

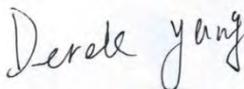
FCC TEST REPORT

Application No.: AR/2020/C0002
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.: M2101K9G
Trade Mark: XIAOMI
FCC ID: 2AFZZK9G
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/21
Date of Test: 2020/12/21 to 2021/1/18
Date of Issue: 2021/1/19

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

Authorized Signature:



Derek Yang
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/19		Original

Authorized for issue by:			
Tested By		 _____ (Dee Zheng) /Project Engineer	
Checked By		 _____ (David Chen) /Reviewer	



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2 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



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3 General Information

3.1 Details of Client

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

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



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3.3 Test Facility

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

- **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.



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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2101K9G
Trade Mark:	XIAOMI
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), <input checked="" type="checkbox"/> 802.11AX (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11AX (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)/AX(HE20) : OFDM/OFDMA IEEE for 802.11N(HT40)/AX(HE40) : OFDM/OFDMA
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	PIFA Antenna
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input type="checkbox"/> SISO (for 802.11B/G/N), <input checked="" type="checkbox"/> MIMO (for 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-1.8dBi(ANT1);-0.9 dBi(ANT2);

Operation Frequency of each channel (802.11B/G/N HT20/AX HE20)

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/AX HE40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				



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Remark:

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

Channel	Frequency for 802.11B/G/N (HT20) /AX (HE20)	Frequency for 802.11N (HT40) /AX (HE40)
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 -1.8dBi(ANT1);-0.9dBi(ANT2).</p>	

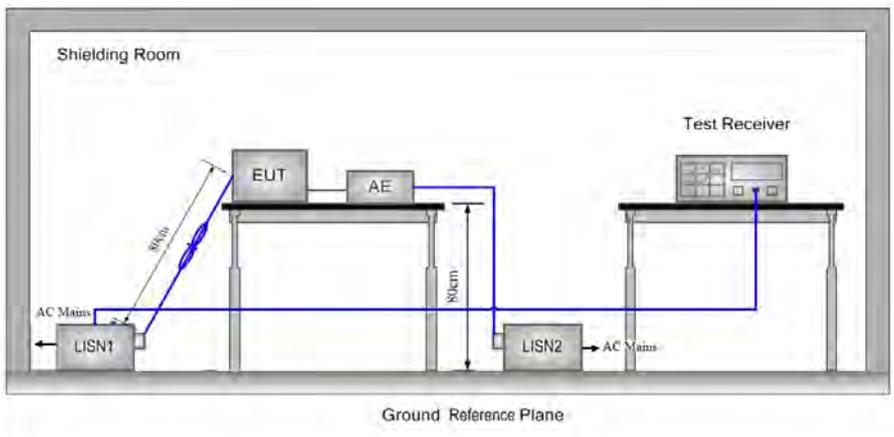


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4.2 AC Power Line Conducted Emissions

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:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>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.</p> <p>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,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p>		



<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>



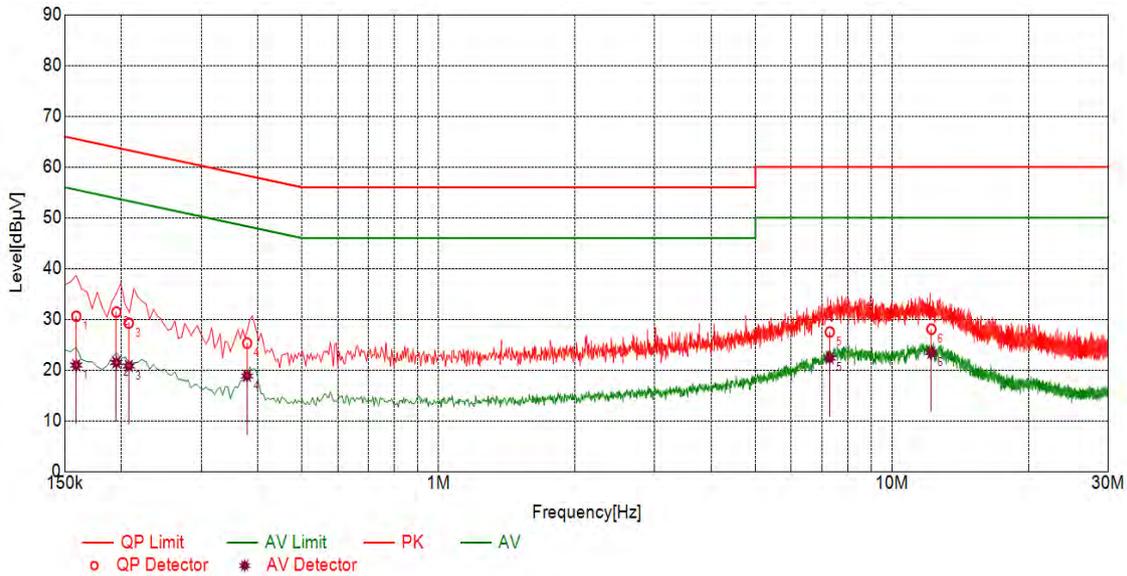
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Measurement Data

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

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

Live Line:



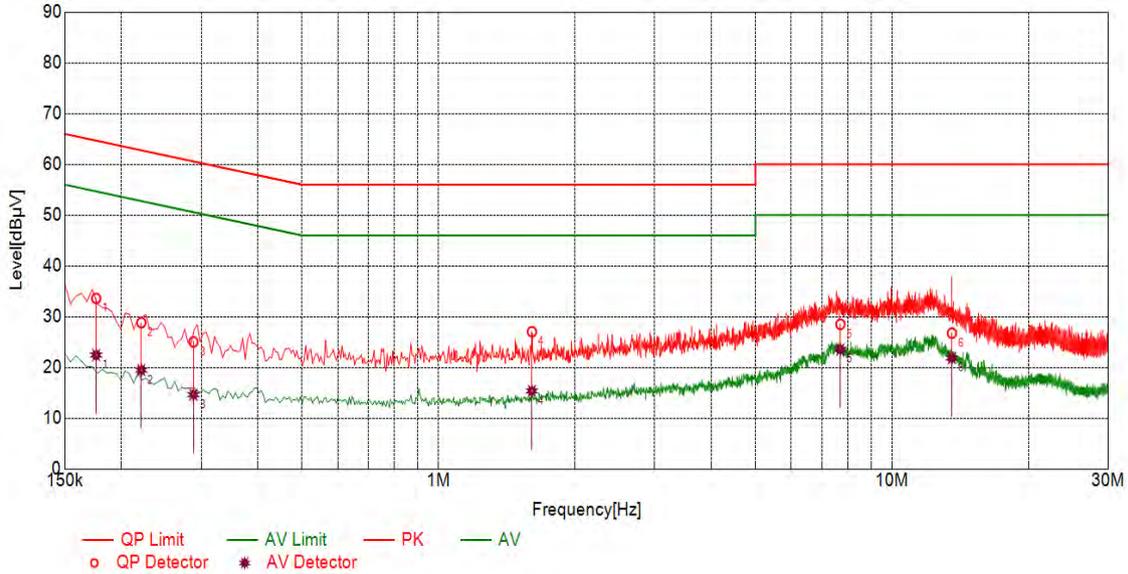
Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1591	10.10	30.59	65.51	34.92	20.97	55.51	34.54
2	0.1950	10.10	31.42	63.82	32.40	21.48	53.82	32.34
3	0.2077	10.10	29.26	63.30	34.04	20.82	53.30	32.48
4	0.3788	10.10	25.30	58.31	33.01	18.84	48.31	29.47
5	7.2925	10.10	27.50	60.00	32.50	22.38	50.00	27.62
6	12.2181	10.10	28.05	60.00	31.95	23.45	50.00	26.55



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Neutral Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1760	10.10	33.59	64.67	31.08	22.43	54.67	32.24
2	0.2213	10.10	28.82	62.77	33.95	19.47	52.77	33.30
3	0.2884	10.10	25.04	60.57	35.53	14.63	50.57	35.94
4	1.6074	10.10	27.03	56.00	28.97	15.36	46.00	30.64
5	7.6987	10.10	28.50	60.00	31.50	23.53	50.00	26.47
6	13.5569	10.11	26.75	60.00	33.25	21.85	50.00	28.15

Remarks:

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



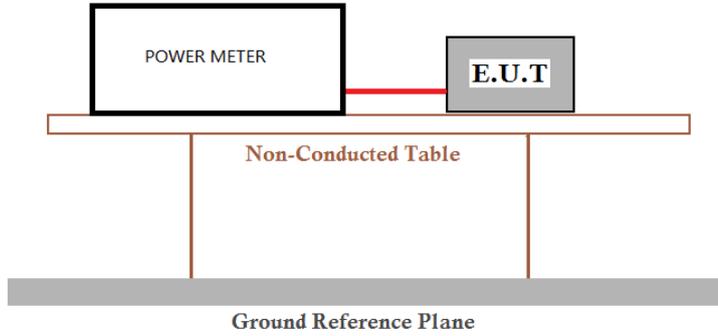
4.3 Duty Cycle

The detailed test data see: **Appendix C**



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4.4 Conducted Output Power

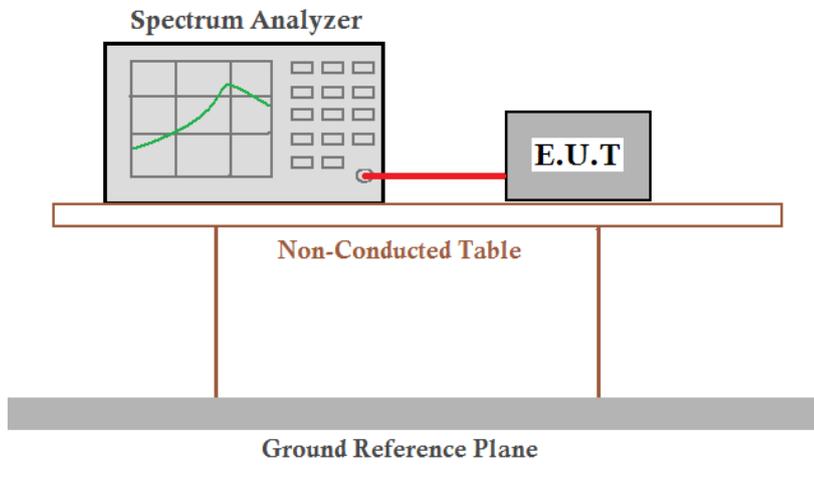
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40) /AX(HE40).
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix C**



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

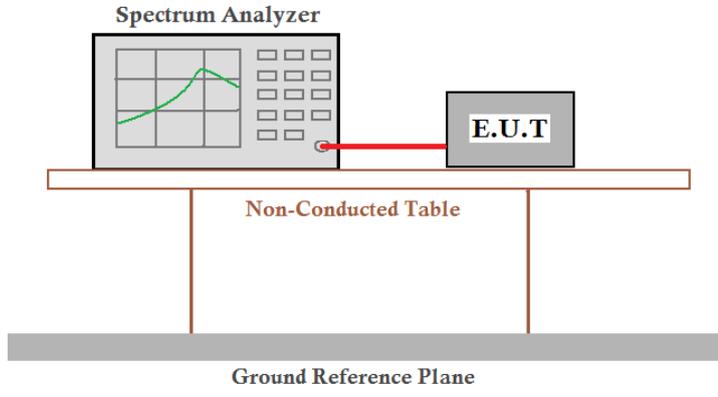
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps 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)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40) /AX(HE40).
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix C**



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4.6 Power Spectral Density

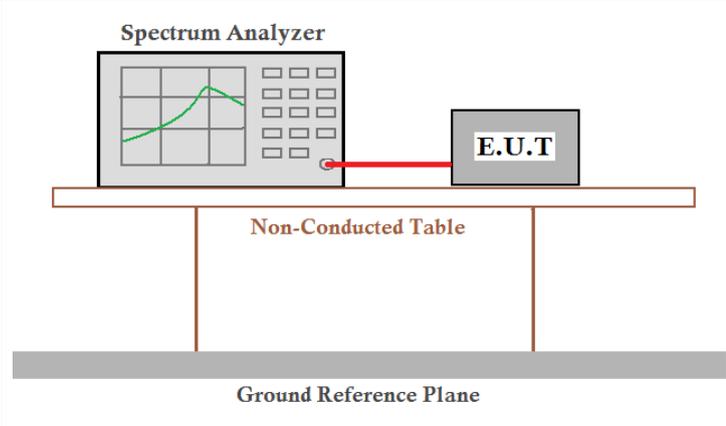
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40) /AX(HE40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix C**



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4.7 Band-edge for RF Conducted Emissions

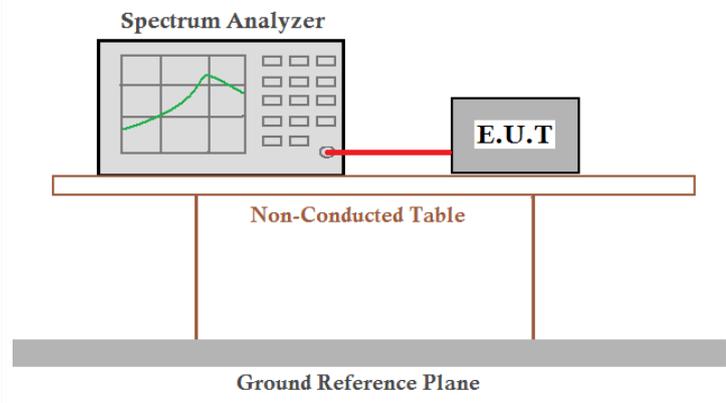
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40) /AX(HE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix C**



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40) /AX(HE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix C**



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4.9 Radiated Spurious Emissions

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



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<p>Test Setup:</p>		
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>	
<p>Figure 3. Above 1 GHz</p>		
<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. Use the following spectrum analyzer settings: <ol style="list-style-type: none"> Span shall wide enough to fully capture the emission being measured; Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak For average measurement: use duty cycle correction factor method per 15.35(c). 	



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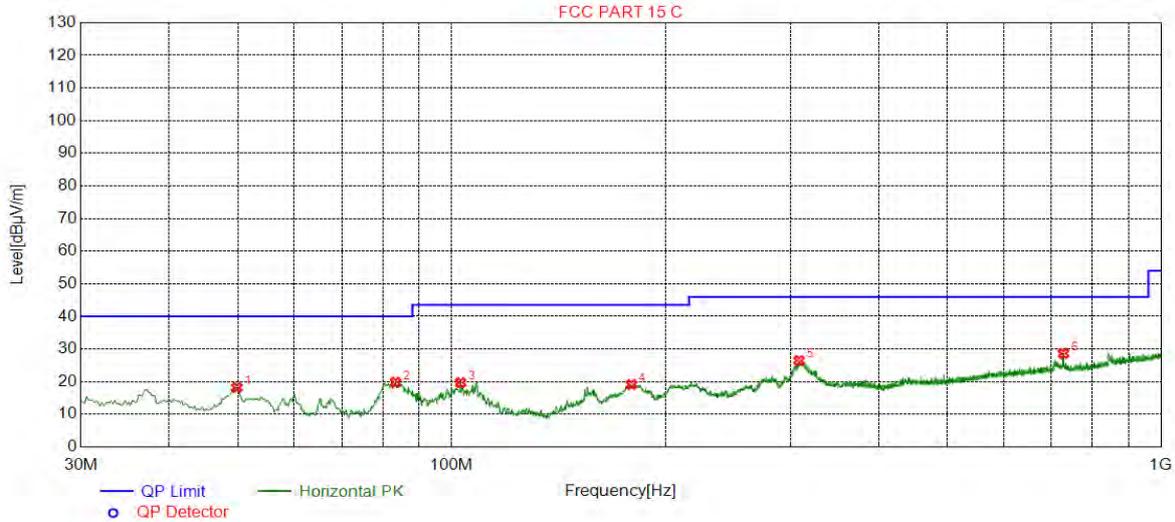
	<p>Duty cycle = On time/100 milliseconds On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. For each suspected emission, the EUT 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>
<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)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/AX(HE40); 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. For AX OFDM/OFDMA, through Pre-scan, find OFDM is the worst case. 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>



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4.9.1 Radiated emission below 1GHz

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.7920	18.21	40.00	21.79	200	284	Horizontal
2	83.3607	19.83	40.00	20.17	200	290	Horizontal
3	102.9586	19.71	43.50	23.79	200	80	Horizontal
4	179.2158	19.13	43.50	24.37	200	205	Horizontal
5	308.8338	26.50	46.00	19.50	100	329	Horizontal
6	728.7337	28.66	46.00	17.34	200	51	Horizontal

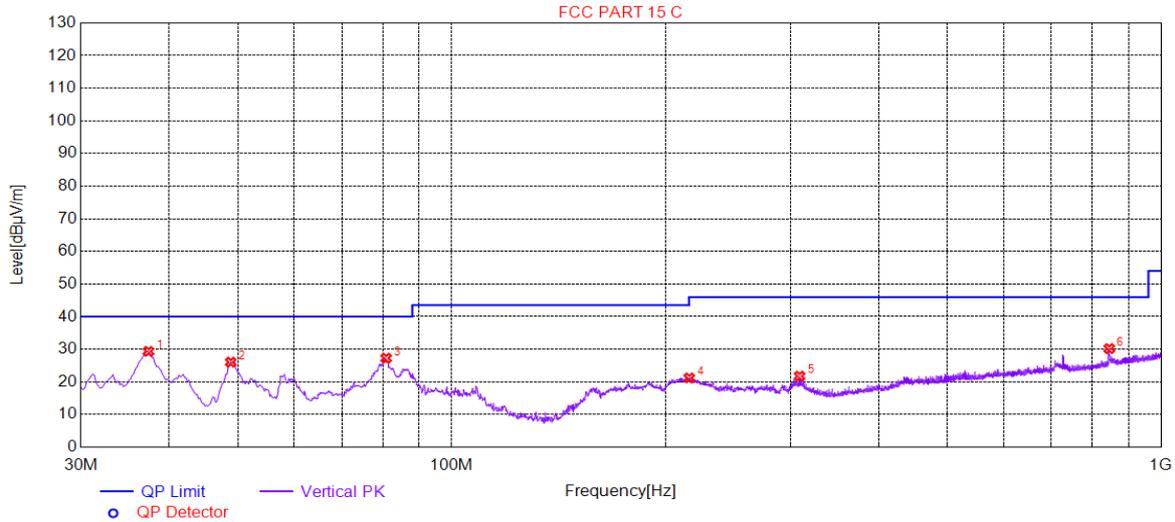
Final Data List



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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	29.38	40.00	10.62	100	346	Vertical
2	48.8218	26.07	40.00	13.93	100	346	Vertical
3	80.8382	27.29	40.00	12.71	100	253	Vertical
4	216.2773	21.22	46.00	24.78	100	306	Vertical
5	309.4159	21.79	46.00	24.21	200	342	Vertical
6	845.3511	30.22	46.00	15.78	200	63	Vertical

Final Data List



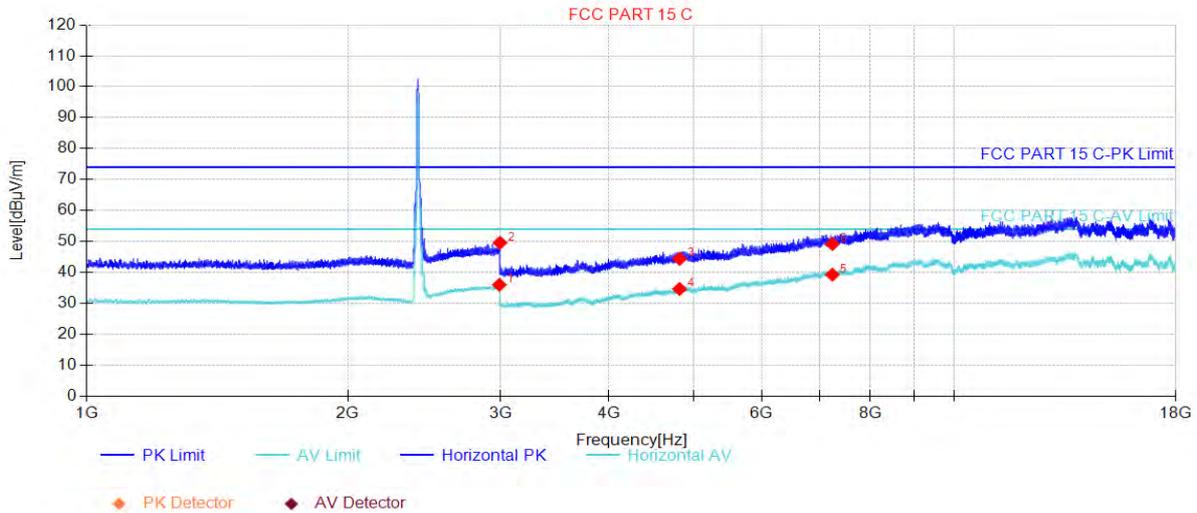
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4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.599	35.96	7.37	54.00	18.04	150	Horizontal
2	2994.999	49.55	7.39	74.00	24.45	150	Horizontal
3	4824.000	44.36	-10.56	74.00	29.64	150	Horizontal
4	4824.000	34.60	-10.56	54.00	19.40	150	Horizontal
5	7236.000	39.24	-2.59	54.00	14.76	150	Horizontal
6	7236.000	49.15	-2.59	74.00	24.85	150	Horizontal

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.599	35.96	7.37	54.00	18.04	150	Horizontal
2	2994.999	49.55	7.39	74.00	24.45	150	Horizontal
3	4824.000	44.36	-10.56	74.00	29.64	150	Horizontal
4	4824.000	34.60	-10.56	54.00	19.40	150	Horizontal
5	7236.000	39.24	-2.59	54.00	14.76	150	Horizontal
6	7236.000	49.15	-2.59	74.00	24.85	150	Horizontal

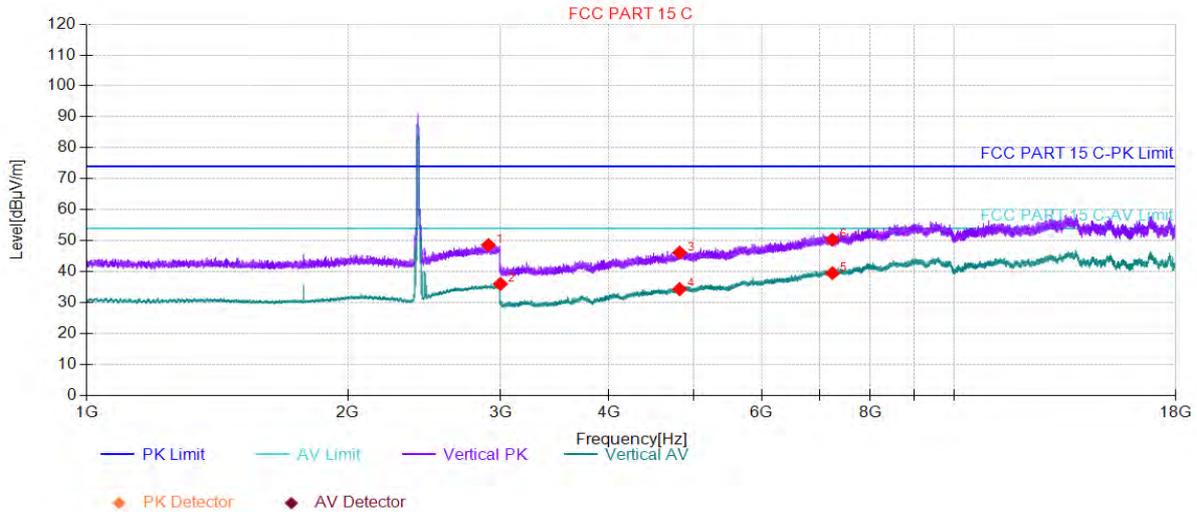


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4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2904.190	48.57	6.97	74.00	25.43	150	Vertical
2	2998.199	35.98	7.40	54.00	18.02	150	Vertical
3	4824.000	46.13	-10.56	74.00	27.87	150	Vertical
4	4824.000	34.31	-10.56	54.00	19.69	150	Vertical
5	7236.000	39.48	-2.59	54.00	14.52	150	Vertical
6	7236.000	50.30	-2.59	74.00	23.70	150	Vertical

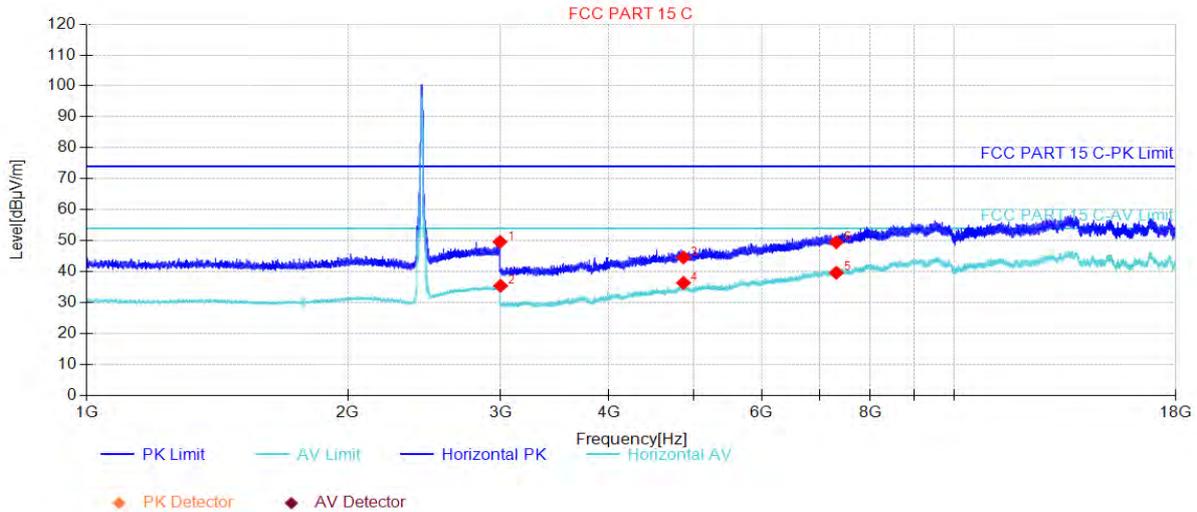
Final Data List



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4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.599	49.59	7.39	74.00	24.41	150	Horizontal
2	2999.399	35.39	7.41	54.00	18.61	150	Horizontal
3	4874.000	44.57	-10.40	74.00	29.43	150	Horizontal
4	4874.000	36.33	-10.40	54.00	17.67	150	Horizontal
5	7311.000	39.61	-2.58	54.00	14.39	150	Horizontal
6	7311.000	49.45	-2.58	74.00	24.55	150	Horizontal

Final Data List

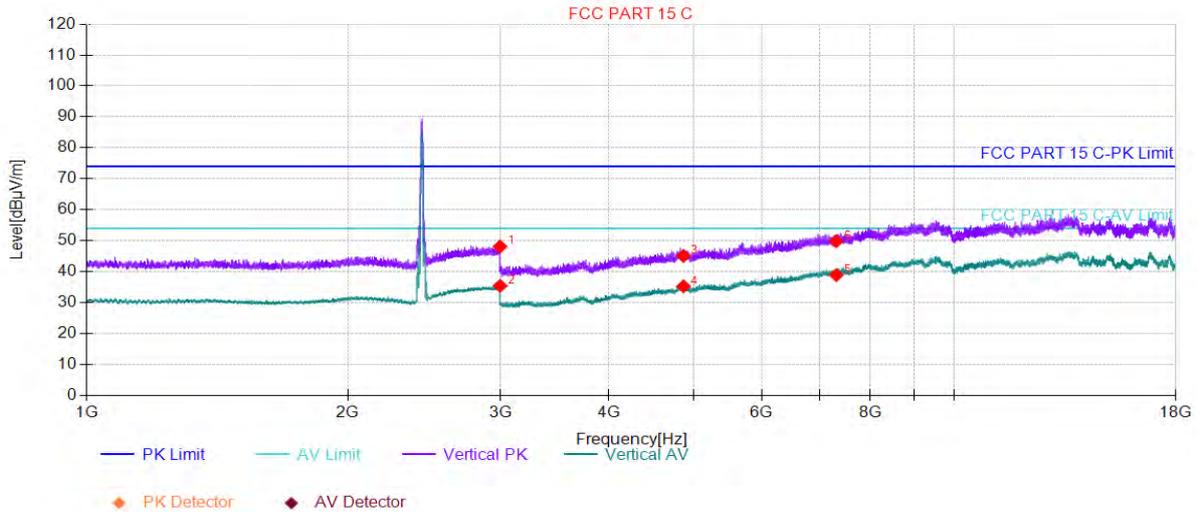


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4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.399	48.10	7.39	74.00	25.90	150	Vertical
2	2996.399	35.38	7.39	54.00	18.62	150	Vertical
3	4874.000	45.06	-10.40	74.00	28.94	150	Vertical
4	4874.000	35.21	-10.40	54.00	18.79	150	Vertical
5	7311.000	38.86	-2.58	54.00	15.14	150	Vertical
6	7311.000	49.83	-2.58	74.00	24.17	150	Vertical

Final Data List

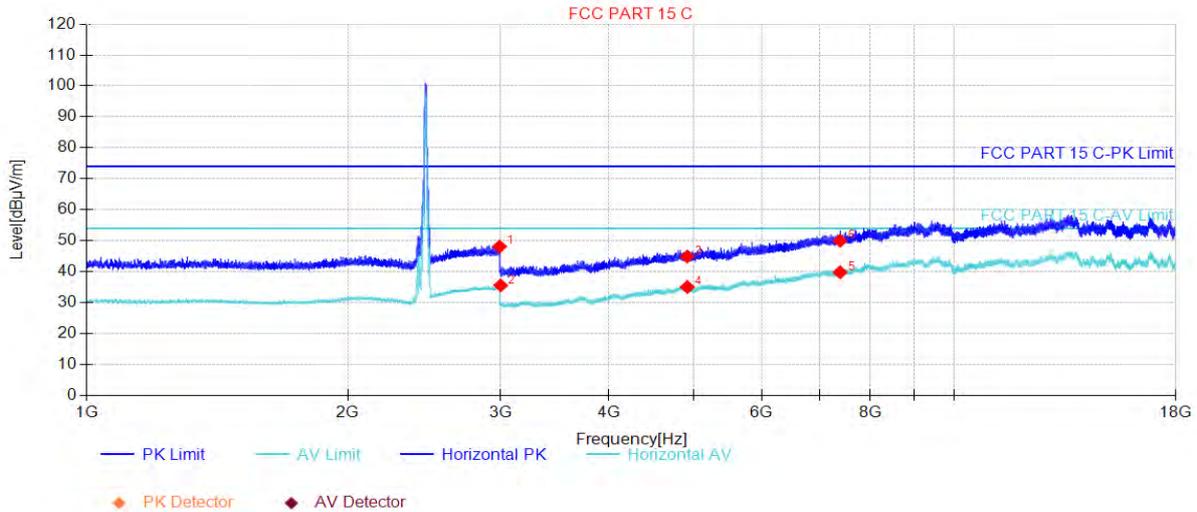
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4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.999	48.07	7.37	74.00	25.93	150	Horizontal
2	3000.000	35.52	7.41	54.00	18.48	150	Horizontal
3	4924.000	44.85	-10.22	74.00	29.15	150	Horizontal
4	4924.000	35.00	-10.22	54.00	19.00	150	Horizontal
5	7386.000	39.77	-2.06	54.00	14.23	150	Horizontal
6	7386.000	49.95	-2.06	74.00	24.05	150	Horizontal

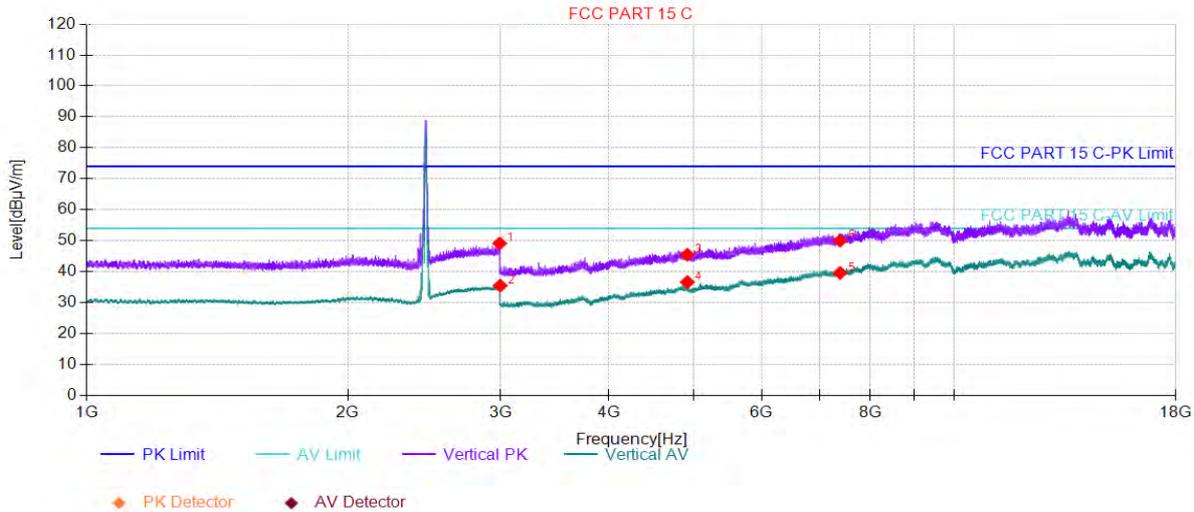
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4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.399	49.12	7.38	74.00	24.88	150	Vertical
2	2996.199	35.44	7.39	54.00	18.56	150	Vertical
3	4924.000	45.42	-10.22	74.00	28.58	150	Vertical
4	4924.000	36.58	-10.22	54.00	17.42	150	Vertical
5	7386.000	39.56	-2.06	54.00	14.44	150	Vertical
6	7386.000	50.00	-2.06	74.00	24.00	150	Vertical

Final Data List

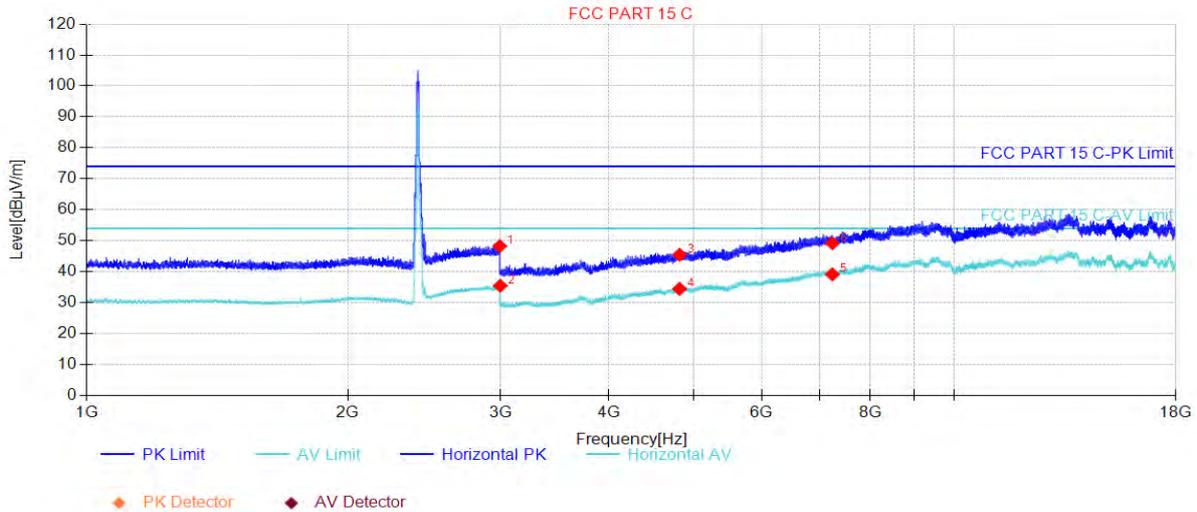


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4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.799	48.22	7.38	74.00	25.78	150	Horizontal
2	2997.199	35.41	7.40	54.00	18.59	150	Horizontal
3	4824.000	45.43	-10.56	74.00	28.57	150	Horizontal
4	4824.000	34.40	-10.56	54.00	19.60	150	Horizontal
5	7236.000	39.10	-2.59	54.00	14.90	150	Horizontal
6	7236.000	49.13	-2.59	74.00	24.87	150	Horizontal

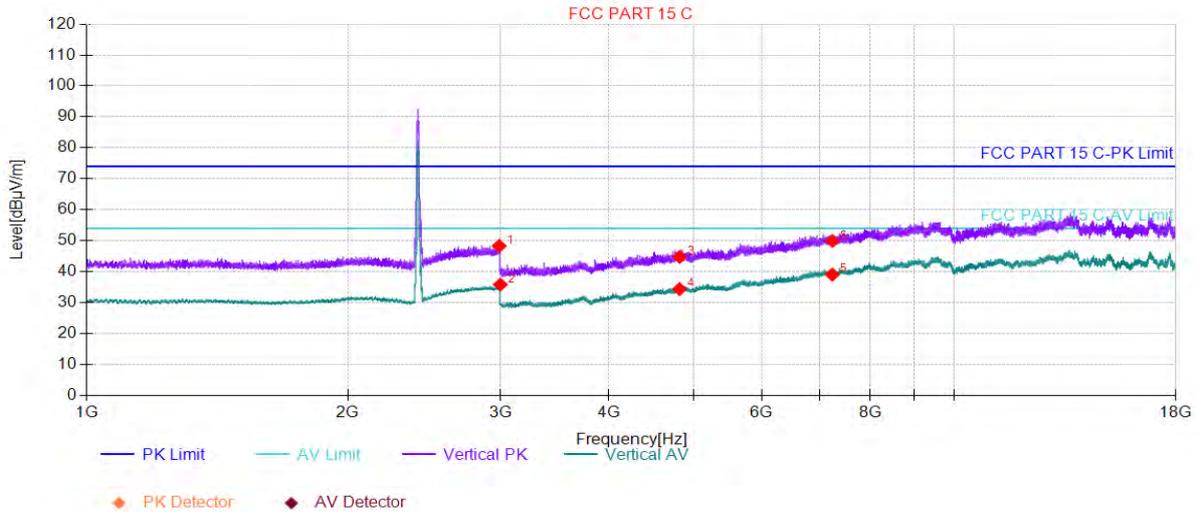
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4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2989.398	48.28	7.36	74.00	25.72	150	Vertical
2	2998.199	35.78	7.40	54.00	18.22	150	Vertical
3	4824.000	44.76	-10.56	74.00	29.24	150	Vertical
4	4824.000	34.33	-10.56	54.00	19.67	150	Vertical
5	7236.000	39.02	-2.59	54.00	14.98	150	Vertical
6	7236.000	49.91	-2.59	74.00	24.09	150	Vertical

Final Data List

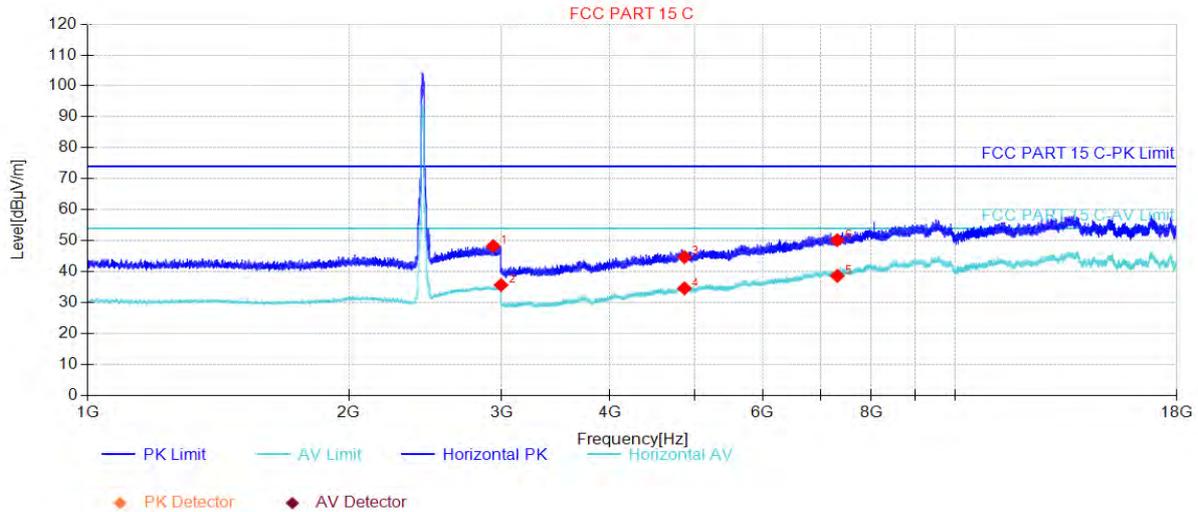


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4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2933.993	48.24	7.11	74.00	25.76	150	Horizontal
2	2995.199	35.65	7.39	54.00	18.35	150	Horizontal
3	4874.000	44.70	-10.40	74.00	29.30	150	Horizontal
4	4874.000	34.58	-10.40	54.00	19.42	150	Horizontal
5	7311.000	38.59	-2.58	54.00	15.41	150	Horizontal
6	7311.000	50.16	-2.58	74.00	23.84	150	Horizontal

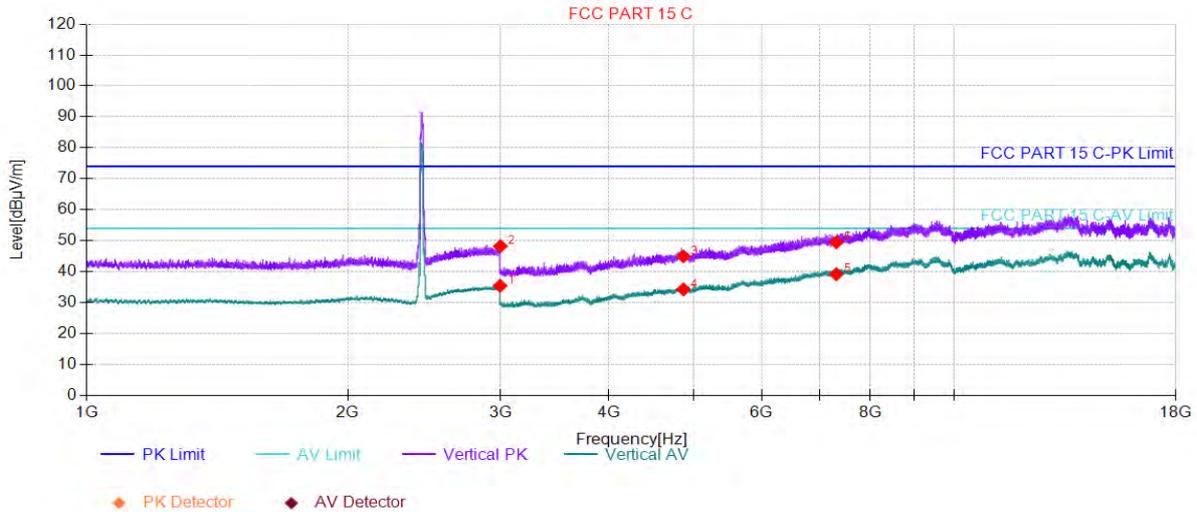
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4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.999	35.40	7.39	54.00	18.60	150	Vertical
2	2998.799	48.21	7.40	74.00	25.79	150	Vertical
3	4874.000	44.92	-10.40	74.00	29.08	150	Vertical
4	4874.000	34.22	-10.40	54.00	19.78	150	Vertical
5	7311.000	39.14	-2.58	54.00	14.86	150	Vertical
6	7311.000	49.43	-2.58	74.00	24.57	150	Vertical

Final Data List

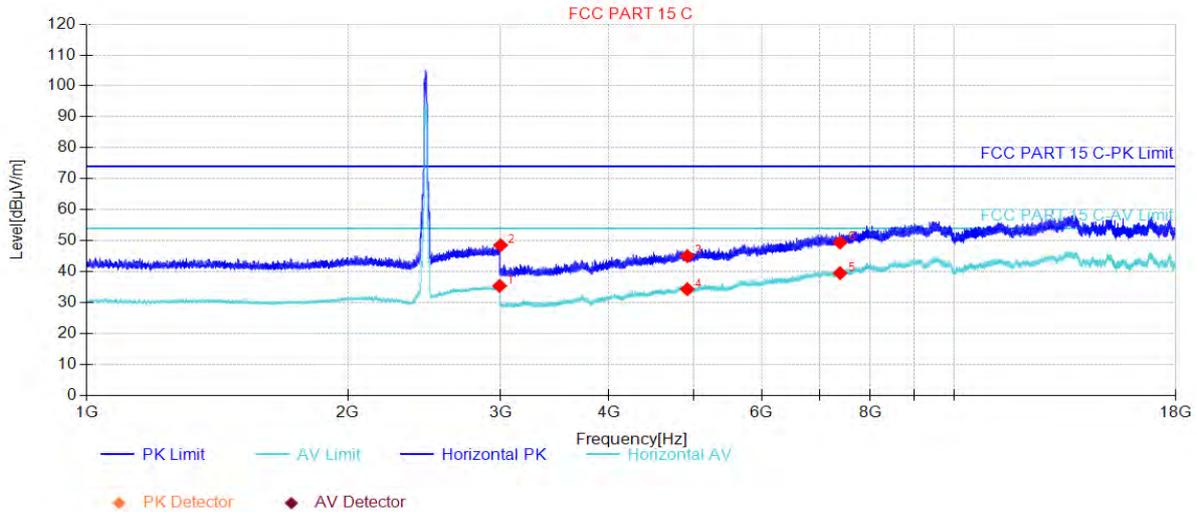


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4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.799	35.37	7.37	54.00	18.63	150	Horizontal
2	2999.800	48.51	7.41	74.00	25.49	150	Horizontal
3	4924.000	45.01	-10.22	74.00	28.99	150	Horizontal
4	4924.000	34.28	-10.22	54.00	19.72	150	Horizontal
5	7386.000	39.48	-2.06	54.00	14.52	150	Horizontal
6	7386.000	49.39	-2.06	74.00	24.61	150	Horizontal

Final Data List

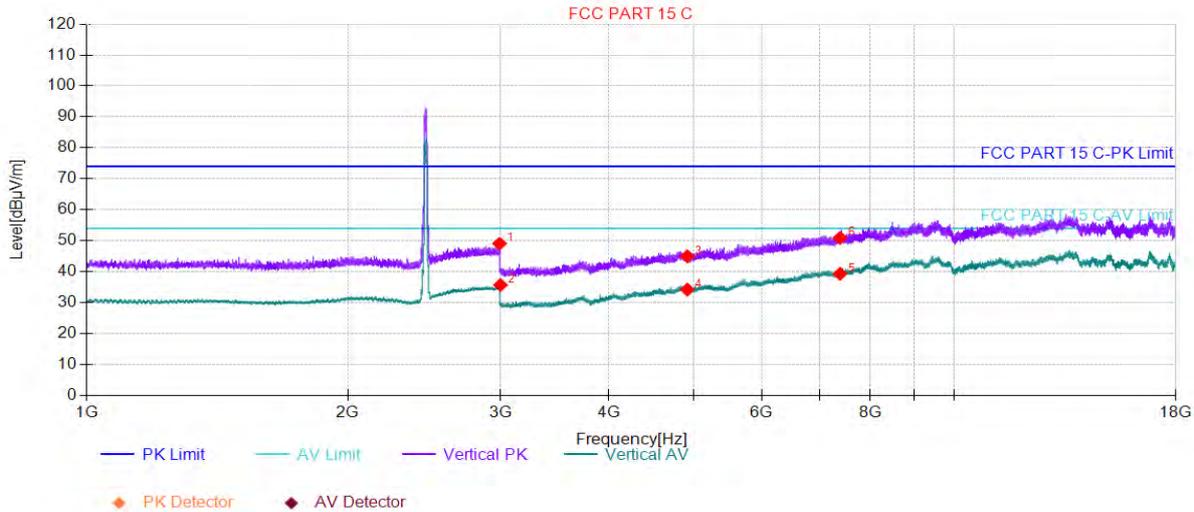


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4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.399	49.06	7.37	74.00	24.94	150	Vertical
2	2999.199	35.67	7.41	54.00	18.33	150	Vertical
3	4924.000	44.92	-10.22	74.00	29.08	150	Vertical
4	4924.000	34.16	-10.22	54.00	19.84	150	Vertical
5	7386.000	39.26	-2.06	54.00	14.74	150	Vertical
6	7386.000	50.89	-2.06	74.00	23.11	150	Vertical

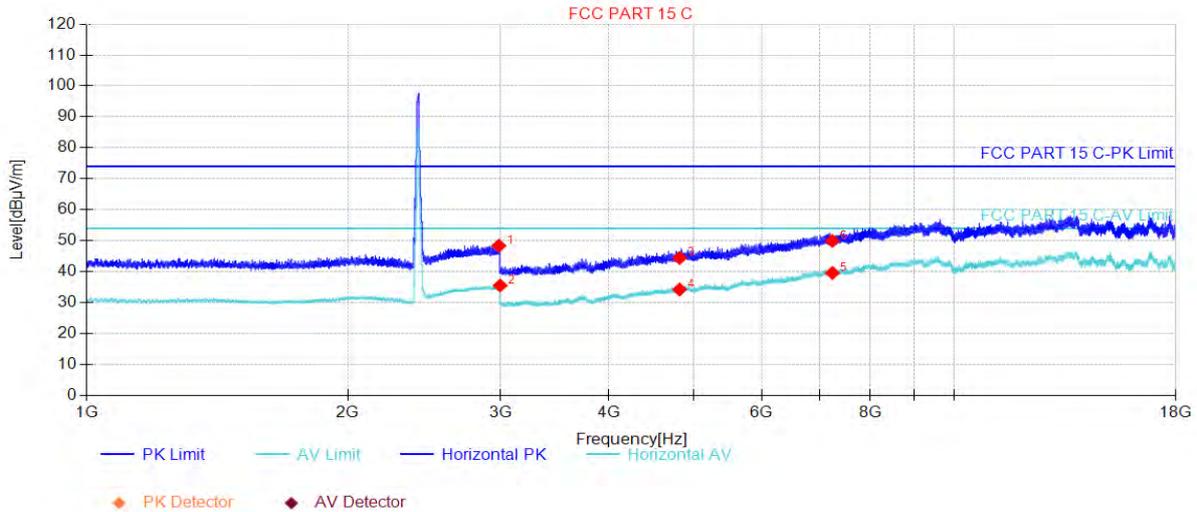
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4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2986.598	48.35	7.35	74.00	25.65	150	Horizontal
2	2995.999	35.47	7.39	54.00	18.53	150	Horizontal
3	4824.000	44.40	-10.56	74.00	29.60	150	Horizontal
4	4824.000	34.20	-10.56	54.00	19.80	150	Horizontal
5	7236.000	39.55	-2.59	54.00	14.45	150	Horizontal
6	7236.000	49.92	-2.59	74.00	24.08	150	Horizontal

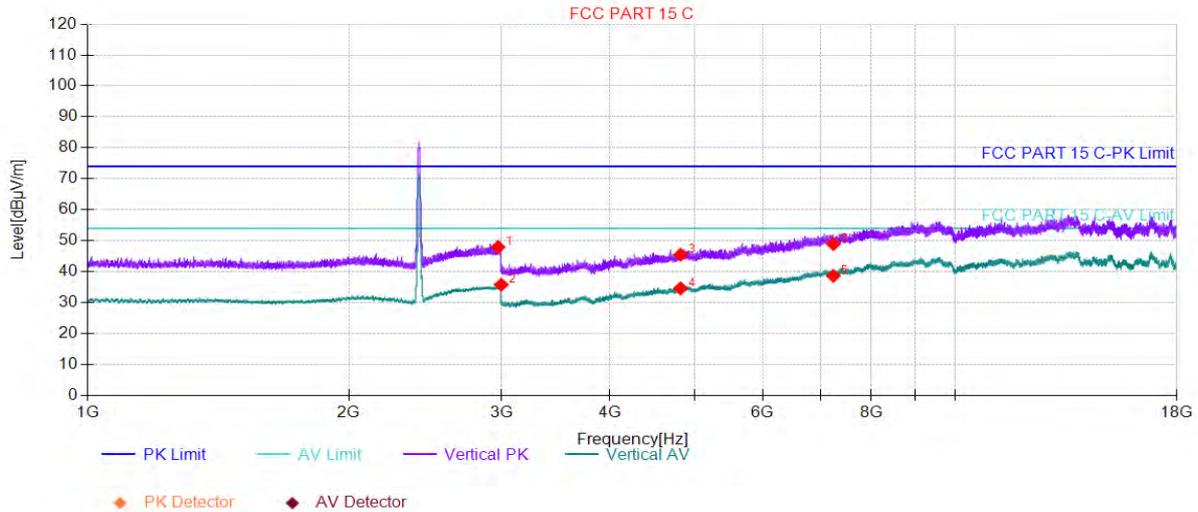
Final Data List



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4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2972.197	47.92	7.28	74.00	26.08	150	Vertical
2	2997.399	35.75	7.40	54.00	18.25	150	Vertical
3	4824.000	45.45	-10.56	74.00	28.55	150	Vertical
4	4824.000	34.55	-10.56	54.00	19.45	150	Vertical
5	7236.000	38.59	-2.59	54.00	15.41	150	Vertical
6	7236.000	48.91	-2.59	74.00	25.09	150	Vertical

Final Data List

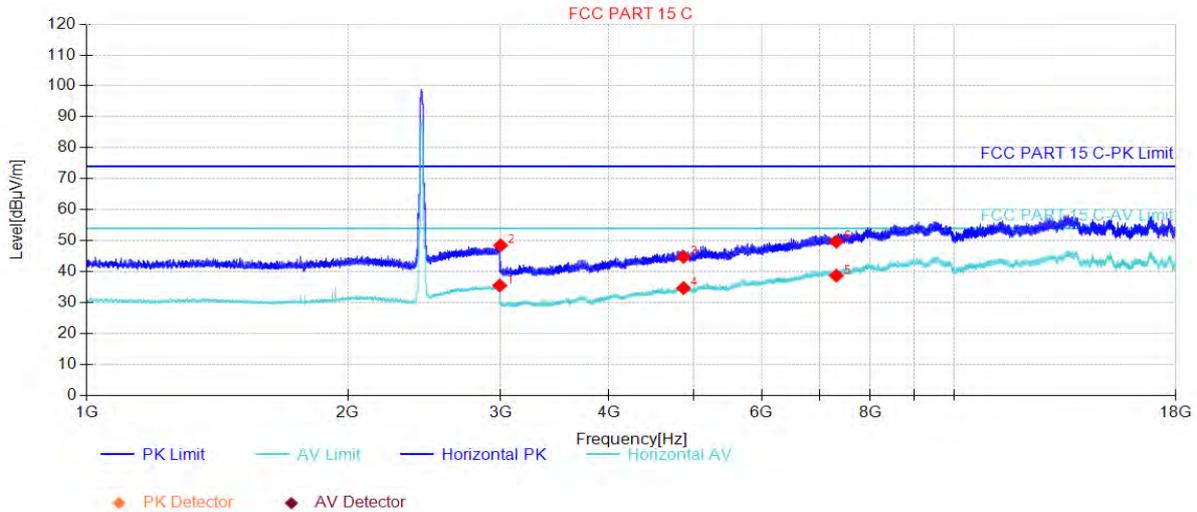


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4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	35.47	7.38	54.00	18.53	150	Horizontal
2	2999.399	48.43	7.41	74.00	25.57	150	Horizontal
3	4874.000	44.75	-10.40	74.00	29.25	150	Horizontal
4	4874.000	34.65	-10.40	54.00	19.35	150	Horizontal
5	7311.000	38.66	-2.58	54.00	15.34	150	Horizontal
6	7311.000	49.66	-2.58	74.00	24.34	150	Horizontal

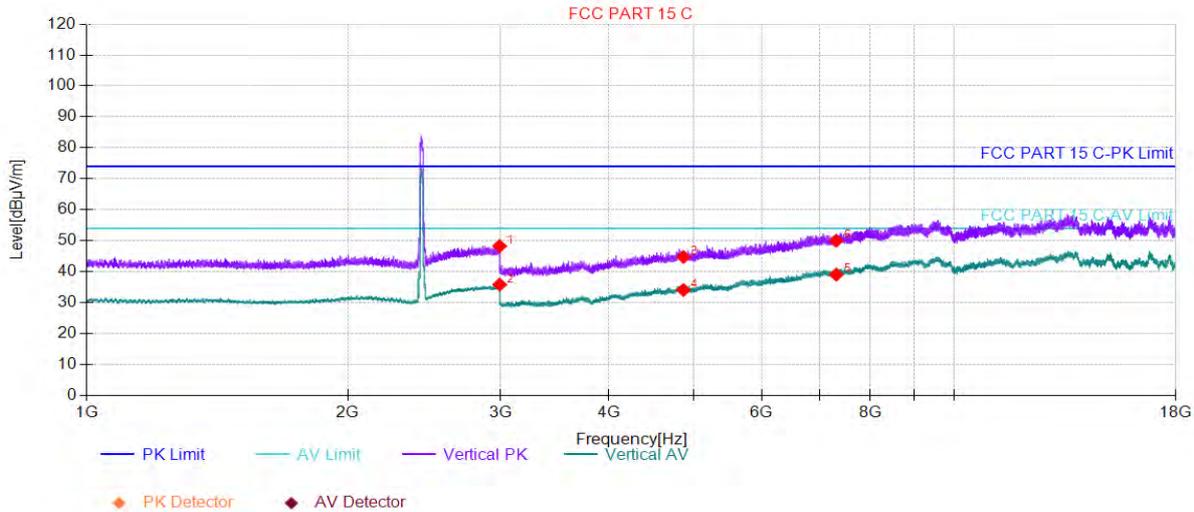
Final Data List



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4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.999	48.23	7.37	74.00	25.77	150	Vertical
2	2992.799	35.78	7.38	54.00	18.22	150	Vertical
3	4874.000	44.72	-10.40	74.00	29.28	150	Vertical
4	4874.000	34.02	-10.40	54.00	19.98	150	Vertical
5	7311.000	39.01	-2.58	54.00	14.99	150	Vertical
6	7311.000	49.99	-2.58	74.00	24.01	150	Vertical

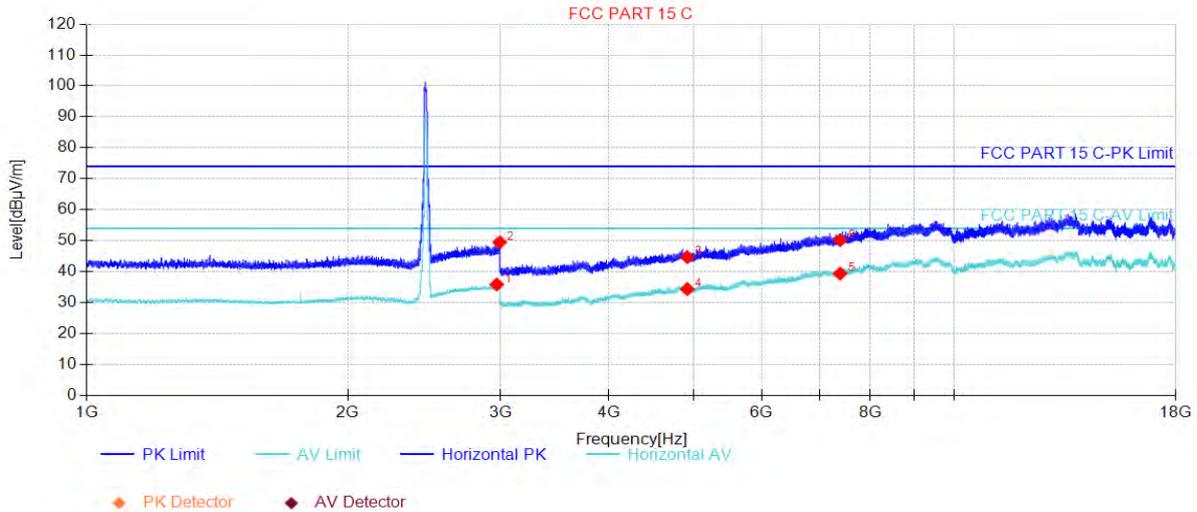
Final Data List



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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2969.396	35.81	7.27	54.00	18.19	150	Horizontal
2	2992.999	49.48	7.38	74.00	24.52	150	Horizontal
3	4924.000	44.67	-10.22	74.00	29.33	150	Horizontal
4	4924.000	34.31	-10.22	54.00	19.69	150	Horizontal
5	7386.000	39.33	-2.06	54.00	14.67	150	Horizontal
6	7386.000	50.15	-2.06	74.00	23.85	150	Horizontal

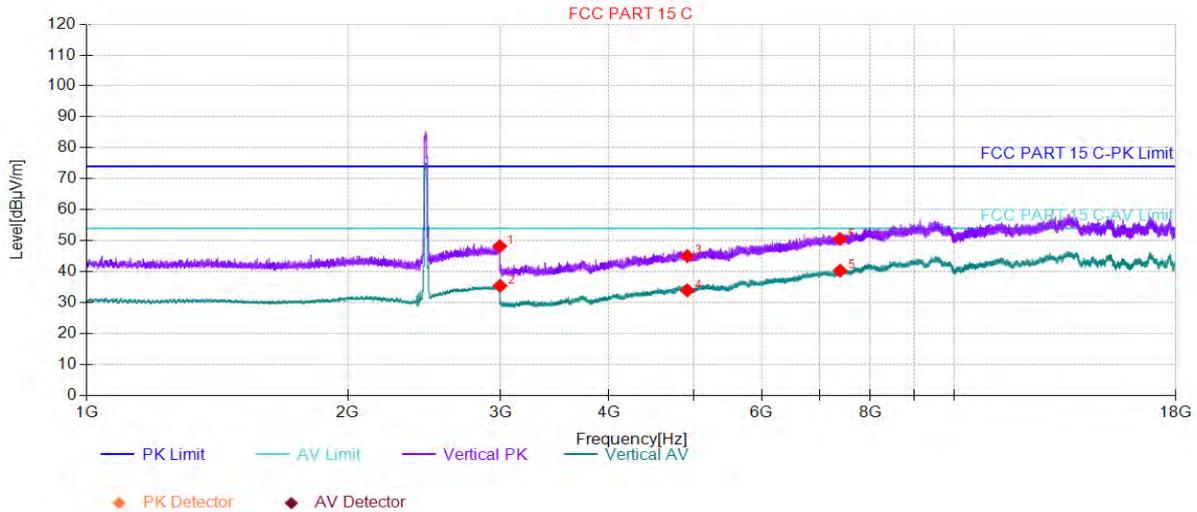
Final Data List



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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.799	48.19	7.38	74.00	25.81	150	Vertical
2	2995.399	35.39	7.39	54.00	18.61	150	Vertical
3	4924.000	45.01	-10.22	74.00	28.99	150	Vertical
4	4924.000	33.93	-10.22	54.00	20.07	150	Vertical
5	7386.000	40.28	-2.06	54.00	13.72	150	Vertical
6	7386.000	50.52	-2.06	74.00	23.48	150	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.799	48.19	7.38	74.00	25.81	150	Vertical
2	2995.399	35.39	7.39	54.00	18.61	150	Vertical
3	4924.000	45.01	-10.22	74.00	28.99	150	Vertical
4	4924.000	33.93	-10.22	54.00	20.07	150	Vertical
5	7386.000	40.28	-2.06	54.00	13.72	150	Vertical
6	7386.000	50.52	-2.06	74.00	23.48	150	Vertical

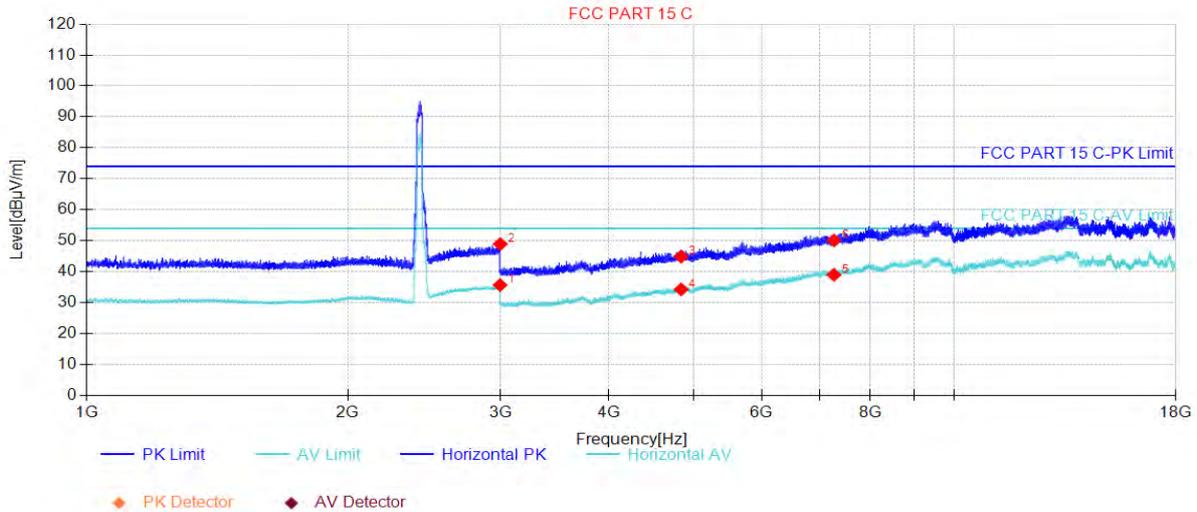


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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.799	35.64	7.39	54.00	18.36	150	Horizontal
2	2997.599	48.91	7.40	74.00	25.09	150	Horizontal
3	4844.000	44.85	-10.50	74.00	29.15	150	Horizontal
4	4844.000	34.22	-10.50	54.00	19.78	150	Horizontal
5	7266.000	38.94	-2.62	54.00	15.06	150	Horizontal
6	7266.000	50.08	-2.62	74.00	23.92	150	Horizontal

Final Data List

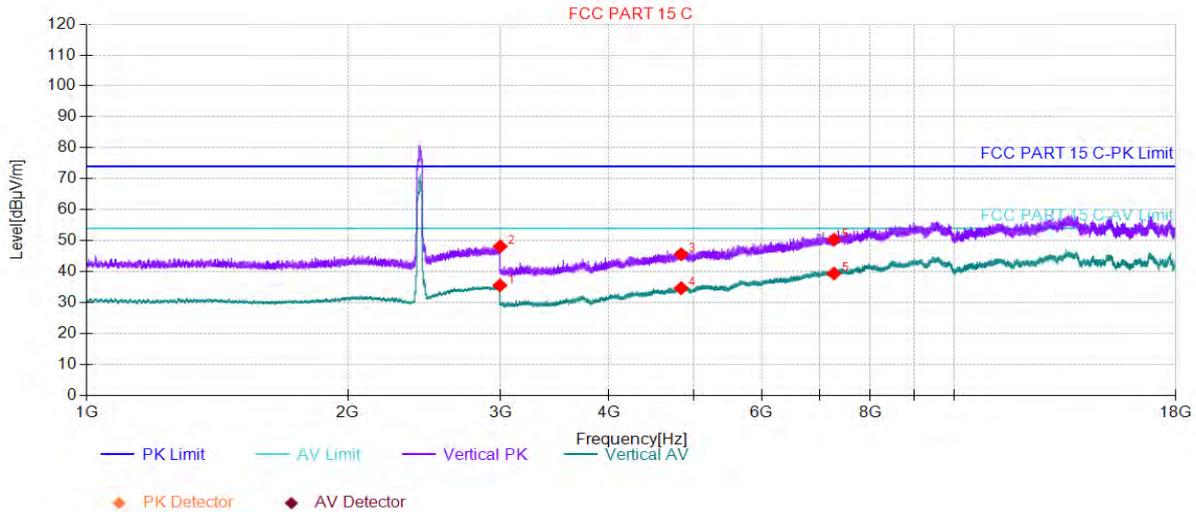


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4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.199	35.51	7.38	54.00	18.49	150	Vertical
2	2997.199	48.12	7.40	74.00	25.88	150	Vertical
3	4844.000	45.59	-10.50	74.00	28.41	150	Vertical
4	4844.000	34.62	-10.50	54.00	19.38	150	Vertical
5	7266.000	39.35	-2.62	54.00	14.65	150	Vertical
6	7266.000	50.30	-2.62	74.00	23.70	150	Vertical

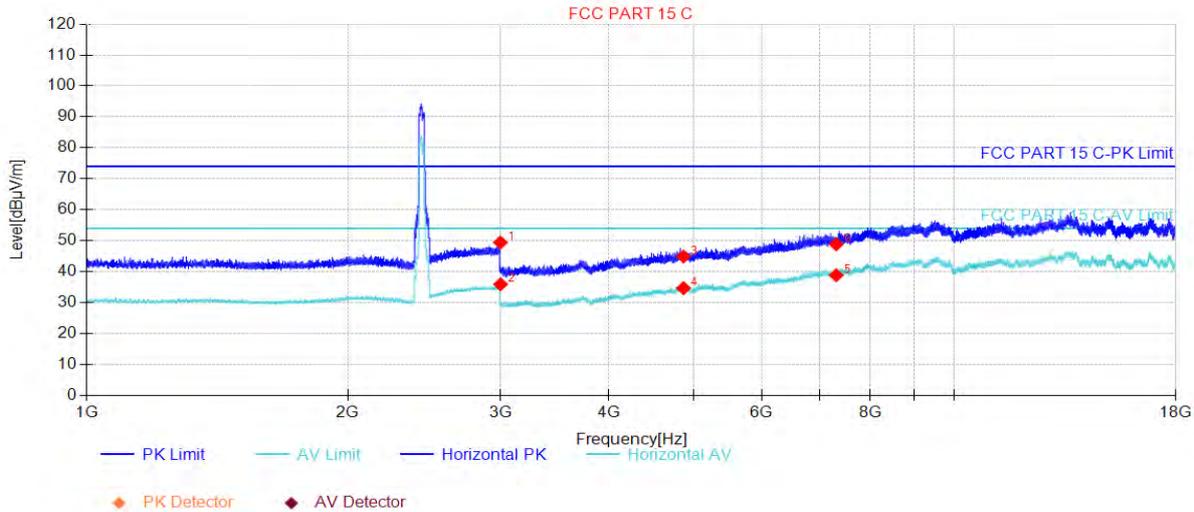
Final Data List



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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

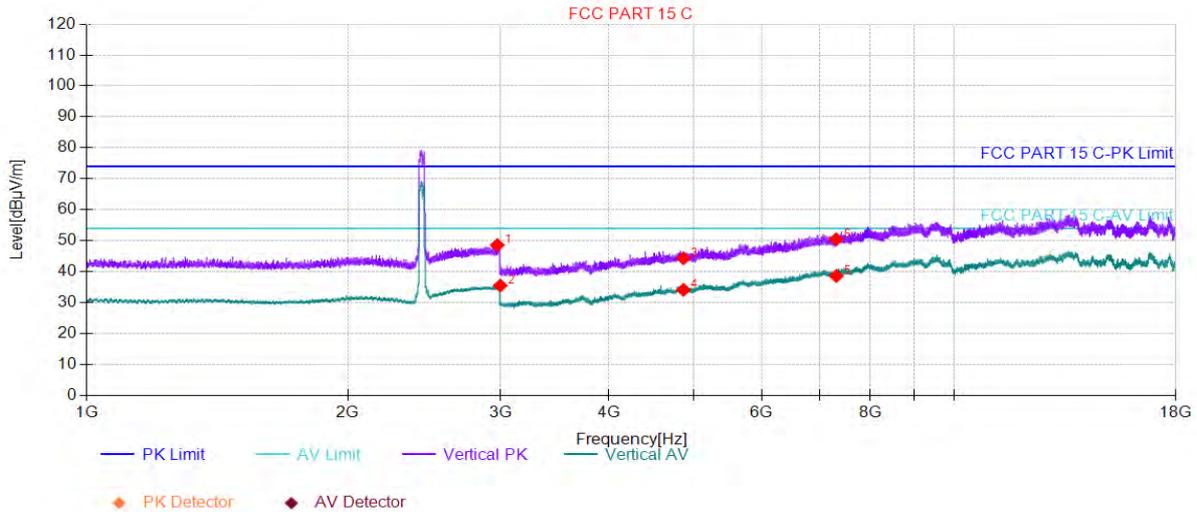
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2998.599	49.39	7.40	74.00	24.61	150	Horizontal
2	2999.600	35.86	7.41	54.00	18.14	150	Horizontal
3	4874.000	44.88	-10.40	74.00	29.12	150	Horizontal
4	4874.000	34.64	-10.40	54.00	19.36	150	Horizontal
5	7311.000	38.80	-2.58	54.00	15.20	150	Horizontal
6	7311.000	48.80	-2.58	74.00	25.20	150	Horizontal

Final Data List

(This section is intentionally left blank in the provided image.)

4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2974.197	48.55	7.29	74.00	25.45	150	Vertical
2	2997.399	35.46	7.40	54.00	18.54	150	Vertical
3	4874.000	44.29	-10.40	74.00	29.71	150	Vertical
4	4874.000	34.06	-10.40	54.00	19.94	150	Vertical
5	7311.000	38.55	-2.58	54.00	15.45	150	Vertical
6	7311.000	50.44	-2.58	74.00	23.56	150	Vertical

Final Data List

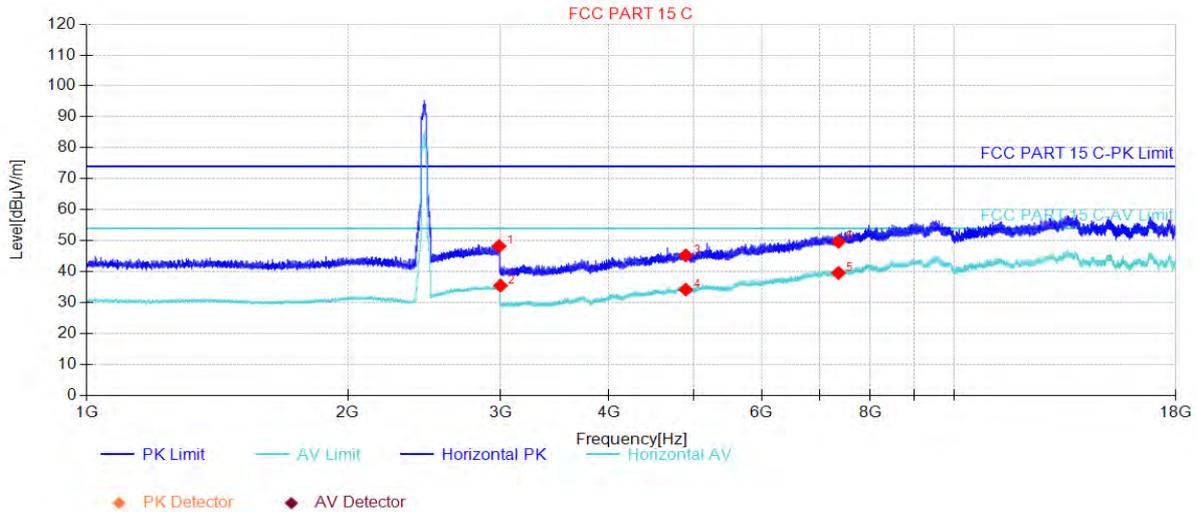


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4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.798	48.21	7.35	74.00	25.79	150	Horizontal
2	2998.999	35.46	7.41	54.00	18.54	150	Horizontal
3	4904.000	45.22	-10.30	74.00	28.78	150	Horizontal
4	4904.000	34.15	-10.30	54.00	19.85	150	Horizontal
5	7356.000	39.57	-2.27	54.00	14.43	150	Horizontal
6	7356.000	49.64	-2.27	74.00	24.36	150	Horizontal

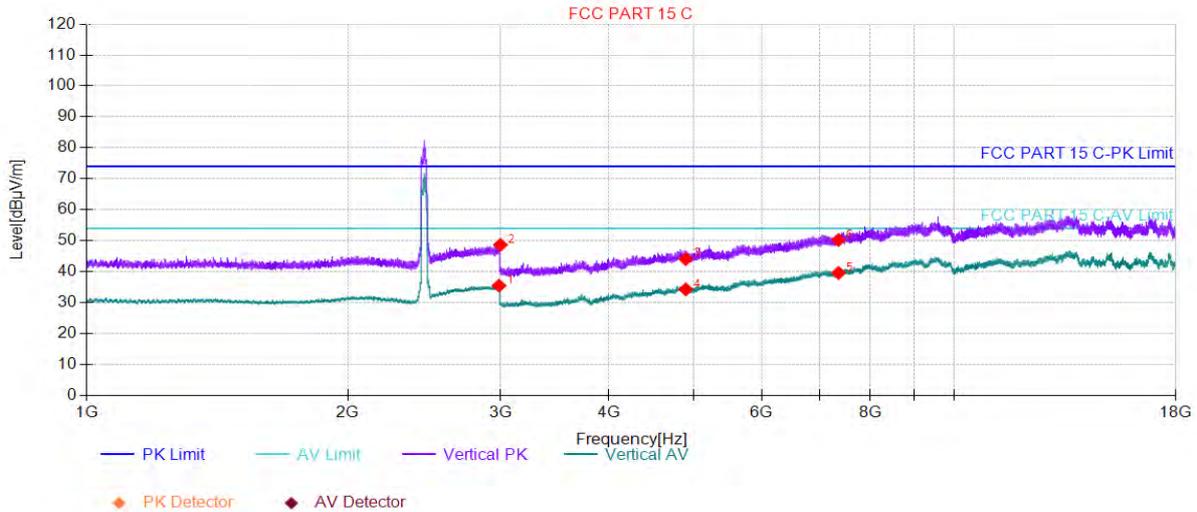
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4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.398	35.43	7.35	54.00	18.57	150	Vertical
2	2998.599	48.63	7.40	74.00	25.37	150	Vertical
3	4904.000	44.04	-10.30	74.00	29.96	150	Vertical
4	4904.000	34.23	-10.30	54.00	19.77	150	Vertical
5	7356.000	39.56	-2.27	54.00	14.44	150	Vertical
6	7356.000	50.23	-2.27	74.00	23.77	150	Vertical

Final Data List

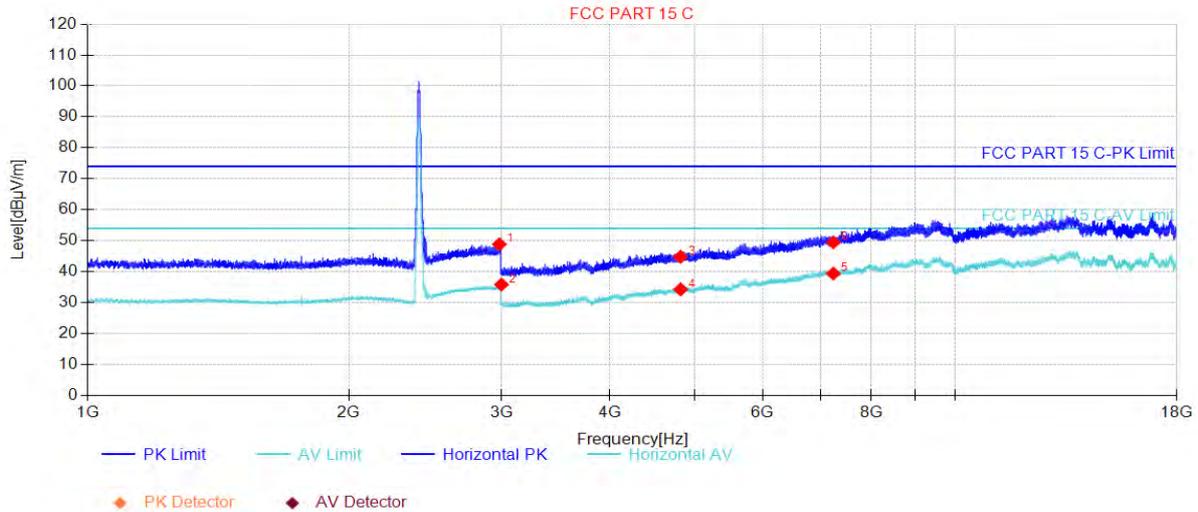


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4.9.2.25 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.398	48.81	7.33	74.00	25.19	150	Horizontal
2	2998.999	35.79	7.41	54.00	18.21	150	Horizontal
3	4824.000	44.78	-10.56	74.00	29.22	150	Horizontal
4	4824.000	34.23	-10.56	54.00	19.77	150	Horizontal
5	7236.000	39.37	-2.59	54.00	14.63	150	Horizontal
6	7236.000	49.45	-2.59	74.00	24.55	150	Horizontal

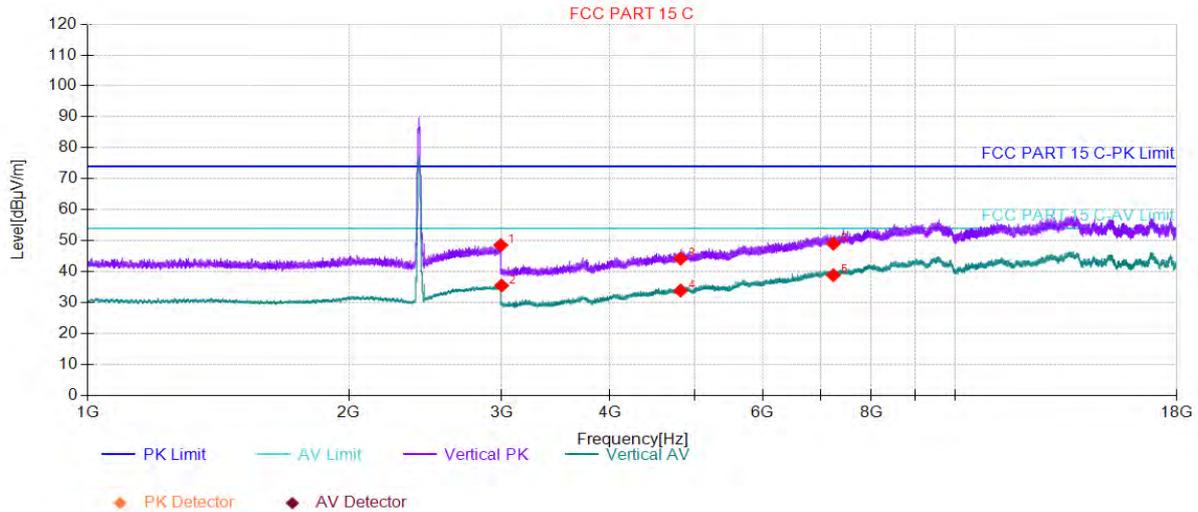
Final Data List



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4.9.2.26 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	48.51	7.38	74.00	25.49	150	Vertical
2	3000.000	35.48	7.41	54.00	18.52	150	Vertical
3	4824.000	44.17	-10.56	74.00	29.83	150	Vertical
4	4824.000	33.85	-10.56	54.00	20.15	150	Vertical
5	7236.000	38.81	-2.59	54.00	15.19	150	Vertical
6	7236.000	48.99	-2.59	74.00	25.01	150	Vertical

Final Data List

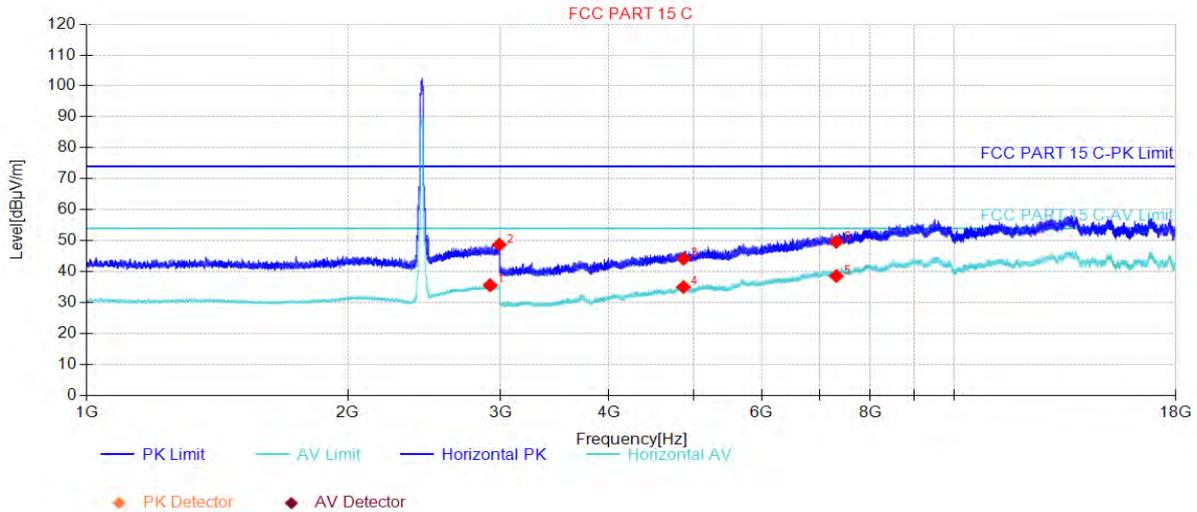


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4.9.2.27 802.11AX20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2917.991	35.55	7.03	54.00	18.45	150	Horizontal
2	2989.799	48.67	7.36	74.00	25.33	150	Horizontal
3	4874.000	44.13	-10.40	74.00	29.87	150	Horizontal
4	4874.000	34.96	-10.40	54.00	19.04	150	Horizontal
5	7311.000	38.54	-2.58	54.00	15.46	150	Horizontal
6	7311.000	49.63	-2.58	74.00	24.37	150	Horizontal

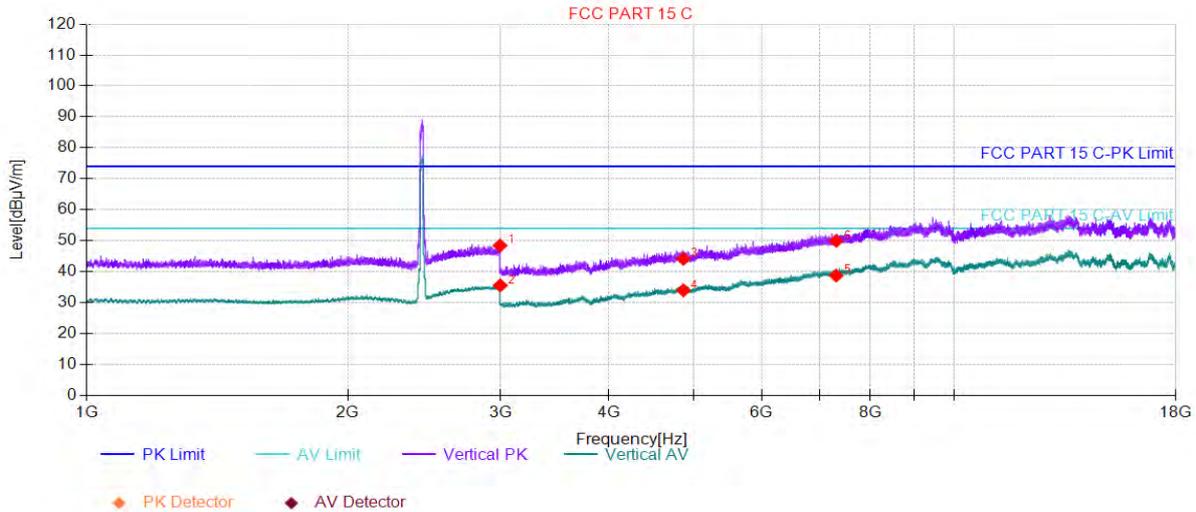
Final Data List



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4.9.2.28 802.11AX20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.999	48.40	7.39	74.00	25.60	150	Vertical
2	2997.199	35.52	7.40	54.00	18.48	150	Vertical
3	4874.000	44.10	-10.40	74.00	29.90	150	Vertical
4	4874.000	33.92	-10.40	54.00	20.08	150	Vertical
5	7311.000	38.69	-2.58	54.00	15.31	150	Vertical
6	7311.000	49.93	-2.58	74.00	24.07	150	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.999	48.40	7.39	74.00	25.60	150	Vertical
2	2997.199	35.52	7.40	54.00	18.48	150	Vertical
3	4874.000	44.10	-10.40	74.00	29.90	150	Vertical
4	4874.000	33.92	-10.40	54.00	20.08	150	Vertical
5	7311.000	38.69	-2.58	54.00	15.31	150	Vertical
6	7311.000	49.93	-2.58	74.00	24.07	150	Vertical



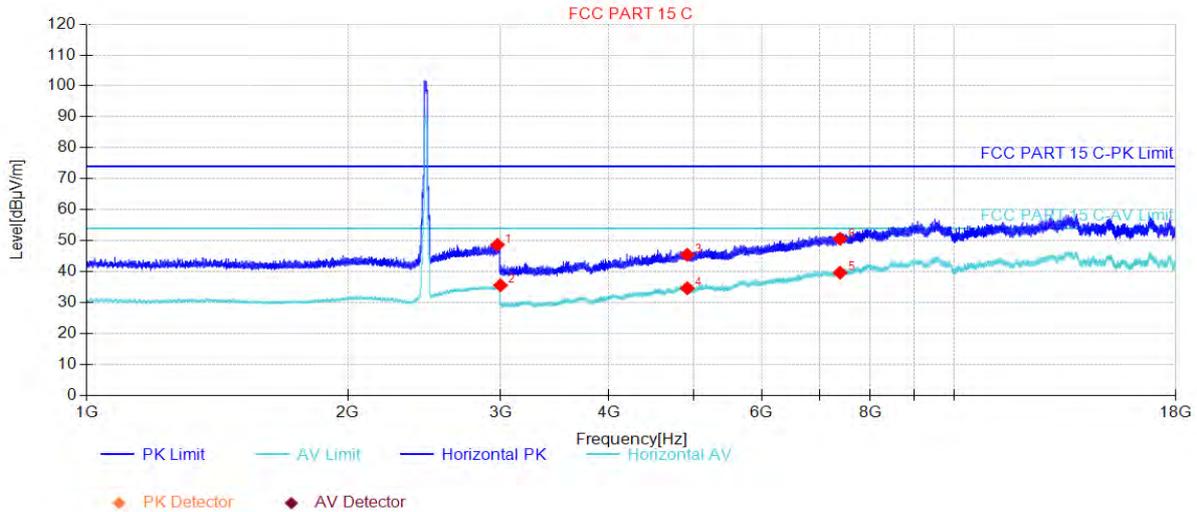
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.9.2.29 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2975.397	48.65	7.30	74.00	25.35	150	Horizontal
2	2998.799	35.56	7.40	54.00	18.44	150	Horizontal
3	4924.000	45.41	-10.22	74.00	28.59	150	Horizontal
4	4924.000	34.61	-10.22	54.00	19.39	150	Horizontal
5	7386.000	39.62	-2.06	54.00	14.38	150	Horizontal
6	7386.000	50.57	-2.06	74.00	23.43	150	Horizontal

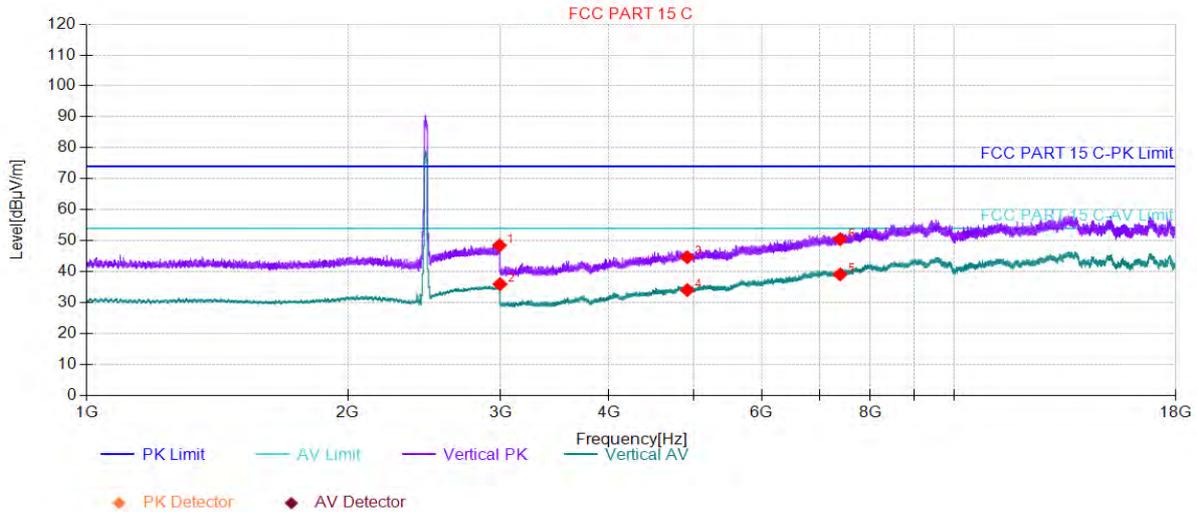
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4.9.2.30 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.799	48.44	7.37	74.00	25.56	150	Vertical
2	2995.799	35.93	7.39	54.00	18.07	150	Vertical
3	4924.000	44.63	-10.22	74.00	29.37	150	Vertical
4	4924.000	34.01	-10.22	54.00	19.99	150	Vertical
5	7386.000	39.06	-2.06	54.00	14.94	150	Vertical
6	7386.000	50.44	-2.06	74.00	23.56	150	Vertical

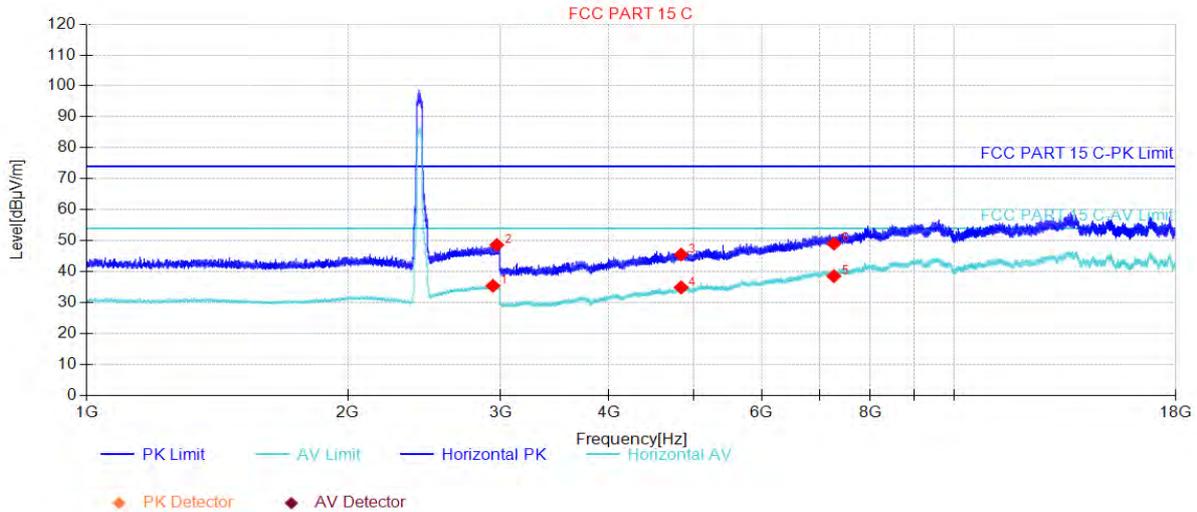
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4.9.2.31 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2939.393	35.39	7.13	54.00	18.61	150	Horizontal
2	2970.197	48.61	7.27	74.00	25.39	150	Horizontal
3	4844.000	45.47	-10.50	74.00	28.53	150	Horizontal
4	4844.000	34.85	-10.50	54.00	19.15	150	Horizontal
5	7266.000	38.52	-2.62	54.00	15.48	150	Horizontal
6	7266.000	49.01	-2.62	74.00	24.99	150	Horizontal

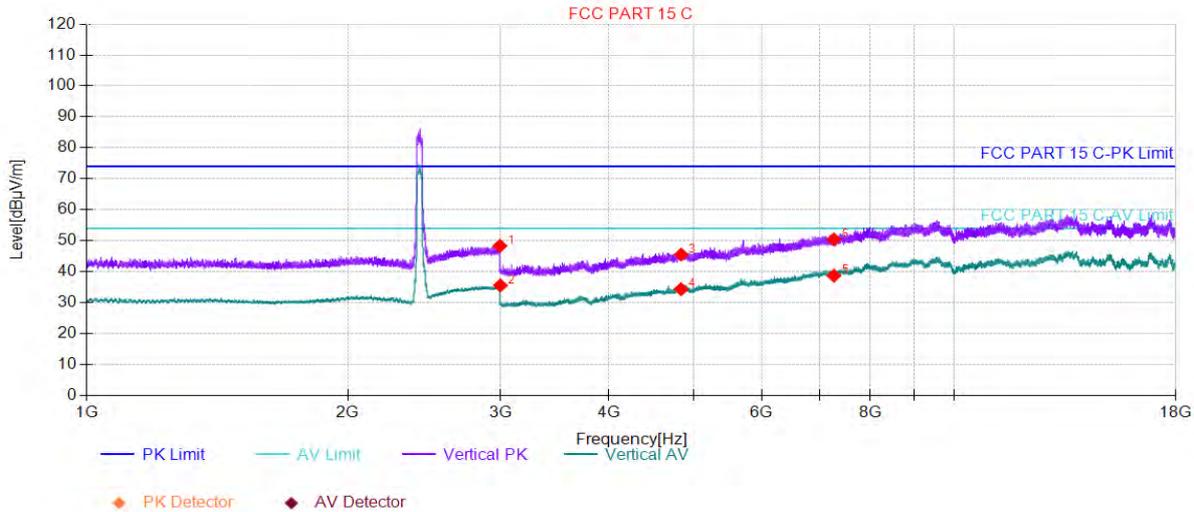
Final Data List



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4.9.2.32 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.799	48.30	7.39	74.00	25.70	150	Vertical
2	2998.199	35.52	7.40	54.00	18.48	150	Vertical
3	4844.000	45.48	-10.50	74.00	28.52	150	Vertical
4	4844.000	34.30	-10.50	54.00	19.70	150	Vertical
5	7266.000	38.67	-2.62	54.00	15.33	150	Vertical
6	7266.000	50.40	-2.62	74.00	23.60	150	Vertical

Final Data List

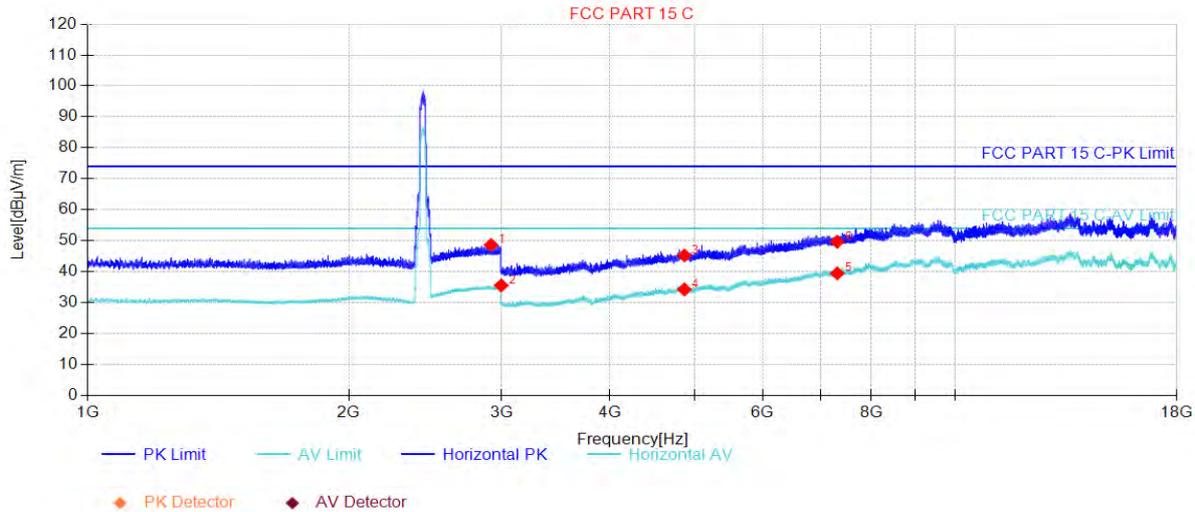
Final Data List table content is obscured by a large red watermark.



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4.9.2.33 802.11AX40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2917.591	48.60	7.03	74.00	25.40	150	Horizontal
2	2997.199	35.49	7.40	54.00	18.51	150	Horizontal
3	4874.000	45.19	-10.40	74.00	28.81	150	Horizontal
4	4874.000	34.20	-10.40	54.00	19.80	150	Horizontal
5	7311.000	39.42	-2.58	54.00	14.58	150	Horizontal
6	7311.000	49.63	-2.58	74.00	24.37	150	Horizontal

Final Data List

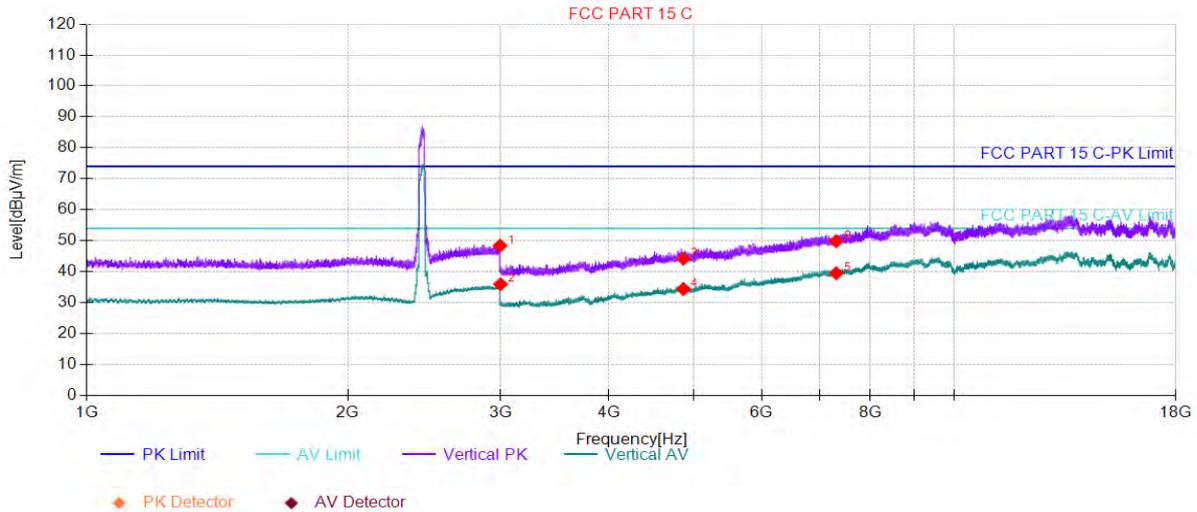


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4.9.2.34 802.11AX40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.399	48.34	7.39	74.00	25.66	150	Vertical
2	2999.399	35.89	7.41	54.00	18.11	150	Vertical
3	4874.000	44.09	-10.40	74.00	29.91	150	Vertical
4	4874.000	34.32	-10.40	54.00	19.68	150	Vertical
5	7311.000	39.46	-2.58	54.00	14.54	150	Vertical
6	7311.000	49.78	-2.58	74.00	24.22	150	Vertical

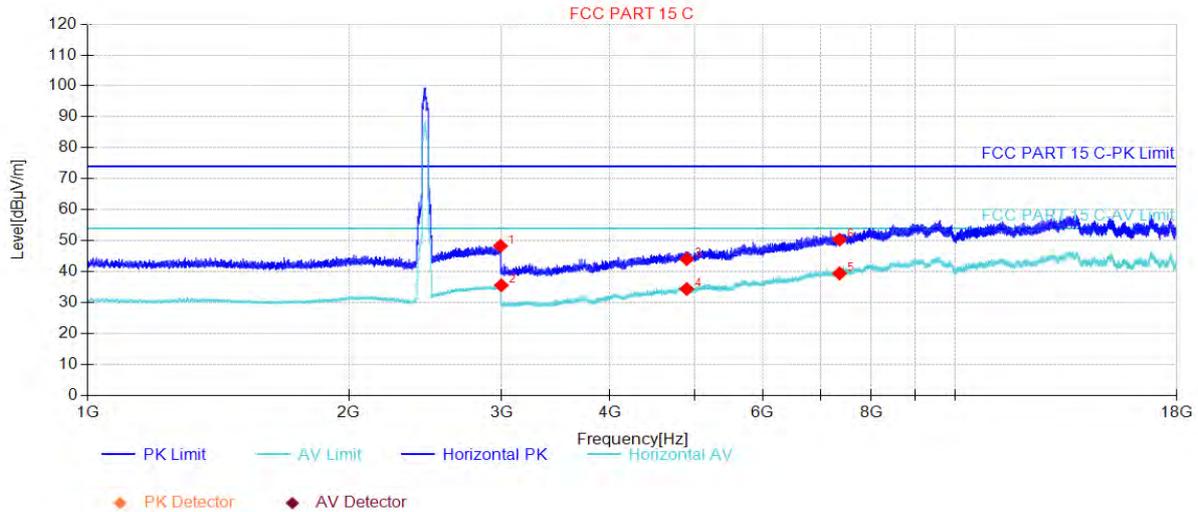
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4.9.2.35 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.199	48.28	7.37	74.00	25.72	150	Horizontal
2	2997.799	35.55	7.40	54.00	18.45	150	Horizontal
3	4904.000	44.00	-10.30	74.00	30.00	150	Horizontal
4	4904.000	34.35	-10.30	54.00	19.65	150	Horizontal
5	7356.000	39.40	-2.27	54.00	14.60	150	Horizontal
6	7356.000	50.32	-2.27	74.00	23.68	150	Horizontal

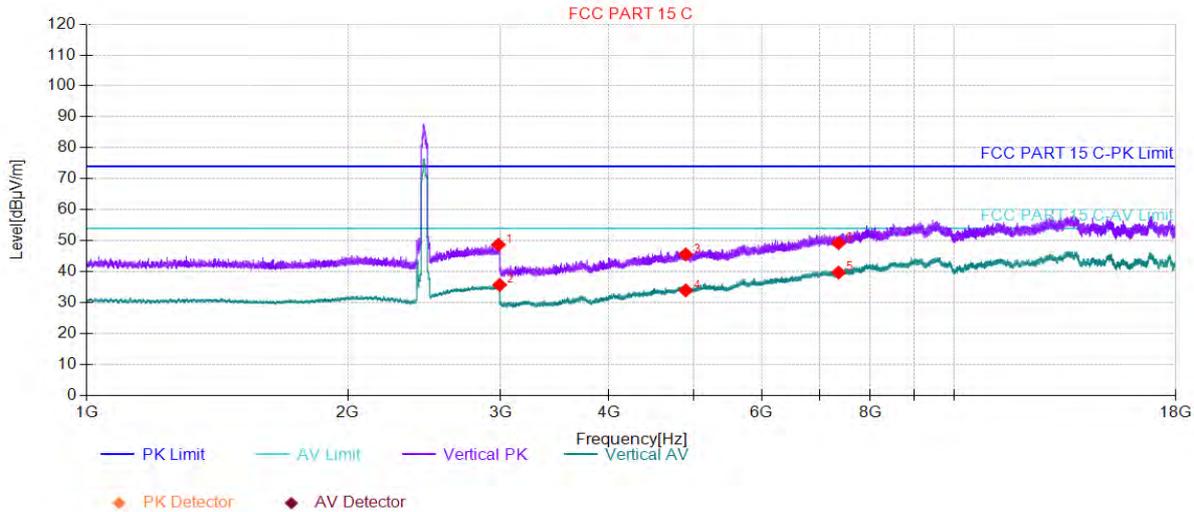
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4.9.2.36 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.398	48.68	7.33	74.00	25.32	150	Vertical
2	2992.399	35.67	7.38	54.00	18.33	150	Vertical
3	4904.000	45.54	-10.30	74.00	28.46	150	Vertical
4	4904.000	33.91	-10.30	54.00	20.09	150	Vertical
5	7356.000	39.69	-2.27	54.00	14.31	150	Vertical
6	7356.000	49.18	-2.27	74.00	24.82	150	Vertical

Final Data List

Remark:

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



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4.10 Restricted bands around fundamental frequency

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

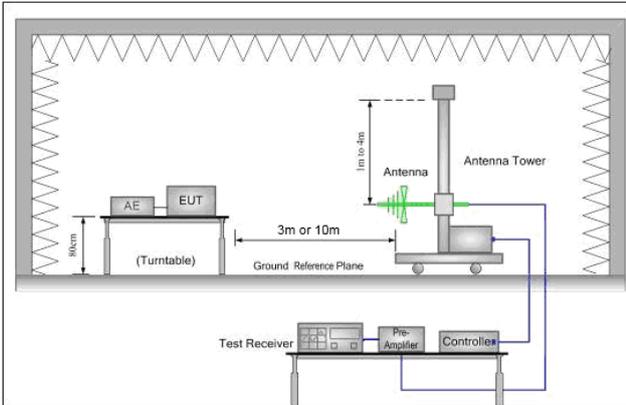


Figure 1. 30MHz to 1GHz

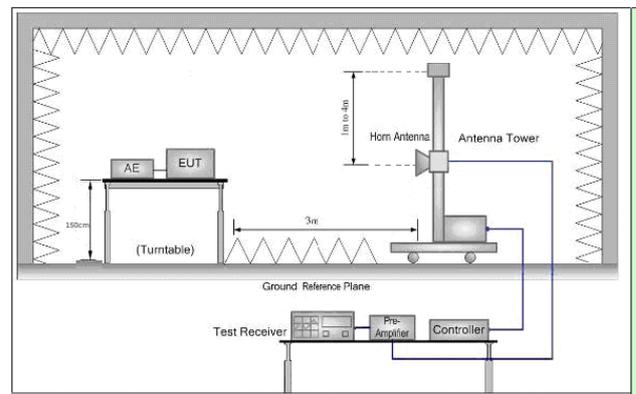


Figure 2. Above 1 GHz

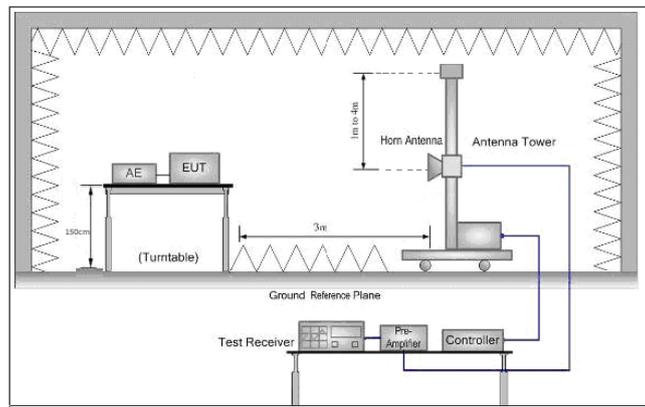


Figure 3. Above 1 GHz



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<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)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/AX(HE40); Only the worst case is recorded in the report. For AX OFDM/OFDMA, through Pre-scan, find OFDM is the worst case. 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>

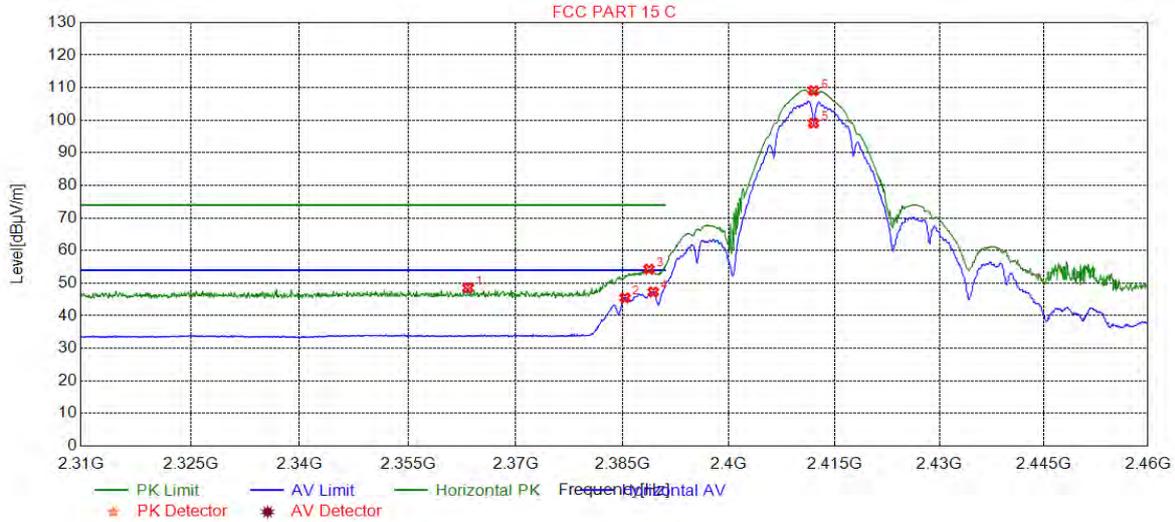


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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.351	48.58	74.00	25.42	150	159	Horizontal
2	2385.337	45.50	54.00	8.50	150	3	Horizontal
3	2388.714	54.28	74.00	19.72	150	0	Horizontal
4	2389.314	47.31	54.00	6.69	150	3	Horizontal
5	2412.000	99.14	0.00	-99.14	150	298	Horizontal
6	2412.000	109.07	0.00	-109.07	150	287	Horizontal

Final Data List

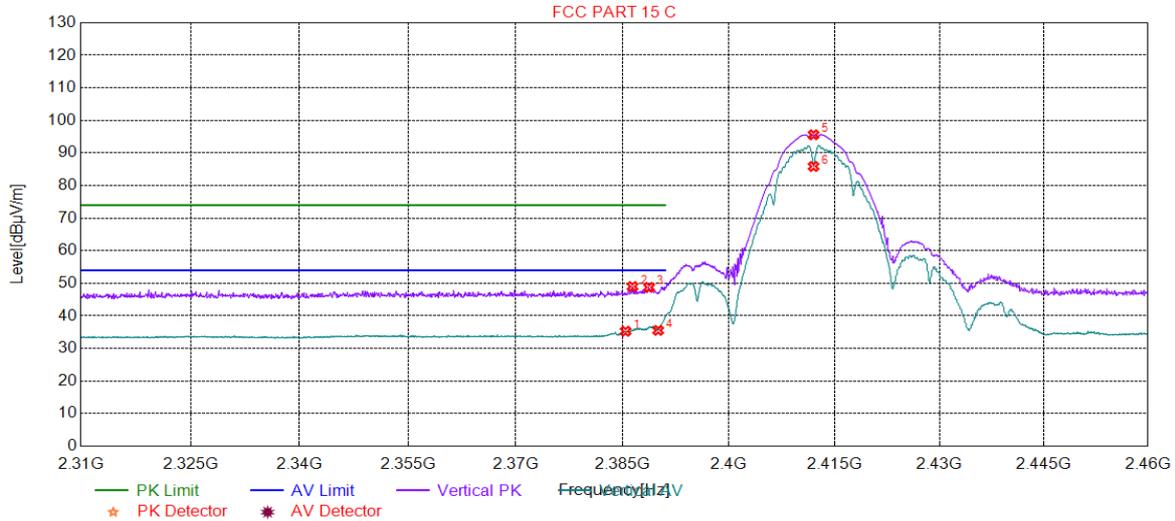


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4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.412	35.29	54.00	18.71	150	23	Vertical
2	2386.388	49.01	74.00	24.99	150	360	Vertical
3	2388.714	48.77	74.00	25.23	150	151	Vertical
4	2390.000	35.56	54.00	18.44	150	168	Vertical
5	2412.000	95.61	0.00	-95.61	150	168	Vertical
6	2412.000	85.88	0.00	-85.88	150	168	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.412	35.29	54.00	18.71	150	23	Vertical
2	2386.388	49.01	74.00	24.99	150	360	Vertical
3	2388.714	48.77	74.00	25.23	150	151	Vertical
4	2390.000	35.56	54.00	18.44	150	168	Vertical
5	2412.000	95.61	0.00	-95.61	150	168	Vertical
6	2412.000	85.88	0.00	-85.88	150	168	Vertical



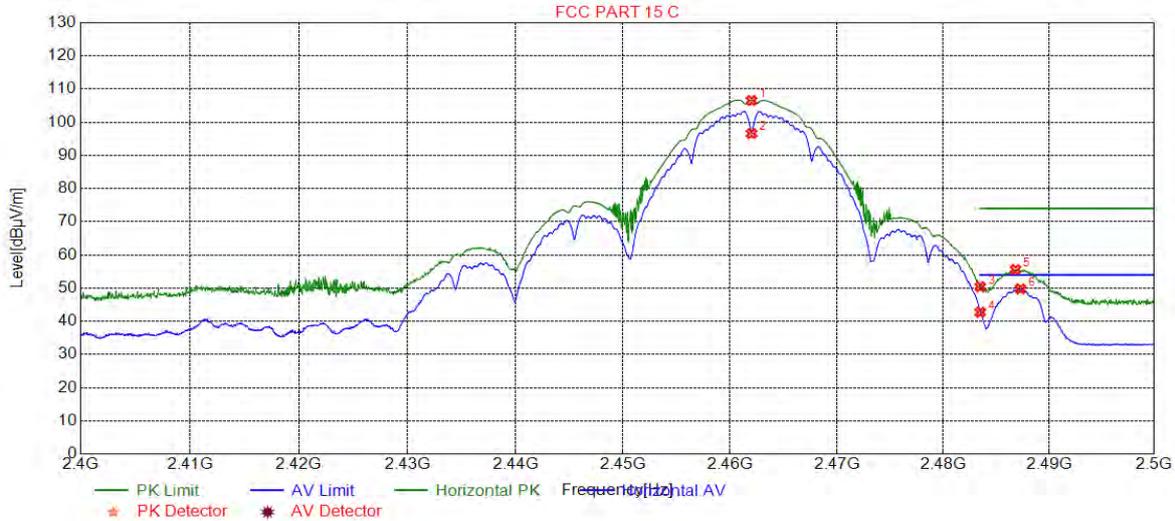
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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.56	0.00	-106.56	150	346	Horizontal
2	2462.000	96.59	0.00	-96.59	150	298	Horizontal
3	2483.500	50.42	74.00	23.58	150	282	Horizontal
4	2483.500	42.76	54.00	11.24	150	282	Horizontal
5	2486.843	55.63	74.00	18.37	150	204	Horizontal
6	2487.293	49.77	54.00	4.23	150	182	Horizontal

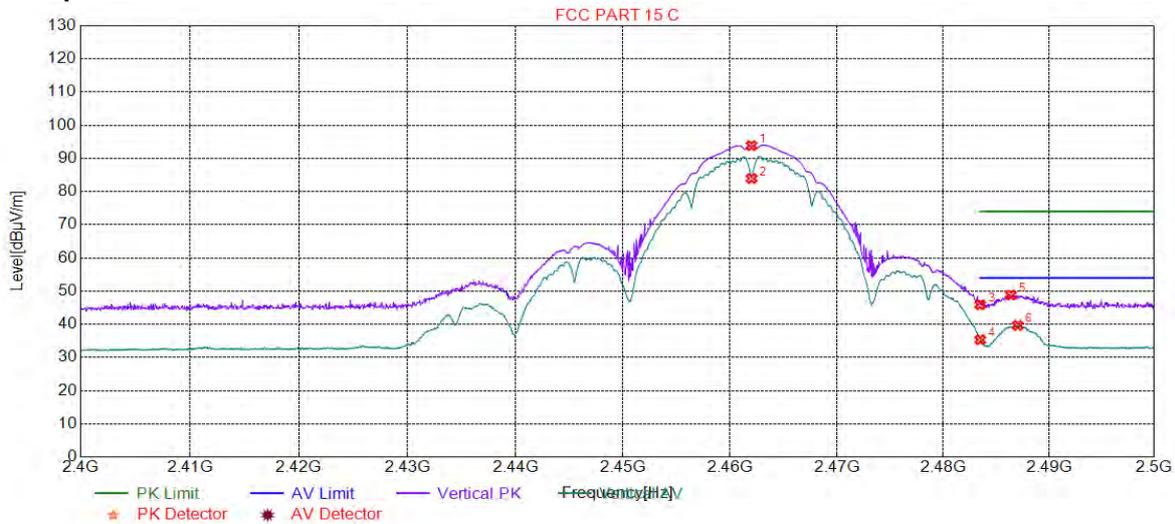
Final Data List



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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	93.89	0.00	-93.89	150	39	Vertical
2	2462.000	83.98	0.00	-83.98	150	35	Vertical
3	2483.500	45.90	74.00	28.10	150	155	Vertical
4	2483.500	35.37	54.00	18.63	150	161	Vertical
5	2486.393	48.86	74.00	25.14	150	161	Vertical
6	2487.043	39.67	54.00	14.33	150	161	Vertical

Final Data List



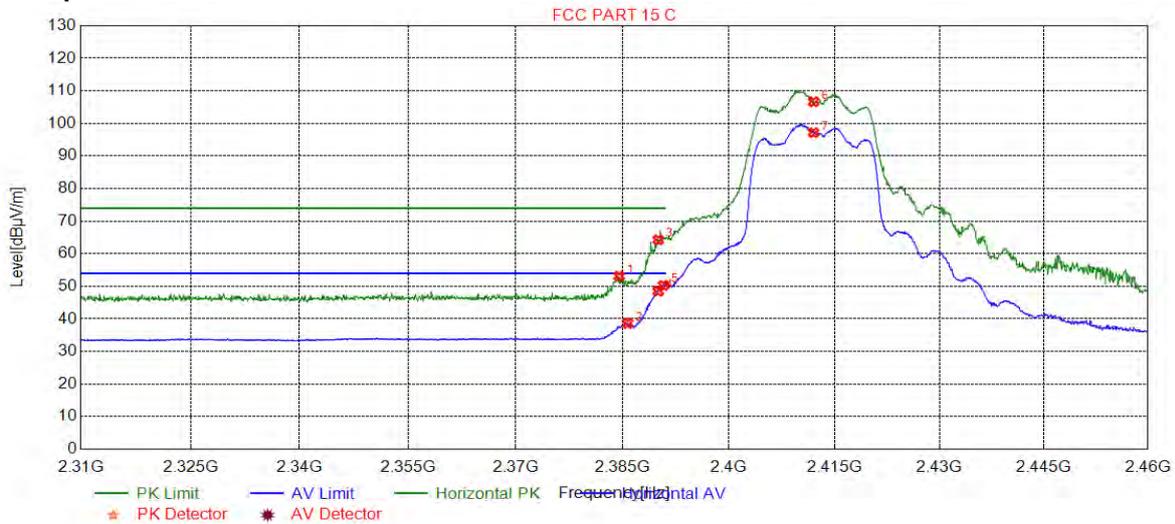
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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.512	53.12	74.00	20.88	150	192	Horizontal
2	2385.712	38.62	54.00	15.38	150	214	Horizontal
3	2390.000	64.31	74.00	9.69	150	214	Horizontal
4	2390.000	48.47	54.00	5.53	150	214	Horizontal
5	2390.740	50.28	54.00	3.72	150	192	Horizontal
6	2412.000	106.67	0.00	-106.67	150	294	Horizontal
7	2412.000	97.18	0.00	-97.18	150	294	Horizontal

Final Data List

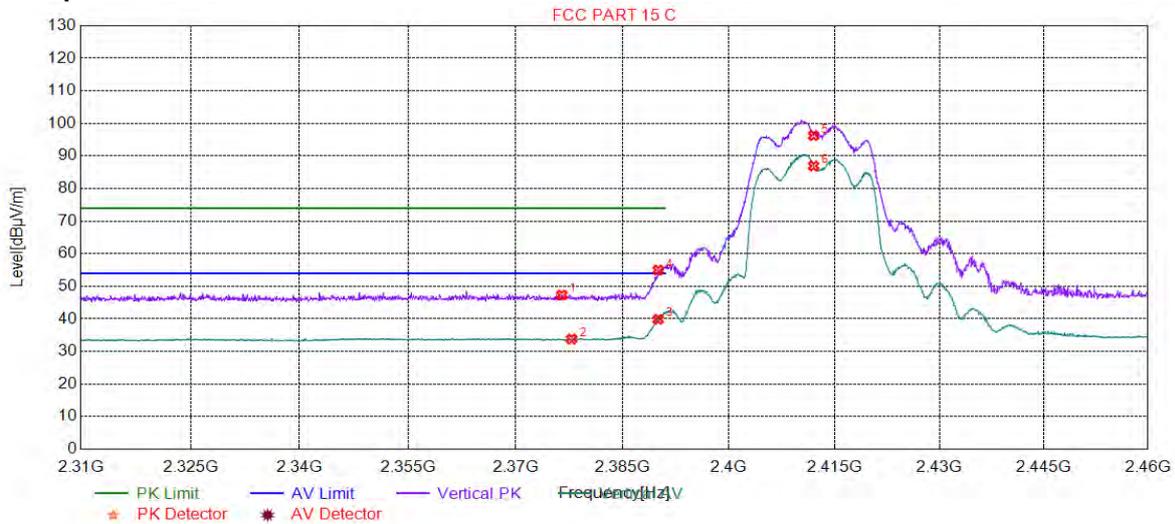


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4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.483	47.36	74.00	26.64	150	286	Vertical
2	2377.833	33.83	54.00	20.17	150	195	Vertical
3	2390.000	39.86	54.00	14.14	150	180	Vertical
4	2390.000	54.98	74.00	19.02	150	184	Vertical
5	2412.000	96.29	0.00	-96.29	150	257	Vertical
6	2412.000	86.96	0.00	-86.96	150	176	Vertical

Final Data List

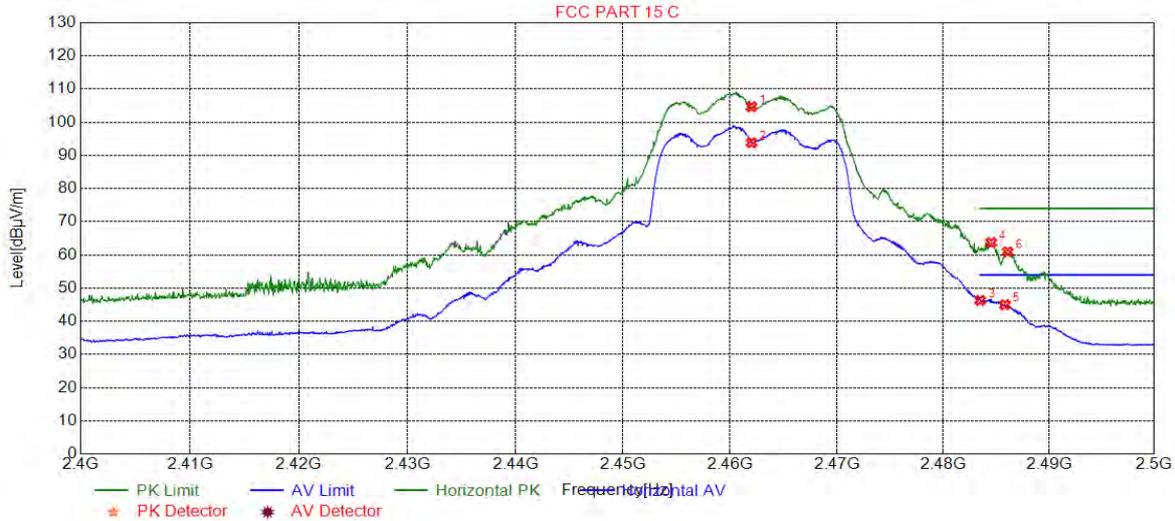


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4.10.1.7 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	104.70	0.00	-104.70	150	250	Horizontal
2	2462.000	93.85	0.00	-93.85	150	286	Horizontal
3	2483.500	46.30	54.00	7.70	150	8	Horizontal
4	2484.542	63.72	74.00	10.28	150	51	Horizontal
5	2485.842	44.99	54.00	9.01	150	58	Horizontal
6	2486.093	60.96	74.00	13.04	150	140	Horizontal

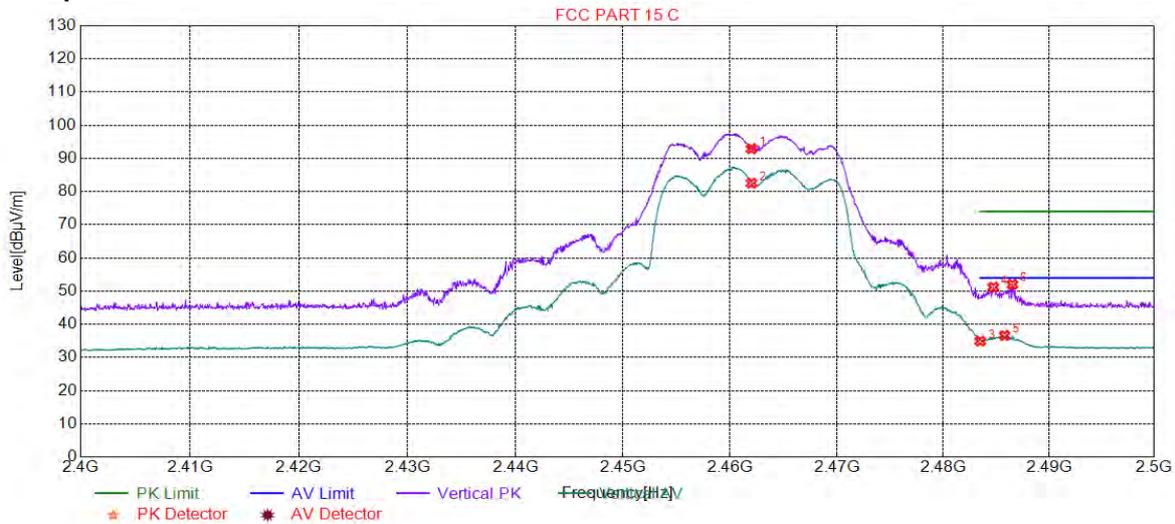
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4.10.1.8 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	92.91	0.00	-92.91	150	120	Vertical
2	2462.000	82.55	0.00	-82.55	150	120	Vertical
3	2483.500	34.96	54.00	19.04	150	174	Vertical
4	2484.742	51.21	74.00	22.79	150	233	Vertical
5	2485.792	36.65	54.00	17.35	150	174	Vertical
6	2486.543	52.06	74.00	21.94	150	174	Vertical

Final Data List

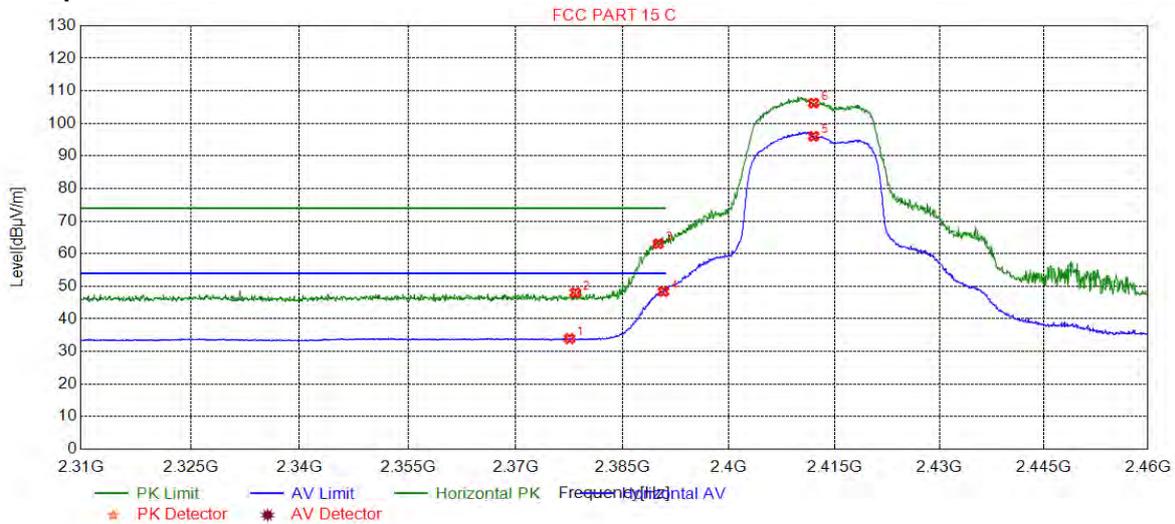


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4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.533	33.94	54.00	20.06	150	311	Horizontal
2	2378.359	48.06	74.00	25.94	150	293	Horizontal
3	2390.000	63.06	74.00	10.94	150	217	Horizontal
4	2390.740	48.40	54.00	5.60	150	221	Horizontal
5	2412.000	96.05	0.00	-96.05	150	293	Horizontal
6	2412.000	106.27	0.00	-106.27	150	300	Horizontal

Final Data List

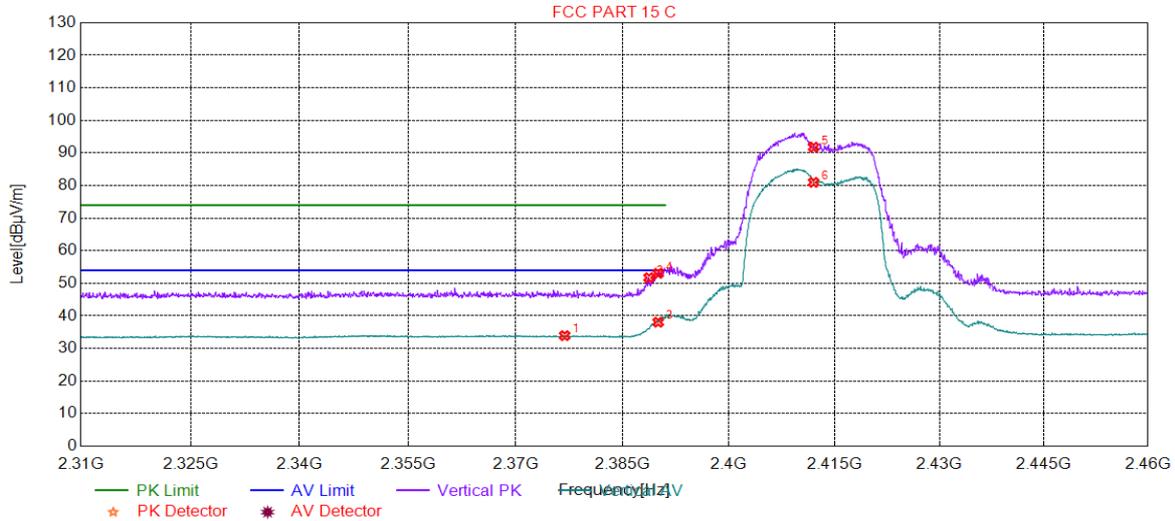


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4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.858	33.95	54.00	20.05	150	241	Vertical
2	2388.714	51.75	74.00	22.25	150	236	Vertical
3	2390.000	38.07	54.00	15.93	150	182	Vertical
4	2390.000	53.08	74.00	20.92	150	182	Vertical
5	2412.000	91.83	0.00	-91.83	150	266	Vertical
6	2412.000	81.01	0.00	-81.01	150	266	Vertical

Final Data List

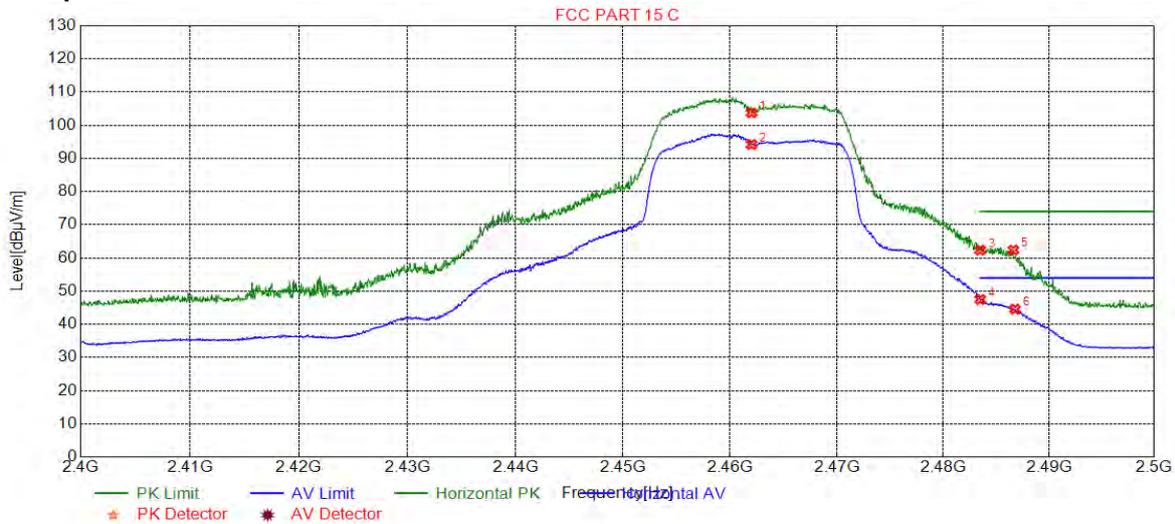


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4.10.1.11 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	103.79	0.00	-103.79	150	293	Horizontal
2	2462.000	94.21	0.00	-94.21	150	293	Horizontal
3	2483.500	62.38	74.00	11.62	150	346	Horizontal
4	2483.500	47.49	54.00	6.51	150	346	Horizontal
5	2486.643	62.41	74.00	11.59	150	52	Horizontal
6	2486.793	44.60	54.00	9.40	150	61	Horizontal

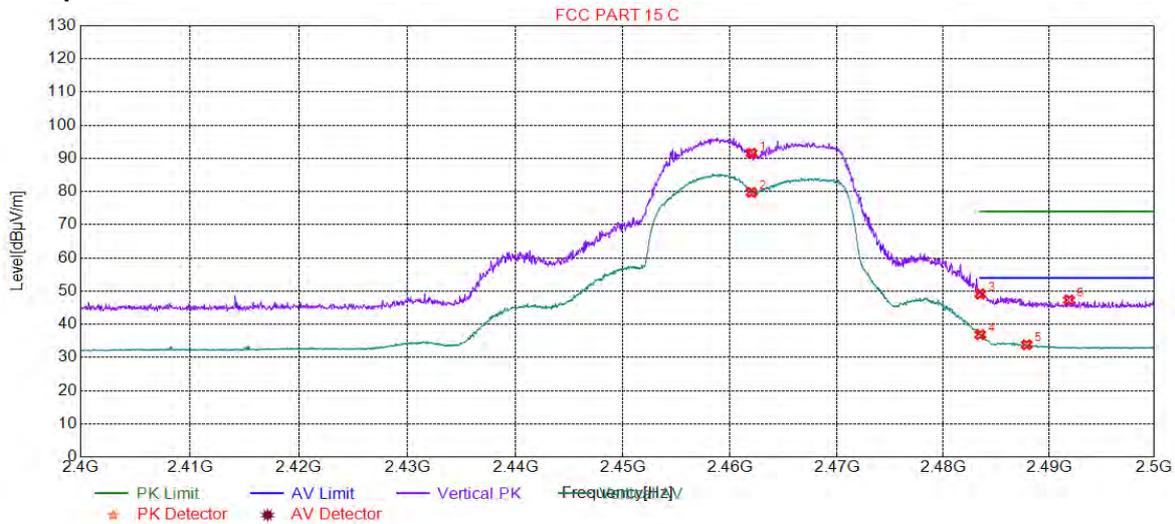
Final Data List



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4.10.1.12 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	91.58	0.00	-91.58	150	252	Vertical
2	2462.000	79.76	0.00	-79.76	150	35	Vertical
3	2483.500	49.18	74.00	24.82	150	323	Vertical
4	2483.500	36.90	54.00	17.10	150	168	Vertical
5	2487.893	33.88	54.00	20.12	150	258	Vertical
6	2491.895	47.34	74.00	26.66	150	357	Vertical

Final Data List

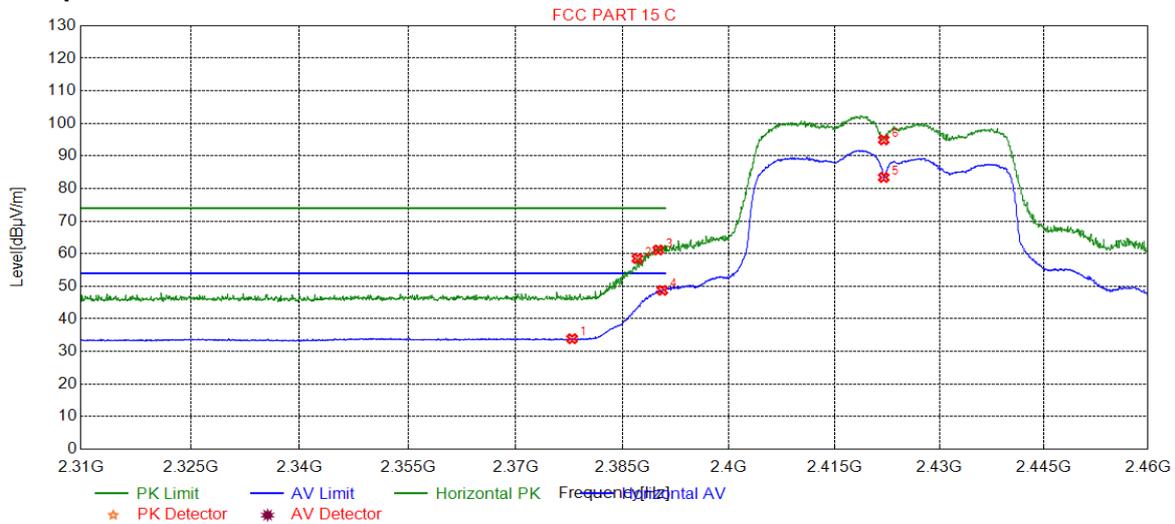


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4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.909	33.92	54.00	20.08	150	342	Horizontal
2	2387.063	58.53	74.00	15.47	150	209	Horizontal
3	2390.000	61.17	74.00	12.83	150	209	Horizontal
4	2390.590	48.76	54.00	5.24	150	213	Horizontal
5	2422.000	83.43	0.00	-83.43	150	280	Horizontal
6	2422.000	94.97	0.00	-94.97	150	342	Horizontal

Final Data List

Table content is identical to the Suspected List table above.

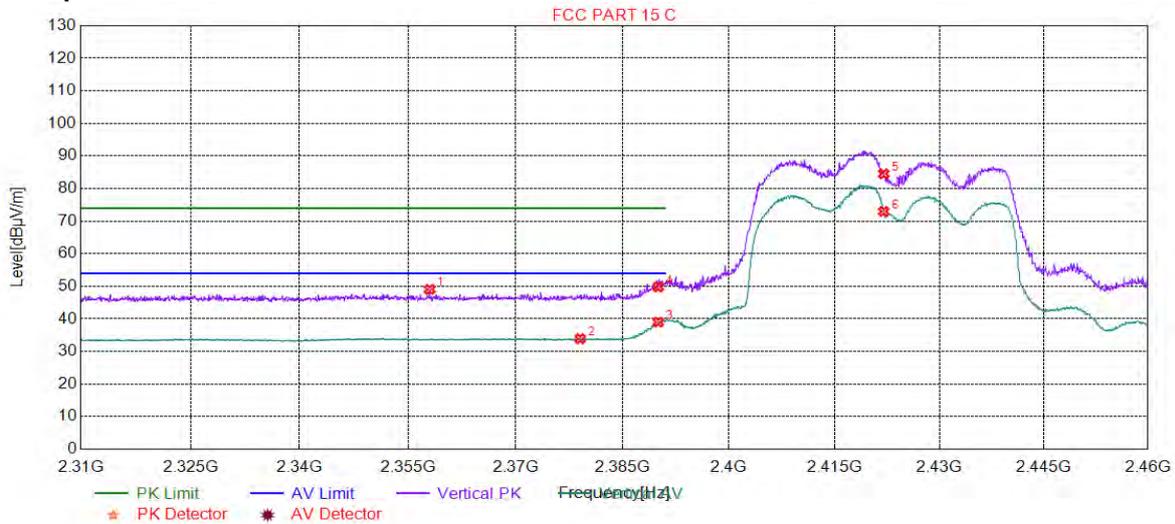


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4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2358.024	49.06	74.00	24.94	150	26	Vertical
2	2379.034	33.92	54.00	20.08	150	110	Vertical
3	2390.000	39.02	54.00	14.98	150	183	Vertical
4	2390.000	49.83	74.00	24.17	150	183	Vertical
5	2422.000	84.54	0.00	-84.54	150	183	Vertical
6	2422.000	73.00	0.00	-73.00	150	183	Vertical

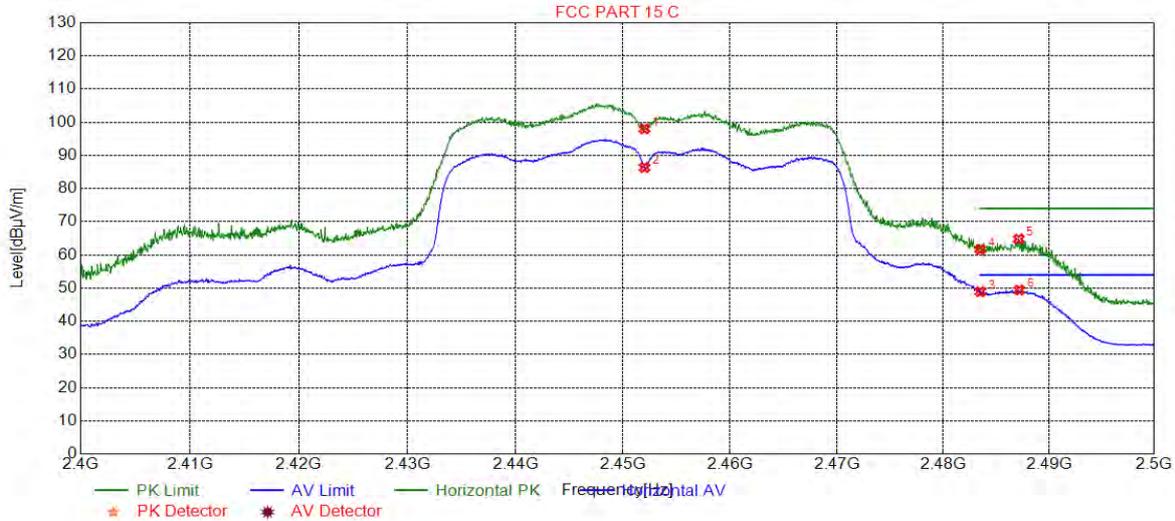
Final Data List



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4.10.1.15 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	98.02	0.00	-98.02	150	2	Horizontal
2	2452.000	86.39	0.00	-86.39	150	292	Horizontal
3	2483.500	48.96	54.00	5.04	150	4	Horizontal
4	2483.500	61.67	74.00	12.33	150	2	Horizontal
5	2487.143	64.82	74.00	9.18	150	27	Horizontal
6	2487.193	49.43	54.00	4.57	150	203	Horizontal

Final Data List

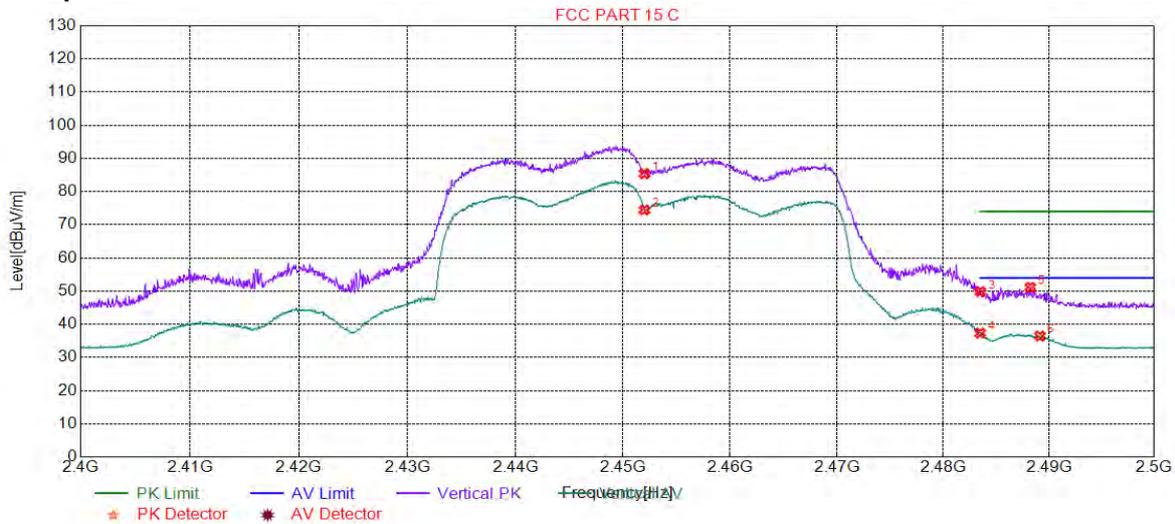


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4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	85.42	0.00	-85.42	150	168	Vertical
2	2452.000	74.49	0.00	-74.49	150	168	Vertical
3	2483.500	49.85	74.00	24.15	150	168	Vertical
4	2483.500	37.37	54.00	16.63	150	168	Vertical
5	2488.244	51.20	74.00	22.80	150	228	Vertical
6	2489.144	36.48	54.00	17.52	150	168	Vertical

Final Data List

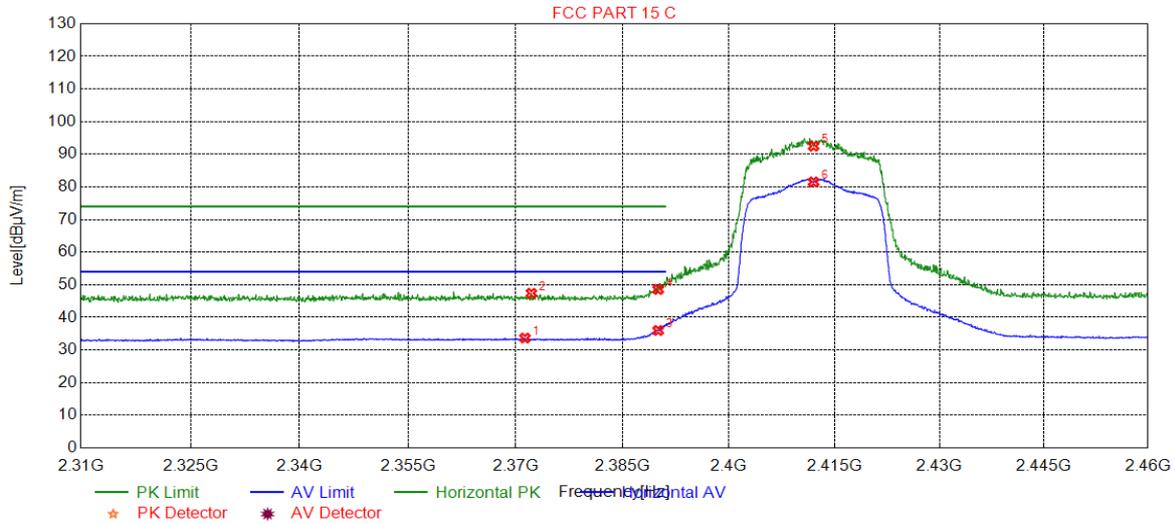


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4.10.1.17 802.11AX20_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.305	33.69	54.00	20.31	150	225	Horizontal
2	2372.206	47.42	74.00	26.58	150	102	Horizontal
3	2390.000	36.02	54.00	17.98	150	256	Horizontal
4	2390.000	48.59	74.00	25.41	150	248	Horizontal
5	2412.000	92.48	0.00	-92.48	150	244	Horizontal
6	2412.000	81.52	0.00	-81.52	150	221	Horizontal

Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.305	33.69	54.00	20.31	150	225	Horizontal
2	2372.206	47.42	74.00	26.58	150	102	Horizontal
3	2390.000	36.02	54.00	17.98	150	256	Horizontal
4	2390.000	48.59	74.00	25.41	150	248	Horizontal
5	2412.000	92.48	0.00	-92.48	150	244	Horizontal
6	2412.000	81.52	0.00	-81.52	150	221	Horizontal

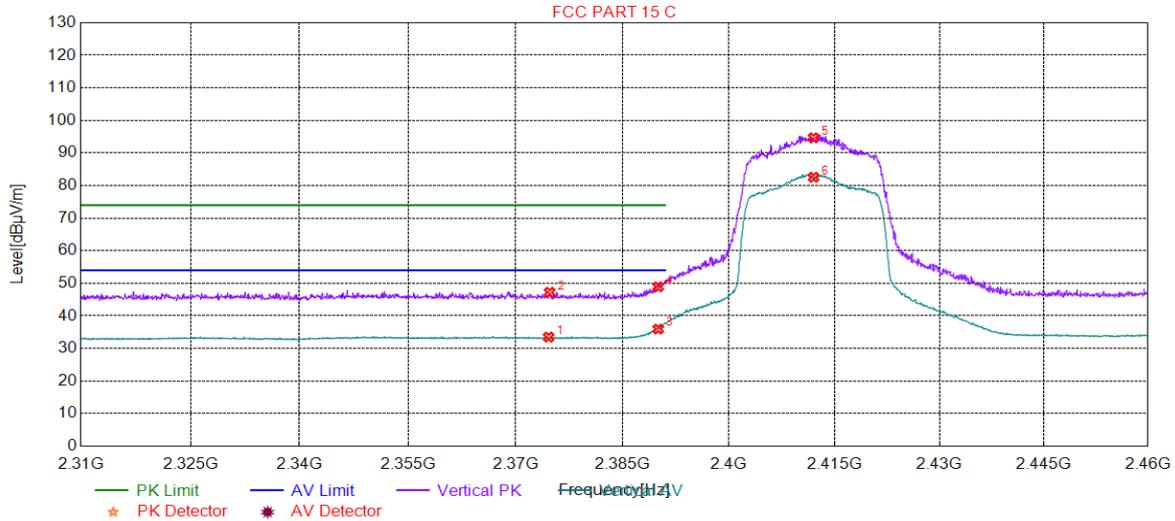


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4.10.1.18 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.607	33.51	54.00	20.49	150	126	Vertical
2	2374.757	47.25	74.00	26.75	150	98	Vertical
3	2390.000	35.97	54.00	18.03	150	223	Vertical
4	2390.000	48.93	74.00	25.07	150	257	Vertical
5	2412.000	94.69	0.00	-94.69	150	223	Vertical
6	2412.000	82.59	0.00	-82.59	150	220	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.607	33.51	54.00	20.49	150	126	Vertical
2	2374.757	47.25	74.00	26.75	150	98	Vertical
3	2390.000	35.97	54.00	18.03	150	223	Vertical
4	2390.000	48.93	74.00	25.07	150	257	Vertical
5	2412.000	94.69	0.00	-94.69	150	223	Vertical
6	2412.000	82.59	0.00	-82.59	150	220	Vertical



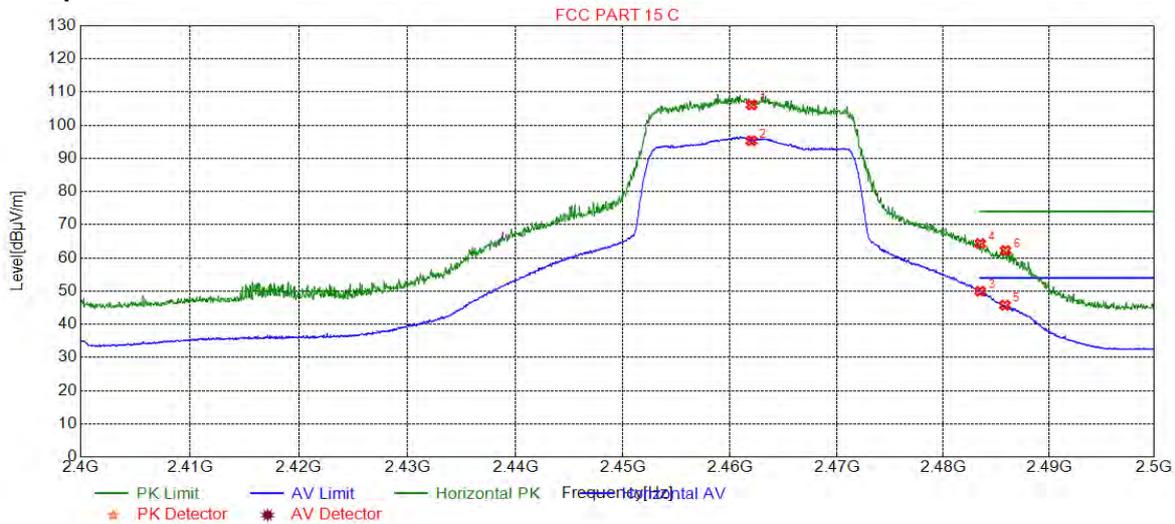
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4.10.1.19 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.16	0.00	-106.16	150	201	Horizontal
2	2462.000	95.35	0.00	-95.35	150	201	Horizontal
3	2483.500	49.97	54.00	4.03	150	198	Horizontal
4	2483.500	64.33	74.00	9.67	150	194	Horizontal
5	2485.842	45.77	54.00	8.23	150	198	Horizontal
6	2485.892	62.26	74.00	11.74	150	57	Horizontal

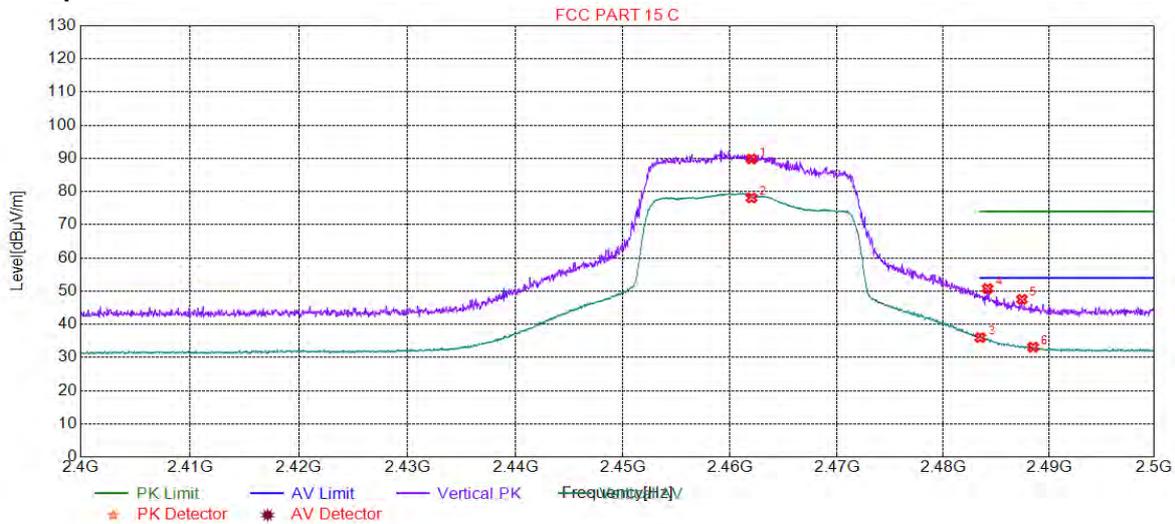
Final Data List



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4.10.1.20 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	89.84	0.00	-89.84	150	0	Vertical
2	2462.000	78.10	0.00	-78.10	150	0	Vertical
3	2483.500	36.01	54.00	17.99	150	0	Vertical
4	2484.192	50.78	74.00	23.22	150	0	Vertical
5	2487.443	47.54	74.00	26.46	150	0	Vertical
6	2488.494	33.15	54.00	20.85	150	0	Vertical

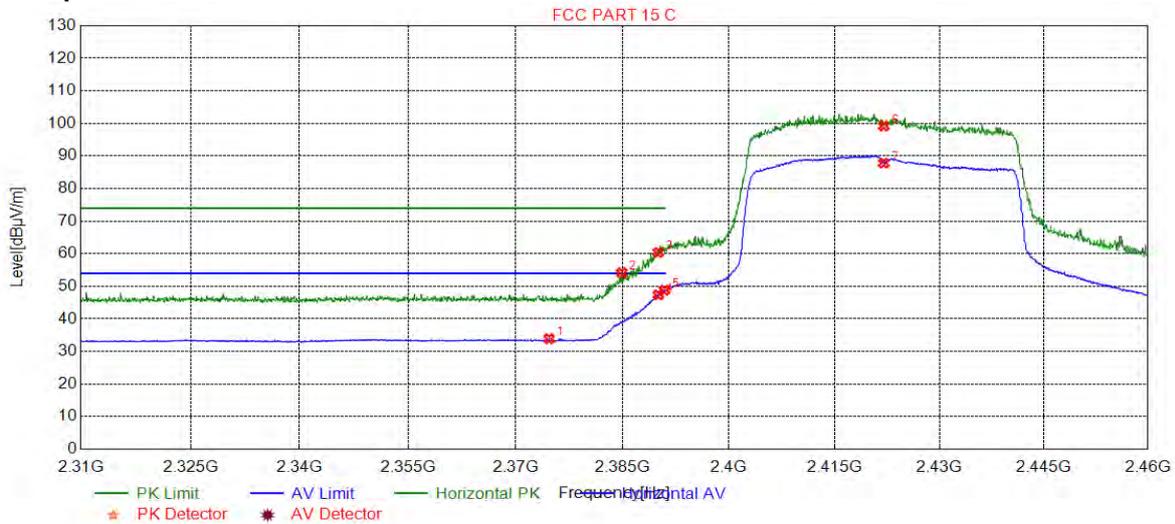
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4.10.1.21 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.682	33.88	54.00	20.12	150	44	Horizontal
2	2384.887	54.15	74.00	19.85	150	215	Horizontal
3	2390.000	60.41	74.00	13.59	150	211	Horizontal
4	2390.000	47.40	54.00	6.60	150	260	Horizontal
5	2390.890	48.80	54.00	5.20	150	260	Horizontal
6	2422.000	99.23	0.00	-99.23	150	215	Horizontal
7	2422.000	87.82	0.00	-87.82	150	207	Horizontal

Final Data List

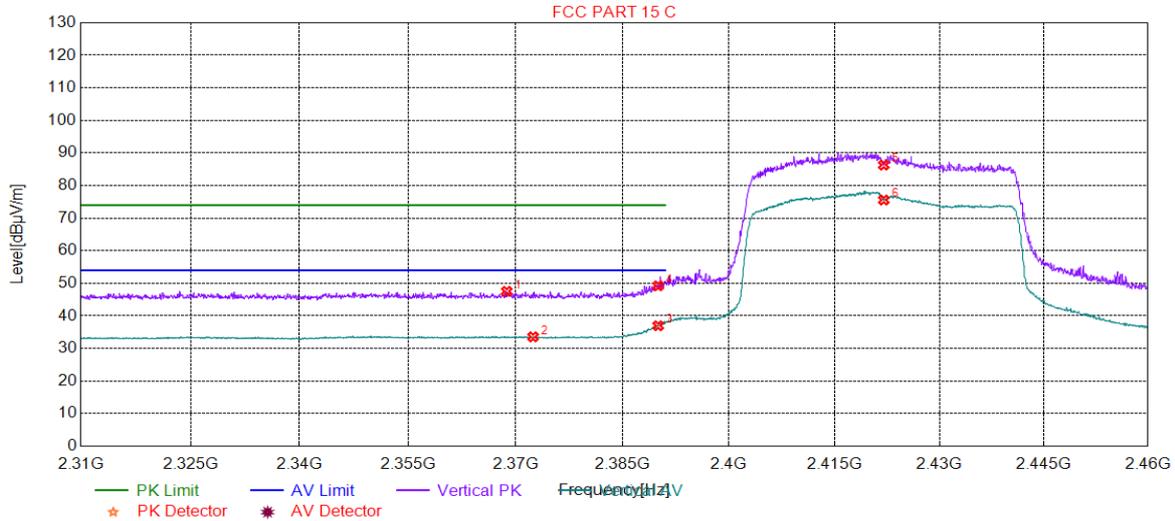
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4.10.1.22 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.754	47.55	74.00	26.45	150	316	Vertical
2	2372.431	33.58	54.00	20.42	150	0	Vertical
3	2390.000	36.98	54.00	17.02	150	170	Vertical
4	2390.000	49.24	74.00	24.76	150	173	Vertical
5	2422.000	86.31	0.00	-86.31	150	151	Vertical
6	2422.000	75.58	0.00	-75.58	150	155	Vertical

Final Data List

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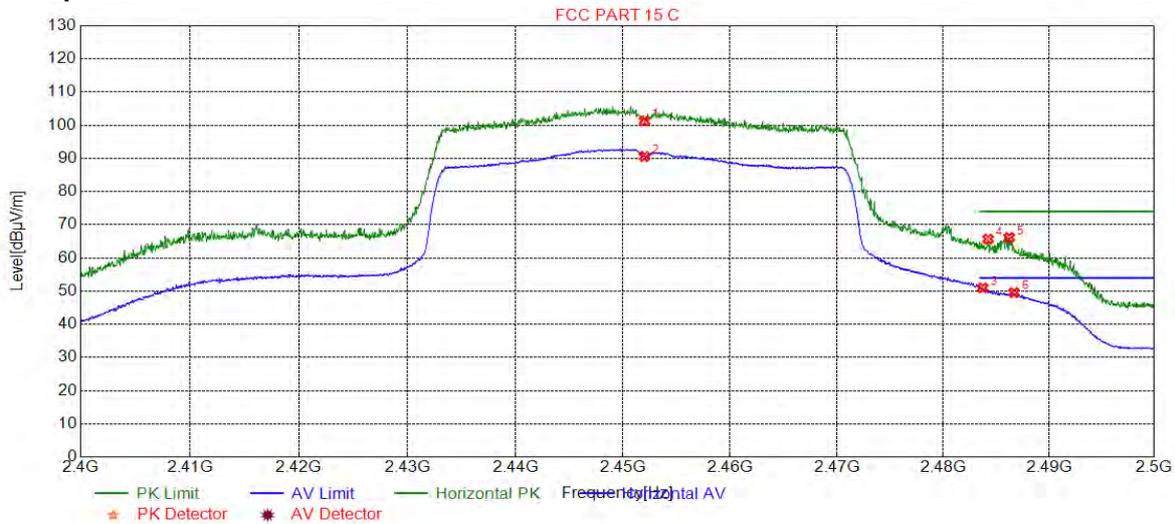


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.10.1.23 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	101.26	0.00	-101.26	200	304	Horizontal
2	2452.000	90.60	0.00	-90.60	100	214	Horizontal
3	2483.741	50.99	54.00	3.01	100	210	Horizontal
4	2484.242	65.69	74.00	8.31	100	70	Horizontal
5	2486.243	66.17	74.00	7.83	100	210	Horizontal
6	2486.693	49.57	54.00	4.43	100	210	Horizontal

Final Data List

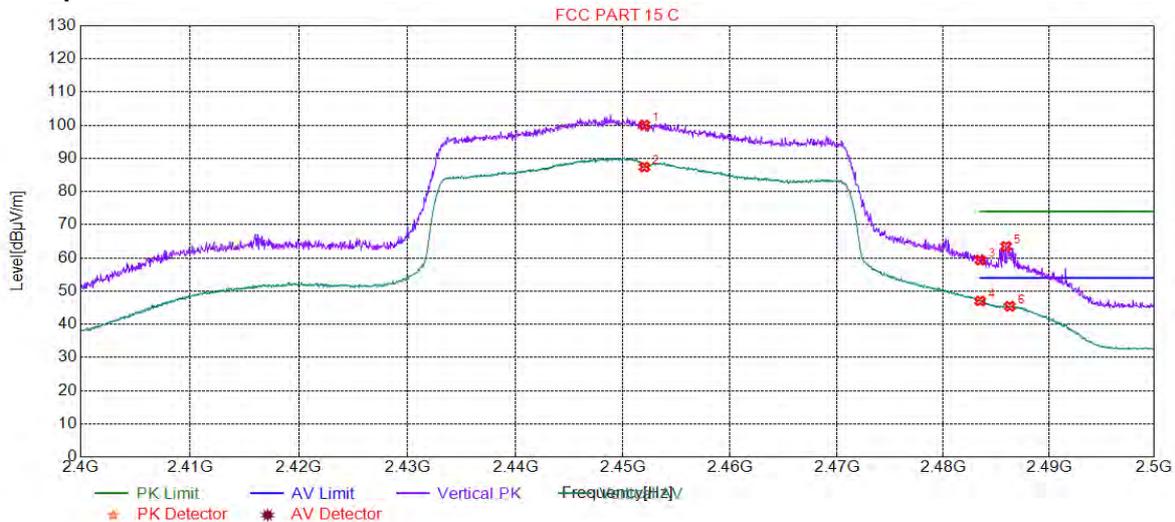


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4.10.1.24 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	100.07	0.00	-100.07	300	163	Vertical
2	2452.000	87.41	0.00	-87.41	300	159	Vertical
3	2483.500	59.35	74.00	14.65	400	157	Vertical
4	2483.500	47.06	54.00	6.94	300	163	Vertical
5	2485.943	63.52	74.00	10.48	300	163	Vertical
6	2486.293	45.45	54.00	8.55	400	161	Vertical

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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



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

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	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-2	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/9/3	2021/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. Date (yyyy mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/22	2023/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE Setup Photos.

The End



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Appendix OFDM



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DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.620	2407.950	2415.570	0.5	PASS
	Ant2	2412	8.550	2407.440	2415.990	0.5	PASS
	Ant1	2437	8.640	2432.920	2441.560	0.5	PASS
	Ant2	2437	8.160	2433.400	2441.560	0.5	PASS
	Ant1	2462	9.120	2457.440	2466.560	0.5	PASS
	Ant2	2462	9.120	2457.440	2466.560	0.5	PASS
11G-CDD	Ant1	2412	15.150	2404.410	2419.560	0.5	PASS
	Ant2	2412	15.120	2404.410	2419.530	0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant2	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant1	2462	15.510	2454.380	2469.890	0.5	PASS
	Ant2	2462	15.690	2454.200	2469.890	0.5	PASS
11N20MIMO	Ant1	2412	15.120	2404.380	2419.500	0.5	PASS
	Ant2	2412	15.090	2404.440	2419.530	0.5	PASS
	Ant1	2437	13.890	2430.670	2444.560	0.5	PASS
	Ant2	2437	14.520	2430.640	2445.160	0.5	PASS
	Ant1	2462	16.350	2453.810	2470.160	0.5	PASS
	Ant2	2462	16.590	2454.200	2470.790	0.5	PASS
11N40MIMO	Ant1	2422	32.700	2405.620	2438.320	0.5	PASS
	Ant2	2422	35.460	2404.360	2439.820	0.5	PASS
	Ant1	2437	35.160	2419.420	2454.580	0.5	PASS
	Ant2	2437	31.500	2420.620	2452.120	0.5	PASS
	Ant1	2452	31.380	2435.680	2467.060	0.5	PASS
	Ant2	2452	34.260	2434.120	2468.380	0.5	PASS
11AC40MIMO	Ant1	2422	35.280	2404.240	2439.520	0.5	PASS
	Ant2	2422	35.220	2404.420	2439.640	0.5	PASS
	Ant1	2437	32.580	2420.680	2453.260	0.5	PASS
	Ant2	2437	35.160	2419.420	2454.580	0.5	PASS
	Ant1	2452	32.700	2435.620	2468.320	0.5	PASS
	Ant2	2452	35.160	2434.420	2469.580	0.5	PASS



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TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	2412	16.620	2404.470	2421.090	0.5	PASS
	Ant2	2412	15.090	2404.440	2419.530	0.5	PASS
	Ant1	2437	15.330	2429.470	2444.800	0.5	PASS
	Ant2	2437	16.470	2429.440	2445.910	0.5	PASS
	Ant1	2462	16.320	2453.270	2469.590	0.5	PASS
	Ant2	2462	17.640	2453.270	2470.910	0.5	PASS
11AX40MIMO	Ant1	2422	35.340	2404.300	2439.640	0.5	PASS
	Ant2	2422	33.960	2404.420	2438.380	0.5	PASS
	Ant1	2437	34.920	2419.720	2454.640	0.5	PASS
	Ant2	2437	33.960	2419.420	2453.380	0.5	PASS
	Ant1	2452	36.120	2433.400	2469.520	0.5	PASS
	Ant2	2452	35.100	2434.420	2469.520	0.5	PASS



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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 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