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 FCC Part 15, Subpart E
Date of Receipt:	2021/6/10
Date of Test:	2021/6/10 to 2021/7/26
Date of Issue:	2021/7/27
Test Result :	**PASS ***

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		2021/7/27		Original

Authorized for issue by:		
Prepared By		Leah chen **(Leah Chen) / Engineer**
Checked By		Daniel Wang **(Daniel Wang) /Reviewer**

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2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS
	5250-5350	15.403(i) 15.407(a)(2)			
	5470-5725	15.403(i) 15.407(a)(2)			
6dB Emission Bandwidth	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS
	5250-5350				
	5470-5725				
	5725-5850				
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)		
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)		
Maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 4.8	PASS
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)		
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted:		PASS

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		15.209	<-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.11	PASS
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	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	☒ 802.11a (20 MHz channel bandwidth), ☒ 802.11n (20 MHz channel bandwidth) ☒ 802.11n (40 MHz channel bandwidth), ☒ 802.11ac (20 MHz channel bandwidth) ☒ 802.11ac (40 MHz channel bandwidth) ☒ 802.11ac (80 MHz channel bandwidth) ☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(VHT20/40/80)/ax(VHE20/40/80): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80)/ax(VHE20/40/80): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80)/ax(VHE20/40/80): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80)/ax(VHE20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM/OFDMA
DFS mode:	☐Master ☐ Slave with radar detection ☒Slave without radar detection
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	PIFA
Antenna Ports	☒ Ant 1, ☒ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11a/n/ac/ax), ☒ MIMO (for 802.11n/ac/ax), ☐ Diversity (for 802.11a).
Antenna Gain:	2.4dBi(Ant7); -4.3dBi(Ant9)

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end

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Greater than 10 MHz	3	1 near high end, 1 near centre

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For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5530
	The Highest channel	5610

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac/ax 80MHz	The Middle channel	5775

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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.

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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna are 2.4dBi(Ant7) and -4.3dBi(Ant9).	

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
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		

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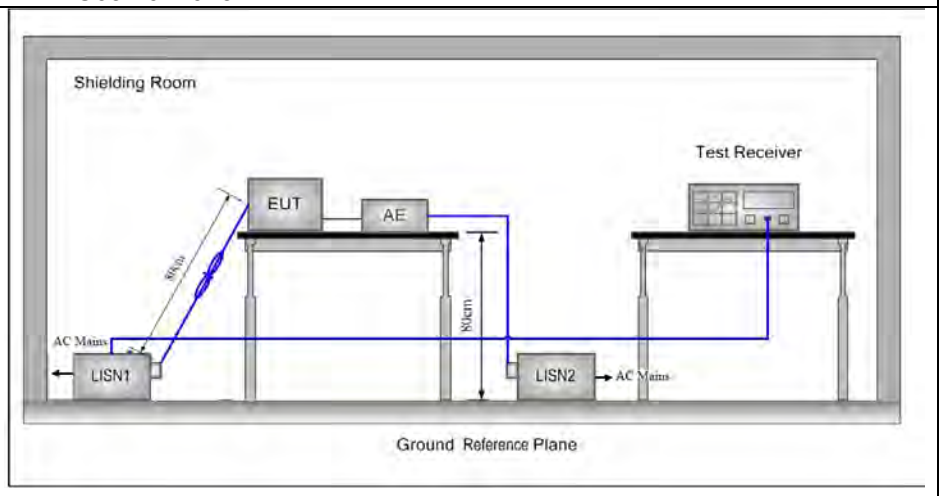
	unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, 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.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a 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

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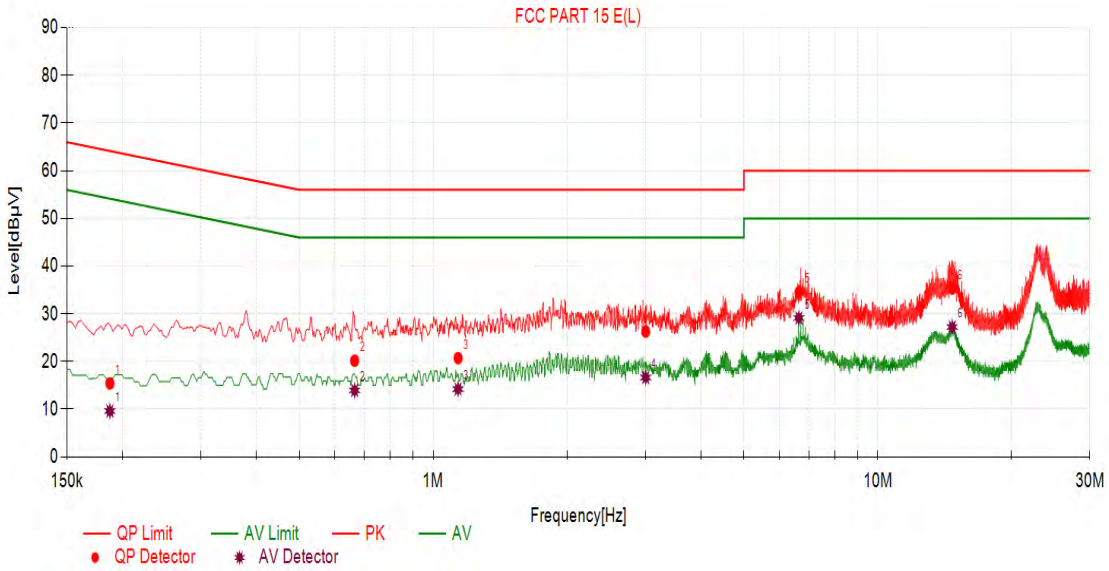
Measurement Data

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	0.1875	10.10	15.40	64.15	48.75	9.61	54.15	44.54	PASS
2	0.6659	10.10	20.19	56.00	35.81	13.95	46.00	32.05	PASS
3	1.1379	10.10	20.72	56.00	35.28	14.22	46.00	31.78	PASS
4	3.0074	10.10	26.29	56.00	29.71	16.65	46.00	29.35	PASS
5	6.6482	10.10	34.52	60.00	25.48	29.12	50.00	20.88	PASS
6	14.7076	10.11	35.31	60.00	24.69	27.24	50.00	22.76	PASS

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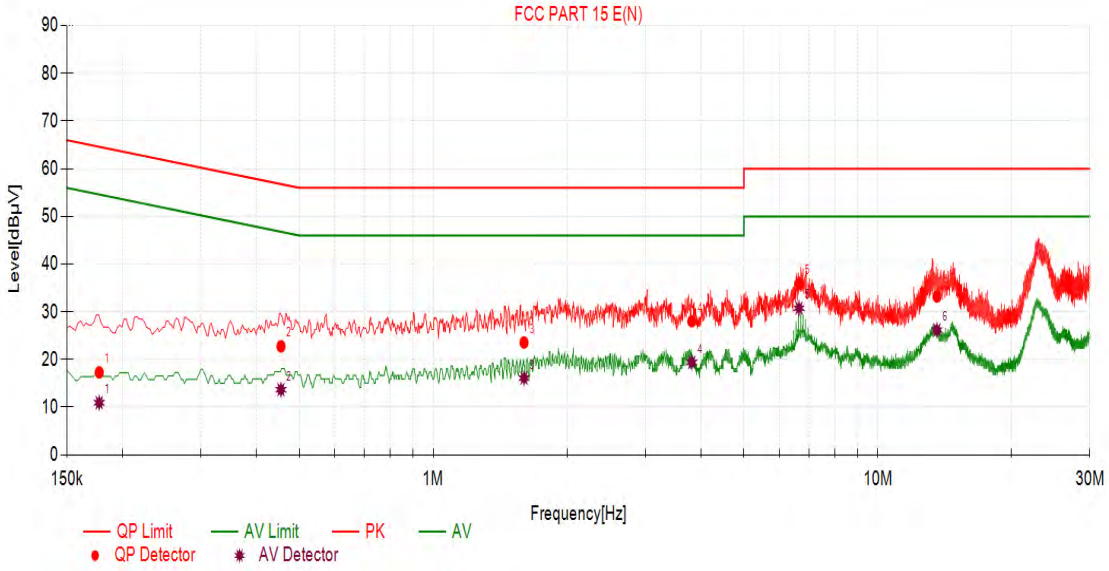
Neutral Line:



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	0.1774	10.10	17.31	64.60	47.29	10.94	54.60	43.66	PASS
2	0.4547	10.10	22.77	56.79	34.02	13.67	46.79	33.12	PASS
3	1.6014	10.10	23.58	56.00	32.42	16.10	46.00	29.90	PASS
4	3.8176	10.10	28.04	56.00	27.96	19.40	46.00	26.60	PASS
5	6.6530	10.10	35.88	60.00	24.12	30.78	50.00	19.22	PASS
6	13.5913	10.11	33.23	60.00	26.77	26.19	50.00	23.81	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 D**

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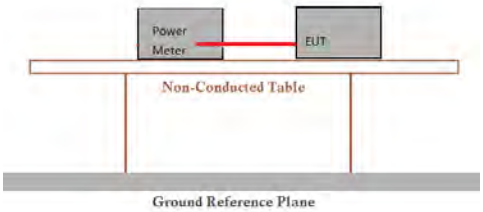
4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	

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

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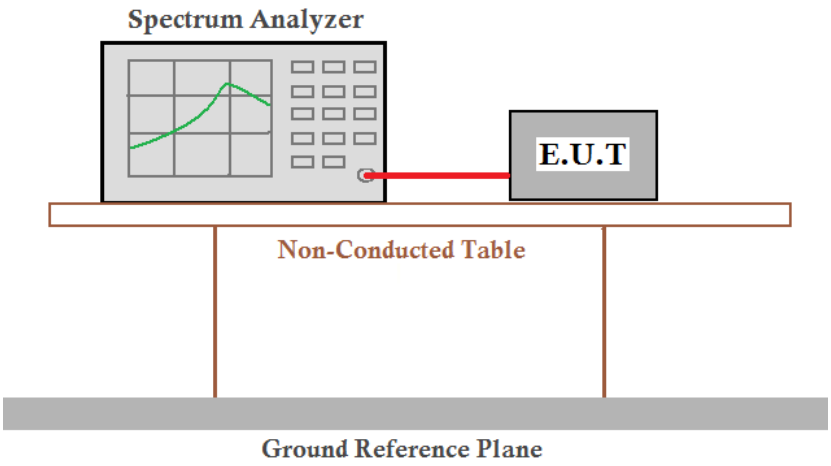
4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

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

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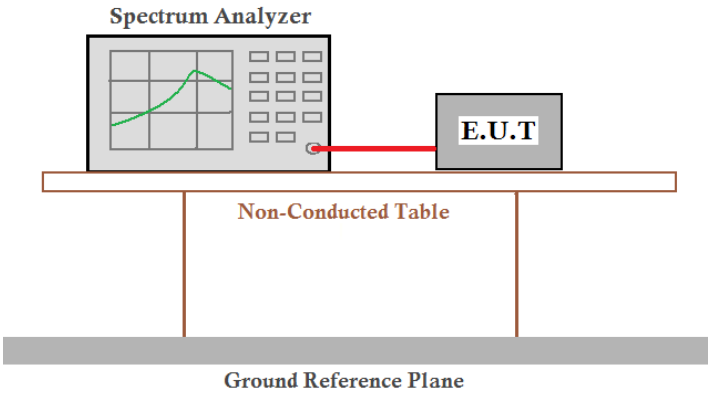
4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	

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

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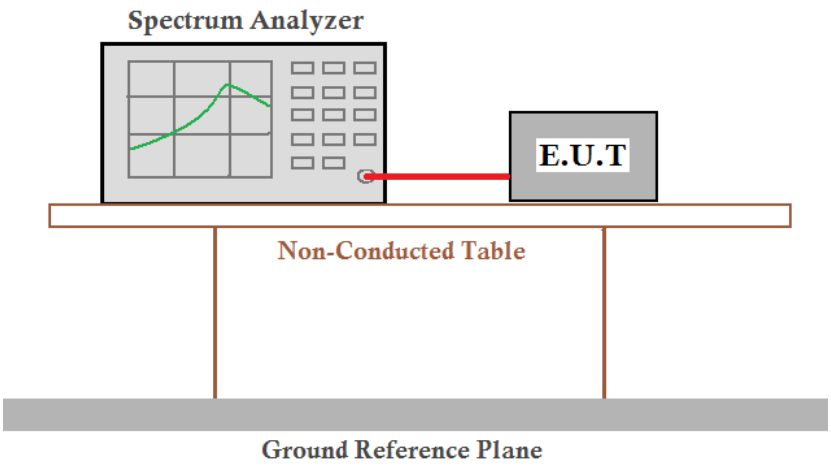
4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

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

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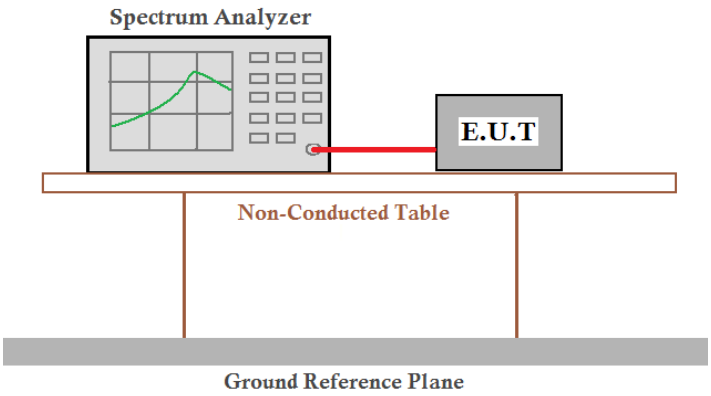
4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v02r01, Section F.	
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	

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

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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

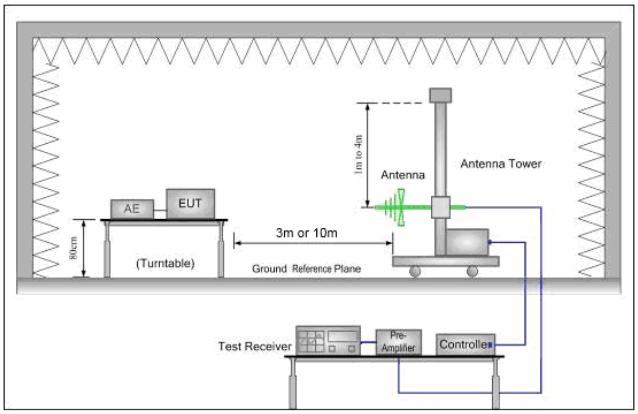

Figure 1. 30MHz to 1GHz

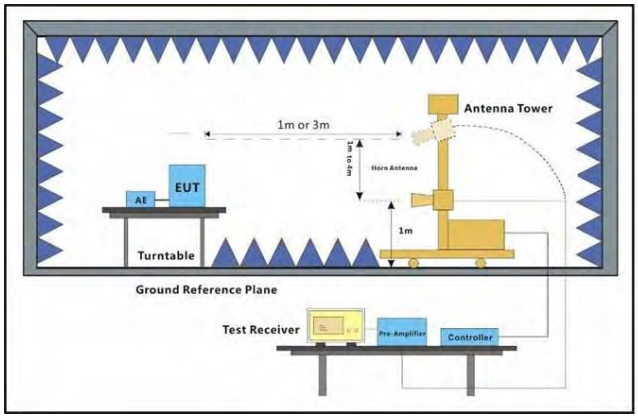

Figure 2. Above 1 GHz

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

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	Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a 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**

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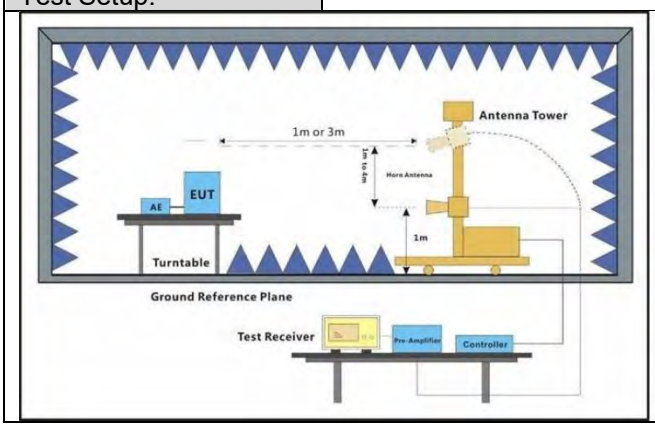
4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (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:			



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Test Procedure:	The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 Test the EUT in the outermost channels. 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. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). 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**

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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.000705	5825.008426
V max(V)	5180.001317	5825.008760
V min(V)	5180.010234	5825.012189
Max. Deviation Frequency	0.010234	0.012189
Max. Frequency Error (ppm)	1.975616	2.092617

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.008484	5825.005772
5	5180.014657	5825.012751
15	5180.019942	5825.022148
25	5180.027583	5825.030546
35	5180.028780	5825.040286
45	5180.033842	5825.044881
50	5180.035248	5825.053726
Max. Deviation Frequency	0.035248	0.053726
Max. Frequency Error (ppm)	6.804669	9.223420

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-63.39	-62.00	PASS
	5500	Type0	-62.15	-62.00	PASS
11AC80SISO	5290	Type0	-62.64	-62.00	PASS
	5530	Type0	-62.35	-62.00	PASS

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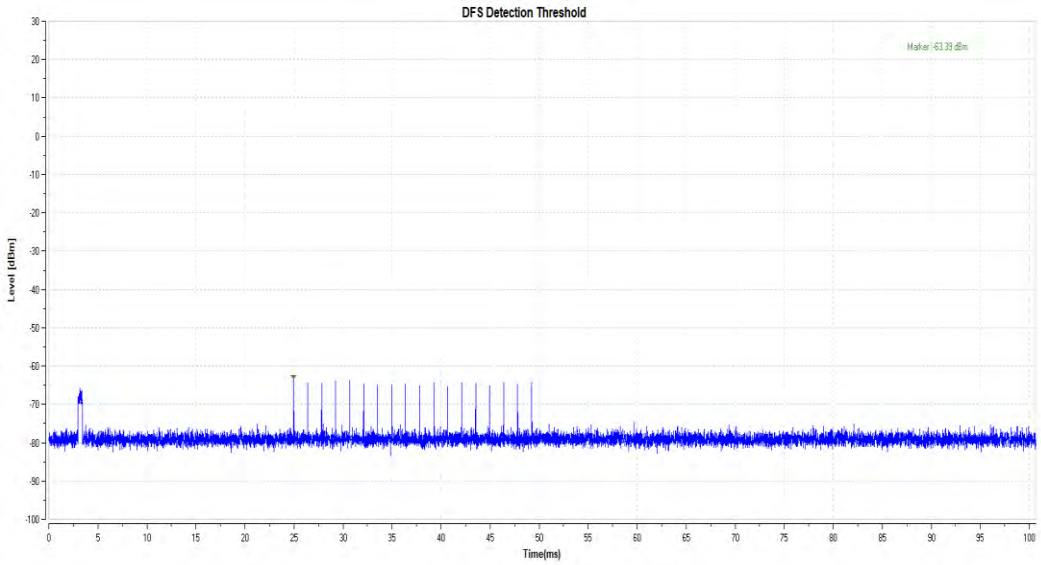
4.12.4.1.2 Test Graphs

11AC20SISO_5320_Type0



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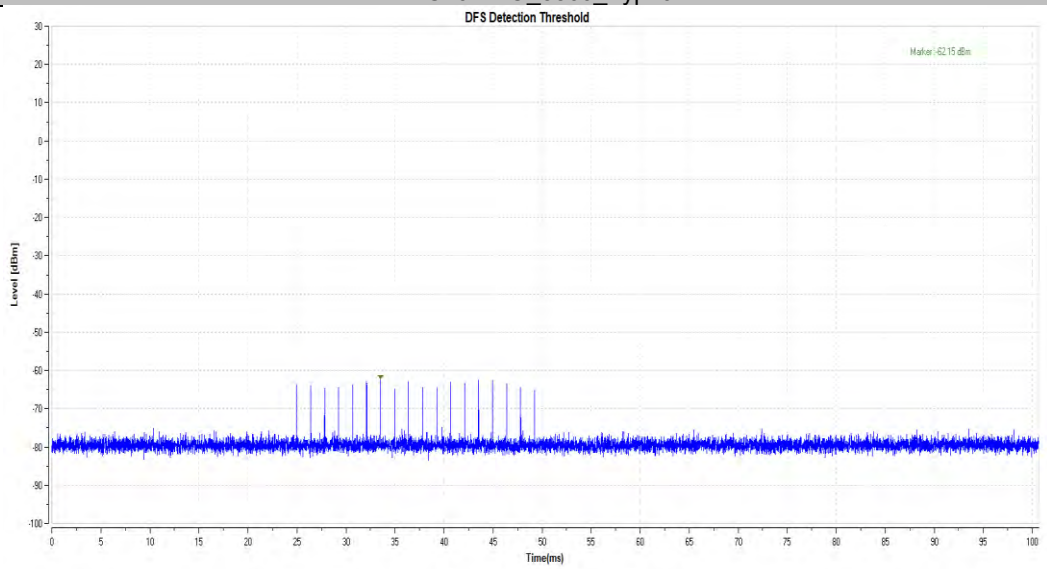

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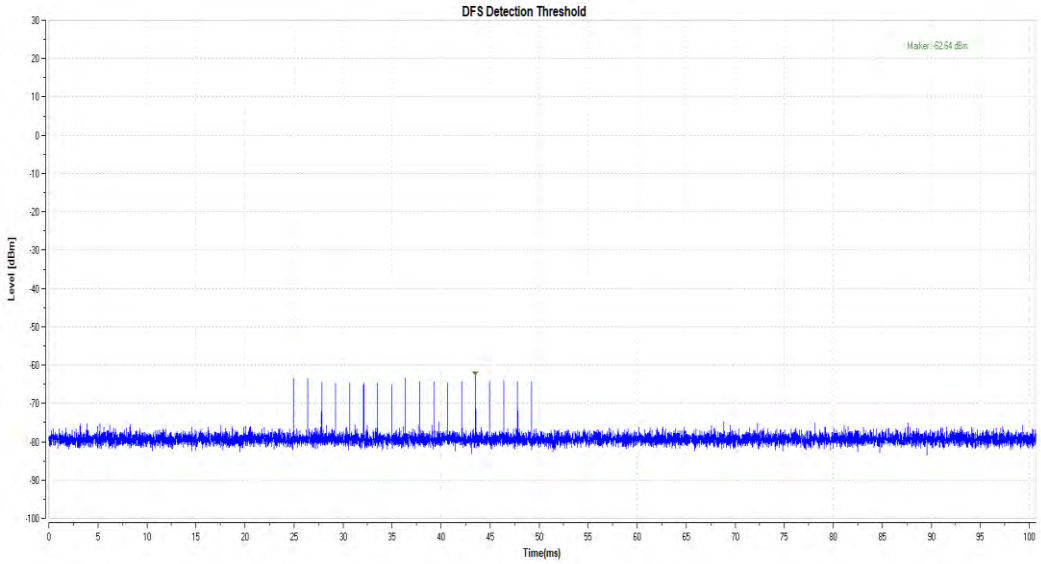

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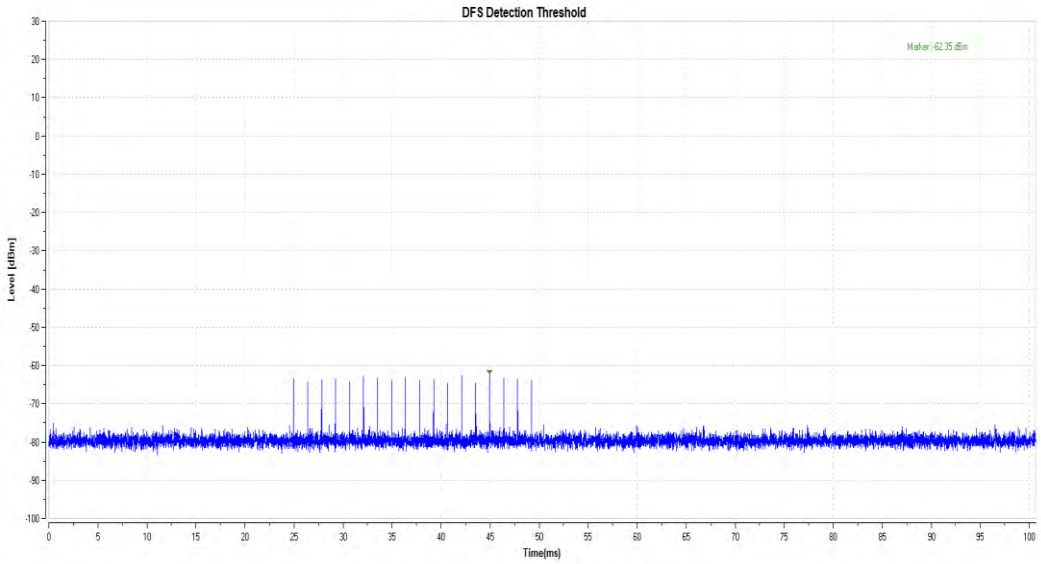

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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	9.46	60	428.71	10000	PASS
	5500	29.67	60	734.87	10000	PASS
11AC80SISO	5290	32.25	60	856.99	10000	PASS
	5530	24.94	60	779.16	10000	PASS

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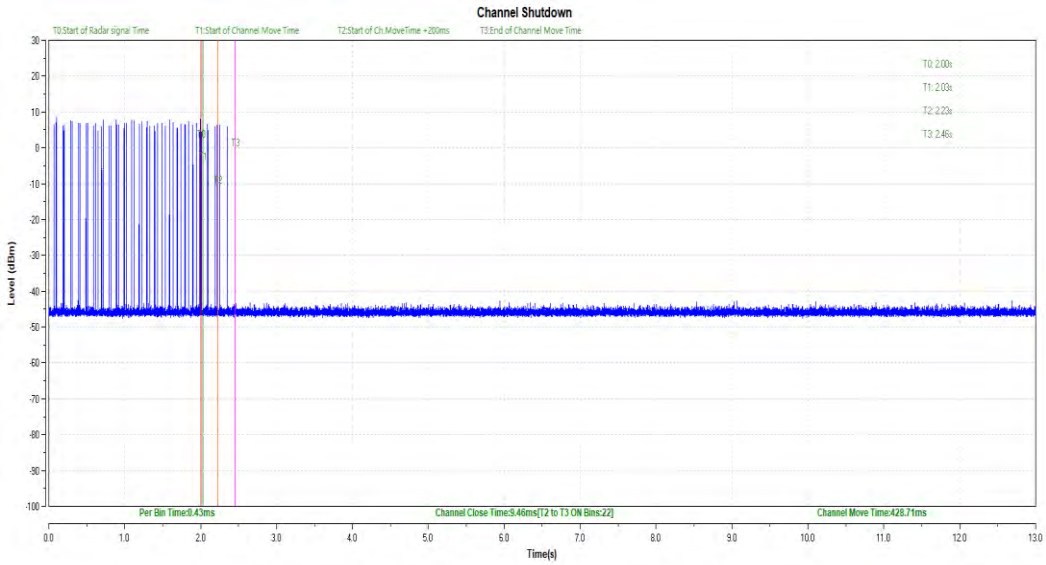
4.12.4.2.2 Test Graphs

11AC20SISO_5320



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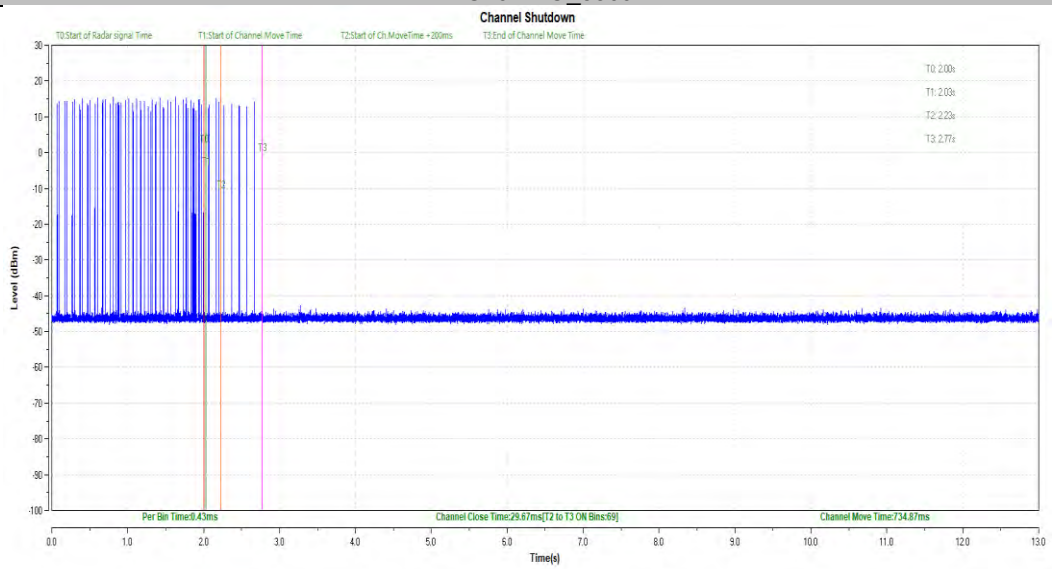

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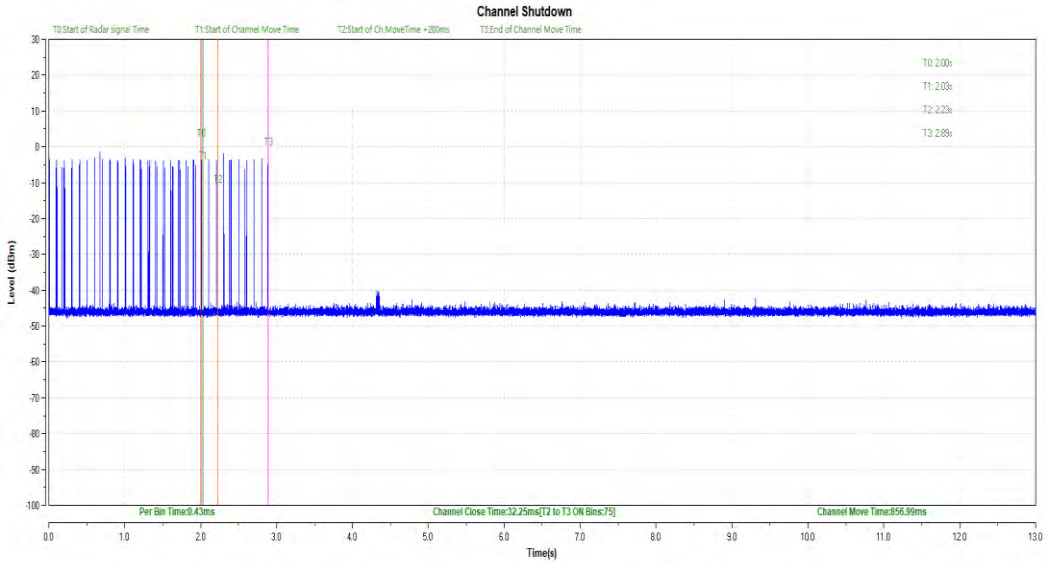
11AC80SISO_5290



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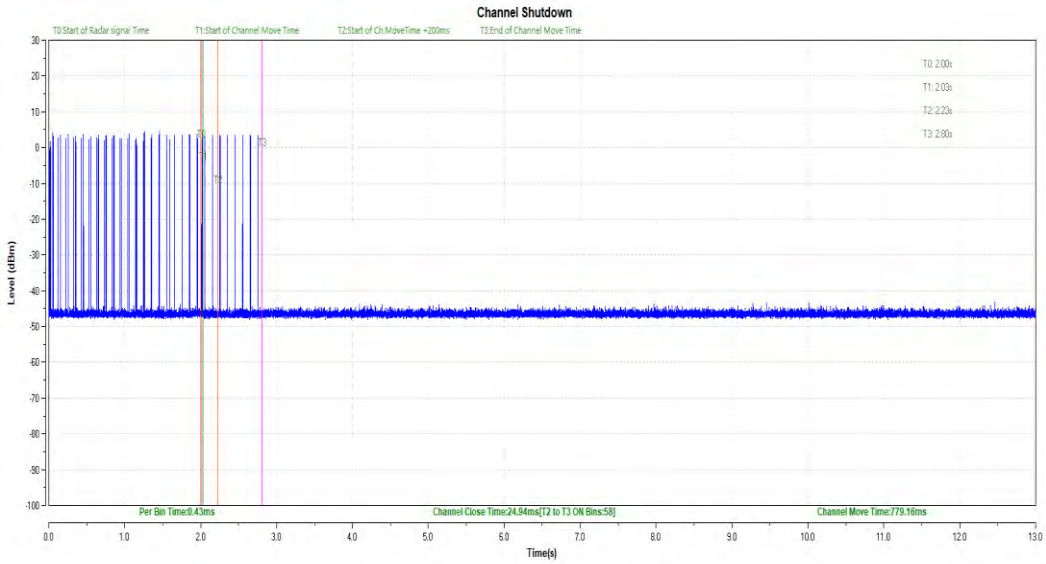

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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

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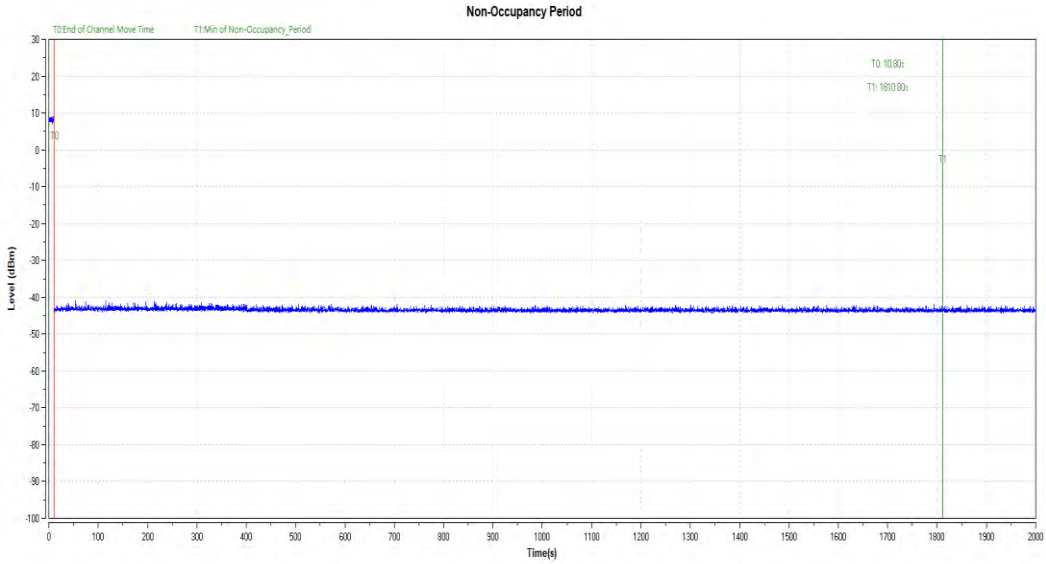
11AC20SISO_5320



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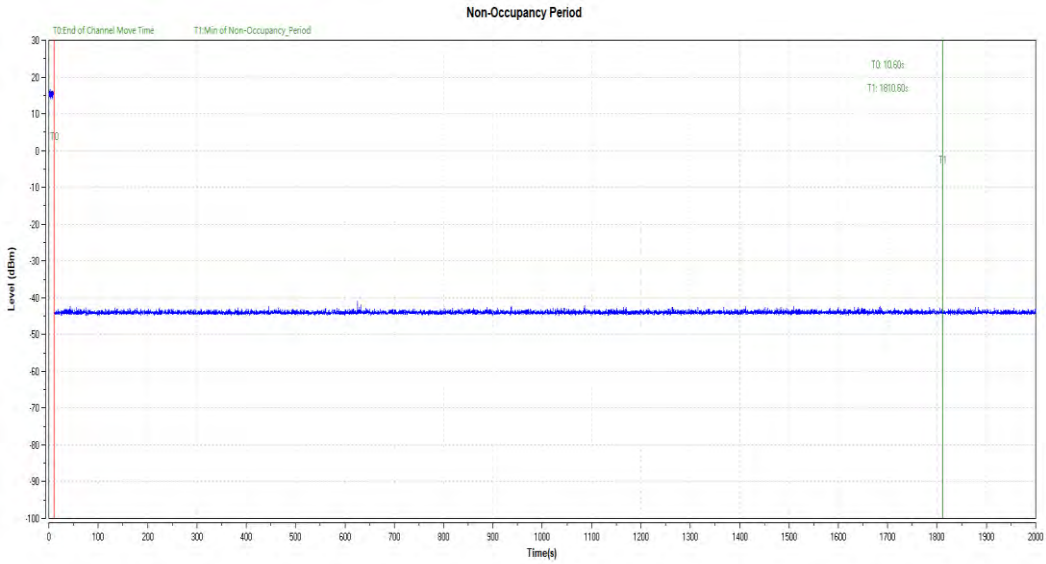

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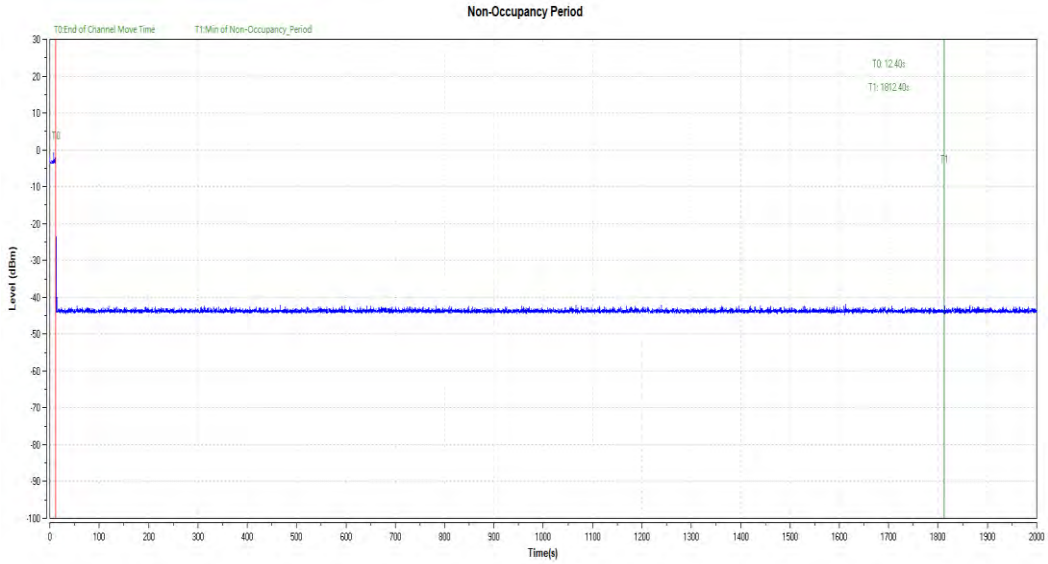
11AC80SISO_5290



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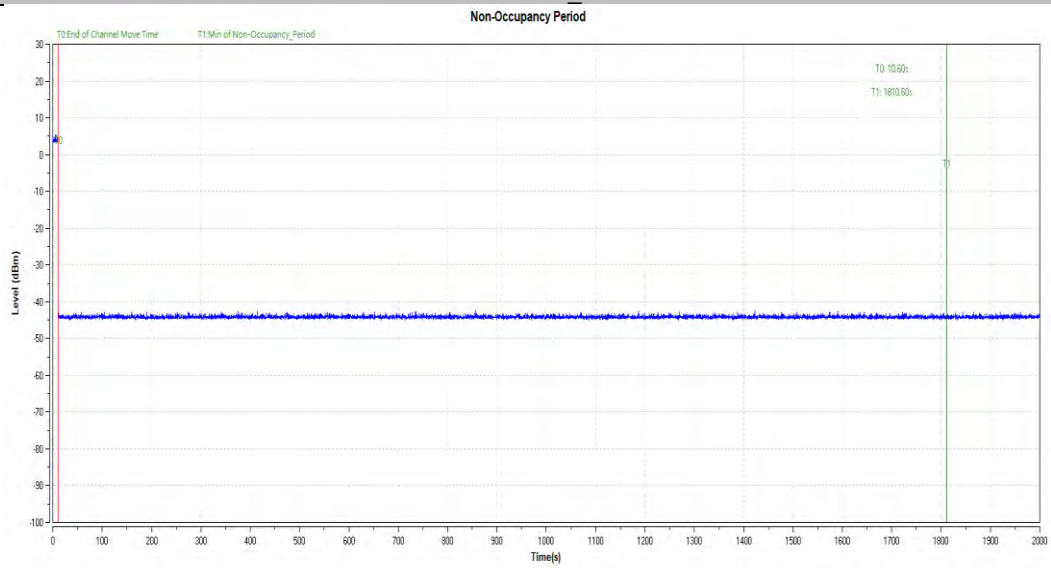

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5 Measurement Uncertainty (95% confidence levels, k=2)

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 10-8
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

DFS					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A
MXA signal analyzer	Angilent	N9020A	XAW01-06-07	2021/4/1	2022/03/31
MXG vector signal Generator	Angilent	N5182B	XAW01-07-16	2021/4/1	2022/03/31
MXG vector signal Generator	Angilent	N5182A	XAW01-07-17	2021/4/1	2022/03/31

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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
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2021-04-01	2022-03-31
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.

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Appendix

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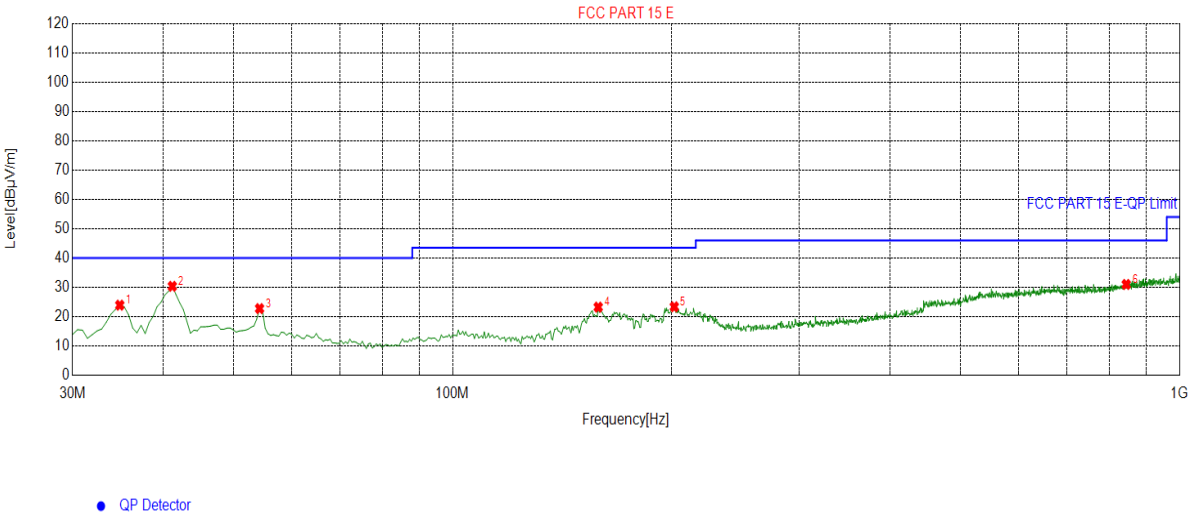
Radiated Spurious Emissions

Radiated emission below 1GHz

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8524	23.91	-23.95	40.00	16.09	174	171	Horizontal
2	41.1606	30.35	-22.13	40.00	9.65	168	89	Horizontal
3	54.2621	22.76	-22.00	40.00	17.24	167	236	Horizontal
4	158.589	23.25	-25.58	43.50	20.25	245	245	Horizontal
5	201.775	23.35	-22.38	43.50	20.15	224	231	Horizontal
6	844.237	30.99	-8.51	46.00	15.01	198	219	Horizontal

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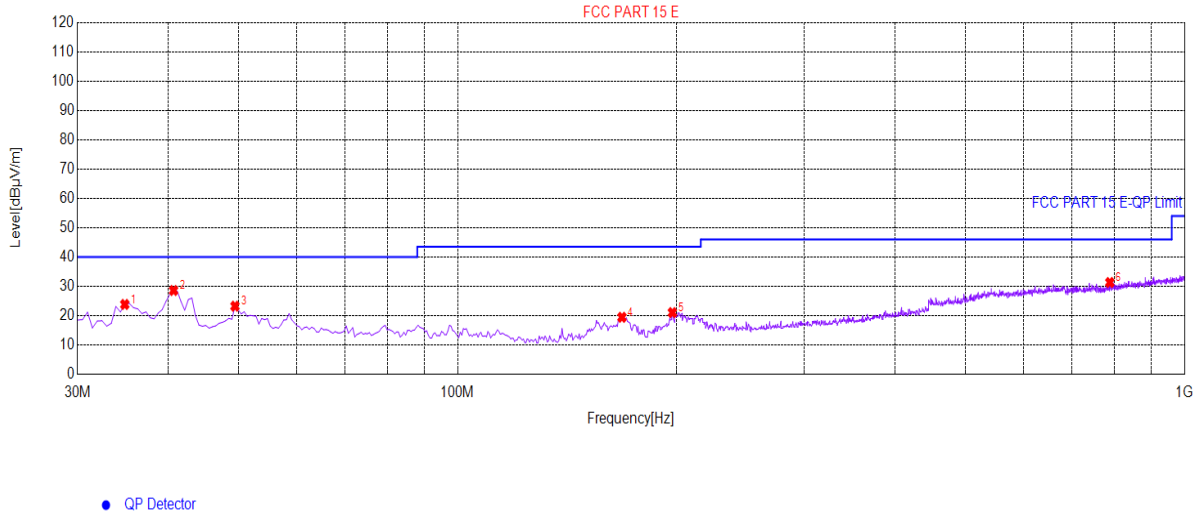
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8524	23.83	-23.95	40.00	16.17	274	190	Vertical
2	40.6753	28.58	-22.22	40.00	11.42	189	270	Vertical
3	49.4097	23.23	-21.37	40.00	16.77	167	0	Vertical
4	168.294	19.44	-25.23	43.50	24.06	274	324	Vertical
5	197.408	21.04	-22.78	43.50	22.46	189	316	Vertical
6	788.919	31.32	-9.25	46.00	14.68	241	110	Vertical

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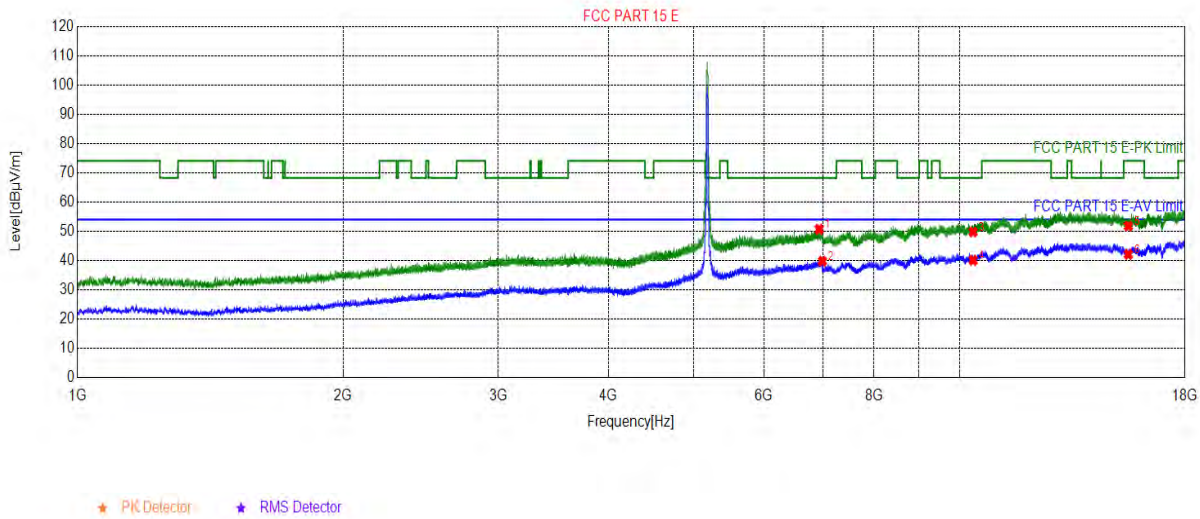
Transmitter emission above 1GHz

802.11a_Channel36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6930.99	50.67	21.42	68.20	17.53	285	31	Horizontal
2	6991.29	39.76	21.60	54.00	14.24	296	16	Horizontal
3	10360.0	49.75	-2.34	68.20	18.45	159	125	Horizontal
4	10360.0	40.07	-2.34	54.00	13.93	184	11	Horizontal
5	15540.0	51.76	2.07	74.00	22.24	274	343	Horizontal
6	15540.0	42.08	2.07	54.00	11.92	184	306	Horizontal

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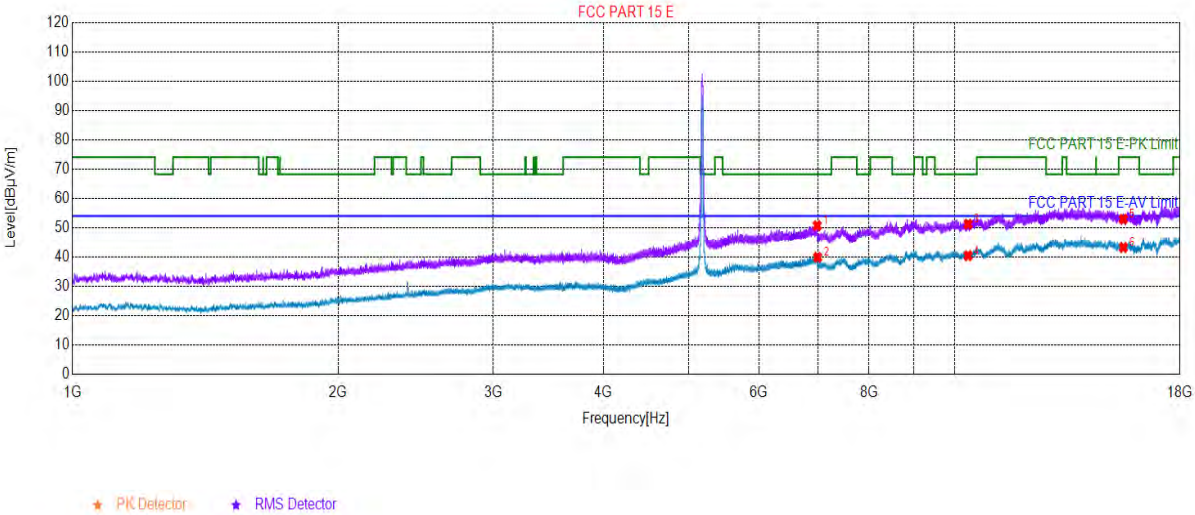
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6988.29	50.67	21.56	68.20	17.53	174	326	Vertical
2	6994.59	39.93	21.61	54.00	14.07	185	360	Vertical
3	10360.0	51.22	-2.34	68.20	16.98	231	306	Vertical
4	10360.0	40.43	-2.34	54.00	13.57	261	185	Vertical
5	15540.0	52.90	2.07	74.00	21.10	291	261	Vertical
6	15540.0	43.27	2.07	54.00	10.73	248	147	Vertical

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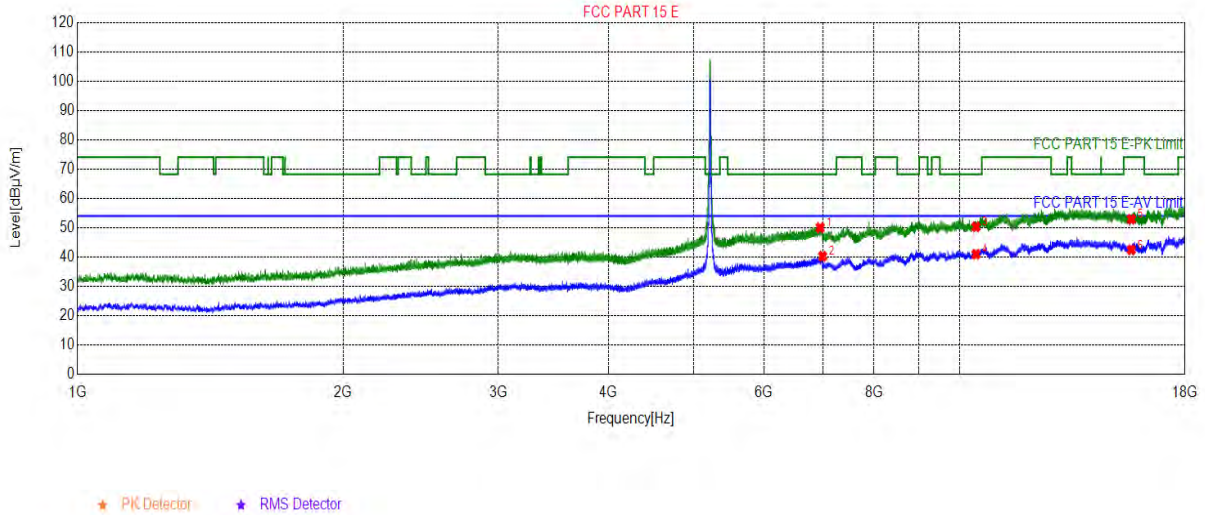
Test Graph



Suspected List

Suspected List								
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1	6950.49	50.00	21.20	68.20	18.20	174	325	Horizontal
2	6995.79	40.26	21.62	54.00	13.74	185	95	Horizontal
3	10440.0	50.28	-2.03	68.20	17.92	196	154	Horizontal
4	10440.0	40.95	-2.03	54.00	13.05	231	321	Horizontal
5	15660.0	52.85	1.53	74.00	21.15	262	233	Horizontal
6	15660.0	42.41	1.53	54.00	11.59	174	6	Horizontal

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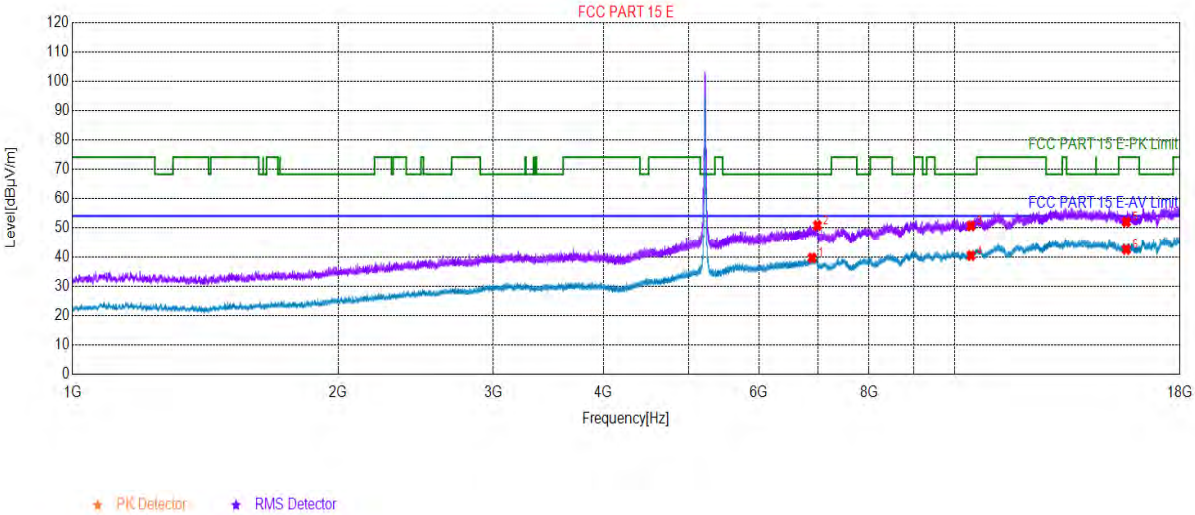
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6895.59	39.71	21.31	54.00	14.29	174	212	Vertical
2	6993.39	50.72	21.61	68.20	17.48	185	2	Vertical
3	10440.0	50.58	-2.03	68.20	17.62	196	231	Vertical
4	10440.0	40.50	-2.03	54.00	13.50	258	42	Vertical
5	15660.0	51.94	1.53	74.00	22.06	231	201	Vertical
6	15660.0	42.62	1.53	54.00	11.38	261	170	Vertical

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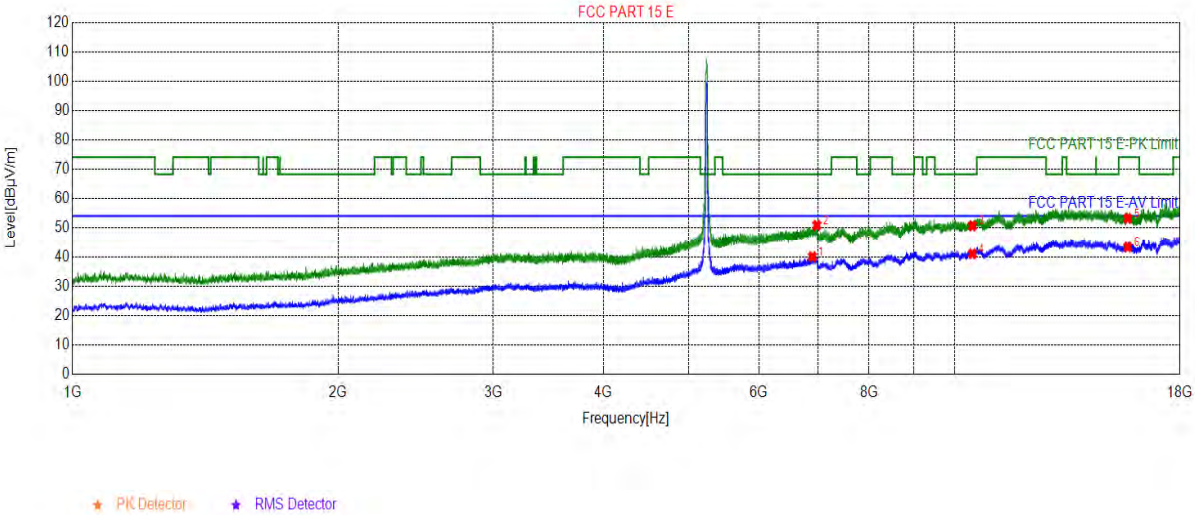
Test Graph



Suspected List

Suspected List								
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1	6900.69	40.09	21.53	54.00	13.91	174	142	Horizontal
2	6981.99	50.79	21.43	68.20	17.41	185	157	Horizontal
3	10480.0	50.63	-1.93	68.20	17.57	258	1	Horizontal
4	10480.0	41.11	-1.93	54.00	12.89	296	304	Horizontal
5	15720.0	53.15	1.46	74.00	20.85	284	256	Horizontal
6	15720.0	43.46	1.46	54.00	10.54	213	240	Horizontal

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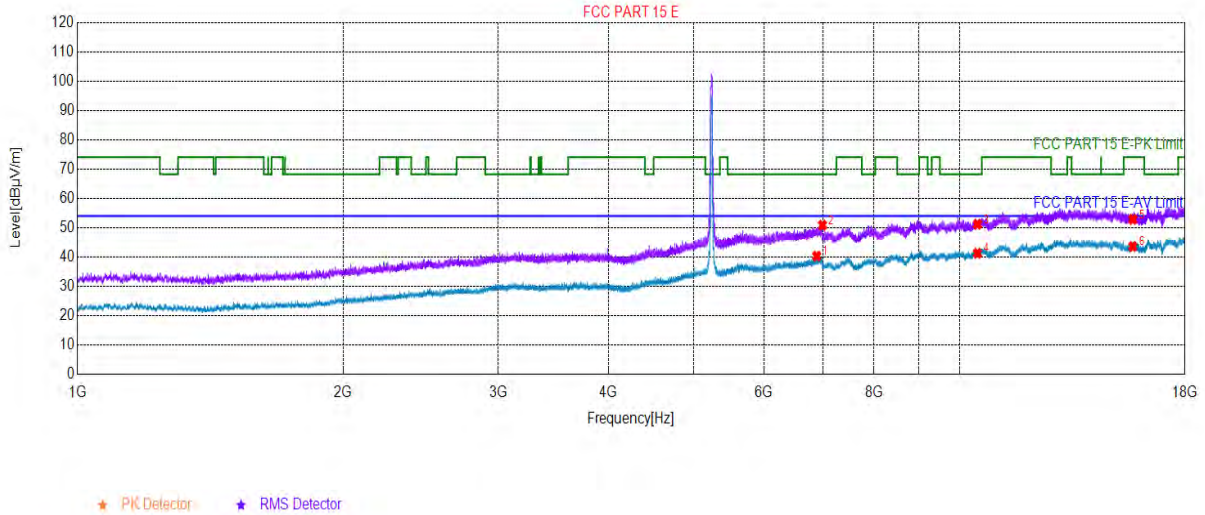
802.11a_Channel 48

Test Graph



Suspected List

Suspected List								
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1	6888.69	40.32	21.06	54.00	13.68	185	31	Vertical
2	6993.99	50.83	21.61	68.20	17.37	196	152	Vertical
3	10480.0	51.16	-1.93	68.20	17.04	174	328	Vertical
4	10480.0	41.26	-1.93	54.00	12.74	213	78	Vertical
5	15720.0	52.81	1.46	74.00	21.19	261	291	Vertical
6	15720.0	43.59	1.46	54.00	10.41	281	146	Vertical

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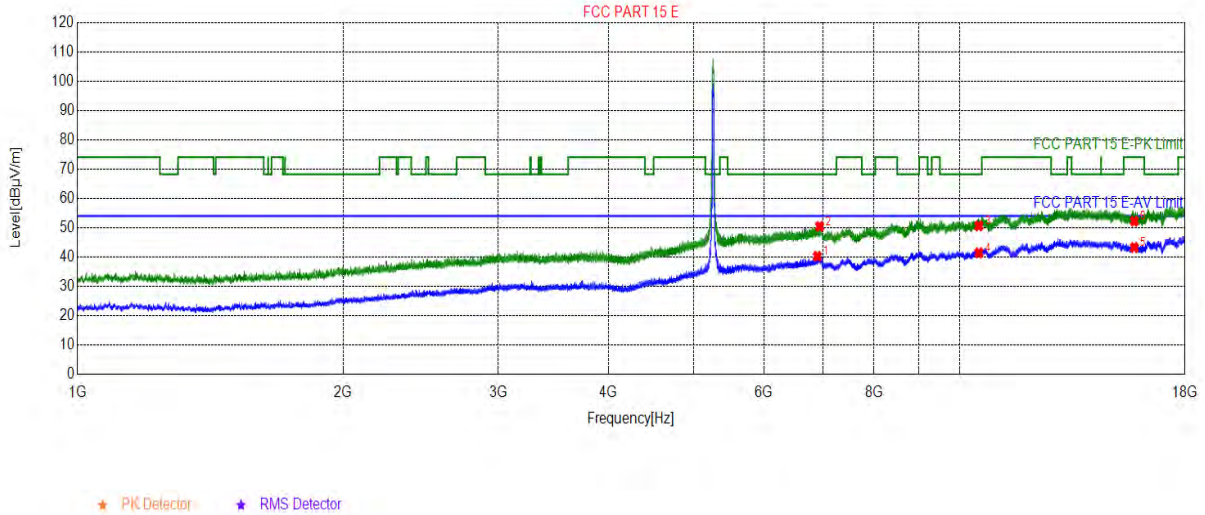
802.11a_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.79	40.23	21.54	54.00	13.77	174	242	Horizontal
2	6941.79	50.43	21.43	68.20	17.77	185	118	Horizontal
3	10520.0	50.62	-1.91	68.20	17.58	196	188	Horizontal
4	10520.0	41.42	-1.91	54.00	12.58	231	236	Horizontal
5	15780.0	43.21	1.54	54.00	10.79	291	291	Horizontal
6	15780.0	52.21	1.54	74.00	21.79	258	212	Horizontal

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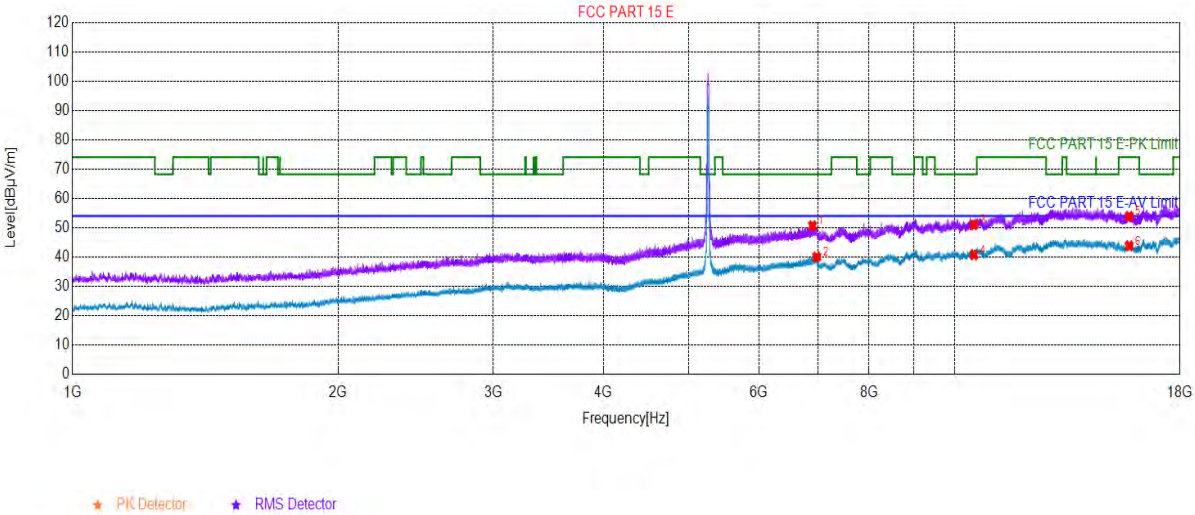
802.11a _Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6902.19	50.66	21.47	68.20	17.54	174	347	Vertical
2	6979.89	40.01	21.39	54.00	13.99	185	234	Vertical
3	10520.0	50.95	-1.91	68.20	17.25	199	305	Vertical
4	10520.0	40.74	-1.91	54.00	13.26	231	185	Vertical
5	15780.0	53.87	1.54	74.00	20.13	261	313	Vertical
6	15780.0	43.82	1.54	54.00	10.18	284	246	Vertical

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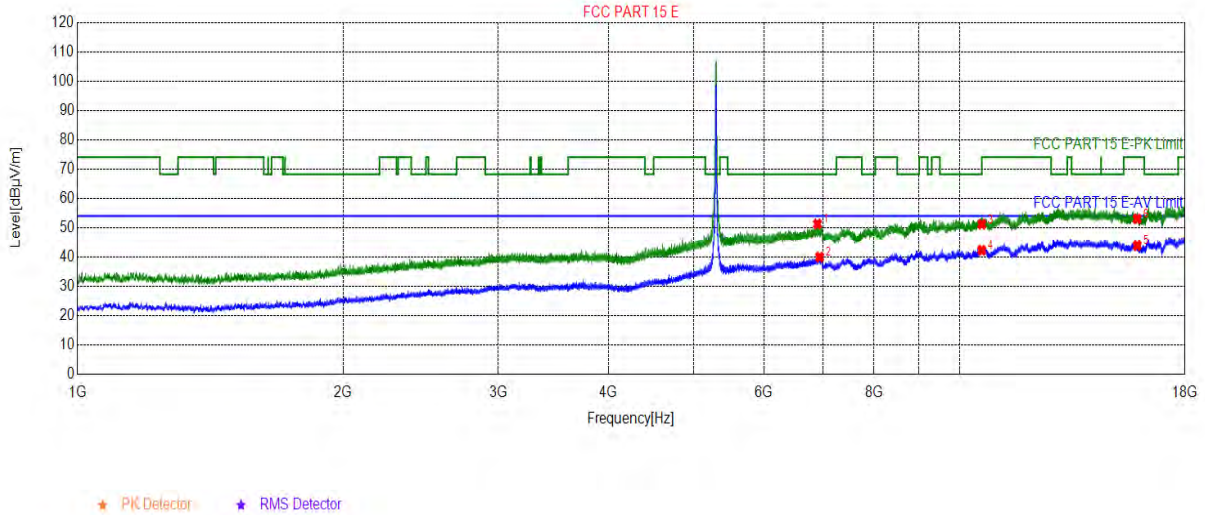
802.11a_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6901.29	51.28	21.50	68.20	16.92	174	163	Horizontal
2	6940.59	39.98	21.46	54.00	14.02	185	170	Horizontal
3	10600.0	51.16	-1.66	74.00	22.84	196	231	Horizontal
4	10600.0	42.31	-1.66	54.00	11.69	213	352	Horizontal
5	15900.0	43.94	1.46	54.00	10.06	262	171	Horizontal
6	15900.0	53.00	1.46	74.00	21.00	281	306	Horizontal

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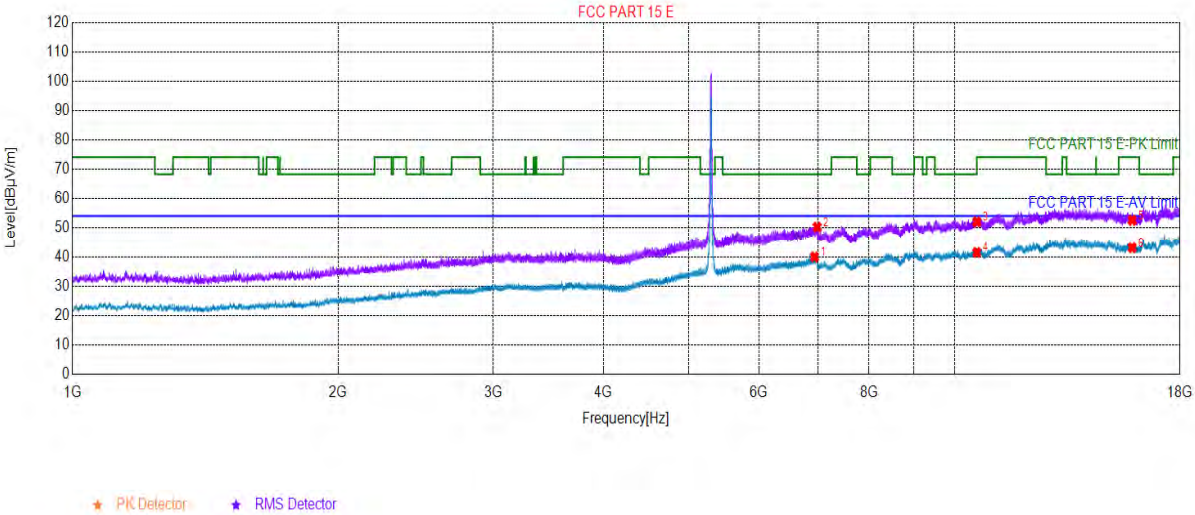
802.11a _Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6936.39	40.02	21.46	54.00	13.98	185	114	Vertical
2	6987.09	50.18	21.53	68.20	18.02	196	280	Vertical
3	10600.0	52.00	-1.66	74.00	22.00	321	337	Vertical
4	10600.0	41.57	-1.66	54.00	12.43	261	274	Vertical
5	15900.0	52.50	1.46	74.00	21.50	274	358	Vertical
6	15900.0	43.19	1.46	54.00	10.81	254	352	Vertical

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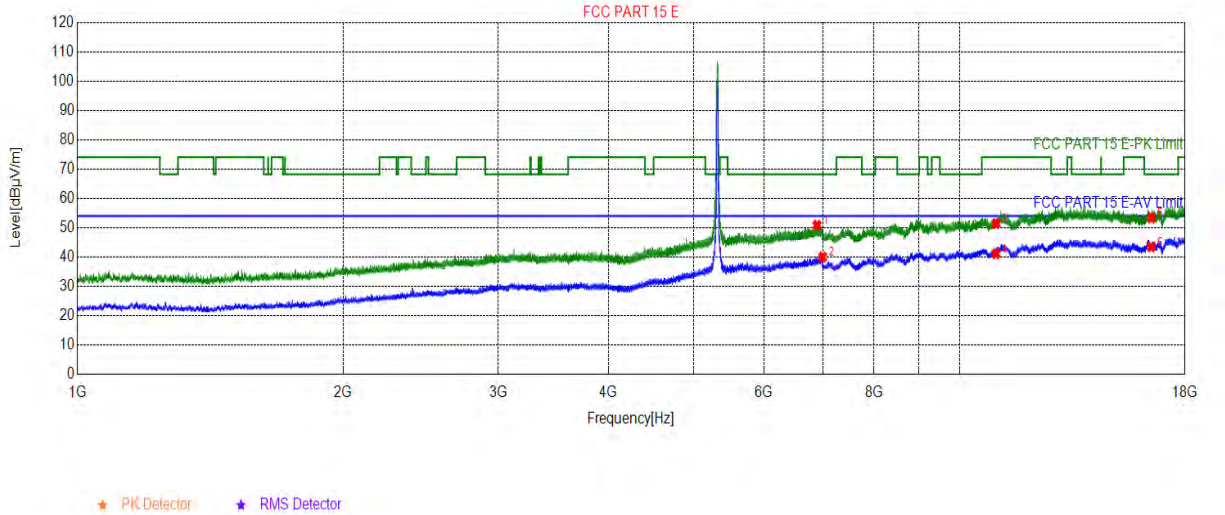
802.11a _Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6894.69	50.81	21.26	68.20	17.39	185	144	Horizontal
2	6996.09	40.00	21.62	54.00	14.00	196	317	Horizontal
3	11000.0	51.42	-0.75	74.00	22.58	213	141	Horizontal
4	11000.0	41.14	-0.75	54.00	12.86	262	36	Horizontal
5	16500.0	53.31	0.43	68.20	14.89	247	246	Horizontal
6	16500.0	43.45	0.43	54.00	10.55	284	66	Horizontal

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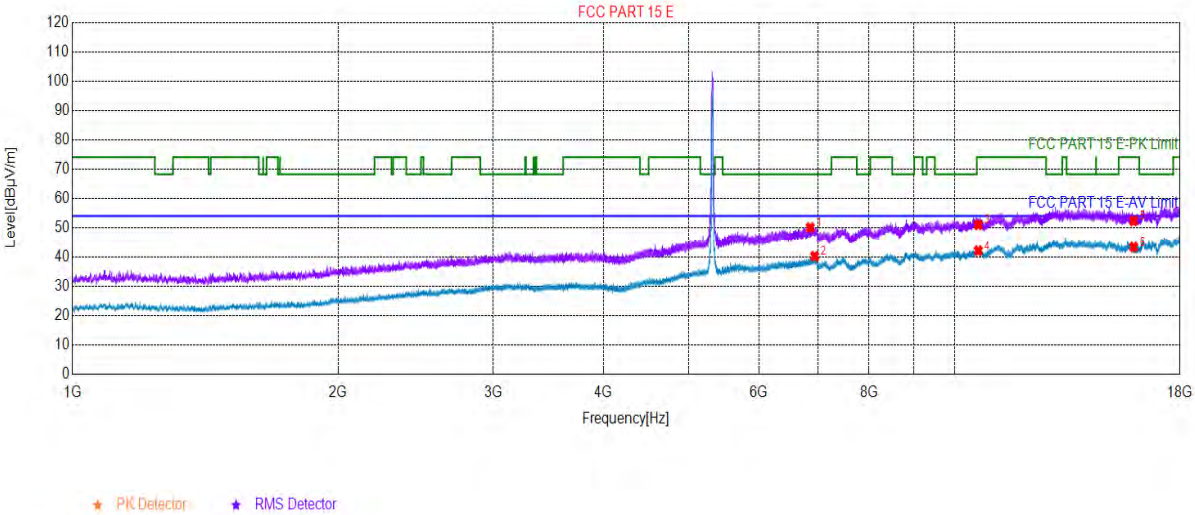
802.11a_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6861.69	50.02	21.31	68.20	18.18	258	348	Vertical
2	6942.09	40.26	21.42	54.00	13.74	274	340	Vertical
3	10640.0	50.96	-1.85	74.00	23.04	296	89	Vertical
4	10640.0	42.15	-1.85	54.00	11.85	264	171	Vertical
5	15960.0	52.28	0.90	74.00	21.72	251	20	Vertical
6	15960.0	43.44	0.90	54.00	10.56	321	276	Vertical

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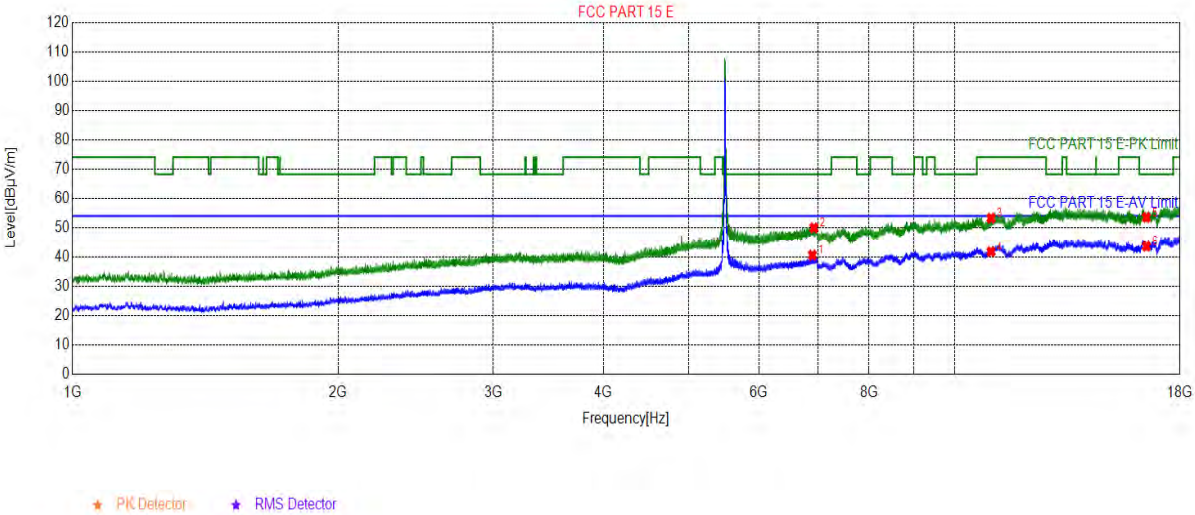
802.11a _Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.99	40.65	21.52	54.00	13.35	174	115	Horizontal
2	6927.69	49.93	21.36	68.20	18.27	185	360	Horizontal
3	11000.0	53.24	-0.75	74.00	20.76	258	19	Horizontal
4	11000.0	41.83	-0.75	54.00	12.17	296	87	Horizontal
5	16500.0	53.48	0.43	68.20	14.72	231	254	Horizontal
6	16500.0	43.72	0.43	54.00	10.28	261	246	Horizontal

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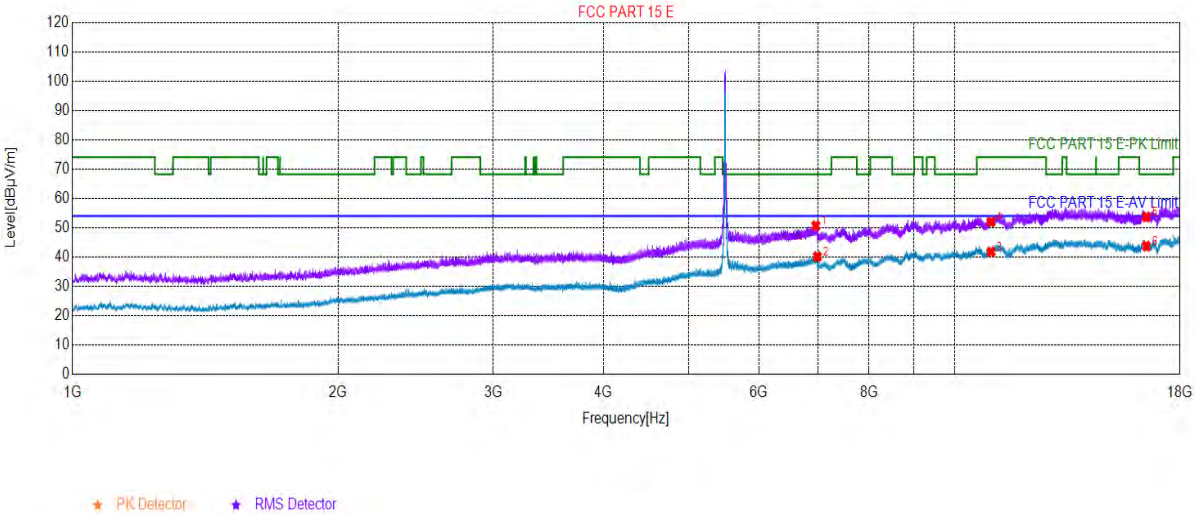
802.11a _Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6963.09	50.64	21.12	68.20	17.56	185	38	Vertical
2	6990.69	40.12	21.59	54.00	13.88	196	220	Vertical
3	11000.0	41.77	-0.75	54.00	12.23	258	64	Vertical
4	11000.0	51.93	-0.75	74.00	22.07	296	94	Vertical
5	16500.0	53.63	0.43	68.20	14.57	123	291	Vertical
6	16500.0	43.70	0.43	54.00	10.30	261	56	Vertical

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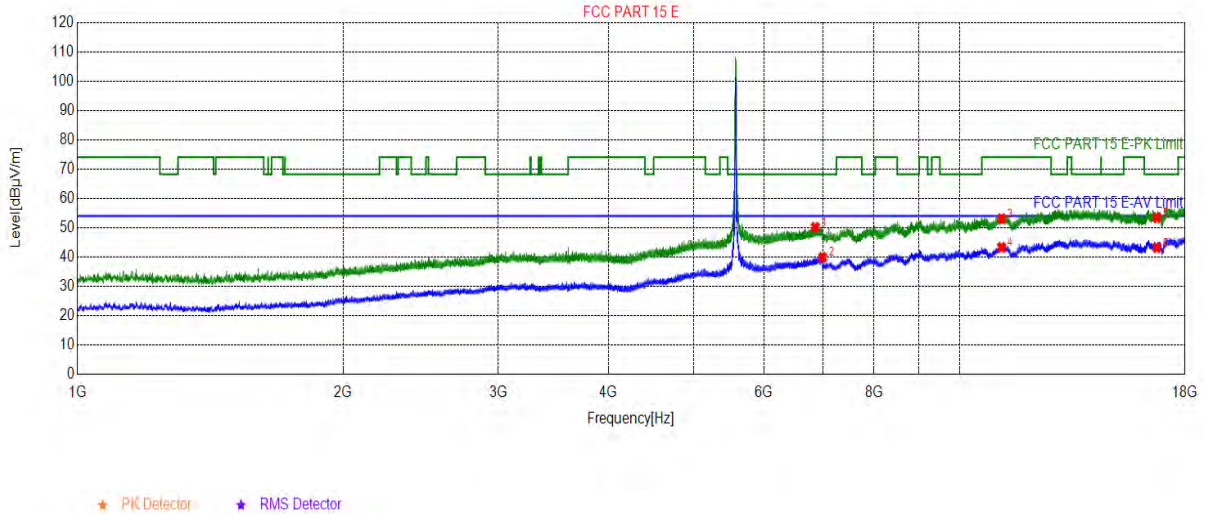
802.11a _Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6862.29	50.14	21.27	68.20	18.06	174	94	Horizontal
2	6995.19	39.88	21.62	54.00	14.12	185	349	Horizontal
3	11160.0	53.08	-0.59	74.00	20.92	321	180	Horizontal
4	11160.0	43.28	-0.59	54.00	10.72	261	256	Horizontal
5	16740.0	53.38	0.86	68.20	14.82	291	150	Horizontal
6	16740.0	43.15	0.86	54.00	10.85	156	248	Horizontal

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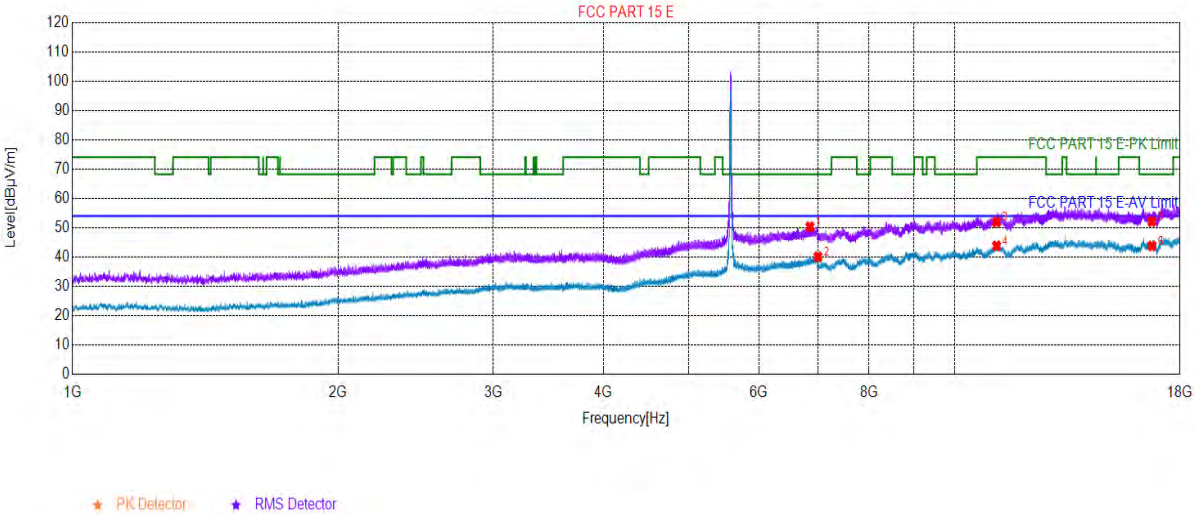
Test Graph



Suspected List

Suspected List								
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1	6856.89	50.30	21.39	68.20	17.90	159	204	Vertical
2	7000.00	40.07	21.64	54.00	13.93	258	212	Vertical
3	11160.0	51.92	-0.59	74.00	22.08	196	238	Vertical
4	11160.0	43.80	-0.59	54.00	10.20	231	94	Vertical
5	16740.0	52.07	0.86	68.20	16.13	262	268	Vertical
6	16740.0	43.75	0.86	54.00	10.25	254	102	Vertical

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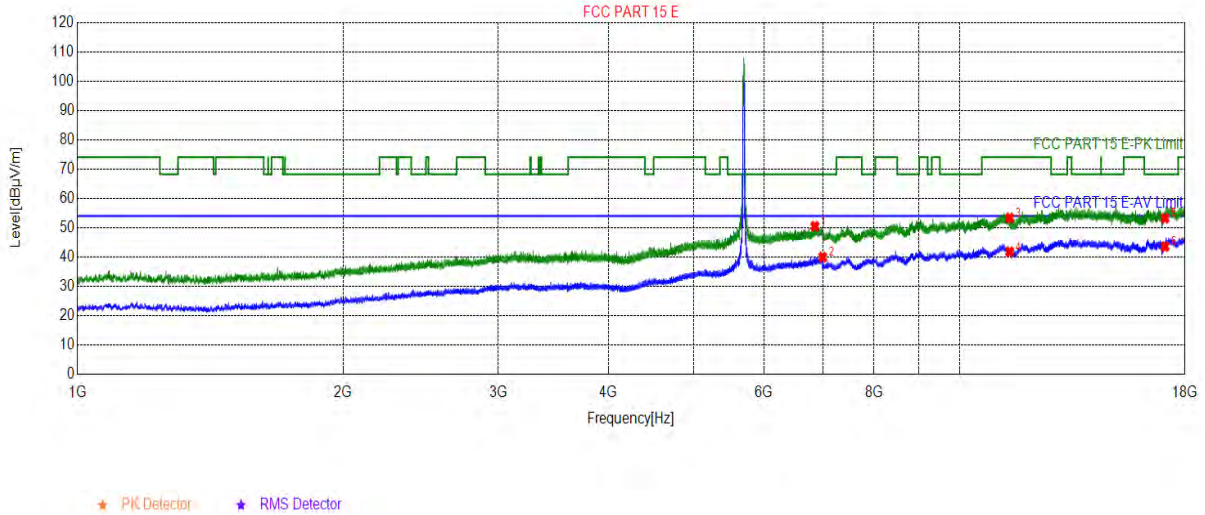
802.11a _Channel 140

Test Graph



Suspected List

Suspected List								
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1	6855.69	50.45	21.38	68.20	17.75	185	325	Horizontal
2	6996.09	39.95	21.62	54.00	14.05	185	210	Horizontal
3	11400.0	53.32	-0.52	74.00	20.68	196	115	Horizontal
4	11400.0	41.76	-0.52	54.00	12.24	231	153	Horizontal
5	17100.0	53.20	-0.56	68.20	15.00	265	76	Horizontal
6	17100.0	43.56	-0.56	54.00	10.44	248	58	Horizontal

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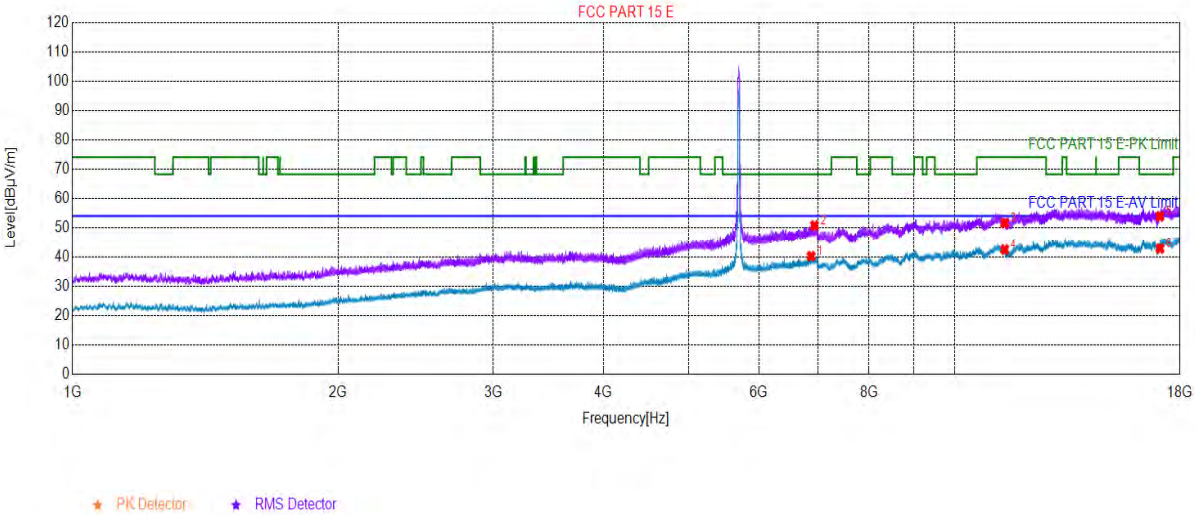
802.11a _Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6877.29	40.27	21.29	54.00	13.73	185	100	Vertical
2	6937.29	50.71	21.46	68.20	17.49	196	77	Vertical
3	11400.0	51.54	-0.52	74.00	22.46	231	321	Vertical
4	11400.0	42.55	-0.52	54.00	11.45	262	4	Vertical
5	17100.0	53.87	-0.56	68.20	14.33	257	125	Vertical
6	17100.0	42.92	-0.56	54.00	11.08	274	26	Vertical

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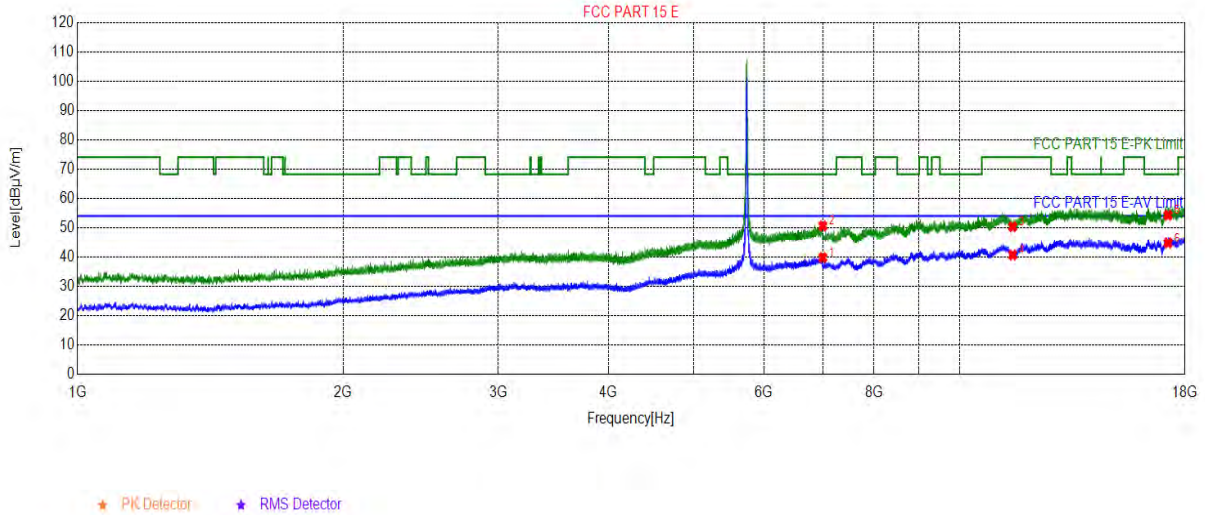
Test Graph



Suspected List

Suspected List								
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1	6998.19	39.76	21.63	54.00	14.24	174	250	Horizontal
2	6999.40	50.59	21.64	68.20	17.61	185	122	Horizontal
3	11490.0	50.31	-0.61	74.00	23.69	321	292	Horizontal
4	11490.0	40.68	-0.61	54.00	13.32	162	304	Horizontal
5	17235.0	54.25	0.36	68.20	13.95	258	78	Horizontal
6	17235.0	44.80	0.36	54.00	9.20	291	71	Horizontal

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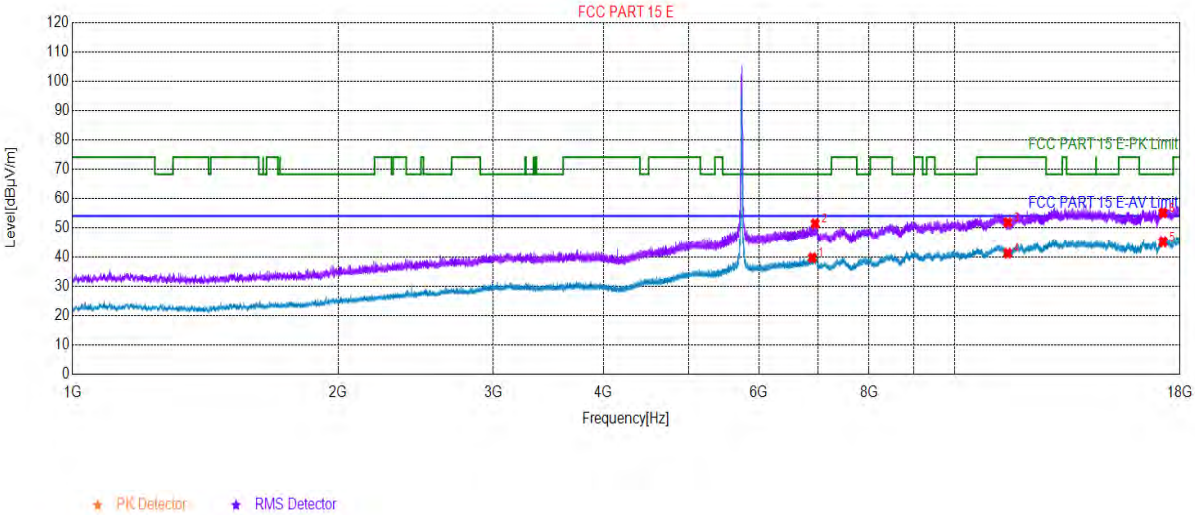
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.19	39.74	21.51	54.00	14.26	174	46	Vertical
2	6951.09	51.34	21.19	68.20	16.86	185	61	Vertical
3	11490.0	51.75	-0.61	74.00	22.25	231	267	Vertical
4	11490.0	41.31	-0.61	54.00	12.69	262	219	Vertical
5	17235.0	45.14	0.36	54.00	8.86	291	344	Vertical
6	17235.0	55.06	0.36	68.20	13.14	254	219	Vertical

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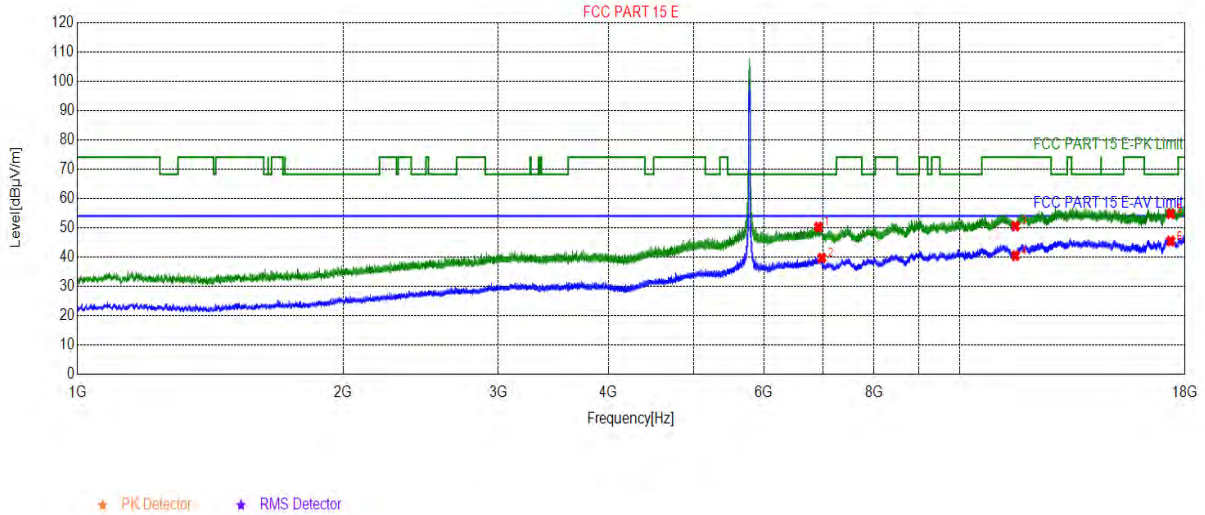
Test Graph



Suspected List

Suspected List								
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1	6919.29	50.22	21.16	68.20	17.98	174	85	Horizontal
2	6982.29	39.67	21.44	54.00	14.33	185	222	Horizontal
3	11570.0	50.54	-0.41	74.00	23.46	231	0	Horizontal
4	11570.0	40.48	-0.41	54.00	13.52	269	254	Horizontal
5	17355.0	54.70	1.22	68.20	13.50	284	224	Horizontal
6	17355.0	45.45	1.22	54.00	8.55	242	47	Horizontal

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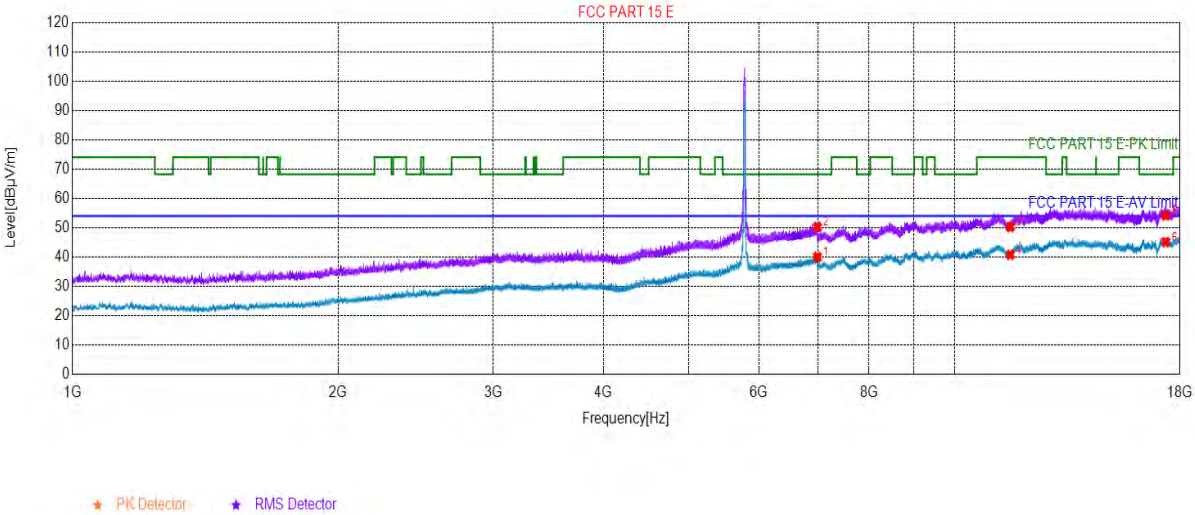
Test Graph



Suspected List

Suspected List								
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1	6991.59	40.00	21.60	54.00	14.00	171	57	Vertical
2	6991.59	50.22	21.60	68.20	17.98	125	215	Vertical
3	11570.0	50.25	-0.41	74.00	23.75	285	268	Vertical
4	11570.0	40.77	-0.41	54.00	13.23	231	185	Vertical
5	17355.0	54.15	1.22	68.20	14.05	262	185	Vertical
6	17355.0	45.09	1.22	54.00	8.91	147	215	Vertical

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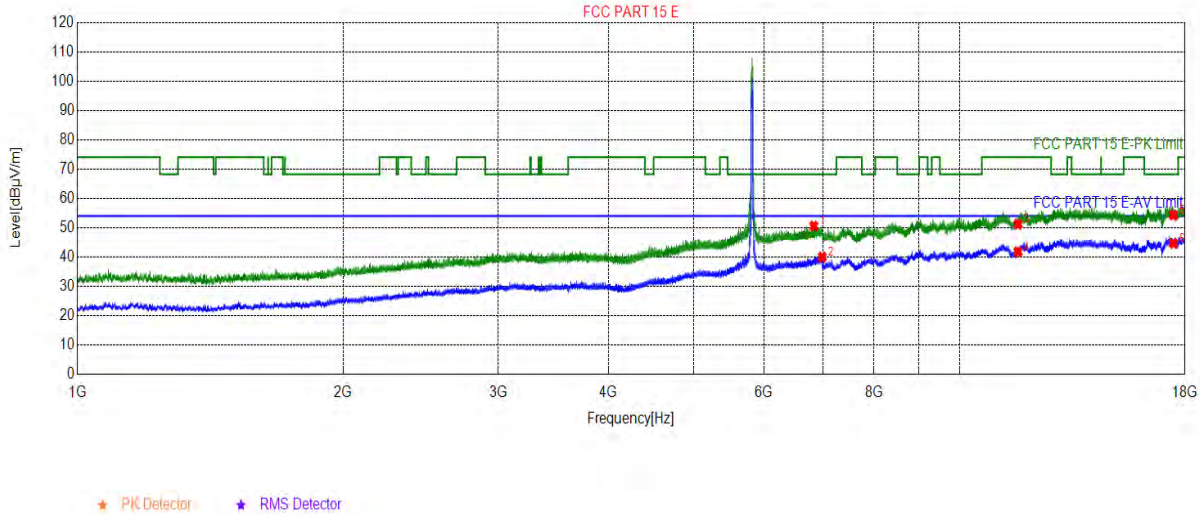
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6836.79	50.55	21.34	68.20	17.65	185	254	Horizontal
2	6988.29	39.98	21.56	54.00	14.02	196	149	Horizontal
3	11650.0	51.19	0.03	74.00	22.81	213	358	Horizontal
4	11650.0	41.79	0.03	54.00	12.21	262	134	Horizontal
5	17475.0	54.28	1.66	68.20	13.92	254	228	Horizontal
6	17475.0	44.68	1.66	54.00	9.32	174	14	Horizontal

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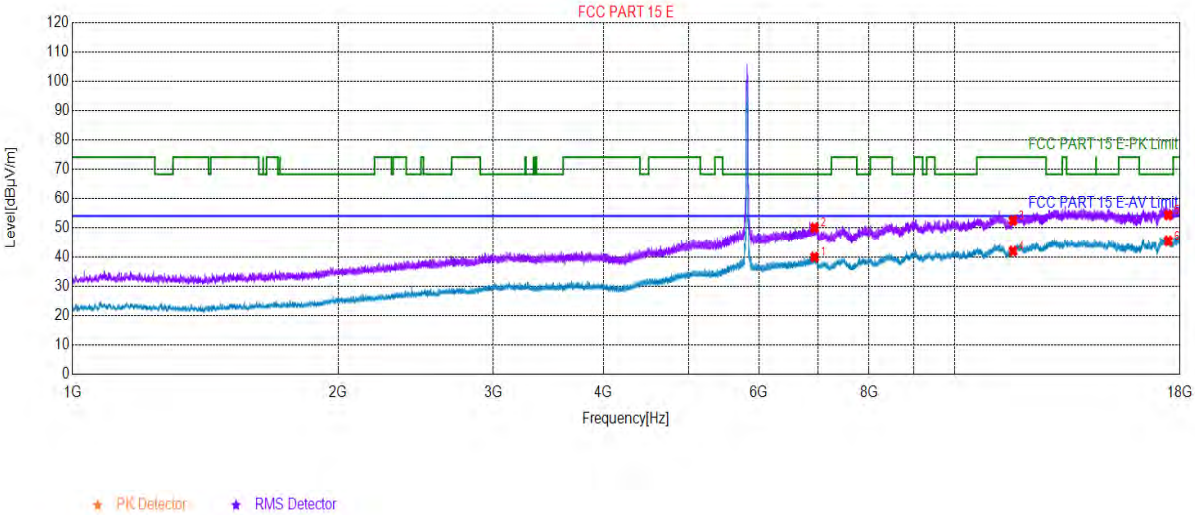
802.11a _Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6937.59	39.96	21.46	54.00	14.04	258	188	Vertical
2	6939.39	49.97	21.47	68.20	18.23	296	347	Vertical
3	11650.0	52.45	0.03	74.00	21.55	231	299	Vertical
4	11650.0	42.03	0.03	54.00	11.97	261	0	Vertical
5	17475.0	54.24	1.66	68.20	13.96	127	314	Vertical
6	17475.0	45.48	1.66	54.00	8.52	154	239	Vertical

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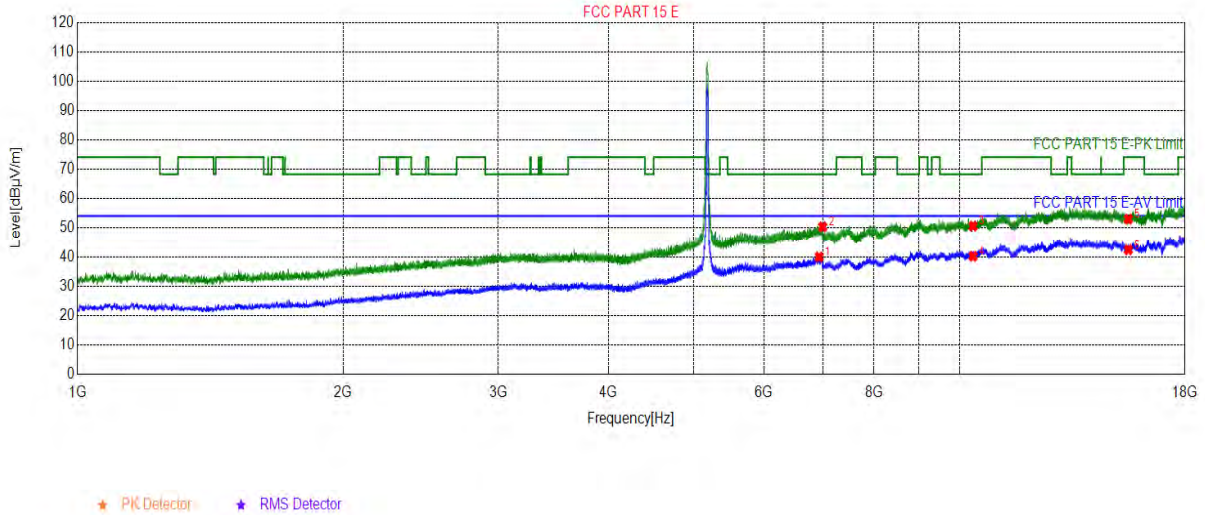
802.11n20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6932.79	40.01	21.43	54.00	13.99	174	351	Horizontal
2	6996.69	50.26	21.62	68.20	17.94	185	31	Horizontal
3	10360.0	50.55	-2.34	68.20	17.65	321	140	Horizontal
4	10360.0	40.25	-2.34	54.00	13.75	262	16	Horizontal
5	15540.0	52.93	2.07	74.00	21.07	291	91	Horizontal
6	15540.0	42.47	2.07	54.00	11.53	214	132	Horizontal

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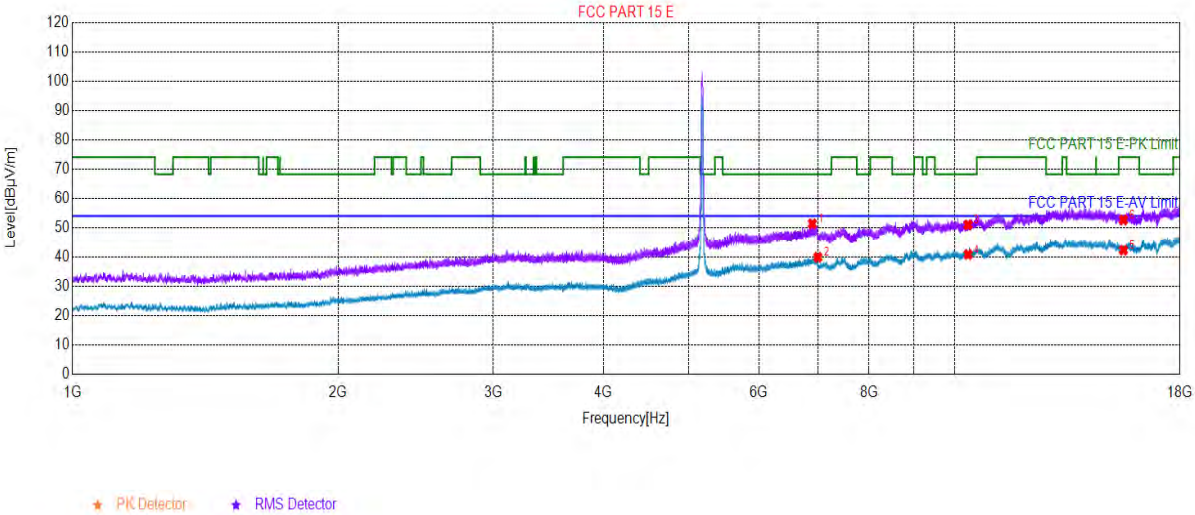
802.11n20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6898.89	51.33	21.49	68.20	16.87	185	76	Vertical
2	6999.40	39.91	21.64	54.00	14.09	269	84	Vertical
3	10360.0	50.98	-2.34	68.20	17.22	231	358	Vertical
4	10360.0	40.86	-2.34	54.00	13.14	291	43	Vertical
5	15540.0	42.31	2.07	54.00	11.69	262	20	Vertical
6	15540.0	52.64	2.07	74.00	21.36	154	194	Vertical

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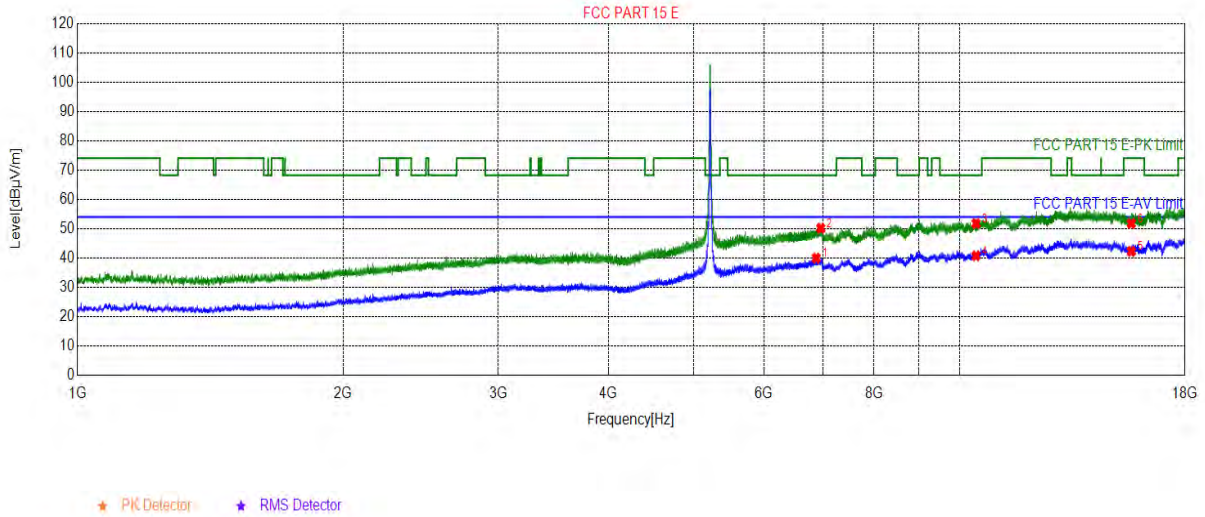
802.11n20_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6878.79	39.95	21.38	54.00	14.05	185	108	Horizontal
2	6962.19	50.17	21.11	68.20	18.03	213	77	Horizontal
3	10440.0	51.79	-2.03	68.20	16.41	261	86	Horizontal
4	10440.0	40.74	-2.03	54.00	13.26	294	0	Horizontal
5	15660.0	42.24	1.53	54.00	11.76	154	40	Horizontal
6	15660.0	51.77	1.53	74.00	22.23	161	222	Horizontal

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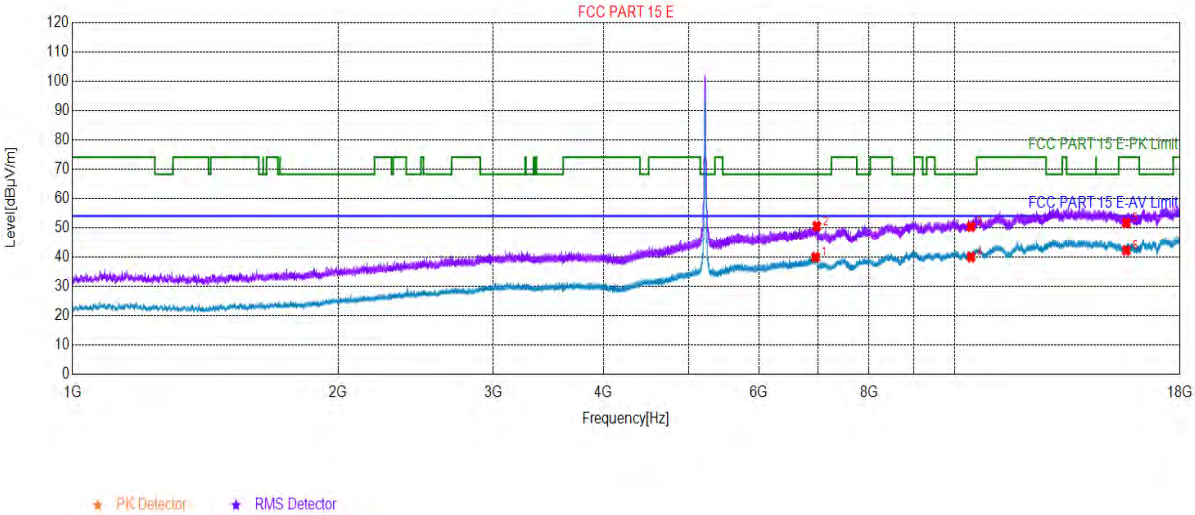
802.11n20_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6958.29	39.93	21.11	54.00	14.07	285	77	Vertical
2	6980.49	50.51	21.40	68.20	17.69	296	168	Vertical
3	10440.0	50.31	-2.03	68.20	17.89	231	100	Vertical
4	10440.0	39.99	-2.03	54.00	14.01	262	237	Vertical
5	15660.0	51.56	1.53	74.00	22.44	124	328	Vertical
6	15660.0	42.20	1.53	54.00	11.80	154	153	Vertical

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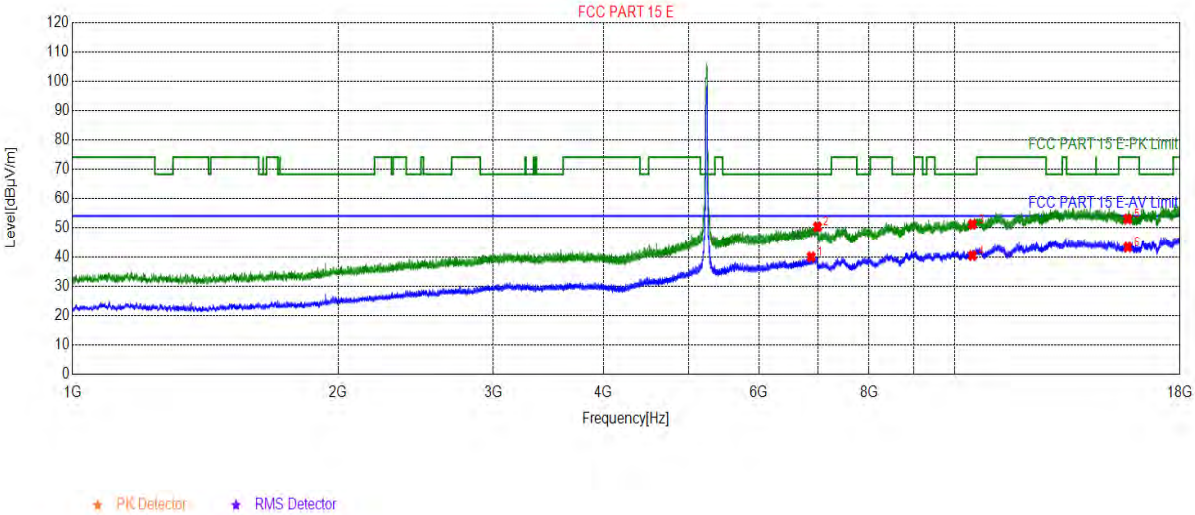
802.11n20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6879.09	40.04	21.40	54.00	13.96	185	59	Horizontal
2	6993.99	50.26	21.61	68.20	17.94	196	193	Horizontal
3	10480.0	51.13	-1.93	68.20	17.07	123	178	Horizontal
4	10480.0	40.46	-1.93	54.00	13.54	262	13	Horizontal
5	15720.0	52.95	1.46	74.00	21.05	244	291	Horizontal
6	15720.0	43.44	1.46	54.00	10.56	184	81	Horizontal

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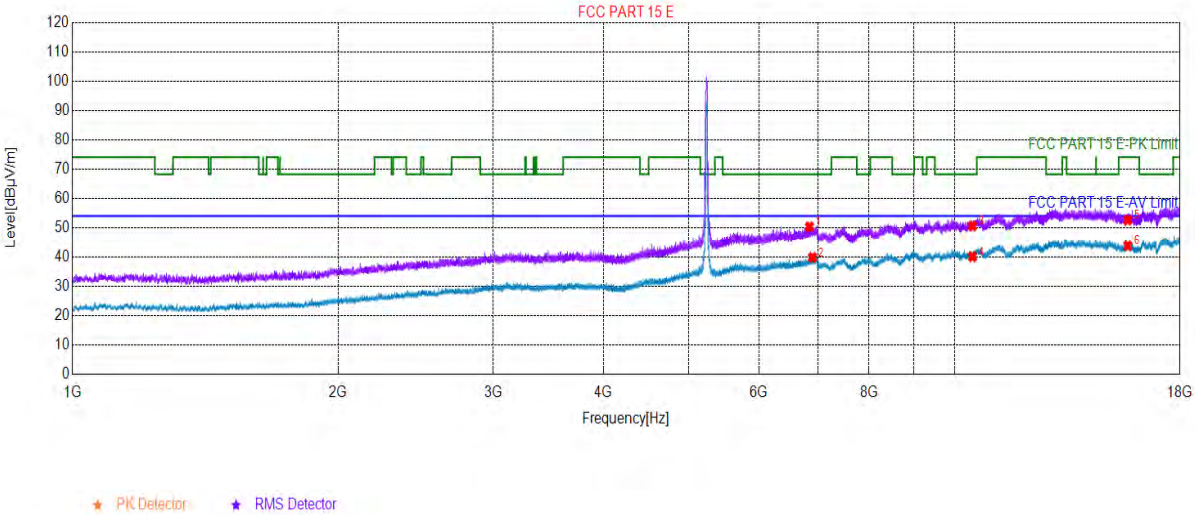
802.11n20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6848.19	50.31	21.37	68.20	17.89	285	54	Vertical
2	6902.49	39.86	21.46	54.00	14.14	296	236	Vertical
3	10480.0	50.59	-1.93	68.20	17.61	271	344	Vertical
4	10480.0	40.10	-1.93	54.00	13.90	213	279	Vertical
5	15720.0	52.57	1.46	74.00	21.43	262	248	Vertical
6	15720.0	43.86	1.46	54.00	10.14	241	279	Vertical

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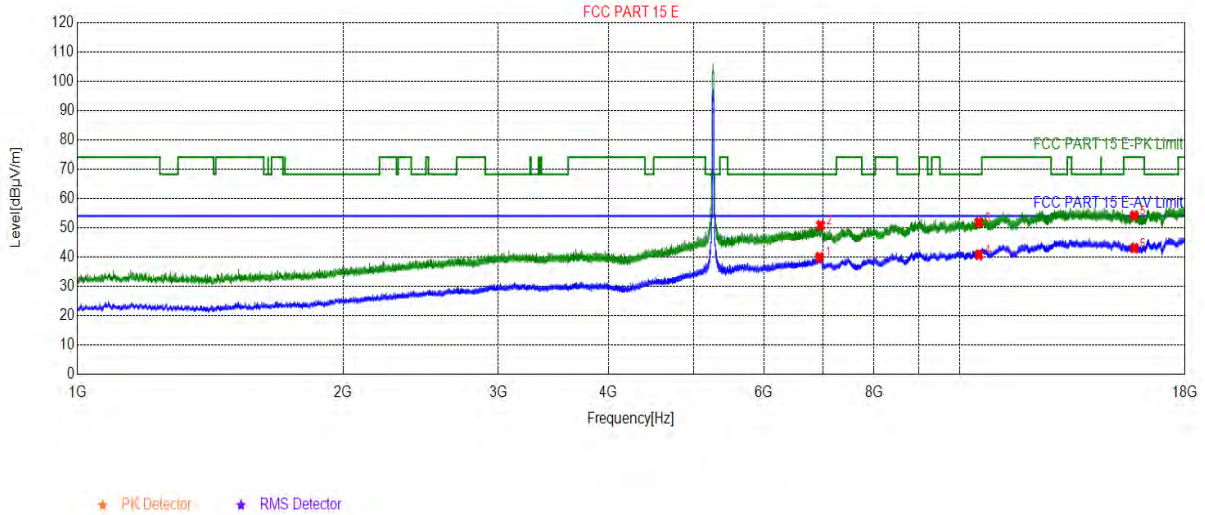
802.11n20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6937.59	39.91	21.46	54.00	14.09	174	159	Horizontal
2	6958.89	50.79	21.10	68.20	17.41	185	136	Horizontal
3	10520.0	51.79	-1.91	68.20	16.41	312	126	Horizontal
4	10520.0	40.73	-1.91	54.00	13.27	262	250	Horizontal
5	15780.0	54.13	1.54	74.00	19.87	291	103	Horizontal
6	15780.0	43.03	1.54	54.00	10.97	246	21	Horizontal

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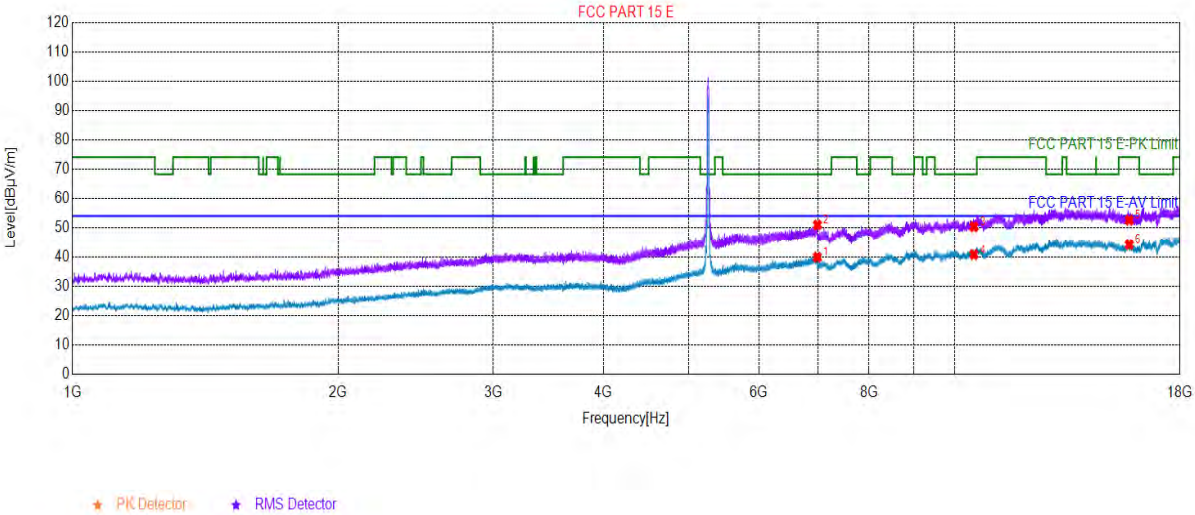
802.11n20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6989.19	39.95	21.57	54.00	14.05	174	212	Vertical
2	6992.79	50.93	21.60	68.20	17.27	185	62	Vertical
3	10520.0	50.31	-1.91	68.20	17.89	321	163	Vertical
4	10520.0	40.85	-1.91	54.00	13.15	196	269	Vertical
5	15780.0	52.57	1.54	74.00	21.43	211	12	Vertical
6	15780.0	44.26	1.54	54.00	9.74	161	284	Vertical

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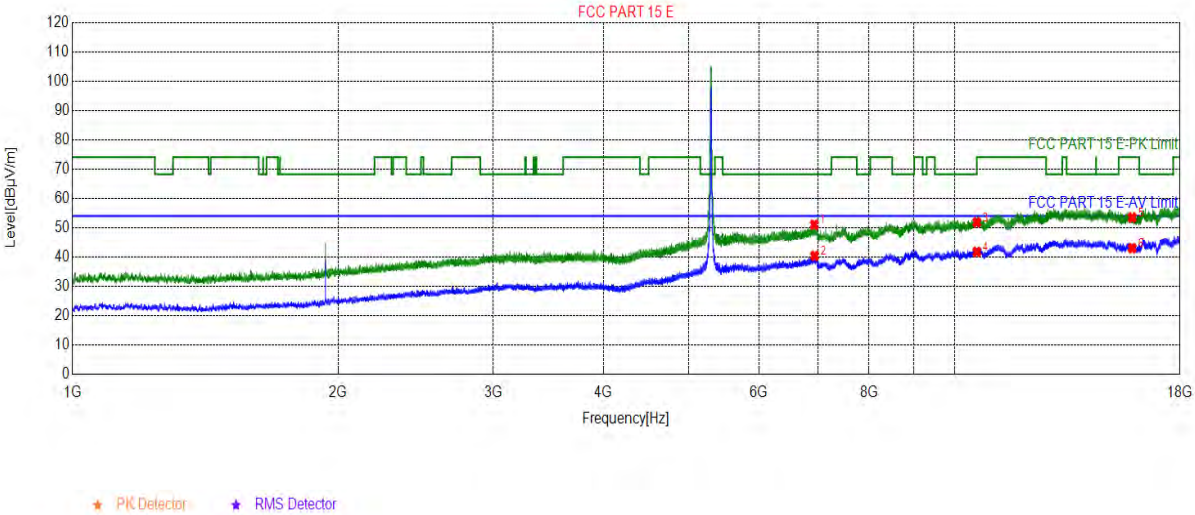
802.11n20_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6933.99	51.00	21.44	68.20	17.20	174	160	Horizontal
2	6940.59	40.39	21.46	54.00	13.61	185	145	Horizontal
3	10600.0	51.84	-1.66	74.00	22.16	321	15	Horizontal
4	10600.0	41.76	-1.66	54.00	12.24	261	284	Horizontal
5	15900.0	53.47	1.46	74.00	20.53	281	58	Horizontal
6	15900.0	43.01	1.46	54.00	10.99	191	88	Horizontal

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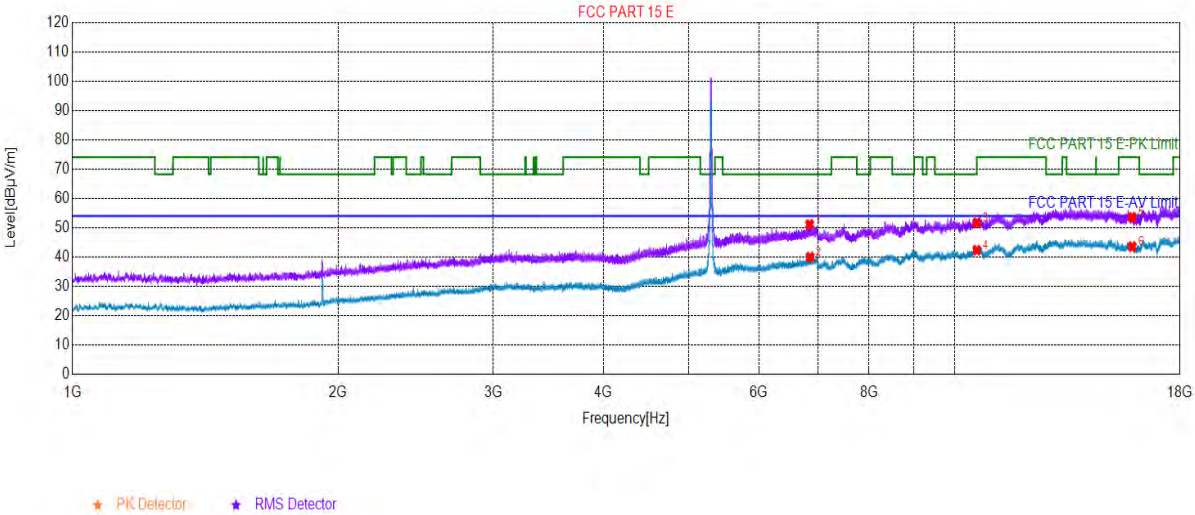
802.11n20_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6850.59	51.08	21.35	68.20	17.12	285	227	Vertical
2	6859.59	39.95	21.41	54.00	14.05	124	144	Vertical
3	10600.0	51.62	-1.66	74.00	22.38	196	344	Vertical
4	10600.0	42.32	-1.66	54.00	11.68	312	232	Vertical
5	15900.0	53.54	1.46	74.00	20.46	216	141	Vertical
6	15900.0	43.55	1.46	54.00	10.45	124	209	Vertical

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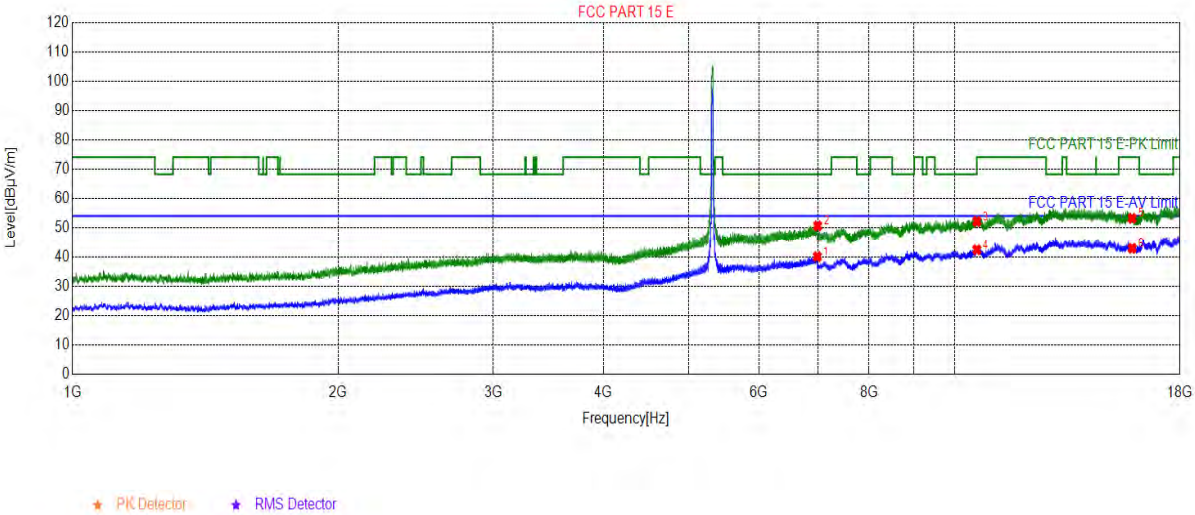
802.11n20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6989.49	40.13	21.58	54.00	13.87	174	327	Horizontal
2	6997.29	50.60	21.63	68.20	17.60	185	187	Horizontal
3	10600.0	52.15	-1.66	74.00	21.85	321	324	Horizontal
4	10600.0	42.49	-1.66	54.00	11.51	262	68	Horizontal
5	15900.0	53.18	1.46	74.00	20.82	291	180	Horizontal
6	15900.0	42.99	1.46	54.00	11.01	214	264	Horizontal

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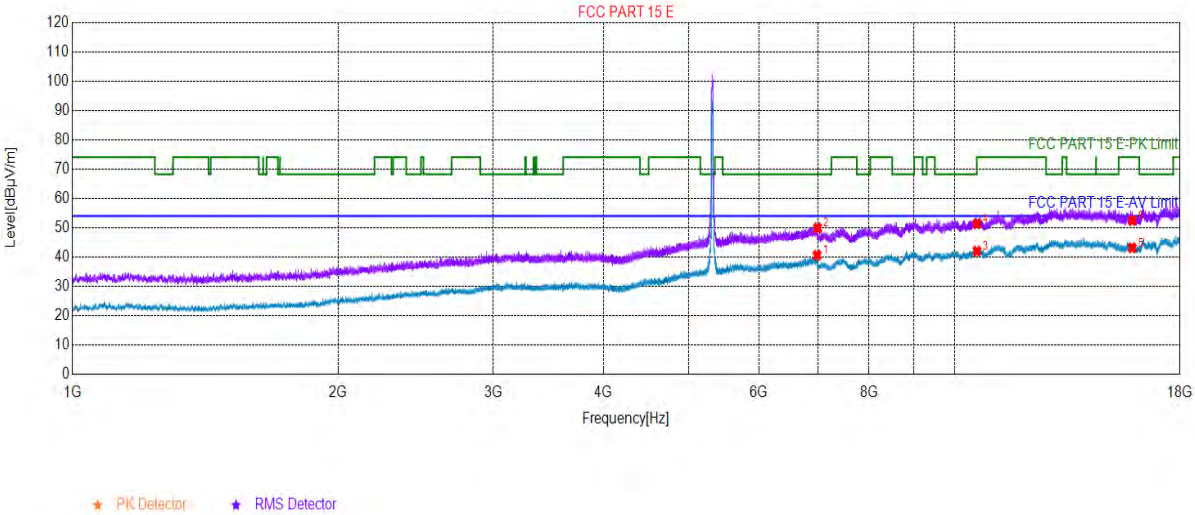
802.11n20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.79	40.59	21.53	54.00	13.41	251	333	Vertical
2	6993.99	49.91	21.61	68.20	18.29	181	296	Vertical
3	10600.0	41.98	-1.66	54.00	12.02	159	43	Vertical
4	10600.0	51.31	-1.66	74.00	22.69	149	232	Vertical
5	15900.0	43.15	1.46	54.00	10.85	196	201	Vertical
6	15900.0	52.42	1.46	74.00	21.58	231	179	Vertical

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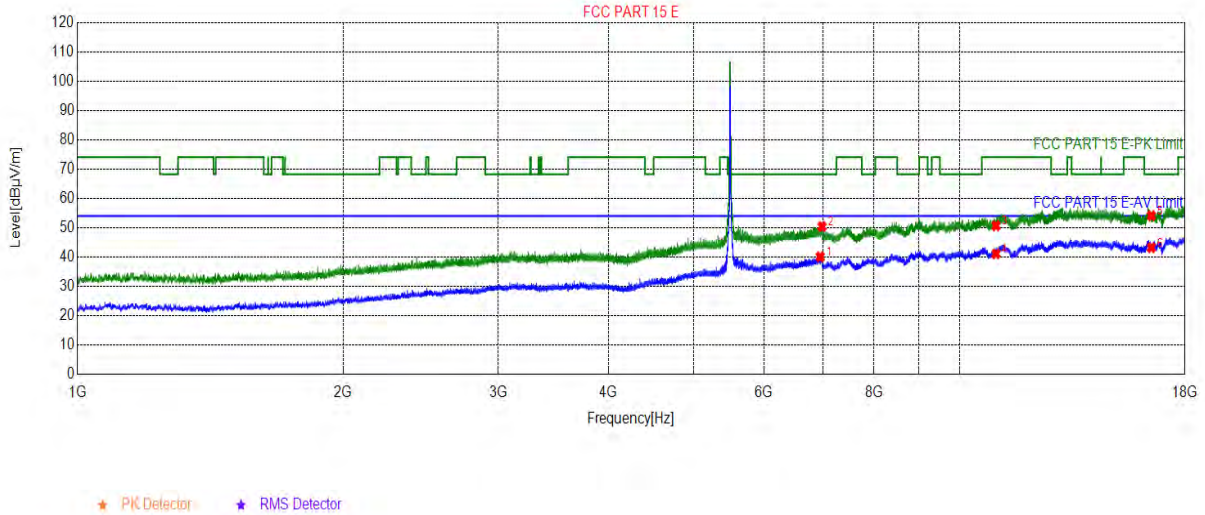
802.11n20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6951.39	40.06	21.19	54.00	13.94	285	54	Horizontal
2	6985.59	50.38	21.50	68.20	17.82	296	31	Horizontal
3	11000.0	50.65	-0.75	74.00	23.35	321	118	Horizontal
4	11000.0	41.07	-0.75	54.00	12.93	241	237	Horizontal
5	16500.0	54.06	0.43	68.20	14.14	184	102	Horizontal
6	16500.0	43.19	0.43	54.00	10.81	195	306	Horizontal

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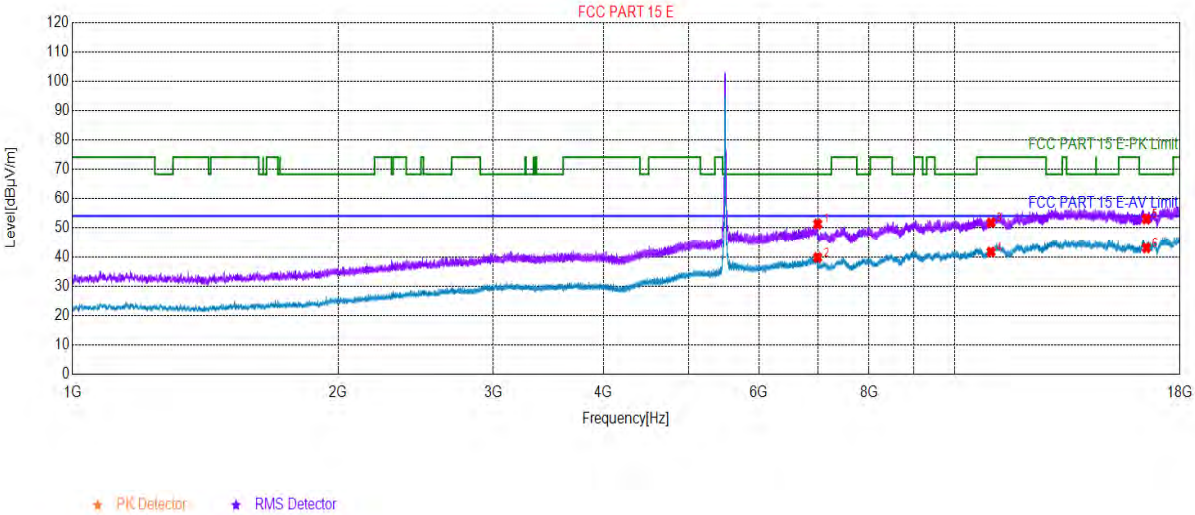
802.11n20_Channel 100

Test Graph



Suspected List

Suspected List								
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1	6995.79	51.22	21.62	68.20	16.98	174	39	Vertical
2	6996.09	39.85	21.62	54.00	14.15	185	305	Vertical
3	11000.0	51.66	-0.75	74.00	22.34	269	0	Vertical
4	11000.0	41.73	-0.75	54.00	12.27	161	57	Vertical
5	16500.0	52.90	0.43	68.20	15.30	185	50	Vertical
6	16500.0	43.10	0.43	54.00	10.90	196	322	Vertical

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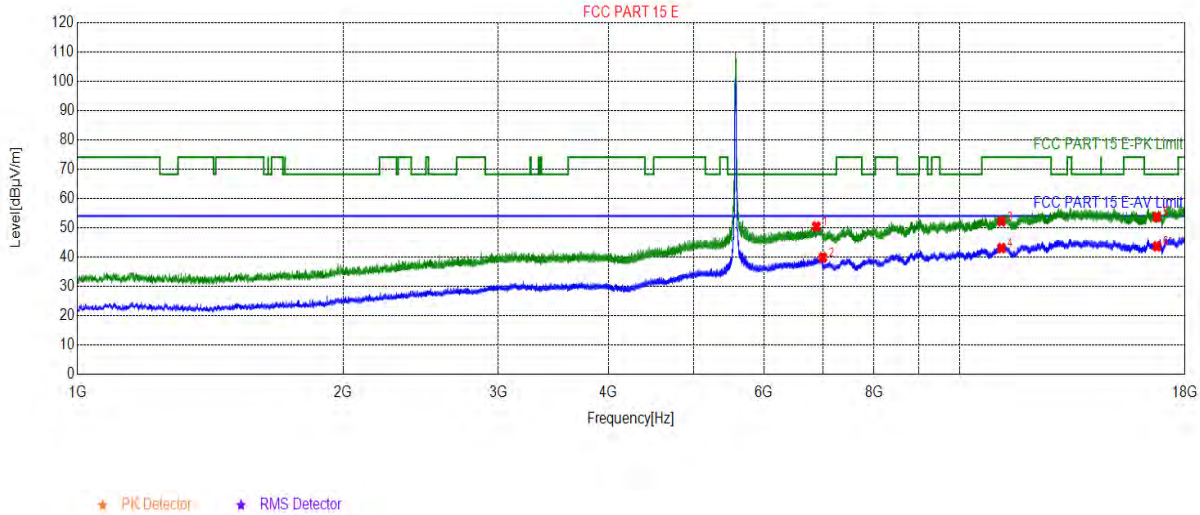
802.11n20_Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6882.09	50.40	21.37	68.20	17.80	185	121	Horizontal
2	6998.79	39.85	21.63	54.00	14.15	196	360	Horizontal
3	11160.0	52.17	-0.59	74.00	21.83	213	284	Horizontal
4	11160.0	43.05	-0.59	54.00	10.95	262	186	Horizontal
5	16740.0	53.63	0.86	68.20	14.57	281	66	Horizontal
6	16740.0	43.62	0.86	54.00	10.38	124	0	Horizontal

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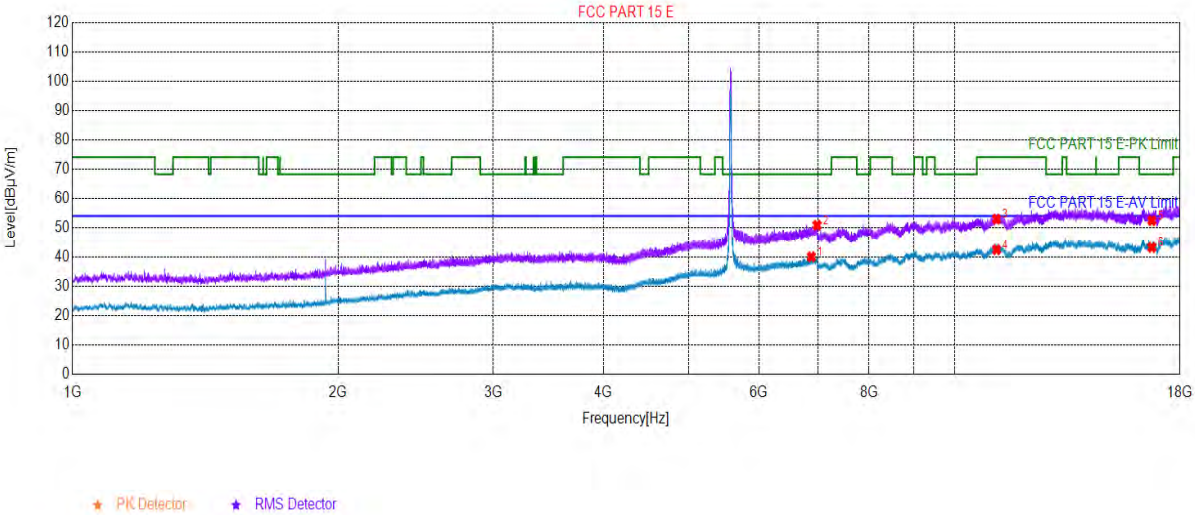
802.11n20_Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6881.79	40.05	21.38	54.00	13.95	174	114	Vertical
2	6987.39	50.79	21.54	68.20	17.41	185	91	Vertical
3	11160.0	52.90	-0.59	74.00	21.10	196	21	Vertical
4	11160.0	42.51	-0.59	54.00	11.49	231	314	Vertical
5	16740.0	52.39	0.86	68.20	15.81	262	193	Vertical
6	16740.0	43.28	0.86	54.00	10.72	214	329	Vertical

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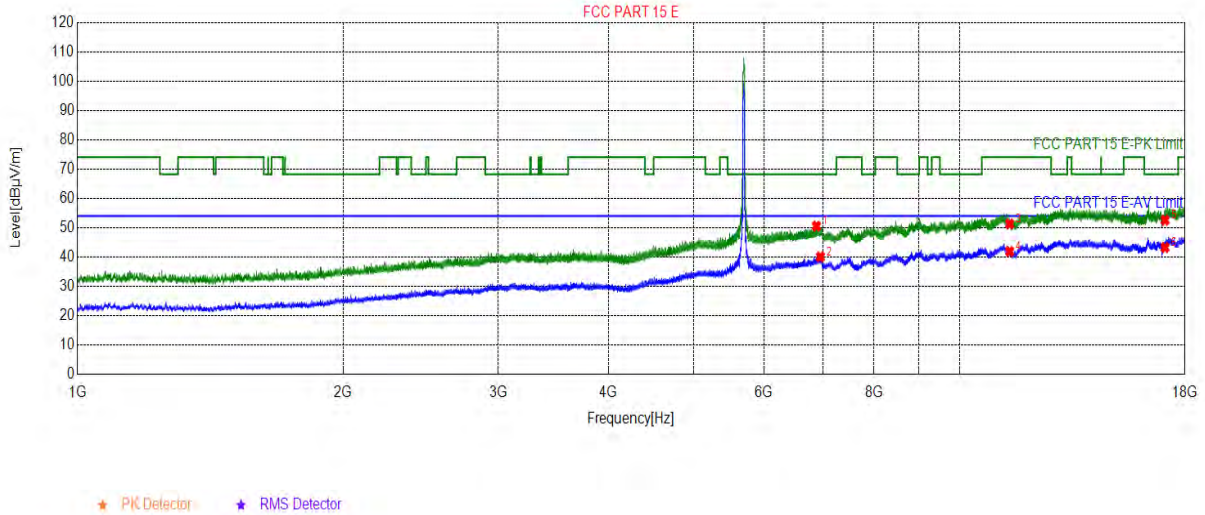
802.11n20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6883.59	50.52	21.30	68.20	17.68	174	349	Horizontal
2	6955.59	40.05	21.14	54.00	13.95	185	86	Horizontal
3	11400.0	51.26	-0.52	74.00	22.74	213	329	Horizontal
4	11400.0	41.88	-0.52	54.00	12.12	262	43	Horizontal
5	17100.0	52.54	-0.56	68.20	15.66	291	163	Horizontal
6	17100.0	43.22	-0.56	54.00	10.78	254	163	Horizontal

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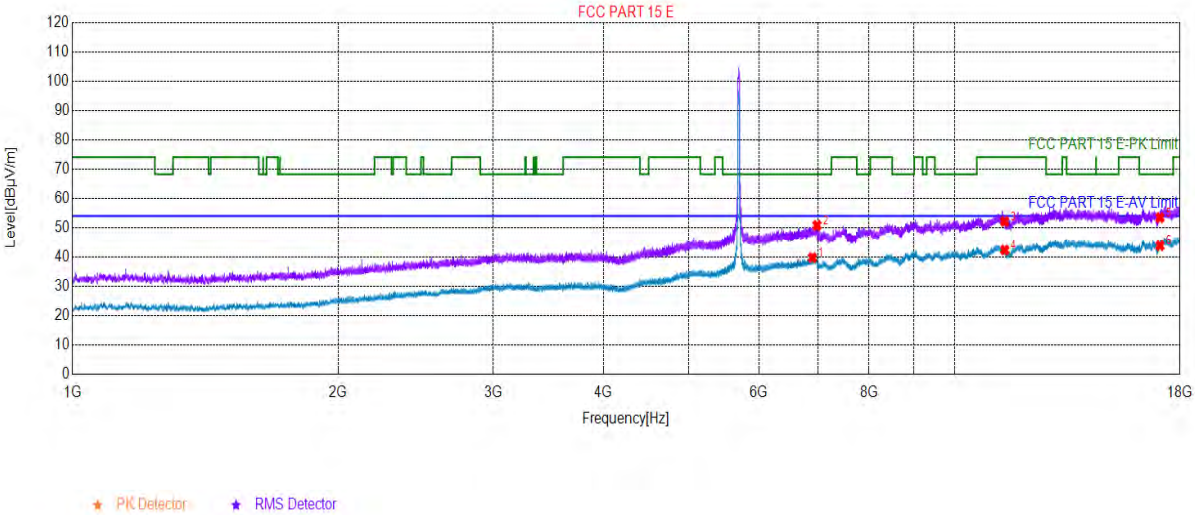
802.11n20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.09	39.78	21.55	54.00	14.22	174	105	Vertical
2	6984.99	50.75	21.49	68.20	17.45	185	240	Vertical
3	11400.0	52.10	-0.52	74.00	21.90	231	155	Vertical
4	11400.0	42.39	-0.52	54.00	11.61	262	298	Vertical
5	17100.0	53.43	-0.56	68.20	14.77	291	298	Vertical
6	17100.0	43.93	-0.56	54.00	10.07	244	200	Vertical

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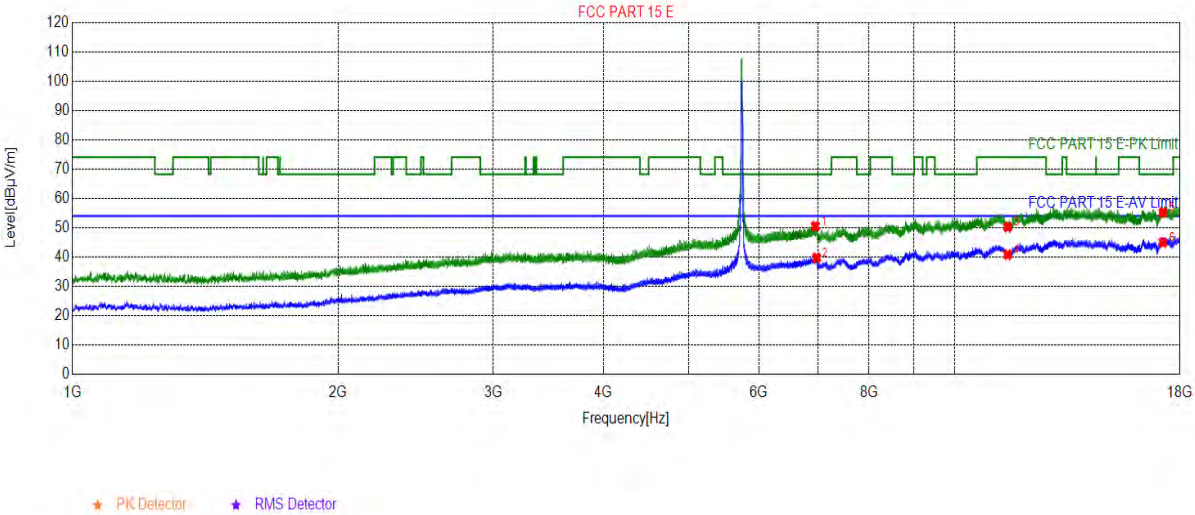
802.11n20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6955.29	50.50	21.14	68.20	17.70	174	146	Horizontal
2	6977.79	39.72	21.34	54.00	14.28	185	13	Horizontal
3	11490.0	50.20	-0.61	74.00	23.80	213	61	Horizontal
4	11490.0	40.83	-0.61	54.00	13.17	262	121	Horizontal
5	17235.0	55.20	0.36	68.20	13.00	266	201	Horizontal
6	17235.0	44.96	0.36	54.00	9.04	291	238	Horizontal

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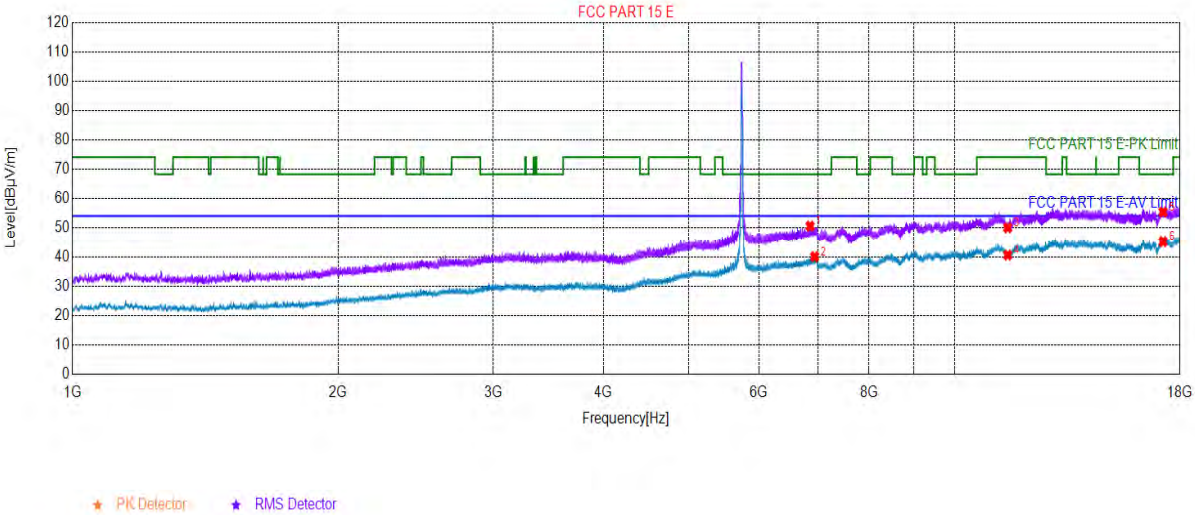
802.11n20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6859.89	50.52	21.41	68.20	17.68	174	234	Vertical
2	6939.69	40.12	21.48	54.00	13.88	185	294	Vertical
3	11490.0	49.95	-0.61	74.00	24.05	231	170	Vertical
4	11490.0	40.66	-0.61	54.00	13.34	262	223	Vertical
5	17235.0	55.36	0.36	68.20	12.84	291	276	Vertical
6	17235.0	45.23	0.36	54.00	8.77	241	306	Vertical

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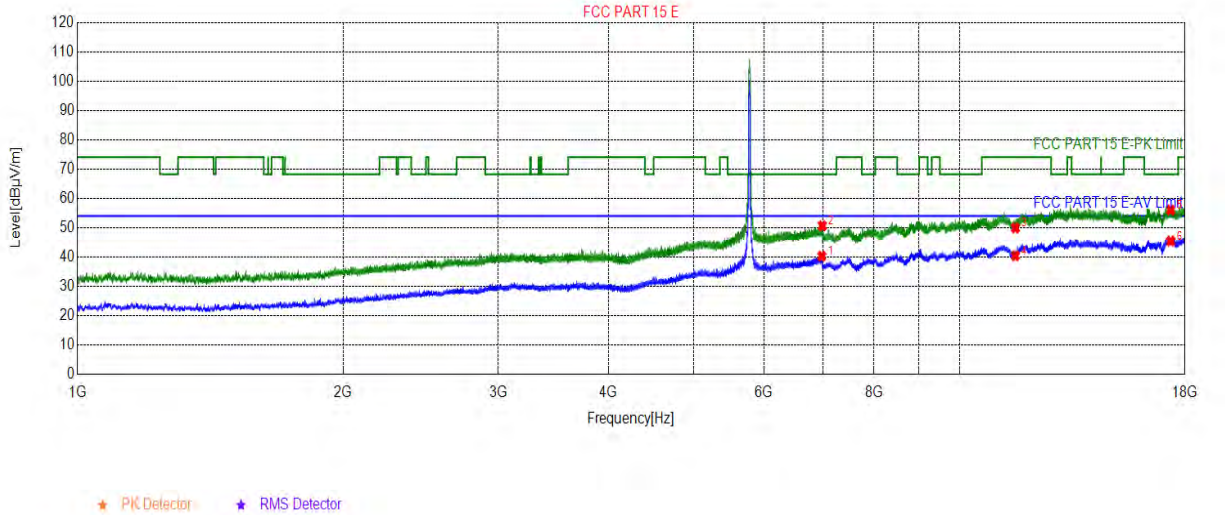
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6979.89	40.26	21.39	54.00	13.74	175	103	Horizontal
2	6990.69	50.63	21.59	68.20	17.57	212	209	Horizontal
3	11570.0	49.90	-0.41	74.00	24.10	296	358	Horizontal
4	11570.0	40.43	-0.41	54.00	13.57	285	321	Horizontal
5	17355.0	56.02	1.22	68.20	12.18	184	186	Horizontal
6	17355.0	45.47	1.22	54.00	8.53	123	111	Horizontal

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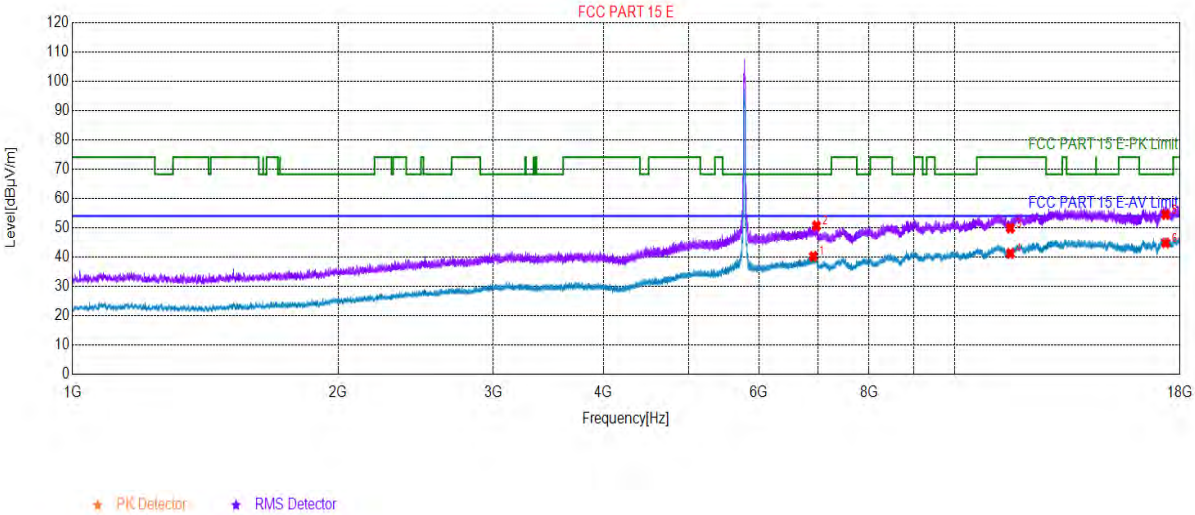
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916.29	40.21	21.16	54.00	13.79	174	166	Vertical
2	6973.89	50.61	21.26	68.20	17.59	185	8	Vertical
3	11570.0	49.81	-0.41	74.00	24.19	322	73	Vertical
4	11570.0	41.23	-0.41	54.00	12.77	216	133	Vertical
5	17355.0	54.47	1.22	68.20	13.73	291	148	Vertical
6	17355.0	44.80	1.22	54.00	9.20	254	0	Vertical

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