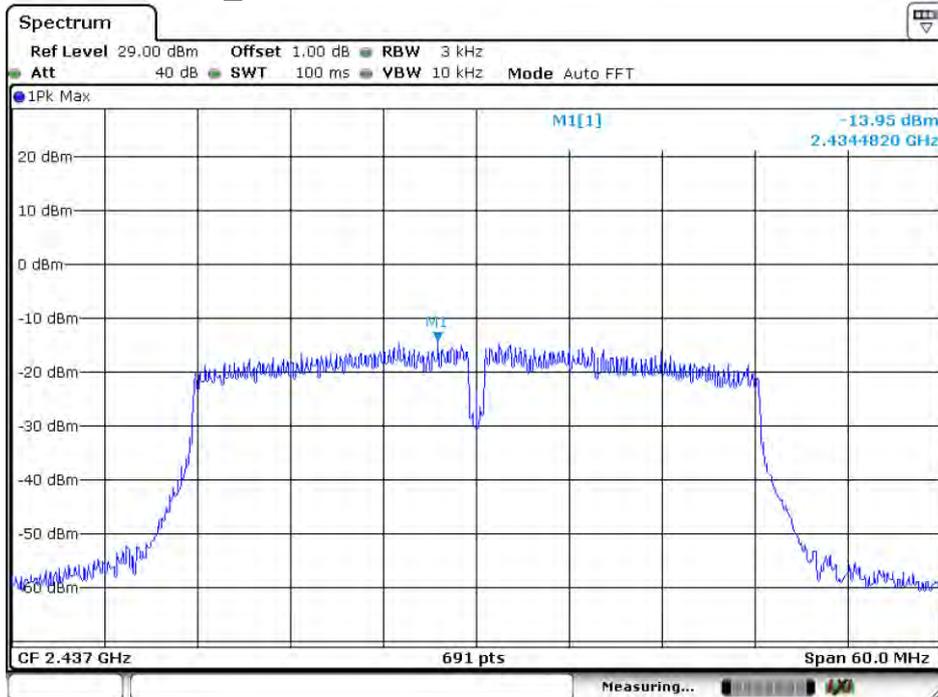
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4.6.2.1.10 802.11N40_Lowest Channel



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4.6.2.1.11 802.11 N40_ Middle Channel



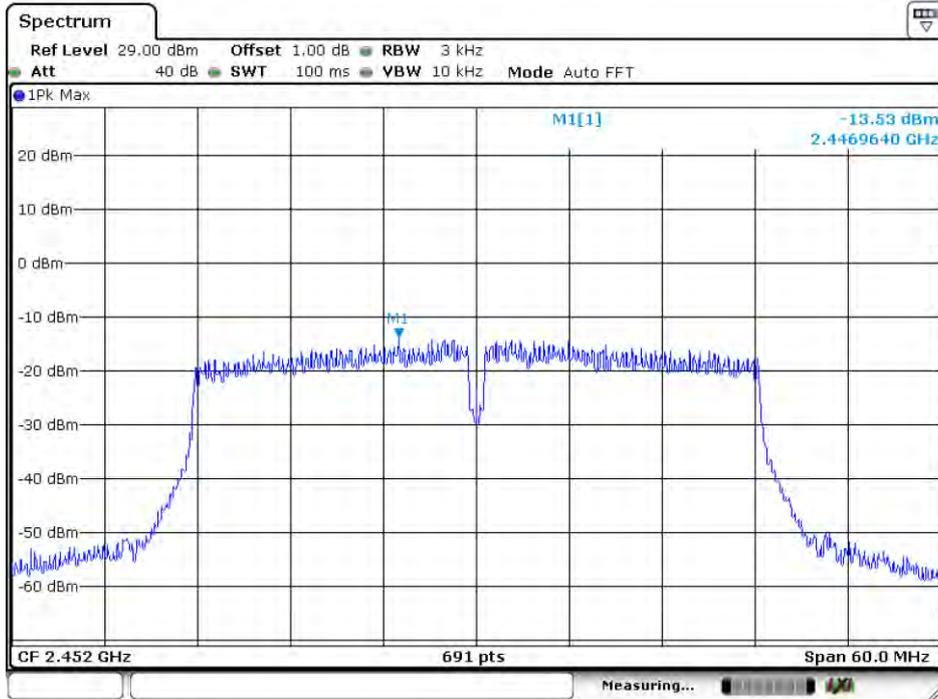
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4.6.2.1.12 802.11 N40_ Highest Channel



Date: 8 JUN.2020 04:20:15



4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20) ; 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



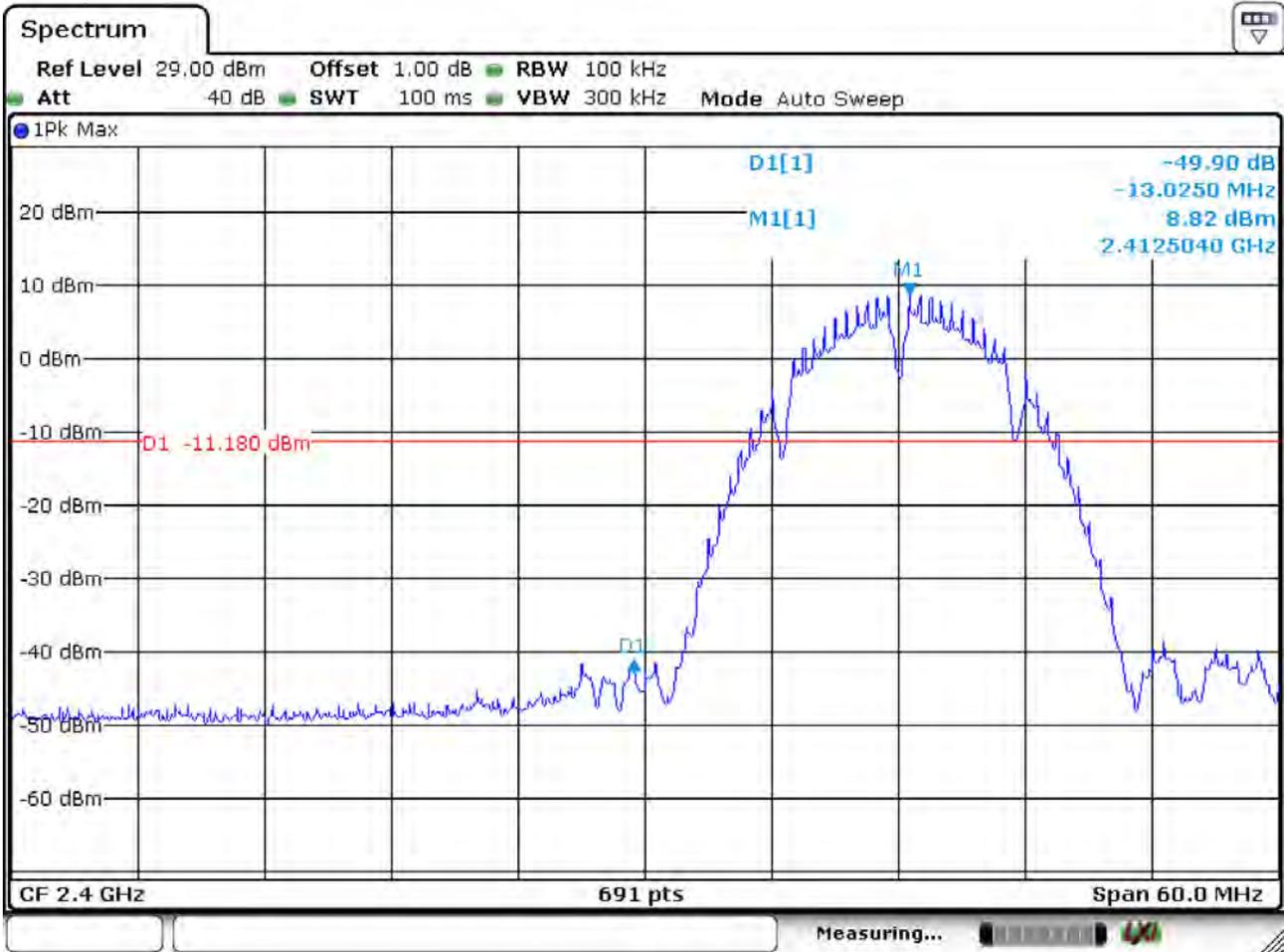
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4.7.1 Test plots

4.7.1.1 ANT1

4.7.1.1.1 802.11B_Lowest Channel



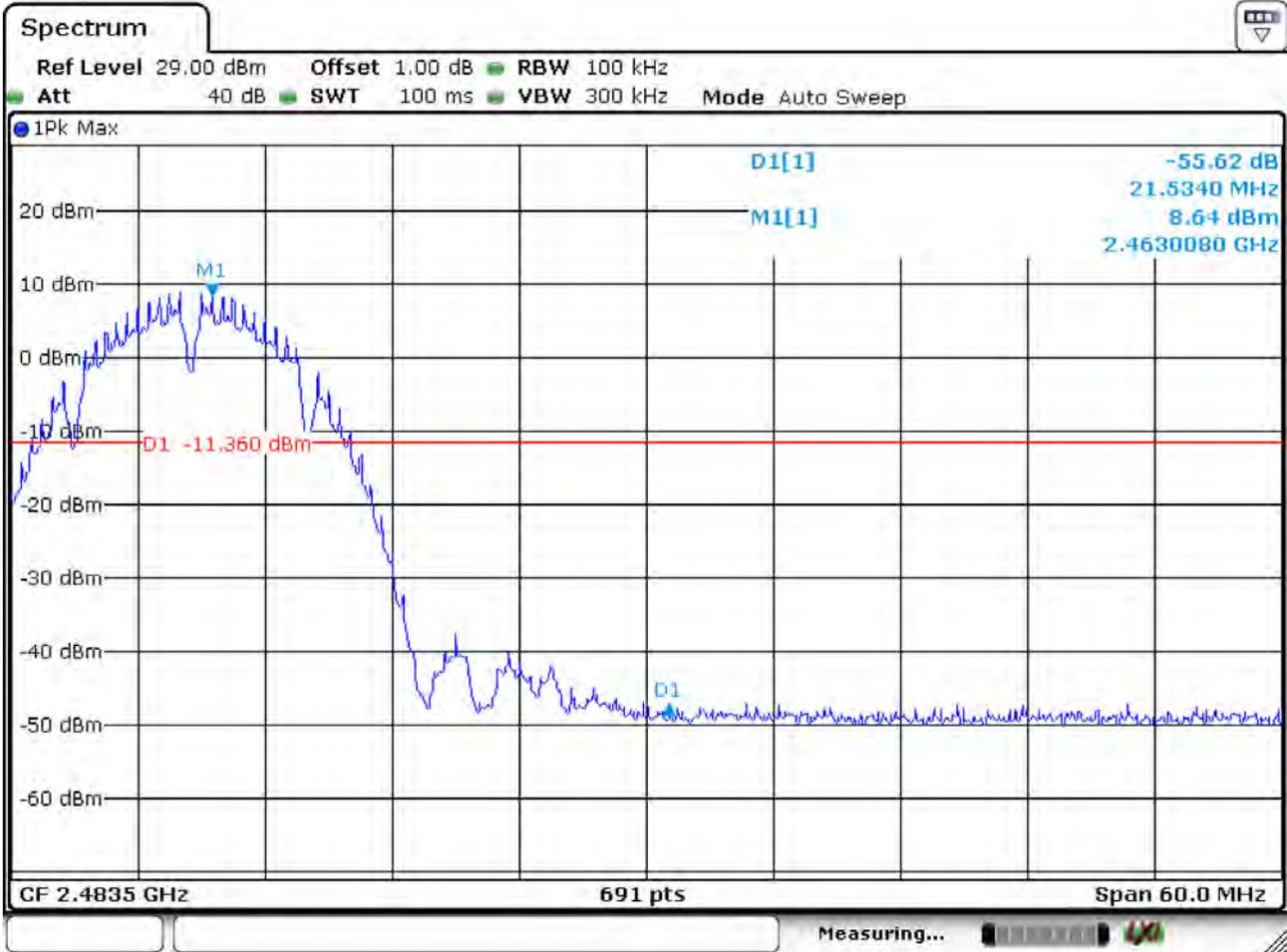
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4.7.1.1.2 802.11B_ Highest Channel



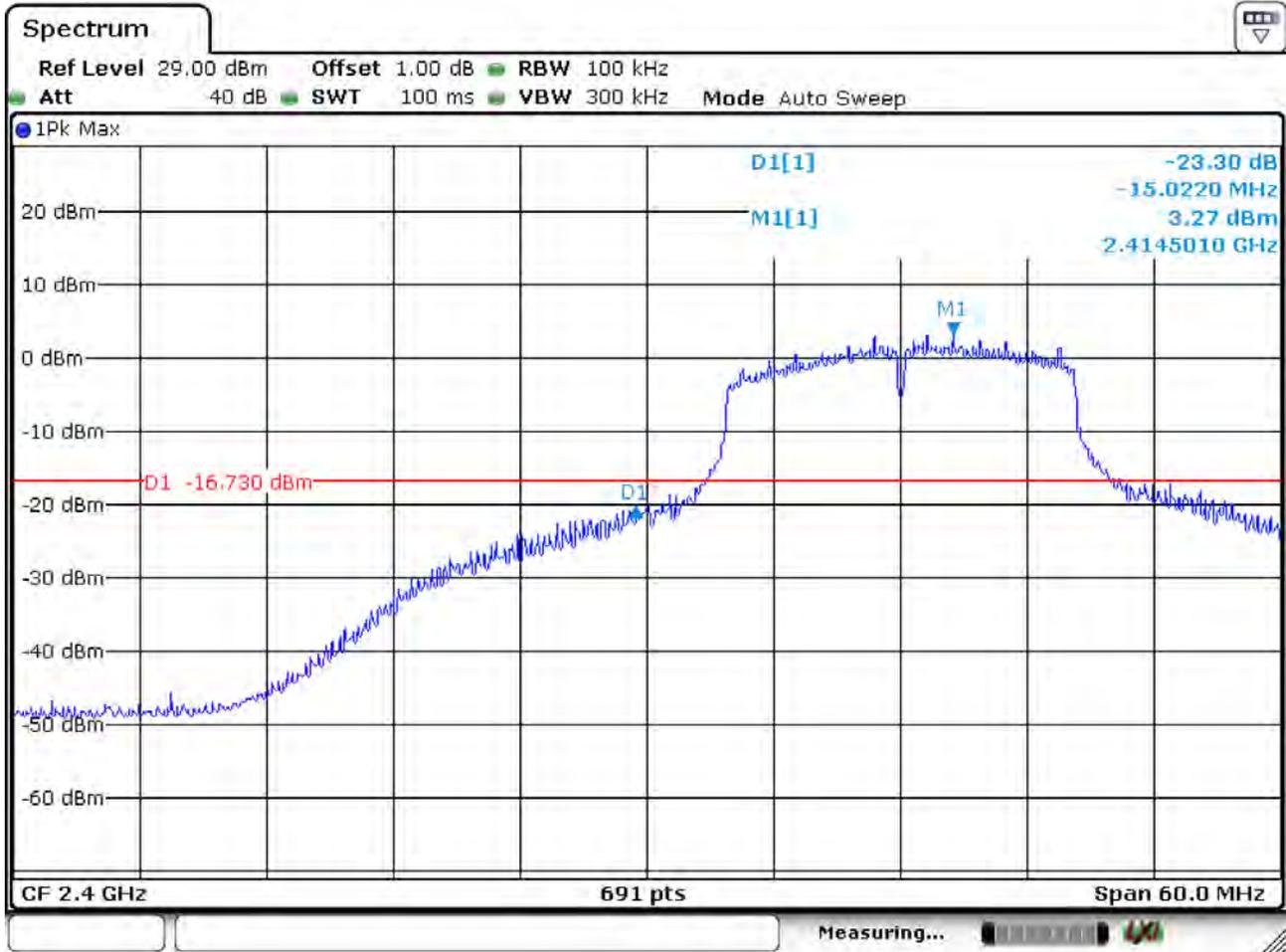
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4.7.1.1.3 802.11G_Lowest Channel



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4.7.1.1.4 802.11G_Highest Channel



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4.7.1.1.5 802.11N20_Lowest Channel



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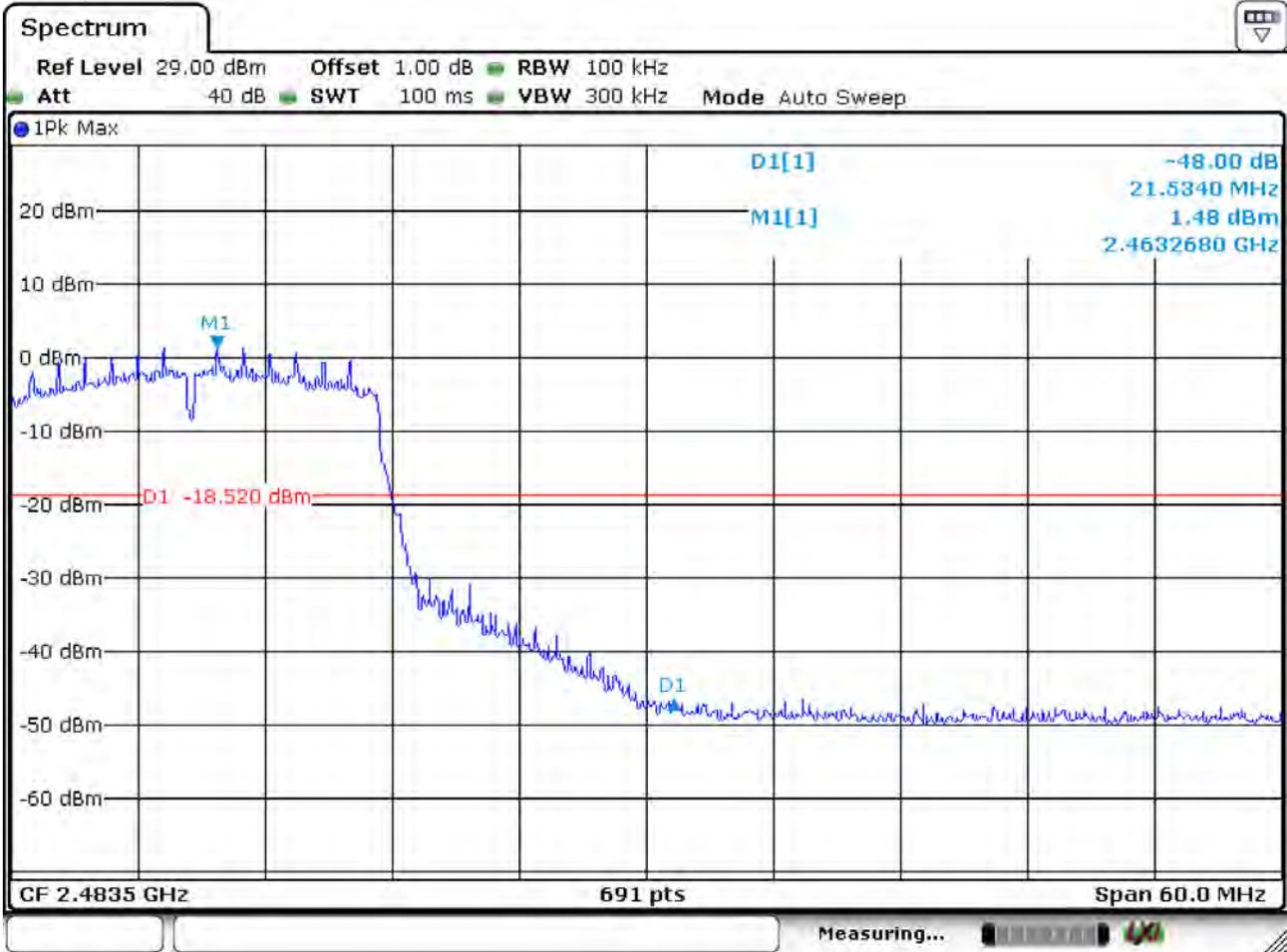
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4.7.1.1.6 802.11 N20_ Highest Channel



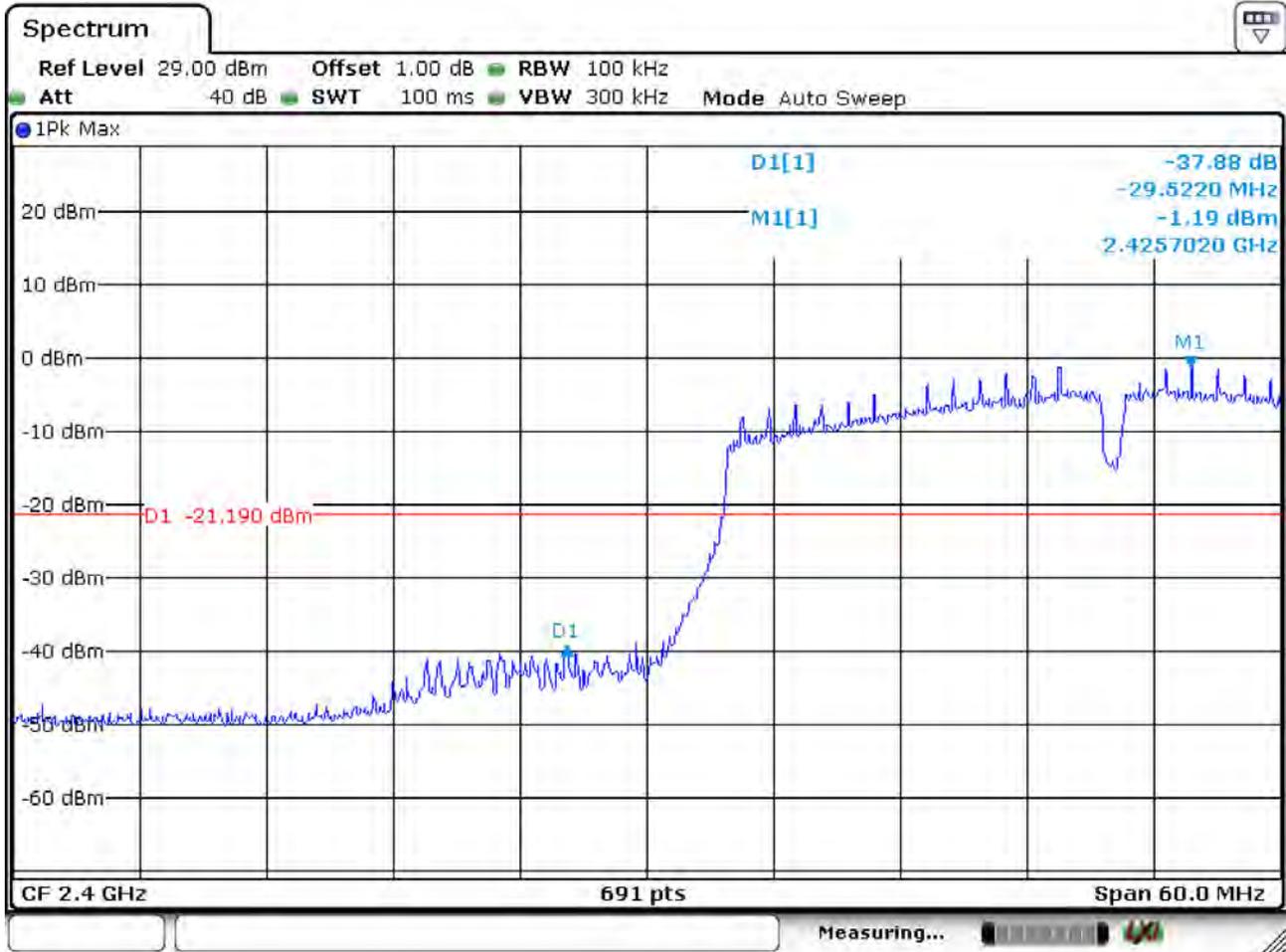
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4.7.1.1.7 802.11N40_Lowest Channel



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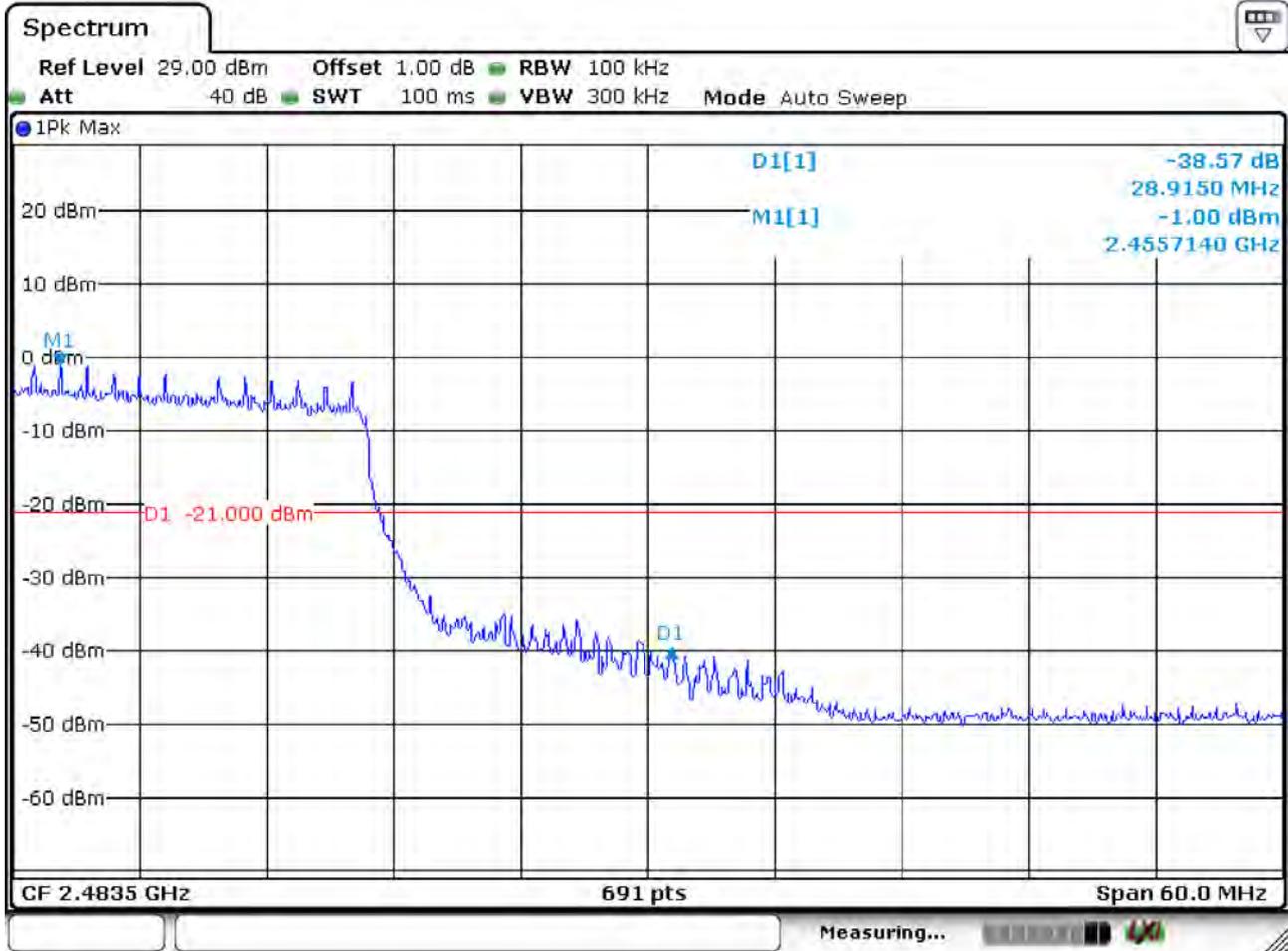
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4.7.1.1.8 802.11 N40_ Highest Channel



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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:	
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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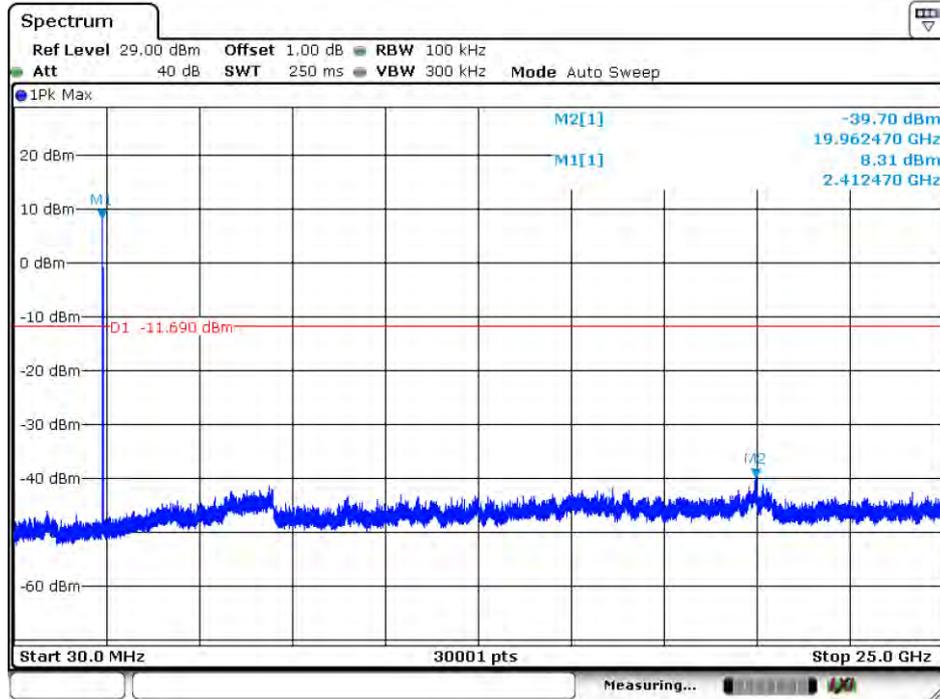
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4.8.1 Test plots

4.8.1.1 ANT1

4.8.1.1.1 802.11B_Lowest Channel

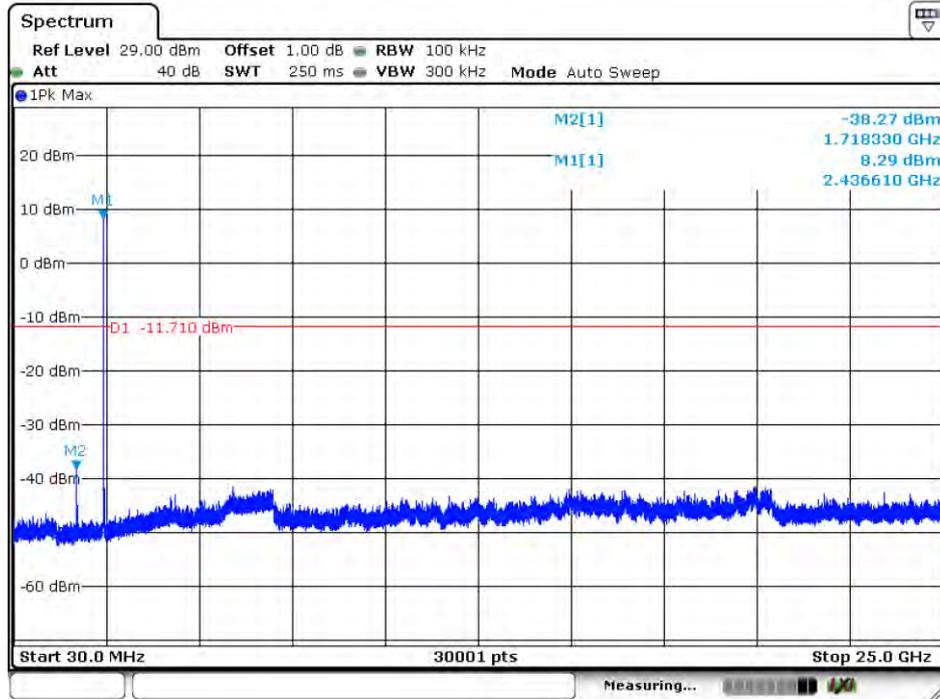


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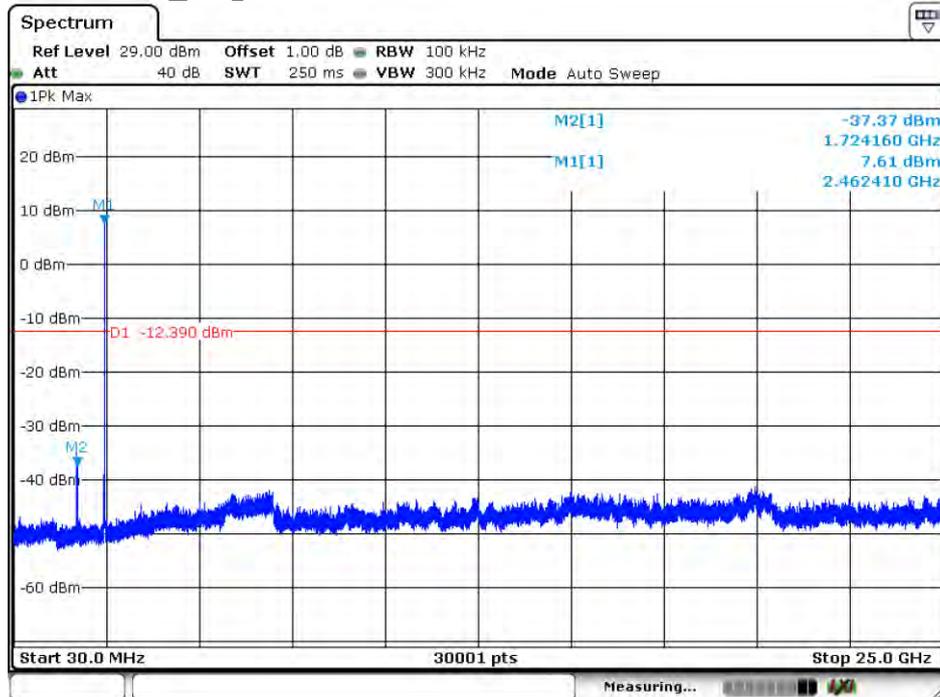
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4.8.1.1.2 802.11B_ Middle Channel



Date: 8 JUN.2020 04:48:40

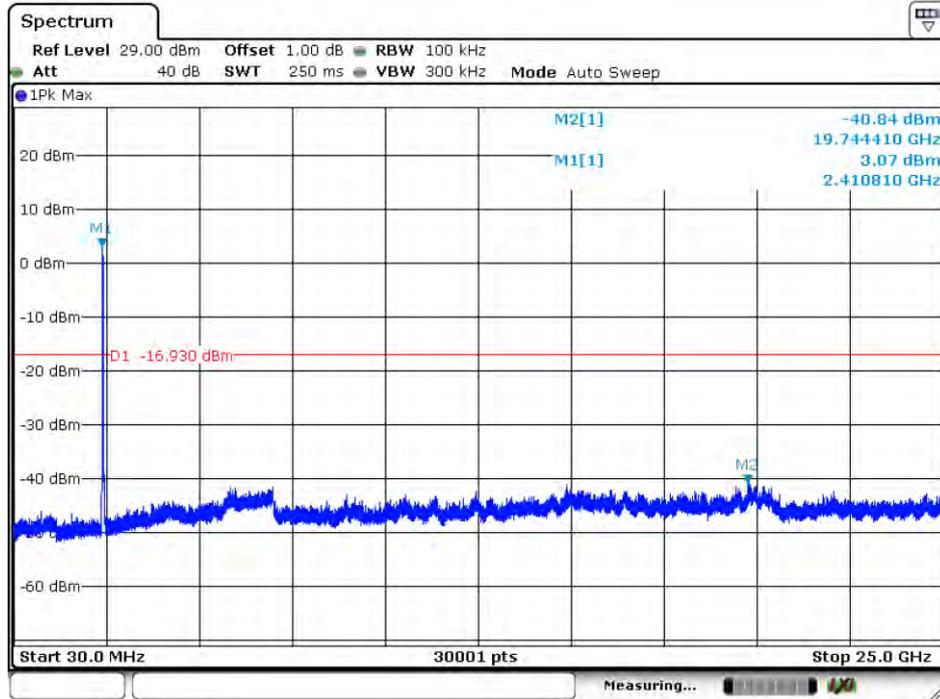
4.8.1.1.3 802.11B_ Highest Channel



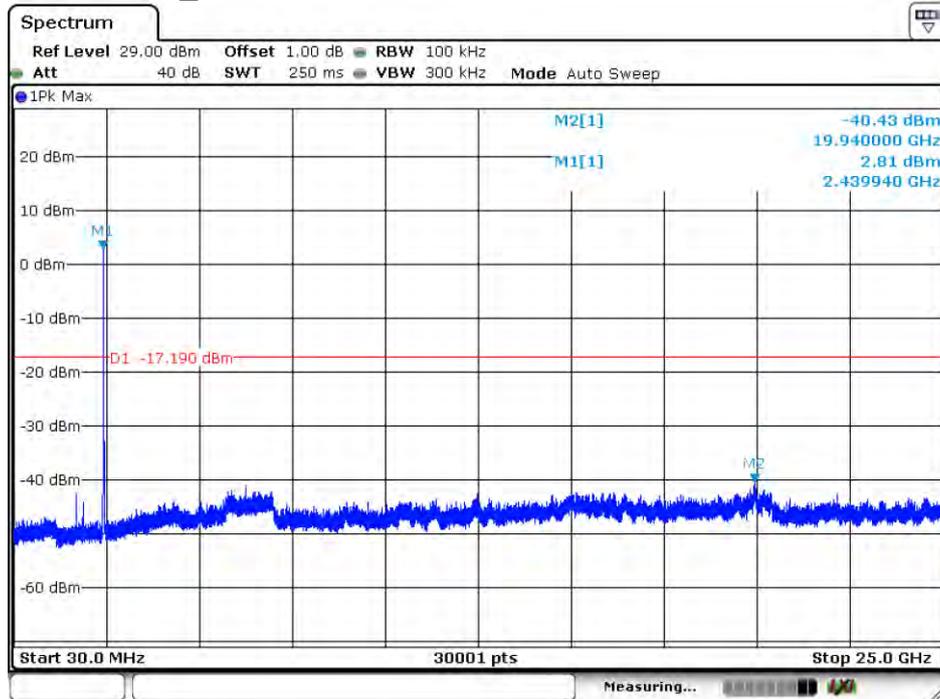
Date: 8 JUN.2020 04:47:30



4.8.1.1.4 802.11G_Lowest Channel



4.8.1.1.5 802.11G_Middle Channel

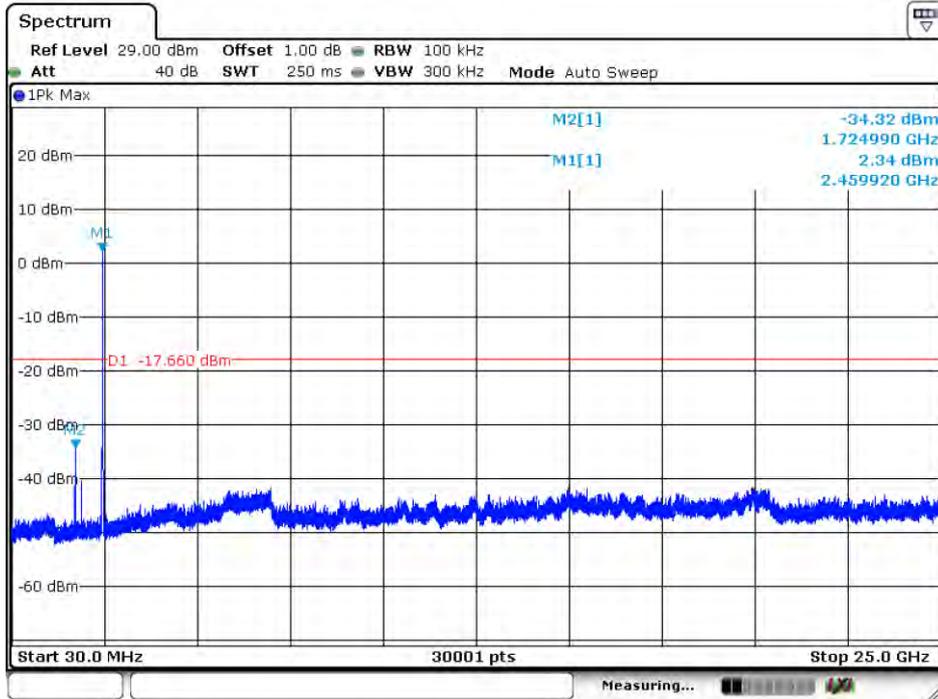


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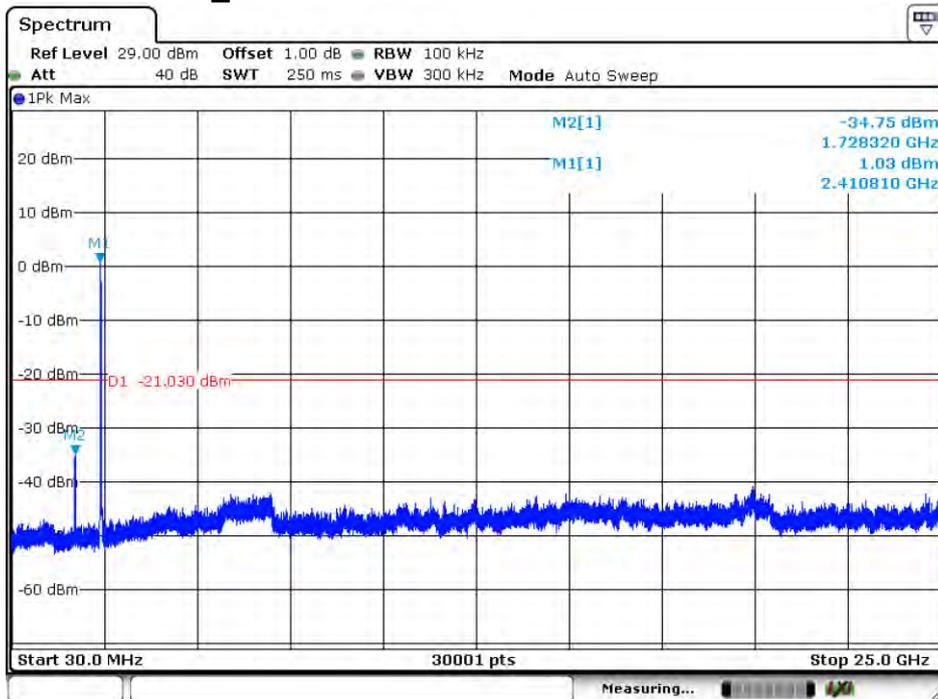
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 Shenzhen Branch, Technical Services Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.8.1.1.6 802.11G_Highest Channel



Date: 8 JUN.2020 04:56:20

4.8.1.1.7 802.11N20_Lowest Channel

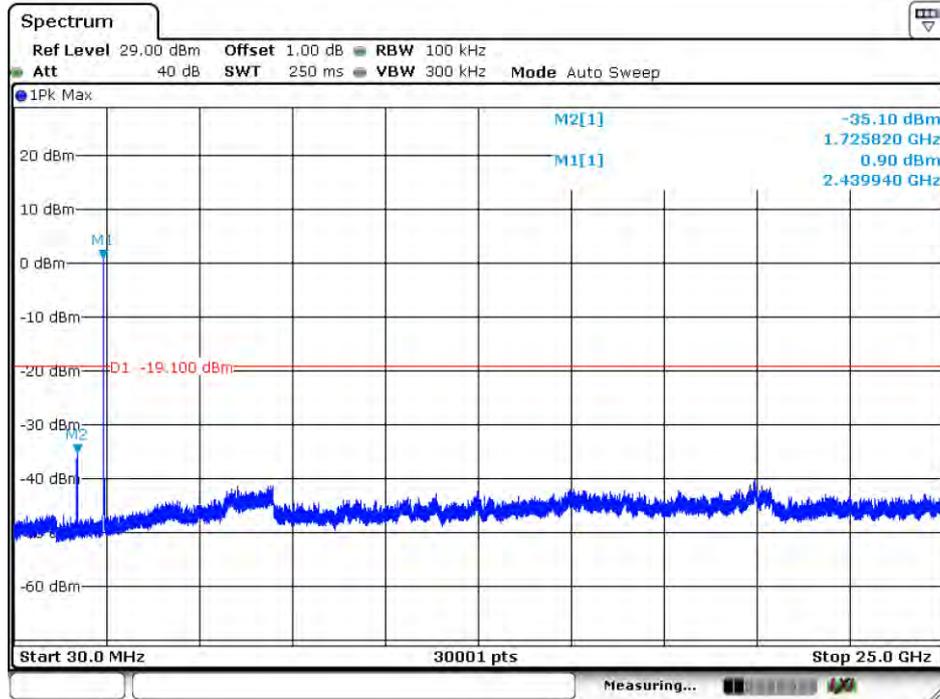


Date: 8 JUN.2020 04:40:42



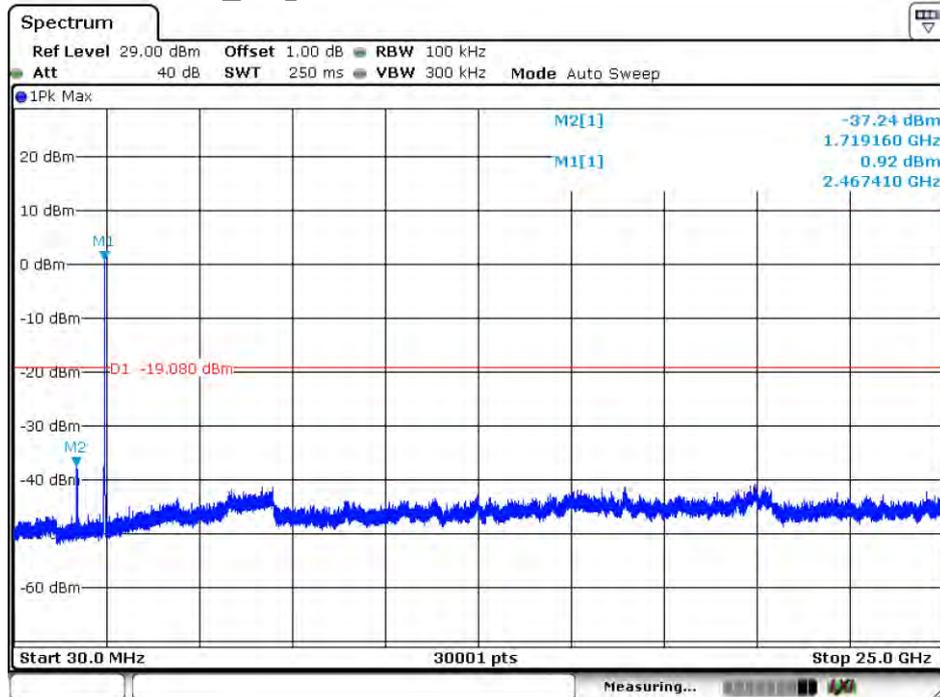
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4.8.1.1.8 802.11 N20_ Middle Channel



Date: 8 JUN.2020 04:43:45

4.8.1.1.9 802.11 N20_ Highest Channel

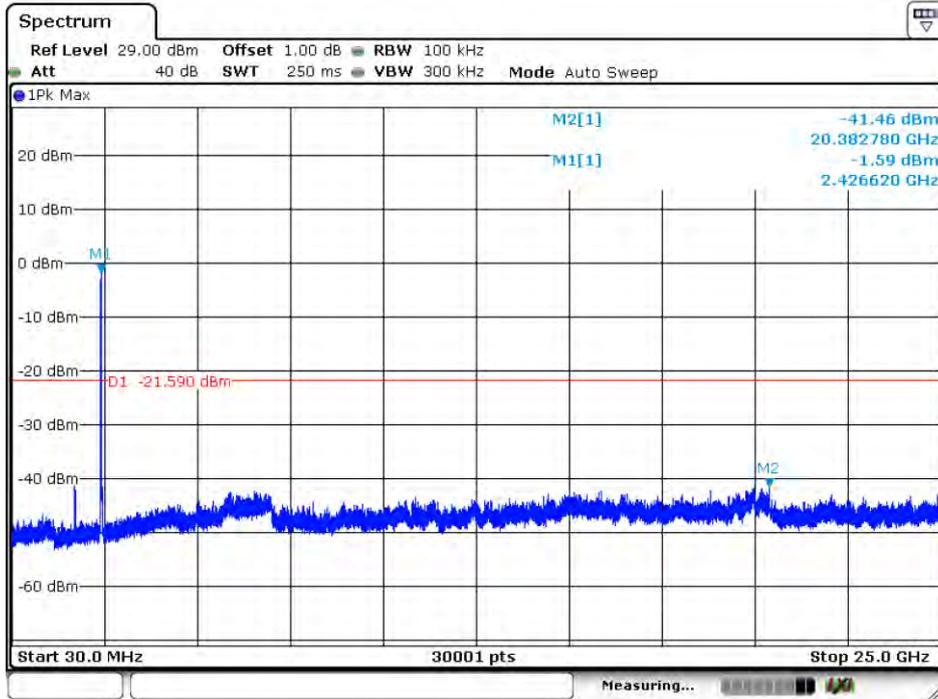


Date: 8 JUN.2020 04:46:37



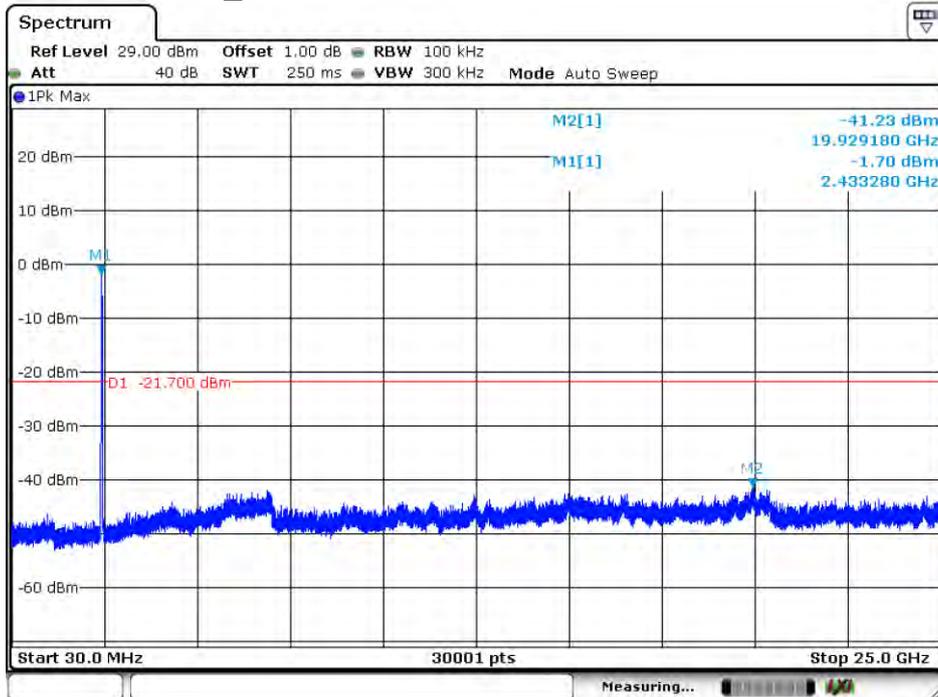
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4.8.1.1.10 802.11N40_Lowest Channel



Date: 8 JUN.2020 04:39:34

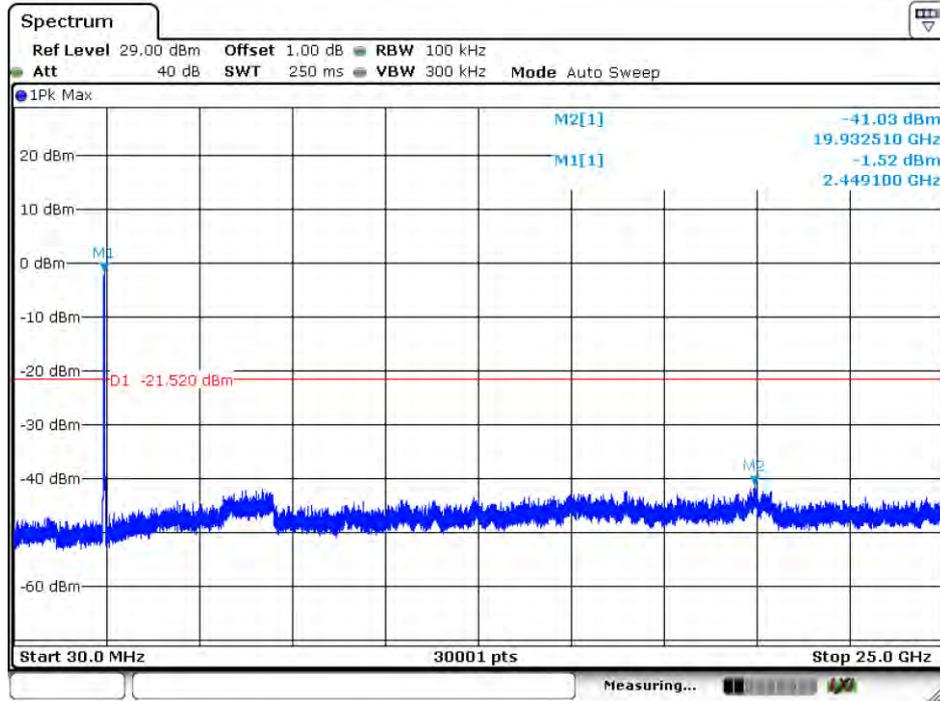
4.8.1.1.11 802.11 N40_ Middle Channel



Date: 8 JUN.2020 04:38:01



4.8.1.1.12 802.11 N40_ Highest Channel



Date: 8 JUN.2020 04:37:04

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.



4.9 Radiated Spurious Emissions

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

Test Setup:	
-------------	--



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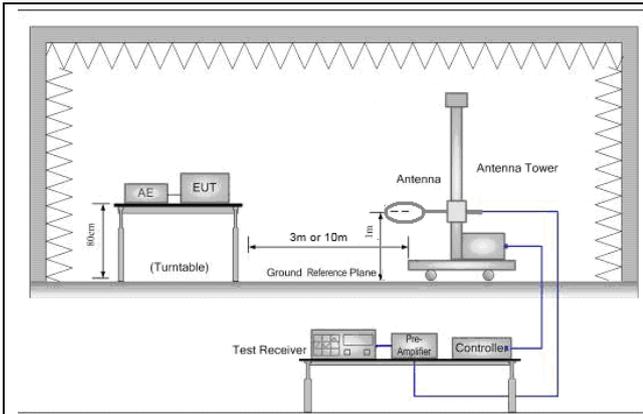


Figure 1. Below 30MHz

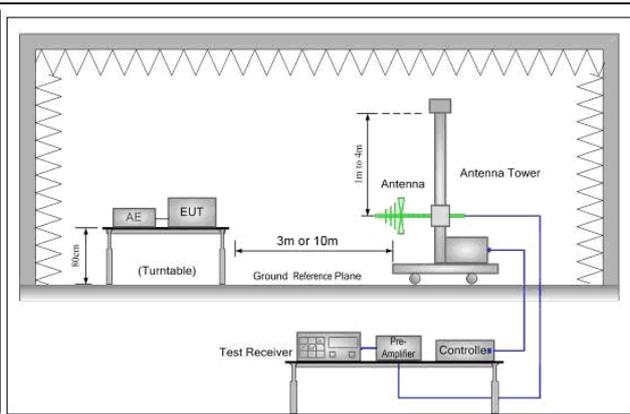


Figure 2. 30MHz to 1GHz

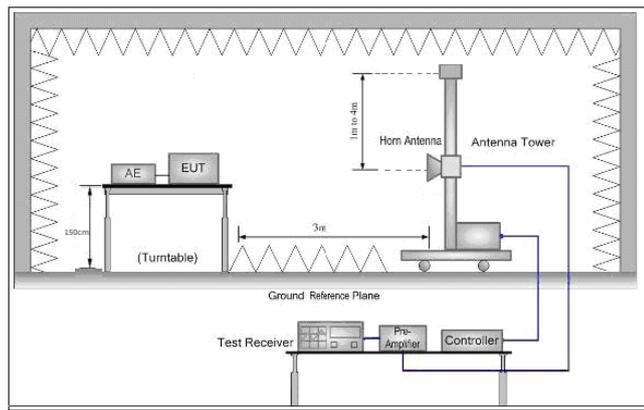


Figure 3. Above 1 GHz

Test Procedure:

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

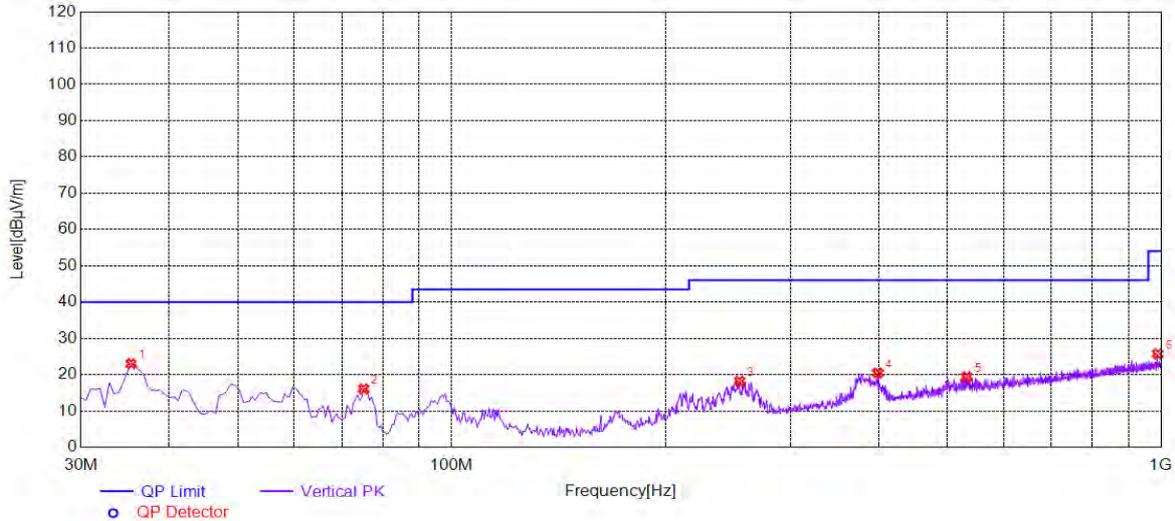


	<p>On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$</p> <p>Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.</p> <p>Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycl}$</p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical

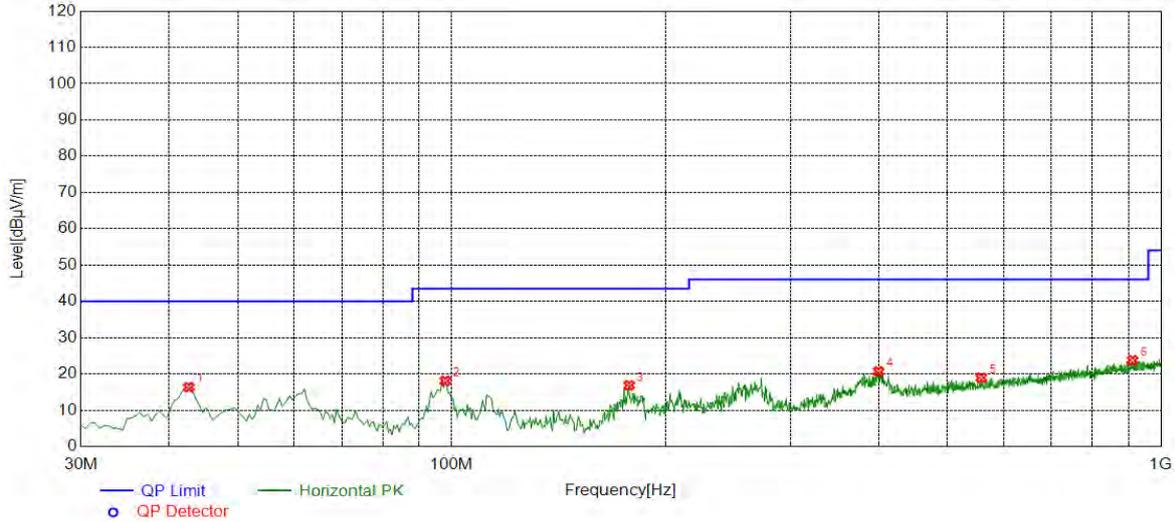


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.3377	23.03	-32.65	40.00	16.97	274	74	Vertical
2	75.1276	16.04	-35.04	40.00	23.96	296	46	Vertical
3	254.667	18.20	-29.11	46.00	27.80	264	329	Vertical
4	398.784	20.43	-24.98	46.00	25.57	210	243	Vertical
5	532.226	19.41	-21.88	46.00	26.59	200	229	Vertical
6	989.324	25.74	-14.00	54.00	28.26	264	150	Vertical



4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.6163	16.35	-30.66	40.00	23.65	104	210	Horizontal
2	97.9340	18.10	-32.04	43.50	25.40	242	254	Horizontal
3	177.999	16.82	-33.05	43.50	26.68	169	254	Horizontal
4	399.754	20.69	-24.96	46.00	25.31	167	242	Horizontal
5	557.944	18.91	-21.23	46.00	27.09	203	102	Horizontal
6	911.685	23.74	-15.05	46.00	22.26	202	19	Horizontal



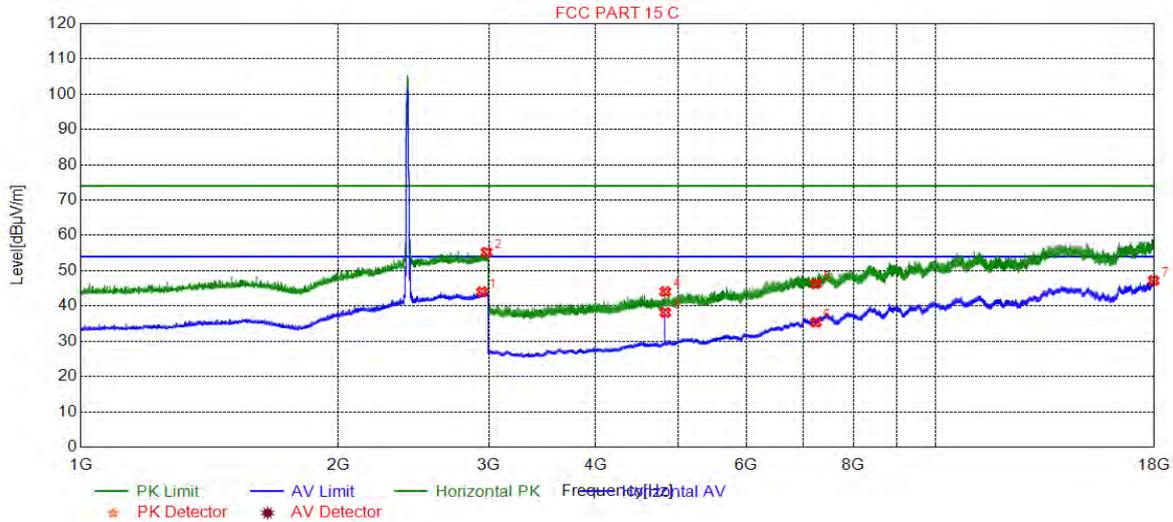
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4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_Lowest Channel_Horizontal



Suspected List

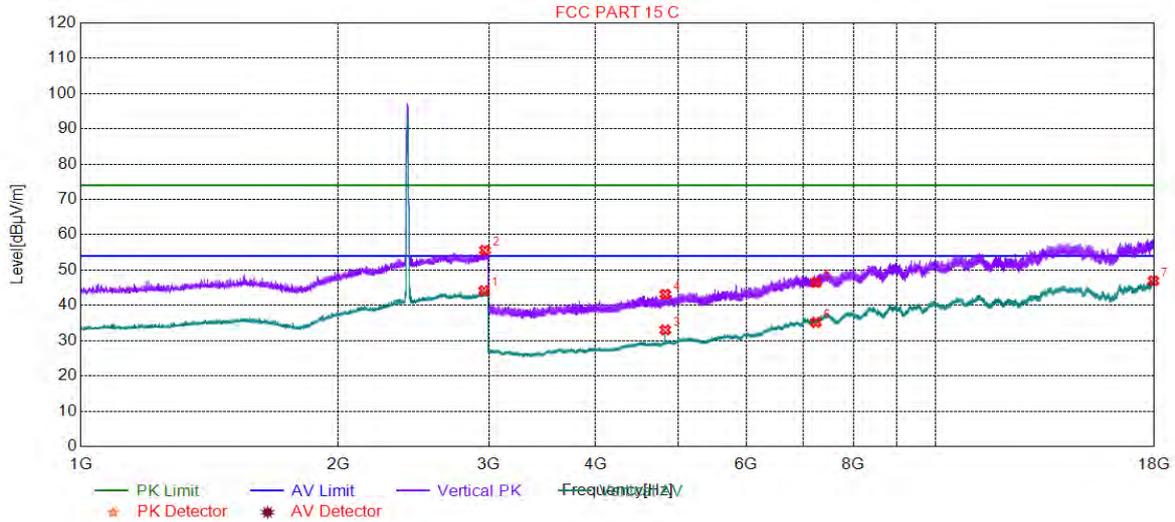
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.48	44.01	9.63	54.00	9.99	158	358	Horizontal
2	2981.99	55.26	9.53	74.00	18.74	154	358	Horizontal
3	4824.00	38.14	-18.21	54.00	15.86	122	238	Horizontal
4	4824.00	44.08	-18.21	74.00	29.92	152	238	Horizontal
5	7236.00	46.26	-9.99	74.00	27.74	165	40	Horizontal
6	7236.00	35.35	-9.99	54.00	18.65	206	90	Horizontal
7	17960.9	47.22	0.71	54.00	6.78	181	191	Horizontal



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4.9.2.1.2 802.11B_Lowest Channel_Vertical



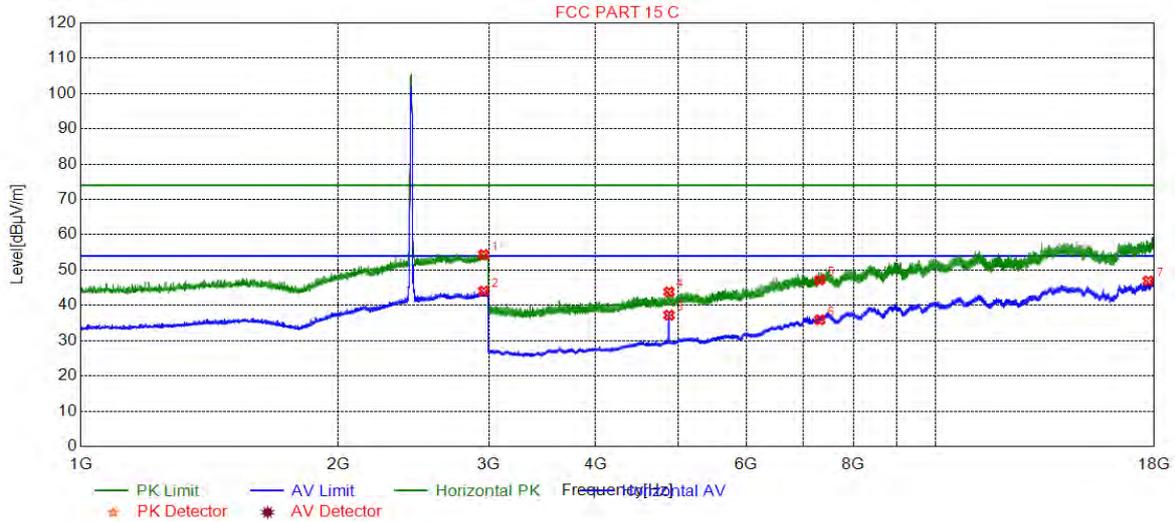
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.49	44.13	9.63	54.00	9.87	153	151	Vertical
2	2968.99	55.61	9.59	74.00	18.39	156	274	Vertical
3	4824.00	33.04	-18.21	54.00	20.96	238	264	Vertical
4	4824.00	43.13	-18.21	74.00	30.87	158	292	Vertical
5	7236.00	46.41	-9.99	74.00	27.59	161	89	Vertical
6	7236.00	35.15	-9.99	54.00	18.85	246	39	Vertical
7	17953.7	46.95	0.71	54.00	7.05	297	140	Vertical



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4.9.2.1.3 802.11B_ Middle Channel_ Horizontal



Suspected List

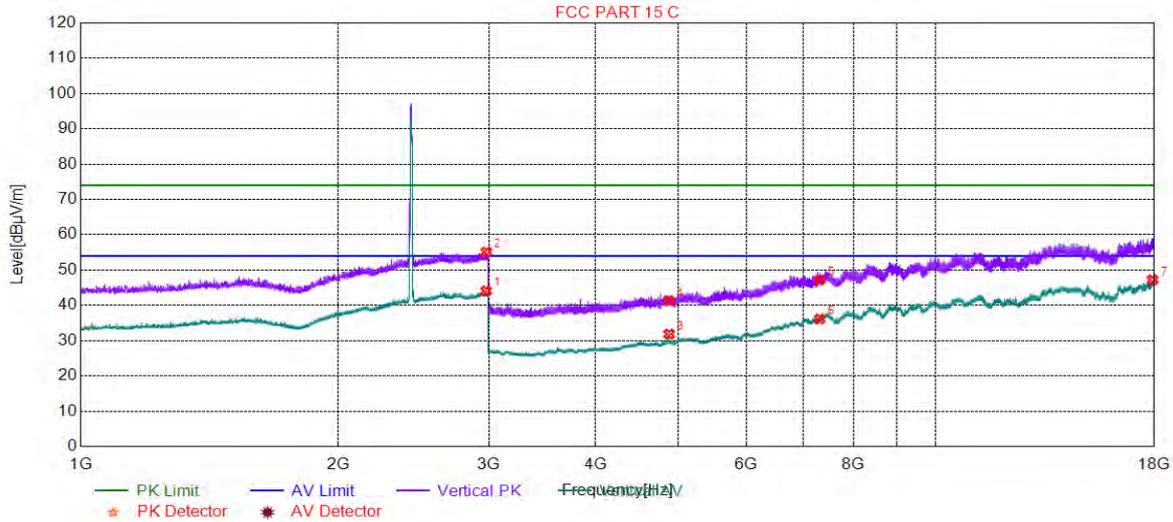
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1	2957.98	54.40	9.64	74.00	19.60	191	142	Horizontal
2	2957.98	44.03	9.64	54.00	9.97	100	251	Horizontal
3	4874.00	37.21	-17.99	54.00	16.79	146	236	Horizontal
4	4874.00	43.81	-17.99	74.00	30.19	116	236	Horizontal
5	7311.00	47.14	-9.74	74.00	26.86	233	190	Horizontal
6	7311.00	35.87	-9.74	54.00	18.13	172	0	Horizontal
7	17704.6	46.92	1.27	54.00	7.08	105	39	Horizontal



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4.9.2.1.4 802.11B_ Middle Channel_ Vertical



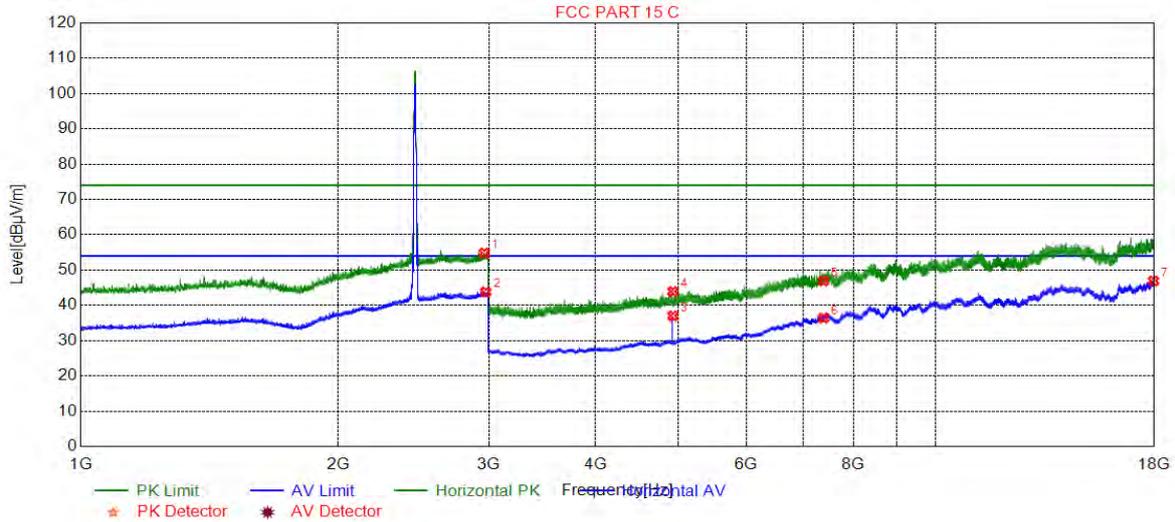
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.49	44.07	9.55	54.00	9.93	187	164	Vertical
2	2980.49	55.11	9.54	74.00	18.89	225	178	Vertical
3	4874.00	31.85	-17.99	54.00	22.15	184	265	Vertical
4	4874.00	41.30	-17.99	74.00	32.70	278	265	Vertical
5	7311.00	47.12	-9.74	74.00	26.88	248	0	Vertical
6	7311.00	36.14	-9.74	54.00	17.86	216	141	Vertical
7	17913.6	47.22	0.69	54.00	6.78	288	342	Vertical



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4.9.2.1.5 802.11B_ Highest Channel_ Horizontal



Suspected List

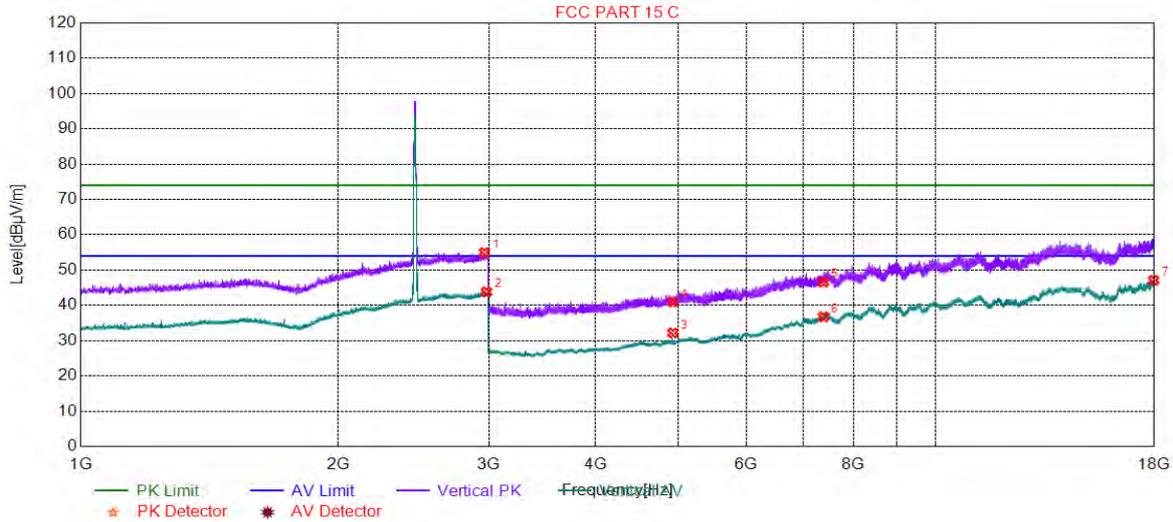
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.99	54.83	9.62	74.00	19.17	191	238	Horizontal
2	2975.49	43.80	9.56	54.00	10.20	102	113	Horizontal
3	4924.00	37.00	-17.72	54.00	17.00	186	208	Horizontal
4	4924.00	43.91	-17.72	74.00	30.09	216	360	Horizontal
5	7386.00	46.90	-9.55	74.00	27.10	182	91	Horizontal
6	7386.00	36.37	-9.55	54.00	17.63	111	191	Horizontal
7	17953.7	46.87	0.71	54.00	7.13	139	242	Horizontal



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4.9.2.1.6 802.11B_ Highest Channel_ Vertical



Suspected List

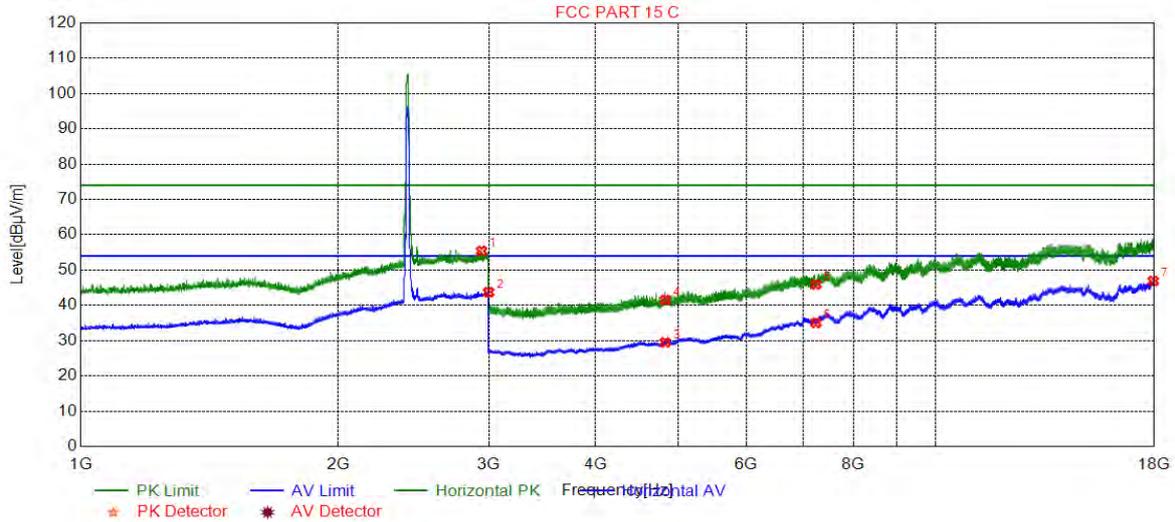
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.99	54.96	9.61	74.00	19.04	179	2	Vertical
2	2981.49	43.82	9.54	54.00	10.18	281	95	Vertical
3	4924.00	32.18	-17.72	54.00	21.82	252	266	Vertical
4	4924.00	40.94	-17.72	74.00	33.06	260	320	Vertical
5	7386.00	46.57	-9.55	74.00	27.43	262	0	Vertical
6	7386.00	36.73	-9.55	54.00	17.27	270	242	Vertical
7	17962.0	47.09	0.71	54.00	6.91	171	242	Vertical



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4.9.2.1.7 802.11G_Lowest Channel_Horizontal



Suspected List

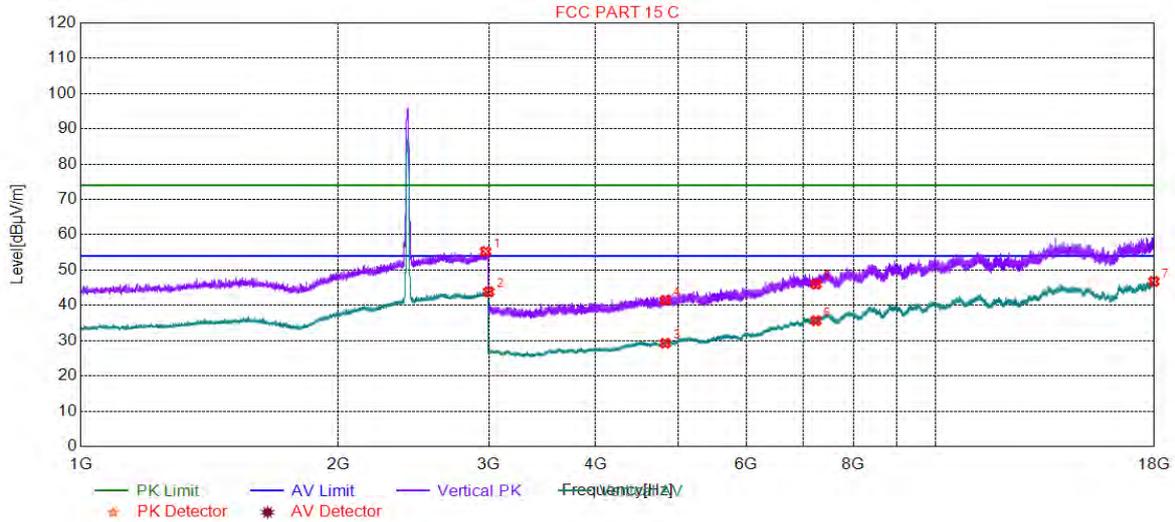
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.98	55.38	9.59	74.00	18.62	150	18	Horizontal
2	2998.49	43.70	9.46	54.00	10.30	177	129	Horizontal
3	4824.00	29.50	-18.21	54.00	24.50	117	210	Horizontal
4	4824.00	41.53	-18.21	74.00	32.47	214	73	Horizontal
5	7236.00	45.89	-9.99	74.00	28.11	219	90	Horizontal
6	7236.00	35.05	-9.99	54.00	18.95	143	191	Horizontal
7	17942.2	46.86	0.70	54.00	7.14	155	191	Horizontal



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4.9.2.1.8 802.11G_Lowest Channel_Vertical



Suspected List

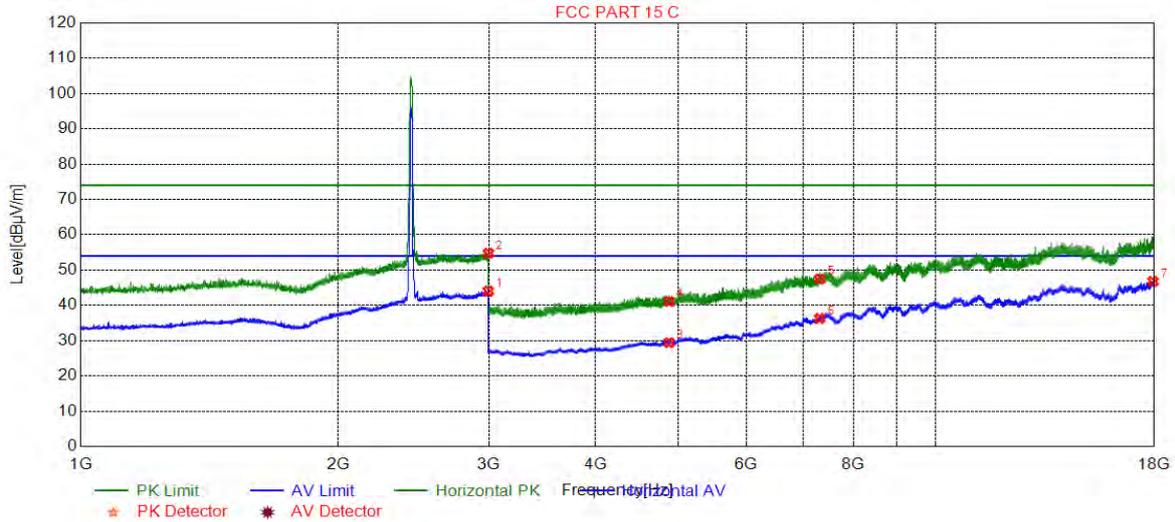
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.49	55.26	9.57	74.00	18.74	162	274	Vertical
2	2998.99	43.82	9.45	54.00	10.18	225	247	Vertical
3	4824.00	29.25	-18.21	54.00	24.75	248	238	Vertical
4	4824.00	41.44	-18.21	74.00	32.56	286	183	Vertical
5	7236.00	45.99	-9.99	74.00	28.01	174	0	Vertical
6	7236.00	35.65	-9.99	54.00	18.35	267	93	Vertical
7	17974.6	46.75	0.71	54.00	7.25	278	241	Vertical



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4.9.2.1.9 802.11G_ Middle Channel_ Horizontal



Suspected List

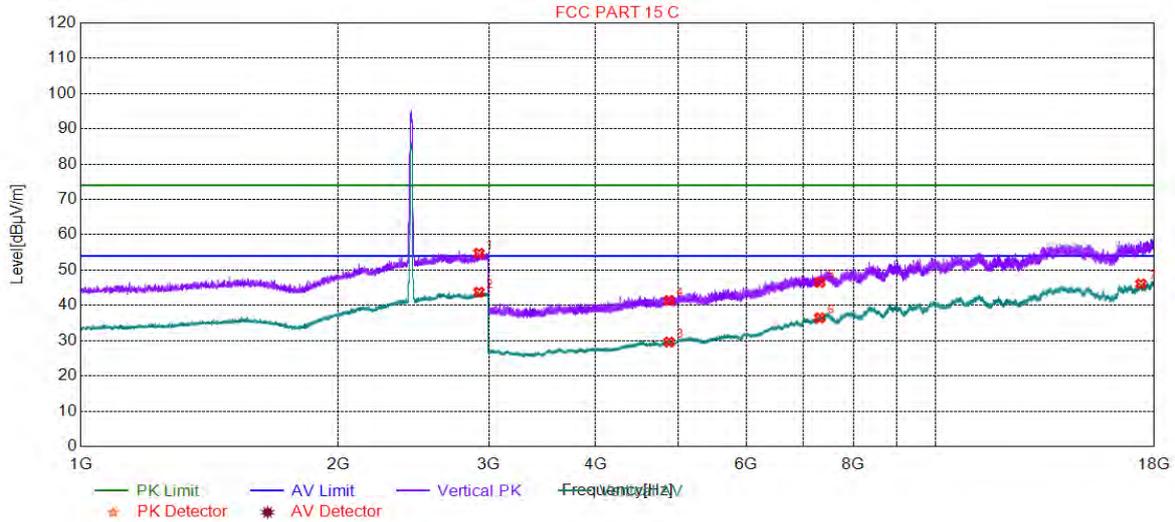
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2995.99	44.01	9.47	54.00	9.99	145	45	Horizontal
2	2997.49	54.77	9.46	74.00	19.23	145	294	Horizontal
3	4874.00	29.42	-17.99	54.00	24.58	117	182	Horizontal
4	4874.00	41.10	-17.99	74.00	32.90	155	155	Horizontal
5	7311.00	47.44	-9.74	74.00	26.56	189	291	Horizontal
6	7311.00	36.28	-9.74	54.00	17.72	224	342	Horizontal
7	17929.5	46.76	0.70	54.00	7.24	231	140	Horizontal



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4.9.2.1.10 802.11G_Middle Channel_Vertical



Suspected List

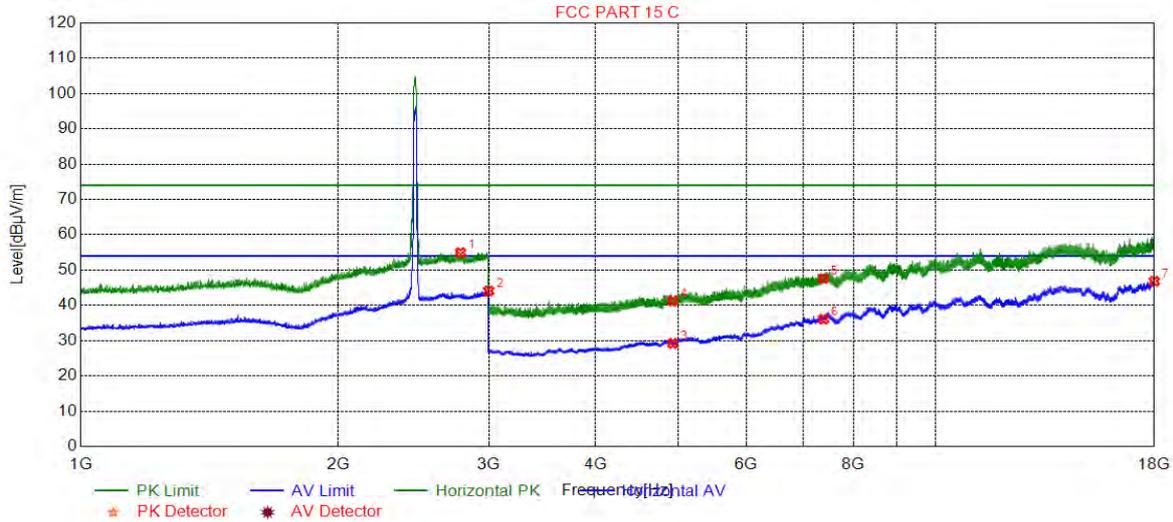
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.48	54.77	9.37	74.00	19.23	243	70	Vertical
2	2921.98	43.73	9.38	54.00	10.27	166	97	Vertical
3	4874.00	29.59	-17.99	54.00	24.41	225	333	Vertical
4	4874.00	41.37	-17.99	74.00	32.63	159	189	Vertical
5	7311.00	46.51	-9.74	74.00	27.49	230	40	Vertical
6	7311.00	36.43	-9.74	54.00	17.57	244	90	Vertical
7	17360.3	46.07	0.09	54.00	7.93	154	342	Vertical



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4.9.2.1.11 802.11G_ Highest Channel_ Horizontal



Suspected List

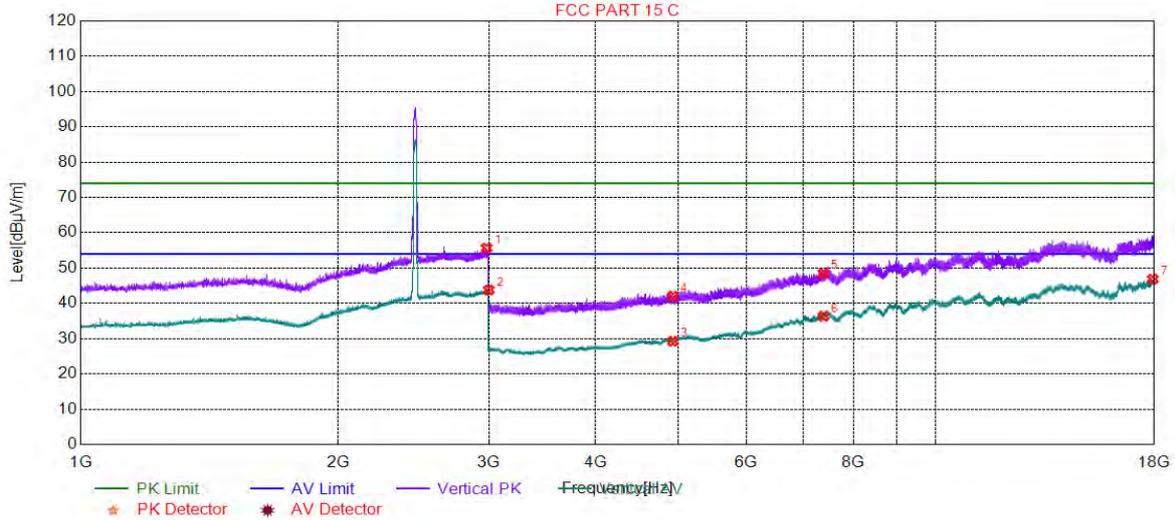
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2779.94	54.92	9.03	74.00	19.08	191	238	Horizontal
2	2998.49	44.04	9.46	54.00	9.96	102	113	Horizontal
3	4924.00	29.20	-17.72	54.00	24.80	186	208	Horizontal
4	4924.00	41.26	-17.72	74.00	32.74	216	360	Horizontal
5	7386.00	47.60	-9.55	74.00	26.40	182	91	Horizontal
6	7386.00	36.06	-9.55	54.00	17.94	111	191	Horizontal
7	17995.5	46.79	0.72	54.00	7.21	139	242	Horizontal



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4.9.2.1.12 802.11G_Highest Channel_Vertical



Suspected List

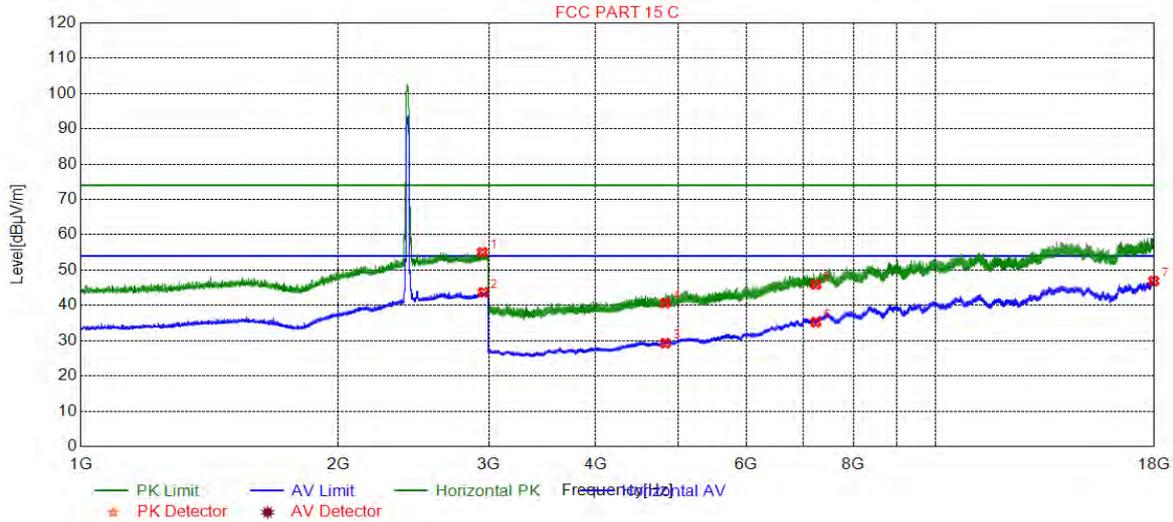
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.49	55.67	9.53	74.00	18.33	166	328	Vertical
2	3000.00	43.77	9.45	54.00	10.23	179	247	Vertical
3	4924.00	29.25	-17.72	54.00	24.75	264	320	Vertical
4	4924.00	42.04	-17.72	74.00	31.96	186	46	Vertical
5	7386.00	48.48	-9.55	74.00	25.52	274	90	Vertical
6	7386.00	36.33	-9.55	54.00	17.67	233	292	Vertical
7	17919.1	46.86	0.70	54.00	7.14	245	292	Vertical



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4.9.2.1.13 802.11N20_Lowest Channel_Horizontal



Suspected List

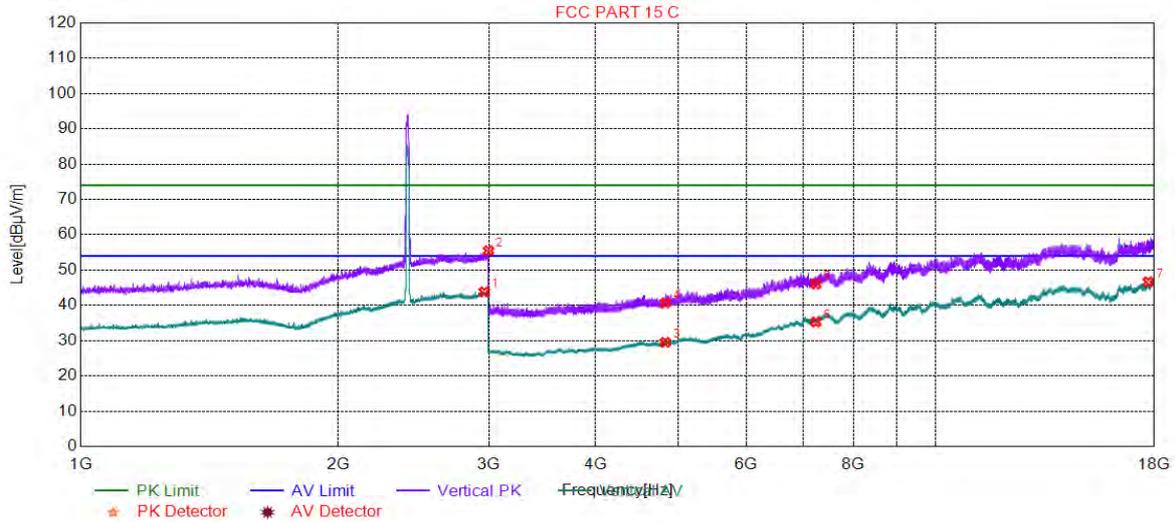
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.98	55.01	9.67	74.00	18.99	102	360	Horizontal
2	2955.98	43.68	9.65	54.00	10.32	202	126	Horizontal
3	4824.00	29.25	-18.21	54.00	24.75	111	348	Horizontal
4	4824.00	40.64	-18.21	74.00	33.36	232	18	Horizontal
5	7236.00	45.89	-9.99	74.00	28.11	149	191	Horizontal
6	7236.00	35.24	-9.99	54.00	18.76	142	91	Horizontal
7	17964.7	46.88	0.71	54.00	7.12	227	0	Horizontal



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4.9.2.1.14 802.11N20_Lowest Channel_Vertical



Suspected List

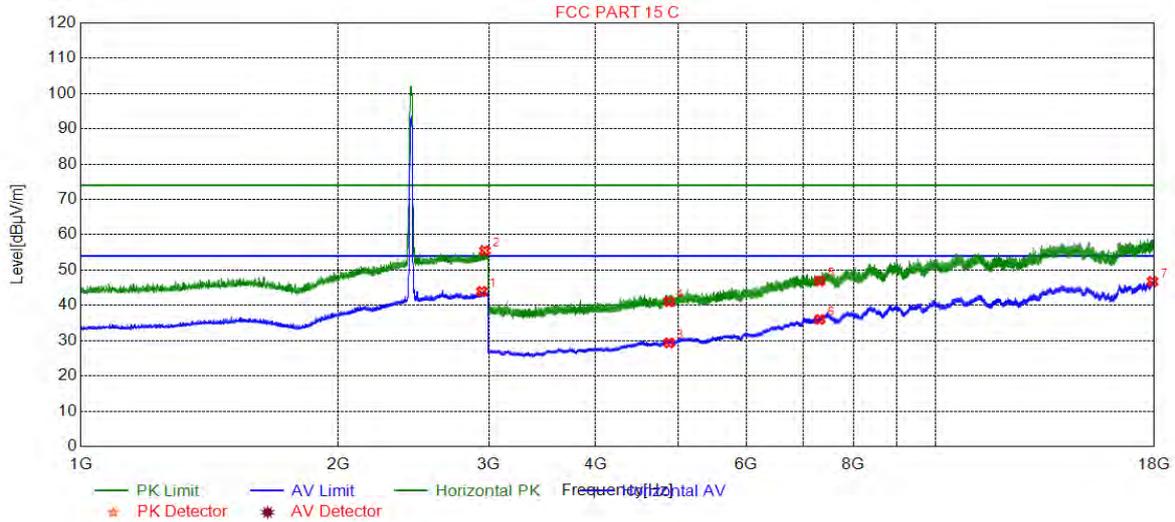
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.49	43.81	9.62	54.00	10.19	273	12	Vertical
2	2997.99	55.48	9.46	74.00	18.52	190	81	Vertical
3	4824.00	29.53	-18.21	54.00	24.47	222	18	Vertical
4	4824.00	40.64	-18.21	74.00	33.36	178	321	Vertical
5	7236.00	46.02	-9.99	74.00	27.98	226	140	Vertical
6	7236.00	35.27	-9.99	54.00	18.73	238	241	Vertical
7	17705.1	46.64	1.26	54.00	7.36	260	0	Vertical



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4.9.2.1.15 802.11N20_ Middle Channel_ Horizontal



Suspected List

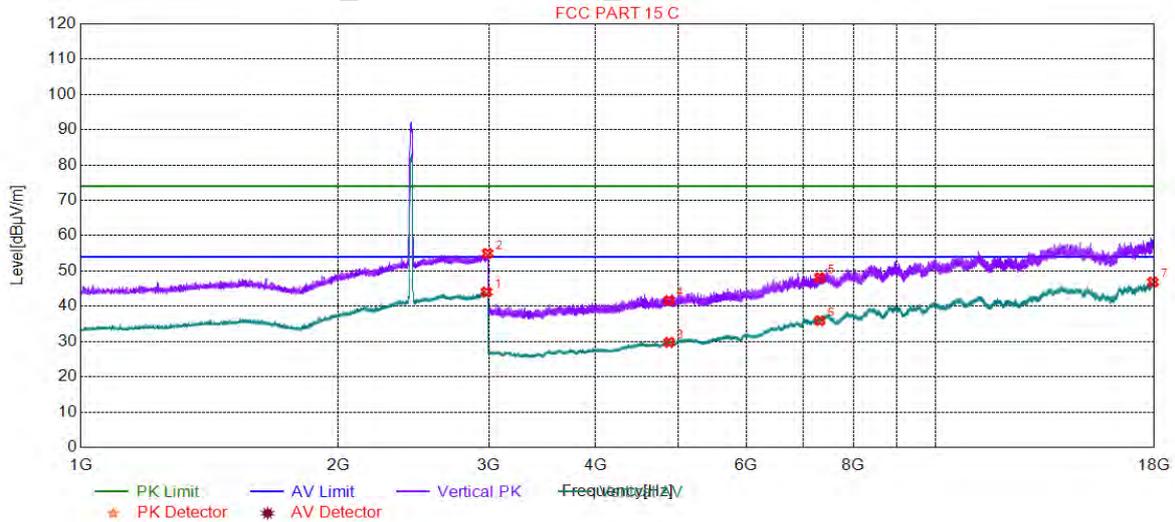
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.48	43.94	9.61	54.00	10.06	235	156	Horizontal
2	2967.99	55.49	9.60	74.00	18.51	100	86	Horizontal
3	4874.00	29.37	-17.99	54.00	24.63	235	128	Horizontal
4	4874.00	41.04	-17.99	74.00	32.96	179	18	Horizontal
5	7311.00	46.90	-9.74	74.00	27.10	128	90	Horizontal
6	7311.00	36.00	-9.74	54.00	18.00	220	342	Horizontal
7	17910.3	46.73	0.69	54.00	7.27	151	140	Horizontal



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4.9.2.1.16 802.11N20_Middle Channel_Vertical



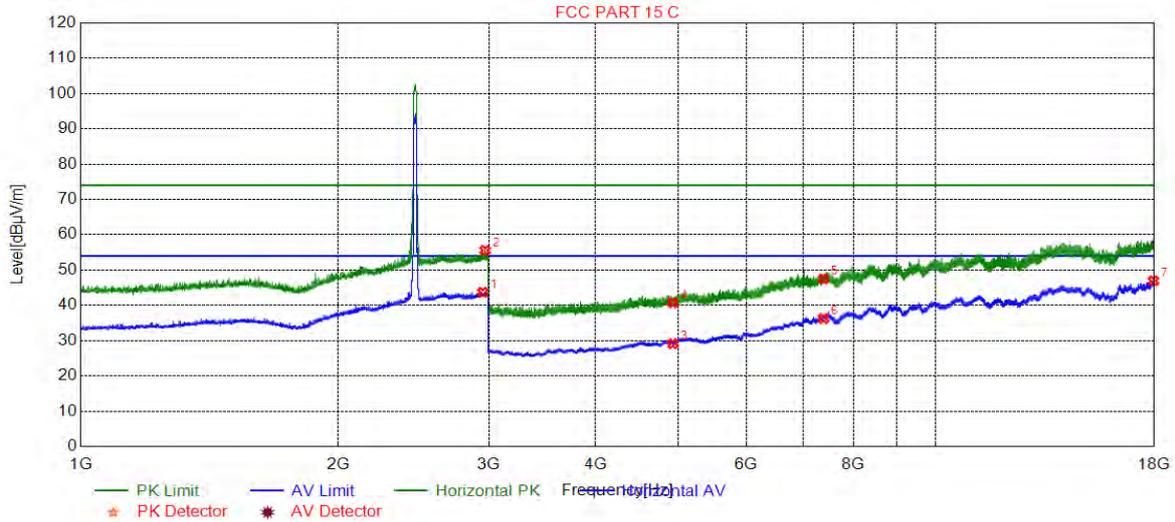
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.49	44.01	9.54	54.00	9.99	296	273	Vertical
2	2989.99	54.98	9.50	74.00	19.02	155	95	Vertical
3	4874.00	29.75	-17.99	54.00	24.25	236	248	Vertical
4	4874.00	41.62	-17.99	74.00	32.38	260	82	Vertical
5	7311.00	48.11	-9.74	74.00	25.89	180	241	Vertical
6	7311.00	35.87	-9.74	54.00	18.13	260	40	Vertical
7	17927.9	46.82	0.70	54.00	7.18	202	241	Vertical



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4.9.2.1.17 802.11N20_ Highest Channel_ Horizontal



Suspected List

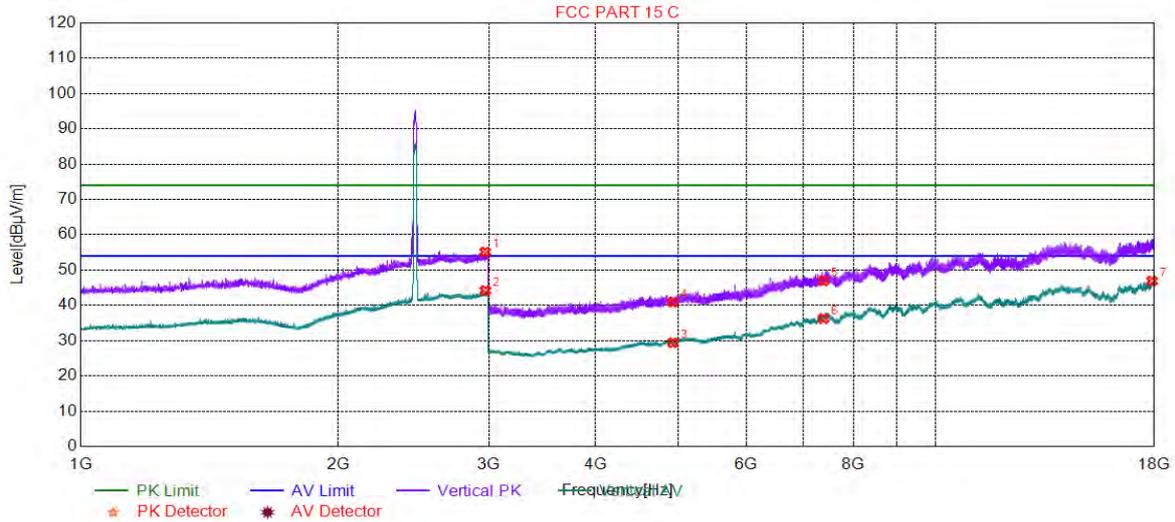
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.48	43.68	9.67	54.00	10.32	203	18	Horizontal
2	2969.99	55.55	9.59	74.00	18.45	240	128	Horizontal
3	4924.00	29.13	-17.72	54.00	24.87	208	154	Horizontal
4	4924.00	40.72	-17.72	74.00	33.28	197	126	Horizontal
5	7386.00	47.47	-9.55	74.00	26.53	182	191	Horizontal
6	7386.00	36.25	-9.55	54.00	17.75	149	140	Horizontal
7	17951.5	46.95	0.71	54.00	7.05	134	90	Horizontal



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4.9.2.1.18 802.11N20_ Highest Channel_ Vertical



Suspected List

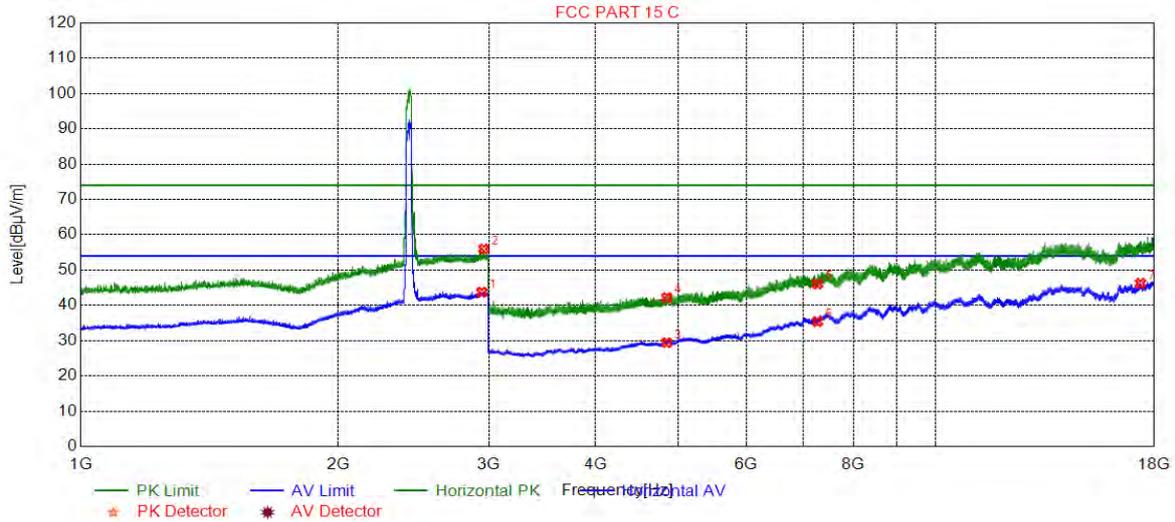
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2970.49	55.12	9.59	74.00	18.88	254	260	Vertical
2	2972.49	44.18	9.58	54.00	9.82	243	81	Vertical
3	4924.00	29.39	-17.72	54.00	24.61	190	292	Vertical
4	4924.00	40.92	-17.72	74.00	33.08	241	319	Vertical
5	7386.00	46.91	-9.55	74.00	27.09	161	141	Vertical
6	7386.00	36.24	-9.55	54.00	17.76	264	342	Vertical
7	17883.9	46.89	0.48	54.00	7.11	253	40	Vertical



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4.9.2.1.19 802.11N40_Lowest Channel_ Horizontal



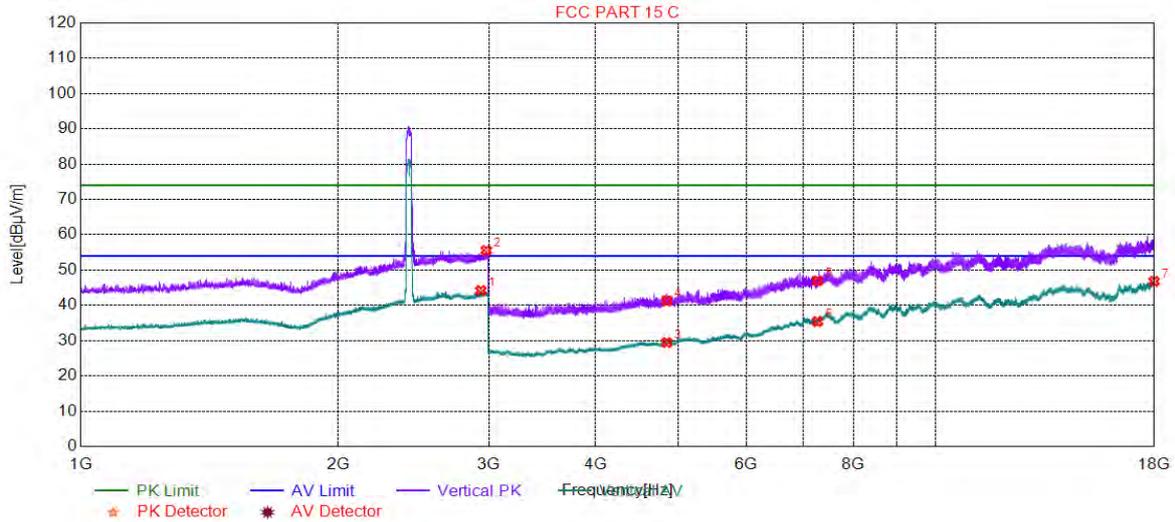
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.48	43.72	9.61	54.00	10.28	246	291	Horizontal
2	2959.48	55.97	9.64	74.00	18.03	188	140	Horizontal
3	4844.00	29.42	-18.13	54.00	24.58	248	127	Horizontal
4	4844.00	42.18	-18.13	74.00	31.82	108	319	Horizontal
5	7266.00	46.06	-9.88	74.00	27.94	163	42	Horizontal
6	7266.00	35.37	-9.88	54.00	18.63	247	342	Horizontal
7	17337.2	46.22	-0.03	54.00	7.78	226	42	Horizontal



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4.9.2.1.20 802.11N40_Lowest Channel_Vertical



Suspected List

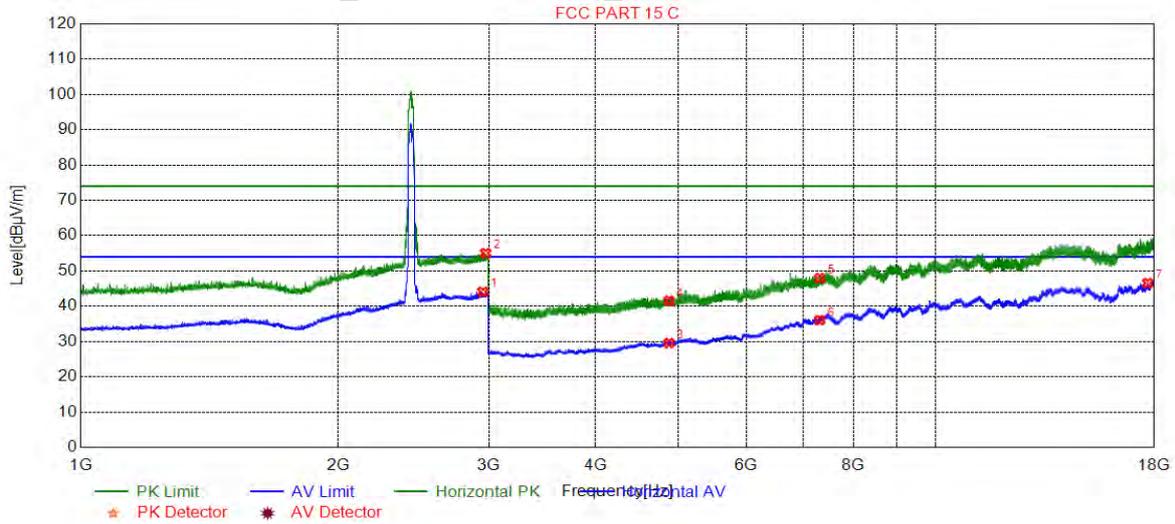
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.48	44.18	9.53	54.00	9.82	287	138	Vertical
2	2980.49	55.55	9.54	74.00	18.45	261	288	Vertical
3	4844.00	29.44	-18.13	54.00	24.56	153	127	Vertical
4	4844.00	41.24	-18.13	74.00	32.76	192	45	Vertical
5	7266.00	46.95	-9.88	74.00	27.05	265	191	Vertical
6	7266.00	35.39	-9.88	54.00	18.61	293	241	Vertical
7	17984.5	46.79	0.72	54.00	7.21	206	292	Vertical



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4.9.2.1.21 802.11N40_Middle Channel_Horizontal



Suspected List

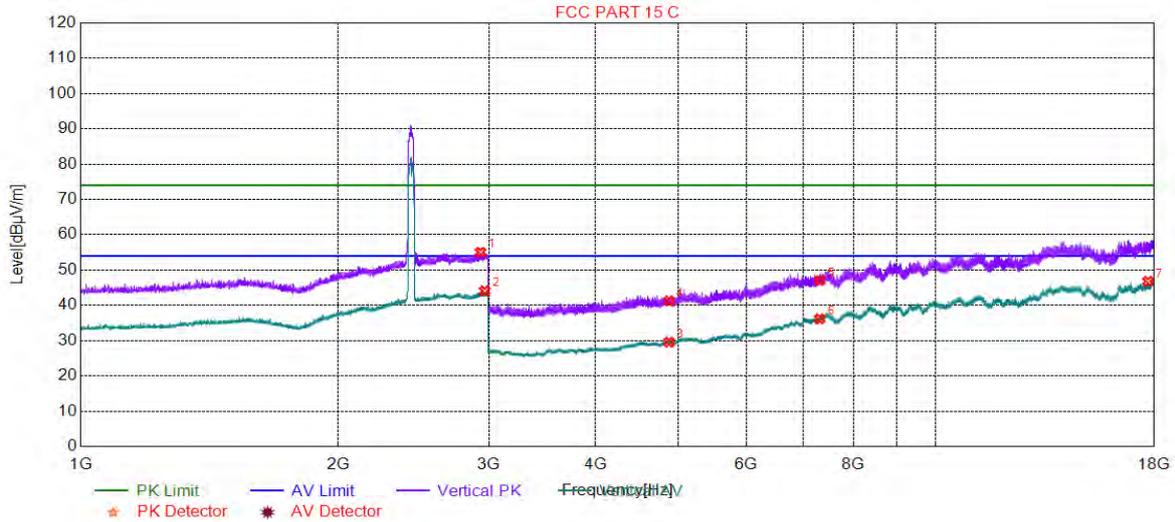
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.98	44.07	9.67	54.00	9.93	235	294	Horizontal
2	2974.49	55.06	9.57	74.00	18.94	111	18	Horizontal
3	4874.00	29.55	-17.99	54.00	24.45	212	237	Horizontal
4	4874.00	41.54	-17.99	74.00	32.46	173	237	Horizontal
5	7311.00	47.97	-9.74	74.00	26.03	118	342	Horizontal
6	7311.00	36.04	-9.74	54.00	17.96	229	242	Horizontal
7	17682.0	46.57	1.35	54.00	7.43	126	40	Horizontal



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4.9.2.1.22 802.11N40_ Middle Channel_ Vertical



Suspected List

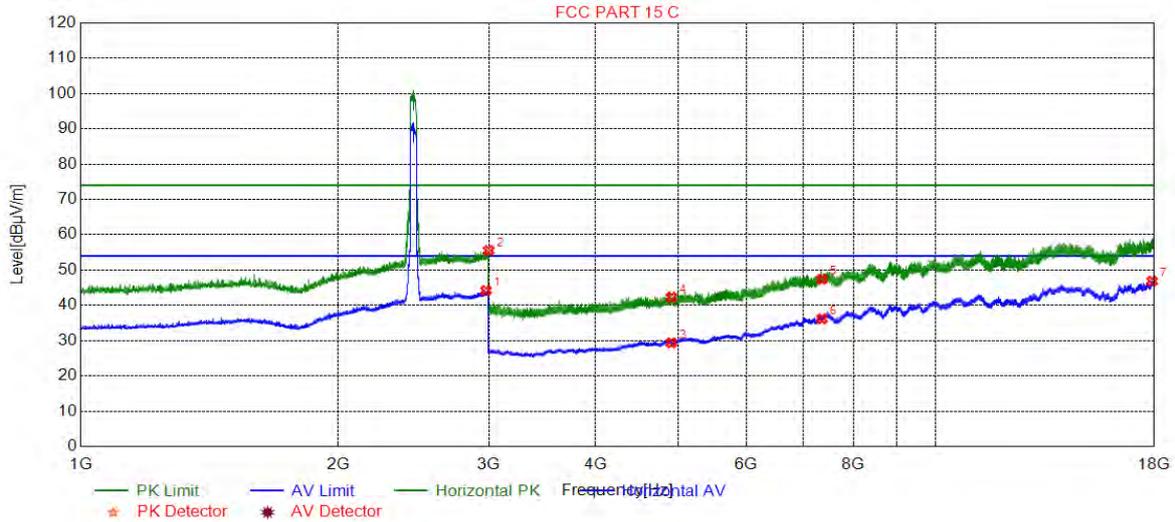
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2933.48	55.05	9.50	74.00	18.95	244	25	Vertical
2	2966.49	44.08	9.60	54.00	9.92	196	11	Vertical
3	4874.00	29.55	-17.99	54.00	24.45	193	237	Vertical
4	4874.00	41.27	-17.99	74.00	32.73	288	182	Vertical
5	7311.00	47.02	-9.74	74.00	26.98	198	0	Vertical
6	7311.00	36.16	-9.74	54.00	17.84	213	190	Vertical
7	17697.4	46.79	1.36	54.00	7.21	259	190	Vertical



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4.9.2.1.23 802.11N40_ Highest Channel_ Horizontal



Suspected List

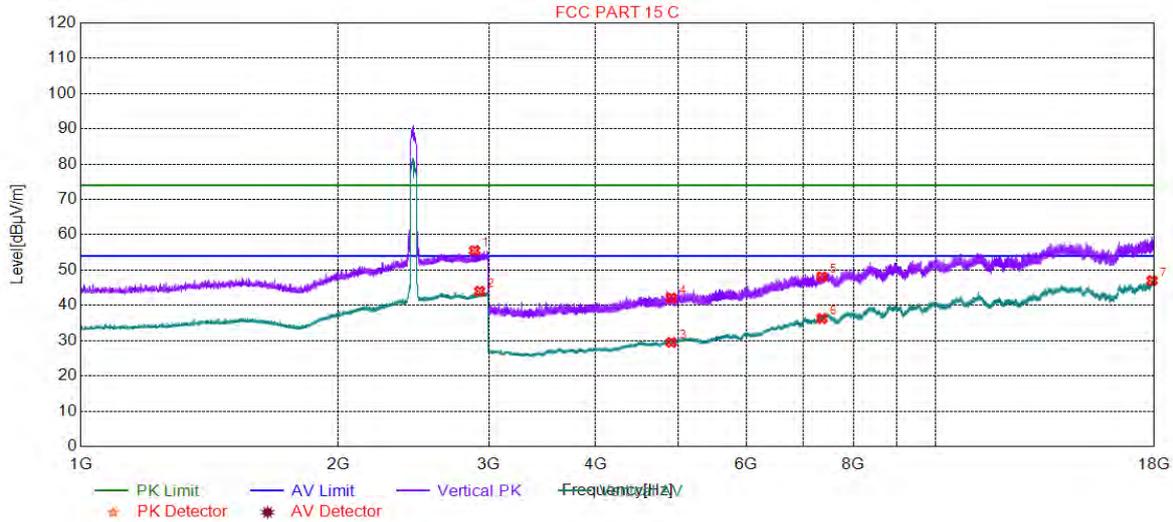
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2977.49	44.19	9.55	54.00	9.81	172	32	Horizontal
2	2998.99	55.53	9.45	74.00	18.47	205	291	Horizontal
3	4904.00	29.35	-17.85	54.00	24.65	232	264	Horizontal
4	4904.00	42.25	-17.85	74.00	31.75	156	155	Horizontal
5	7356.00	47.39	-9.62	74.00	26.61	224	0	Horizontal
6	7356.00	36.17	-9.62	54.00	17.83	143	40	Horizontal
7	17887.2	46.86	0.52	54.00	7.14	180	0	Horizontal



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4.9.2.1.24 802.11N40_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2886.97	55.54	9.17	74.00	18.46	292	2	Vertical
2	2927.48	44.00	9.44	54.00	10.00	232	163	Vertical
3	4904.00	29.48	-17.85	54.00	24.52	264	73	Vertical
4	4904.00	42.10	-17.85	74.00	31.90	173	318	Vertical
5	7356.00	48.11	-9.62	74.00	25.89	170	140	Vertical
6	7356.00	36.25	-9.62	54.00	17.75	217	91	Vertical
7	17886.1	47.01	0.51	54.00	6.99	258	292	Vertical

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 @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz		54.0	Average Value
		74.0	Peak Value
Test Setup:			

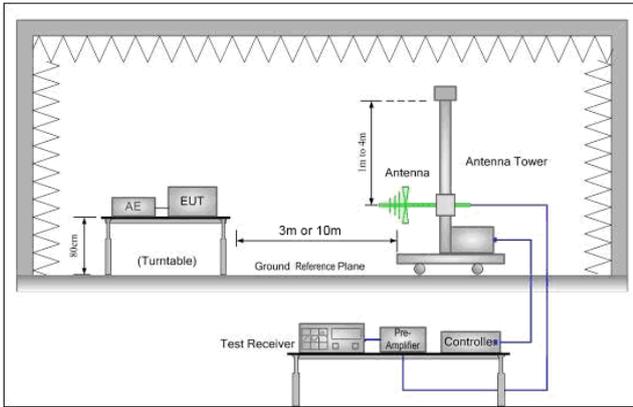


Figure 1. 30MHz to 1GHz

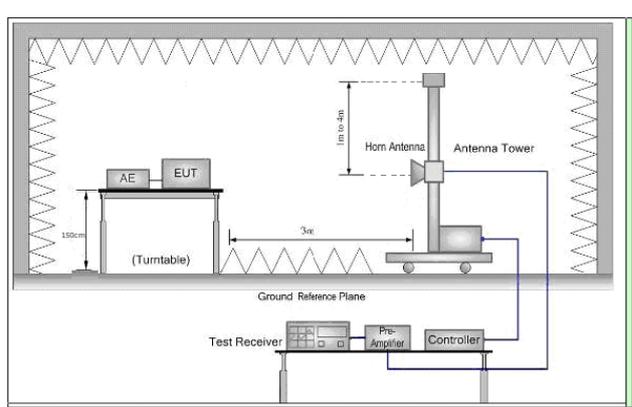


Figure 2. Above 1 GHz



<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40). Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

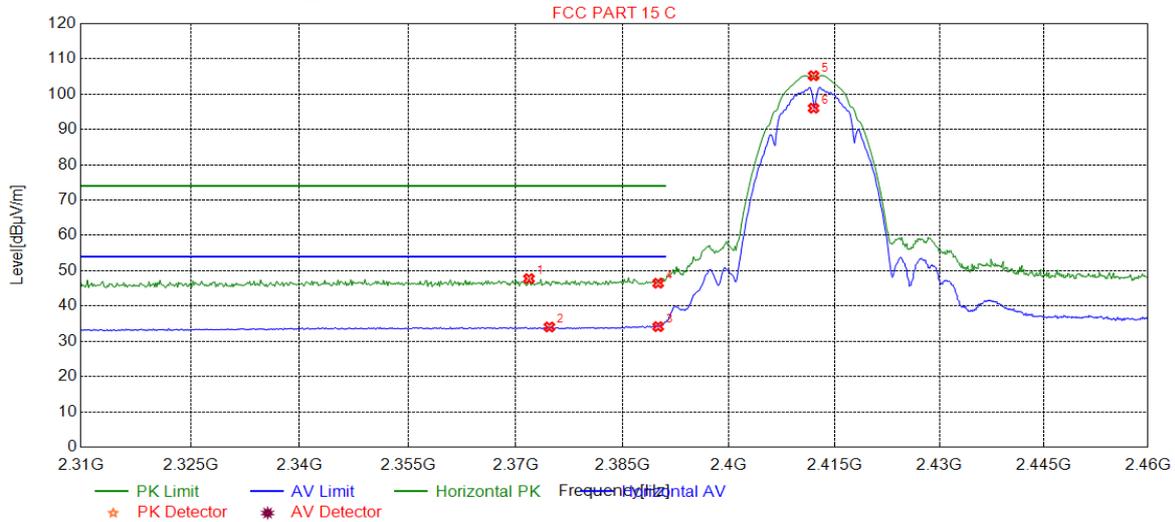




Test plot as follows:

4.10.1 ANT1

4.10.1.1 802.11B_Lowest Channel_Horizontal



Suspected List

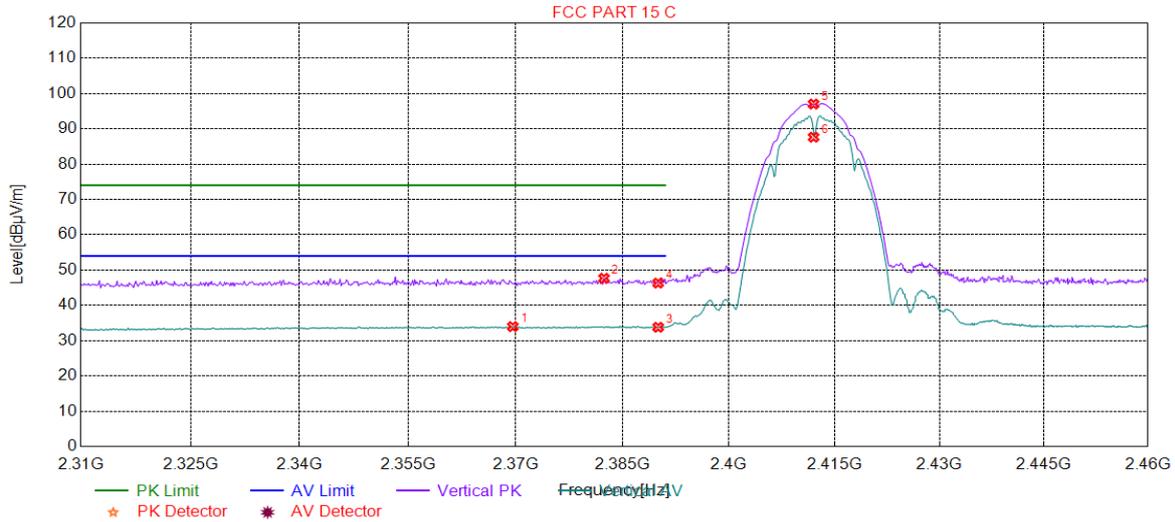
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.86	47.75	7.79	74.00	26.25	203	164	Horizontal
2	2374.71	34.05	7.79	54.00	19.95	150	216	Horizontal
3	2390.00	34.14	7.77	54.00	19.86	232	212	Horizontal
4	2390.00	46.45	7.77	74.00	27.55	166	208	Horizontal
5	2412.00	105.24	7.81	0.00	-105.24	248	216	Horizontal
6	2412.00	96.05	7.81	0.00	-96.05	194	216	Horizontal



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4.10.1.2 802.11B_Lowest Channel_Vertical



Suspected List

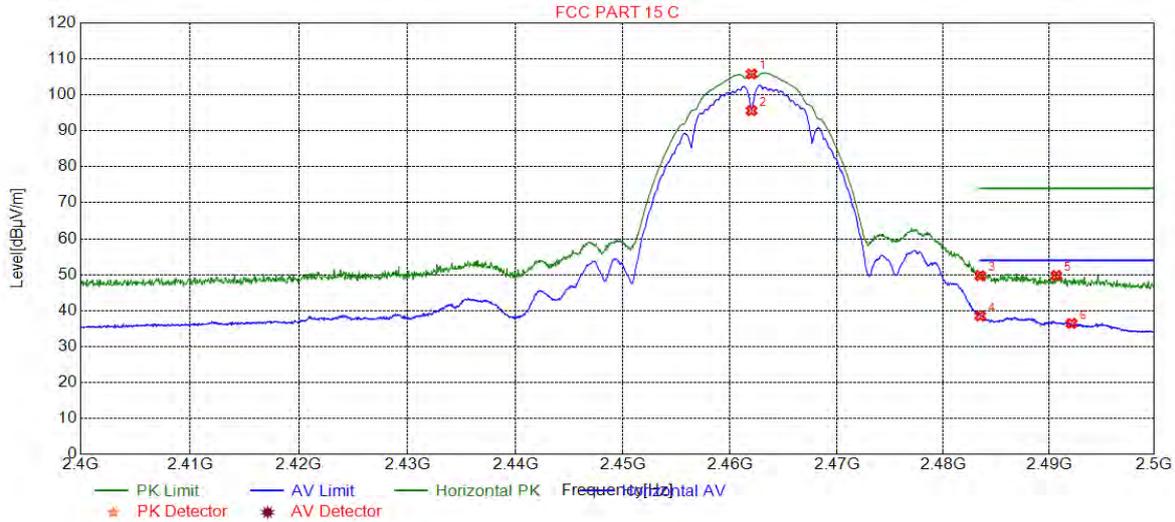
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.60	33.96	7.79	54.00	20.04	225	128	Vertical
2	2382.37	47.67	7.78	74.00	26.33	213	169	Vertical
3	2390.00	33.78	7.77	54.00	20.22	178	282	Vertical
4	2390.00	46.30	7.77	74.00	27.70	183	271	Vertical
5	2412.00	97.04	7.81	0.00	-97.04	162	60	Vertical
6	2412.00	87.65	7.81	0.00	-87.65	188	60	Vertical



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4.10.1.3 802.11B_ Highest Channel_ Horizontal



Suspected List

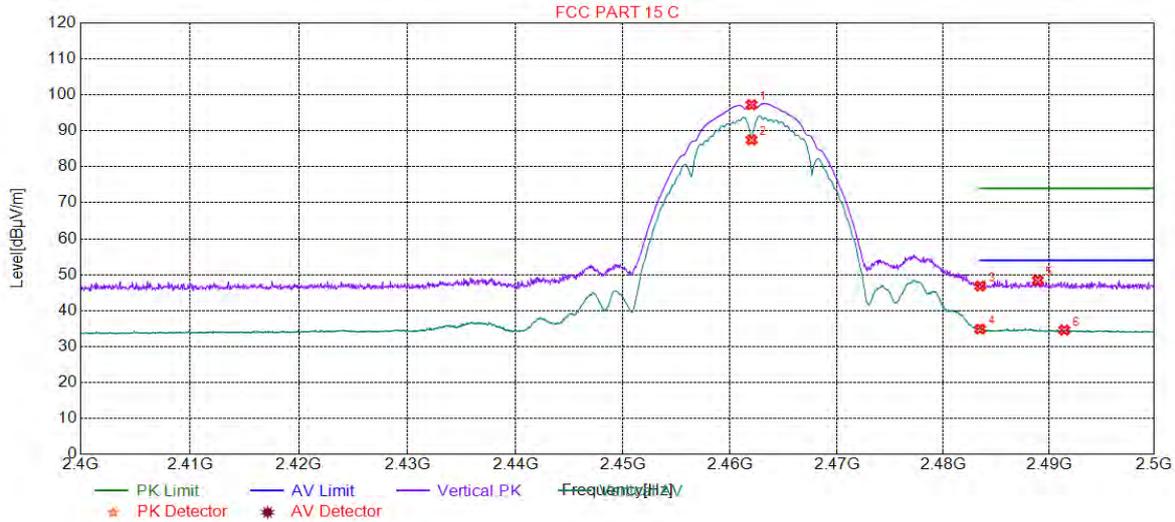
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	105.82	7.98	0.00	-105.82	214	217	Horizontal
2	2462.00	95.62	7.98	0.00	-95.62	112	217	Horizontal
3	2483.50	49.70	8.01	74.00	24.30	194	223	Horizontal
4	2483.50	38.49	8.01	54.00	15.51	191	217	Horizontal
5	2490.69	49.77	8.02	74.00	24.23	154	211	Horizontal
6	2492.14	36.42	8.02	54.00	17.58	221	217	Horizontal



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4.10.1.4 802.11B_ Highest Channel_ Vertical



Suspected List

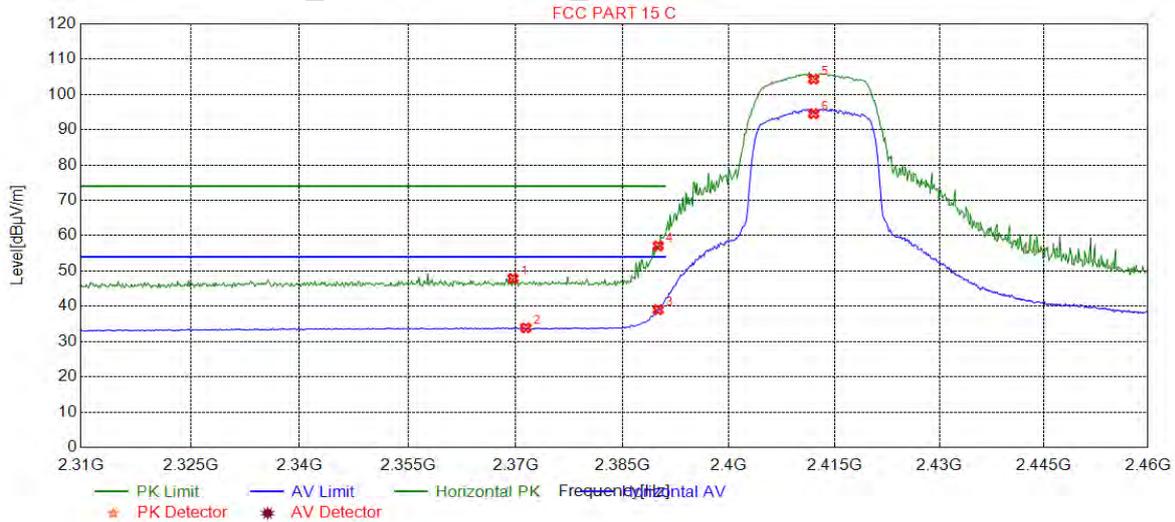
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	97.26	7.98	0.00	-97.26	251	222	Vertical
2	2462.00	87.48	7.98	0.00	-87.48	256	222	Vertical
3	2483.50	46.82	8.01	74.00	27.18	286	216	Vertical
4	2483.50	34.86	8.01	54.00	19.14	279	222	Vertical
5	2488.94	48.42	8.02	74.00	25.58	193	271	Vertical
6	2491.44	34.58	8.02	54.00	19.42	231	151	Vertical



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4.10.1.5 802.11G_Lowest Channel_Horizontal



Suspected List

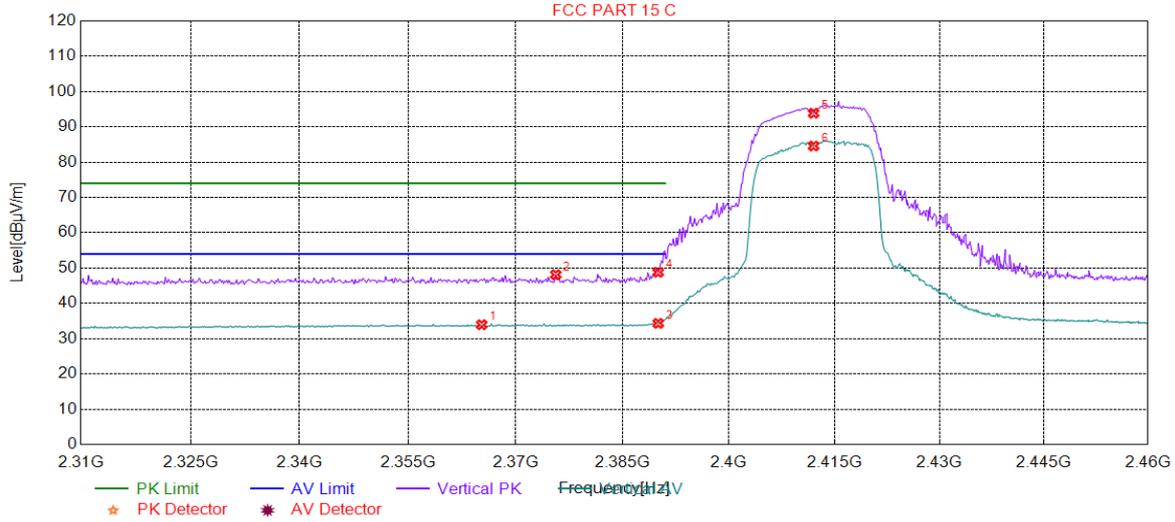
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.60	47.87	7.79	74.00	26.13	124	45	Horizontal
2	2371.41	33.87	7.79	54.00	20.13	157	343	Horizontal
3	2390.00	39.01	7.77	54.00	14.99	123	214	Horizontal
4	2390.00	57.09	7.77	74.00	16.91	109	50	Horizontal
5	2412.00	104.34	7.81	0.00	-104.34	189	214	Horizontal
6	2412.00	94.57	7.81	0.00	-94.57	127	214	Horizontal



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4.10.1.6 802.11G_Lowest Channel_Vertical



Suspected List

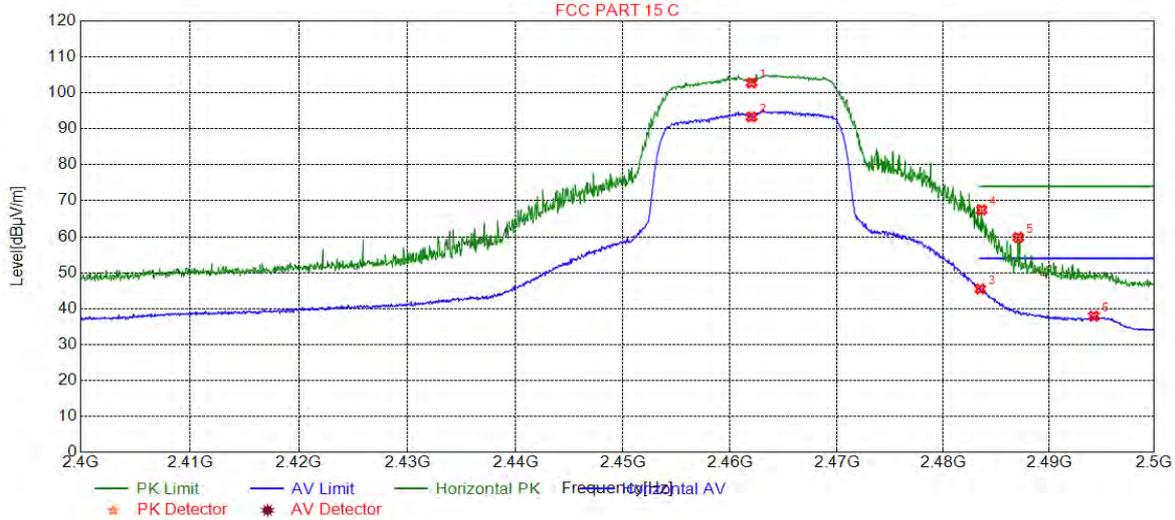
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.25	33.94	7.79	54.00	20.06	204	5	Vertical
2	2375.61	48.12	7.78	74.00	25.88	177	101	Vertical
3	2390.00	34.32	7.77	54.00	19.68	220	59	Vertical
4	2390.00	48.79	7.77	74.00	25.21	183	312	Vertical
5	2412.00	93.87	7.81	0.00	-93.87	191	282	Vertical
6	2412.00	84.58	7.81	0.00	-84.58	237	316	Vertical



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4.10.1.7 802.11G_ Highest Channel_ Horizontal



Suspected List

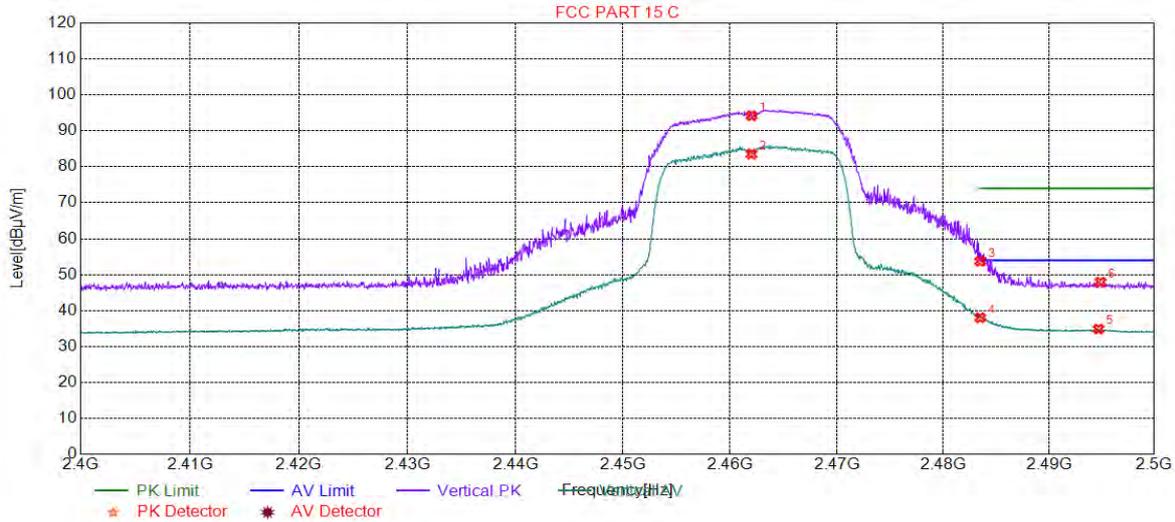
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	102.77	7.98	0.00	-102.77	117	206	Horizontal
2	2462.00	93.31	7.98	0.00	-93.31	210	206	Horizontal
3	2483.50	45.44	8.01	54.00	8.56	188	206	Horizontal
4	2483.64	67.47	8.01	74.00	6.53	170	195	Horizontal
5	2487.09	59.81	8.01	74.00	14.19	242	206	Horizontal
6	2494.24	37.90	8.02	54.00	16.10	148	206	Horizontal



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4.10.1.8 802.11G_ Highest Channel_ Vertical



Suspected List

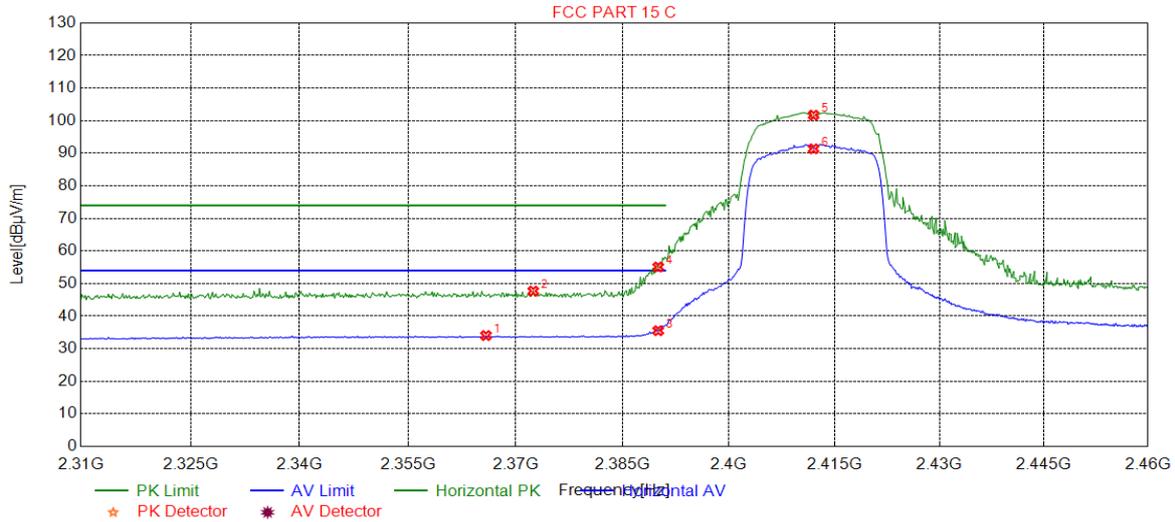
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.23	7.98	0.00	-94.23	168	234	Vertical
2	2462.00	83.54	7.98	0.00	-83.54	256	42	Vertical
3	2483.50	53.70	8.01	74.00	20.30	291	0	Vertical
4	2483.50	38.00	8.01	54.00	16.00	159	42	Vertical
5	2494.69	34.86	8.02	54.00	19.14	217	245	Vertical
6	2494.89	47.91	8.02	74.00	26.09	252	196	Vertical



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4.10.1.9 802.11N20_ Lowest Channel_ Horizontal



Suspected List

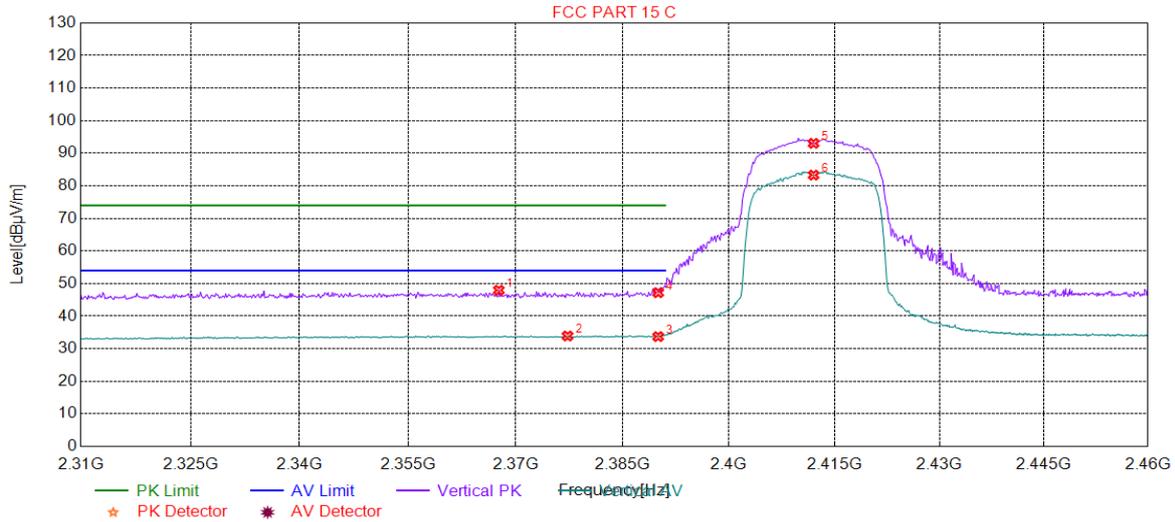
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.85	34.06	7.79	54.00	19.94	224	94	Horizontal
2	2372.46	47.70	7.79	74.00	26.30	125	333	Horizontal
3	2390.00	35.54	7.77	54.00	18.46	170	218	Horizontal
4	2390.00	55.10	7.77	74.00	18.90	206	247	Horizontal
5	2412.00	101.72	7.81	0.00	-101.72	116	214	Horizontal
6	2412.00	91.38	7.81	0.00	-91.38	104	210	Horizontal



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4.10.1.10 802.11N20_Lowest Channel_Vertical



Suspected List

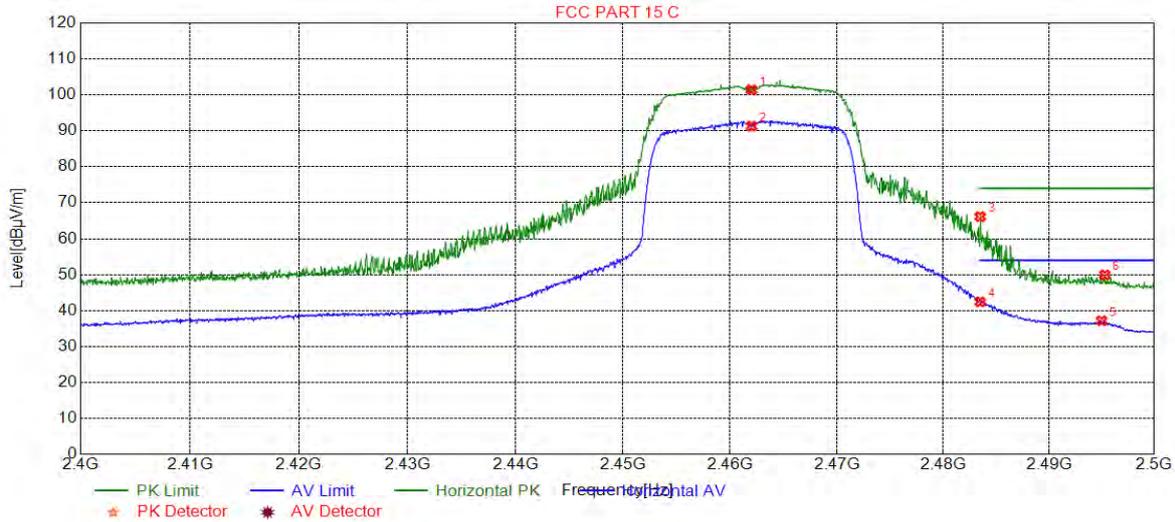
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.65	47.96	7.79	74.00	26.04	152	323	Vertical
2	2377.26	33.92	7.78	54.00	20.08	188	238	Vertical
3	2390.00	33.74	7.77	54.00	20.26	227	179	Vertical
4	2390.00	47.20	7.77	74.00	26.80	182	346	Vertical
5	2412.00	93.07	7.81	0.00	-93.07	161	311	Vertical
6	2412.00	83.31	7.81	0.00	-83.31	160	311	Vertical



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4.10.1.11 802.11N20_ Highest Channel_ Horizontal



Suspected List

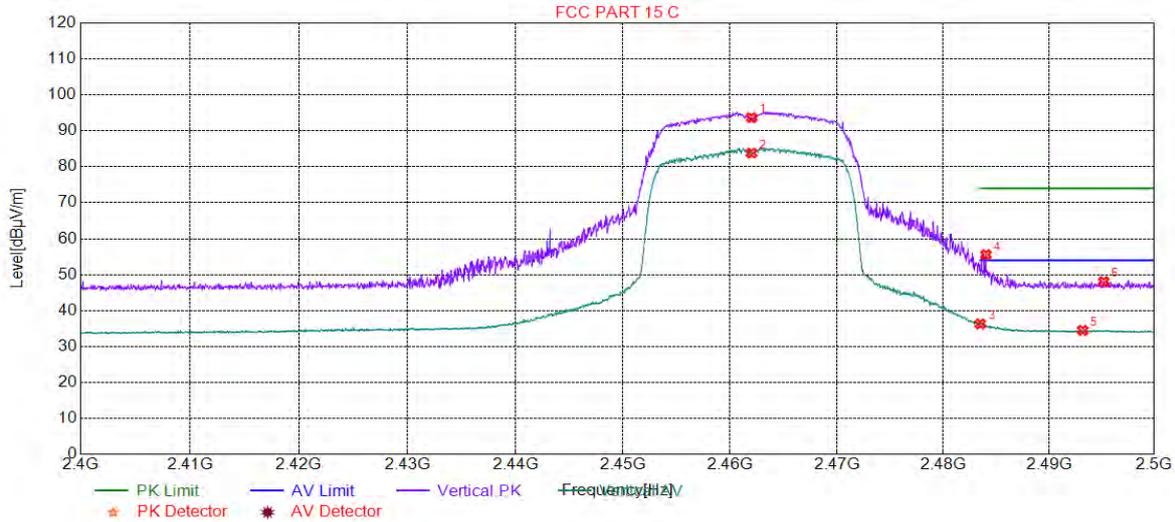
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	101.41	7.98	0.00	-101.41	242	222	Horizontal
2	2462.00	91.28	7.98	0.00	-91.28	117	217	Horizontal
3	2483.50	66.15	8.01	74.00	7.85	199	222	Horizontal
4	2483.50	42.41	8.01	54.00	11.59	101	217	Horizontal
5	2494.99	37.17	8.02	54.00	16.83	170	217	Horizontal
6	2495.29	49.95	8.02	74.00	24.05	124	217	Horizontal



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4.10.1.12 802.11N20_ Highest Channel_ Vertical



Suspected List

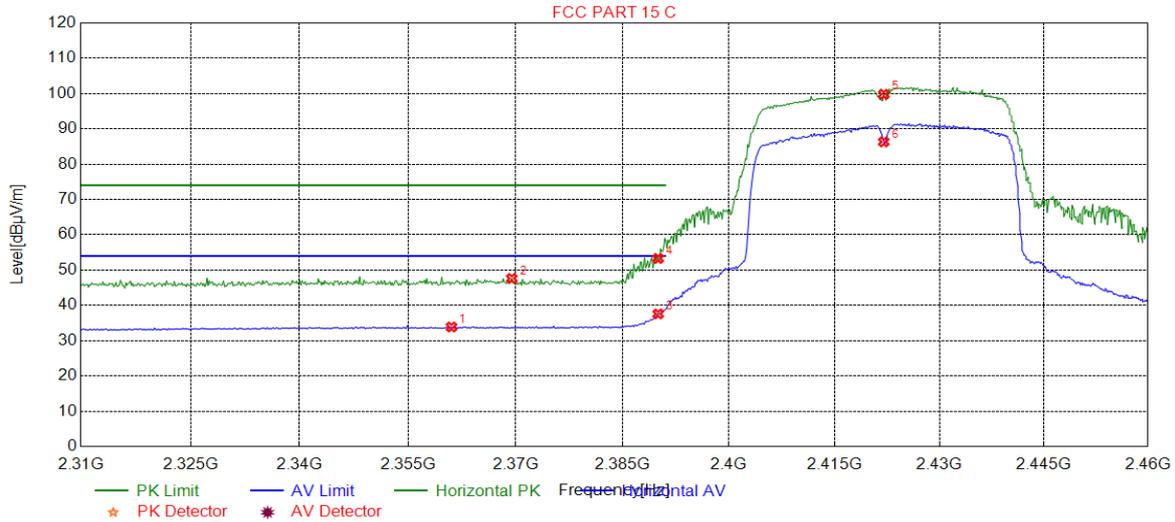
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.68	7.98	0.00	-93.68	273	319	Vertical
2	2462.00	83.82	7.98	0.00	-83.82	190	319	Vertical
3	2483.50	36.28	8.01	54.00	17.72	210	319	Vertical
4	2484.04	55.56	8.01	74.00	18.44	292	228	Vertical
5	2493.19	34.49	8.02	54.00	19.51	195	319	Vertical
6	2495.19	48.06	8.02	74.00	25.94	184	330	Vertical



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4.10.1.13 802.11N40_Lowest Channel_Horizontal



Suspected List

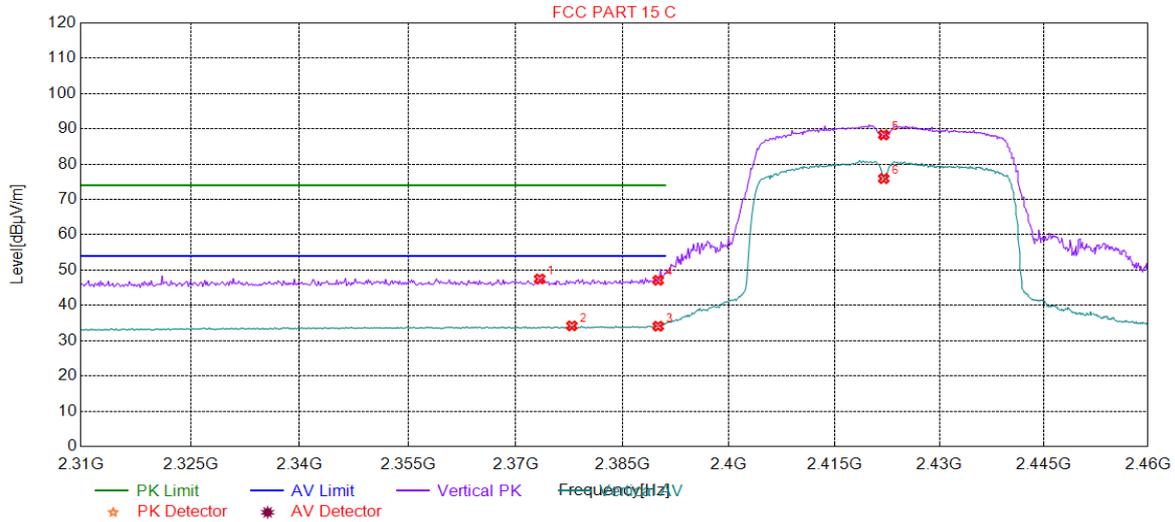
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.05	33.86	7.80	54.00	20.14	243	200	Horizontal
2	2369.45	47.61	7.79	74.00	26.39	114	345	Horizontal
3	2390.00	37.56	7.77	54.00	16.44	180	213	Horizontal
4	2390.00	53.28	7.77	74.00	20.72	202	213	Horizontal
5	2422.00	99.80	7.85	0.00	-99.80	140	213	Horizontal
6	2422.00	86.33	7.85	0.00	-86.33	249	213	Horizontal



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4.10.1.14 802.11N40_Lowest Channel_Vertical



Suspected List

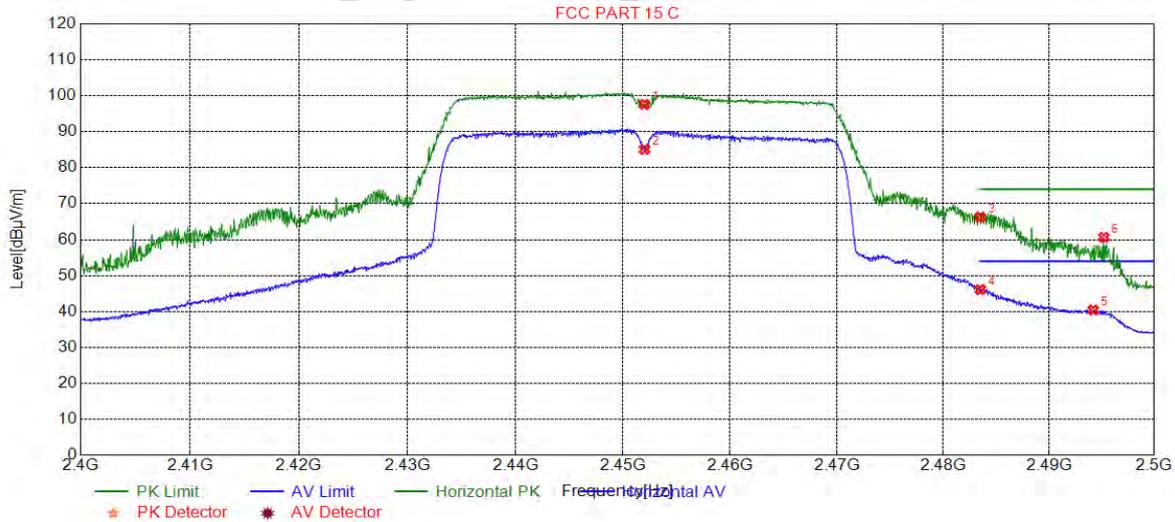
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.36	47.47	7.79	74.00	26.53	206	139	Vertical
2	2377.86	34.17	7.78	54.00	19.83	213	28	Vertical
3	2390.00	34.08	7.77	54.00	19.92	159	327	Vertical
4	2390.00	47.10	7.77	74.00	26.90	169	110	Vertical
5	2422.00	88.30	7.85	0.00	-88.30	263	319	Vertical
6	2422.00	75.92	7.85	0.00	-75.92	227	36	Vertical



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4.10.1.15 802.11N40_ Highest Channel_ Horizontal



Suspected List

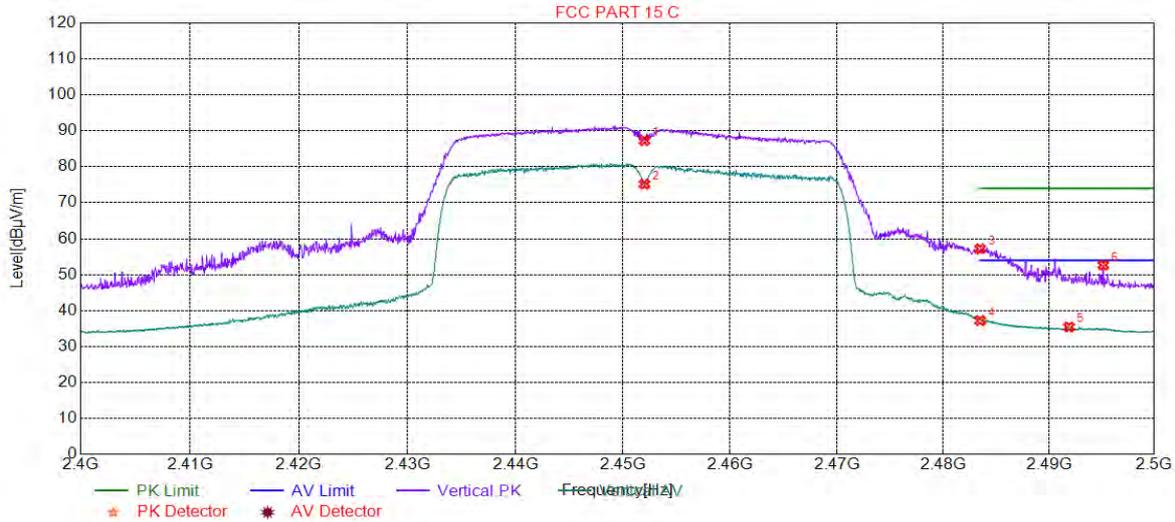
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	97.63	7.97	0.00	-97.63	150	211	Horizontal
2	2452.00	85.10	7.97	0.00	-85.10	105	211	Horizontal
3	2483.50	66.23	8.01	74.00	7.77	219	205	Horizontal
4	2483.50	46.06	8.01	54.00	7.94	125	205	Horizontal
5	2494.19	40.40	8.02	54.00	13.60	206	211	Horizontal
6	2495.19	60.62	8.02	74.00	13.38	116	211	Horizontal



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4.10.1.16 802.11N40_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	87.31	7.97	0.00	-87.31	275	112	Vertical
2	2452.00	75.17	7.97	0.00	-75.17	242	57	Vertical
3	2483.50	57.19	8.01	74.00	16.81	230	24	Vertical
4	2483.50	37.22	8.01	54.00	16.78	197	118	Vertical
5	2491.89	35.43	8.02	54.00	18.57	295	107	Vertical
6	2495.14	52.63	8.02	74.00	21.37	152	242	Vertical

Remark:

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

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

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



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	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	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
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	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

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	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
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	2019-09-07	2020-09-06
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	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
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 ZR/2020/50040.

The End



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