

# FCC TEST REPORT

**Application No.:** AR/2021/50004  
**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.:** 21081111RG  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZ11RG  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/6/10  
**Date of Test:** 2021/7/6 to 2021/7/22  
**Date of Issue:** 2021/7/23

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

Authorized Signature :





Simon Ling  
Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/7/23		Original

Authorized for issue by:		
Prepared By		 _____ (Leah Chen) / Engineer
Checked By		 _____ (Daniel Wang) /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 (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:	Leah Chen, Ken Liu, Andy Yao



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### 3.3 Test Facility

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

**A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (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.:	21081111RG
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12.5
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/ax (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n/ax (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(VHE20) : OFDM/OFDMA IEEE for 802.11n(HT40) /ax(VHE40) : OFDM/OFDMA
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	PIFA
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 /ax), <input checked="" type="checkbox"/> MIMO (for 802.11 b/g/n /ax): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx
Antenna Gain:	-2.9dBi(Ant7); 0.5dBi(Ant9)

#### Operation Frequency of each channel (802.11 b/g/n HT20 ax VHE20)

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 VHE40)

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(VHE20)	Frequency for 802.11n (HT40)/ax(VHE40)
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

<b>Standard requirement:</b>	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 -2.9dBi(Ant7) and 0.5dBi(Ant9).</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>		



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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 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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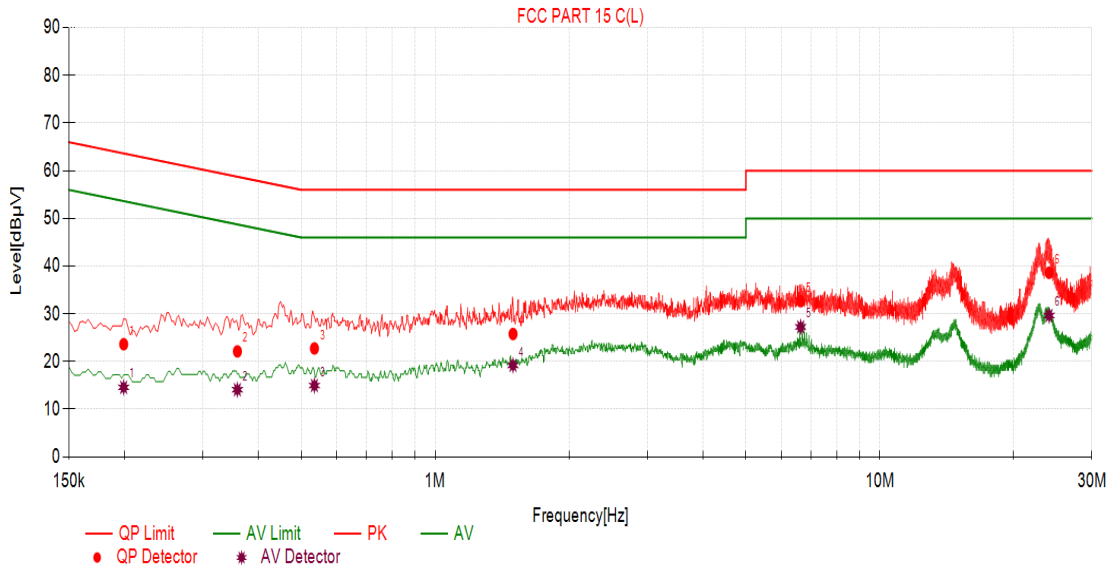
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### Measurement Data

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

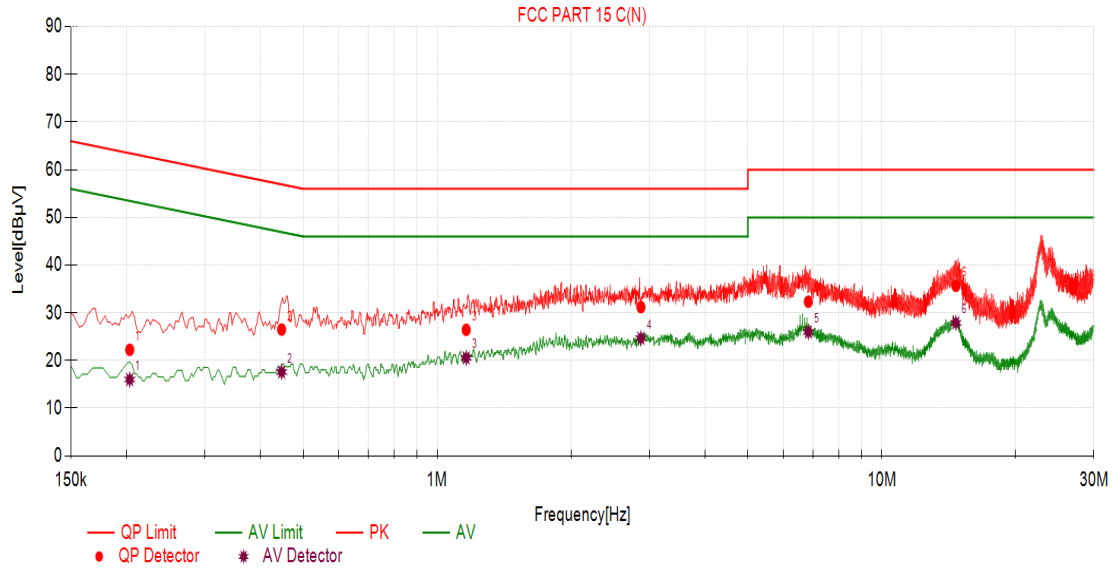
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1993	10.10	23.63	63.64	40.01	14.58	53.64	39.06	PASS
2	0.3591	10.10	22.13	58.75	36.62	14.09	48.75	34.66	PASS
3	0.5352	10.10	22.75	56.00	33.25	14.97	46.00	31.03	PASS
4	1.4968	10.10	25.78	56.00	30.22	19.20	46.00	26.80	PASS
5	6.6379	10.10	32.66	60.00	27.34	27.25	50.00	22.75	PASS
6	24.0425	10.11	38.61	60.00	21.39	29.65	50.00	20.35	PASS



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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]	Verdict
1	0.2035	10.10	22.25	63.47	41.22	16.02	53.47	37.45	PASS
2	0.4469	10.10	26.50	56.93	30.43	17.60	46.93	29.33	PASS
3	1.1625	10.10	26.44	56.00	29.56	20.56	46.00	25.44	PASS
4	2.8730	10.10	31.22	56.00	24.78	24.67	46.00	21.33	PASS
5	6.8366	10.10	32.34	60.00	27.66	25.98	50.00	24.02	PASS
6	14.6815	10.11	35.67	60.00	24.33	27.90	50.00	22.10	PASS

Remark:

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



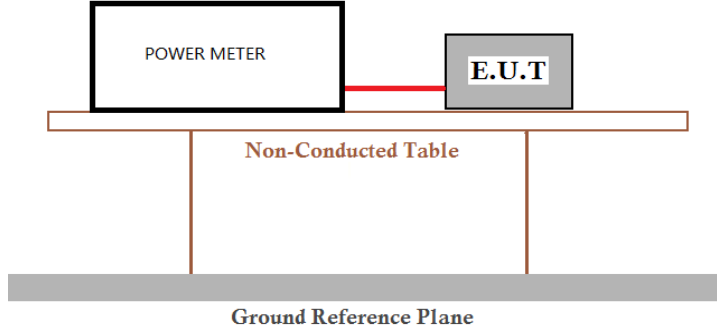
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### 4.3 Duty Cycle

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



#### 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 6 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	30dBm
Test Results:	Pass

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



### 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:	<p>The diagram shows a Spectrum Analyzer connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 6 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	≥ 500 kHz
Test Results:	Pass

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





### 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 6 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

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



### 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 6 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
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**



### 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 6 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
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**



### 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	120kHz	300kHz	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><b>Test Setup:</b></p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p><b>Test Procedure:</b></p>	<ol style="list-style-type: none"> <li>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.</li> <li>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</li> <li>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.</li> <li>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.</li> <li>Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>For average measurement: use duty cycle correction factor method per 15.35(c).</li> </ol> </li> </ol>



	<p>Duty cycle = On time/100 milliseconds  <math>On\ time = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math>            Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> 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>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: **Appendix**



### 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:			

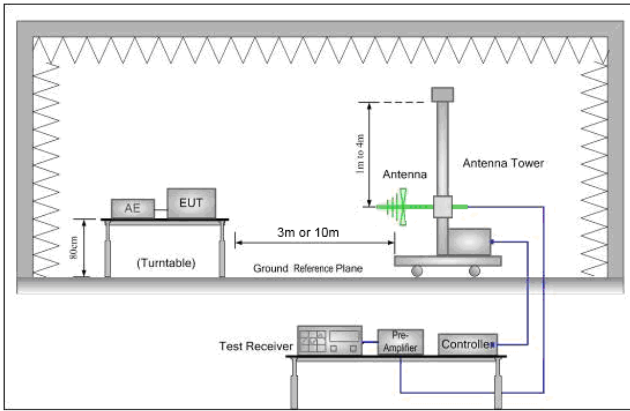


Figure 1. 30MHz to 1GHz

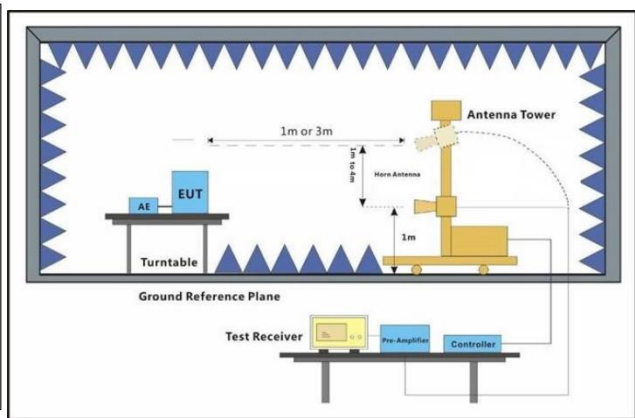


Figure 2. Above 1 GHz



<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40). Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>

The detailed test data see: **Appendix**





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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.35dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 <sup>-8</sup>
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%
7	Frquency Stability	±0.2ppm
8	Conduction Emission	± 3.0dB (150kHz to 30MHz)
9	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 Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Temperature and humidity meter	MingGao	T809	XAW01-01-04	2020/11/6	2021/11/5
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2020/10/26	2021/10/25
Spectrum Analyzer	ROHDE&SCHWARZ	FSU	100366	2021/6/8	2022/6/7
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	101146	2021/6/8	2022/6/7
temperature chamber	Votsch	VT4002	XAW01-18-01	2021/4/1	2022/3/31
Filter bank	Tonscend	JS0806-F	19C8060147	NCR	NCR
RF control unit	Tonscend	JS0806-1	NCR	NCR	NCR
Test Software	Tonscend	JS1120-3 (v2.6.77.0518)	NCR	NCR	NCR

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	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



# Appendix



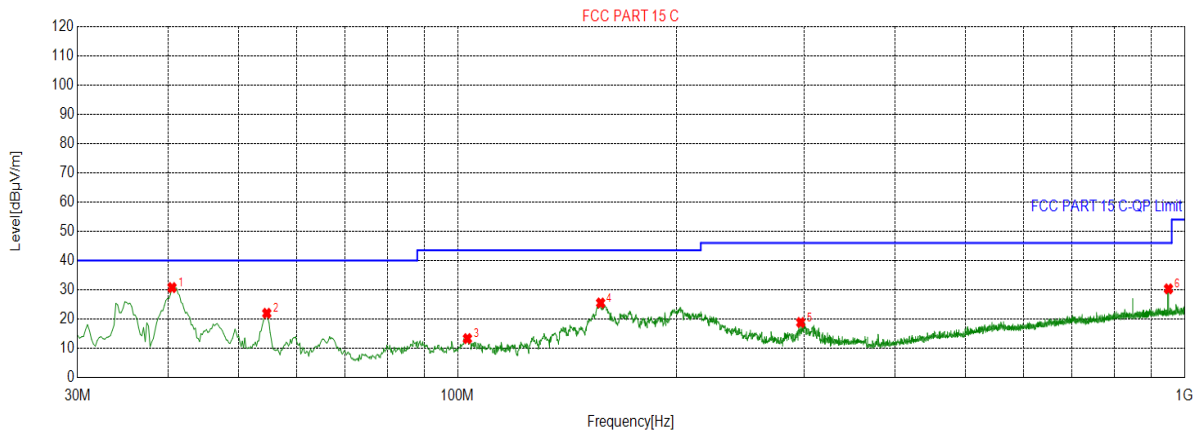
### Radiated Spurious Emissions

#### Radiated emission below 1GHz

MIMO(Worst case):

#### Charge + Transmitting

#### Test Graph



• QP Detector

#### Suspected List

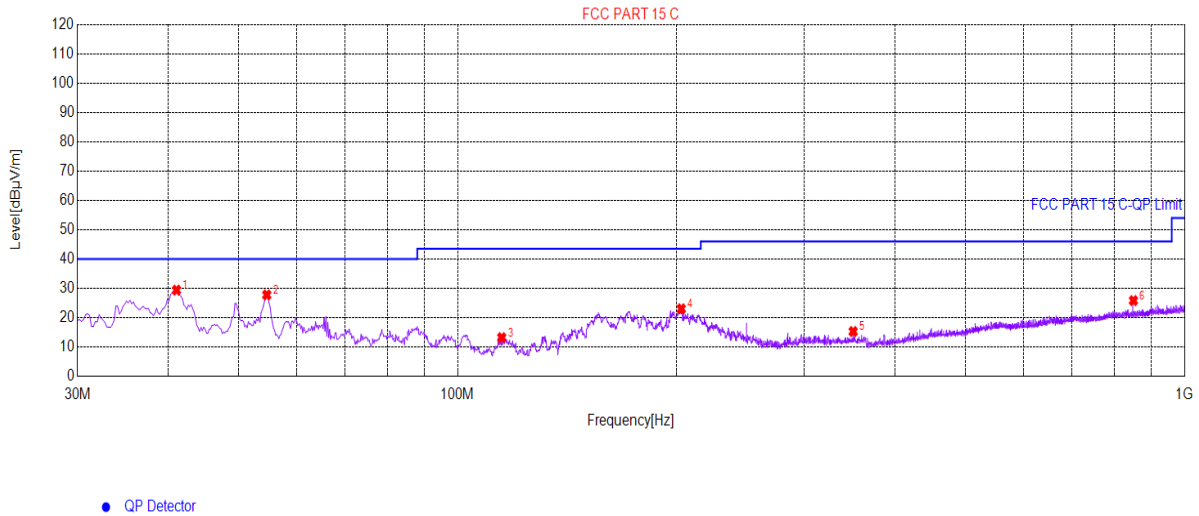
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4781	30.74	-22.26	40.00	9.26	274	35	Horizontal
2	54.6429	21.96	-22.05	40.00	18.04	256	264	Horizontal
3	103.152	13.32	-22.91	43.50	30.18	175	143	Horizontal
4	157.289	25.49	-25.62	43.50	18.01	284	250	Horizontal
5	296.415	18.82	-19.43	46.00	27.18	241	53	Horizontal
6	949.938	30.31	-7.23	46.00	15.69	165	144	Horizontal

#### Final Data List



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### Test Graph



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.0602	29.39	-22.15	40.00	10.61	174	232	Vertical
2	54.6429	27.76	-22.05	40.00	12.24	184	10	Vertical
3	114.989	13.19	-23.80	43.50	30.31	175	16	Vertical
4	203.082	23.02	-22.28	43.50	20.48	189	308	Vertical
5	349.970	15.28	-17.73	46.00	30.72	214	98	Vertical
6	850.202	25.83	-8.54	46.00	20.17	241	219	Vertical

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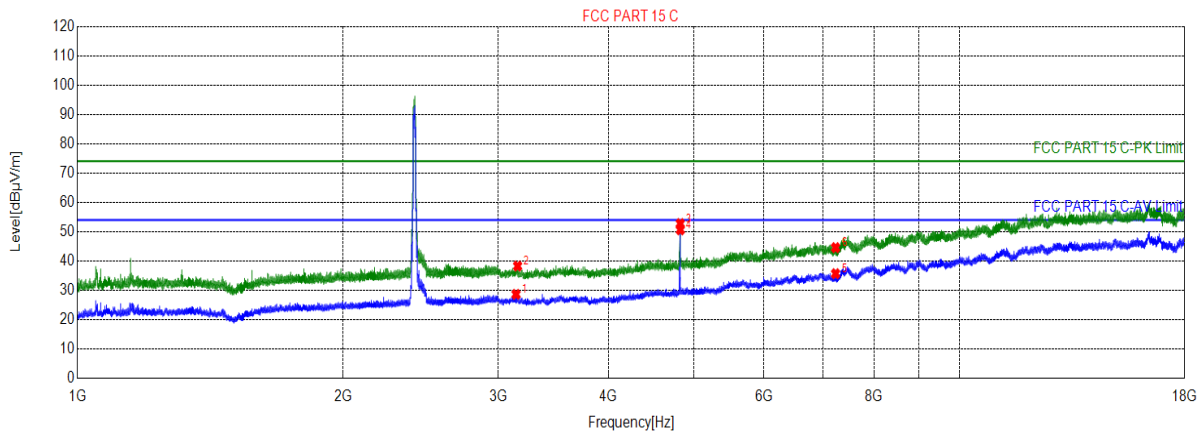
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### Transmitter emission above 1GHz

MIMO(Worst case):

802.11b\_Channel 1

### Test Graph



★ PK Detector    ★ AV Detector

### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3142.20	28.63	-23.33	54.00	25.37	263	333	Horizontal
2	3155.40	38.26	-23.29	74.00	35.74	272	262	Horizontal
3	4824.07	52.75	-18.20	74.00	21.25	215	74	Horizontal
4	4824.67	50.62	-18.20	54.00	3.38	152	74	Horizontal
5	7236.00	35.67	-10.83	54.00	18.33	175	45	Horizontal
6	7236.00	44.55	-10.83	74.00	29.45	126	348	Horizontal

### Final Data List



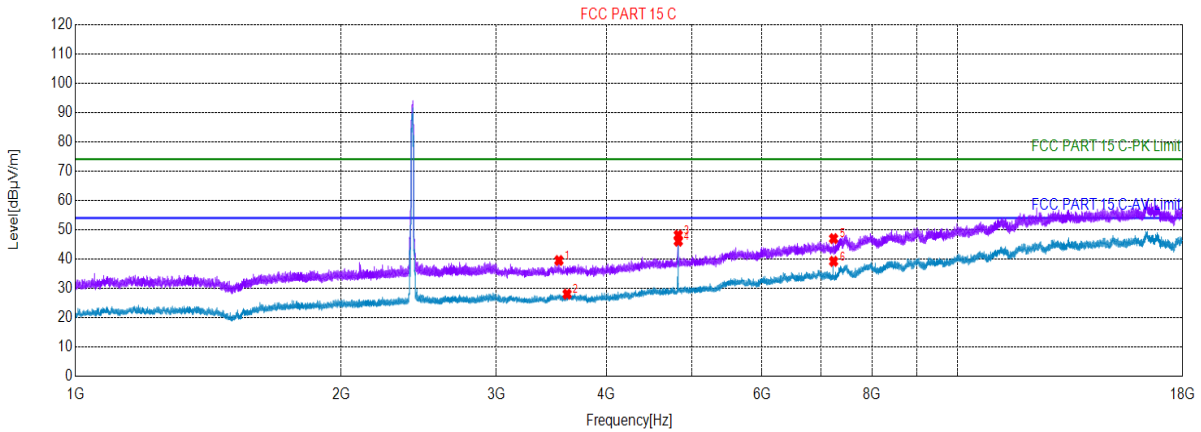
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### 802.11b\_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3532.82	39.49	-22.63	74.00	34.51	263	130	Vertical
2	3609.02	28.03	-22.60	54.00	25.97	245	72	Vertical
3	4824.00	48.13	-18.20	74.00	25.87	212	13	Vertical
4	4824.67	46.07	-18.20	54.00	7.93	296	13	Vertical
5	7236.00	46.95	-10.83	74.00	27.05	275	130	Vertical
6	7236.00	39.19	-10.83	54.00	14.81	211	144	Vertical

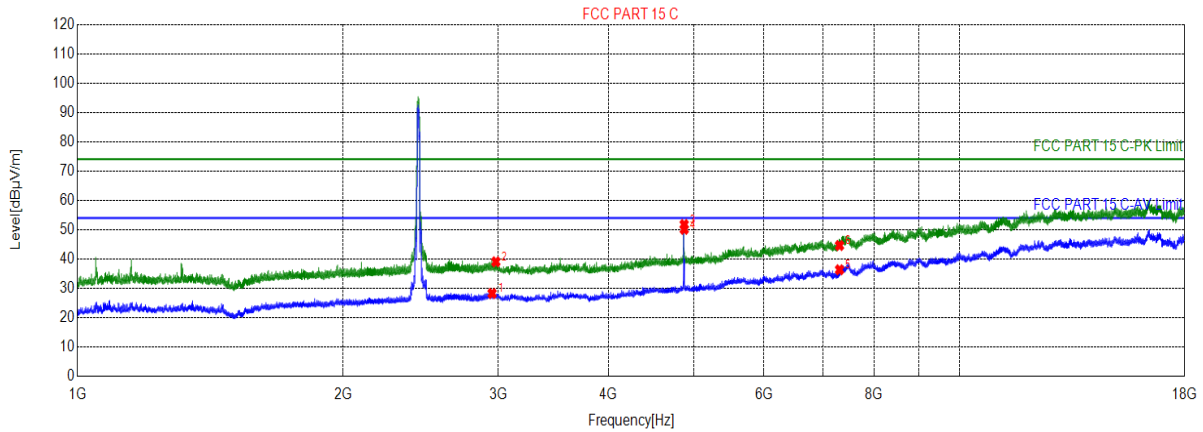
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### 802.11b\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.99	28.26	7.97	54.00	25.74	233	212	Horizontal
2	2980.99	39.05	7.90	74.00	34.95	254	59	Horizontal
3	4873.87	51.75	-18.02	74.00	22.25	282	74	Horizontal
4	4874.47	50.12	-18.02	54.00	3.88	106	74	Horizontal
5	7311.00	36.33	-10.82	54.00	17.67	222	118	Horizontal
6	7311.00	44.60	-10.82	74.00	29.40	136	101	Horizontal

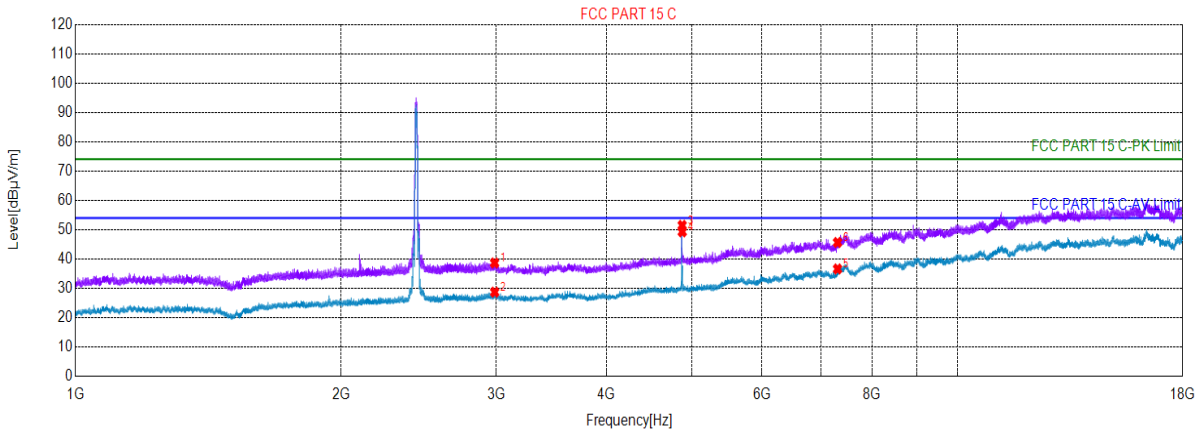
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### 802.11b\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.69	38.64	7.85	74.00	35.36	172	185	Vertical
2	2987.39	28.70	7.85	54.00	25.30	263	59	Vertical
3	4873.87	51.47	-18.02	74.00	22.53	206	189	Vertical
4	4874.47	49.26	-18.02	54.00	4.74	218	189	Vertical
5	7311.00	36.61	-10.82	54.00	17.39	306	246	Vertical
6	7311.00	45.64	-10.82	74.00	28.36	100	320	Vertical

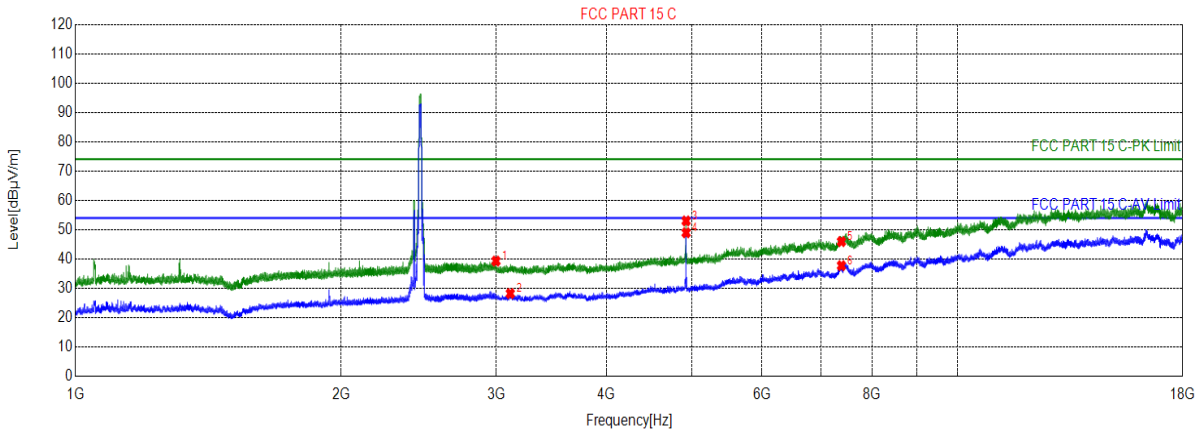
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### 802.11b\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.49	39.29	8.05	74.00	34.71	254	10	Horizontal
2	3111.60	28.22	-23.84	54.00	25.78	261	103	Horizontal
3	4923.67	52.98	-17.71	74.00	21.02	152	74	Horizontal
4	4924.27	48.94	-17.70	54.00	5.06	175	88	Horizontal
5	7386.00	45.93	-9.56	74.00	28.07	169	290	Horizontal
6	7386.00	37.74	-9.56	54.00	16.26	138	334	Horizontal

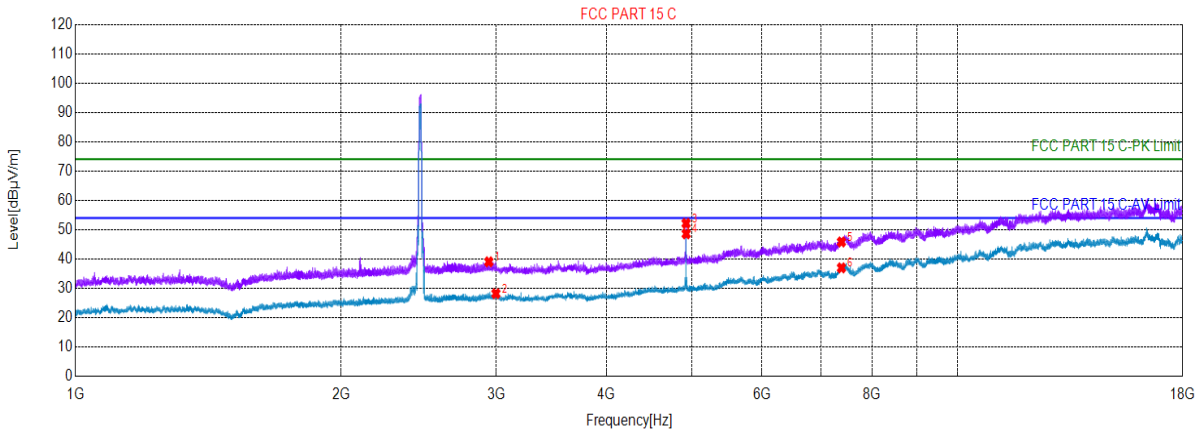
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### 802.11b\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.29	39.04	7.95	74.00	34.96	263	314	Vertical
2	2997.09	28.19	8.04	54.00	25.81	242	350	Vertical
3	4923.67	52.15	-17.71	74.00	21.85	281	189	Vertical
4	4924.87	48.58	-17.70	54.00	5.42	242	203	Vertical
5	7386.00	45.81	-9.56	74.00	28.19	277	117	Vertical
6	7386.00	36.97	-9.56	54.00	17.03	269	0	Vertical

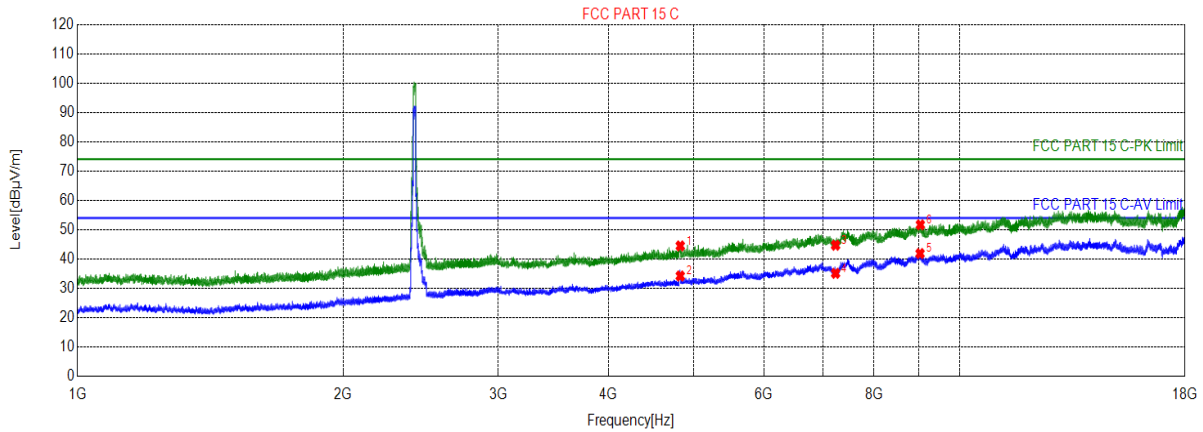
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**802.11g\_Channel 1**

**Test Graph**



★ PK Detector    \* AV Detector

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	44.47	-15.31	74.00	29.53	174	46	Horizontal
2	4824.00	34.21	-15.31	54.00	19.79	185	60	Horizontal
3	7236.00	44.70	-8.82	74.00	29.30	269	291	Horizontal
4	7236.00	35.11	-8.82	54.00	18.89	289	46	Horizontal
5	9021.24	41.86	-3.75	54.00	12.14	184	202	Horizontal
6	9029.04	51.66	-3.78	74.00	22.34	124	246	Horizontal

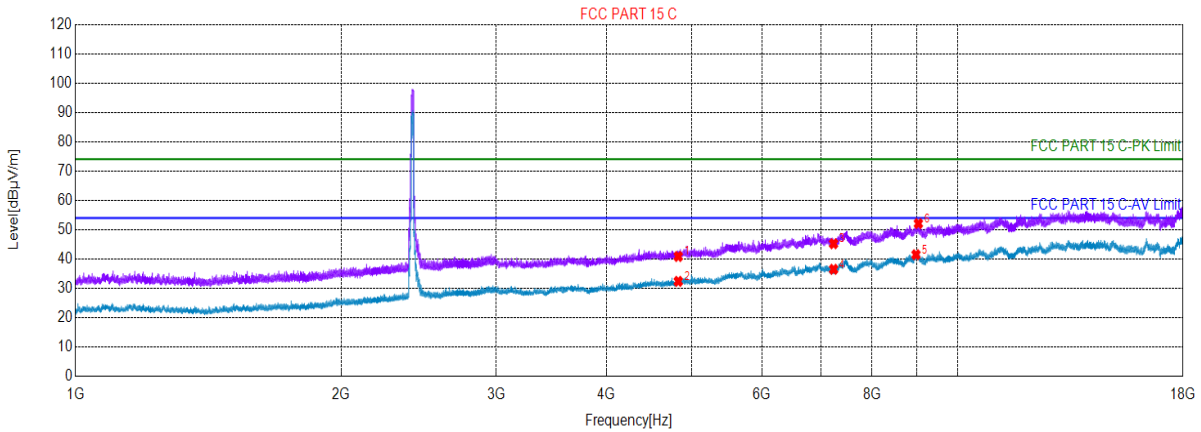
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### 802.11g\_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	40.87	-15.31	74.00	33.13	174	3	Vertical
2	4824.00	32.38	-15.31	54.00	21.62	185	189	Vertical
3	7236.00	45.21	-8.82	74.00	28.79	258	304	Vertical
4	7236.00	36.49	-8.82	54.00	17.51	296	160	Vertical
5	8972.03	41.47	-3.93	54.00	12.53	213	30	Vertical
6	9029.04	52.09	-3.78	74.00	21.91	261	218	Vertical

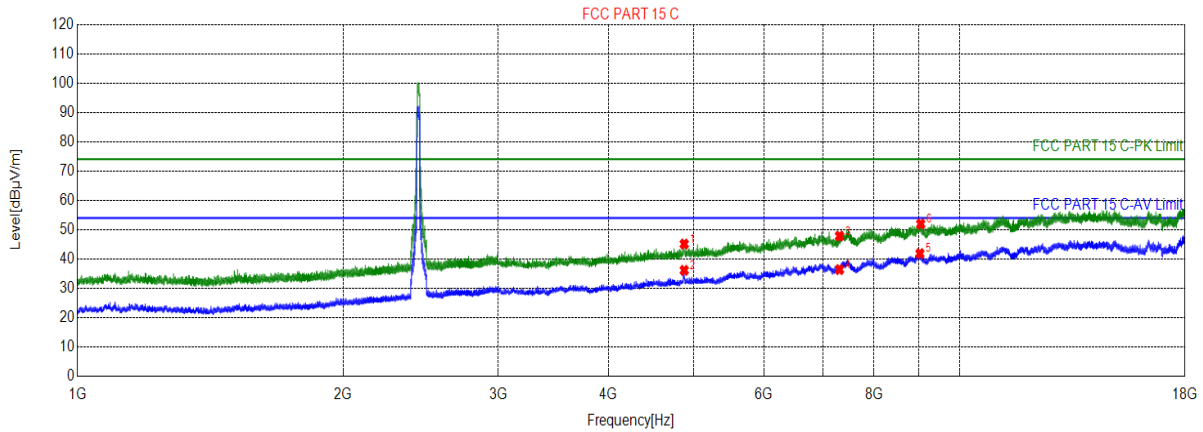
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### 802.11g\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	45.10	-15.09	74.00	28.90	171	305	Horizontal
2	4874.00	36.14	-15.09	54.00	17.86	185	43	Horizontal
3	7311.00	47.82	-8.93	74.00	26.18	199	147	Horizontal
4	7311.00	36.40	-8.93	54.00	17.60	213	320	Horizontal
5	9018.24	41.86	-3.74	54.00	12.14	262	162	Horizontal
6	9036.84	51.94	-3.81	74.00	22.06	174	277	Horizontal

#### Final Data List

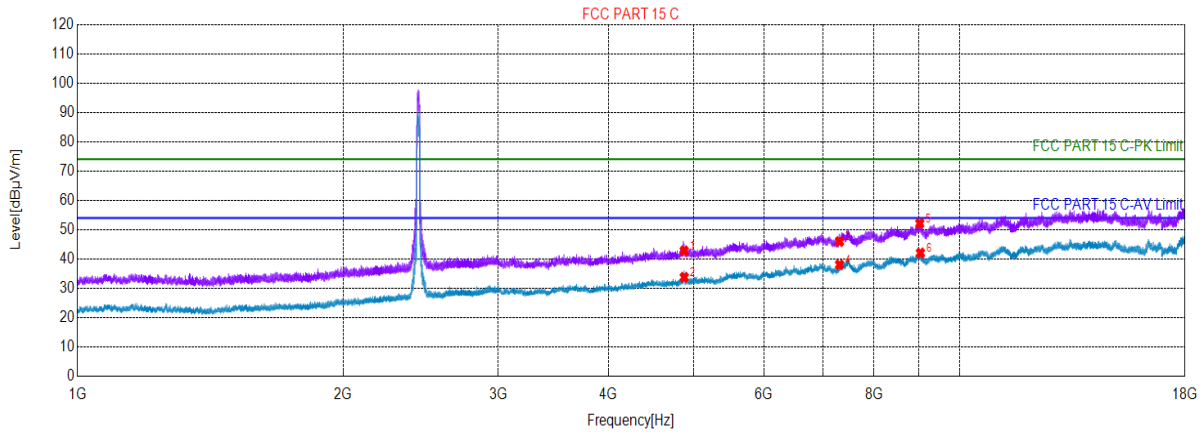


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### 802.11g\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	42.81	-15.09	74.00	31.19	174	29	Vertical
2	4874.00	33.76	-15.09	54.00	20.24	188	203	Vertical
3	7311.00	45.96	-8.93	74.00	28.04	296	262	Vertical
4	7311.00	38.05	-8.93	54.00	15.95	213	277	Vertical
5	9015.24	52.12	-3.72	74.00	21.88	261	59	Vertical
6	9029.64	42.05	-3.78	54.00	11.95	274	203	Vertical

#### Final Data List



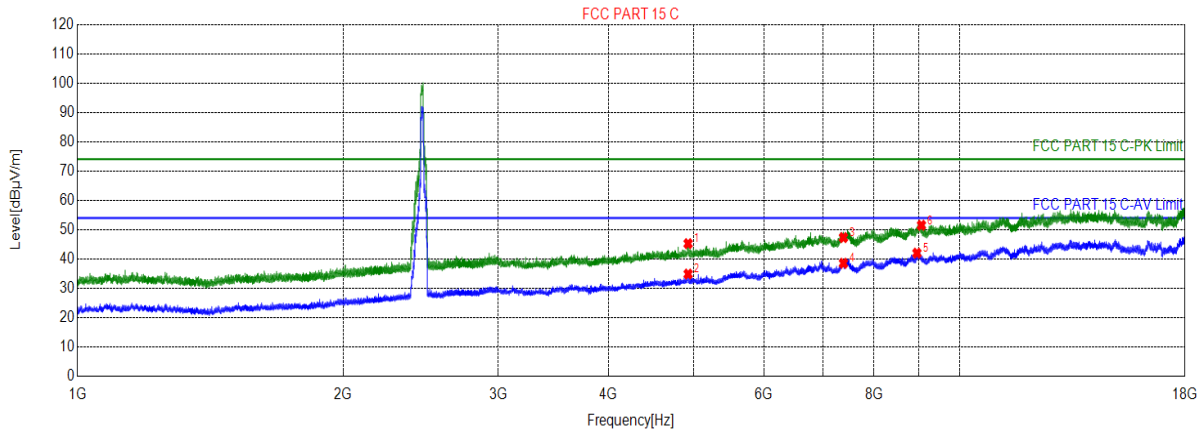
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### 802.11g\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	45.25	-14.74	74.00	28.75	174	95	Horizontal
2	4924.00	34.87	-14.74	54.00	19.13	185	95	Horizontal
3	7386.00	47.32	-7.78	74.00	26.68	196	217	Horizontal
4	7386.00	38.54	-7.78	54.00	15.46	321	302	Horizontal
5	8948.03	41.99	-4.18	54.00	12.01	261	95	Horizontal
6	9054.24	51.51	-3.91	74.00	22.49	284	215	Horizontal

#### Final Data List

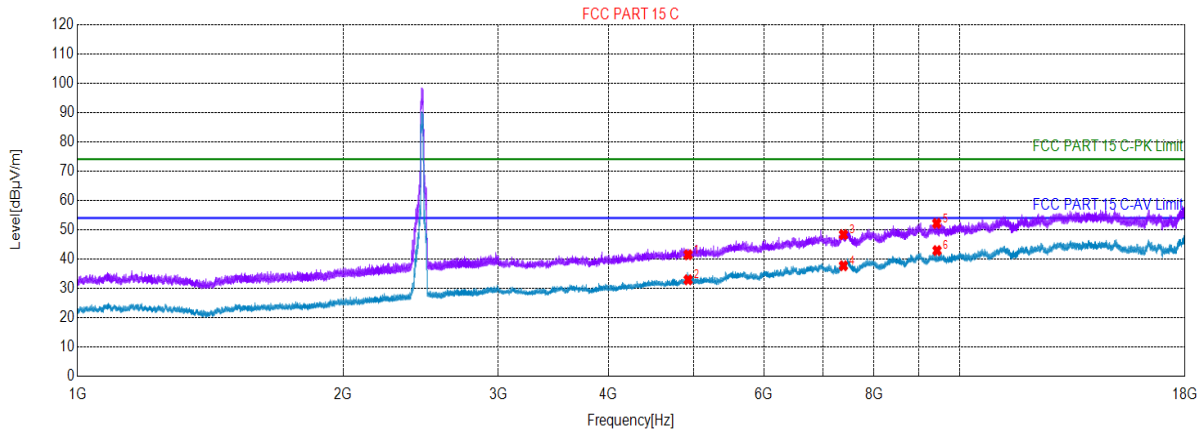


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### 802.11g\_Channel 11

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	41.45	-14.74	74.00	32.55	185	232	Vertical
2	4924.00	32.91	-14.74	54.00	21.09	196	187	Vertical
3	7386.00	48.31	-7.78	74.00	25.69	213	2	Vertical
4	7386.00	37.69	-7.78	54.00	16.31	226	30	Vertical
5	9422.65	52.14	-3.24	74.00	21.86	274	261	Vertical
6	9429.85	42.88	-3.24	54.00	11.12	185	74	Vertical

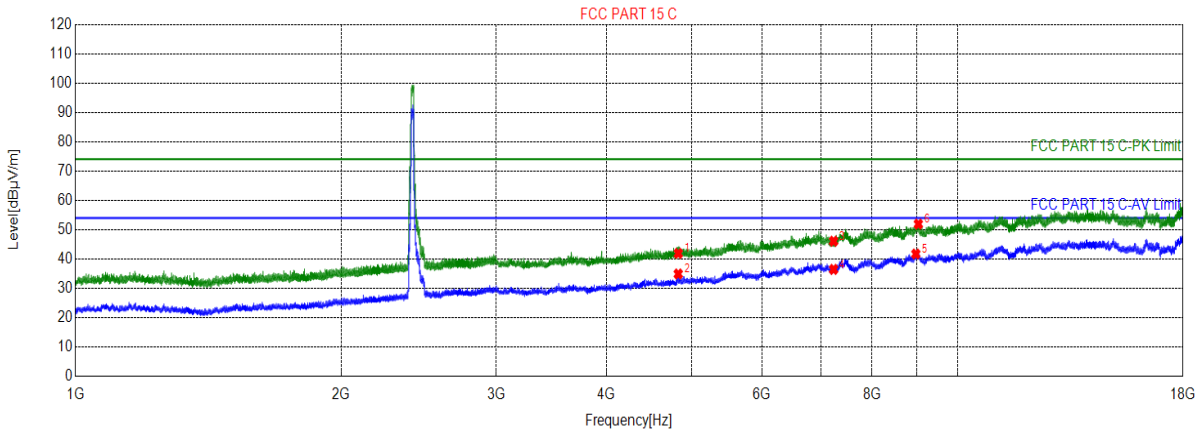
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### 802.11n20\_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	41.90	-15.31	74.00	32.10	185	49	Horizontal
2	4824.00	34.90	-15.31	54.00	19.10	199	49	Horizontal
3	7236.00	46.07	-8.82	74.00	27.93	213	233	Horizontal
4	7236.00	36.46	-8.82	54.00	17.54	291	334	Horizontal
5	8969.03	41.71	-3.96	54.00	12.29	215	192	Horizontal
6	9028.44	51.91	-3.78	74.00	22.09	194	334	Horizontal

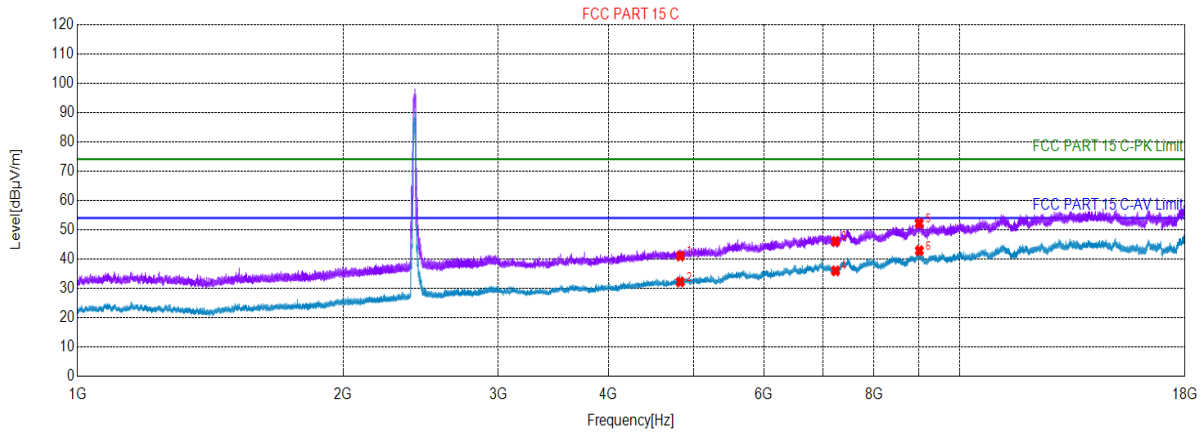
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### 802.11n20\_Channel 1

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	41.02	-15.31	74.00	32.98	174	192	Vertical
2	4824.00	32.16	-15.31	54.00	21.84	185	291	Vertical
3	7236.00	45.99	-8.82	74.00	28.01	196	174	Vertical
4	7236.00	35.95	-8.82	54.00	18.05	231	48	Vertical
5	9000.24	52.13	-3.66	74.00	21.87	226	164	Vertical
6	9006.24	42.85	-3.69	54.00	11.15	174	174	Vertical

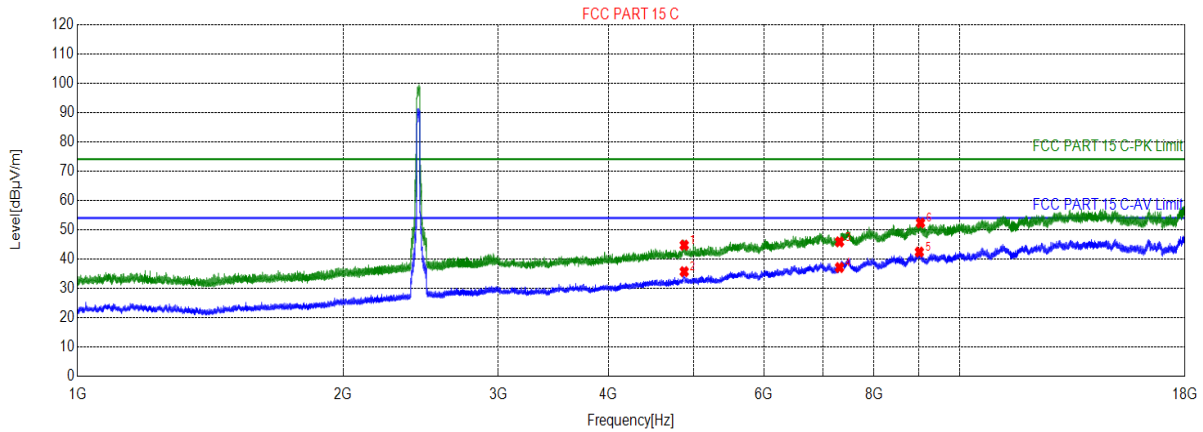
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### 802.11n20\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	44.72	-15.09	74.00	29.28	174	305	Horizontal
2	4874.00	35.68	-15.09	54.00	18.32	185	305	Horizontal
3	7311.00	45.85	-8.93	74.00	28.15	196	347	Horizontal
4	7311.00	37.09	-8.93	54.00	16.91	213	358	Horizontal
5	9005.04	42.38	-3.68	54.00	11.62	261	219	Horizontal
6	9032.04	52.30	-3.79	74.00	21.70	174	69	Horizontal

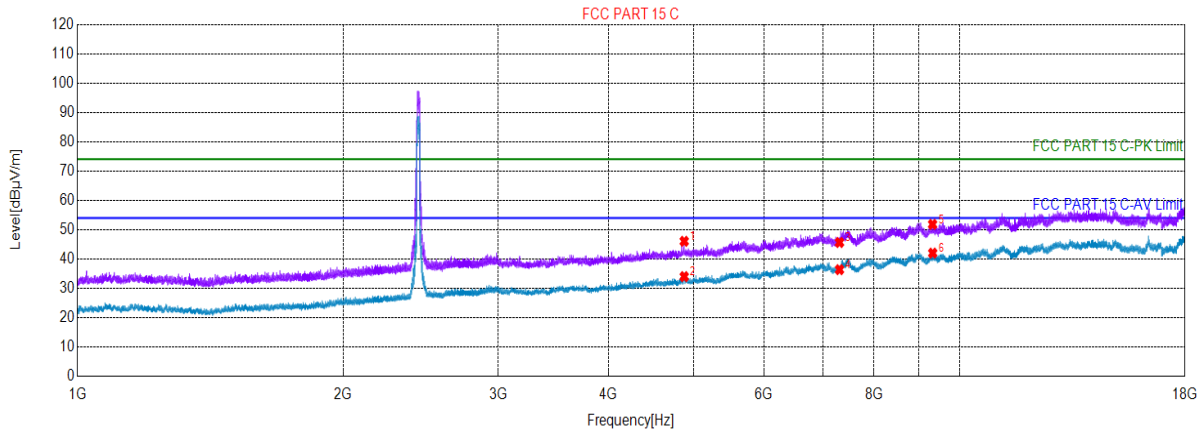
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### 802.11n20\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	46.04	-15.09	74.00	27.96	174	191	Vertical
2	4874.00	33.98	-15.09	54.00	20.02	184	191	Vertical
3	7311.00	45.63	-8.93	74.00	28.37	189	2	Vertical
4	7311.00	36.37	-8.93	54.00	17.63	216	103	Vertical
5	9320.65	51.81	-3.76	74.00	22.19	261	348	Vertical
6	9323.65	42.01	-3.74	54.00	11.99	274	276	Vertical

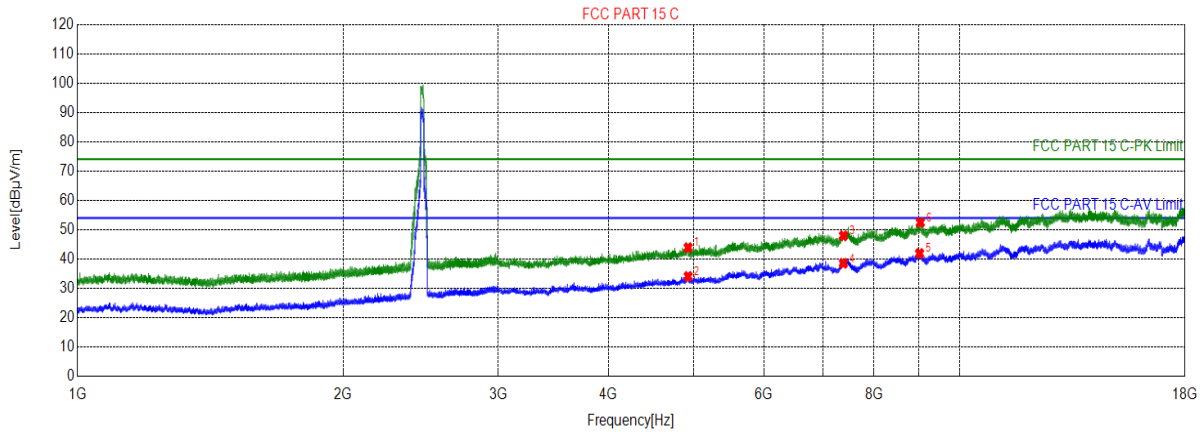
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### 802.11n20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	43.87	-14.74	74.00	30.13	174	218	Horizontal
2	4924.00	34.05	-14.74	54.00	19.95	185	291	Horizontal
3	7386.00	47.92	-7.78	74.00	26.08	231	46	Horizontal
4	7386.00	38.51	-7.78	54.00	15.49	261	131	Horizontal
5	9009.84	41.89	-3.70	54.00	12.11	291	348	Horizontal
6	9029.04	52.45	-3.78	74.00	21.55	254	16	Horizontal

#### Final Data List



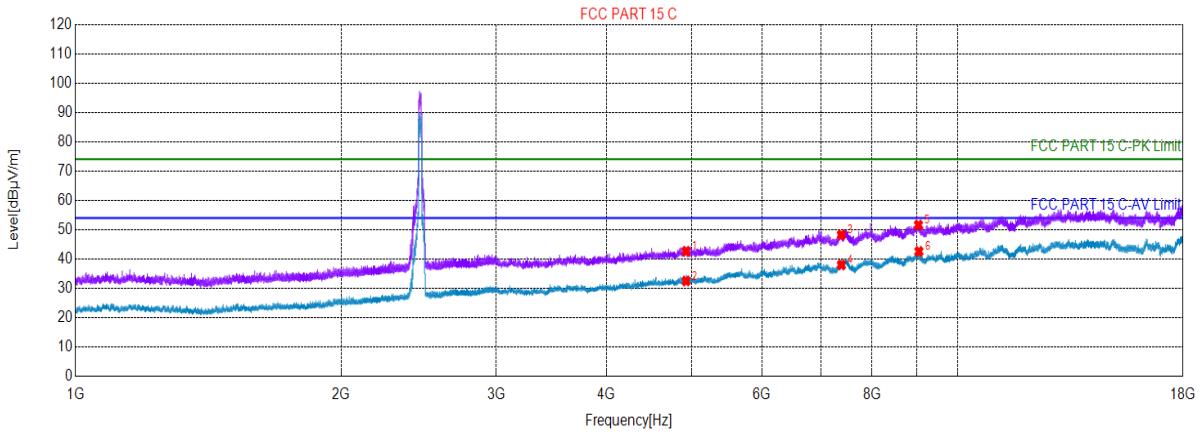
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### 802.11n20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	42.61	-14.74	74.00	31.39	174	188	Vertical
2	4924.00	32.51	-14.74	54.00	21.49	185	30	Vertical
3	7386.00	48.22	-7.78	74.00	25.78	191	304	Vertical
4	7386.00	37.97	-7.78	54.00	16.03	236	46	Vertical
5	9030.84	51.58	-3.79	74.00	22.42	291	45	Vertical
6	9041.64	42.58	-3.83	54.00	11.42	247	160	Vertical

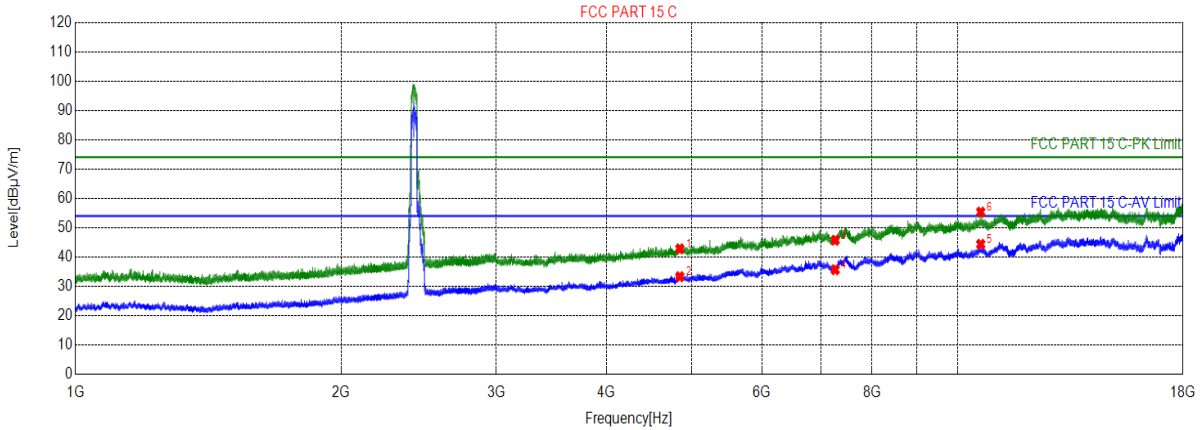
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### 802.11n40\_Channel 3

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	42.81	-15.21	74.00	31.19	174	237	Horizontal
2	4844.00	33.31	-15.21	54.00	20.69	185	45	Horizontal
3	7266.00	45.73	-9.04	74.00	28.27	196	237	Horizontal
4	7266.00	35.66	-9.04	54.00	18.34	213	237	Horizontal
5	10623.9	44.35	-1.59	54.00	9.65	261	165	Horizontal
6	10624.5	55.34	-1.59	74.00	18.66	284	88	Horizontal

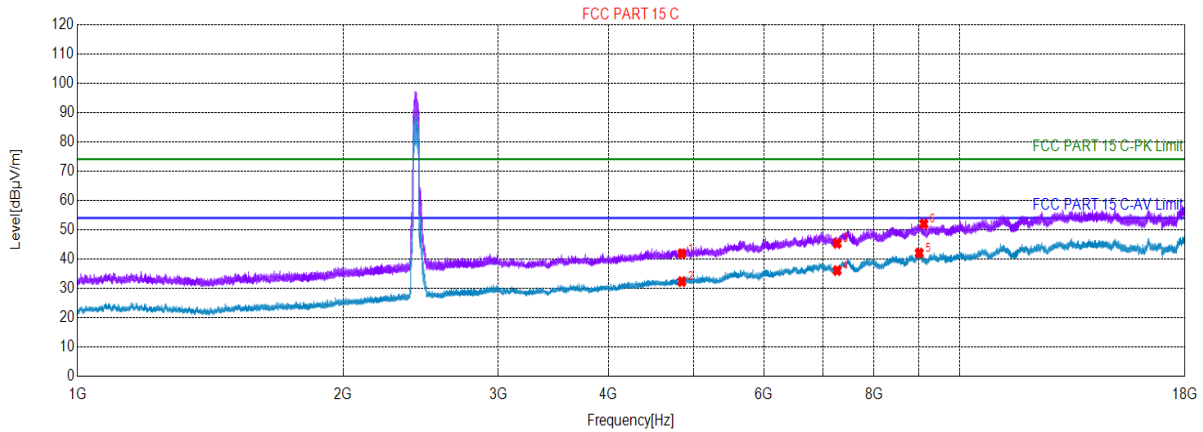
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### 802.11n40\_Channel 3

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	41.82	-15.21	74.00	32.18	185	320	Vertical
2	4844.00	32.29	-15.21	54.00	21.71	196	218	Vertical
3	7266.00	45.32	-9.04	74.00	28.68	321	2	Vertical
4	7266.00	36.08	-9.04	54.00	17.92	261	219	Vertical
5	9002.04	42.02	-3.67	54.00	11.98	248	102	Vertical
6	9111.24	51.98	-4.37	74.00	22.02	284	160	Vertical

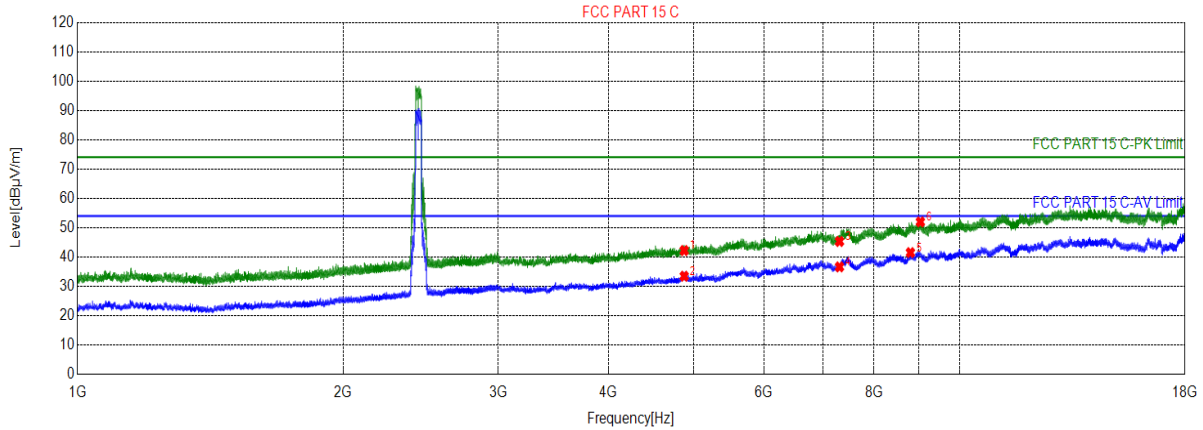
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### 802.11n40\_Channel 6

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	42.20	-15.09	74.00	31.80	174	204	Horizontal
2	4874.00	33.44	-15.09	54.00	20.56	185	104	Horizontal
3	7311.00	45.30	-8.93	74.00	28.70	123	220	Horizontal
4	7311.00	36.63	-8.93	54.00	17.37	269	358	Horizontal
5	8797.43	41.50	-4.40	54.00	12.50	291	234	Horizontal
6	9028.44	51.97	-3.78	74.00	22.03	164	166	Horizontal

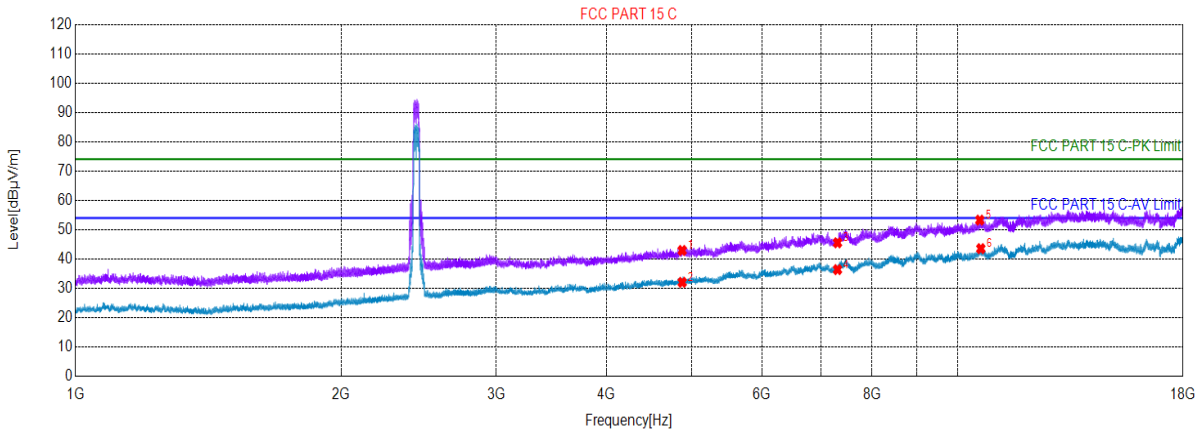
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### 802.11n40\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	42.91	-15.09	74.00	31.09	185	277	Vertical
2	4874.00	32.04	-15.09	54.00	21.96	196	261	Vertical
3	7311.00	45.53	-8.93	74.00	28.47	231	231	Vertical
4	7311.00	36.38	-8.93	54.00	17.62	261	203	Vertical
5	10599.3	53.26	-1.59	74.00	20.74	274	218	Vertical
6	10627.5	43.53	-1.59	54.00	10.47	125	130	Vertical

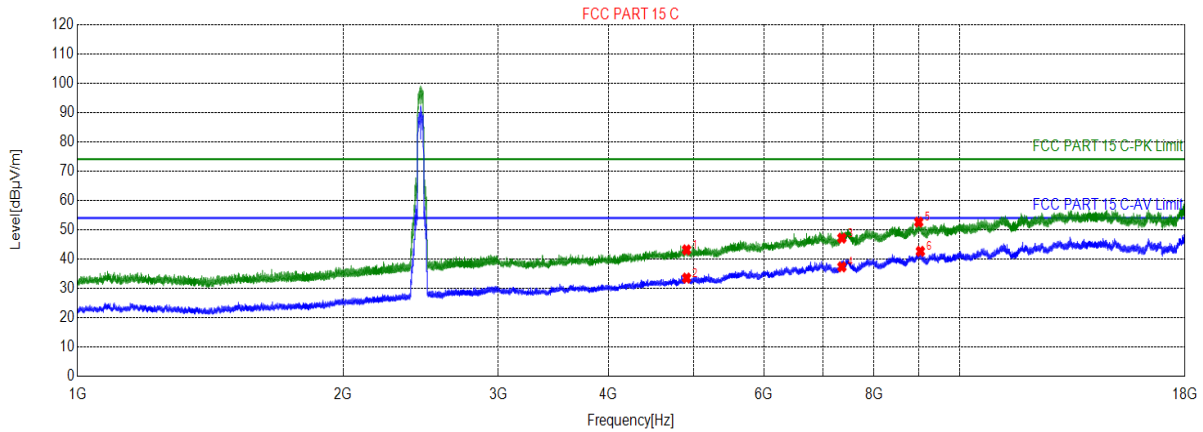
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### 802.11n40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	43.12	-14.95	74.00	30.88	182	293	Horizontal
2	4904.00	33.50	-14.95	54.00	20.50	261	281	Horizontal
3	7356.00	47.12	-7.68	74.00	26.88	196	251	Horizontal
4	7356.00	37.32	-7.68	54.00	16.68	321	56	Horizontal
5	8990.03	52.59	-3.76	74.00	21.41	261	279	Horizontal
6	9029.64	42.62	-3.78	54.00	11.38	241	225	Horizontal

#### Final Data List

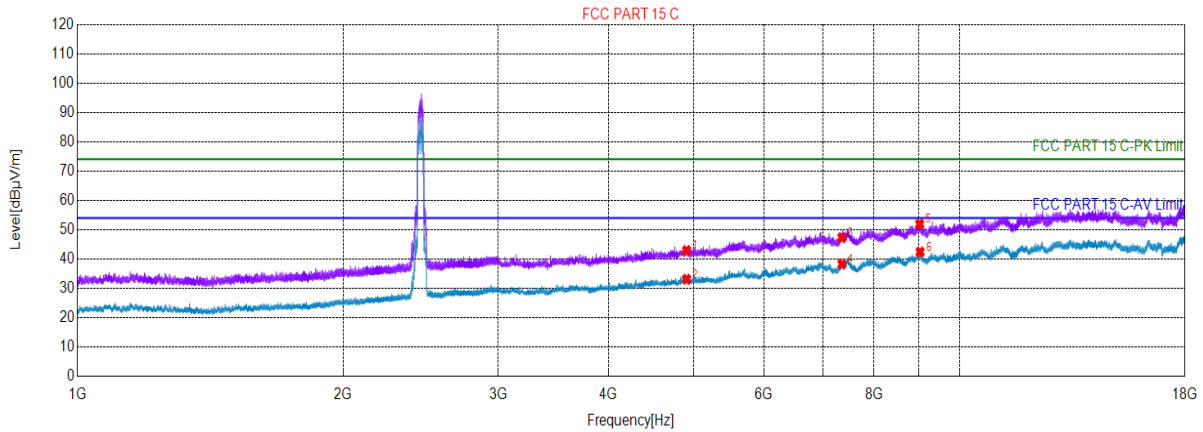


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### 802.11n40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	42.89	-14.95	74.00	31.11	174	8	Vertical
2	4904.00	33.11	-14.95	54.00	20.89	185	187	Vertical
3	7356.00	47.28	-7.68	74.00	26.72	196	14	Vertical
4	7356.00	38.25	-7.68	54.00	15.75	261	334	Vertical
5	9012.84	51.90	-3.71	74.00	22.10	242	14	Vertical
6	9021.24	42.40	-3.75	54.00	11.60	284	2	Vertical

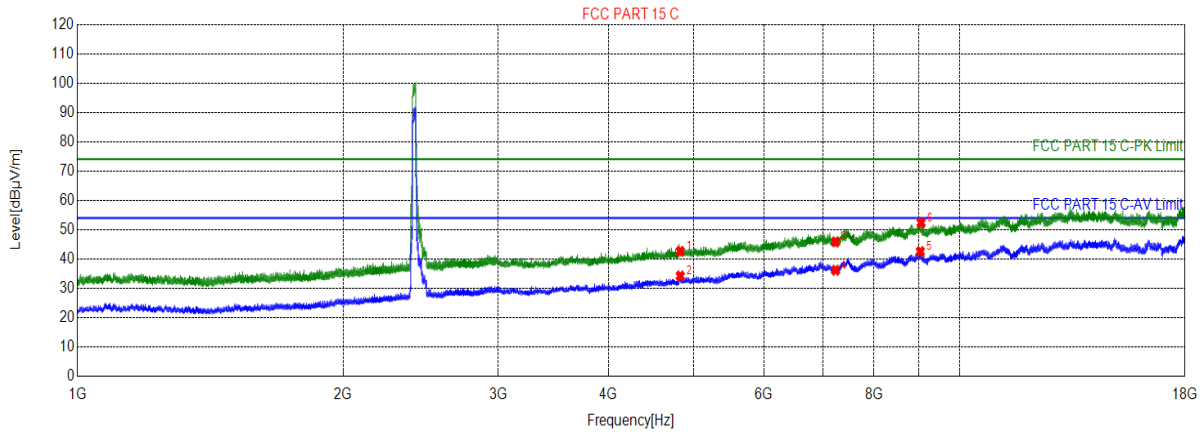
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### 802.11ax20\_Channel 1

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	42.63	-15.31	74.00	31.37	174	319	Horizontal
2	4824.00	34.22	-15.31	54.00	19.78	185	89	Horizontal
3	7236.00	45.87	-8.82	74.00	28.13	199	218	Horizontal
4	7236.00	36.17	-8.82	54.00	17.83	232	3	Horizontal
5	9027.84	42.55	-3.78	54.00	11.45	267	233	Horizontal
6	9045.84	52.35	-3.85	74.00	21.65	148	176	Horizontal

#### Final Data List

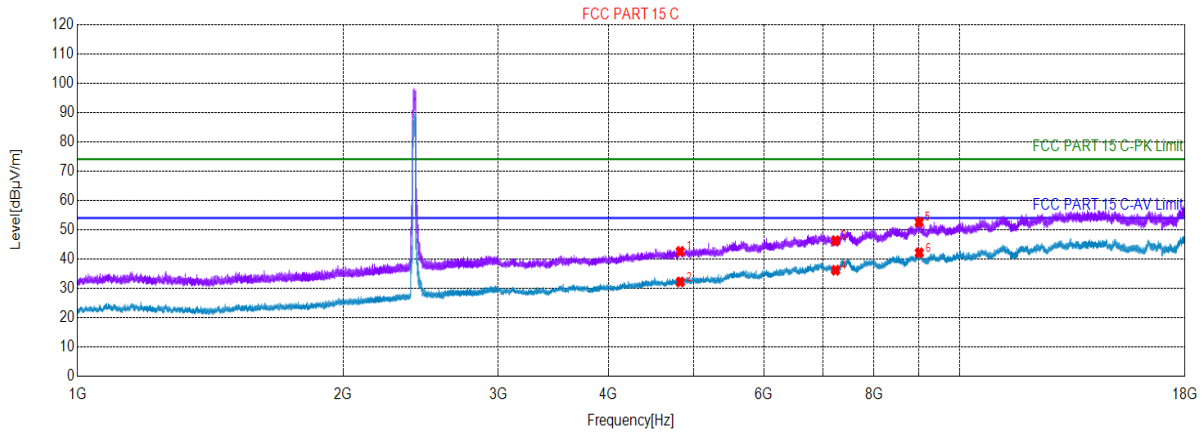


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### 802.11ax 20\_Channel 1

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	42.59	-15.31	74.00	31.41	174	305	Vertical
2	4824.00	32.16	-15.31	54.00	21.84	185	3	Vertical
3	7236.00	46.24	-8.82	74.00	27.76	196	131	Vertical
4	7236.00	36.18	-8.82	54.00	17.82	269	2	Vertical
5	8999.64	52.56	-3.66	74.00	21.44	288	15	Vertical
6	9003.24	42.11	-3.67	54.00	11.89	274	2	Vertical

#### Final Data List



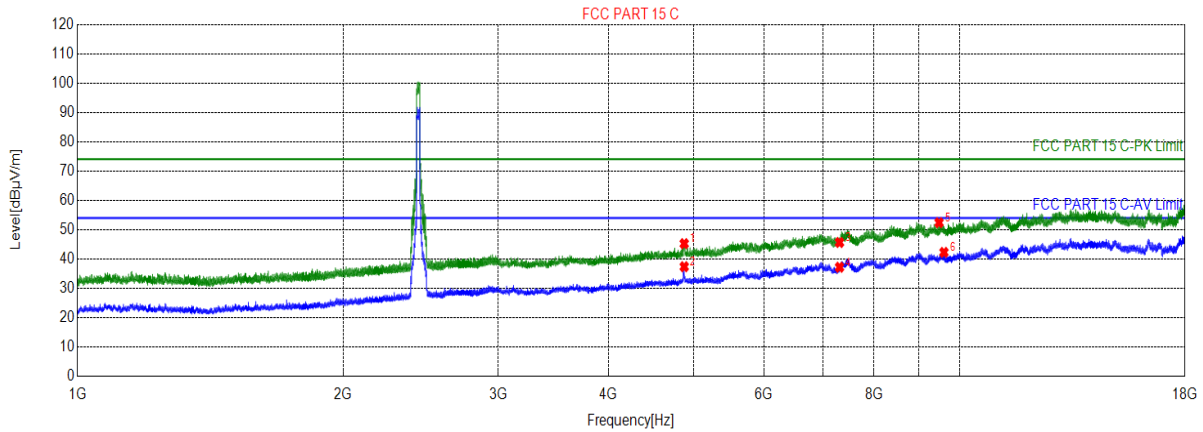
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### 802.11ax 20\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	45.24	-15.09	74.00	28.76	174	87	Horizontal
2	4874.00	37.37	-15.09	54.00	16.63	185	101	Horizontal
3	7311.00	45.64	-8.93	74.00	28.36	196	30	Horizontal
4	7311.00	37.19	-8.93	54.00	16.81	231	87	Horizontal
5	9480.25	52.38	-3.34	74.00	21.62	261	145	Horizontal
6	9602.06	42.26	-2.97	54.00	11.74	274	261	Horizontal

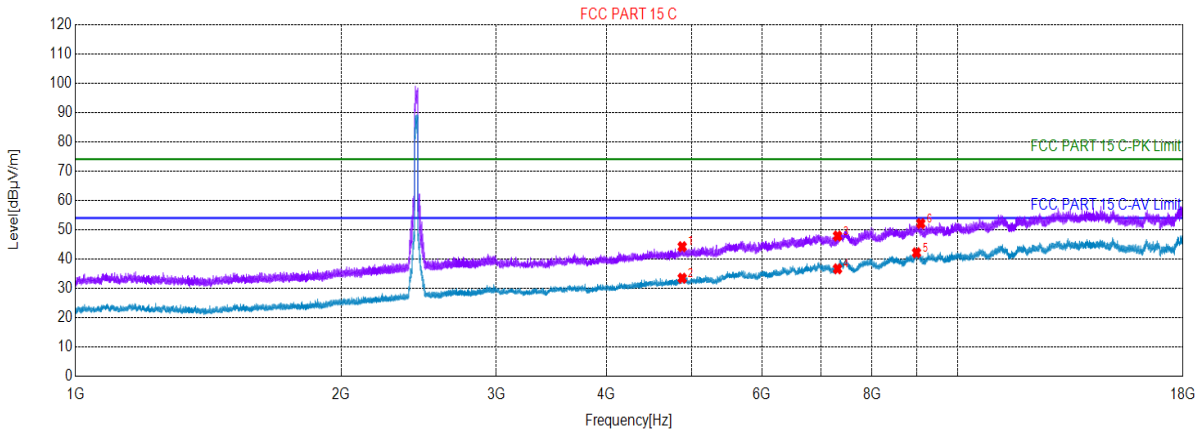
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### 802.11ax 20\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	44.21	-15.09	74.00	29.79	174	189	Vertical
2	4874.00	33.45	-15.09	54.00	20.55	185	175	Vertical
3	7311.00	47.84	-8.93	74.00	26.16	321	14	Vertical
4	7311.00	36.65	-8.93	54.00	17.35	262	305	Vertical
5	8984.03	42.13	-3.82	54.00	11.87	291	160	Vertical
6	9086.64	52.09	-4.27	74.00	21.91	281	290	Vertical

#### Final Data List

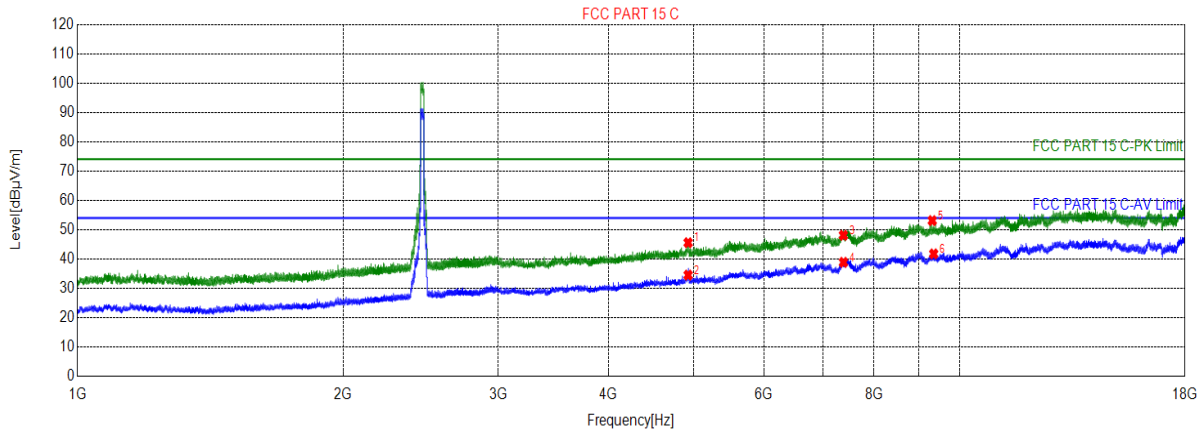


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### 802.11ax 20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	45.55	-14.74	74.00	28.45	174	72	Horizontal
2	4924.00	34.51	-14.74	54.00	19.49	185	290	Horizontal
3	7386.00	48.08	-7.78	74.00	25.92	196	58	Horizontal
4	7386.00	38.86	-7.78	54.00	15.14	231	188	Horizontal
5	9312.85	53.09	-3.82	74.00	20.91	262	88	Horizontal
6	9347.65	41.75	-3.55	54.00	12.25	284	188	Horizontal

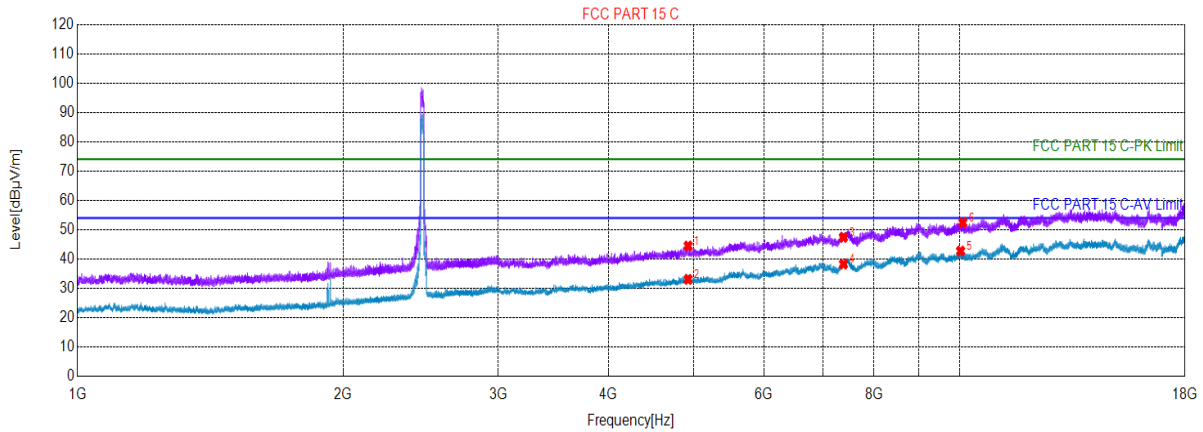
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### 802.11ax 20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	44.45	-14.74	74.00	29.55	258	173	Vertical
2	4924.00	33.07	-14.74	54.00	20.93	296	187	Vertical
3	7386.00	47.37	-7.78	74.00	26.63	185	358	Vertical
4	7386.00	38.24	-7.78	54.00	15.76	177	333	Vertical
5	10028.6	42.72	-2.80	54.00	11.28	213	102	Vertical
6	10086.8	52.40	-2.50	74.00	21.60	262	159	Vertical

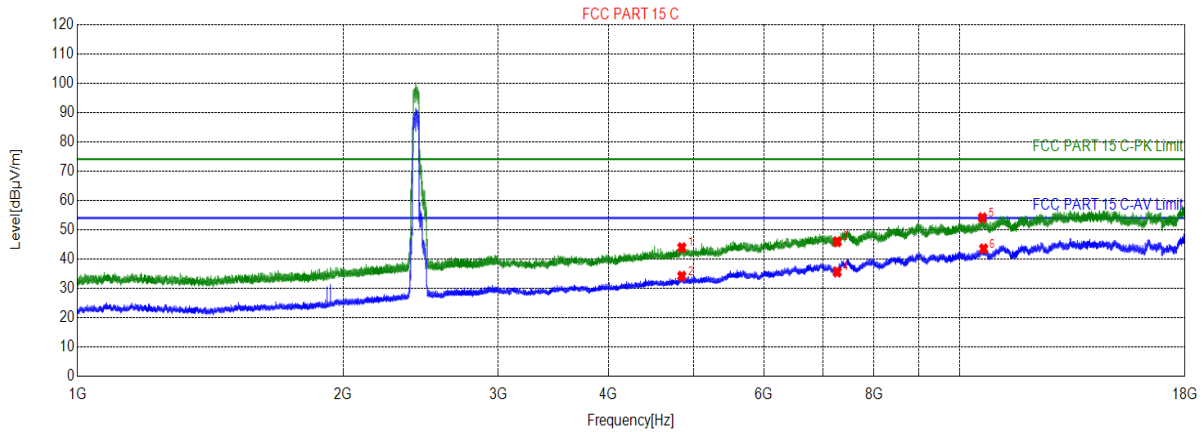
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### 802.11ax 40\_Channel 3

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	43.88	-15.21	74.00	30.12	174	312	Horizontal
2	4844.00	34.16	-15.21	54.00	19.84	185	66	Horizontal
3	7266.00	45.88	-9.04	74.00	28.12	159	219	Horizontal
4	7266.00	35.54	-9.04	54.00	18.46	291	125	Horizontal
5	10616.7	54.06	-1.59	74.00	19.94	231	111	Horizontal
6	10649.7	43.48	-1.58	54.00	10.52	261	60	Horizontal

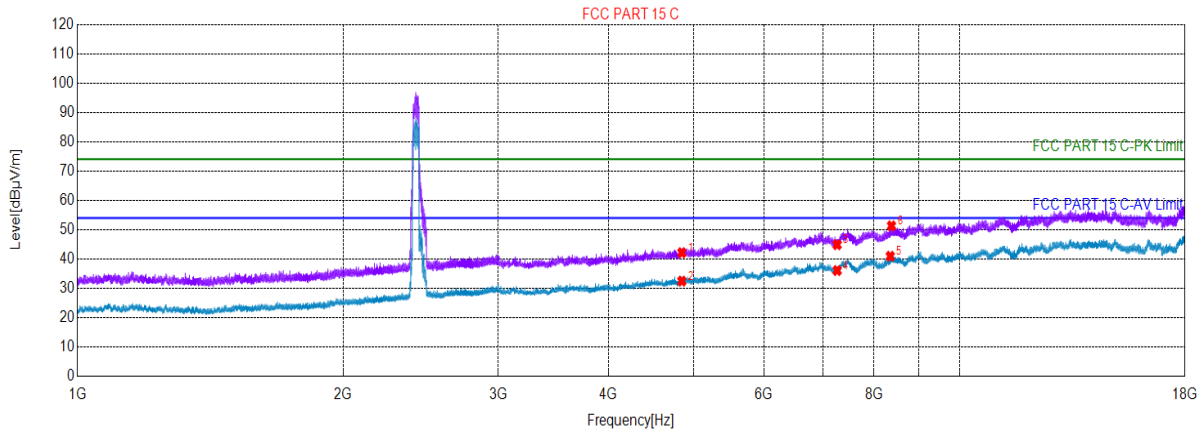
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### 802.11ax 40\_Channel 3

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	42.15	-15.21	74.00	31.85	174	304	Vertical
2	4844.00	32.46	-15.21	54.00	21.54	185	195	Vertical
3	7266.00	44.87	-9.04	74.00	29.13	322	108	Vertical
4	7266.00	36.06	-9.04	54.00	17.94	264	233	Vertical
5	8346.81	40.93	-6.02	54.00	13.07	291	145	Vertical
6	8373.21	51.30	-5.88	74.00	22.70	241	247	Vertical

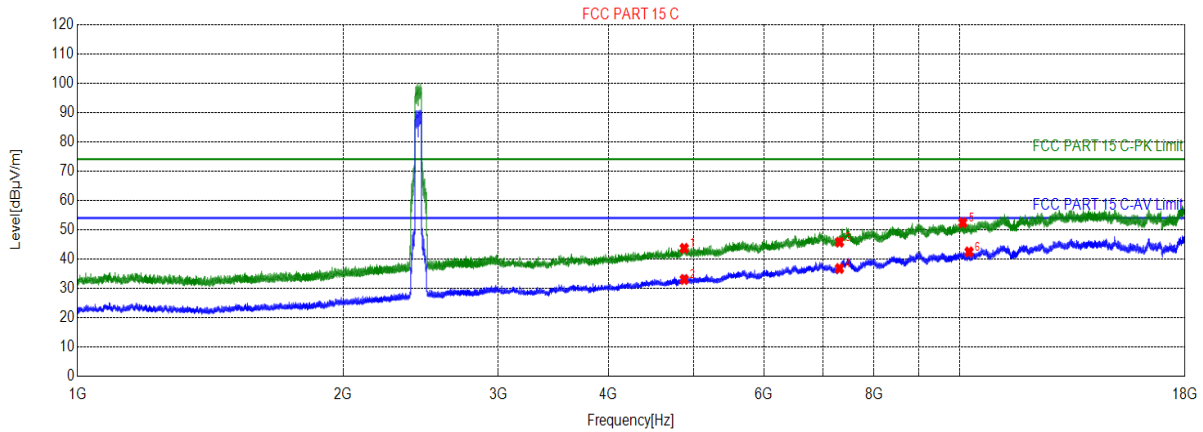
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### 802.11ax 40\_Channel 6

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	43.63	-15.09	74.00	30.37	174	304	Horizontal
2	4874.00	33.02	-15.09	54.00	20.98	185	304	Horizontal
3	7311.00	45.75	-8.93	74.00	28.25	196	304	Horizontal
4	7311.00	36.76	-8.93	54.00	17.24	321	358	Horizontal
5	10086.8	52.38	-2.50	74.00	21.62	262	217	Horizontal
6	10251.2	42.42	-2.08	54.00	11.58	281	229	Horizontal

#### Final Data List



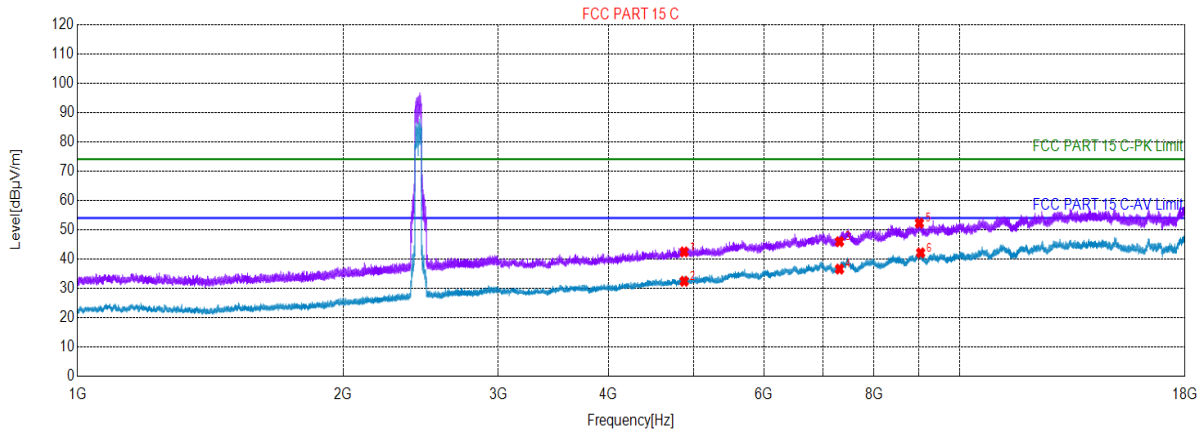
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### 802.11ax 40\_Channel 6

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	42.42	-15.09	74.00	31.58	285	291	Vertical
2	4874.00	32.40	-15.09	54.00	21.60	296	204	Vertical
3	7311.00	45.90	-8.93	74.00	28.10	231	246	Vertical
4	7311.00	36.57	-8.93	54.00	17.43	262	334	Vertical
5	9005.64	52.22	-3.68	74.00	21.78	159	218	Vertical
6	9035.04	42.10	-3.81	54.00	11.90	184	334	Vertical

#### Final Data List



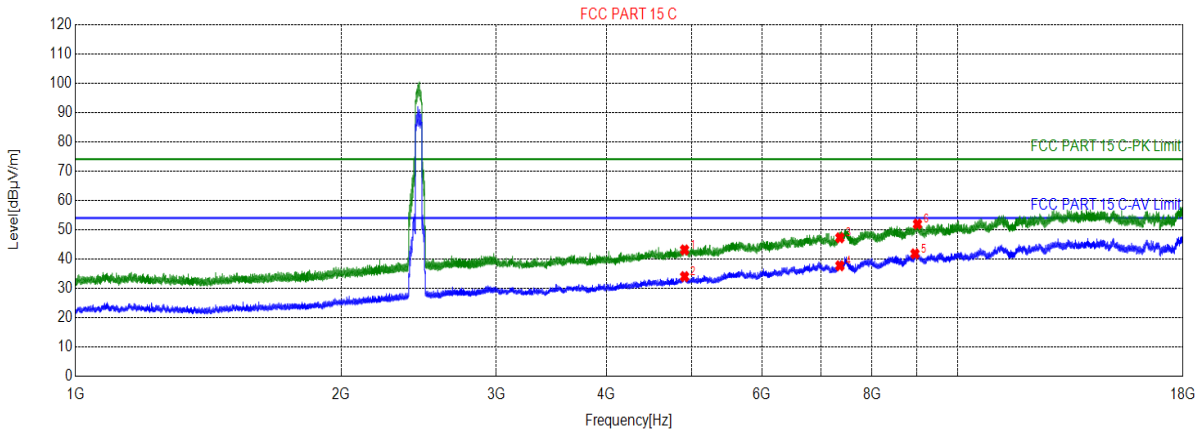
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### 802.11ax 40\_Channel 9

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	43.10	-14.95	74.00	30.90	174	334	Horizontal
2	4904.00	33.99	-14.95	54.00	20.01	185	305	Horizontal
3	7356.00	47.23	-7.68	74.00	26.77	196	262	Horizontal
4	7356.00	37.69	-7.68	54.00	16.31	231	72	Horizontal
5	8949.23	41.77	-4.16	54.00	12.23	261	247	Horizontal
6	9007.44	51.90	-3.69	74.00	22.10	281	57	Horizontal

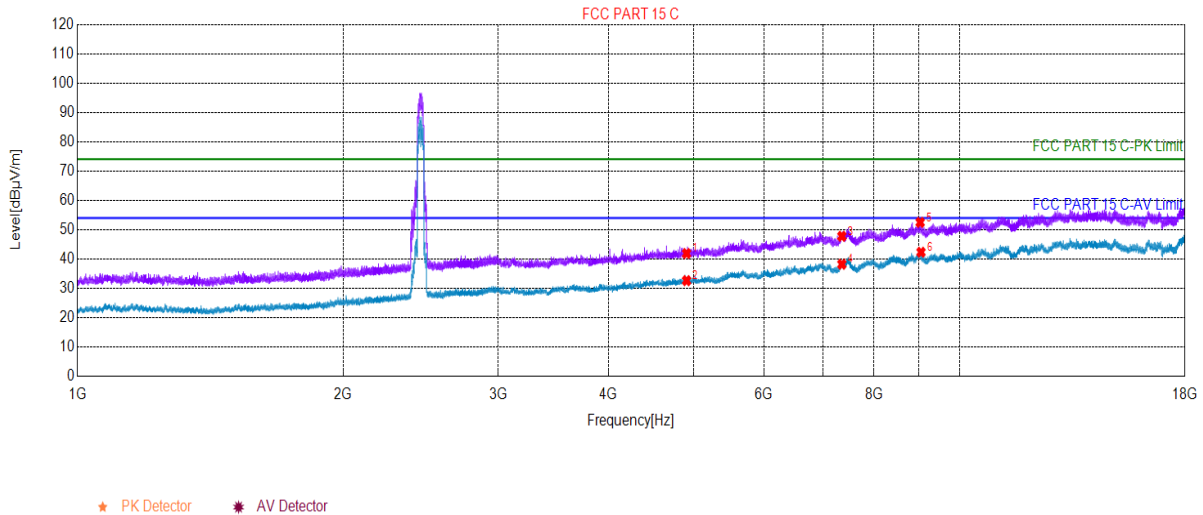
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### 802.11ax 40\_Channel 9

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	41.88	-14.95	74.00	32.12	174	29	Vertical
2	4904.00	32.62	-14.95	54.00	21.38	185	160	Vertical
3	7356.00	47.76	-7.68	74.00	26.24	196	44	Vertical
4	7356.00	38.21	-7.68	54.00	15.79	231	348	Vertical
5	9024.24	52.48	-3.76	74.00	21.52	262	176	Vertical
6	9043.44	42.32	-3.84	54.00	11.68	181	117	Vertical

#### Final Data List

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Factor}$$

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.

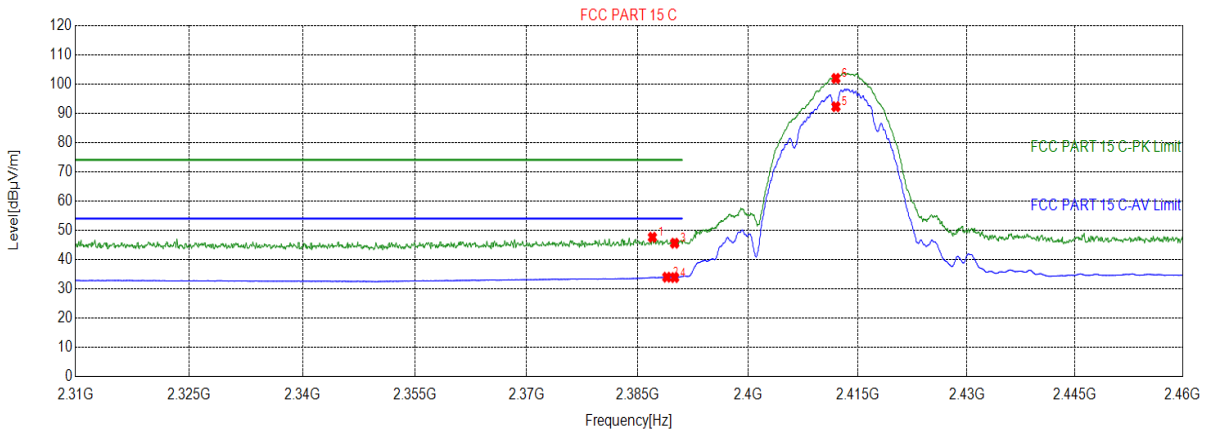


## Restricted bands around fundamental frequency

MIMO(Worst case):

802.11b\_Channel 1

### Test Graph



★ PK Detector    ✱ AV Detector

### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.98	47.59	9.52	74.00	26.41	189	15	Horizontal
2	2388.93	33.95	9.57	54.00	20.05	156	216	Horizontal
3	2390.00	45.55	9.60	74.00	28.45	211	42	Horizontal
4	2390.00	33.83	9.60	54.00	20.17	241	21	Horizontal
5	2412.00	92.21	9.85	0.00	-92.21	321	156	Horizontal
6	2412.00	101.86	9.85	0.00	-101.86	247	164	Horizontal

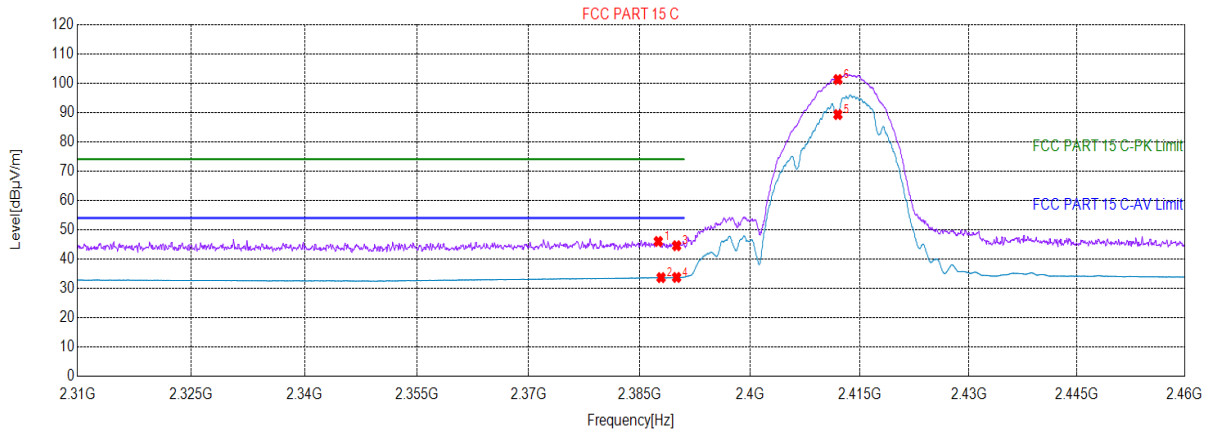
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### 802.11 b \_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.51	45.99	9.54	74.00	28.01	173	92	Vertical
2	2387.88	33.65	9.55	54.00	20.35	184	145	Vertical
3	2390.00	44.53	9.60	74.00	29.47	196	54	Vertical
4	2390.00	33.71	9.60	54.00	20.29	158	213	Vertical
5	2412.00	89.24	9.85	0.00	-89.24	213	218	Vertical
6	2412.00	101.22	9.85	0.00	-101.22	159	54	Vertical

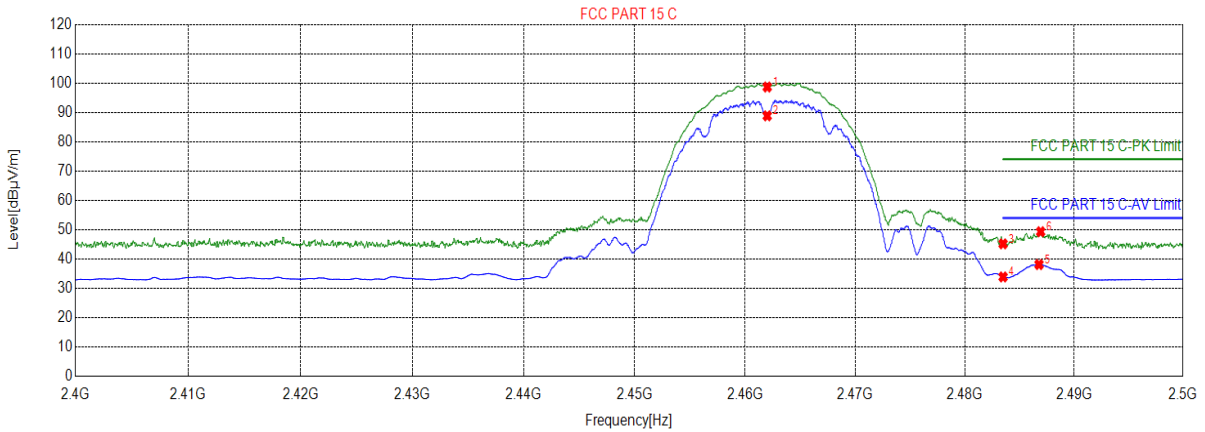
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### 802.11b\_Channel 11

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.65	8.25	0.00	-98.65	159	21	Horizontal
2	2462.00	88.81	8.25	0.00	-88.81	185	347	Horizontal
3	2483.50	45.17	8.48	74.00	28.83	196	61	Horizontal
4	2483.50	33.88	8.48	54.00	20.12	213	213	Horizontal
5	2486.79	38.10	8.49	54.00	15.90	216	159	Horizontal
6	2486.94	49.30	8.49	74.00	24.70	164	148	Horizontal

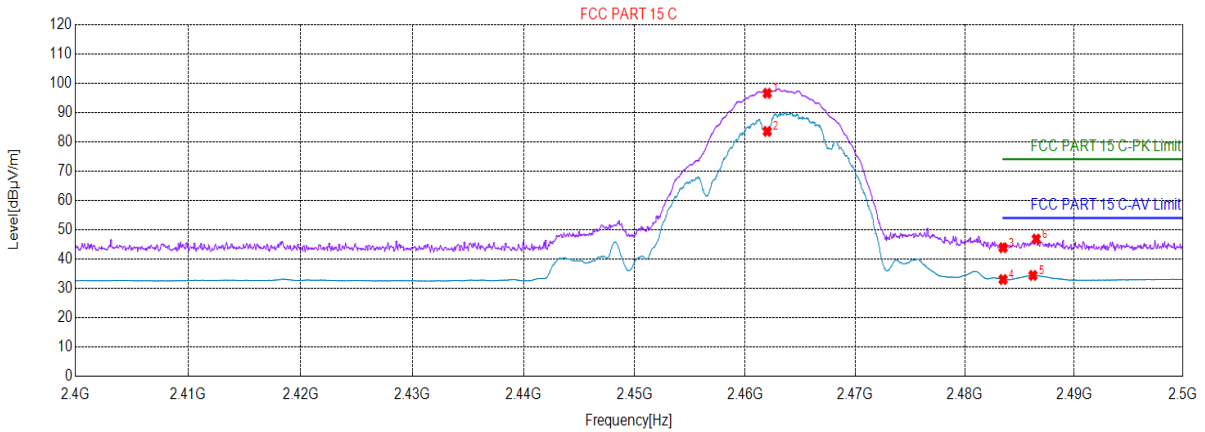
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### 802.11b\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.52	8.25	0.00	-96.52	215	151	Vertical
2	2462.00	83.52	8.25	0.00	-83.52	247	21	Vertical
3	2483.50	43.84	8.48	74.00	30.16	258	51	Vertical
4	2483.50	33.01	8.48	54.00	20.99	213	65	Vertical
5	2486.24	34.41	8.49	54.00	19.59	196	354	Vertical
6	2486.54	46.81	8.49	74.00	27.19	159	212	Vertical

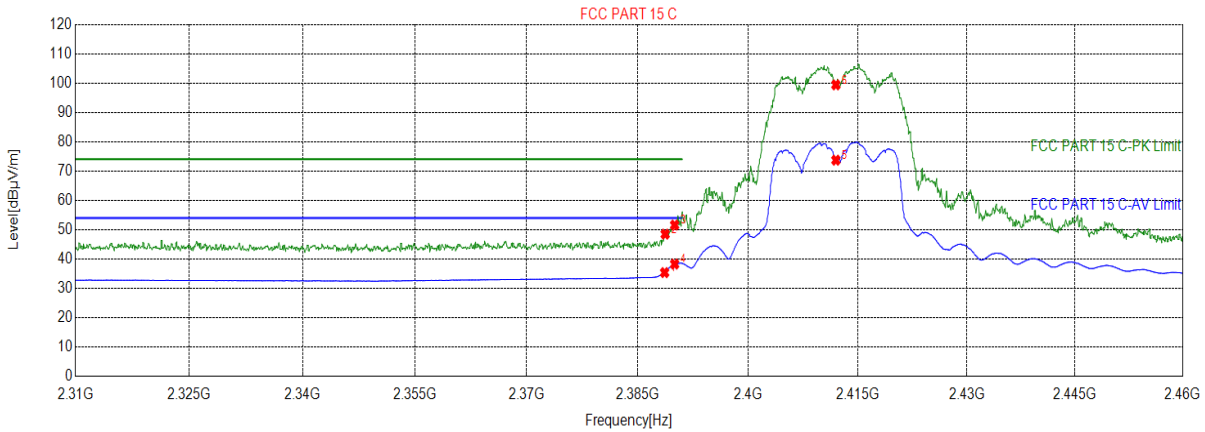
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**802.11g\_Channel 1**

**Test Graph**



★ PK Detector    ★ AV Detector

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.63	35.36	9.57	54.00	18.64	159	15	Horizontal
2	2388.71	48.47	9.57	74.00	25.53	223	22	Horizontal
3	2390.00	51.57	9.60	74.00	22.43	156	134	Horizontal
4	2390.00	38.26	9.60	54.00	15.74	176	264	Horizontal
5	2412.00	73.70	9.85	0.00	-73.70	162	235	Horizontal
6	2412.00	99.39	9.85	0.00	-99.39	254	354	Horizontal

**Final Data List**

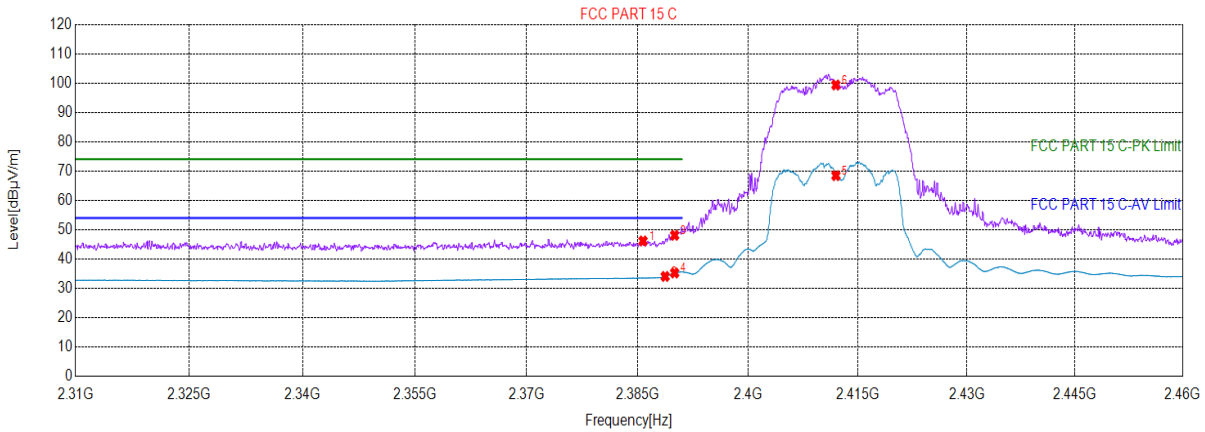


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### 802.11g\_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.71	46.15	9.49	74.00	27.85	159	15	Vertical
2	2388.71	34.05	9.57	54.00	19.95	196	225	Vertical
3	2390.00	48.08	9.60	74.00	25.92	174	213	Vertical
4	2390.00	35.23	9.60	54.00	18.77	213	216	Vertical
5	2412.00	68.43	9.85	0.00	-68.43	252	48	Vertical
6	2412.00	99.34	9.85	0.00	-99.34	184	314	Vertical

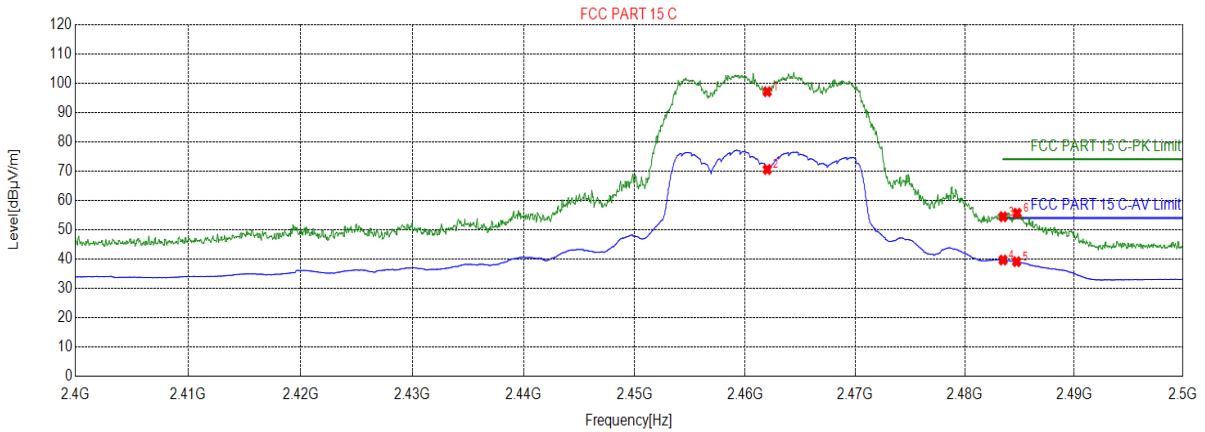
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### 802.11g\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	97.06	8.25	0.00	-97.06	235	245	Horizontal
2	2462.00	70.53	8.25	0.00	-70.53	196	232	Horizontal
3	2483.50	54.42	8.48	74.00	19.58	213	15	Horizontal
4	2483.50	39.64	8.48	54.00	14.36	185	21	Horizontal
5	2484.74	39.09	8.49	54.00	14.91	174	341	Horizontal
6	2484.79	55.61	8.49	74.00	18.39	159	112	Horizontal

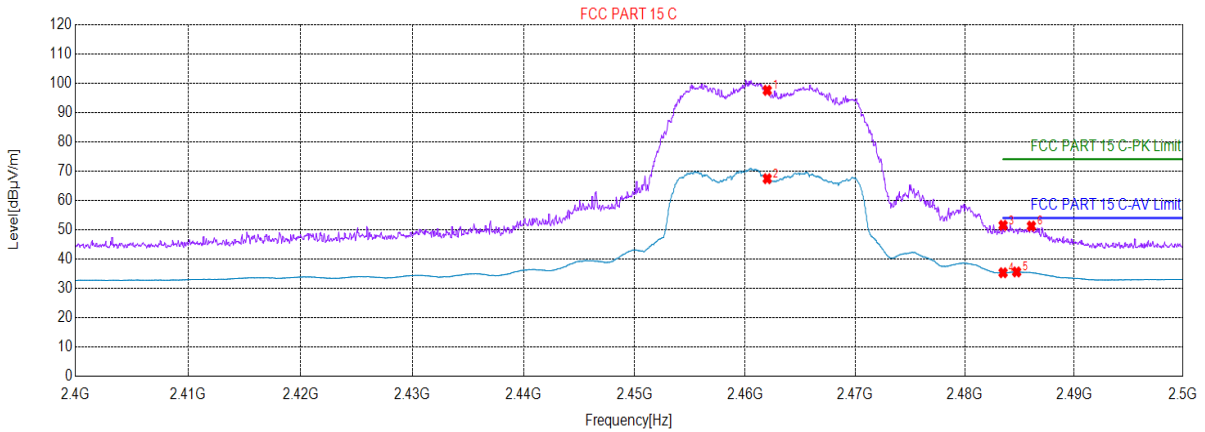
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### 802.11g\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	97.50	8.25	0.00	-97.50	218	241	Vertical
2	2462.00	67.39	8.25	0.00	-67.39	234	161	Vertical
3	2483.50	51.47	8.48	74.00	22.53	241	113	Vertical
4	2483.50	35.31	8.48	54.00	18.69	213	26	Vertical
5	2484.74	35.59	8.49	54.00	18.41	196	1	Vertical
6	2486.09	51.21	8.49	74.00	22.79	159	314	Vertical

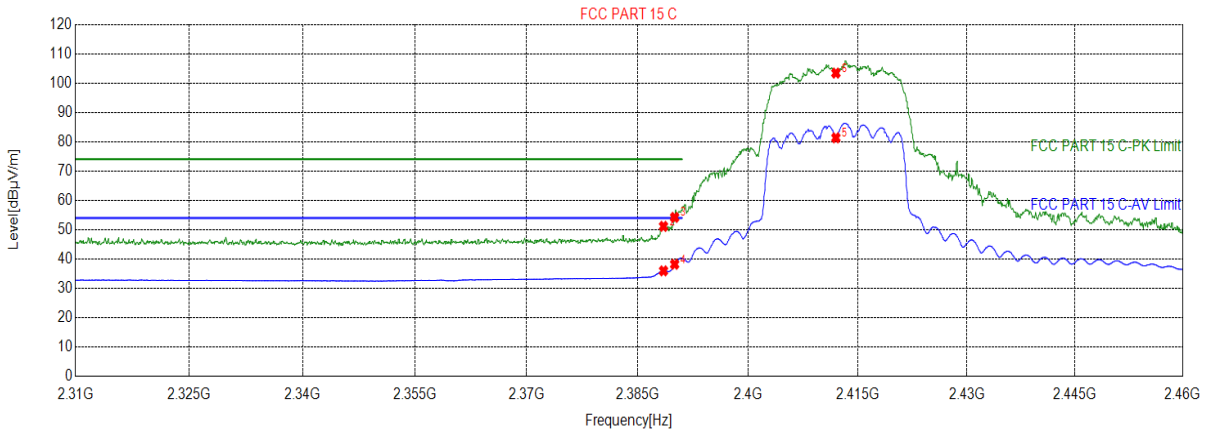
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### 802.11n20\_Channel 1

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.48	35.96	9.56	54.00	18.04	159	252	Horizontal
2	2388.48	51.13	9.56	74.00	22.87	196	48	Horizontal
3	2390.00	54.20	9.60	74.00	19.80	213	22	Horizontal
4	2390.00	38.19	9.60	54.00	15.81	261	61	Horizontal
5	2412.00	81.31	9.85	0.00	-81.31	234	91	Horizontal
6	2412.00	103.39	9.85	0.00	-103.39	154	351	Horizontal

#### Final Data List

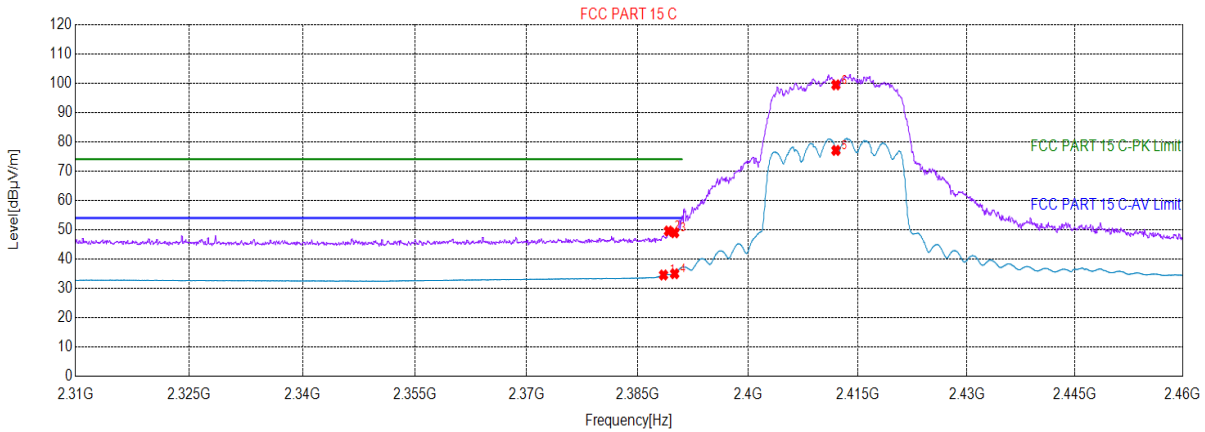


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### 802.11n20\_Channel 1

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.48	34.54	9.56	54.00	19.46	258	325	Vertical
2	2389.16	49.53	9.58	74.00	24.47	269	31	Vertical
3	2390.00	48.94	9.60	74.00	25.06	247	234	Vertical
4	2390.00	34.98	9.60	54.00	19.02	159	91	Vertical
5	2412.00	77.02	9.85	0.00	-77.02	184	241	Vertical
6	2412.00	99.38	9.85	0.00	-99.38	176	1	Vertical

#### Final Data List



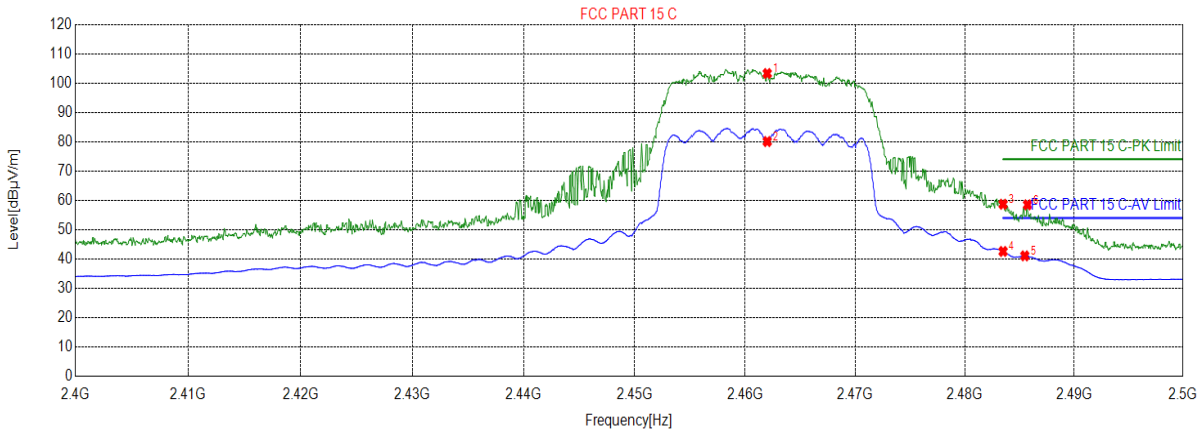
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### 802.11n20\_Channel 11

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	103.26	8.25	0.00	-103.26	159	241	Horizontal
2	2462.00	80.05	8.25	0.00	-80.05	184	213	Horizontal
3	2483.50	58.68	8.48	74.00	15.32	212	64	Horizontal
4	2483.50	42.58	8.48	54.00	11.42	231	55	Horizontal
5	2485.49	41.07	8.49	54.00	12.93	269	9	Horizontal
6	2485.74	58.48	8.49	74.00	15.52	274	14	Horizontal

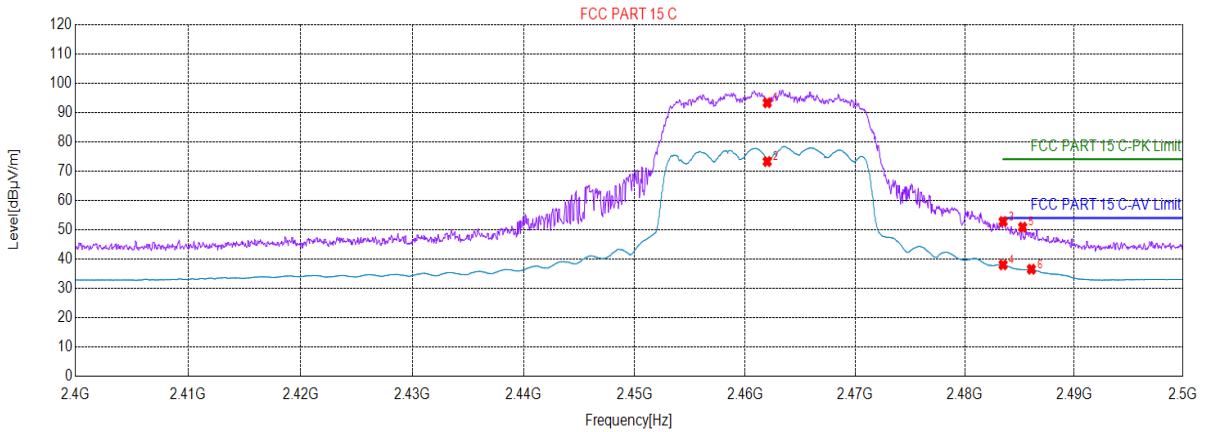
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### 802.11n20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.26	8.25	0.00	-93.26	196	25	Vertical
2	2462.00	73.24	8.25	0.00	-73.24	185	57	Vertical
3	2483.50	52.76	8.48	74.00	21.24	174	215	Vertical
4	2483.50	38.01	8.48	54.00	15.99	213	322	Vertical
5	2485.29	50.86	8.49	74.00	23.14	261	158	Vertical
6	2486.09	36.50	8.49	54.00	17.50	164	147	Vertical

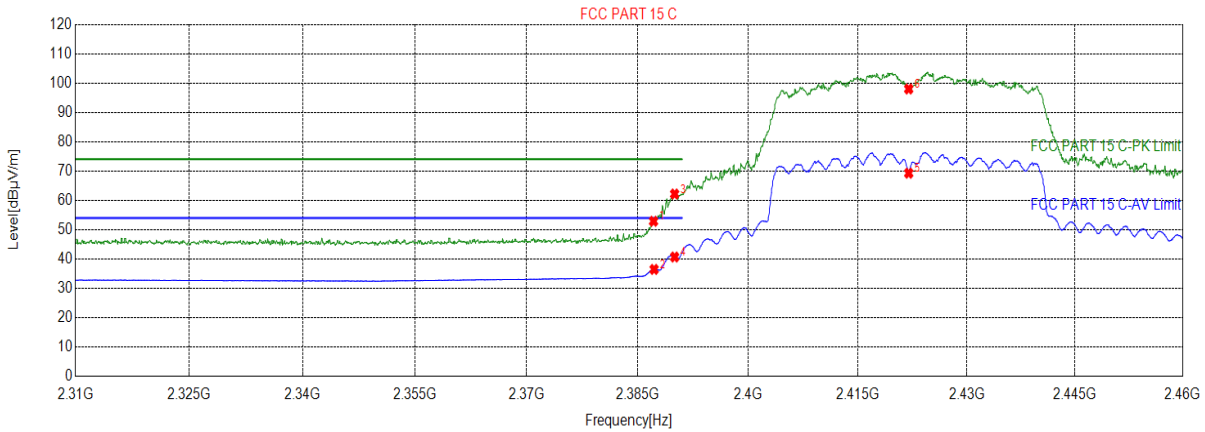
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### 802.11n40\_Channel 3

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.13	52.87	9.52	74.00	21.13	199	231	Horizontal
2	2387.21	36.46	9.53	54.00	17.54	185	325	Horizontal
3	2390.00	62.16	9.60	74.00	11.84	213	27	Horizontal
4	2390.00	40.68	9.60	54.00	13.32	264	159	Horizontal
5	2422.00	69.26	9.83	0.00	-69.26	148	16	Horizontal
6	2422.00	97.98	9.83	0.00	-97.98	219	94	Horizontal

#### Final Data List

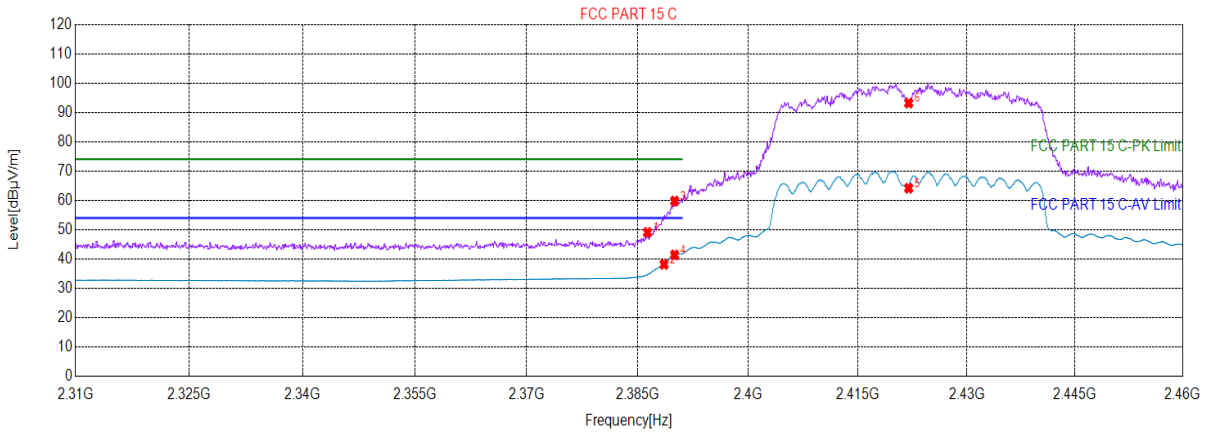


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### 802.11n40\_Channel 3

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.31	49.06	9.50	74.00	24.94	185	328	Vertical
2	2388.56	38.17	9.56	54.00	15.83	196	21	Vertical
3	2390.00	59.76	9.60	74.00	14.24	174	15	Vertical
4	2390.00	41.39	9.60	54.00	12.61	213	91	Vertical
5	2422.00	64.15	9.83	0.00	-64.15	246	154	Vertical
6	2422.00	93.15	9.83	0.00	-93.15	191	218	Vertical

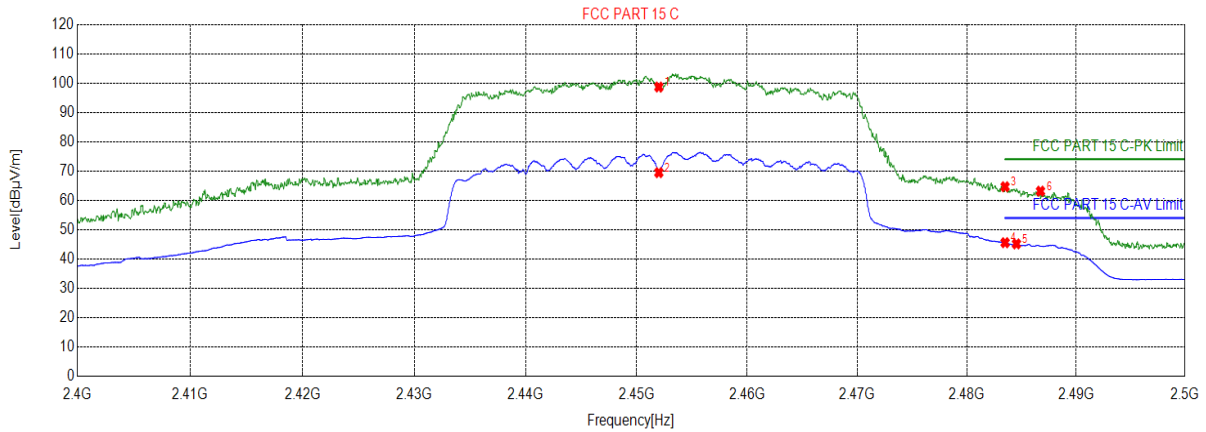
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### 802.11n40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	98.64	8.27	0.00	-98.64	159	122	Horizontal
2	2452.00	69.45	8.27	0.00	-69.45	196	232	Horizontal
3	2483.50	64.64	8.48	74.00	9.36	174	24	Horizontal
4	2483.50	45.56	8.48	54.00	8.44	185	51	Horizontal
5	2484.54	45.16	8.49	54.00	8.84	213	299	Horizontal
6	2486.74	63.12	8.49	74.00	10.88	261	315	Horizontal

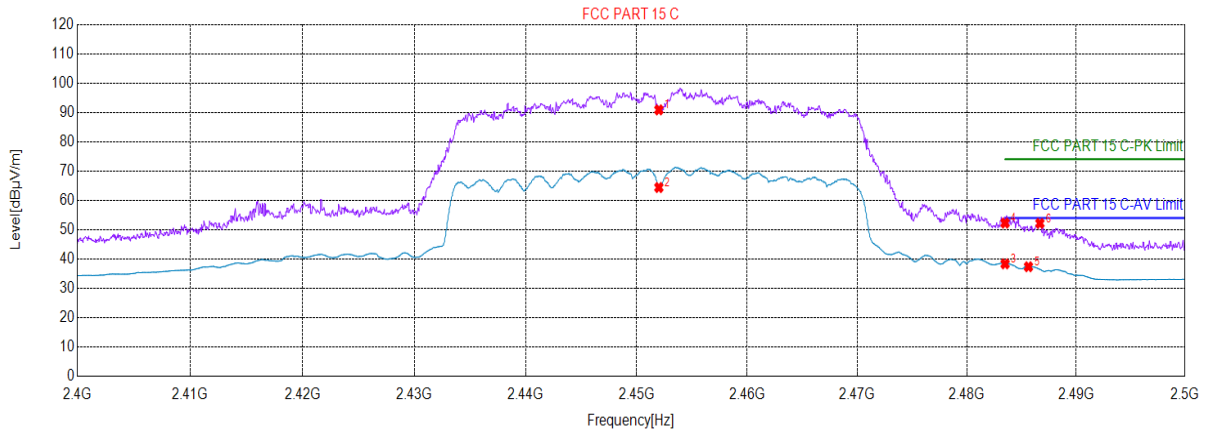
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### 802.11n40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	90.85	8.27	0.00	-90.85	258	99	Vertical
2	2452.00	64.37	8.27	0.00	-64.37	247	62	Vertical
3	2483.50	38.34	8.48	54.00	15.66	269	213	Vertical
4	2483.50	52.25	8.48	74.00	21.75	216	165	Vertical
5	2485.64	37.36	8.49	54.00	16.64	234	199	Vertical
6	2486.69	52.14	8.49	74.00	21.86	159	123	Vertical

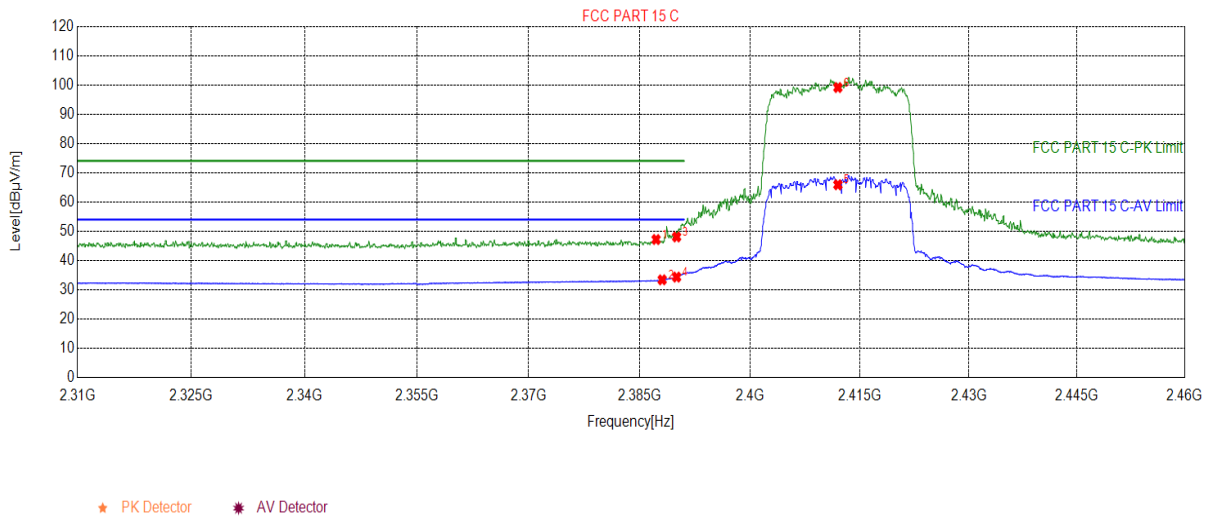
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### 802.11ax20\_Channel 1

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.21	47.17	9.53	74.00	26.83	125	95	Horizontal
2	2388.03	33.40	9.55	54.00	20.60	152	216	Horizontal
3	2390.00	48.06	9.60	74.00	25.94	182	159	Horizontal
4	2390.00	34.34	9.60	54.00	19.66	114	198	Horizontal
5	2412.00	65.87	9.85	0.00	-65.87	194	261	Horizontal
6	2412.00	99.09	9.85	0.00	-99.09	159	9	Horizontal

#### Final Data List



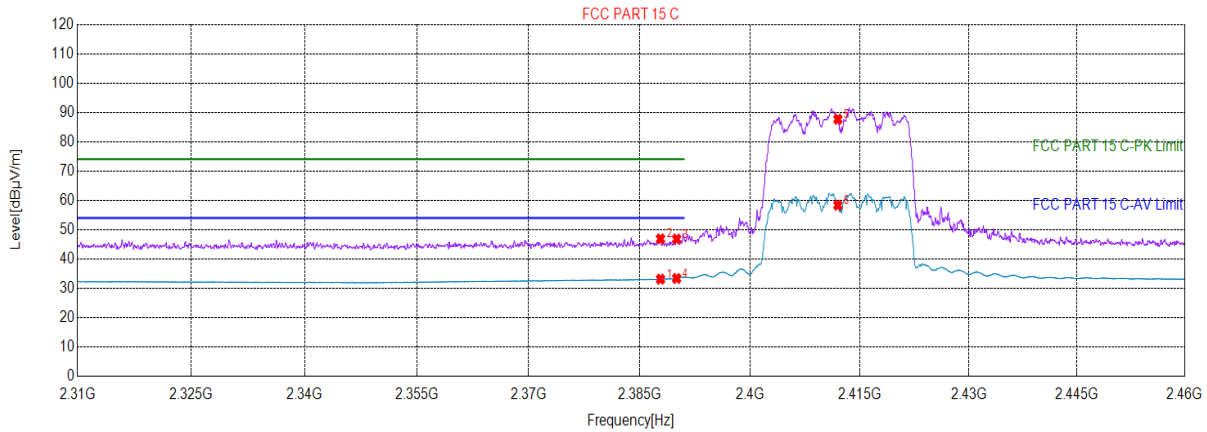
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### 802.11ax20\_Channel 1

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.81	33.13	9.54	54.00	20.87	224	51	Vertical
2	2387.81	46.88	9.54	74.00	27.12	285	91	Vertical
3	2390.00	46.80	9.60	74.00	27.20	210	213	Vertical
4	2390.00	33.36	9.60	54.00	20.64	204	216	Vertical
5	2412.00	87.67	9.85	0.00	-87.67	296	159	Vertical
6	2412.00	58.33	9.85	0.00	-58.33	200	21	Vertical

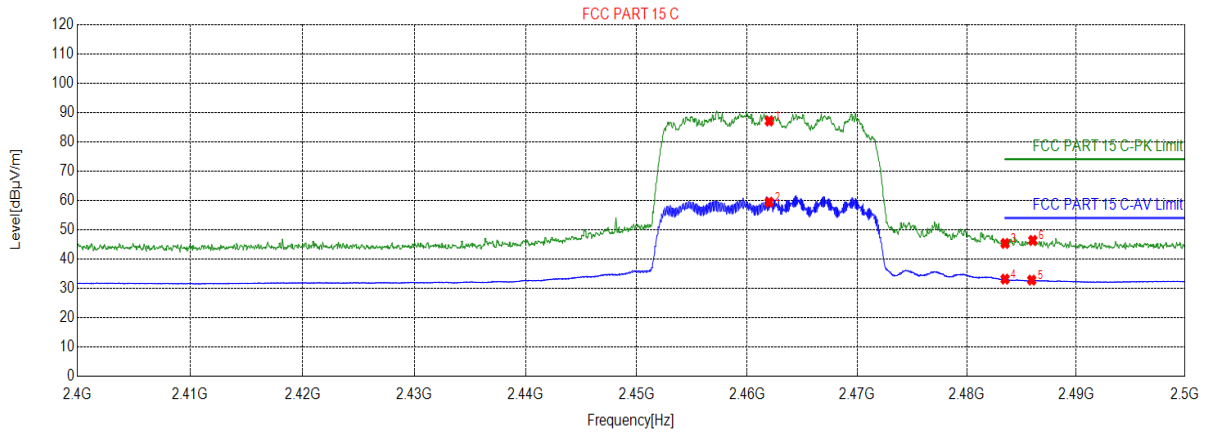
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### 802.11ax20\_Channel 11

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	87.06	8.25	0.00	-87.06	175	213	Horizontal
2	2462.00	59.38	8.25	0.00	-59.38	184	51	Horizontal
3	2483.50	45.31	8.48	74.00	28.69	101	185	Horizontal
4	2483.50	33.14	8.48	54.00	20.86	196	194	Horizontal
5	2485.94	32.79	8.49	54.00	21.21	144	184	Horizontal
6	2486.04	46.34	8.49	74.00	27.66	150	261	Horizontal

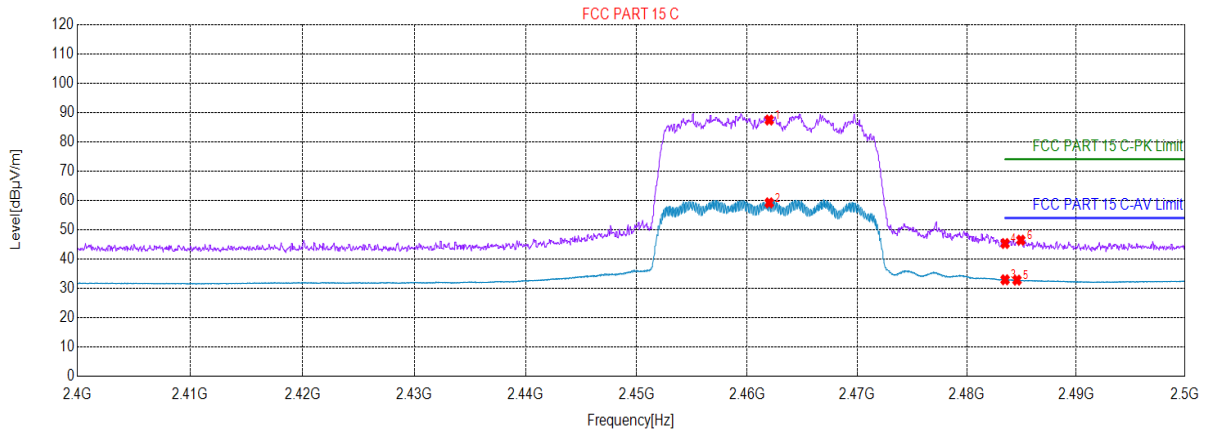
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### 802.11ax20\_Channel 11

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	87.40	8.25	0.00	-87.40	245	251	Vertical
2	2462.00	59.16	8.25	0.00	-59.16	201	123	Vertical
3	2483.50	32.92	8.48	54.00	21.08	255	216	Vertical
4	2483.50	45.29	8.48	74.00	28.71	295	21	Vertical
5	2484.59	32.80	8.49	54.00	21.20	241	151	Vertical
6	2484.94	46.43	8.49	74.00	27.57	200	91	Vertical

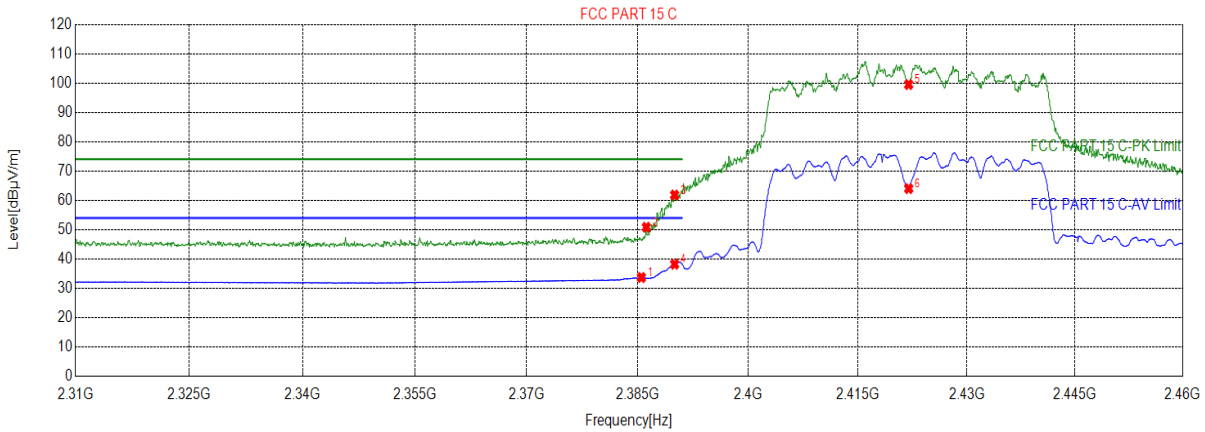
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### 802.11ax40\_Channel 3

#### Test Graph



★ PK Detector    \* AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.48	33.69	9.48	54.00	20.31	141	98	Horizontal
2	2386.16	50.82	9.50	74.00	23.18	124	123	Horizontal
3	2390.00	61.82	9.60	74.00	12.18	111	16	Horizontal
4	2390.00	38.22	9.60	54.00	15.78	178	251	Horizontal
5	2422.00	99.49	9.83	0.00	-99.49	158	321	Horizontal
6	2422.00	64.00	9.83	0.00	-64.00	189	61	Horizontal

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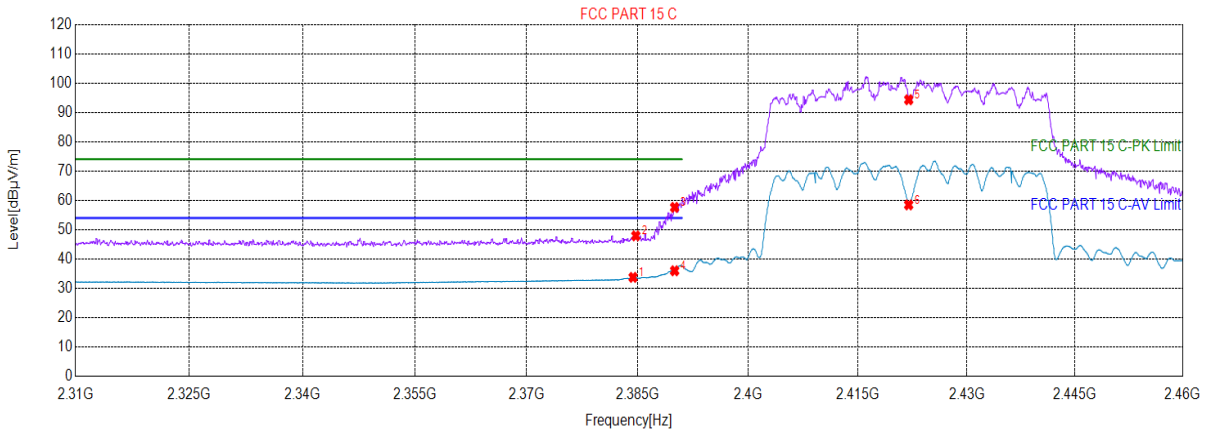
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### 802.11ax40\_Channel 3

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.36	33.74	9.45	54.00	20.26	285	18	Vertical
2	2384.73	47.89	9.46	74.00	26.11	296	325	Vertical
3	2390.00	57.61	9.60	74.00	16.39	341	237	Vertical
4	2390.00	35.98	9.60	54.00	18.02	204	212	Vertical
5	2422.00	94.31	9.83	0.00	-94.31	288	91	Vertical
6	2422.00	58.46	9.83	0.00	-58.46	213	215	Vertical

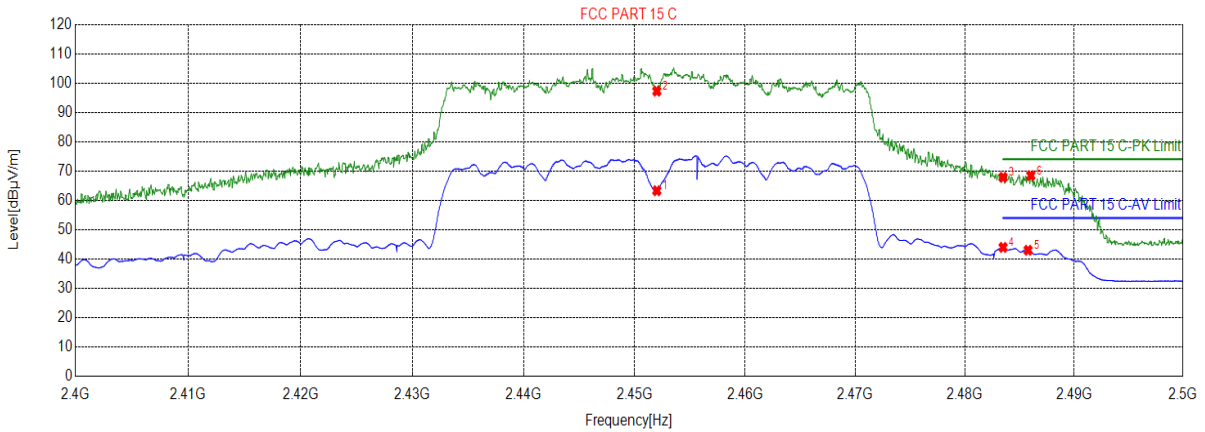
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### 802.11a 40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	63.30	8.27	0.00	-63.30	145	213	Horizontal
2	2452.00	97.23	8.27	0.00	-97.23	185	261	Horizontal
3	2483.50	67.84	8.48	74.00	6.16	142	91	Horizontal
4	2483.50	43.96	8.48	54.00	10.04	104	154	Horizontal
5	2485.79	42.98	8.49	54.00	11.02	111	112	Horizontal
6	2486.04	68.44	8.49	74.00	5.56	135	23	Horizontal

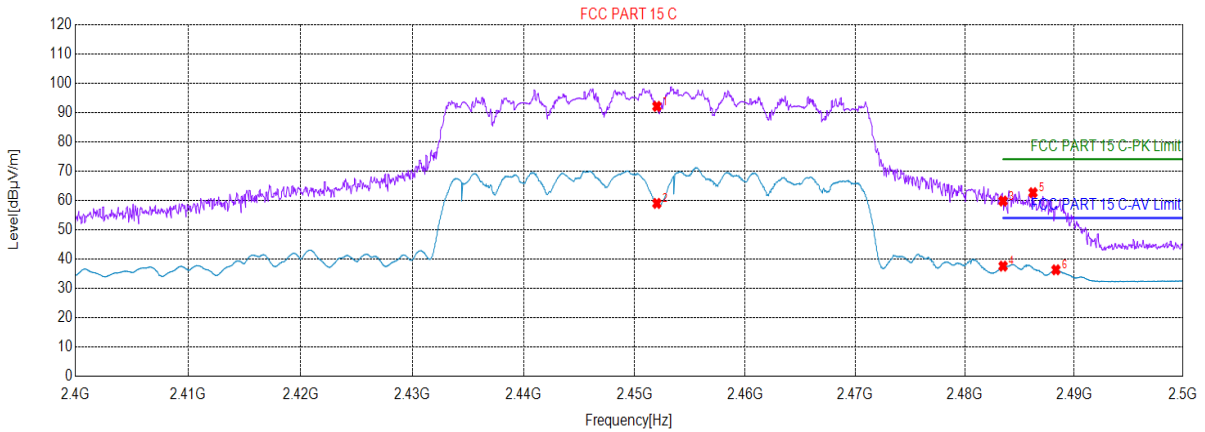
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### 802.11ax40\_Channel 9

#### Test Graph



★ PK Detector    ★ AV Detector

#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	92.04	8.27	0.00	-92.04	245	215	Vertical
2	2452.00	58.96	8.27	0.00	-58.96	341	191	Vertical
3	2483.50	59.77	8.48	74.00	14.23	305	231	Vertical
4	2483.50	37.56	8.48	54.00	16.44	298	91	Vertical
5	2486.24	62.62	8.49	74.00	11.38	266	66	Vertical
6	2488.34	36.31	8.50	54.00	17.69	310	351	Vertical

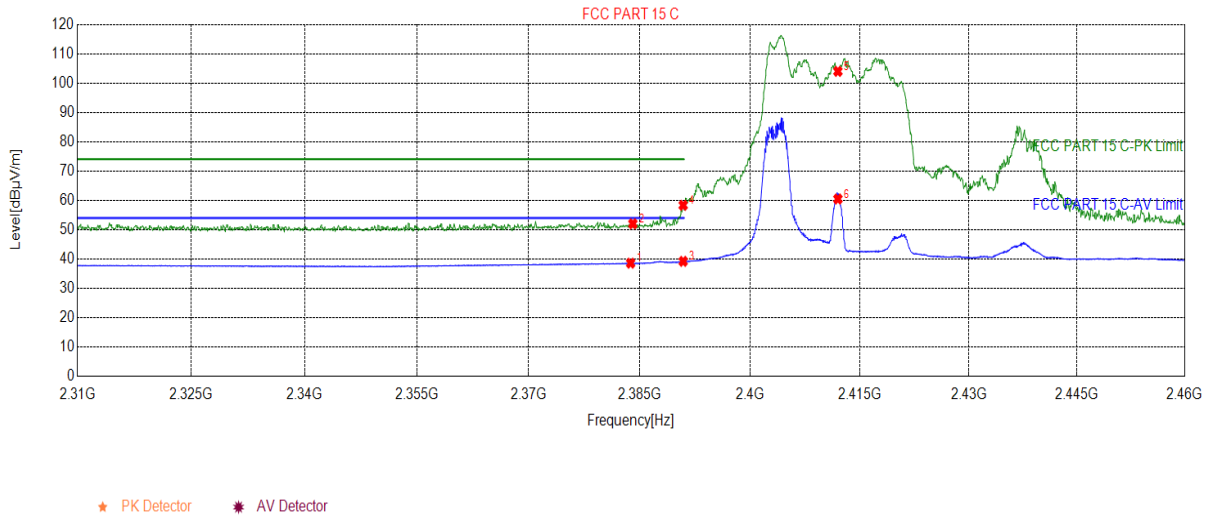
#### Final Data List



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### 802.11AX20\_Channel 1 26ToneRU0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.76	38.57	9.43	54.00	15.43	174	96	Horizontal
2	2384.06	52.01	9.44	74.00	21.99	185	12	Horizontal
3	2390.89	39.20	9.63	54.00	14.80	196	213	Horizontal
4	2390.89	58.32	9.63	74.00	15.68	231	215	Horizontal
5	2412.00	103.98	9.85	0.00	-103.98	236	155	Horizontal
6	2412.00	60.46	9.85	0.00	-60.46	147	231	Horizontal

#### Final Data List

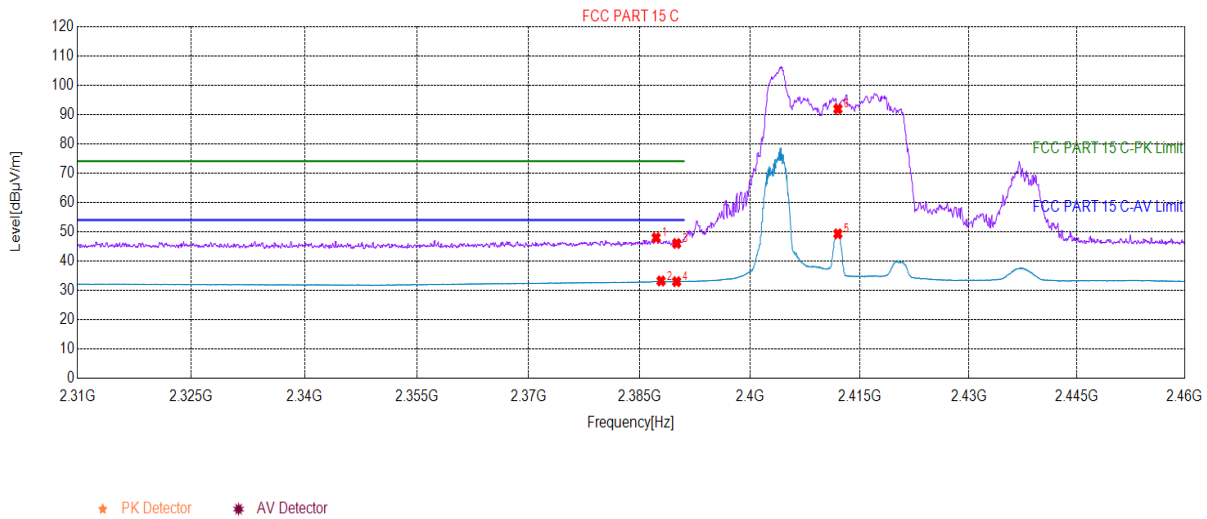


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### 802.11AX20\_Channel 1 26ToneRU0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.21	47.93	9.53	74.00	26.07	194	185	Vertical
2	2387.88	33.19	9.55	54.00	20.81	196	123	Vertical
3	2390.00	45.98	9.60	74.00	28.02	321	26	Vertical
4	2390.00	32.95	9.60	54.00	21.05	232	91	Vertical
5	2412.00	49.27	9.85	0.00	-49.27	261	235	Vertical
6	2412.00	91.84	9.85	0.00	-91.84	154	321	Vertical

#### Final Data List



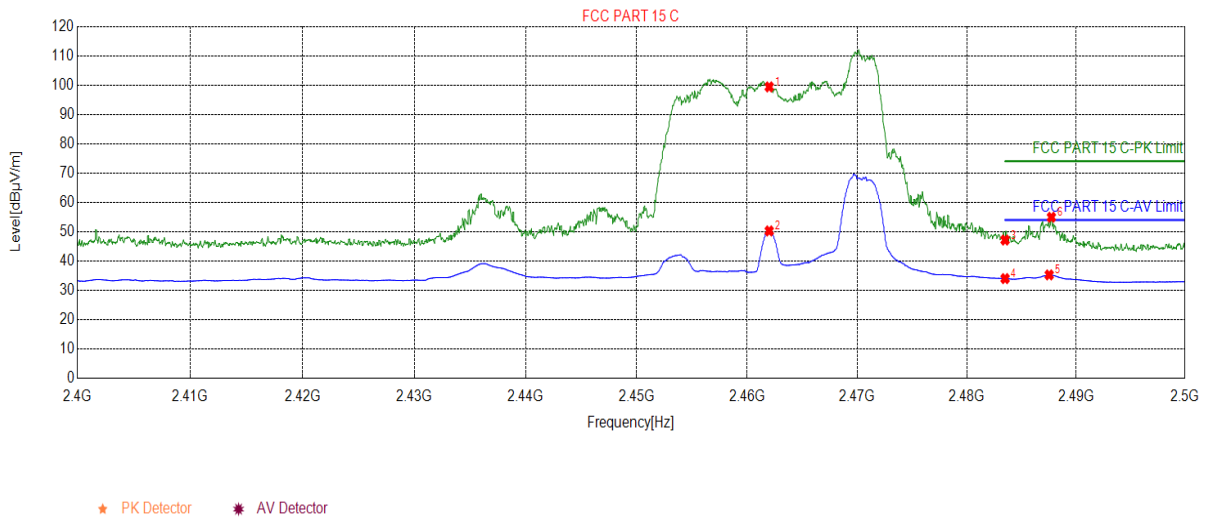
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### 802.11AX20\_Channel 11 26ToneRU8

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	99.37	8.25	0.00	-99.37	174	95	Horizontal
2	2462.00	50.25	8.25	0.00	-50.25	185	12	Horizontal
3	2483.50	47.15	8.48	74.00	26.85	196	163	Horizontal
4	2483.50	34.00	8.48	54.00	20.00	321	223	Horizontal
5	2487.54	35.26	8.50	54.00	18.74	231	205	Horizontal
6	2487.74	54.92	8.50	74.00	19.08	151	315	Horizontal

#### Final Data List



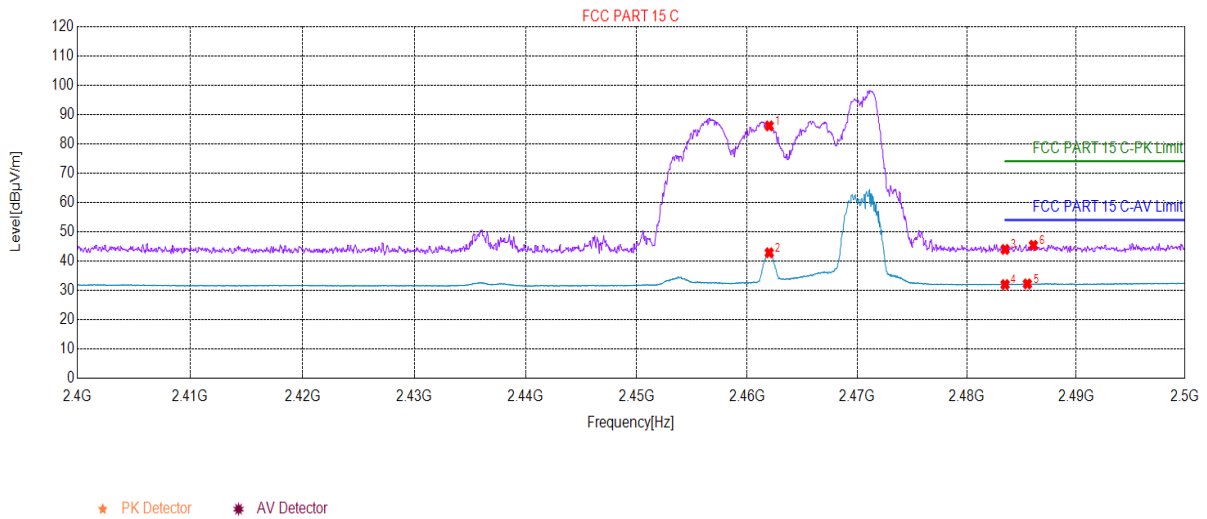
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**802.11AX20\_Channel 11 26ToneRU8**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	86.07	8.25	0.00	-86.07	171	94	Vertical
2	2462.00	42.81	8.25	0.00	-42.81	185	123	Vertical
3	2483.50	43.96	8.48	74.00	30.04	196	215	Vertical
4	2483.50	31.96	8.48	54.00	22.04	321	61	Vertical
5	2485.54	32.20	8.49	54.00	21.80	261	32	Vertical
6	2486.09	45.36	8.49	74.00	28.64	124	155	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:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor

Final Test Level =Receiver Reading + Factor

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

The End



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