

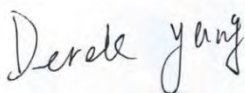
FCC TEST REPORT

Application No.: HR/2020/B0007
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CHL-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCHL-LX1
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/9
Date of Test: 2020/12/9 to 2020/12/31
Date of Issue: 2021/4/25

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

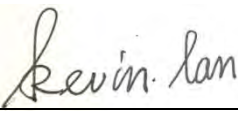


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-31		Original
02		2021-2-22	Jim Huang	Comment Revised
03		2021-4-25	Kevin.Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report HR/2020/B000704, issued on 2021-2-22, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		(Kevin.Lan) /Engineer
Checked By		(David Chen) /Reviewer



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2 Test Summary

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

Remark : All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI'AN) CO., LTD.



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3 General Information

3.1 Details of Client

Applicant:	Honor Device Co., Ltd.
Address of Applicant	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer:	Honor Device Co., Ltd.
Address of Manufacturer	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test Engineer	Dee Zheng, Mike Hu

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test Engineer	Ben Huang, Leah Chen



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3.3 Test Facility

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

Lab A:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

• **A2LA (Certificate No. 4854.01)**

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

• **FCC –Designation Number: CN1271**



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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	CHL-LX1
Trade Mark:	HONOR
Hardware Version:	HL3CHLM
Software Version:	5.0.1.69(C900E12R1P2)
IEEE 802.11 WLAN Mode Supported	☒ 802.11B (20 MHz channel bandwidth), ☒ 802.11G (20 MHz channel bandwidth), ☒ 802.11N (20 MHz channel bandwidth), ☒ 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: $-f_c$ = "Operating Frequency" in MHz, $-N$ = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM IEEE for 802.11N(HT40) : OFDM
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11B/G/N), ☐ MIMO (for 802.11N): 2 Tx & 2 Rx, ☐ Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-2.0dBi
Power Supply	☒ AC/DC Adapter; ☐ Battery ☐ PoE;; ☐ Other:

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency of each channel (802.11N HT40)

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



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Remark:

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

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

3.5 Test Environment and Mode

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

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.0dBi.	



4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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



SGS-CSTC Standards Technical Services Co., Ltd
Shenzhen Branch Testing Center (CCTC Laboratory)

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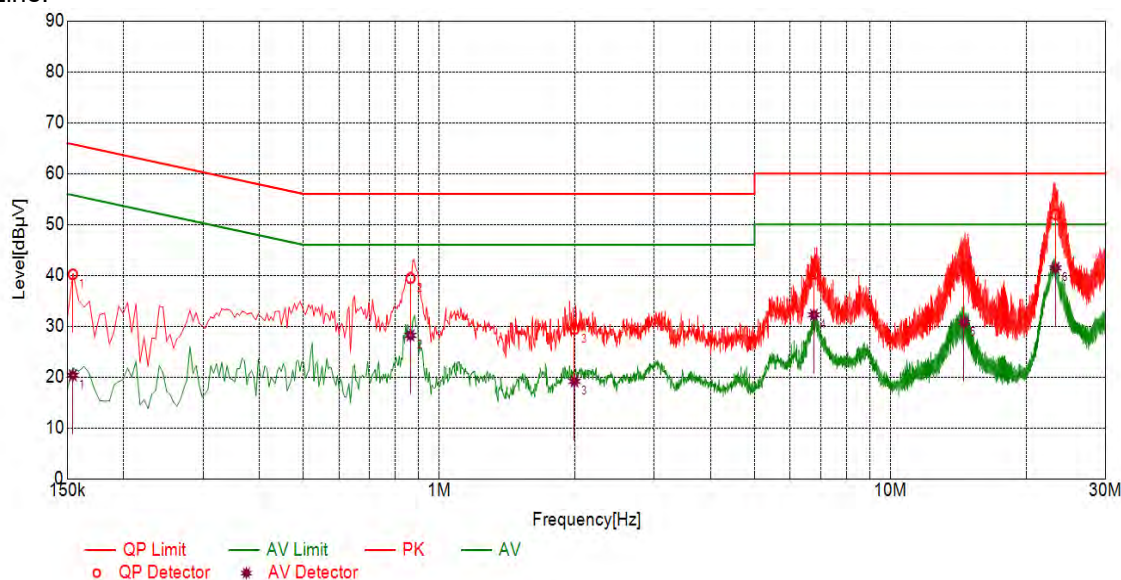
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Measurement Data

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]	Type
1	0.1543	10.10	40.21	65.76	25.55	20.35	55.76	35.41	L
2	0.8642	10.10	39.43	56.00	16.57	28.19	46.00	17.81	L
3	1.9954	10.10	29.41	56.00	26.59	19.15	46.00	26.85	L
4	6.7701	10.10	40.27	60.00	19.73	32.21	50.00	17.79	L
5	14.5634	10.11	41.49	60.00	18.51	30.72	50.00	19.28	L
6	23.2267	10.11	51.97	60.00	8.03	41.45	50.00	8.55	L

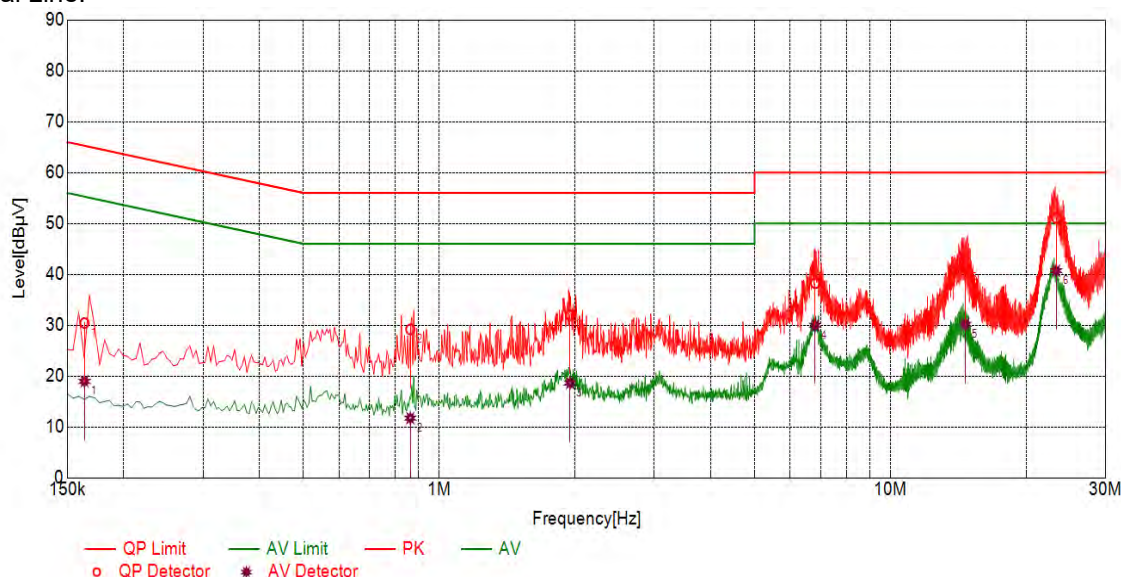


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Neutral Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1638	10.10	30.44	65.27	34.83	18.96	55.27	36.31	N
2	0.8635	10.10	29.17	56.00	26.83	11.73	46.00	34.27	N
3	1.9500	10.10	32.00	56.00	24.00	18.64	46.00	27.36	N
4	6.8152	10.10	38.26	60.00	21.74	30.00	50.00	20.00	N
5	14.6619	10.11	41.23	60.00	18.77	30.19	50.00	19.81	N
6	23.3084	10.11	51.07	60.00	8.93	40.71	50.00	9.29	N

Remarks:

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



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4.3 Duty Cycle

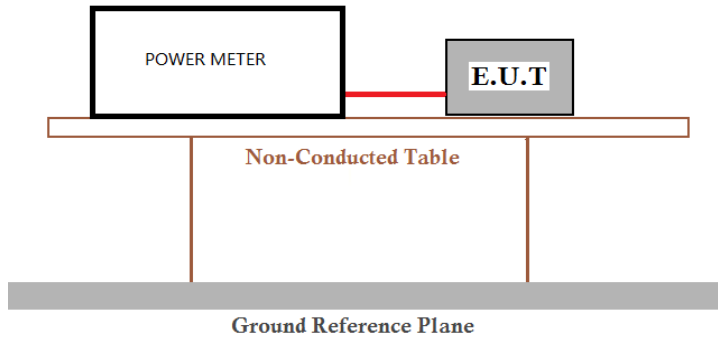
The detailed test data see: **Appendix**



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4.4 Conducted Output Power

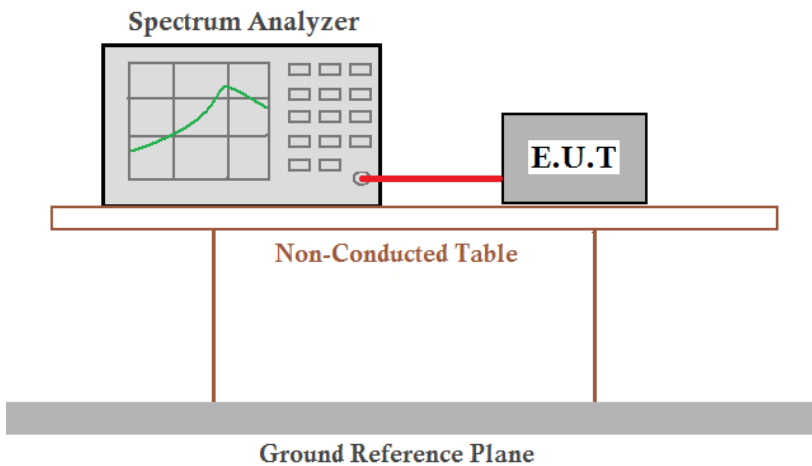
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate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

The detailed test data see: **Appendix**



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass

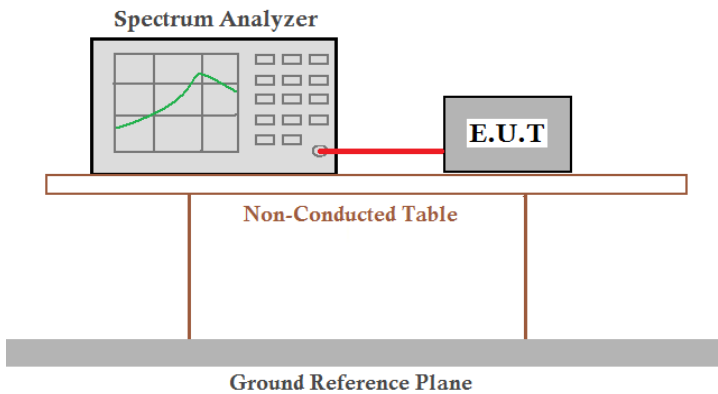
The detailed test data see: **Appendix**



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4.6 Power Spectral Density

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

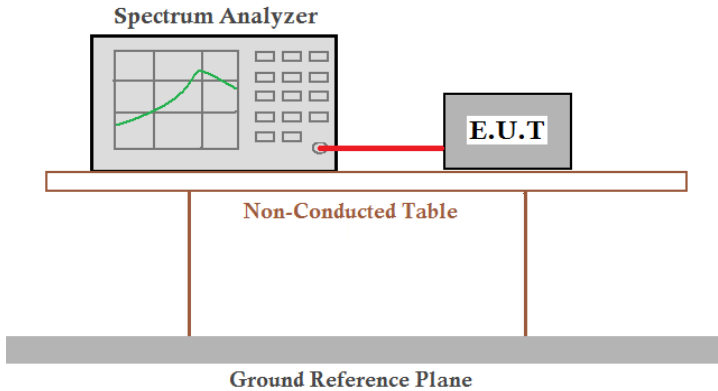
The detailed test data see: **Appendix**



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4.7 Band-edge for RF Conducted Emissions

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

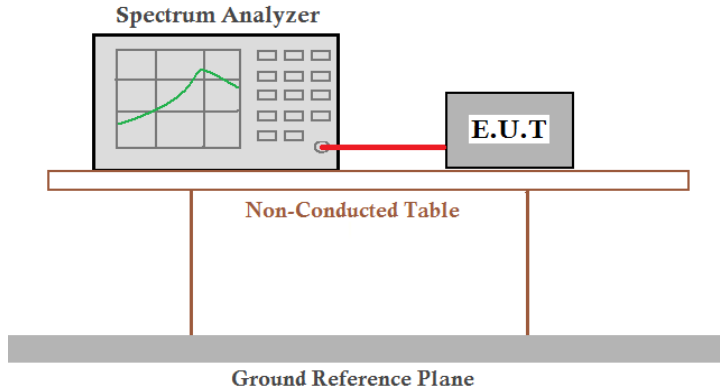
The detailed test data see: **Appendix**



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4.8 RF Conducted Spurious Emissions

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

The detailed test data see: **Appendix**



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Limit:	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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Test Setup:

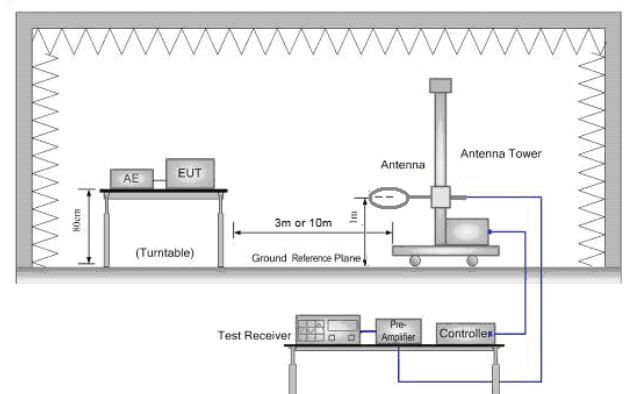


Figure 1. Below 30MHz

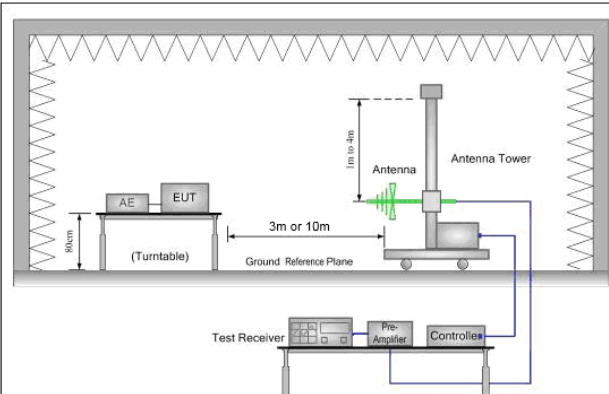


Figure 2. 30MHz to 1GHz

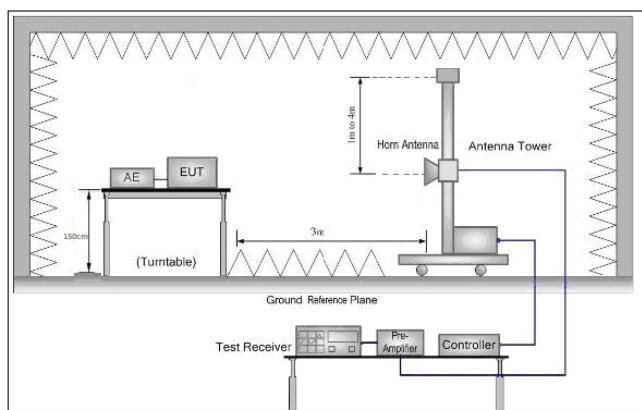


Figure 3. Above 1 GHz

Test Procedure:

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



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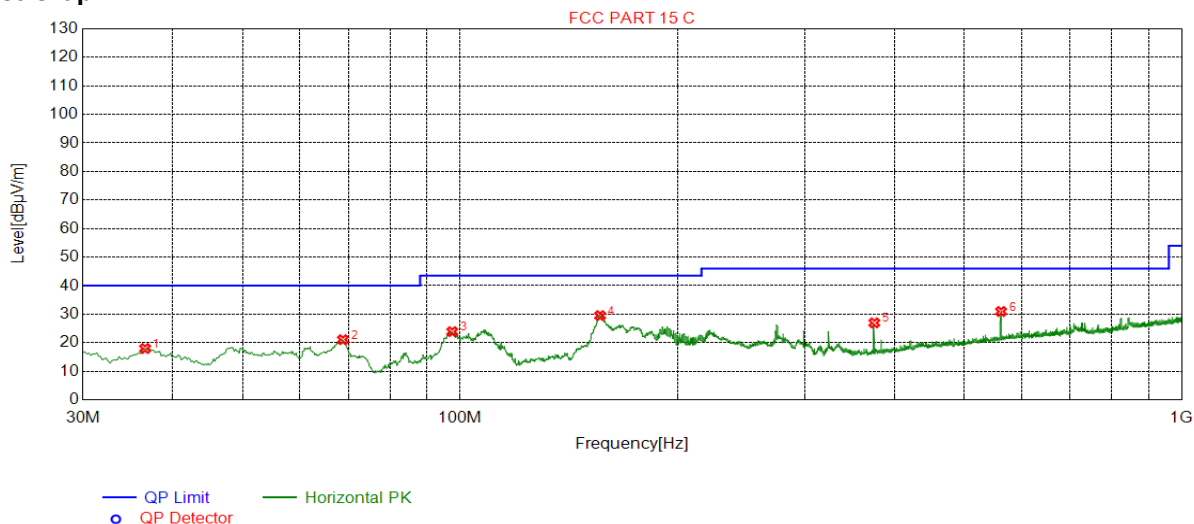
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4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.5973	17.99	40.00	22.01	227	260	Horizontal
2	68.8078	21.09	40.00	18.91	209	231	Horizontal
3	97.5255	23.91	43.50	19.59	247	222	Horizontal
4	156.3193	29.53	43.50	13.97	142	276	Horizontal
5	375.0010	26.98	46.00	19.02	119	17	Horizontal
6	562.0544	30.97	46.00	15.03	212	305	Horizontal

Final Data List

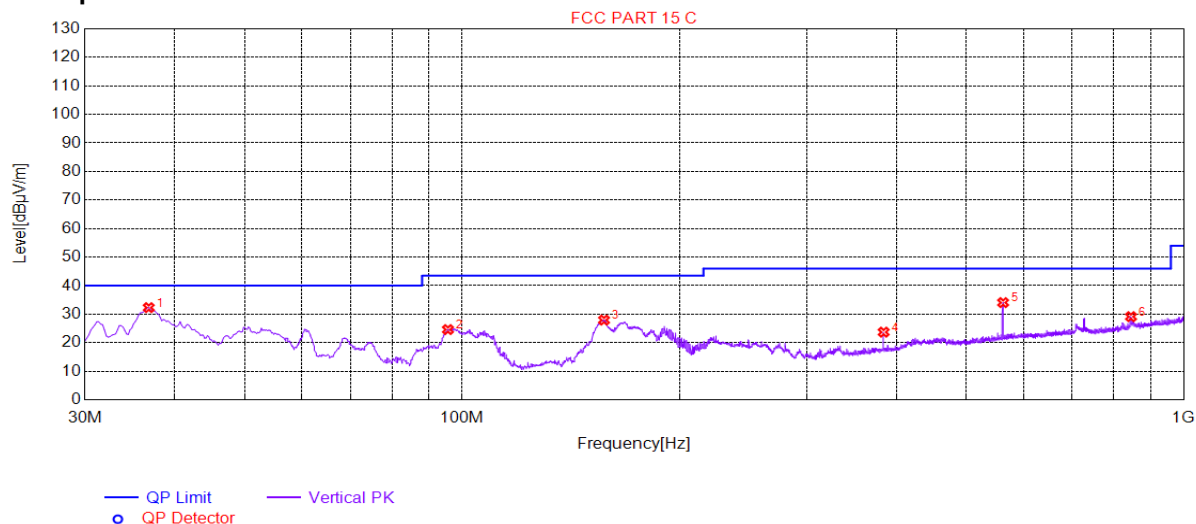


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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7914	32.32	40.00	7.68	291	331	Vertical
2	95.5851	24.63	43.50	18.87	175	103	Vertical
3	157.2895	27.96	43.50	15.54	157	162	Vertical
4	383.9268	23.73	46.00	22.27	292	104	Vertical
5	562.0544	34.08	46.00	11.92	260	28	Vertical
6	845.3511	29.16	46.00	16.84	199	20	Vertical

Final Data List



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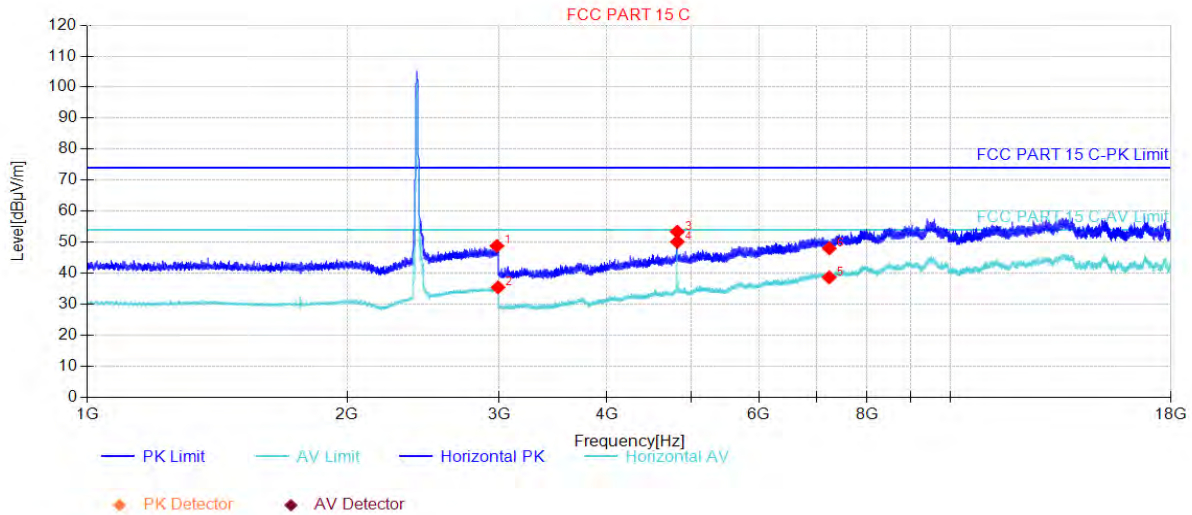
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4.9.2 Transmitter emission above 1GHz

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	2981.998	48.78	7.33	74.00	25.22	192	Horizontal
2	2991.199	35.40	7.37	54.00	18.60	122	Horizontal
3	4824.060	53.38	-10.56	74.00	20.62	182	Horizontal
4	4824.560	49.82	-10.56	54.00	4.18	171	Horizontal
5	7236.000	38.63	-2.59	54.00	15.37	153	Horizontal
6	7236.000	48.00	-2.59	74.00	26.00	169	Horizontal

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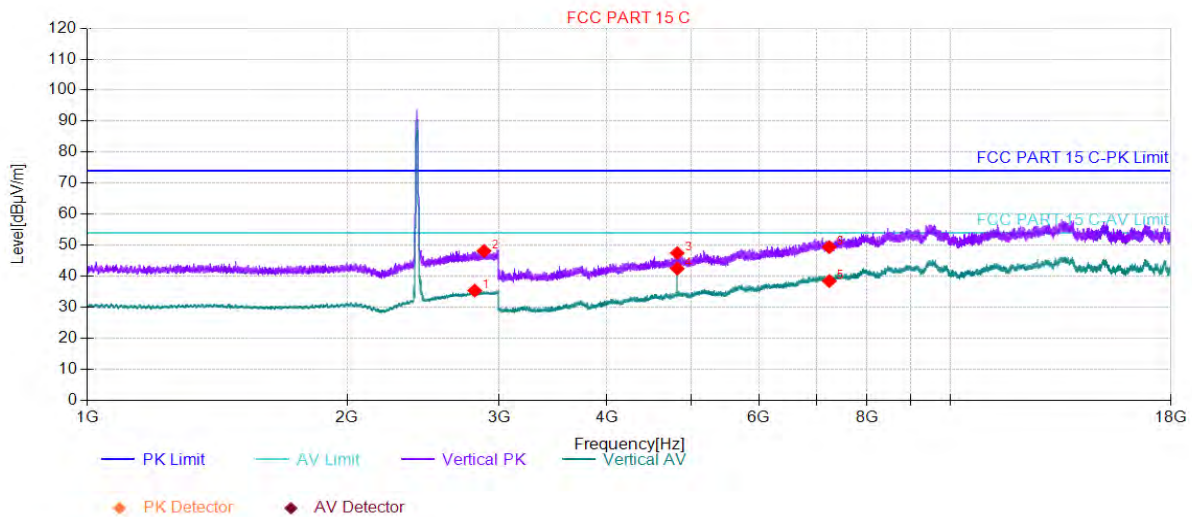
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4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2810.581	35.34	6.75	54.00	18.66	255	Vertical
2	2881.388	48.12	6.91	74.00	25.88	280	Vertical
3	4824.060	47.45	-10.56	74.00	26.55	254	Vertical
4	4824.560	42.46	-10.56	54.00	11.54	203	Vertical
5	7236.000	38.43	-2.59	54.00	15.57	287	Vertical
6	7236.000	49.36	-2.59	74.00	24.64	283	Vertical

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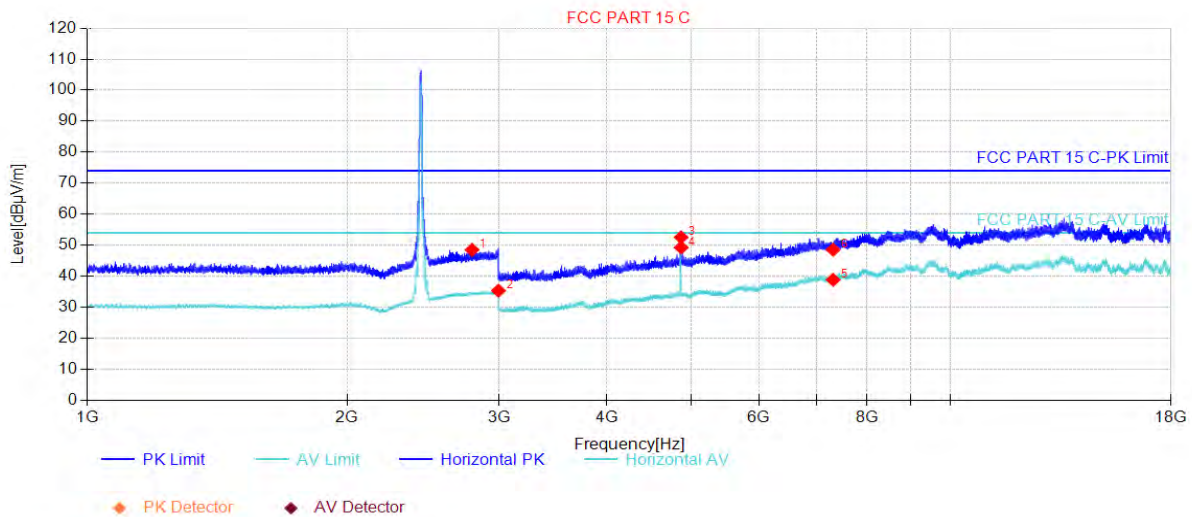
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4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2790.379	48.49	6.63	74.00	25.51	175	Horizontal
2	2993.799	35.32	7.38	54.00	18.68	178	Horizontal
3	4874.062	52.53	-10.40	74.00	21.47	182	Horizontal
4	4874.562	49.22	-10.40	54.00	4.78	153	Horizontal
5	7311.000	38.83	-2.58	54.00	15.17	136	Horizontal
6	7311.000	48.52	-2.58	74.00	25.48	177	Horizontal

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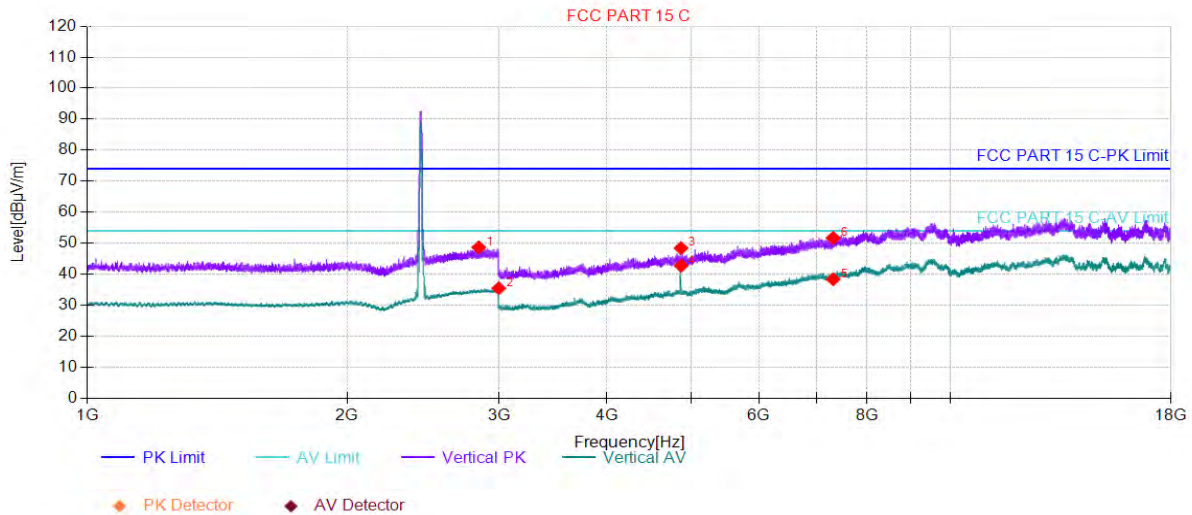
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4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2841.184	48.66	6.82	74.00	25.34	278	Vertical
2	2996.799	35.43	7.40	54.00	18.57	263	Vertical
3	4873.562	48.40	-10.40	74.00	25.60	285	Vertical
4	4874.562	42.71	-10.40	54.00	11.29	211	Vertical
5	7311.000	38.35	-2.58	54.00	15.65	250	Vertical
6	7311.000	51.67	-2.58	74.00	22.33	268	Vertical

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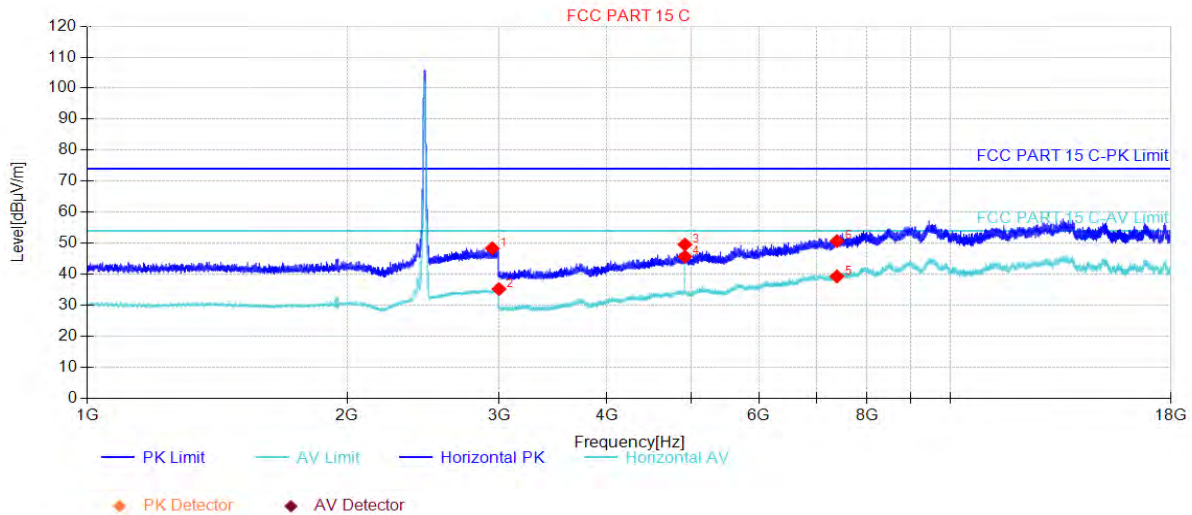
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4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2945.194	48.35	7.16	74.00	25.65	178	Horizontal
2	2998.599	35.21	7.40	54.00	18.79	186	Horizontal
3	4924.064	49.57	-10.22	74.00	24.43	187	Horizontal
4	4924.564	45.66	-10.22	54.00	8.34	153	Horizontal
5	7386.000	39.26	-2.06	54.00	14.74	157	Horizontal
6	7386.000	50.68	-2.06	74.00	23.32	182	Horizontal

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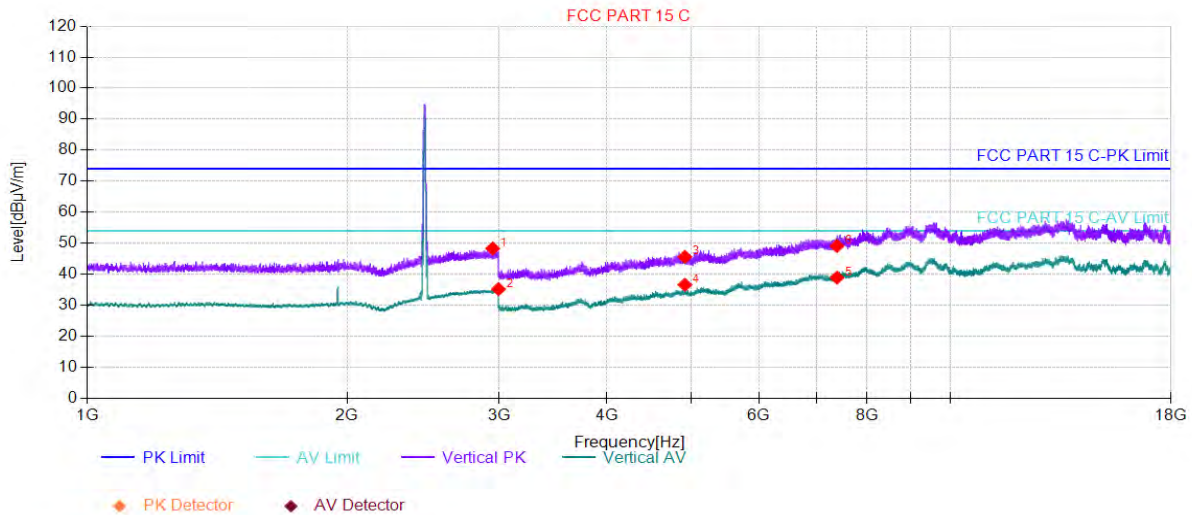
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4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2948.994	48.30	7.18	74.00	25.70	278	Vertical
2	2994.799	35.18	7.39	54.00	18.82	286	Vertical
3	4924.000	45.57	-10.22	74.00	28.43	386	Vertical
4	4924.000	36.56	-10.22	54.00	17.44	257	Vertical
5	7386.000	38.88	-2.06	54.00	15.12	203	Vertical
6	7386.000	49.08	-2.06	74.00	24.92	244	Vertical

Final Data List

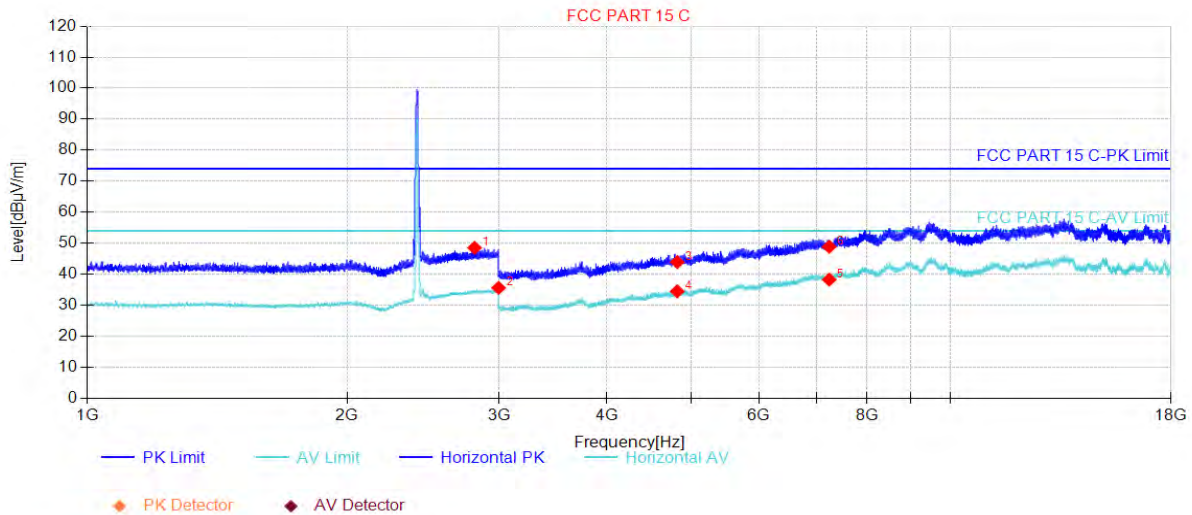


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4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2809.380	48.49	6.75	74.00	25.51	172	Horizontal
2	2995.599	35.56	7.39	54.00	18.44	153	Horizontal
3	4824.000	43.88	-10.56	74.00	30.12	173	Horizontal
4	4824.000	34.45	-10.56	54.00	19.55	163	Horizontal
5	7236.000	38.24	-2.59	54.00	15.76	152	Horizontal
6	7236.000	48.85	-2.59	74.00	25.15	187	Horizontal

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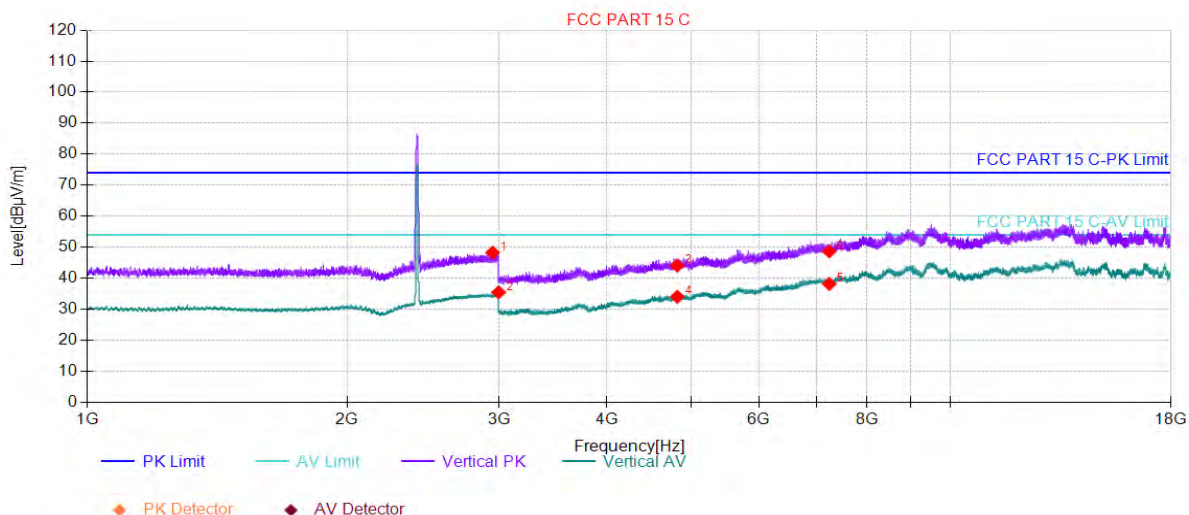
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4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2948.594	48.27	7.17	74.00	25.73	356	Vertical
2	2995.799	35.41	7.39	54.00	18.59	263	Vertical
3	4824.000	44.06	-10.56	74.00	29.94	386	Vertical
4	4824.000	33.99	-10.56	54.00	20.01	284	Vertical
5	7236.000	38.13	-2.59	54.00	15.87	233	Vertical
6	7236.000	48.62	-2.59	74.00	25.38	261	Vertical

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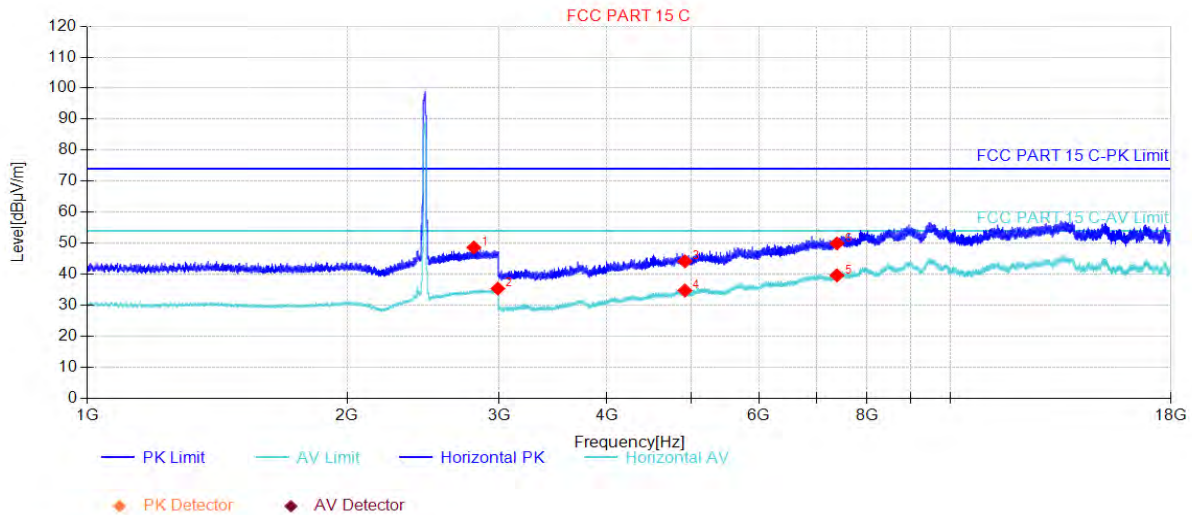
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4.9.2.9 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2804.380	48.59	6.74	74.00	25.41	106	Horizontal
2	2989.398	35.35	7.36	54.00	18.65	128	Horizontal
3	4924.000	44.15	-10.22	74.00	29.85	263	Horizontal
4	4924.000	34.72	-10.22	54.00	19.28	156	Horizontal
5	7386.000	39.60	-2.06	54.00	14.40	141	Horizontal
6	7386.000	49.91	-2.06	74.00	24.09	187	Horizontal

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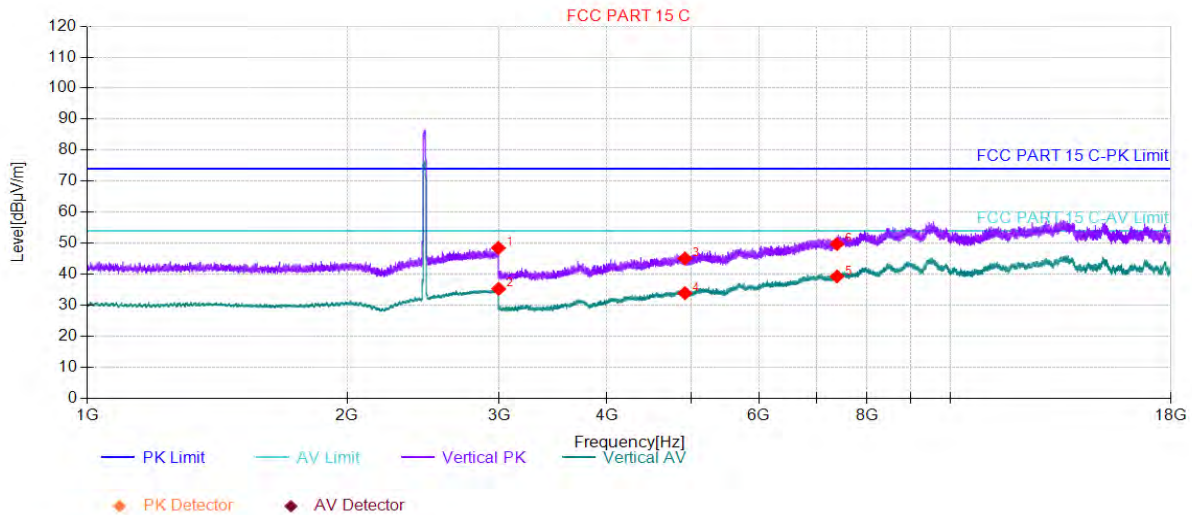
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4.9.2.10 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.599	48.45	7.38	74.00	25.55	256	Vertical
2	2995.999	35.27	7.39	54.00	18.73	172	Vertical
3	4924.000	45.07	-10.22	74.00	28.93	218	Vertical
4	4924.000	33.88	-10.22	54.00	20.12	286	Vertical
5	7386.000	39.24	-2.06	54.00	14.76	175	Vertical
6	7386.000	49.74	-2.06	74.00	24.26	198	Vertical

Final Data List



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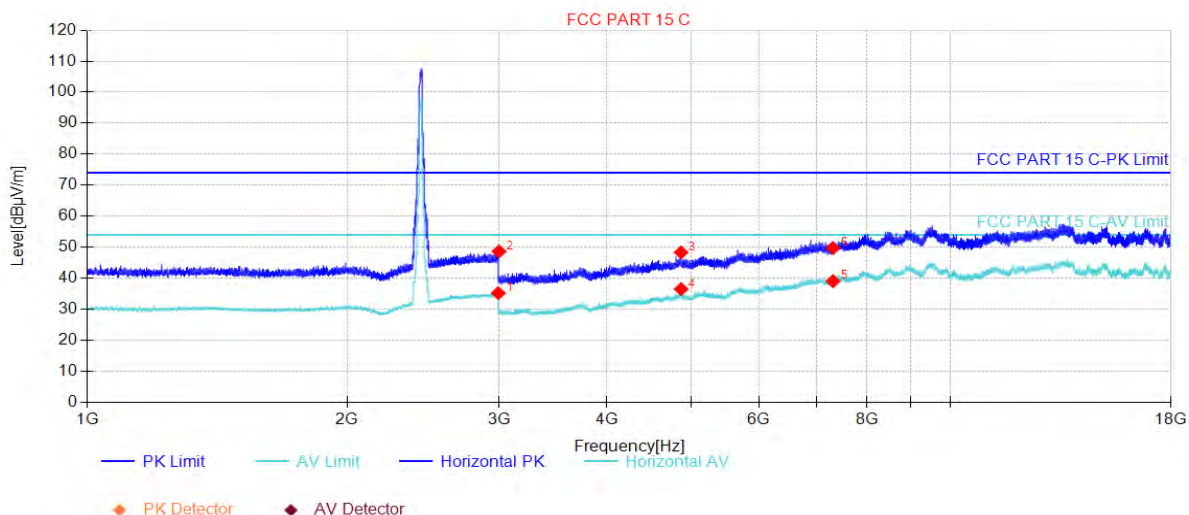
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4.9.2.11

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	2993.599	35.17	7.38	54.00	18.83	183	Horizontal
2	2998.999	48.61	7.41	74.00	25.39	156	Horizontal
3	4874.000	48.33	-10.40	74.00	25.67	183	Horizontal
4	4874.000	36.46	-10.40	54.00	17.54	162	Horizontal
5	7311.000	39.04	-2.58	54.00	14.96	153	Horizontal
6	7311.000	49.73	-2.58	74.00	24.27	174	Horizontal

Final Data List



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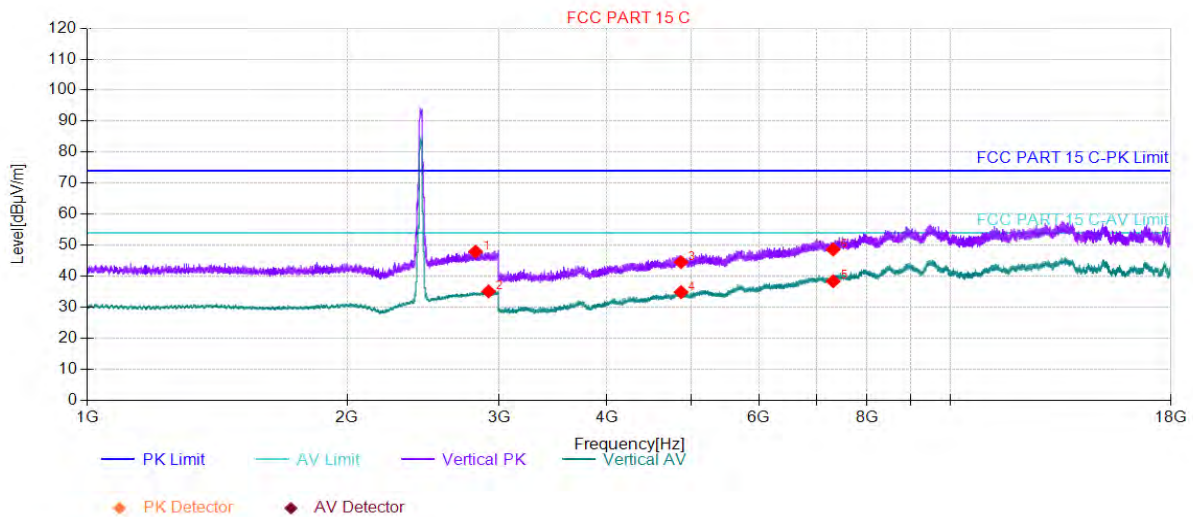
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4.9.2.12 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2816.981	47.89	6.77	74.00	26.11	307	Vertical
2	2916.591	35.08	7.03	54.00	18.92	284	Vertical
3	4874.000	44.52	-10.40	74.00	29.48	266	Vertical
4	4874.000	34.84	-10.40	54.00	19.16	229	Vertical
5	7311.000	38.36	-2.58	54.00	15.64	212	Vertical
6	7311.000	48.57	-2.58	74.00	25.43	251	Vertical

Final Data List



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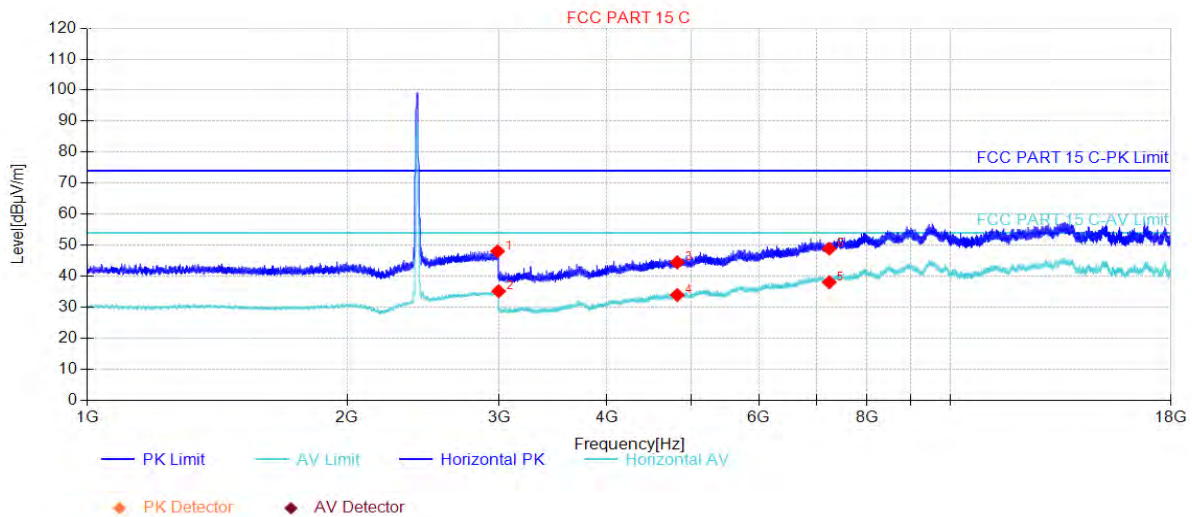
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4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.398	48.02	7.35	74.00	25.98	183	Horizontal
2	2995.999	35.16	7.39	54.00	18.84	187	Horizontal
3	4824.000	44.44	-10.56	74.00	29.56	152	Horizontal
4	4824.000	33.90	-10.56	54.00	20.10	172	Horizontal
5	7236.000	38.04	-2.59	54.00	15.96	163	Horizontal
6	7236.000	48.86	-2.59	74.00	25.14	185	Horizontal

Final Data List

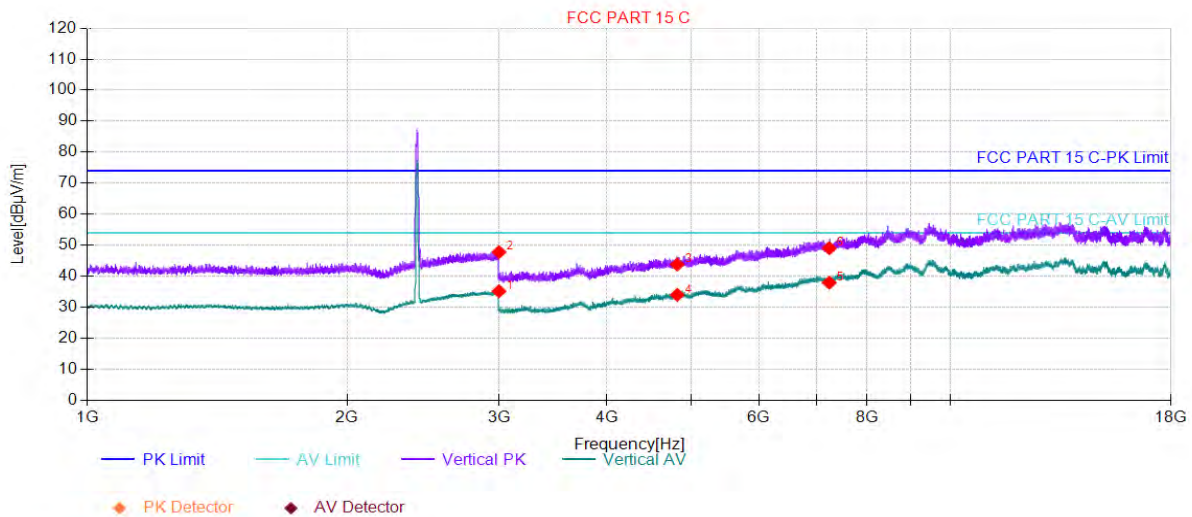


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4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2998.599	35.13	7.40	54.00	18.87	283	Vertical
2	2998.999	47.77	7.41	74.00	26.23	263	Vertical
3	4824.000	43.75	-10.56	74.00	30.25	287	Vertical
4	4824.000	33.95	-10.56	54.00	20.05	268	Vertical
5	7236.000	37.90	-2.59	54.00	16.10	238	Vertical
6	7236.000	49.02	-2.59	74.00	24.98	278	Vertical

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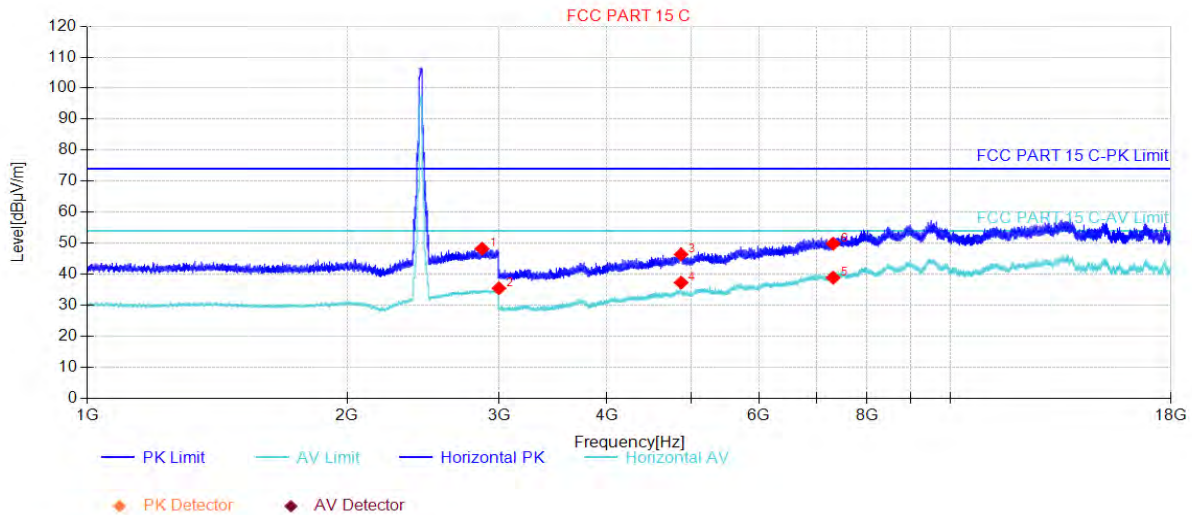
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4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2866.586	48.23	6.88	74.00	25.77	172	Horizontal
2	2997.799	35.43	7.40	54.00	18.57	153	Horizontal
3	4874.000	46.37	-10.40	74.00	27.63	174	Horizontal
4	4874.000	37.27	-10.40	54.00	16.73	156	Horizontal
5	7311.000	38.86	-2.58	54.00	15.14	152	Horizontal
6	7311.000	49.82	-2.58	74.00	24.18	136	Horizontal

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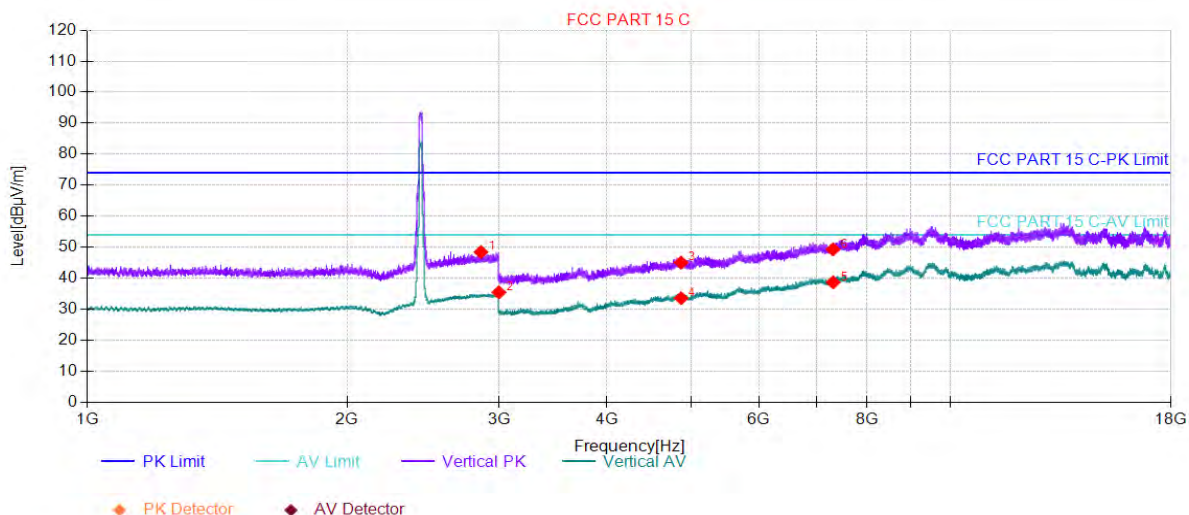
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4.9.2.16

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	2858.185	48.41	6.86	74.00	25.59	365	Vertical
2	2997.599	35.42	7.40	54.00	18.58	272	Vertical
3	4874.000	45.02	-10.40	74.00	28.98	284	Vertical
4	4874.000	33.52	-10.40	54.00	20.48	245	Vertical
5	7311.000	38.64	-2.58	54.00	15.36	222	Vertical
6	7311.000	49.30	-2.58	74.00	24.70	253	Vertical

Final Data List

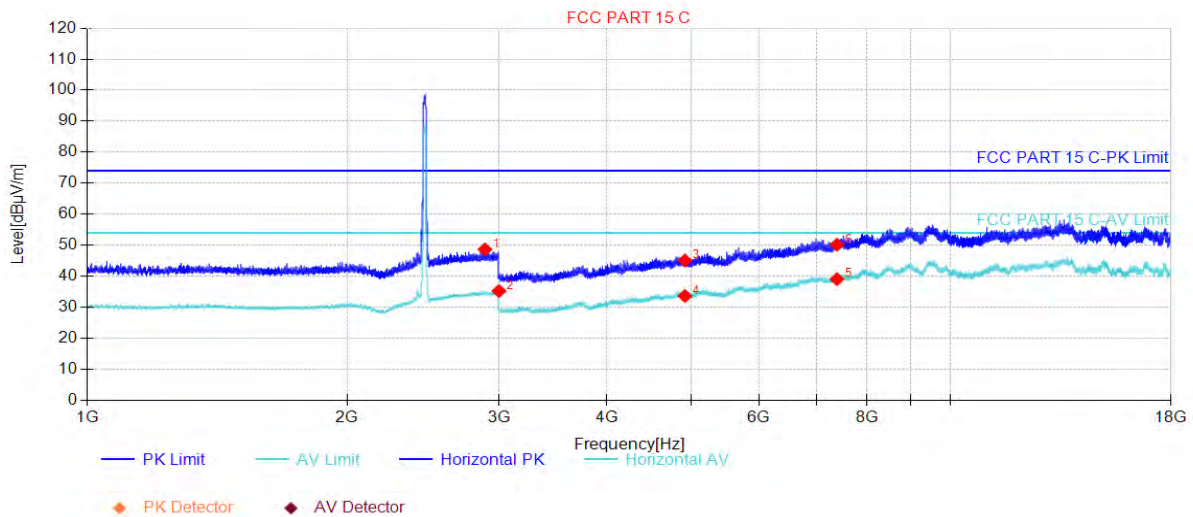


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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2888.388	48.65	6.92	74.00	25.35	175	Horizontal
2	2998.799	35.21	7.40	54.00	18.79	153	Horizontal
3	4924.000	45.06	-10.22	74.00	28.94	166	Horizontal
4	4924.000	33.59	-10.22	54.00	20.41	123	Horizontal
5	7386.000	39.04	-2.06	54.00	14.96	133	Horizontal
6	7386.000	50.15	-2.06	74.00	23.85	185	Horizontal

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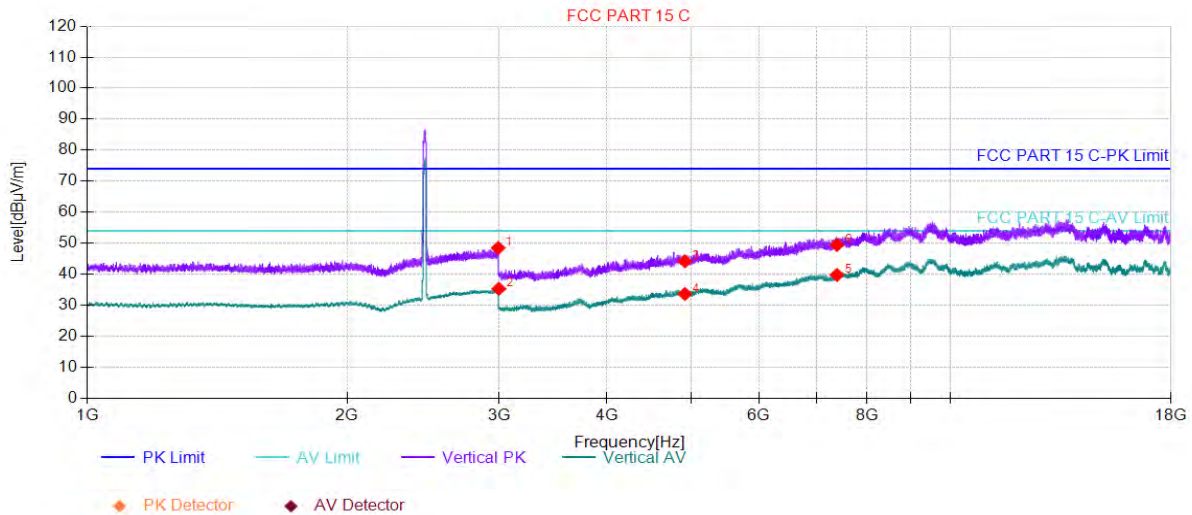
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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.799	48.45	7.37	74.00	25.55	338	Vertical
2	2997.199	35.28	7.40	54.00	18.72	275	Vertical
3	4924.000	44.15	-10.22	74.00	29.85	222	Vertical
4	4924.000	33.60	-10.22	54.00	20.40	295	Vertical
5	7386.000	39.72	-2.06	54.00	14.28	206	Vertical
6	7386.000	49.44	-2.06	74.00	24.56	211	Vertical

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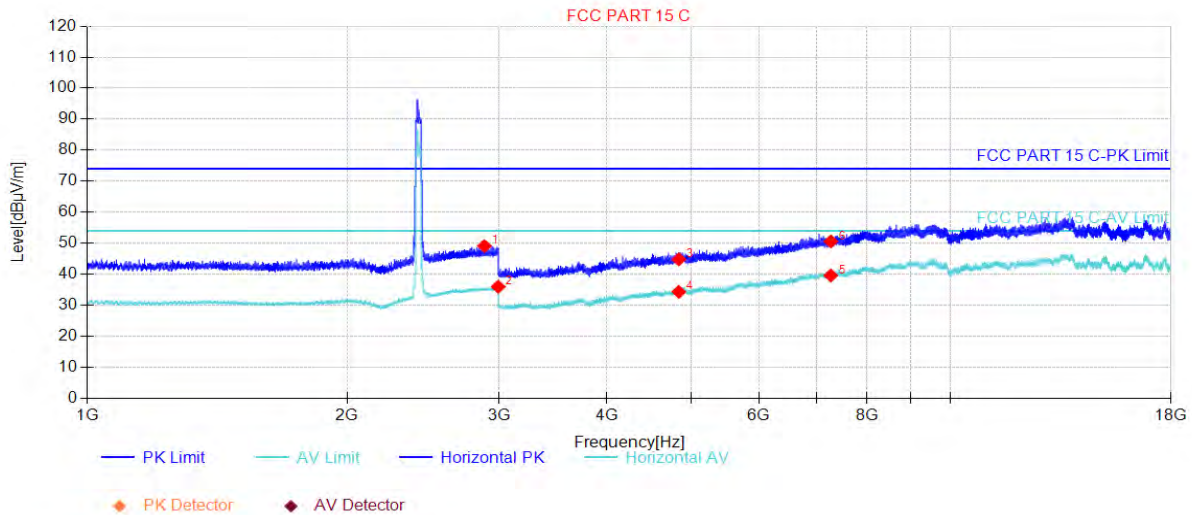
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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2884.388	49.09	6.92	74.00	24.91	115	Horizontal
2	2991.999	35.94	7.37	54.00	18.06	152	Horizontal
3	4844.000	44.77	-10.50	74.00	29.23	183	Horizontal
4	4844.000	34.29	-10.50	54.00	19.71	198	Horizontal
5	7266.000	39.58	-2.62	54.00	14.42	185	Horizontal
6	7266.000	50.56	-2.62	74.00	23.44	175	Horizontal

Final Data List



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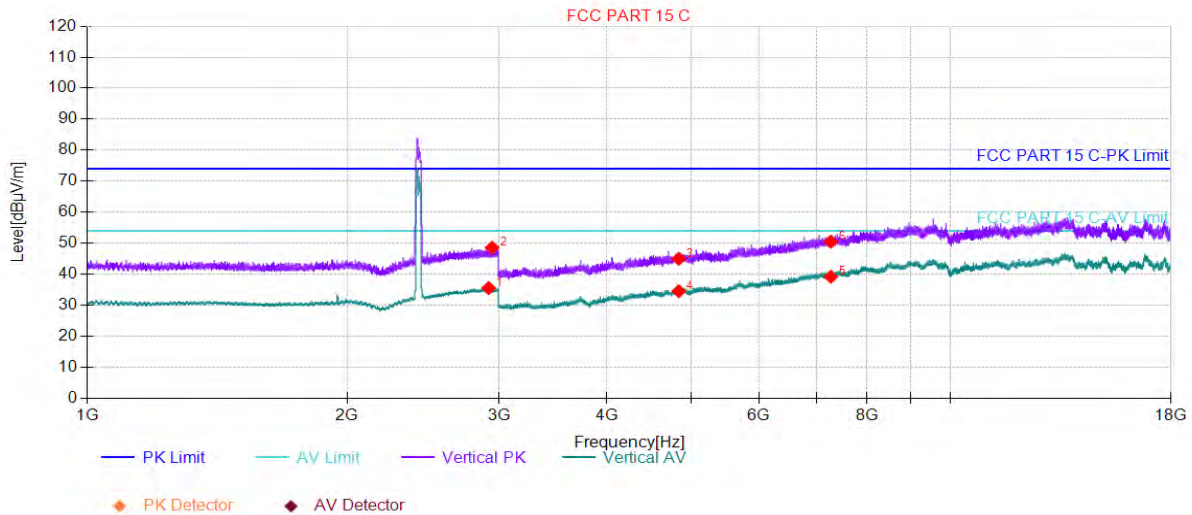
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4.9.2.20

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	2917.791	35.50	7.03	54.00	18.50	286	Vertical
2	2944.194	48.57	7.15	74.00	25.43	274	Vertical
3	4844.000	44.93	-10.50	74.00	29.07	256	Vertical
4	4844.000	34.49	-10.50	54.00	19.51	255	Vertical
5	7266.000	39.15	-2.62	54.00	14.85	262	Vertical
6	7266.000	50.50	-2.62	74.00	23.50	285	Vertical

Final Data List



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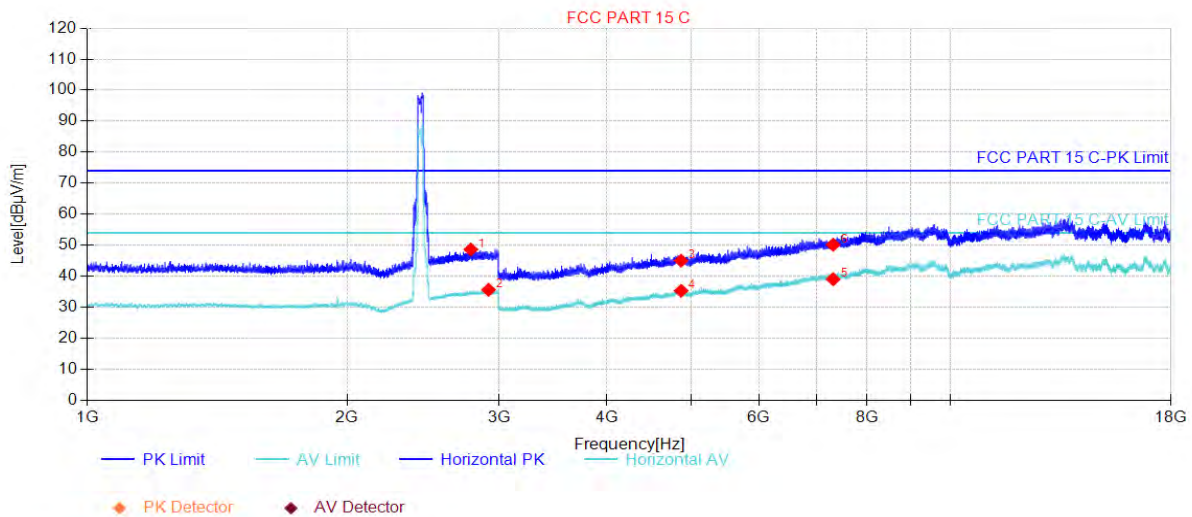
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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2781.778	48.62	6.54	74.00	25.38	133	Horizontal
2	2916.791	35.57	7.03	54.00	18.43	154	Horizontal
3	4874.000	44.99	-10.40	74.00	29.01	175	Horizontal
4	4874.000	35.29	-10.40	54.00	18.71	173	Horizontal
5	7311.000	39.01	-2.58	54.00	14.99	152	Horizontal
6	7311.000	50.14	-2.58	74.00	23.86	192	Horizontal

Final Data List

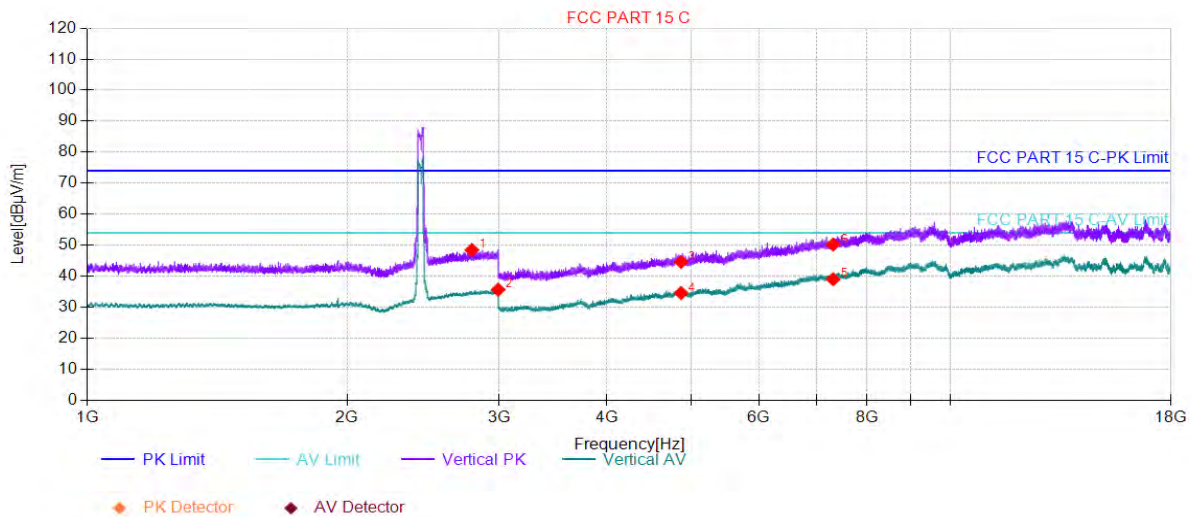


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4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2789.579	48.45	6.62	74.00	25.55	283	Vertical
2	2991.999	35.64	7.37	54.00	18.36	256	Vertical
3	4874.000	44.61	-10.40	74.00	29.39	275	Vertical
4	4874.000	34.55	-10.40	54.00	19.45	262	Vertical
5	7311.000	39.01	-2.58	54.00	14.99	212	Vertical
6	7311.000	50.22	-2.58	74.00	23.78	255	Vertical

Final Data List



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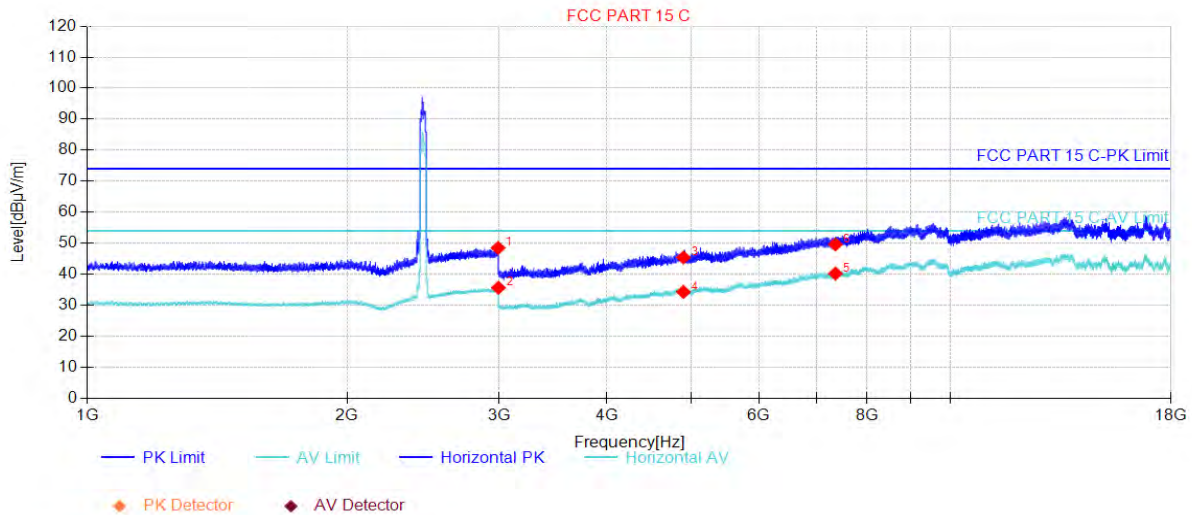
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4.9.2.23

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	2991.399	48.46	7.37	74.00	25.54	172	Horizontal
2	2993.799	35.60	7.38	54.00	18.40	154	Horizontal
3	4904.000	45.38	-10.30	74.00	28.62	132	Horizontal
4	4904.000	34.25	-10.30	54.00	19.75	178	Horizontal
5	7356.000	40.18	-2.27	54.00	13.82	168	Horizontal
6	7356.000	49.61	-2.27	74.00	24.39	127	Horizontal

Final Data List

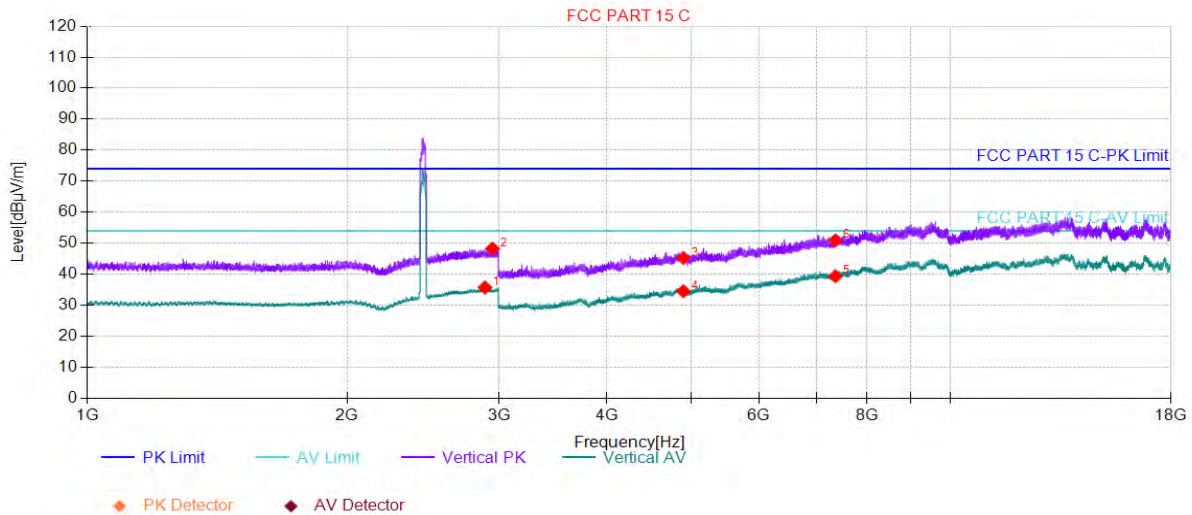


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4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2888.788	35.68	6.93	54.00	18.32	286	Vertical
2	2947.194	48.22	7.17	74.00	25.78	274	Vertical
3	4904.000	45.22	-10.30	74.00	28.78	252	Vertical
4	4904.000	34.48	-10.30	54.00	19.52	222	Vertical
5	7356.000	39.30	-2.27	54.00	14.70	263	Vertical
6	7356.000	50.91	-2.27	74.00	23.09	278	Vertical

Final Data List

Remark:

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



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4.10 Restricted bands around fundamental frequency

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

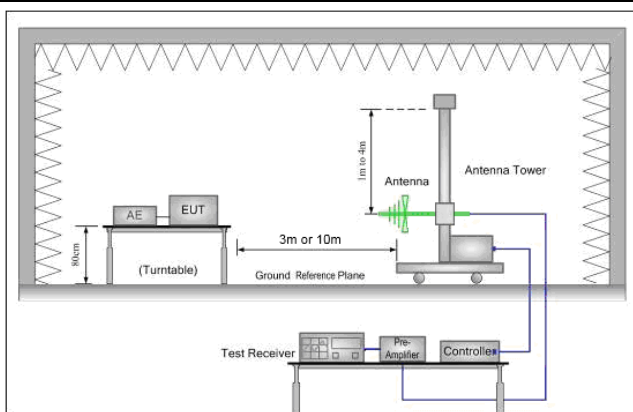


Figure 1. 30MHz to 1GHz

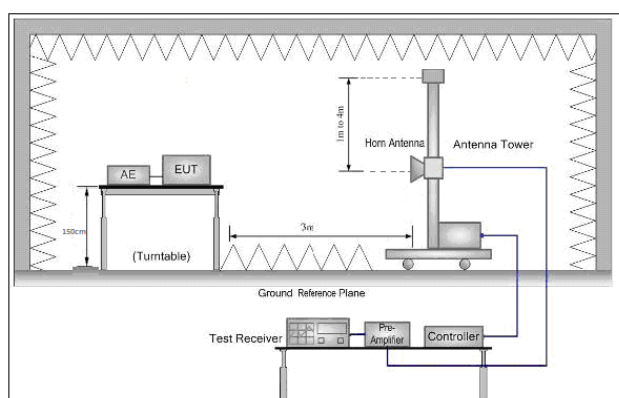


Figure 2. Above 1 GHz

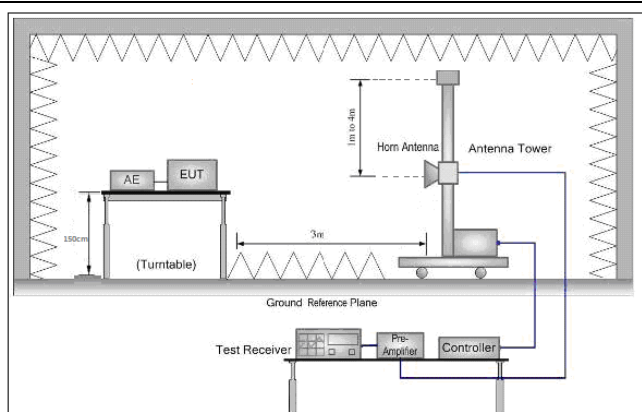


Figure 3. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



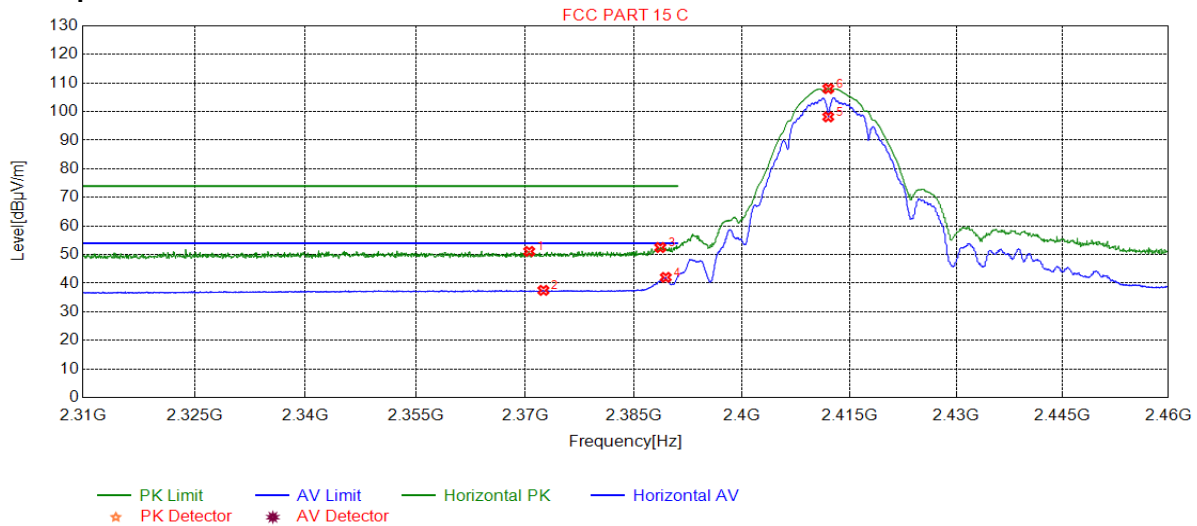
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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.55	51.12	7.79	74.00	22.88	126	232	Horizontal
2	2372.50	37.51	7.79	54.00	16.49	230	303	Horizontal
3	2388.63	52.49	7.77	74.00	21.51	220	330	Horizontal
4	2389.38	42.06	7.77	54.00	11.94	247	319	Horizontal
5	2412.00	98.17	7.81	0.00	-98.17	220	319	Horizontal
6	2412.00	108.06	7.81	0.00	-108.06	135	314	Horizontal

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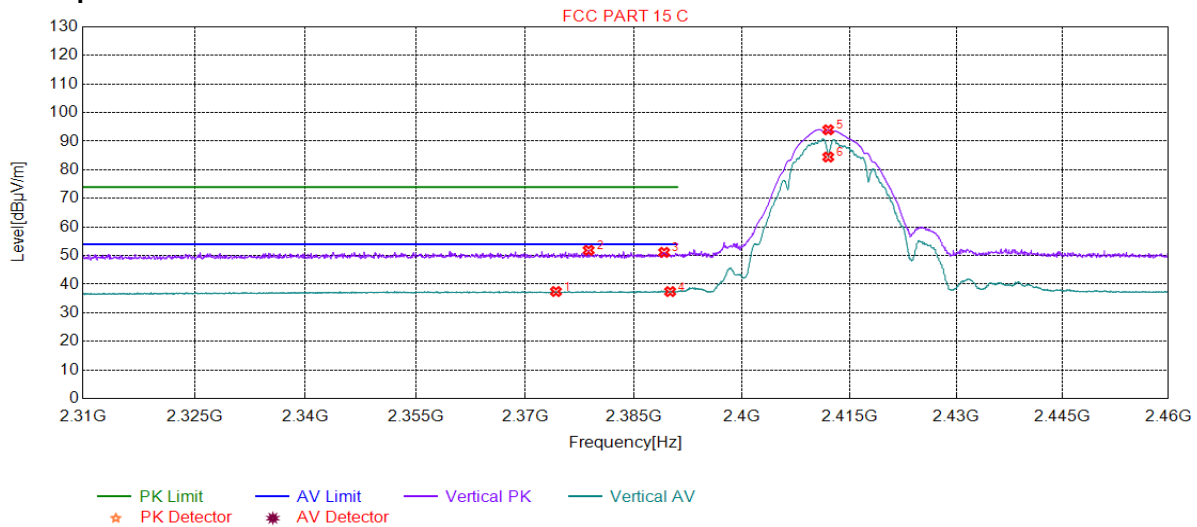
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4.10.1.2

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]	Angle [°]	Polarity
1	2374.23	37.45	7.79	54.00	16.55	253	177	Vertical
2	2378.73	51.87	7.78	74.00	22.13	187	305	Vertical
3	2389.16	51.13	7.77	74.00	22.87	294	138	Vertical
4	2390.00	37.43	7.77	54.00	16.57	281	305	Vertical
5	2412.00	94.00	7.81	0.00	-94.00	190	204	Vertical
6	2412.00	84.48	7.81	0.00	-84.48	221	198	Vertical

Final Data List



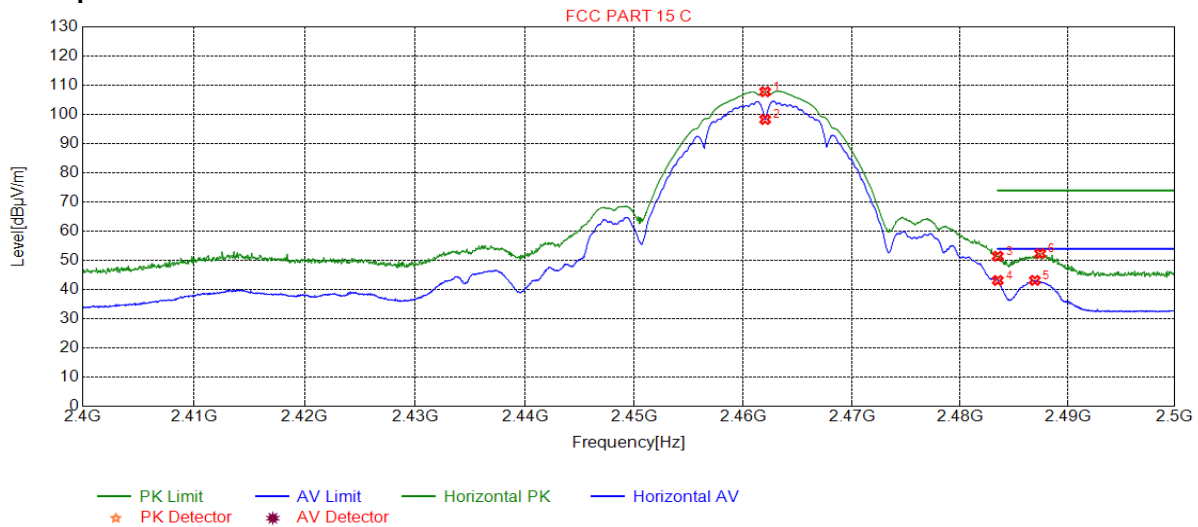
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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.78	7.98	0.00	-107.78	230	254	Horizontal
2	2462.00	98.29	7.98	0.00	-98.29	174	254	Horizontal
3	2483.50	51.47	8.01	74.00	22.53	187	259	Horizontal
4	2483.50	43.17	8.01	54.00	10.83	140	254	Horizontal
5	2486.94	43.20	8.01	54.00	10.80	222	254	Horizontal
6	2487.44	52.35	8.01	74.00	21.65	249	248	Horizontal

Final Data List



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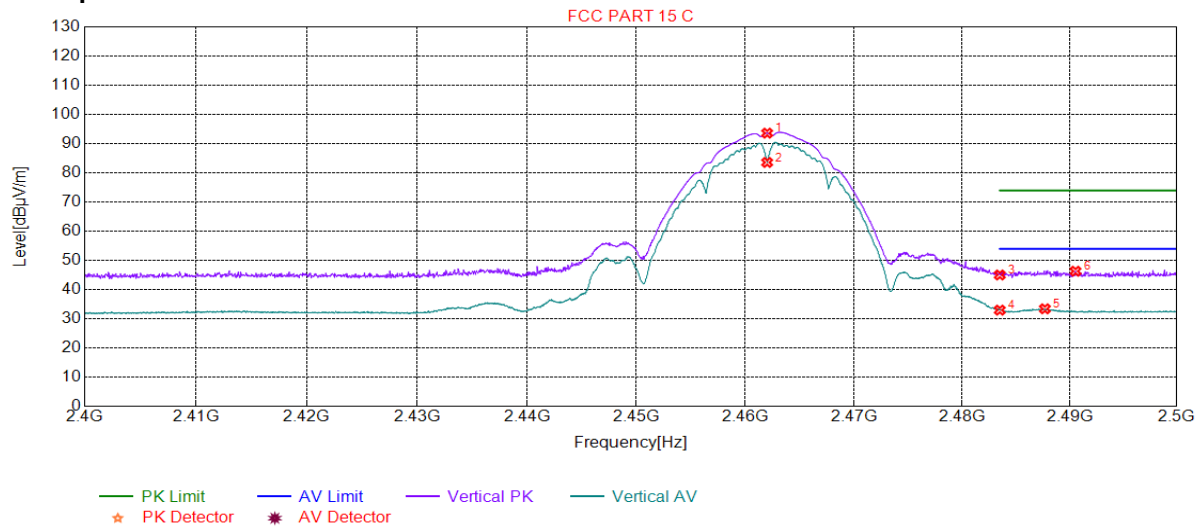
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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.61	7.98	0.00	-93.61	179	35	Vertical
2	2462.00	83.57	7.98	0.00	-83.57	196	35	Vertical
3	2483.50	45.04	8.01	74.00	28.96	230	57	Vertical
4	2483.50	33.01	8.01	54.00	20.99	273	193	Vertical
5	2487.69	33.46	8.02	54.00	20.54	216	360	Vertical
6	2490.54	46.34	8.02	74.00	27.66	256	242	Vertical

Final Data List



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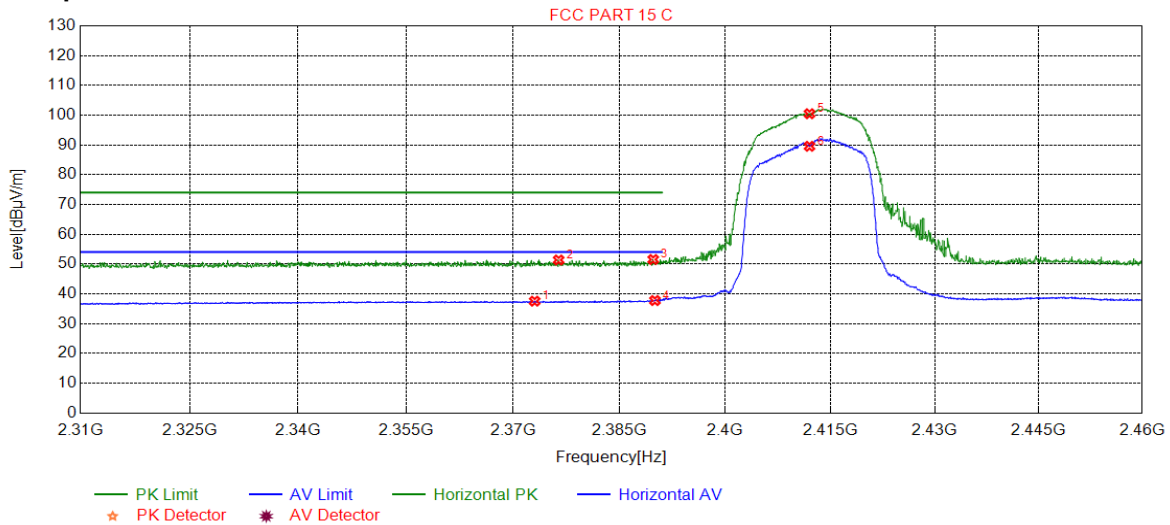
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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.03	37.52	7.79	54.00	16.48	167	167	Horizontal
2	2376.40	51.35	7.78	74.00	22.65	244	346	Horizontal
3	2389.76	51.51	7.77	74.00	22.49	227	151	Horizontal
4	2390.00	37.73	7.77	54.00	16.27	219	320	Horizontal
5	2412.00	100.47	7.81	0.00	-100.47	168	314	Horizontal
6	2412.00	89.53	7.81	0.00	-89.53	156	314	Horizontal

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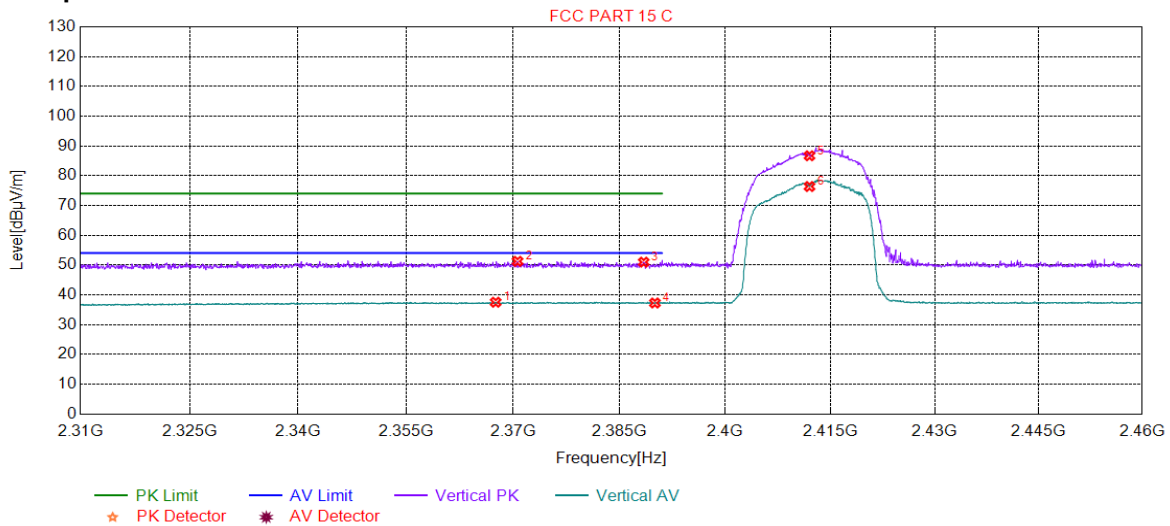
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4.10.1.6

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]	Angle [°]	Polarity
1	2367.55	37.49	7.79	54.00	16.51	256	29	Vertical
2	2370.63	51.23	7.79	74.00	22.77	254	210	Vertical
3	2388.41	50.96	7.77	74.00	23.04	253	100	Vertical
4	2390.00	37.24	7.77	54.00	16.76	150	116	Vertical
5	2412.00	86.68	7.81	0.00	-86.68	208	225	Vertical
6	2412.00	76.36	7.81	0.00	-76.36	268	215	Vertical

Final Data List



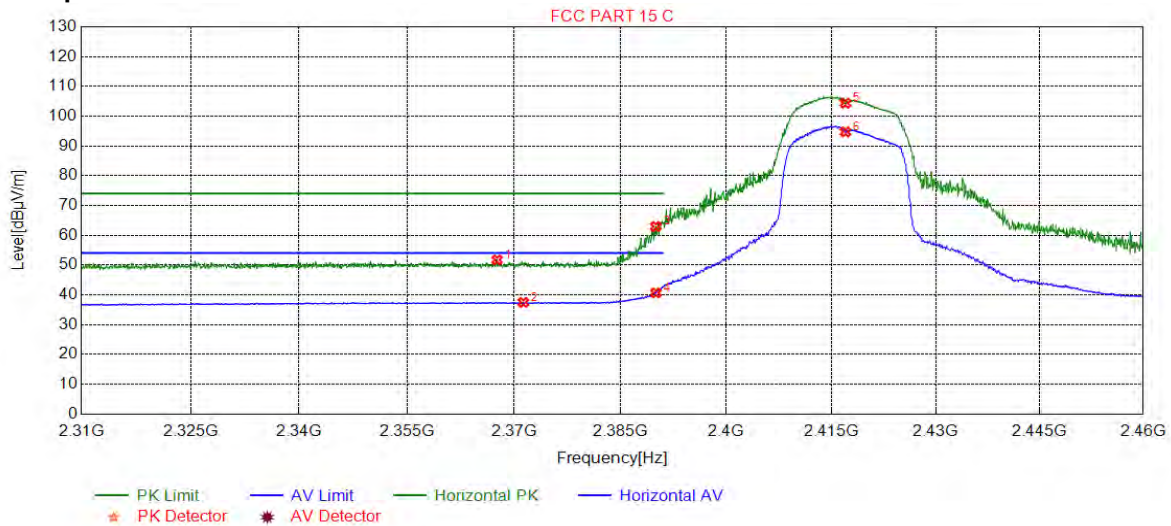
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4.10.1.7 802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.62	51.73	7.79	74.00	22.27	205	68	Horizontal
2	2371.30	37.44	7.79	54.00	16.56	212	320	Horizontal
3	2389.99	62.95	7.77	74.00	11.05	226	183	Horizontal
4	2390.00	40.64	7.77	54.00	13.36	151	270	Horizontal
5	2417.00	104.34	7.83	0.00	-104.34	240	308	Horizontal
6	2417.00	94.69	7.83	0.00	-94.69	224	314	Horizontal

Final Data List



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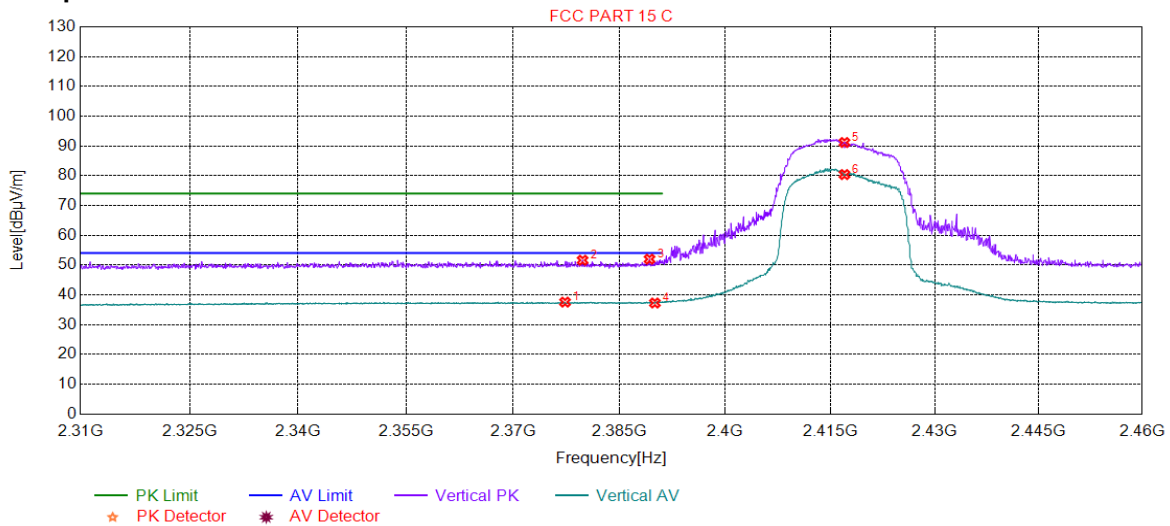
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4.10.1.8 802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.30	37.54	7.78	54.00	16.46	258	236	Vertical
2	2379.78	51.60	7.78	74.00	22.40	278	159	Vertical
3	2389.23	51.96	7.77	74.00	22.04	263	252	Vertical
4	2390.00	37.23	7.77	54.00	16.77	229	301	Vertical
5	2417.00	91.15	7.83	0.00	-91.15	211	14	Vertical
6	2417.00	80.37	7.83	0.00	-80.37	213	14	Vertical

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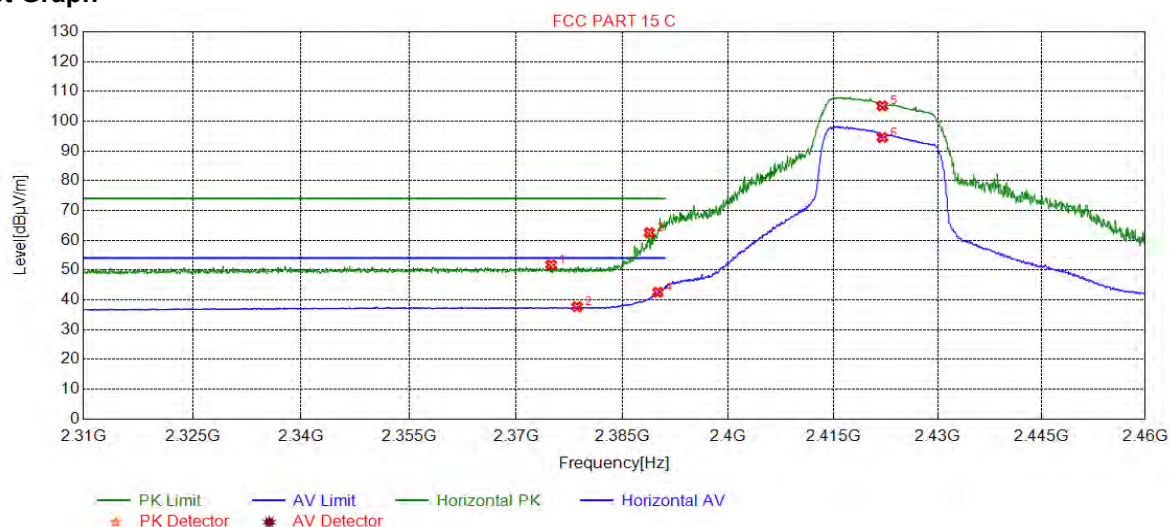
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4.10.1.9

802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.90	51.76	7.79	74.00	22.24	126	198	Horizontal
2	2378.58	37.66	7.78	54.00	16.34	137	297	Horizontal
3	2388.78	62.53	7.77	74.00	11.47	108	302	Horizontal
4	2390.00	42.54	7.77	54.00	11.46	168	308	Horizontal
5	2422.00	105.11	7.85	0.00	-105.11	203	314	Horizontal
6	2422.00	94.51	7.85	0.00	-94.51	121	302	Horizontal

Final Data List

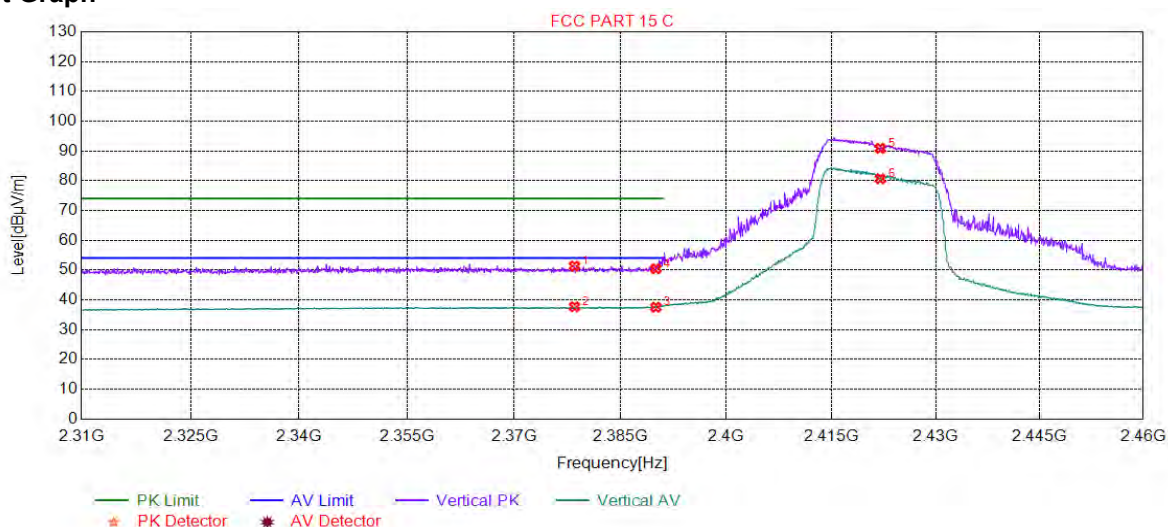


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4.10.1.10 802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.50	51.33	7.78	74.00	22.67	235	90	Vertical
2	2378.50	37.65	7.78	54.00	16.35	269	144	Vertical
3	2390.00	37.49	7.77	54.00	16.51	280	193	Vertical
4	2390.00	50.43	7.77	74.00	23.57	178	182	Vertical
5	2422.00	90.85	7.85	0.00	-90.85	294	166	Vertical
6	2422.00	80.63	7.85	0.00	-80.63	290	177	Vertical

Final Data List



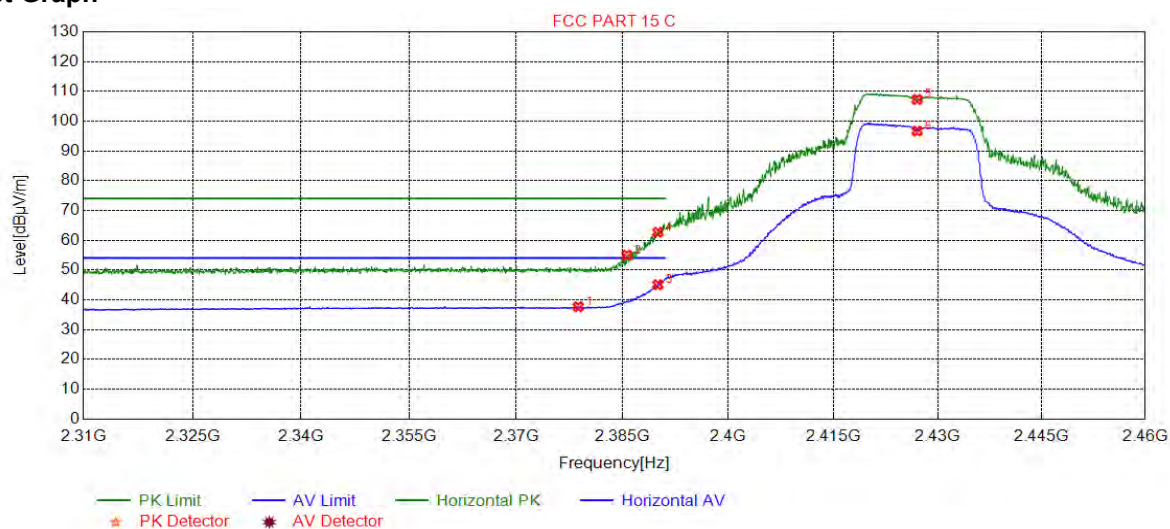
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4.10.1.11

802.11G_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.73	37.66	7.78	54.00	16.34	175	308	Horizontal
2	2385.63	55.02	7.77	74.00	18.98	216	314	Horizontal
3	2390.00	45.07	7.77	54.00	8.93	187	303	Horizontal
4	2390.00	62.65	7.77	74.00	11.35	190	308	Horizontal
5	2427.00	107.29	7.87	0.00	-107.29	222	194	Horizontal
6	2427.00	96.66	7.87	0.00	-96.66	203	254	Horizontal

Final Data List



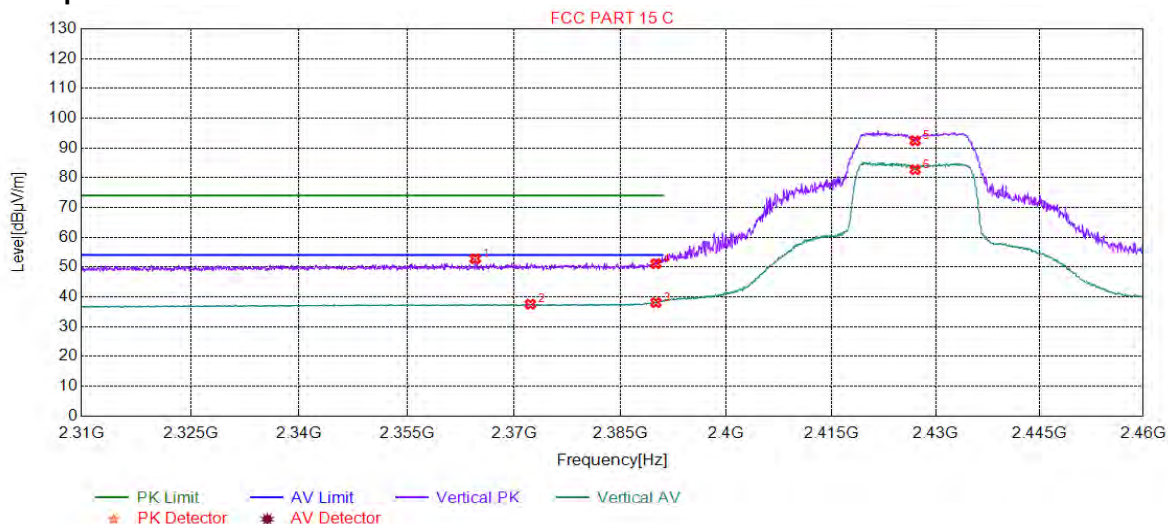
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4.10.1.12

802.11G_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.55	52.78	7.80	74.00	21.22	201	194	Vertical
2	2372.28	37.50	7.79	54.00	16.50	173	184	Vertical
3	2390.00	38.02	7.77	54.00	15.98	161	189	Vertical
4	2390.00	51.08	7.77	74.00	22.92	241	19	Vertical
5	2427.00	92.38	7.87	0.00	-92.38	241	179	Vertical
6	2427.00	82.67	7.87	0.00	-82.67	180	179	Vertical

Final Data List

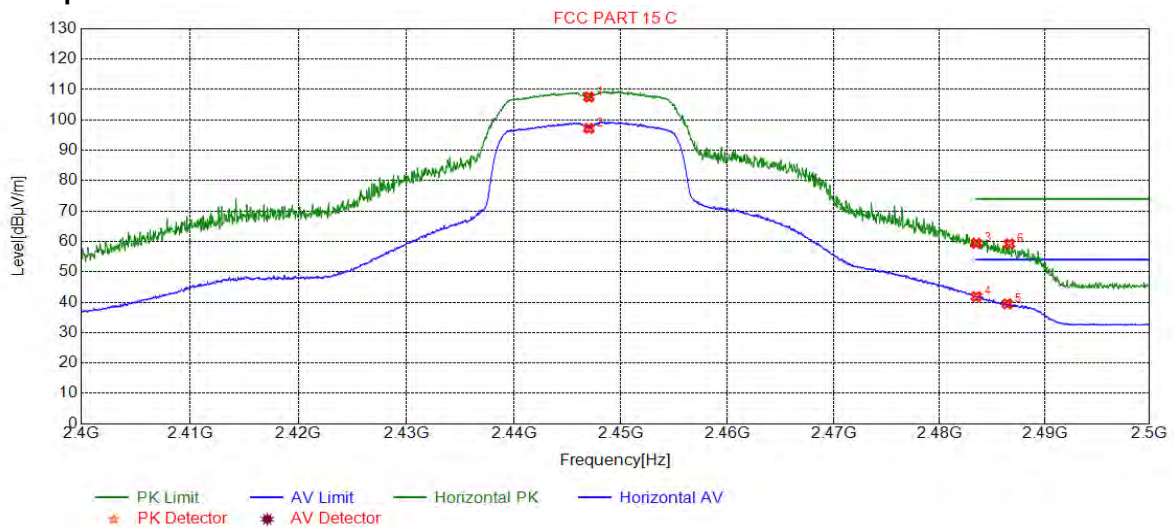


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4.10.1.13 802.11G_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	107.55	7.96	0.00	-107.55	141	297	Horizontal
2	2447.00	97.22	7.96	0.00	-97.22	238	253	Horizontal
3	2483.50	59.41	8.01	74.00	14.59	154	291	Horizontal
4	2483.50	41.85	8.01	54.00	12.15	172	247	Horizontal
5	2486.44	39.46	8.01	54.00	14.54	111	253	Horizontal
6	2486.64	59.22	8.01	74.00	14.78	172	308	Horizontal

Final Data List

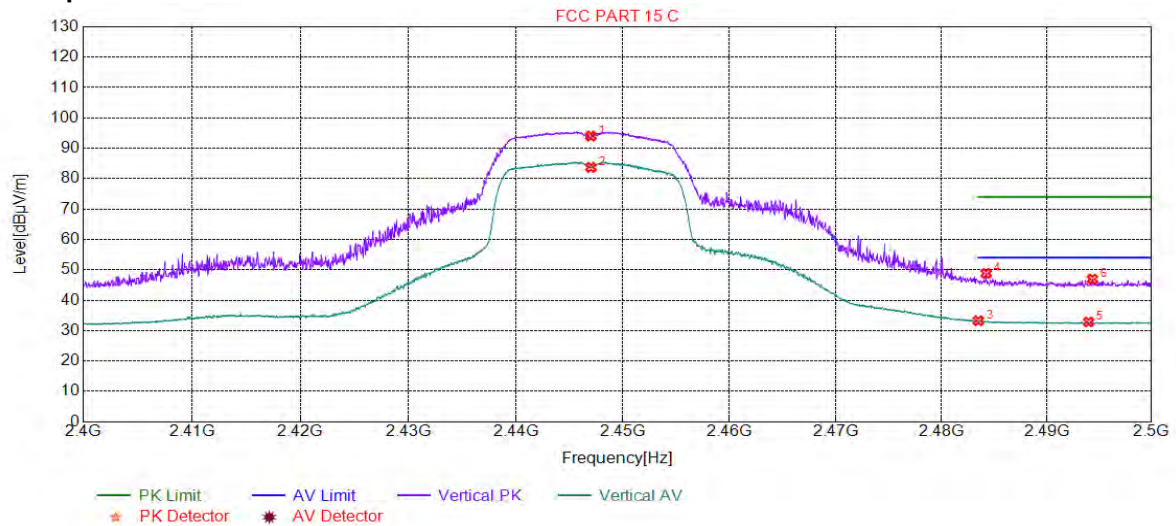


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4.10.1.14 802.11G_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	94.04	7.96	0.00	-94.04	263	209	Vertical
2	2447.00	83.74	7.96	0.00	-83.74	224	214	Vertical
3	2483.50	33.25	8.01	54.00	20.75	240	214	Vertical
4	2484.24	48.84	8.01	74.00	25.16	296	14	Vertical
5	2493.99	32.85	8.02	54.00	21.15	237	198	Vertical
6	2494.34	46.97	8.02	74.00	27.03	275	30	Vertical

Final Data List



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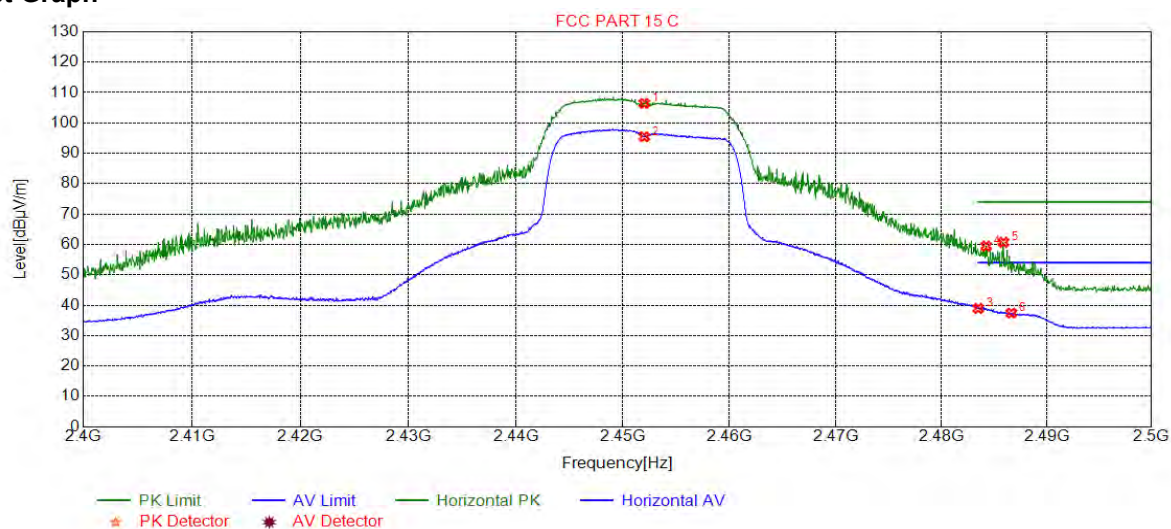
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4.10.1.15

802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	106.43	7.97	0.00	-106.43	121	298	Horizontal
2	2452.00	95.44	7.97	0.00	-95.44	233	255	Horizontal
3	2483.50	38.96	8.01	54.00	15.04	200	255	Horizontal
4	2484.24	59.46	8.01	74.00	14.54	249	298	Horizontal
5	2485.89	60.71	8.01	74.00	13.29	147	244	Horizontal
6	2486.64	37.41	8.01	54.00	16.59	229	260	Horizontal

Final Data List



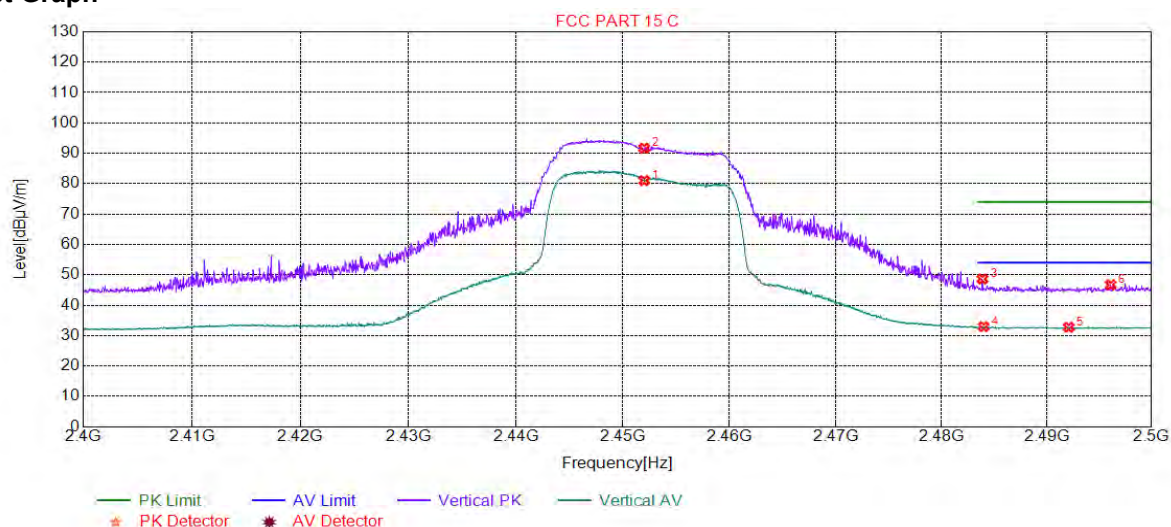
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4.10.1.16

802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	81.02	7.97	0.00	-81.02	218	356	Vertical
2	2452.00	91.69	7.97	0.00	-91.69	280	344	Vertical
3	2483.89	48.63	8.01	74.00	25.37	196	19	Vertical
4	2483.99	32.93	8.01	54.00	21.07	159	14	Vertical
5	2492.09	32.75	8.02	54.00	21.25	225	334	Vertical
6	2496.09	46.71	8.03	74.00	27.29	262	133	Vertical

Final Data List

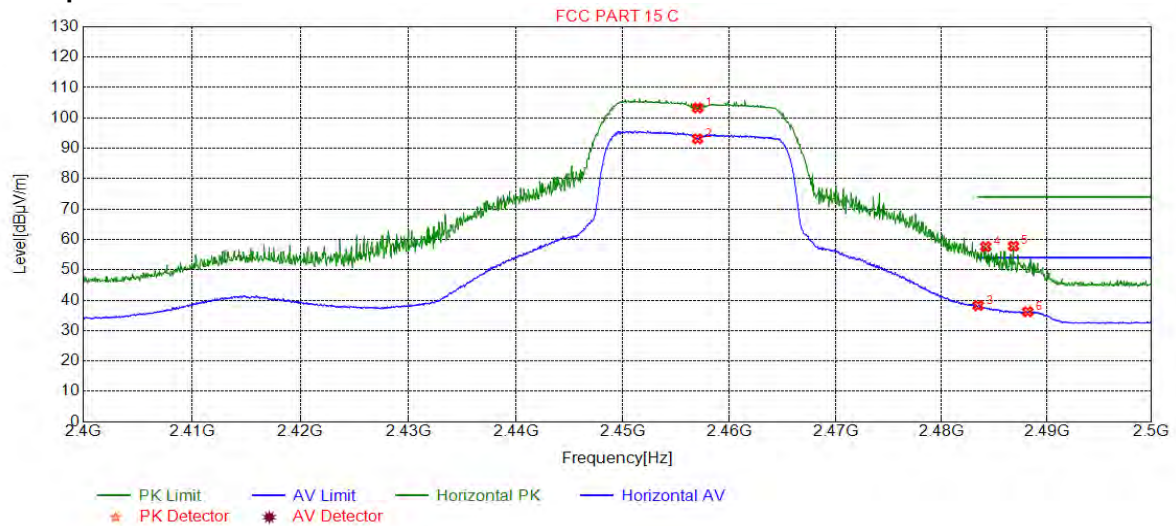


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4.10.1.17 802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	103.31	7.98	0.00	-103.31	198	308	Horizontal
2	2457.00	93.13	7.98	0.00	-93.13	133	248	Horizontal
3	2483.50	38.24	8.01	54.00	15.76	237	296	Horizontal
4	2484.19	57.63	8.01	74.00	16.37	231	237	Horizontal
5	2486.84	57.81	8.01	74.00	16.19	160	291	Horizontal
6	2488.19	36.24	8.02	54.00	17.76	208	258	Horizontal

Final Data List



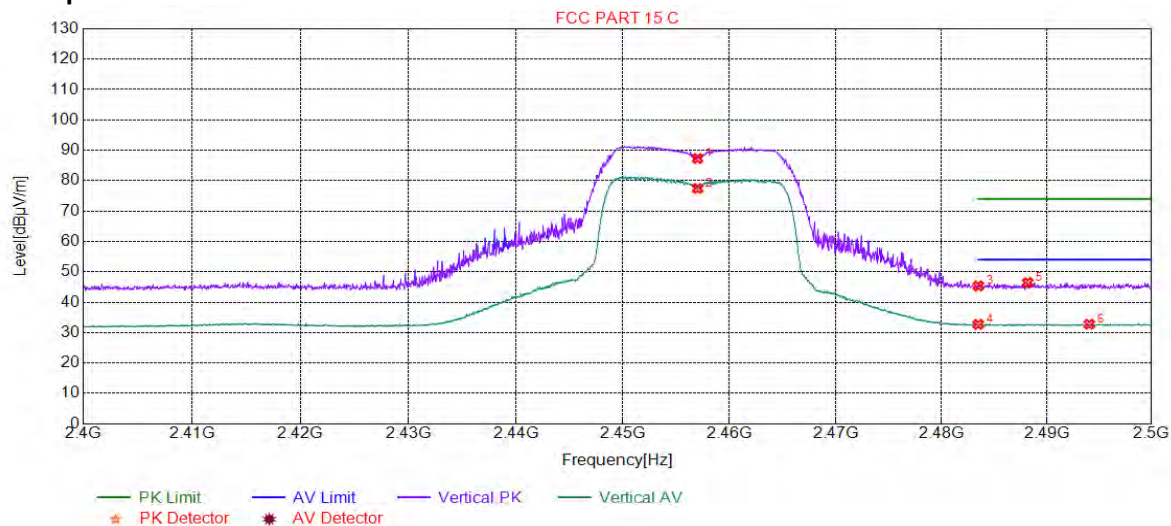
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4.10.1.18

802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	87.32	7.98	0.00	-87.32	225	342	Vertical
2	2457.00	77.44	7.98	0.00	-77.44	156	169	Vertical
3	2483.50	45.37	8.01	74.00	28.63	165	153	Vertical
4	2483.50	32.70	8.01	54.00	21.30	208	169	Vertical
5	2488.19	46.47	8.02	74.00	27.53	162	186	Vertical
6	2494.04	32.76	8.02	54.00	21.24	202	310	Vertical

Final Data List



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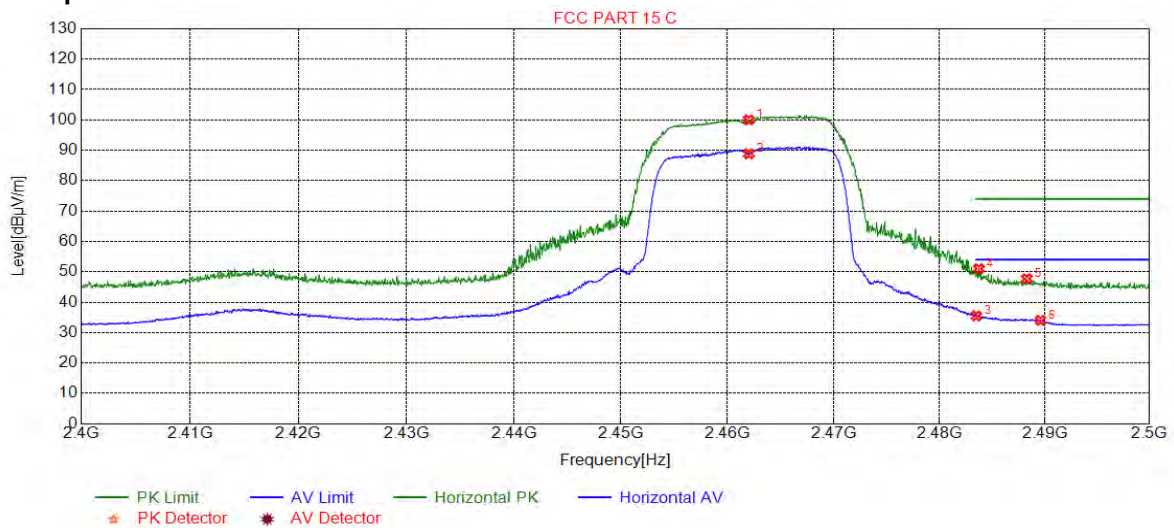
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4.10.1.19 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	100.04	7.98	0.00	-100.04	194	245	Horizontal
2	2462.00	88.86	7.98	0.00	-88.86	148	310	Horizontal
3	2483.50	35.50	8.01	54.00	18.50	145	310	Horizontal
4	2483.74	51.03	8.01	74.00	22.97	125	299	Horizontal
5	2488.29	47.74	8.02	74.00	26.26	165	207	Horizontal
6	2489.59	34.06	8.02	54.00	19.94	158	256	Horizontal

Final Data List

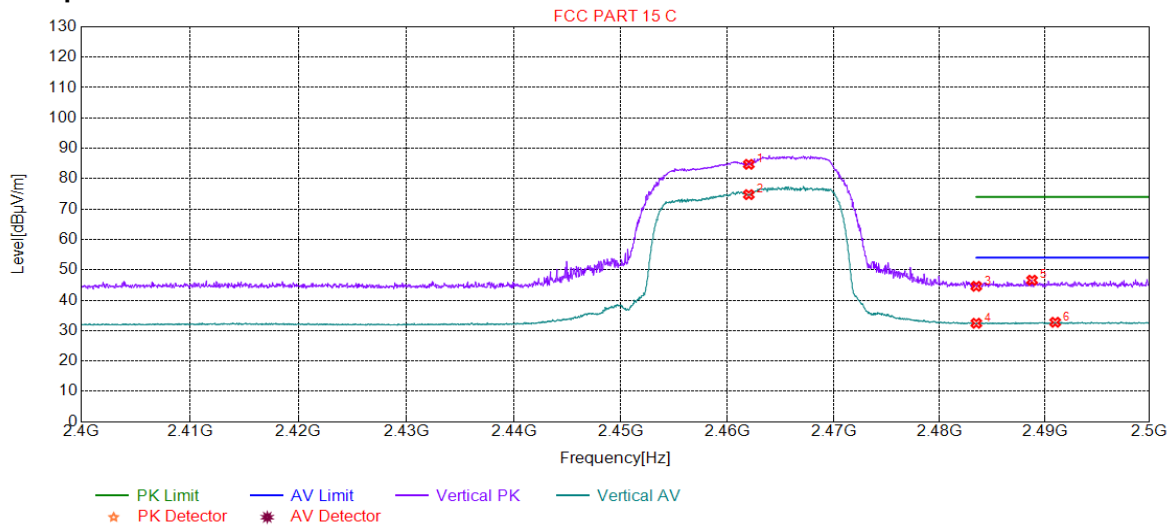


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4.10.1.20 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	84.73	7.98	0.00	-84.73	164	24	Vertical
2	2462.00	74.76	7.98	0.00	-74.76	203	19	Vertical
3	2483.50	44.59	8.01	74.00	29.41	273	14	Vertical
4	2483.50	32.44	8.01	54.00	21.56	202	112	Vertical
5	2488.79	46.60	8.02	74.00	27.40	198	173	Vertical
6	2490.99	32.75	8.02	54.00	21.25	159	173	Vertical

Final Data List

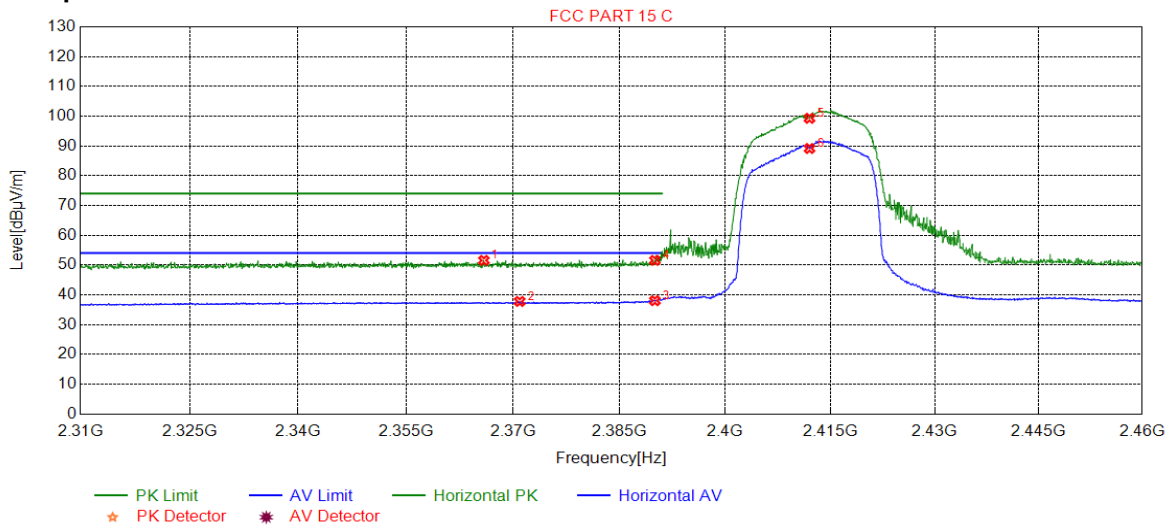


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4.10.1.21 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.90	51.54	7.79	74.00	22.46	141	253	Horizontal
2	2370.93	37.76	7.79	54.00	16.24	168	161	Horizontal
3	2390.00	38.01	7.77	54.00	15.99	165	253	Horizontal
4	2390.00	51.56	7.77	74.00	22.44	200	144	Horizontal
5	2412.00	99.26	7.81	0.00	-99.26	225	308	Horizontal
6	2412.00	89.13	7.81	0.00	-89.13	132	303	Horizontal

Final Data List



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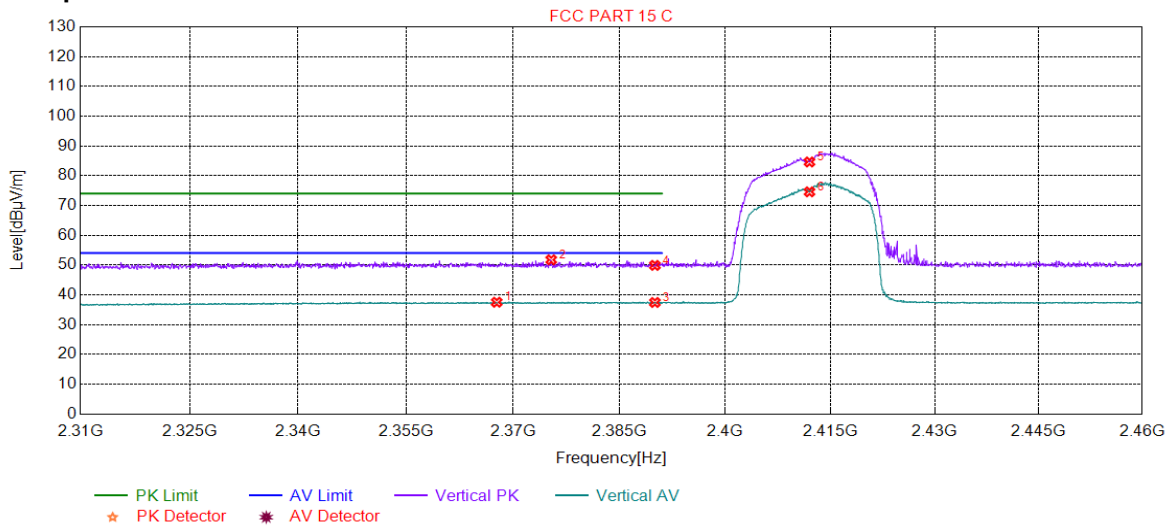
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4.10.1.22 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.70	37.50	7.79	54.00	16.50	204	45	Vertical
2	2375.35	51.74	7.78	74.00	22.26	238	78	Vertical
3	2390.00	37.42	7.77	54.00	16.58	217	51	Vertical
4	2390.00	49.87	7.77	74.00	24.13	295	14	Vertical
5	2412.00	84.60	7.81	0.00	-84.60	168	204	Vertical
6	2412.00	74.57	7.81	0.00	-74.57	250	14	Vertical

Final Data List



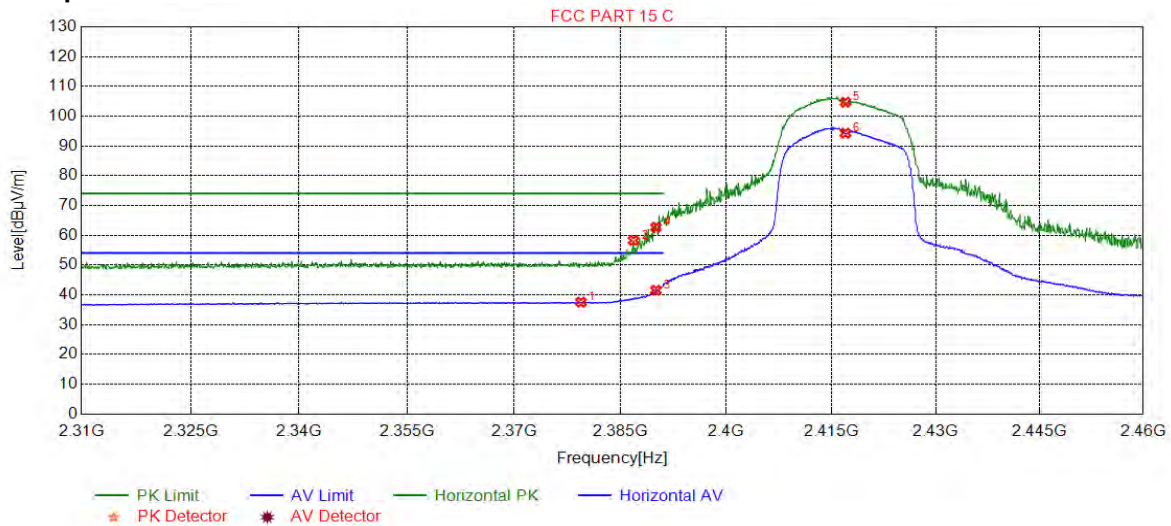
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4.10.1.23

802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.40	37.52	7.78	54.00	16.48	229	336	Horizontal
2	2386.83	58.26	7.77	74.00	15.74	201	194	Horizontal
3	2390.00	41.50	7.77	54.00	12.50	216	264	Horizontal
4	2390.00	62.65	7.77	74.00	11.35	200	39	Horizontal
5	2417.00	104.68	7.83	0.00	-104.68	204	259	Horizontal
6	2417.00	94.27	7.83	0.00	-94.27	204	303	Horizontal

Final Data List

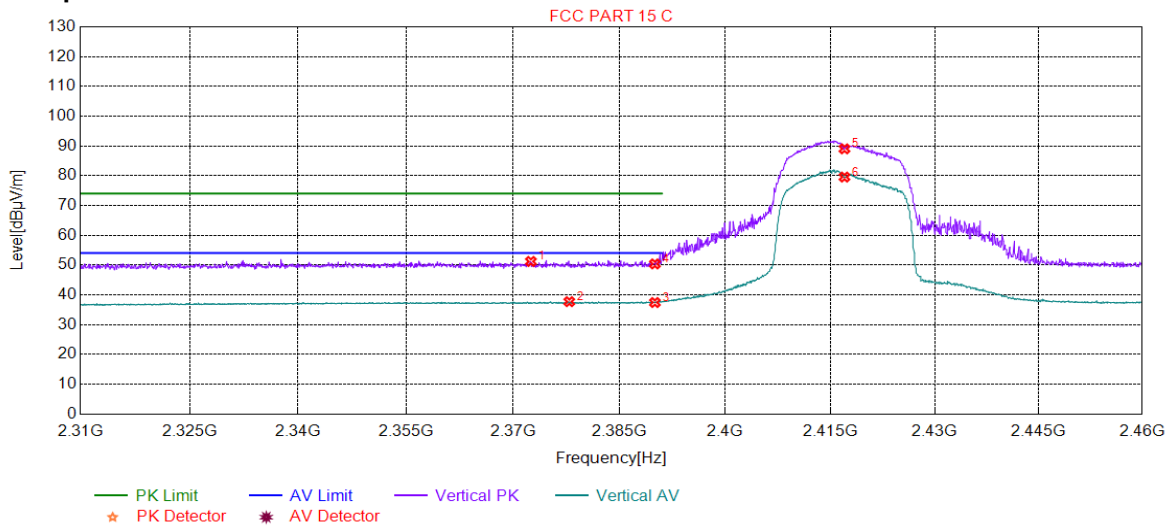


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4.10.1.24 802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.50	51.19	7.79	74.00	22.81	242	287	Vertical
2	2377.90	37.69	7.78	54.00	16.31	264	217	Vertical
3	2390.00	37.40	7.77	54.00	16.60	152	14	Vertical
4	2390.00	50.36	7.77	74.00	23.64	169	179	Vertical
5	2417.00	89.01	7.83	0.00	-89.01	193	14	Vertical
6	2417.00	79.53	7.83	0.00	-79.53	299	14	Vertical

Final Data List



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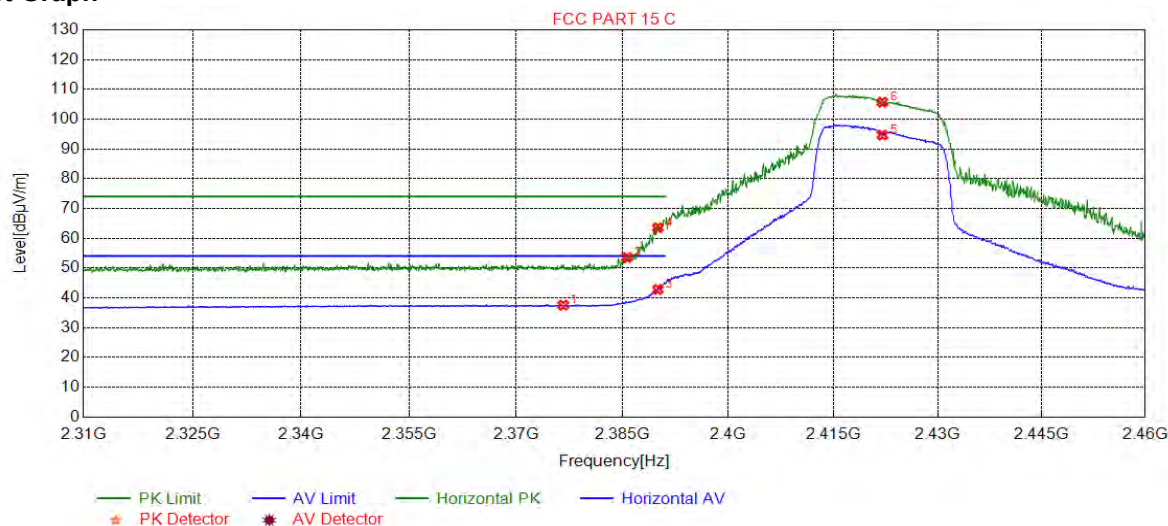
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4.10.1.25

802.11N20_Channel 3

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.63	37.52	7.78	54.00	16.48	159	91	Horizontal
2	2385.63	53.52	7.77	74.00	20.48	128	210	Horizontal
3	2390.00	42.79	7.77	54.00	11.21	138	320	Horizontal
4	2390.00	63.55	7.77	74.00	10.45	159	314	Horizontal
5	2422.00	94.63	7.85	0.00	-94.63	150	260	Horizontal
6	2422.00	105.66	7.85	0.00	-105.66	181	260	Horizontal

Final Data List



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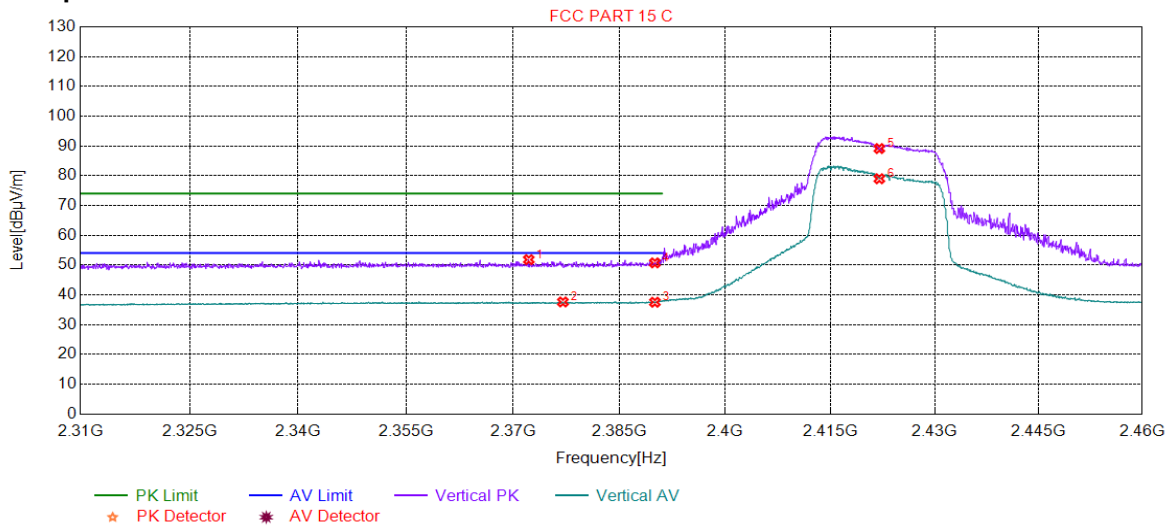
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4.10.1.26

802.11N20_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.20	51.80	7.79	74.00	22.20	221	30	Vertical
2	2377.00	37.59	7.78	54.00	16.41	185	68	Vertical
3	2390.00	37.49	7.77	54.00	16.51	183	230	Vertical
4	2390.00	50.71	7.77	74.00	23.29	238	14	Vertical
5	2422.00	89.11	7.85	0.00	-89.11	192	176	Vertical
6	2422.00	78.97	7.85	0.00	-78.97	229	176	Vertical

Final Data List



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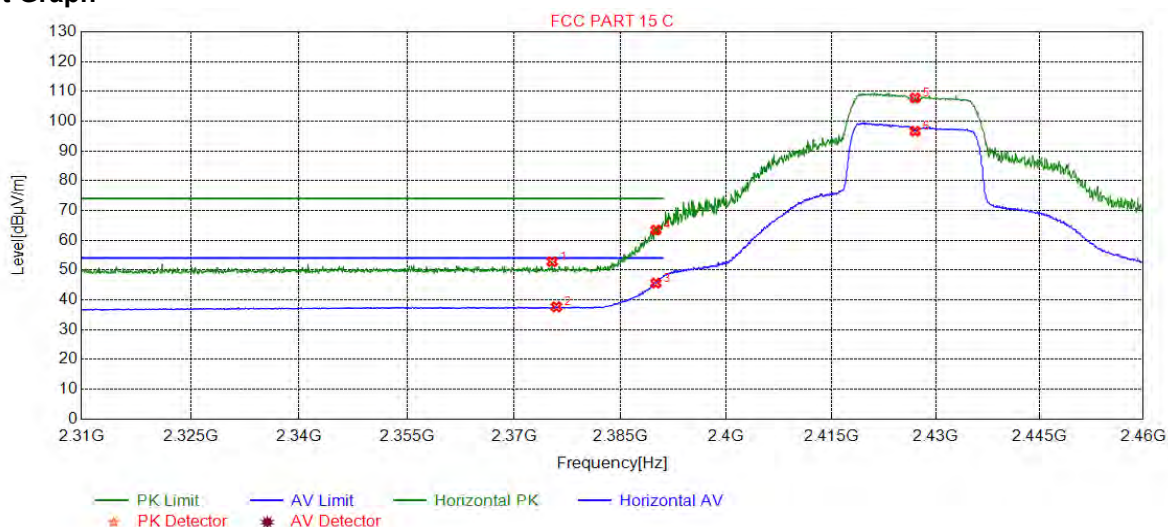
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4.10.1.27

802.11N20_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.35	52.80	7.78	74.00	21.20	112	196	Horizontal
2	2375.95	37.62	7.78	54.00	16.38	180	152	Horizontal
3	2390.00	45.59	7.77	54.00	8.41	199	308	Horizontal
4	2390.00	63.42	7.77	74.00	10.58	249	302	Horizontal
5	2427.00	107.76	7.87	0.00	-107.76	184	249	Horizontal
6	2427.00	96.59	7.87	0.00	-96.59	243	254	Horizontal

Final Data List



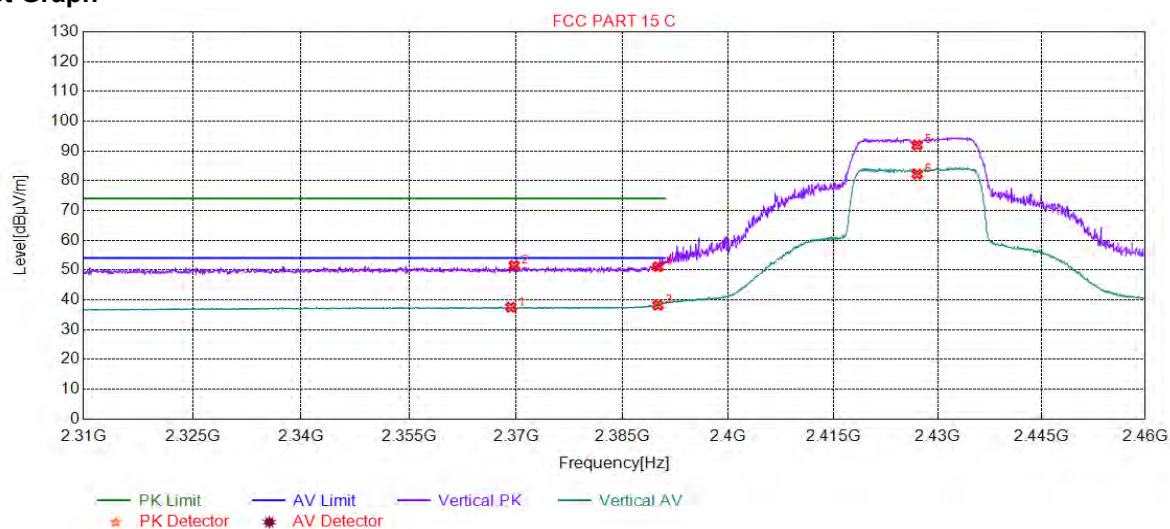
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4.10.1.28

802.11N20_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.27	37.47	7.79	54.00	16.53	150	294	Vertical
2	2369.72	51.51	7.79	74.00	22.49	274	14	Vertical
3	2390.00	38.17	7.77	54.00	15.83	267	208	Vertical
4	2390.00	51.10	7.77	74.00	22.90	248	41	Vertical
5	2427.00	91.97	7.87	0.00	-91.97	281	180	Vertical
6	2427.00	82.22	7.87	0.00	-82.22	260	175	Vertical

Final Data List

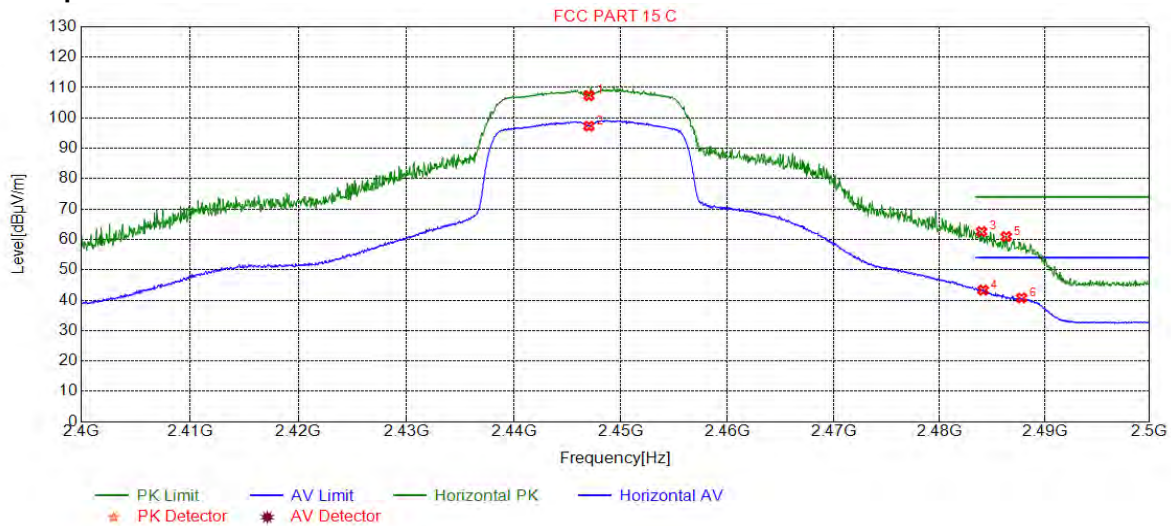


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4.10.1.29 802.11N20_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	107.32	7.96	0.00	-107.32	142	254	Horizontal
2	2447.00	97.28	7.96	0.00	-97.28	193	254	Horizontal
3	2483.99	62.59	8.01	74.00	11.41	105	140	Horizontal
4	2484.14	43.33	8.01	54.00	10.67	112	248	Horizontal
5	2486.34	60.95	8.01	74.00	13.05	100	314	Horizontal
6	2487.79	40.76	8.02	54.00	13.24	174	248	Horizontal

Final Data List



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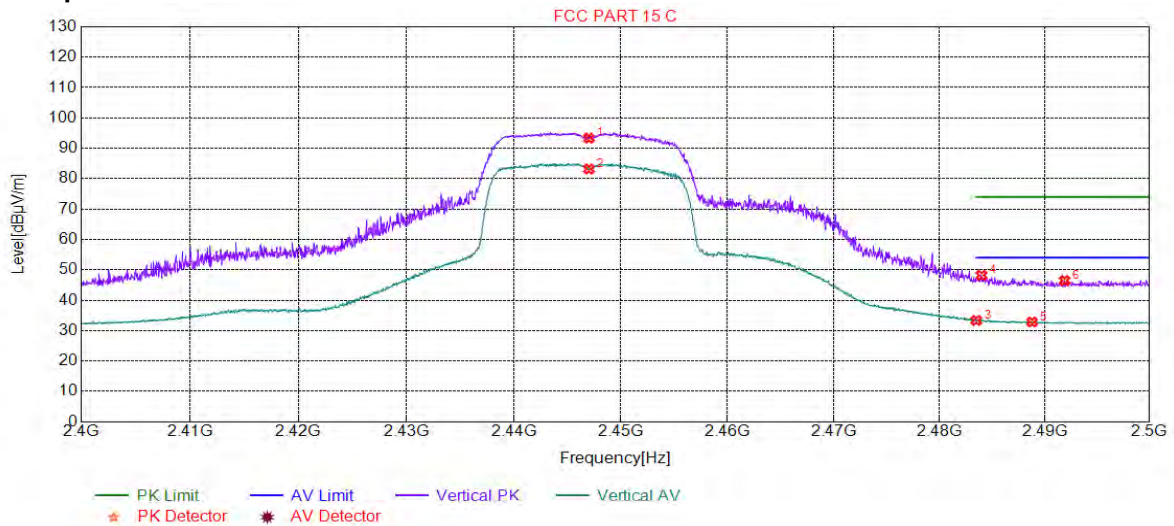
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4.10.1.30 802.11N20_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	93.33	7.96	0.00	-93.33	231	210	Vertical
2	2447.00	83.16	7.96	0.00	-83.16	224	215	Vertical
3	2483.50	33.34	8.01	54.00	20.66	200	14	Vertical
4	2483.99	48.22	8.01	74.00	25.78	231	171	Vertical
5	2488.79	32.83	8.02	54.00	21.17	210	360	Vertical
6	2491.89	46.46	8.02	74.00	27.54	183	57	Vertical

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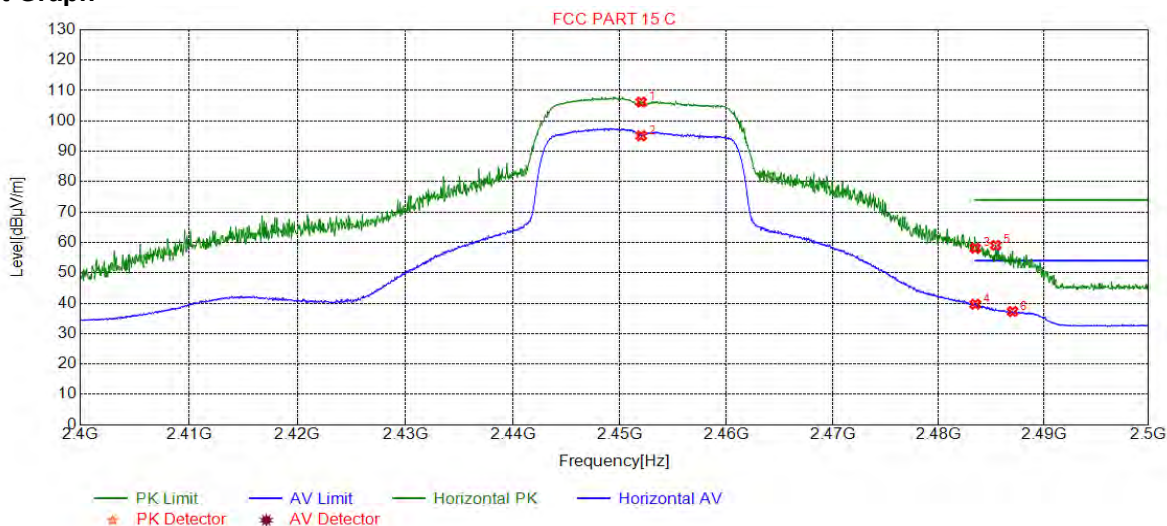
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4.10.1.31

802.11N20_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	106.19	7.97	0.00	-106.19	157	308	Horizontal
2	2452.00	95.11	7.97	0.00	-95.11	149	249	Horizontal
3	2483.50	58.12	8.01	74.00	15.88	119	249	Horizontal
4	2483.50	39.67	8.01	54.00	14.33	112	255	Horizontal
5	2485.44	59.06	8.01	74.00	14.94	173	238	Horizontal
6	2487.04	37.27	8.01	54.00	16.73	203	260	Horizontal

Final Data List



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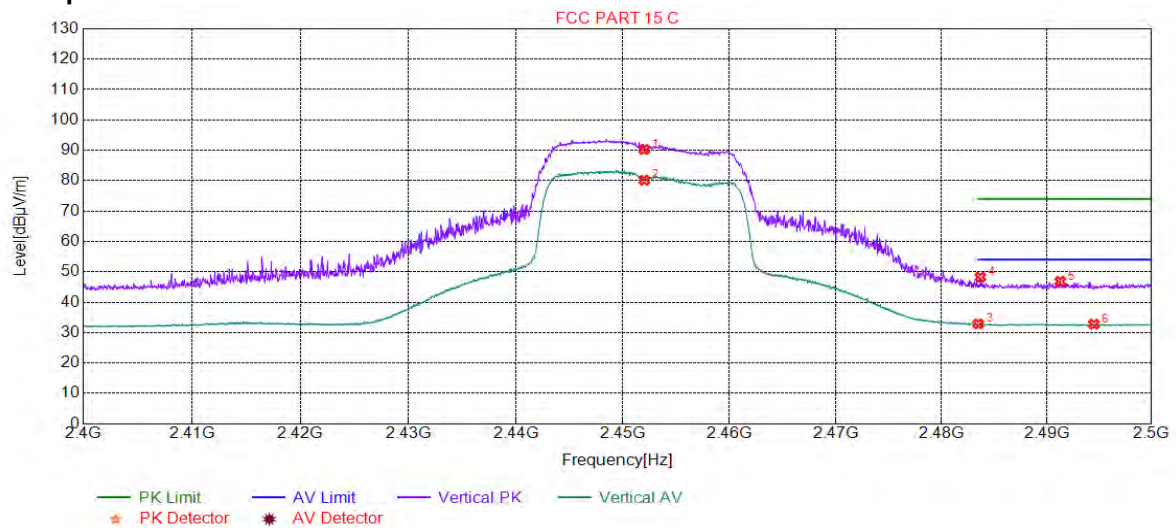
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4.10.1.32 802.11N20_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	90.27	7.97	0.00	-90.27	228	14	Vertical
2	2452.00	80.18	7.97	0.00	-80.18	279	14	Vertical
3	2483.50	32.87	8.01	54.00	21.13	243	19	Vertical
4	2483.69	48.25	8.01	74.00	25.75	219	182	Vertical
5	2491.29	46.86	8.02	74.00	27.14	181	128	Vertical
6	2494.49	32.78	8.02	54.00	21.22	151	339	Vertical

Final Data List



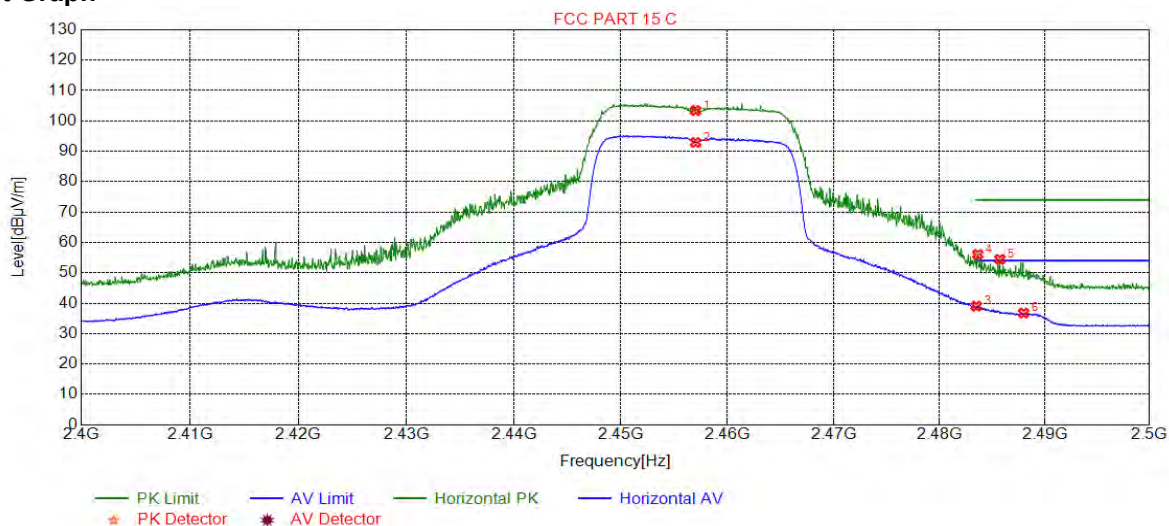
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4.10.1.33

802.11N20_Channel 10

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	103.41	7.98	0.00	-103.41	123	298	Horizontal
2	2457.00	92.90	7.98	0.00	-92.90	146	249	Horizontal
3	2483.50	39.07	8.01	54.00	14.93	153	249	Horizontal
4	2483.64	56.07	8.01	74.00	17.93	185	238	Horizontal
5	2485.74	54.44	8.01	74.00	19.56	199	238	Horizontal
6	2487.99	36.77	8.02	54.00	17.23	201	249	Horizontal

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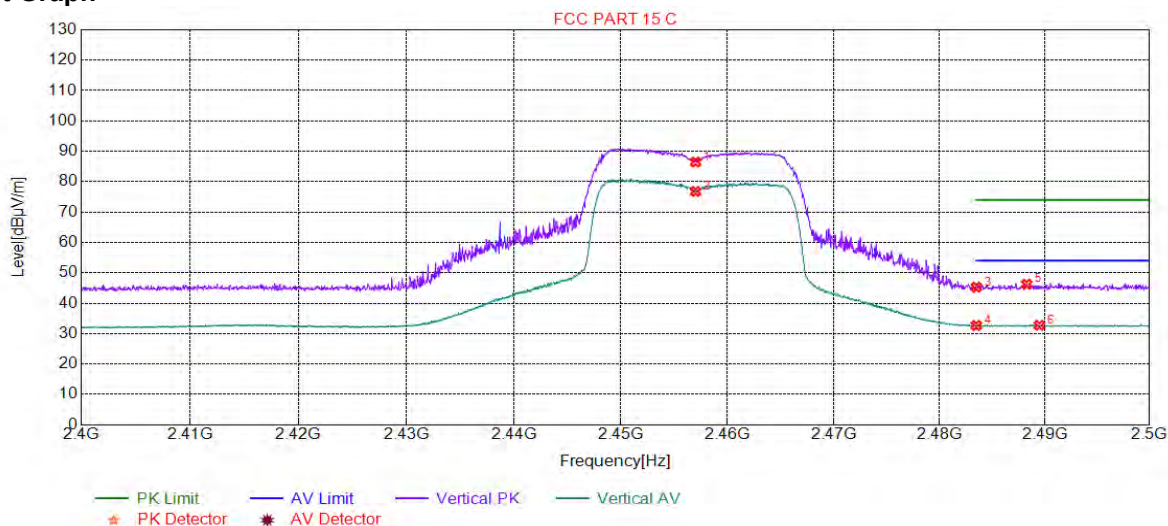
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4.10.1.34

802.11N20_Channel 10

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	86.48	7.98	0.00	-86.48	211	352	Vertical
2	2457.00	76.79	7.98	0.00	-76.79	292	341	Vertical
3	2483.50	45.30	8.01	74.00	28.70	223	184	Vertical
4	2483.50	32.66	8.01	54.00	21.34	208	156	Vertical
5	2488.29	46.29	8.02	74.00	27.71	165	178	Vertical
6	2489.49	32.73	8.02	54.00	21.27	179	14	Vertical

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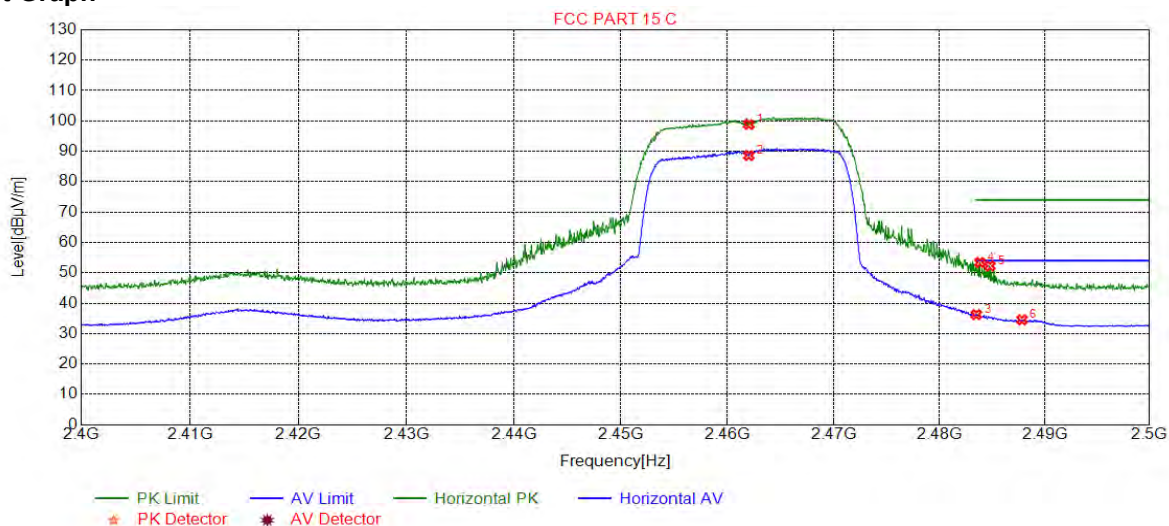
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4.10.1.35

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]	Angle [°]	Polarity
1	2462.00	98.82	7.98	0.00	-98.82	181	303	Horizontal
2	2462.00	88.62	7.98	0.00	-88.62	152	259	Horizontal
3	2483.50	36.25	8.01	54.00	17.75	191	248	Horizontal
4	2483.84	53.45	8.01	74.00	20.55	108	248	Horizontal
5	2484.79	52.27	8.01	74.00	21.73	138	232	Horizontal
6	2487.84	34.55	8.02	54.00	19.45	225	248	Horizontal

Final Data List



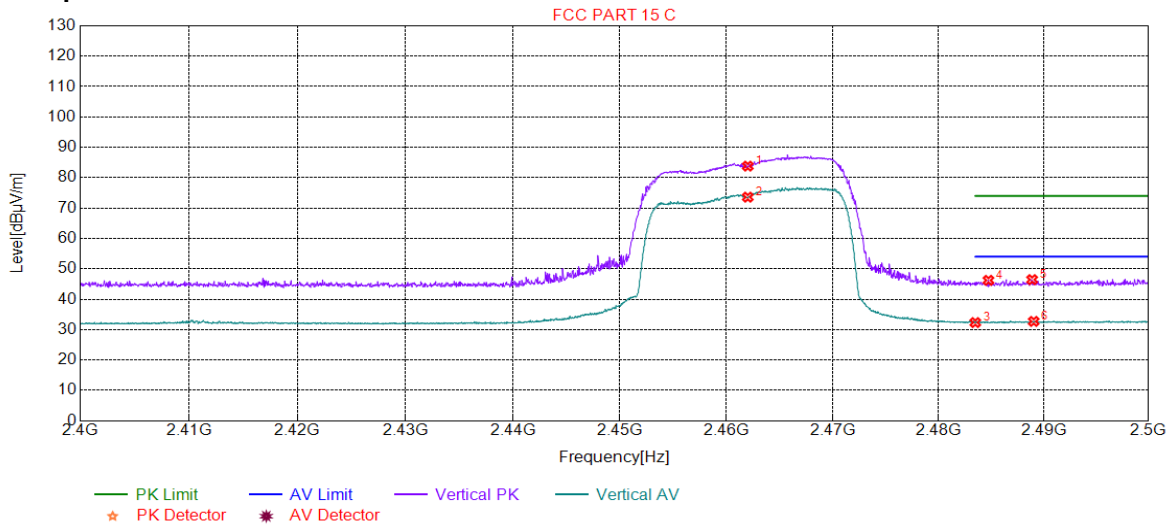
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4.10.1.36

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]	Angle [°]	Polarity
1	2462.00	83.82	7.98	0.00	-83.82	199	29	Vertical
2	2462.00	73.60	7.98	0.00	-73.60	191	29	Vertical
3	2483.50	32.33	8.01	54.00	21.67	297	150	Vertical
4	2484.74	46.23	8.01	74.00	27.77	188	264	Vertical
5	2488.89	46.46	8.02	74.00	27.54	203	344	Vertical
6	2489.04	32.71	8.02	54.00	21.29	188	360	Vertical

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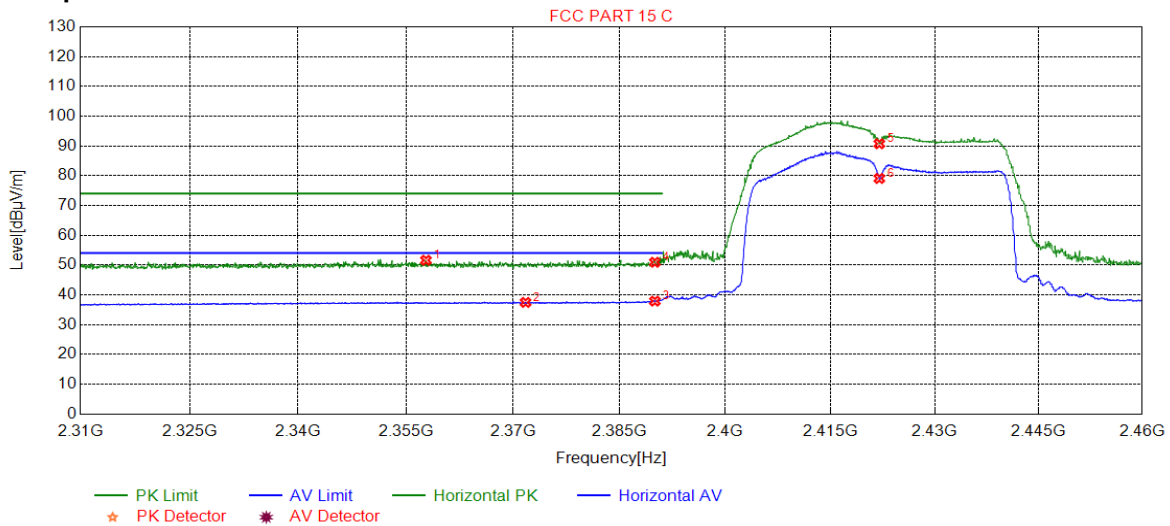
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4.10.1.37 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.79	51.59	7.80	74.00	22.41	139	123	Horizontal
2	2371.75	37.44	7.79	54.00	16.56	234	205	Horizontal
3	2390.00	37.87	7.77	54.00	16.13	169	302	Horizontal
4	2390.00	50.92	7.77	74.00	23.08	115	205	Horizontal
5	2422.00	90.72	7.85	0.00	-90.72	183	264	Horizontal
6	2422.00	79.06	7.85	0.00	-79.06	202	302	Horizontal

Final Data List



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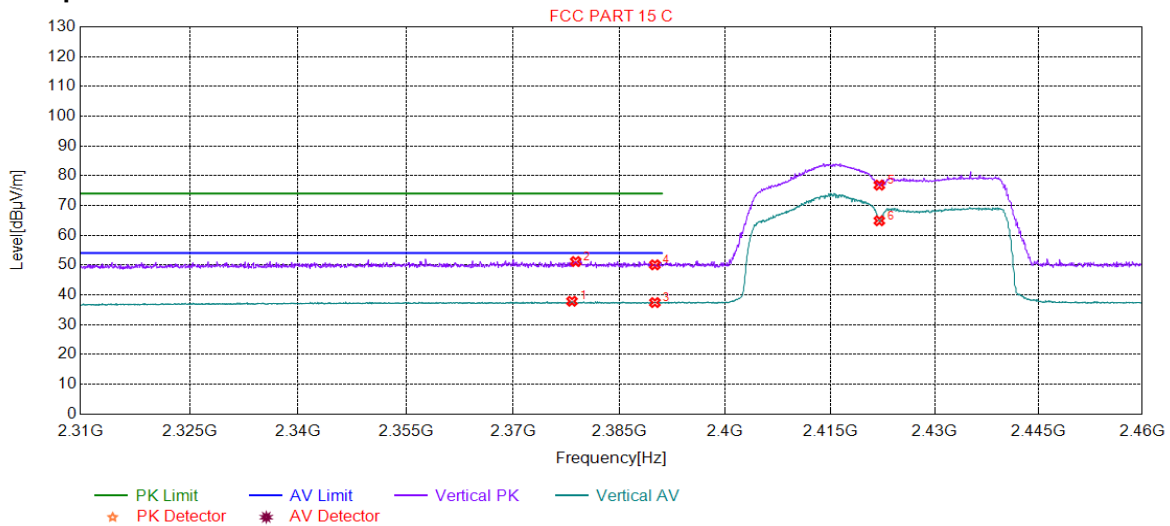
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4.10.1.38 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.28	37.83	7.78	54.00	16.17	163	14	Vertical
2	2378.80	51.16	7.78	74.00	22.84	207	216	Vertical
3	2390.00	37.38	7.77	54.00	16.62	245	255	Vertical
4	2390.00	50.05	7.77	74.00	23.95	202	101	Vertical
5	2422.00	76.83	7.85	0.00	-76.83	289	178	Vertical
6	2422.00	64.86	7.85	0.00	-64.86	280	178	Vertical

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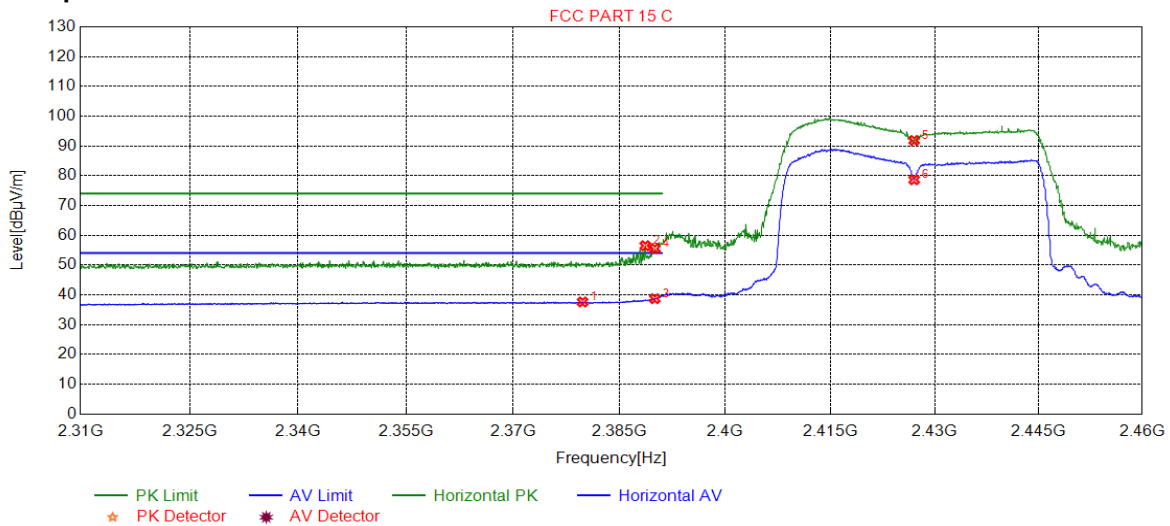
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4.10.1.39 802.11N40_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.78	37.59	7.78	54.00	16.41	155	310	Horizontal
2	2388.63	56.47	7.77	74.00	17.53	233	336	Horizontal
3	2390.00	38.69	7.77	54.00	15.31	247	304	Horizontal
4	2390.00	55.49	7.77	74.00	18.51	221	320	Horizontal
5	2427.00	91.82	7.87	0.00	-91.82	150	304	Horizontal
6	2427.00	78.62	7.87	0.00	-78.62	174	254	Horizontal

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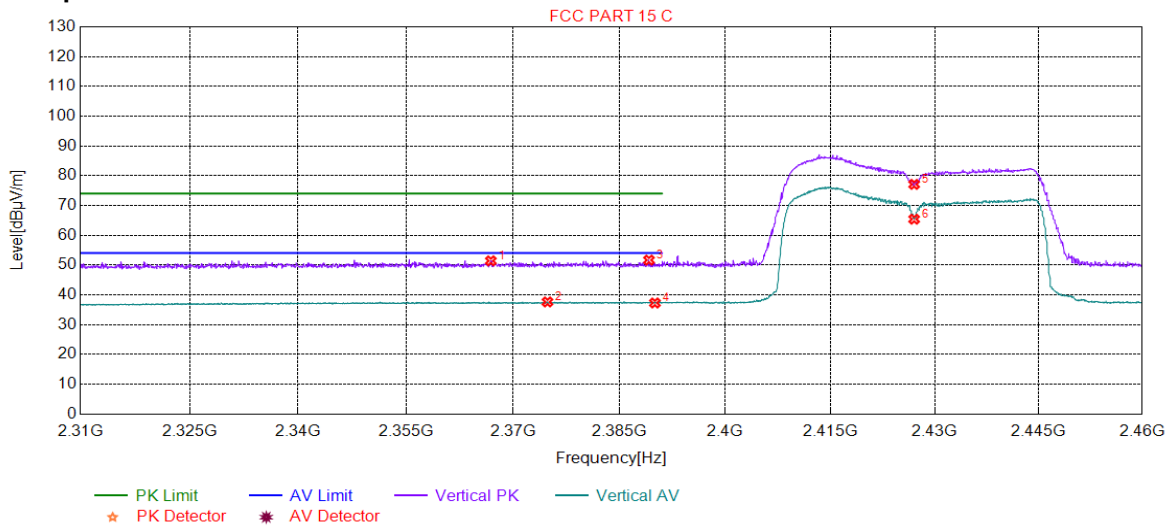
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4.10.1.40 802.11N40_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.87	51.40	7.79	74.00	22.60	270	73	Vertical
2	2374.83	37.60	7.79	54.00	16.40	227	211	Vertical
3	2389.16	51.65	7.77	74.00	22.35	160	127	Vertical
4	2390.00	37.24	7.77	54.00	16.76	218	315	Vertical
5	2427.00	77.07	7.87	0.00	-77.07	237	183	Vertical
6	2427.00	65.39	7.87	0.00	-65.39	161	178	Vertical

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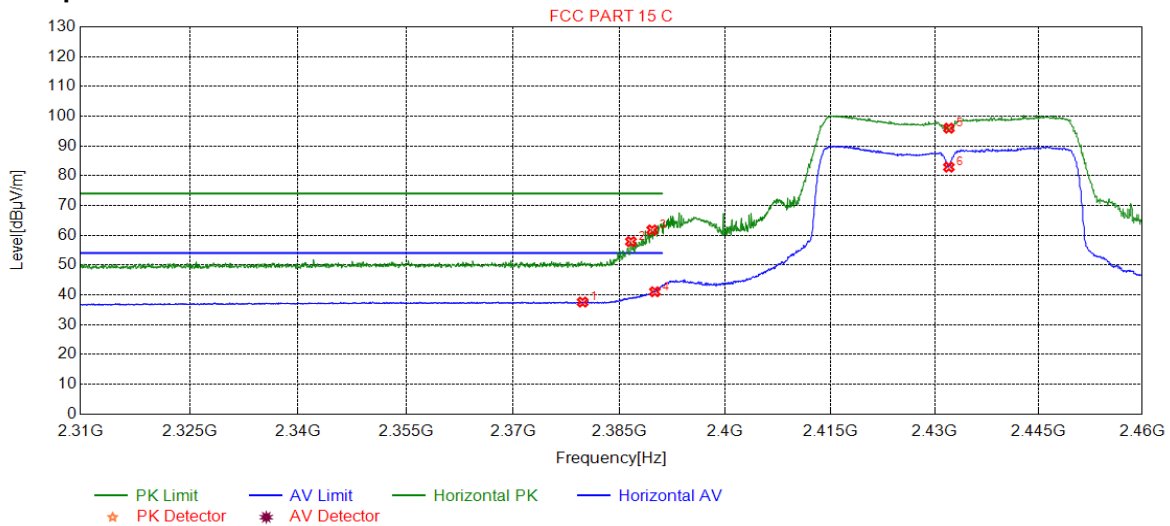
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4.10.1.41 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.78	37.56	7.78	54.00	16.44	194	236	Horizontal
2	2386.61	57.85	7.77	74.00	16.15	236	208	Horizontal
3	2389.61	61.77	7.77	74.00	12.23	163	192	Horizontal
4	2390.00	41.01	7.77	54.00	12.99	116	208	Horizontal
5	2432.00	95.94	7.89	0.00	-95.94	242	308	Horizontal
6	2432.00	82.86	7.89	0.00	-82.86	150	319	Horizontal

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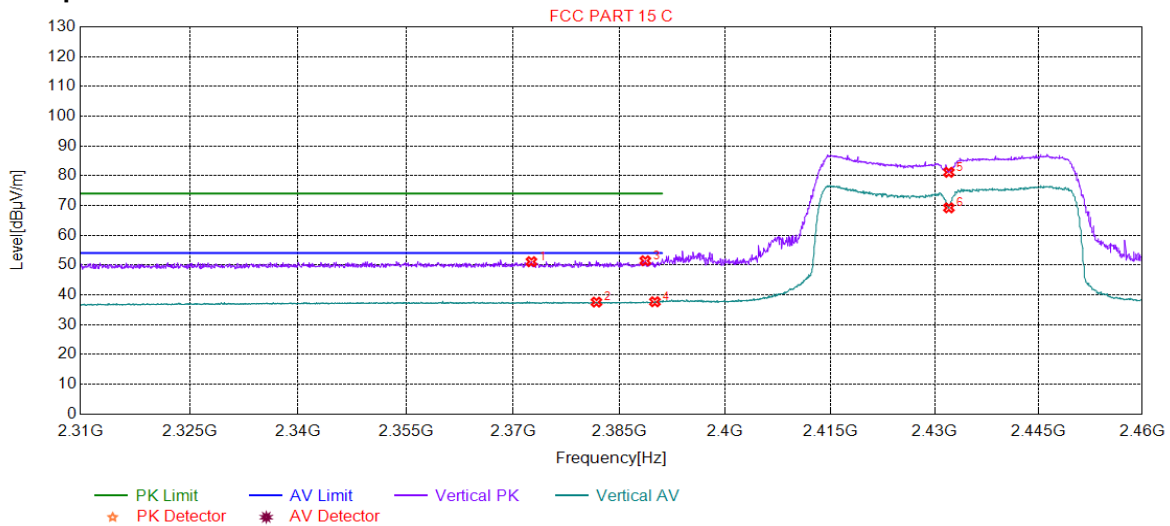
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4.10.1.42 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.58	51.12	7.79	74.00	22.88	168	24	Vertical
2	2381.73	37.53	7.78	54.00	16.47	294	106	Vertical
3	2388.63	51.42	7.77	74.00	22.58	217	199	Vertical
4	2390.00	37.65	7.77	54.00	16.35	162	172	Vertical
5	2432.00	81.12	7.89	0.00	-81.12	271	177	Vertical
6	2432.00	69.20	7.89	0.00	-69.20	292	194	Vertical

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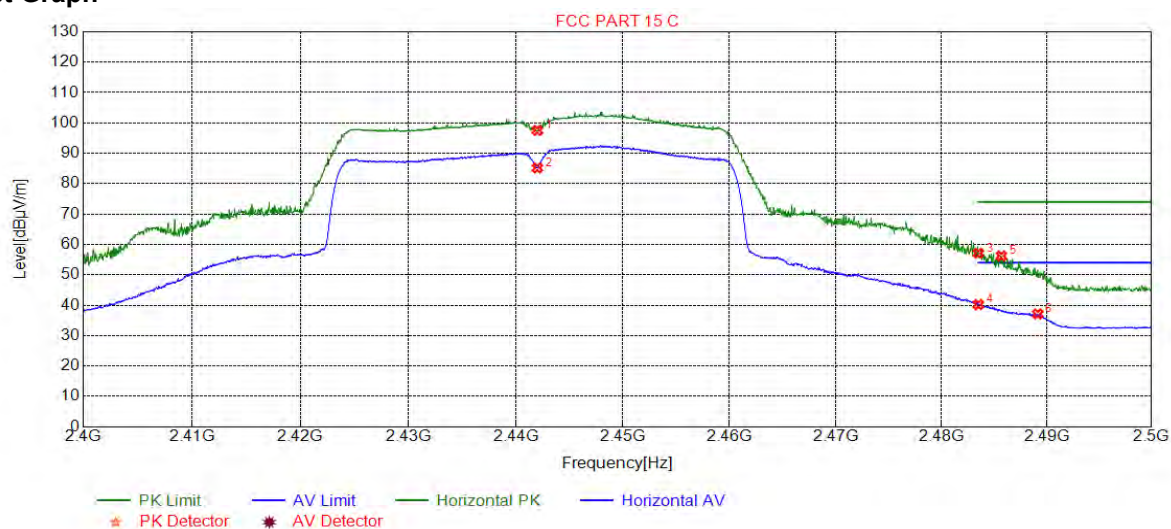
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4.10.1.43

802.11N40_Channel 7

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	97.54	7.94	0.00	-97.54	114	300	Horizontal
2	2442.00	85.18	7.94	0.00	-85.18	200	249	Horizontal
3	2483.50	57.11	8.01	74.00	16.89	110	289	Horizontal
4	2483.50	40.23	8.01	54.00	13.77	144	255	Horizontal
5	2485.69	56.20	8.01	74.00	17.80	158	244	Horizontal
6	2489.14	37.13	8.02	54.00	16.87	176	249	Horizontal

Final Data List



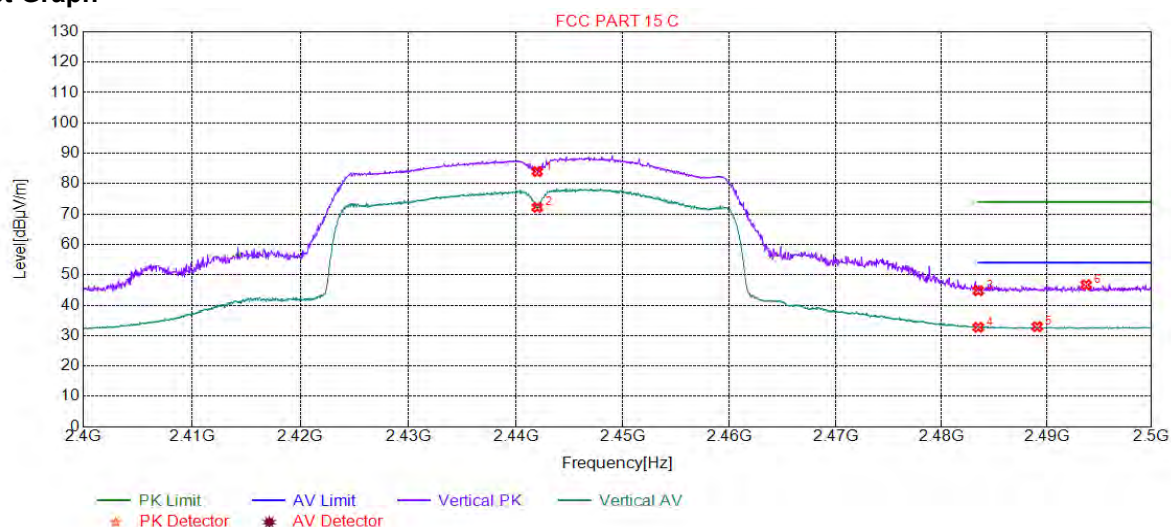
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4.10.1.44

802.11N40_Channel 7

Test Graph



Suspected List

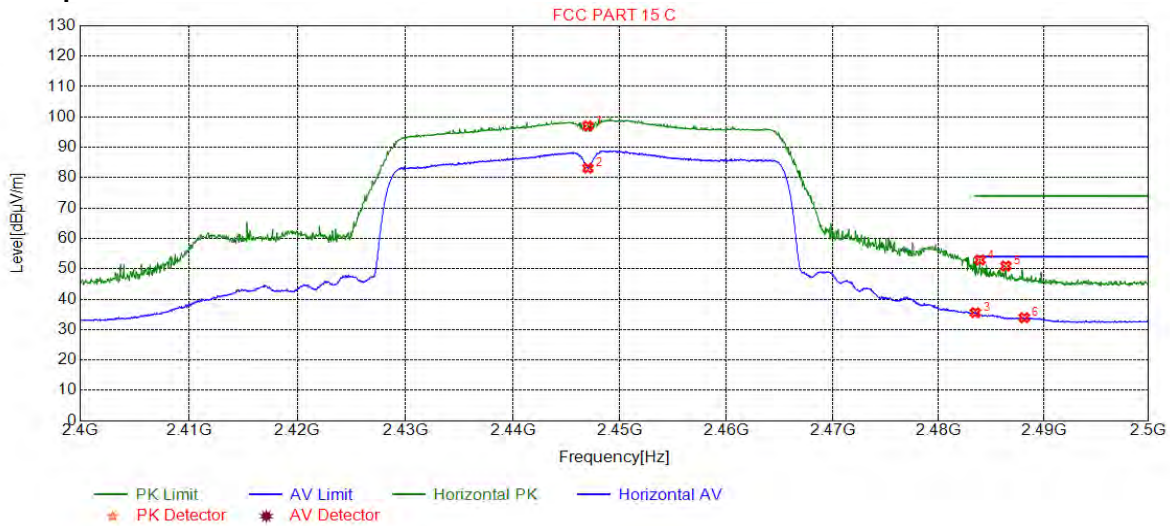
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	83.97	7.94	0.00	-83.97	192	214	Vertical
2	2442.00	72.19	7.94	0.00	-72.19	212	214	Vertical
3	2483.50	44.78	8.01	74.00	29.22	253	321	Vertical
4	2483.50	32.73	8.01	54.00	21.27	198	34	Vertical
5	2489.09	32.94	8.02	54.00	21.06	268	191	Vertical
6	2493.74	46.74	8.02	74.00	27.26	228	272	Vertical

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4.10.1.45 802.11N40_Channel 8
Test Graph**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	97.04	7.96	0.00	-97.04	166	259	Horizontal
2	2447.00	83.13	7.96	0.00	-83.13	175	259	Horizontal
3	2483.50	35.58	8.01	54.00	18.42	218	265	Horizontal
4	2483.94	52.95	8.01	74.00	21.05	131	254	Horizontal
5	2486.39	50.93	8.01	74.00	23.07	171	254	Horizontal
6	2488.14	33.93	8.02	54.00	20.07	247	254	Horizontal

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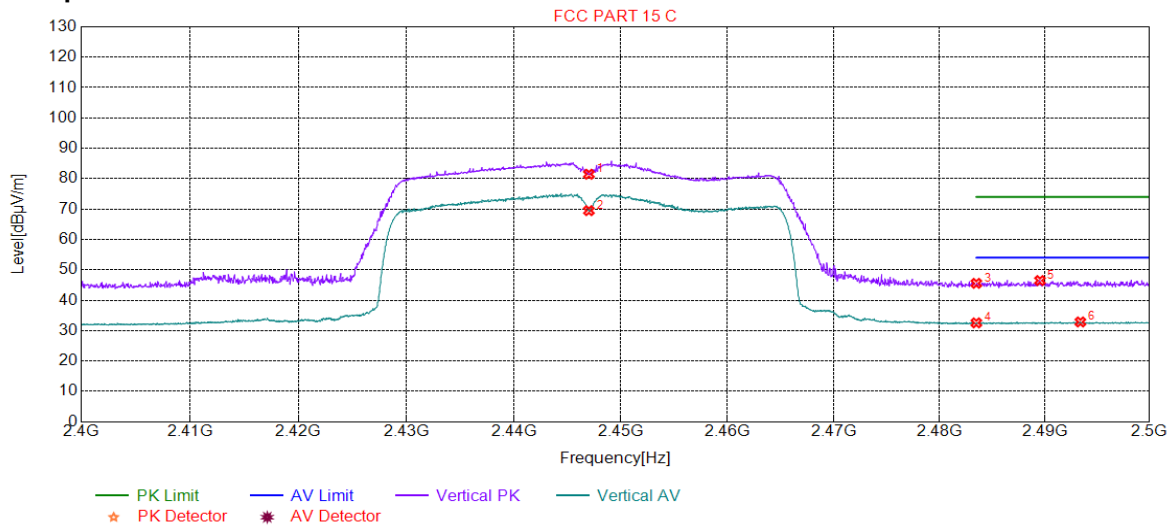
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4.10.1.46

802.11N40_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	81.47	7.96	0.00	-81.47	268	221	Vertical
2	2447.00	69.49	7.96	0.00	-69.49	213	215	Vertical
3	2483.50	45.57	8.01	74.00	28.43	250	177	Vertical
4	2483.50	32.56	8.01	54.00	21.44	233	30	Vertical
5	2489.54	46.49	8.02	74.00	27.51	165	62	Vertical
6	2493.39	32.86	8.02	54.00	21.14	188	111	Vertical

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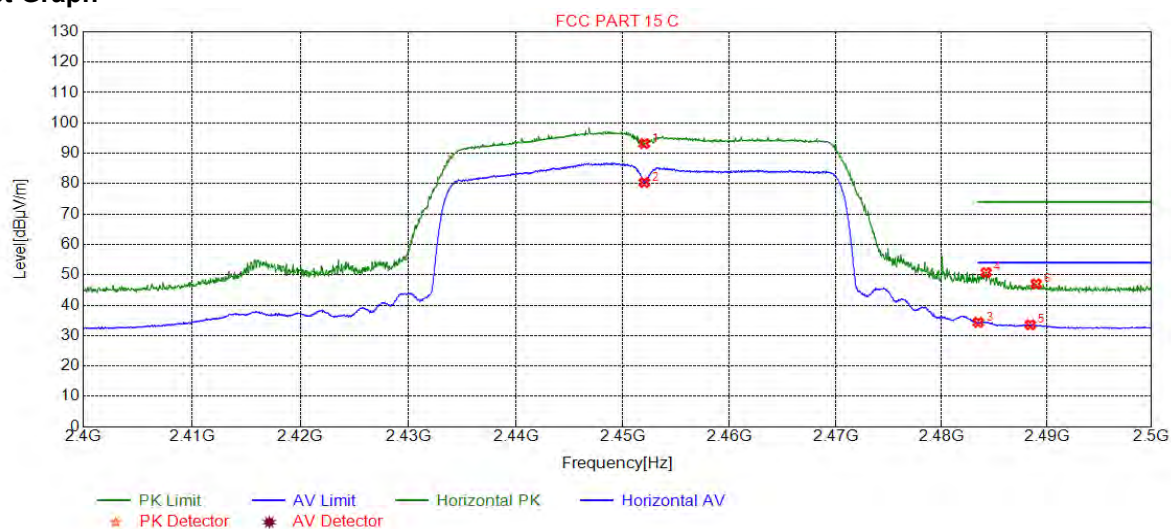
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4.10.1.47

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]	Angle [°]	Polarity
1	2452.00	93.22	7.97	0.00	-93.22	127	248	Horizontal
2	2452.00	80.41	7.97	0.00	-80.41	204	259	Horizontal
3	2483.50	34.36	8.01	54.00	19.64	132	259	Horizontal
4	2484.24	50.77	8.01	74.00	23.23	239	303	Horizontal
5	2488.44	33.58	8.02	54.00	20.42	119	248	Horizontal
6	2488.99	47.05	8.02	74.00	26.95	199	237	Horizontal

Final Data List



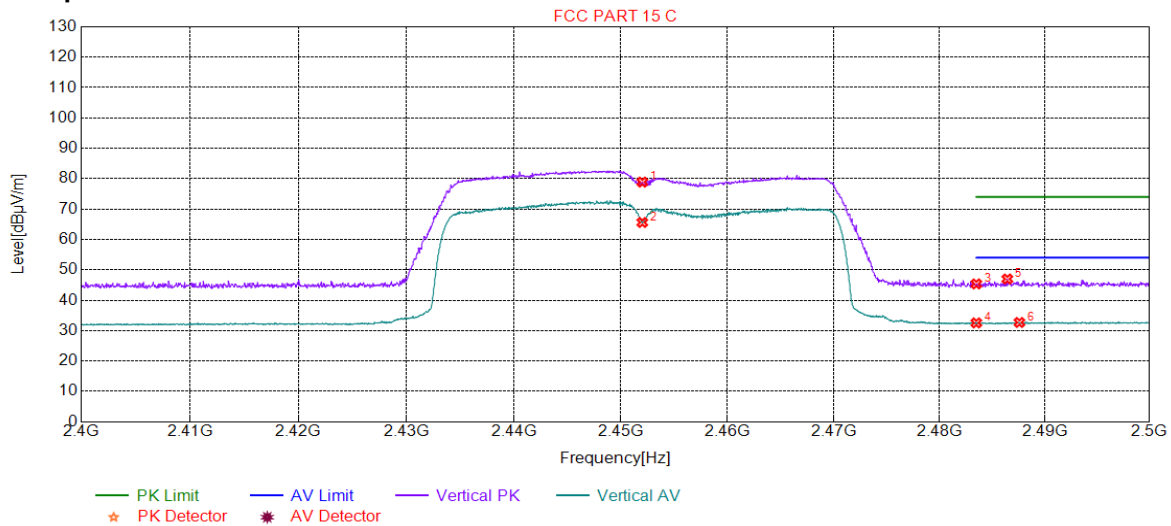
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4.10.1.48

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]	Angle [°]	Polarity
1	2452.00	78.89	7.97	0.00	-78.89	172	353	Vertical
2	2452.00	65.60	7.97	0.00	-65.60	258	14	Vertical
3	2483.50	45.38	8.01	54.00	8.62	203	14	Vertical
4	2483.50	32.54	8.01	54.00	21.46	236	231	Vertical
5	2486.44	46.99	8.01	74.00	27.01	288	236	Vertical
6	2487.59	32.69	8.02	54.00	21.31	247	159	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.

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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Temperature test	$\pm 1^\circ\text{C}$
5	Humidity test	$\pm 3\%$
6	DC and low frequency voltages	$\pm 0.5\%$

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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6 Equipment List

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	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for HR/2020/B0007.



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Appendix



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