

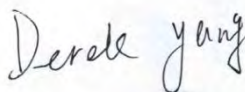
# FCC TEST REPORT

**Application No.:** ZR/2021/40021  
**Applicant:** HMD Global Oy  
**Address of Applicant:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Manufacturer:** HMD Global Oy  
**Address of Manufacturer:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**EUT Description:** smart phone  
**Model No.:** N1374DL  
**Trade Mark:** Nokia  
**FCC ID:** 2AJOTTA-1374  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR FCC Part 15, Subpart E  
**Date of Receipt:** 2021/4/25  
**Date of Test:** 2021/4/25 to 2021/5/28  
**Date of Issue:** 2021/5/28

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:





Derek Yang  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-28		Original

Authorized for issue by:		
Prepared By		 <hr/> (Dee Zheng) / Engineer
Checked By		 <hr/> (Jim Huang) / Reviewer



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## 2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS	A
	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	A
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS	A
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS	A
	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	A
	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	B
	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:			



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	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	§15.209/§7.2.5 limit (AV&PK). F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-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).		PASS	
	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	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS	B
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-	15.209	---	Clause 4.11	PASS	A



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	5850					
Dynamic Frequency Selection	5250-5350-5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	B

Remark : All test were performed by Lab A and 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:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, 02600 Espoo, Finland

#### 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, Swing Hu, Habit Zeng

##### 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:	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:

**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.:	N1374DL
Trade Mark:	Nokia
Hardware Version:	V1.0
Software Version:	02US_0_029
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(VHT20/40/80): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(VHT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input checked="" type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a).
Antenna Gain:	-3.4dBi(Ant9); -2.7dBi(Ant10)

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



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

For UNII Band I:

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

For UNII Band II-A:

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

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

For UNII Band III:

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

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -3.4dBi(Ant9); -2.7dBi(Ant10).	

### 4.2 AC Power Line Conducted Emissions

<b>Test Requirement:</b>	47 CFR Part 15 Section 15.407(b)		
<b>Test Method:</b>	ANSI C63.10: 2013		
<b>Test Frequency Range:</b>	150kHz to 30MHz		
<b>Limit:</b>	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.			
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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,</li> <li>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.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		



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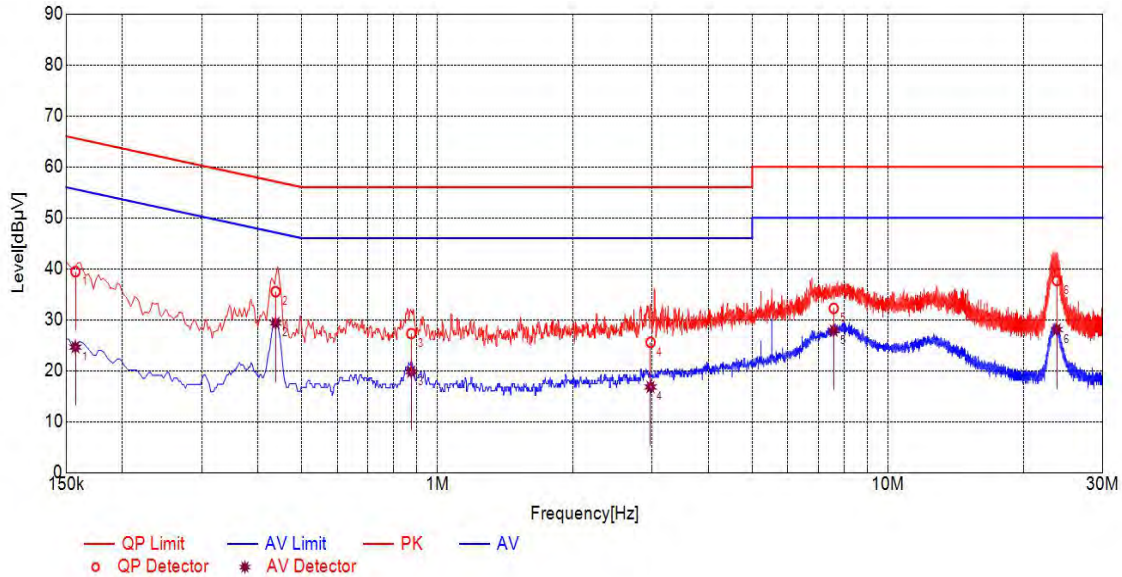
<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>



**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Live Line:**

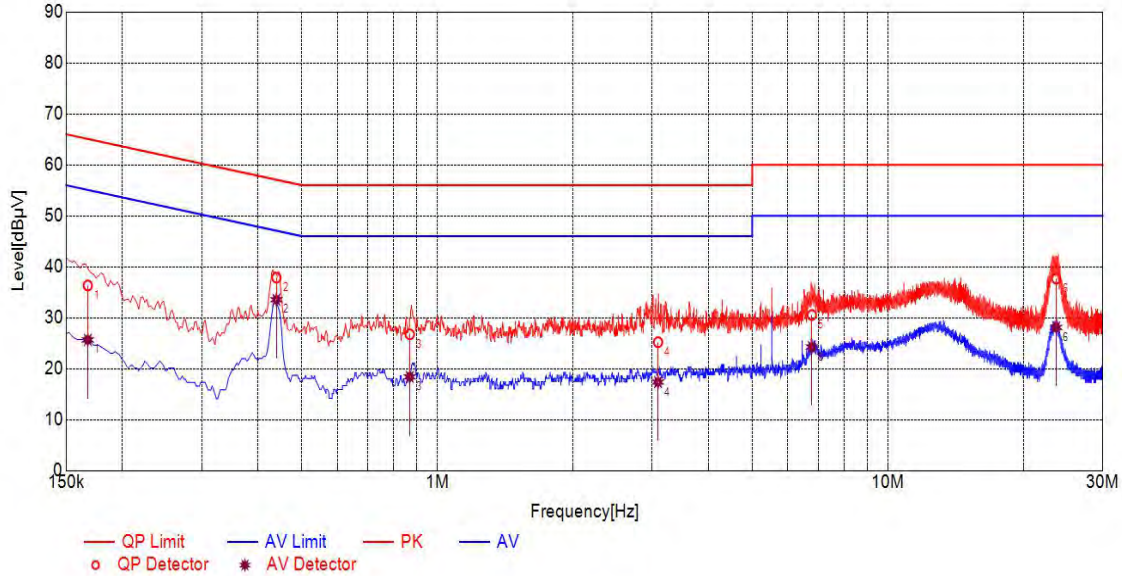


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1573	10.10	39.43	65.61	26.18	24.62	55.61	30.99
2	0.4377	10.10	35.51	57.10	21.59	29.33	47.10	17.77
3	0.8753	10.10	27.28	56.00	28.72	19.81	46.00	26.19
4	2.9737	10.10	25.57	56.00	30.43	16.81	46.00	29.19
5	7.5821	10.10	32.23	60.00	27.77	27.86	50.00	22.14
6	23.7144	10.11	37.70	60.00	22.30	28.07	50.00	21.93



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Neutral Line:



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]
1	0.1676	10.10	36.33	65.08	28.75	25.65	55.08	29.43
2	0.4393	10.10	37.87	57.07	19.20	33.54	47.07	13.53
3	0.8688	10.10	26.76	56.00	29.24	18.39	46.00	27.61
4	3.0895	10.10	25.21	56.00	30.79	17.37	46.00	28.63
5	6.7801	10.10	30.53	60.00	29.47	24.25	50.00	25.75
6	23.6459	10.11	37.68	60.00	22.32	28.10	50.00	21.90

Remark:

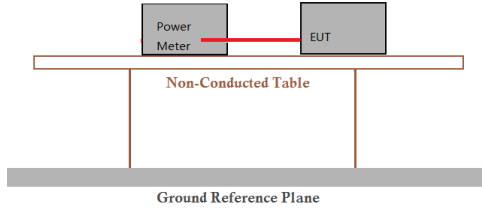
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



### 4.3 Duty Cycle

The detailed test data see: **Appendix**

### 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). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). 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**

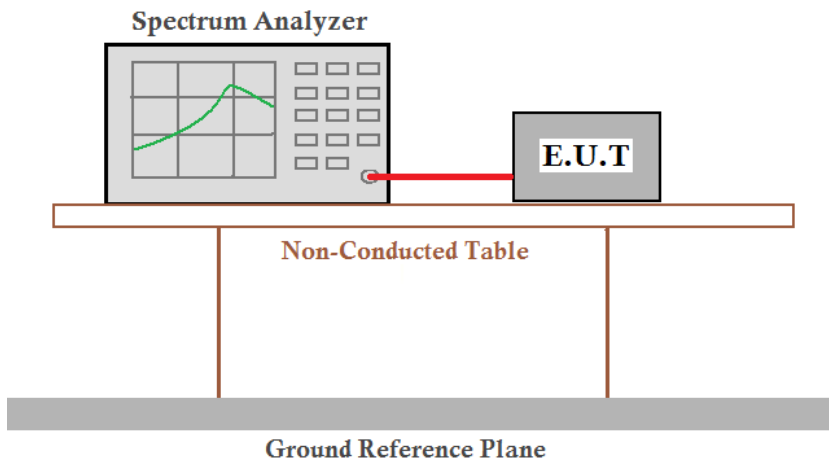


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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



### 4.5 26dB Emission Bandwidth

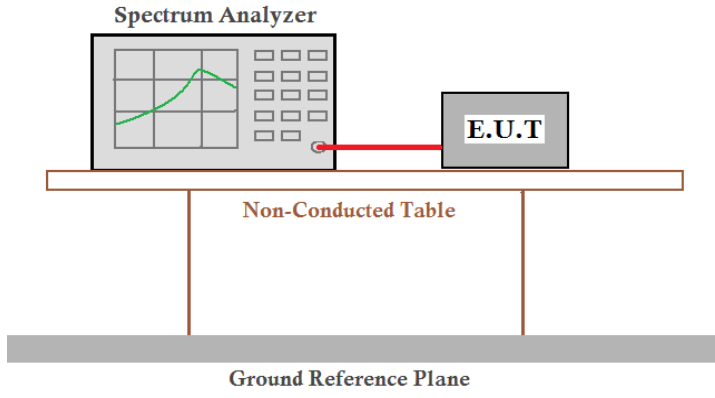
Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; 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). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.6 6dB Emission Bandwidth

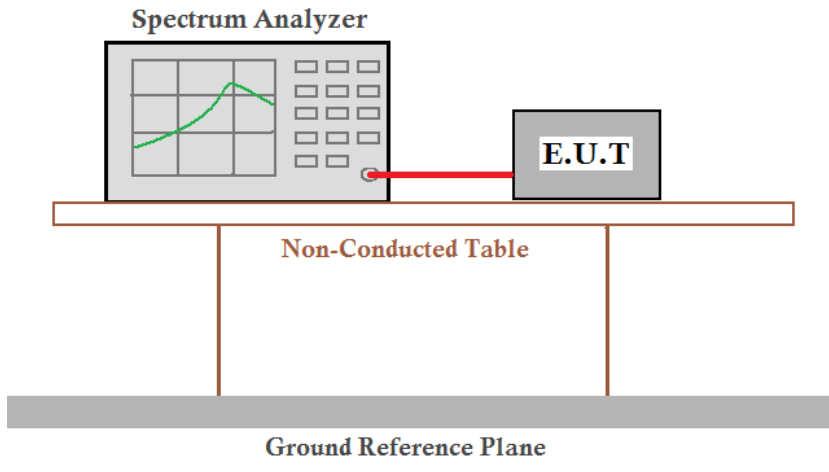
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case 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). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	

The detailed test data see: **Appendix**



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### 4.7 99% Occupied Bandwidth

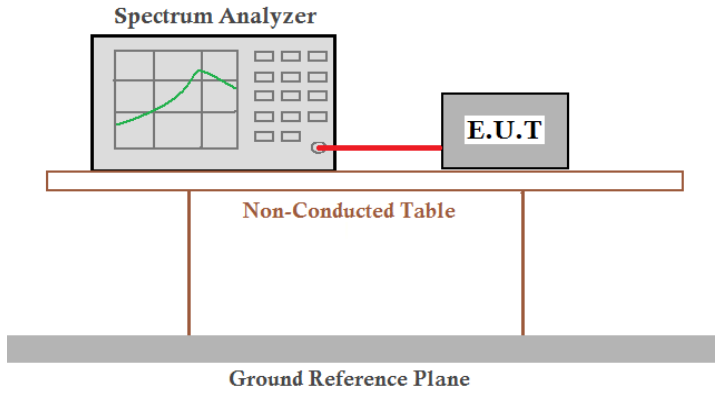
Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; 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). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**



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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). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). 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**



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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:	

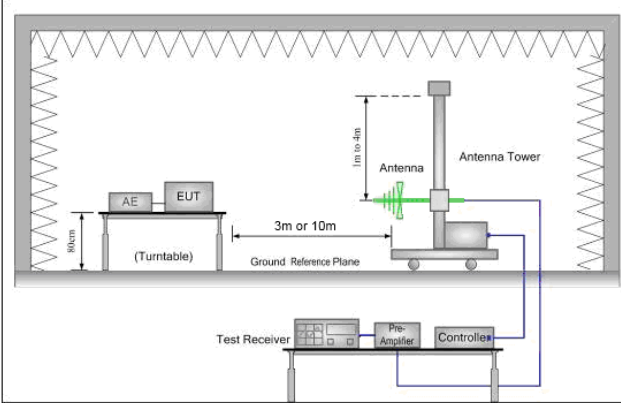


Figure 1. 30MHz to 1GHz

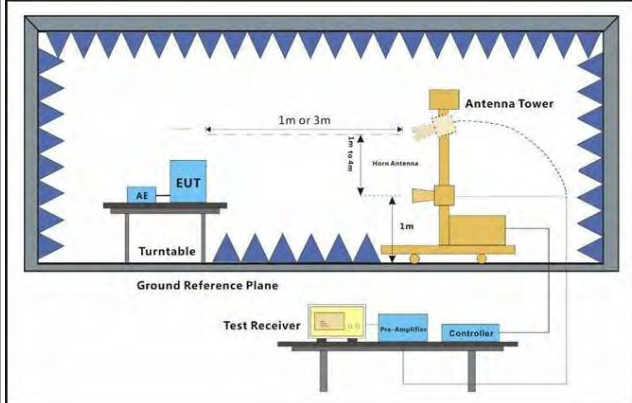


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Test the EUT in the outermost channels.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
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);



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	<p>MCS0 of rate is the worst case of 802.11ac(VHT20).  MCS0 of rate is the worst case of 802.11ac(VHT40).  MCS0 of rate is the worst case of 802.11ac(VHT80).  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.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

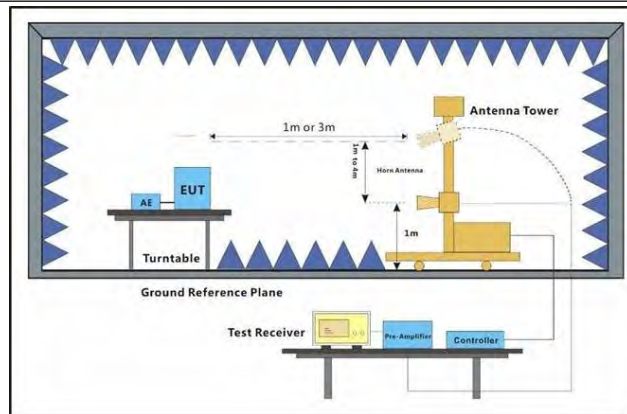
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### 4.10 Restricted bands around fundamental frequency

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:	<ul style="list-style-type: none"> <li>a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>g. Test the EUT in the outermost channels.</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>
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)	5180.003246	5825.005668
V max(V)	5180.010016	5825.007936
V min(V)	5180.012066	5825.008811
Max. Deviation Frequency	0.012066	0.008811
Max. Frequency Error (ppm)	2.329267	1.512661

### 4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
-5	5180.004054	5825.000888
5	5180.012674	5825.009899
15	5180.018676	5825.015662
25	5180.018835	5825.019076
35	5180.022508	5825.026016
45	5180.023730	5825.031998
50	5180.030614	5825.033653
Max. Deviation Frequency	0.030614	0.033653
Max. Frequency Error (ppm)	5.910066	5.777375



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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
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	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
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p><b>Note:</b> 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.</p>		



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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
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**4.12.3 Response Requirements**

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> 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.</p>	



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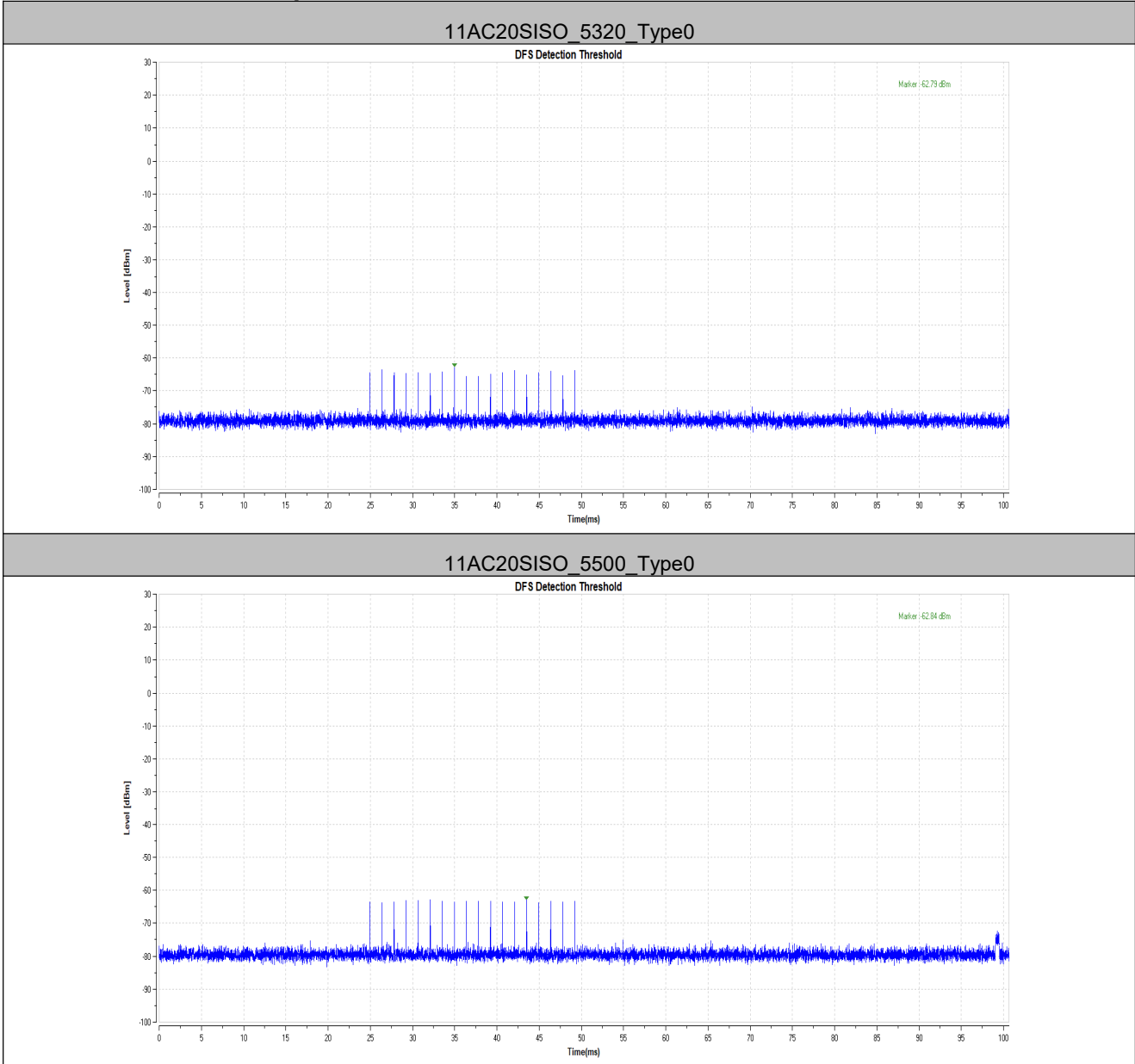
**4.12.4 Test plots**  
**4.12.4.1 DFS Detection Thresholds**  
**4.12.4.1.1 Test Result**

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.79	-62.00	PASS
	5500	Type0	-62.84	-62.00	PASS
11AC80SISO	5290	Type0	-64.42	-62.00	PASS
	5530	Type0	-63.07	-62.00	PASS



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**4.12.4.1.2 Test Graphs**

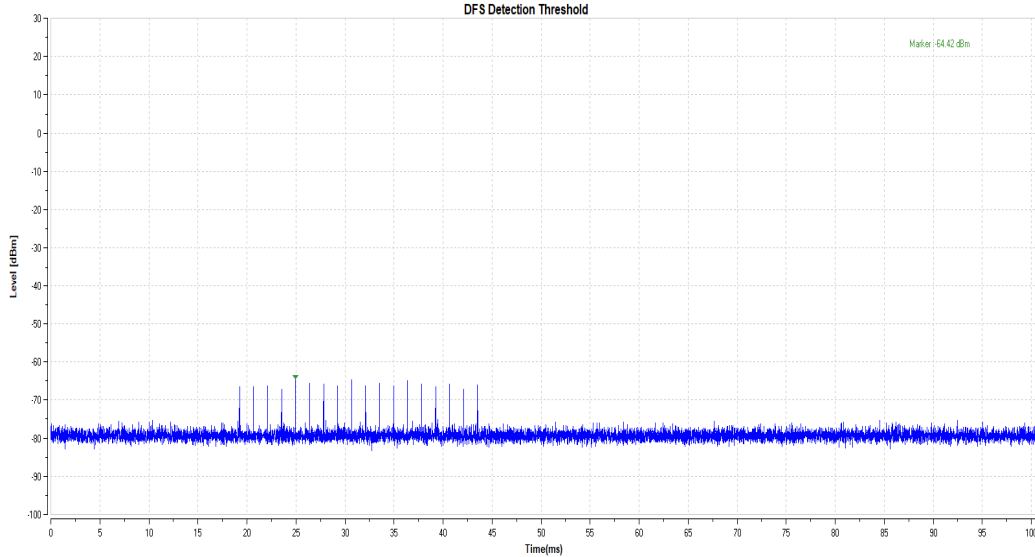


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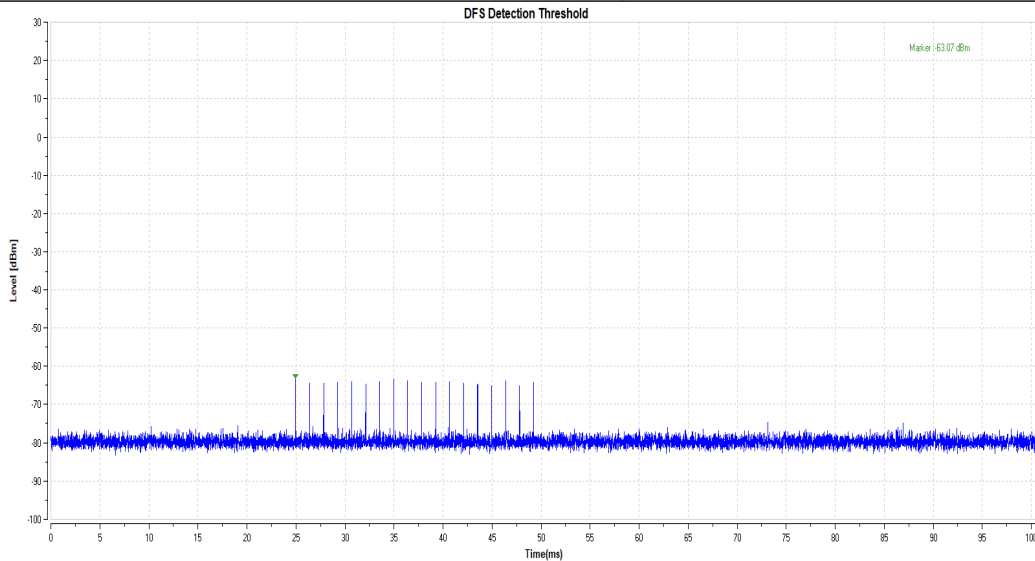
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### 11AC80SISO\_5290\_Type0



### 11AC80SISO\_5530\_Type0



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**4.12.4.2 Channel Move Time and Channel Closing Transmission Time**

**4.12.4.2.1 Test Result**

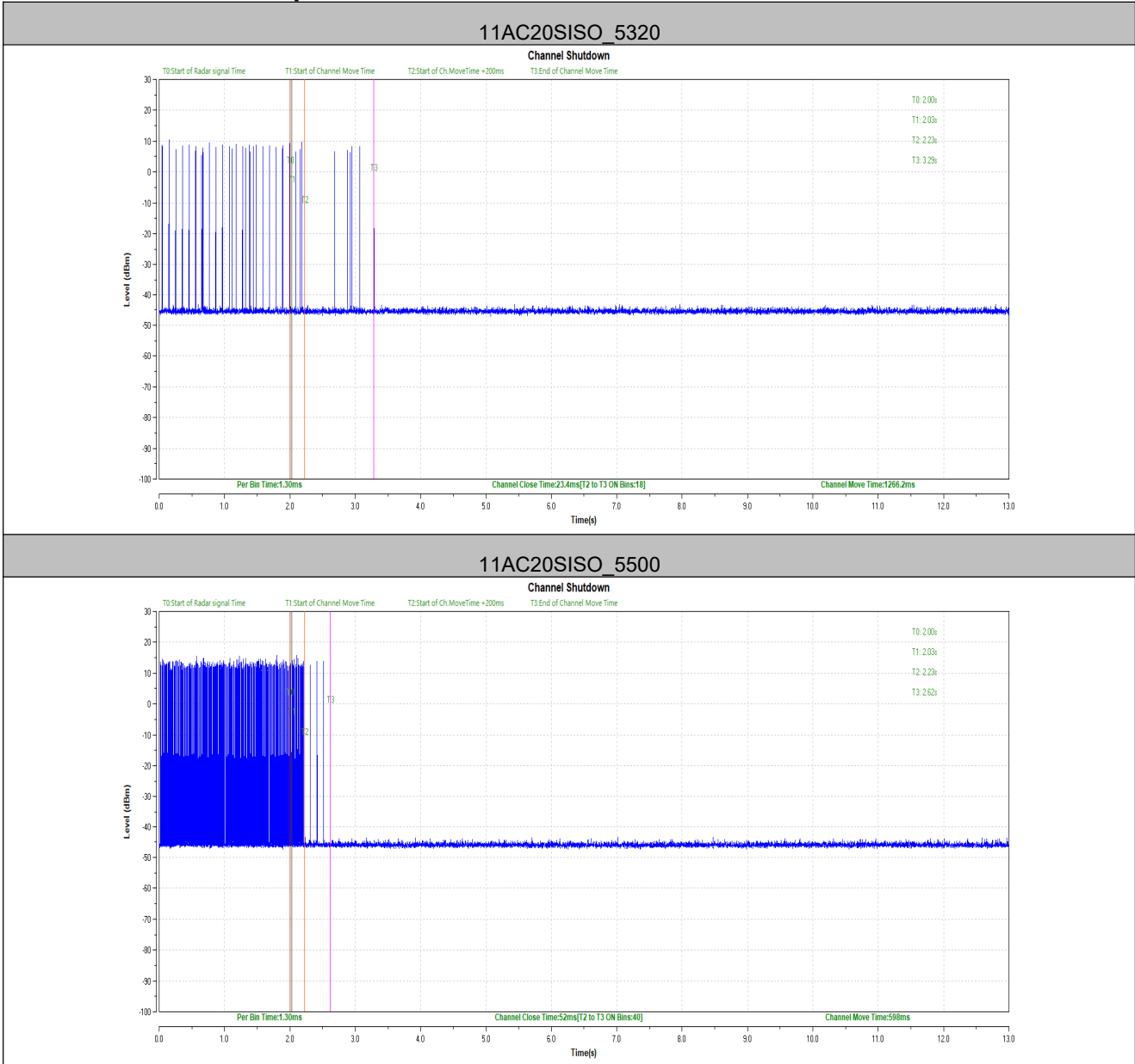
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	23.4	60	1266.2	10000	PASS
	5500	52	60	598	10000	PASS
11AC80SISO	5290	18.2	60	3364.4	10000	PASS
	5530	49.4	60	588.9	10000	PASS



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### 4.12.4.2.2 Test Graphs



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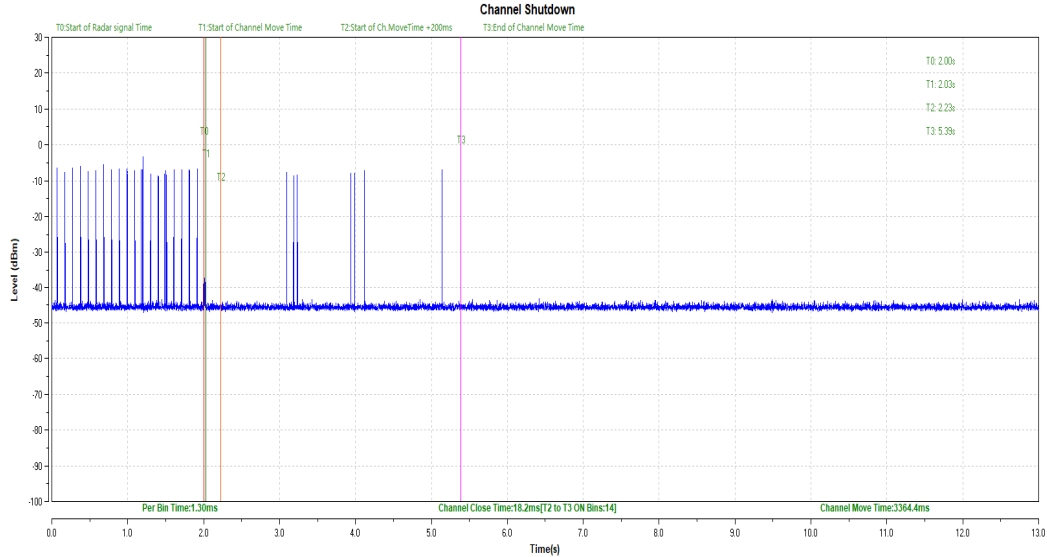
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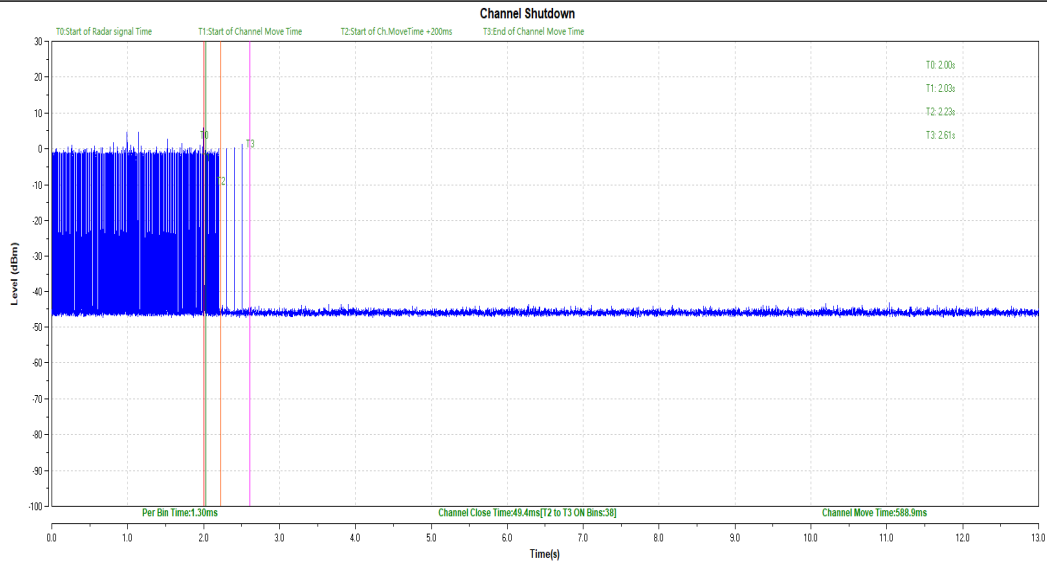
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### 11AC80SISO\_5290



### 11AC80SISO\_5530



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 <sup>-8</sup>
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/4/14	2022/4/13
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2021/4/14	2022/4/13

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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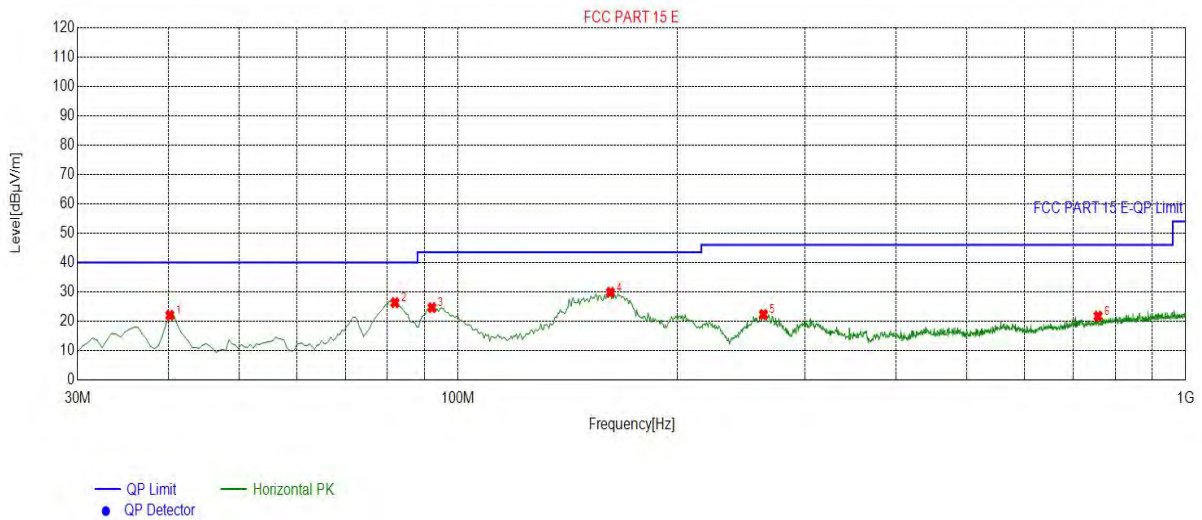


## Radiated Spurious Emission

### Radiated Emission below 1GHz

### Charge + Transmitting

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1901	22.04	-22.31	40.00	17.96	185	264	Horizontal
2	81.9210	26.33	-26.76	40.00	13.67	213	236	Horizontal
3	92.1111	24.63	-24.15	43.50	18.87	209	260	Horizontal
4	161.986	29.86	-25.47	43.50	13.64	214	93	Horizontal
5	262.916	22.31	-20.32	46.00	23.69	185	60	Horizontal
6	757.863	21.75	-9.72	46.00	24.25	178	354	Horizontal

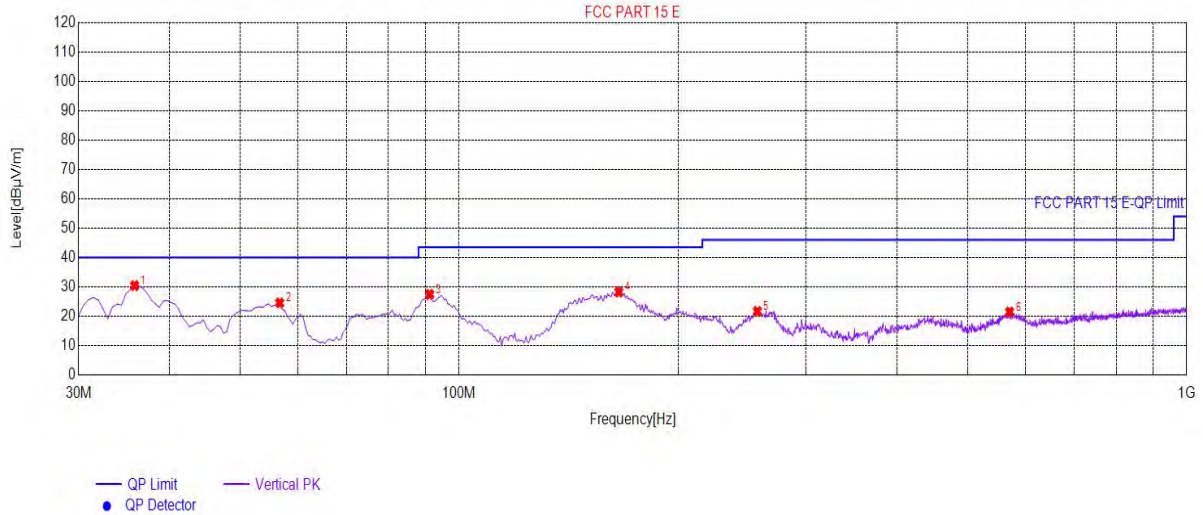
#### Final Data List

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**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	30.43	-23.68	40.00	9.57	188	321	Vertical
2	56.6883	24.55	-22.36	40.00	15.45	174	303	Vertical
3	91.1406	27.45	-24.31	43.50	16.05	165	96	Vertical
4	165.867	28.25	-25.32	43.50	15.25	162	2	Vertical
5	257.093	21.68	-20.52	46.00	24.32	189	14	Vertical
6	571.045	21.47	-12.79	46.00	24.53	190	350	Vertical

**Final Data List**

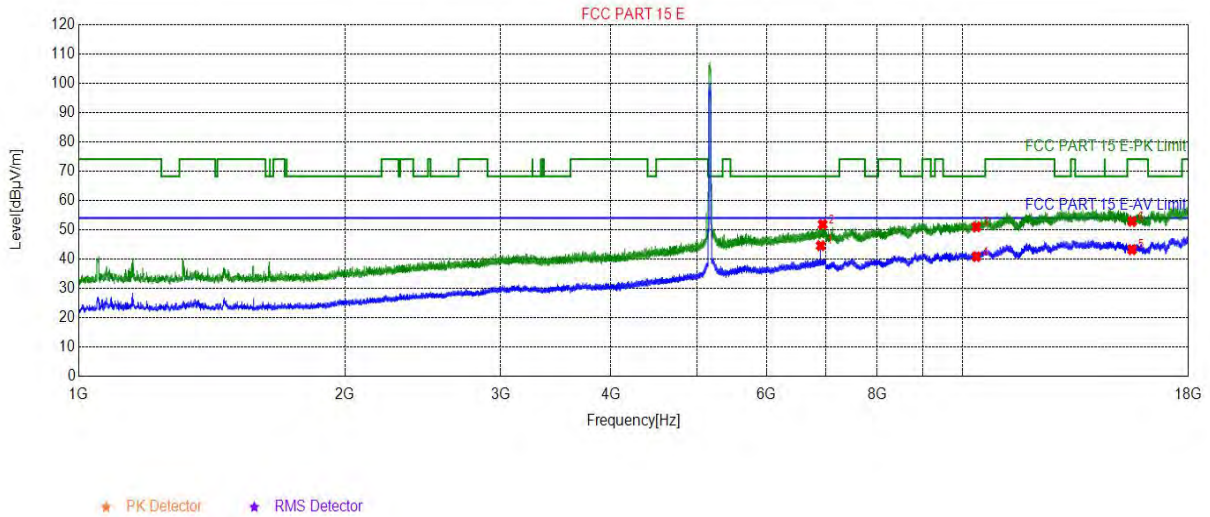


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**802.11A\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.99	44.53	21.28	54.00	9.47	254	81	Horizontal
2	6940.89	51.79	21.45	68.20	16.41	174	275	Horizontal
3	10360.0	50.98	-2.34	68.20	17.22	184	85	Horizontal
4	10360.0	40.77	-2.34	54.00	13.23	165	123	Horizontal
5	15540.0	43.20	2.07	54.00	10.80	274	323	Horizontal
6	15540.0	52.79	2.07	74.00	21.21	158	360	Horizontal

**Final Data List**



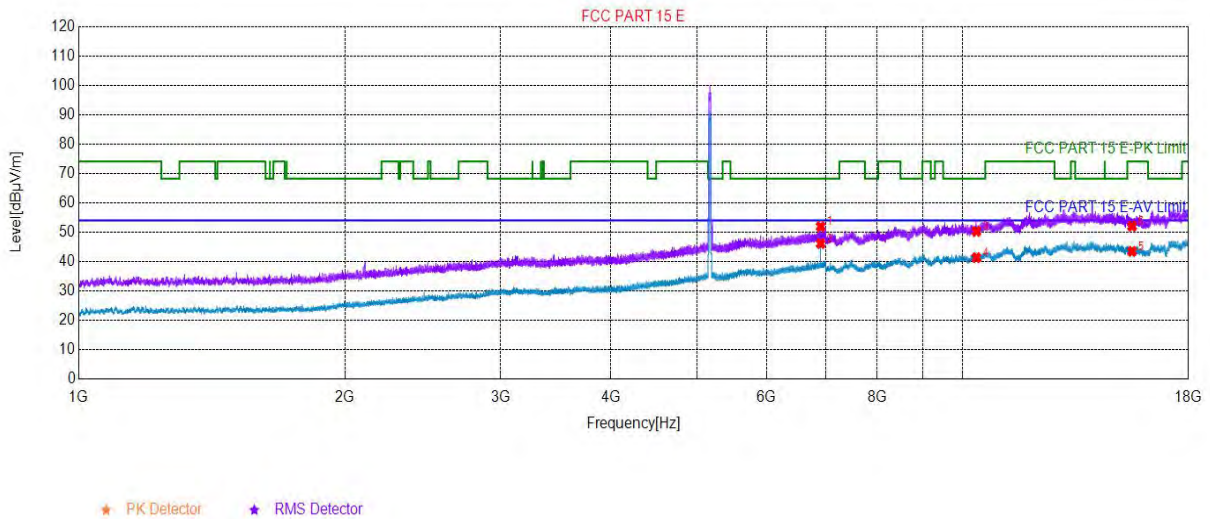
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**802.11A\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.99	51.89	21.28	68.20	16.31	174	128	Vertical
2	6906.99	46.10	21.28	54.00	7.90	165	144	Vertical
3	10360.0	50.24	-2.34	68.20	17.96	174	2	Vertical
4	10360.0	41.30	-2.34	54.00	12.70	156	253	Vertical
5	15540.0	43.45	2.07	54.00	10.55	225	79	Vertical
6	15540.0	52.01	2.07	74.00	21.99	168	313	Vertical

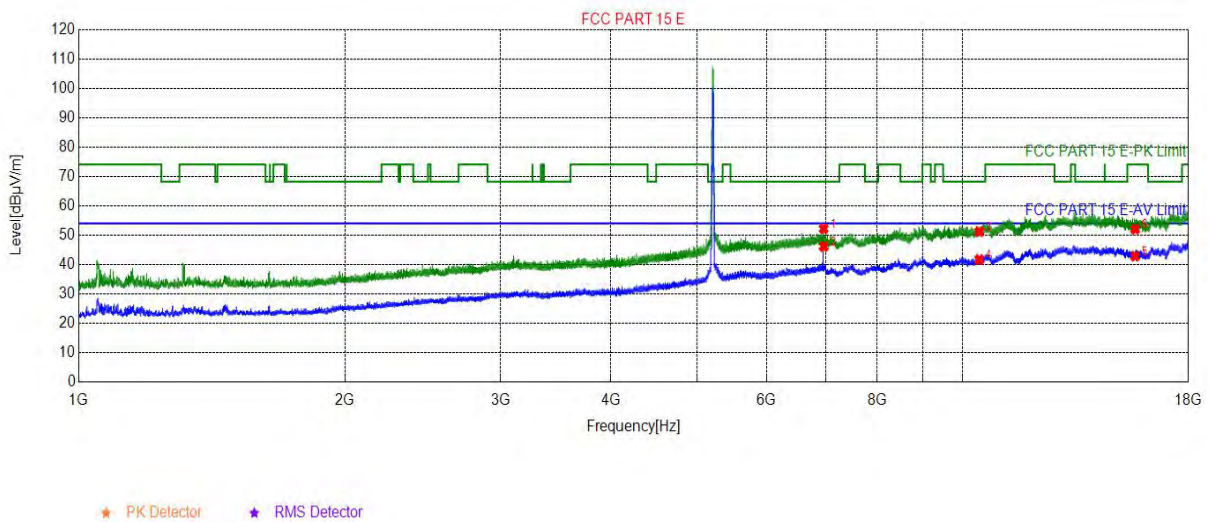
**Final Data List**



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### 802.11A\_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	6960.09	52.17	21.09	68.20	16.03	252	76	Horizontal
2	6960.39	46.11	21.09	54.00	7.89	174	76	Horizontal
3	10440.0	51.17	-2.03	68.20	17.03	168	224	Horizontal
4	10440.0	41.66	-2.03	54.00	12.34	224	216	Horizontal
5	15660.0	42.84	1.53	54.00	11.16	189	145	Horizontal
6	15660.0	52.00	1.53	74.00	22.00	174	360	Horizontal

#### Final Data List

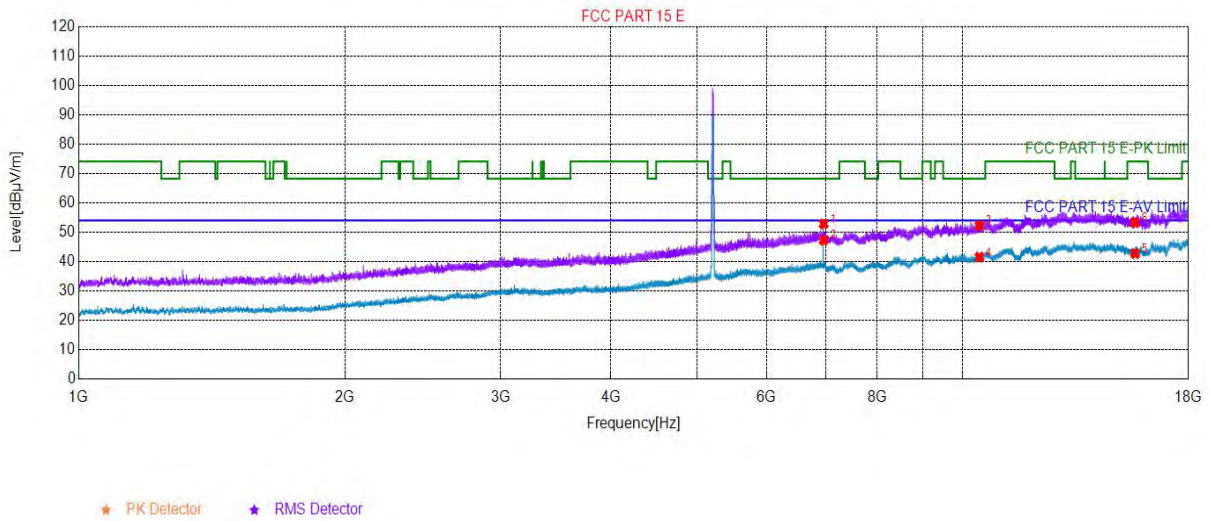


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**802.11A\_Channel 44**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6959.79	52.80	21.09	68.20	15.40	225	306	Vertical
2	6960.39	47.25	21.09	54.00	6.75	174	141	Vertical
3	10440.0	52.27	-2.03	68.20	15.93	165	44	Vertical
4	10440.0	41.50	-2.03	54.00	12.50	189	2	Vertical
5	15660.0	42.72	1.53	54.00	11.28	174	159	Vertical
6	15660.0	53.27	1.53	74.00	20.73	254	93	Vertical

**Final Data List**

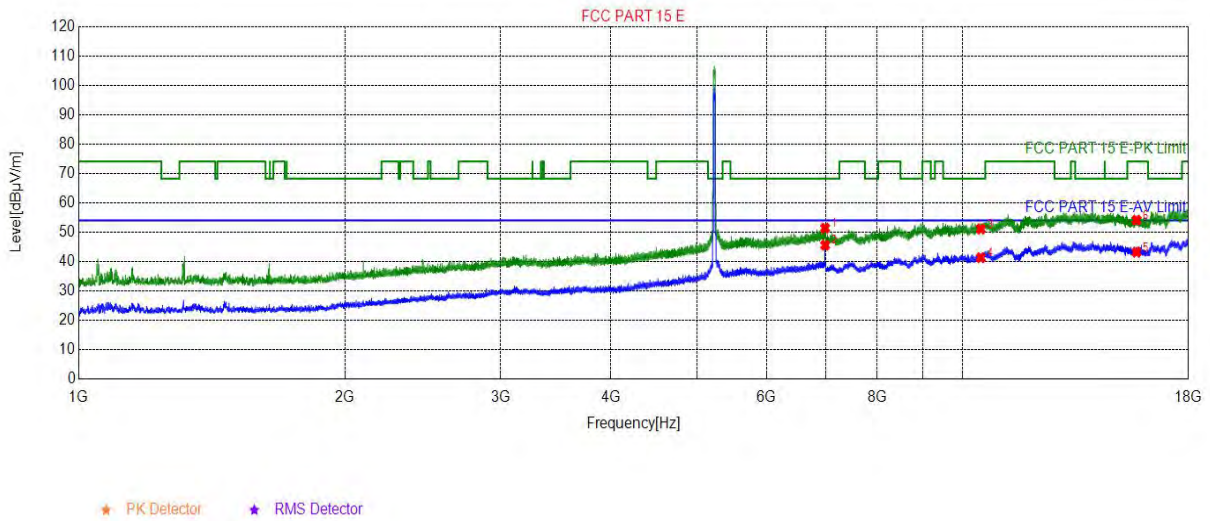


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**802.11A\_Channel 48**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.79	51.35	21.53	68.20	16.85	251	73	Horizontal
2	6987.09	45.56	21.53	54.00	8.44	174	73	Horizontal
3	10480.0	51.07	-1.93	68.20	17.13	165	278	Horizontal
4	10480.0	41.31	-1.93	54.00	12.69	187	63	Horizontal
5	15720.0	43.17	1.46	54.00	10.83	164	278	Horizontal
6	15720.0	54.09	1.46	74.00	19.91	125	254	Horizontal

**Final Data List**

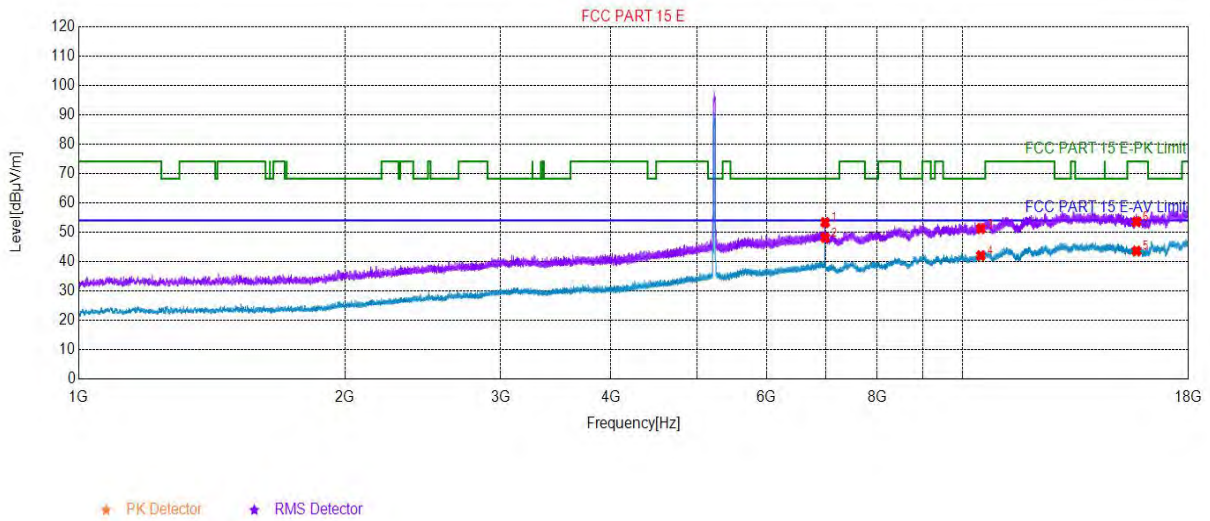


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**802.11A\_Channel 48**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.79	53.27	21.53	68.20	14.93	125	313	Vertical
2	6986.79	48.11	21.53	54.00	5.89	174	327	Vertical
3	10480.0	51.18	-1.93	68.20	17.02	168	66	Vertical
4	10480.0	42.01	-1.93	54.00	11.99	164	35	Vertical
5	15720.0	43.57	1.46	54.00	10.43	187	146	Vertical
6	15720.0	53.56	1.46	74.00	20.44	254	154	Vertical

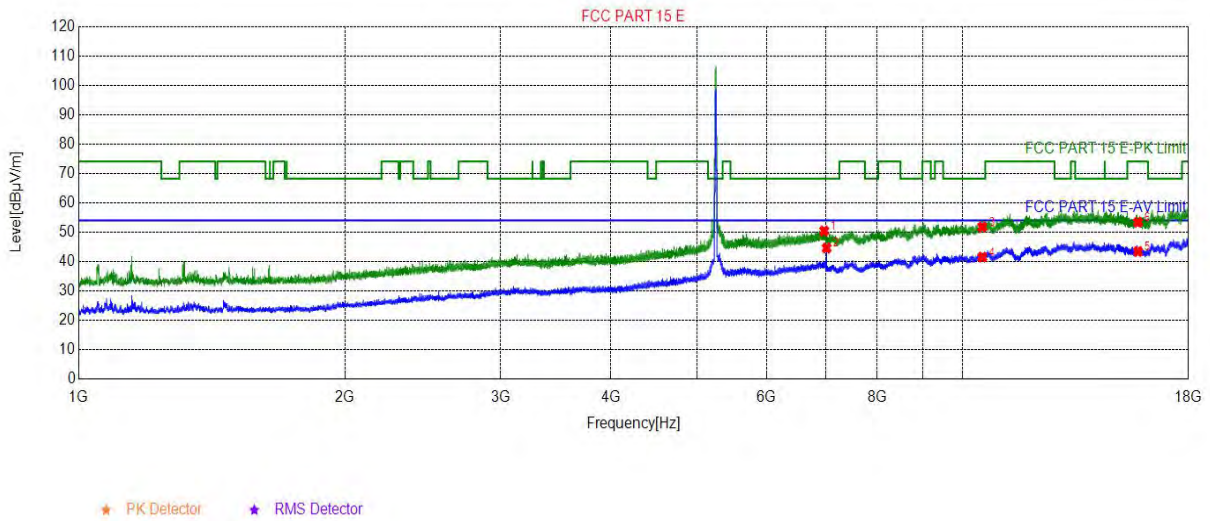
**Final Data List**



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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	6968.49	50.41	21.16	68.20	17.79	225	260	Horizontal
2	7013.75	44.56	-8.87	54.00	9.44	271	84	Horizontal
3	10520.0	51.75	-1.91	68.20	16.45	155	236	Horizontal
4	10520.0	41.47	-1.91	54.00	12.53	198	8	Horizontal
5	15780.0	43.40	1.54	54.00	10.60	175	24	Horizontal
6	15780.0	53.37	1.54	74.00	20.63	265	69	Horizontal

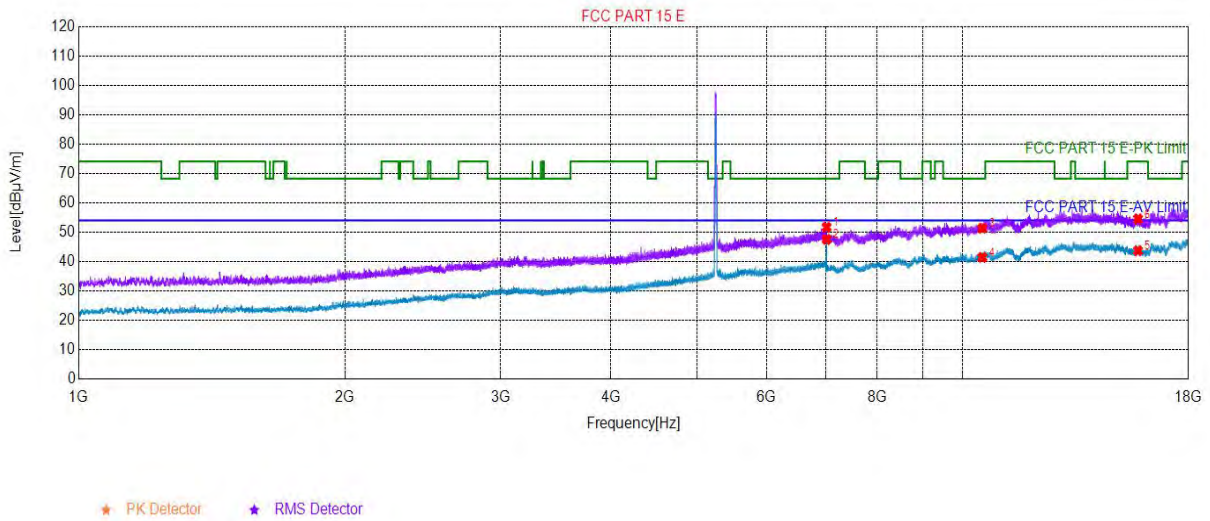
**Final Data List**



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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	7013.20	51.66	-8.87	68.20	16.54	155	334	Vertical
2	7013.75	47.53	-8.87	54.00	6.47	174	326	Vertical
3	10520.0	51.30	-1.91	68.20	16.90	169	353	Vertical
4	10520.0	41.39	-1.91	54.00	12.61	154	2	Vertical
5	15780.0	43.65	1.54	54.00	10.35	168	238	Vertical
6	15780.0	54.50	1.54	74.00	19.50	225	69	Vertical

Final Data List

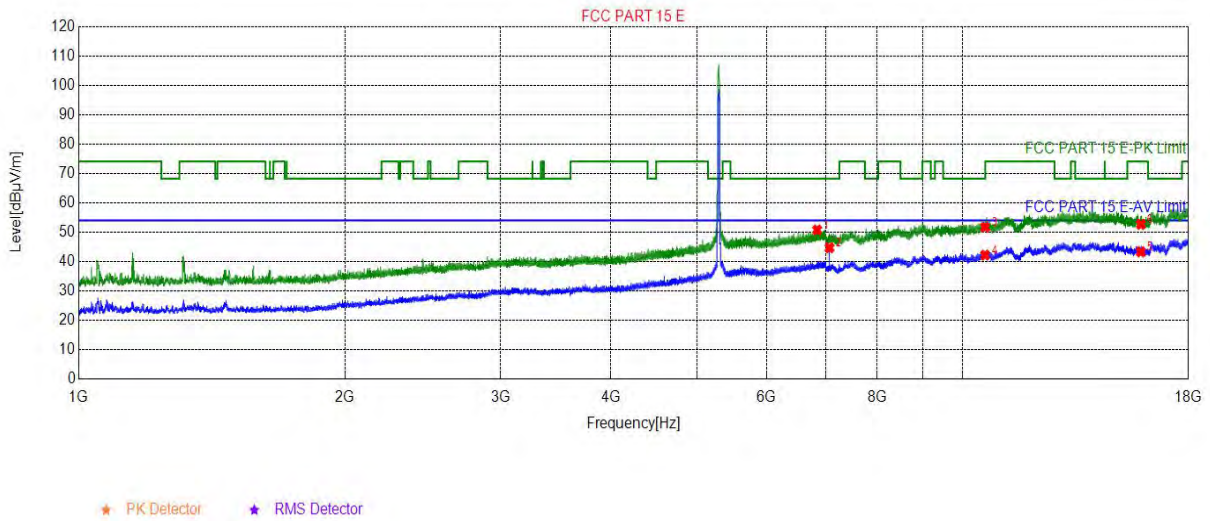


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**802.11A\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6842.79	50.74	21.46	68.20	17.46	174	183	Horizontal
2	7067.10	44.65	-8.34	54.00	9.35	165	69	Horizontal
3	10600.0	51.67	-1.66	74.00	22.33	184	314	Horizontal
4	10600.0	42.16	-1.66	54.00	11.84	165	188	Horizontal
5	15900.0	43.28	1.46	54.00	10.72	187	150	Horizontal
6	15900.0	52.65	1.46	74.00	21.35	252	238	Horizontal

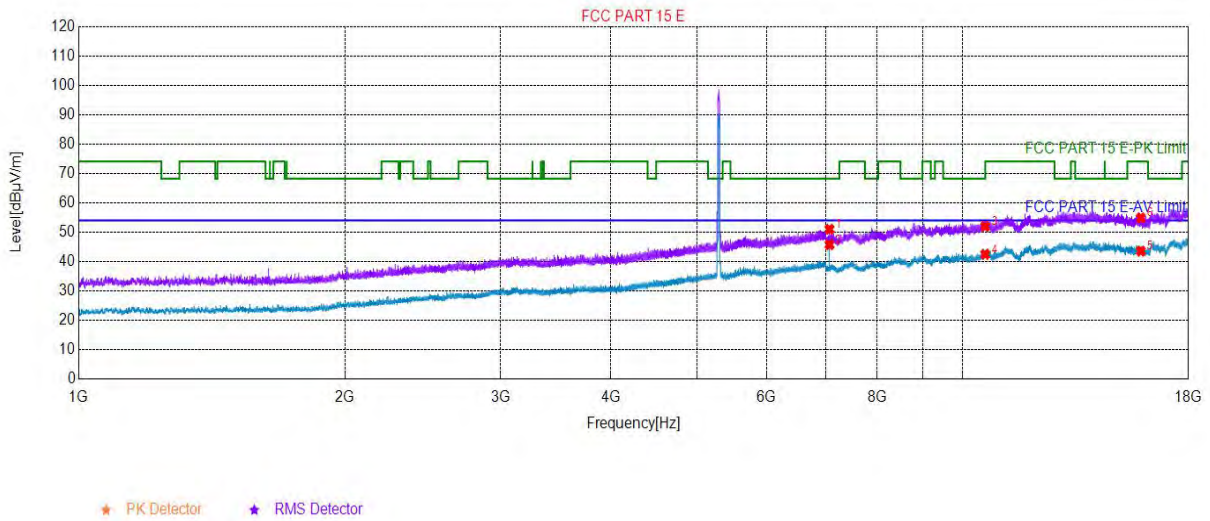
**Final Data List**



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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	7066.55	50.96	-8.35	68.20	17.24	225	337	Vertical
2	7067.10	45.71	-8.34	54.00	8.29	274	325	Vertical
3	10600.0	51.93	-1.66	74.00	22.07	264	81	Vertical
4	10600.0	42.44	-1.66	54.00	11.56	241	39	Vertical
5	15900.0	43.56	1.46	54.00	10.44	218	39	Vertical
6	15900.0	54.86	1.46	74.00	19.14	224	131	Vertical

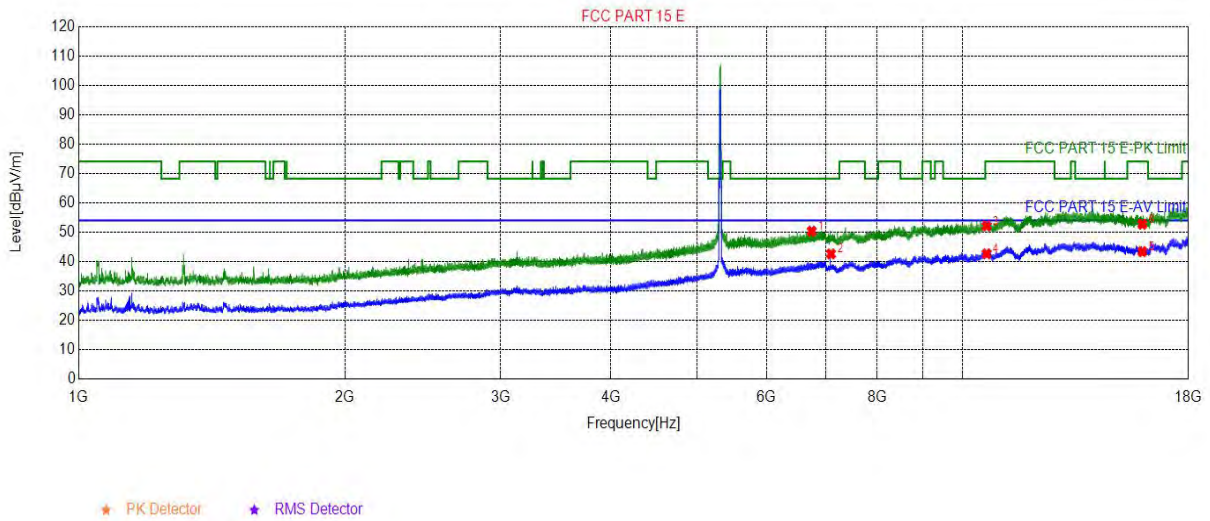
**Final Data List**



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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	6746.78	50.33	20.88	68.20	17.87	174	216	Horizontal
2	7094.05	42.60	-8.15	54.00	11.40	198	83	Horizontal
3	10640.0	52.06	-1.85	74.00	21.94	165	32	Horizontal
4	10640.0	42.64	-1.85	54.00	11.36	189	340	Horizontal
5	15960.0	43.37	0.90	54.00	10.63	252	174	Horizontal
6	15960.0	52.68	0.90	74.00	21.32	174	301	Horizontal

**Final Data List**

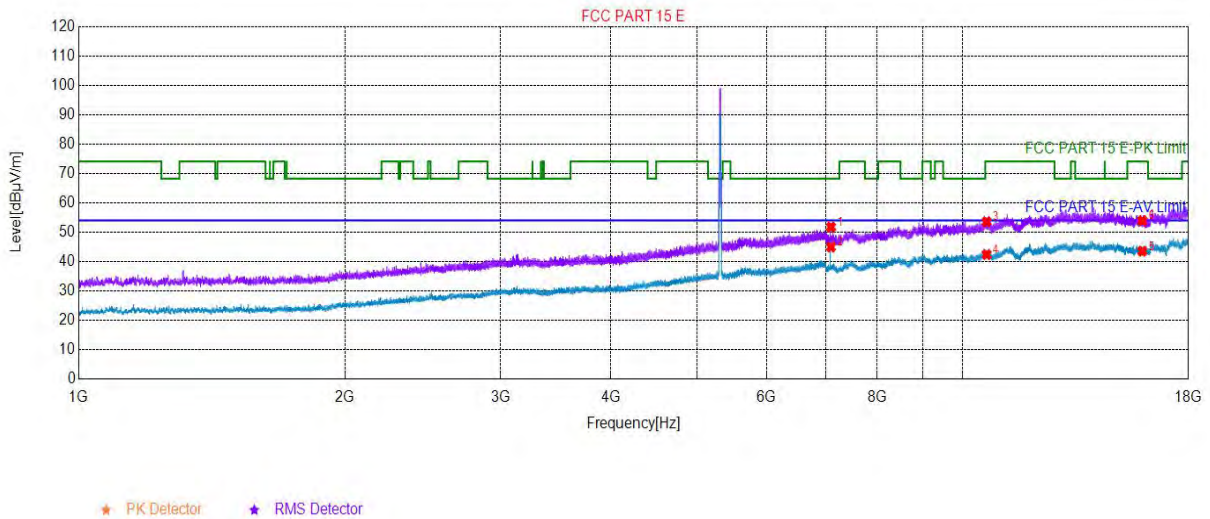


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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**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	7093.50	51.73	-8.15	68.20	16.47	252	138	Vertical
2	7094.05	44.95	-8.15	54.00	9.05	274	325	Vertical
3	10640.0	53.55	-1.85	74.00	20.45	265	25	Vertical
4	10640.0	42.36	-1.85	54.00	11.64	174	75	Vertical
5	15960.0	43.50	0.90	54.00	10.50	198	332	Vertical
6	15960.0	53.89	0.90	74.00	20.11	202	317	Vertical

**Final Data List**



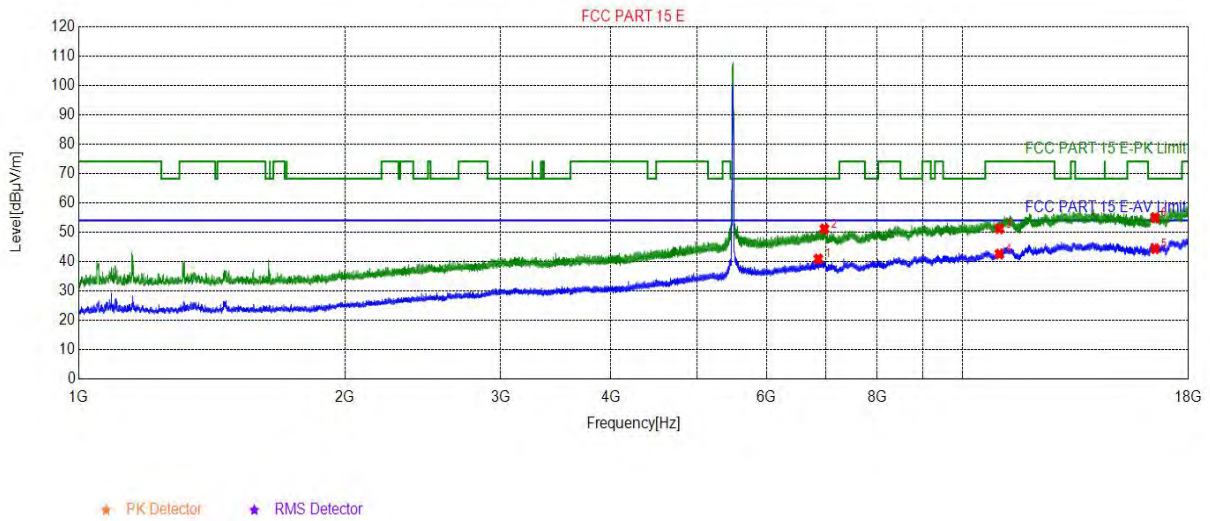
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**802.11A\_Channel 100**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6863.19	40.87	21.22	54.00	13.13	252	113	Horizontal
2	6974.19	51.11	21.27	68.20	17.09	174	257	Horizontal
3	11000.0	51.16	-0.75	74.00	22.84	198	70	Horizontal
4	11000.0	42.54	-0.75	54.00	11.46	252	327	Horizontal
5	16500.0	44.35	0.43	54.00	9.65	201	358	Horizontal
6	16500.0	54.90	0.43	68.20	13.30	154	47	Horizontal

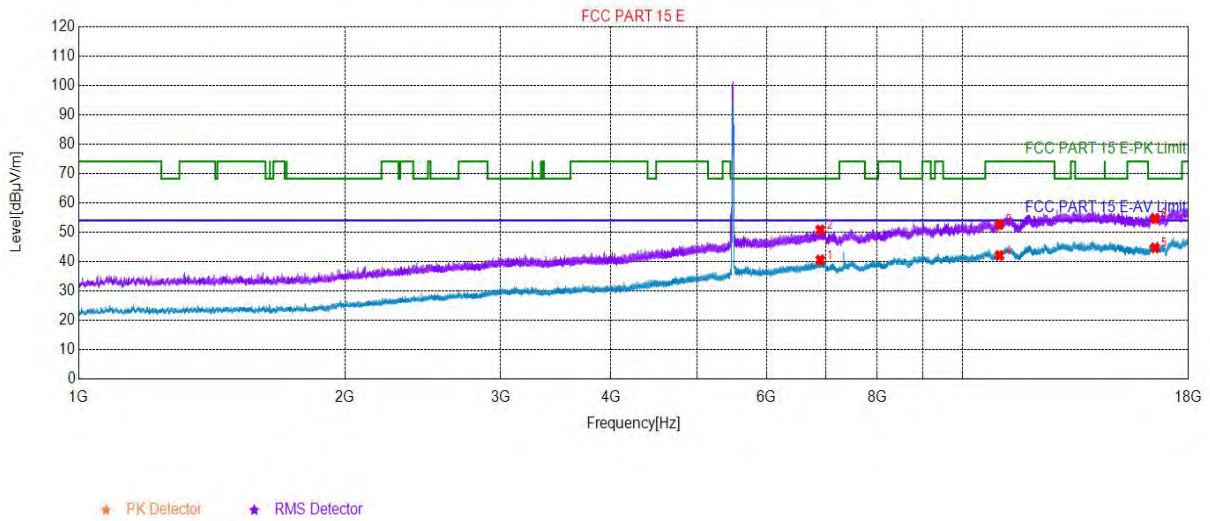
**Final Data List**



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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	6898.89	40.52	21.49	54.00	13.48	225	181	Vertical
2	6899.19	50.73	21.51	68.20	17.47	271	195	Vertical
3	11000.0	52.62	-0.75	74.00	21.38	241	358	Vertical
4	11000.0	42.04	-0.75	54.00	11.96	187	162	Vertical
5	16500.0	44.64	0.43	54.00	9.36	198	277	Vertical
6	16500.0	54.60	0.43	68.20	13.60	167	97	Vertical

**Final Data List**



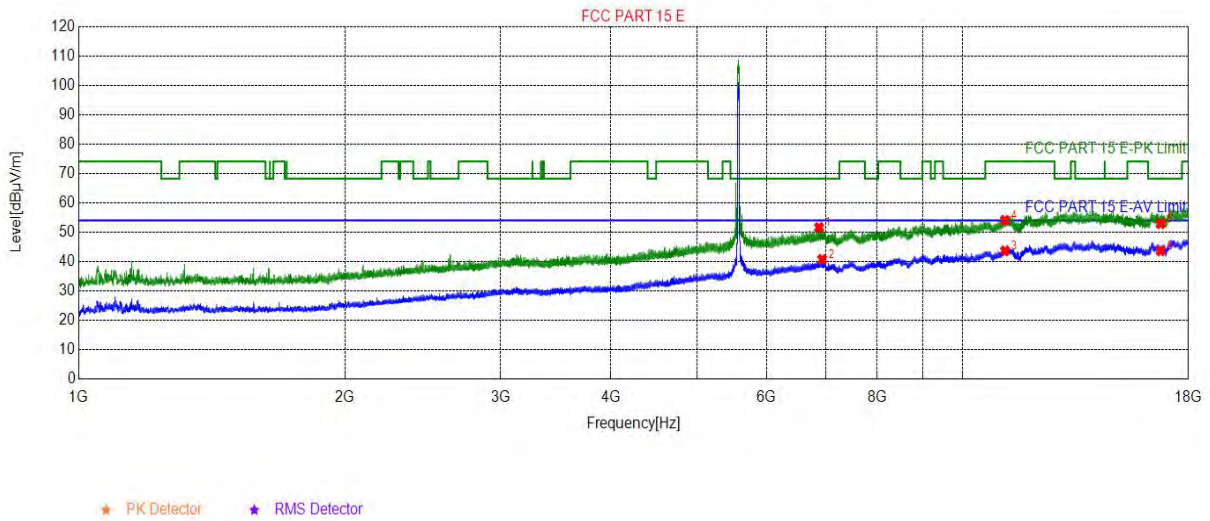
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**802.11A\_Channel 116**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6876.99	51.52	21.27	68.20	16.68	178	344	Horizontal
2	6931.89	40.68	21.43	54.00	13.32	189	93	Horizontal
3	11160.0	43.61	-0.59	54.00	10.39	166	268	Horizontal
4	11160.0	54.02	-0.59	74.00	19.98	194	344	Horizontal
5	16740.0	52.85	0.86	68.20	15.35	254	169	Horizontal
6	16740.0	43.62	0.86	54.00	10.38	178	261	Horizontal

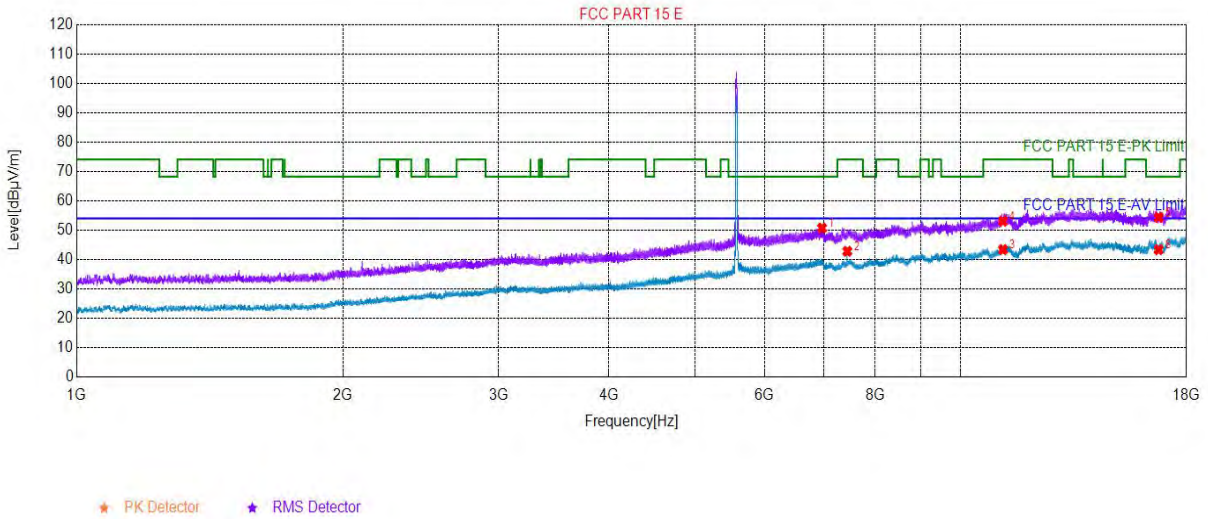
**Final Data List**



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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	6967.29	50.70	21.15	68.20	17.50	215	275	Vertical
2	7440.57	42.79	-7.54	54.00	11.21	222	146	Vertical
3	11160.0	43.36	-0.59	54.00	10.64	247	115	Vertical
4	11160.0	53.03	-0.59	74.00	20.97	188	154	Vertical
5	16740.0	54.33	0.86	68.20	13.87	197	16	Vertical
6	16740.0	43.33	0.86	54.00	10.67	165	146	Vertical

Final Data List

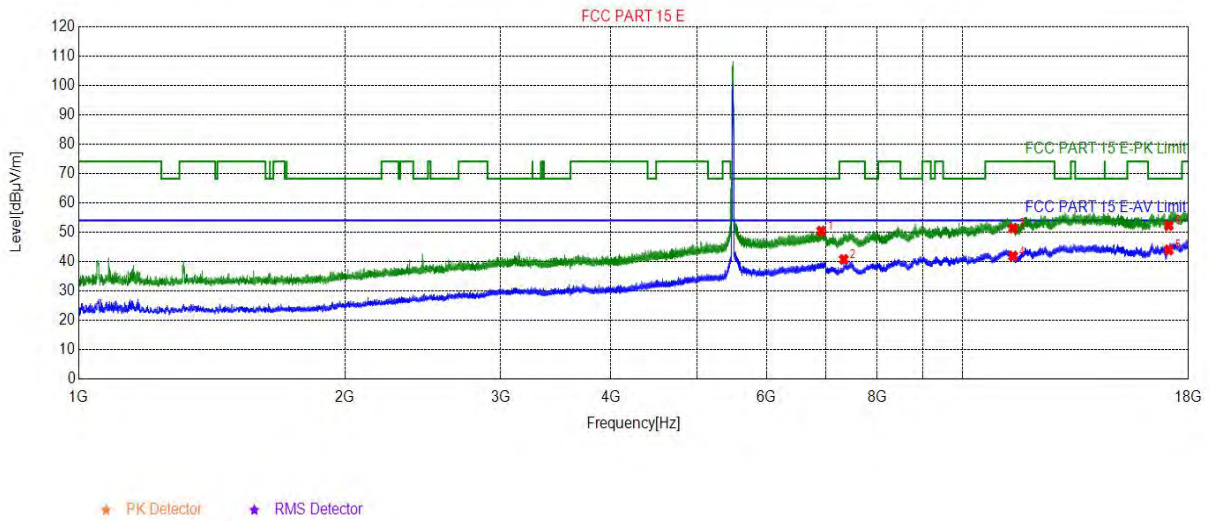


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**802.11A\_Channel 140**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6914.19	50.37	21.16	68.20	17.83	157	283	Horizontal
2	7333.86	40.71	-8.01	54.00	13.29	184	92	Horizontal
3	11400.0	51.32	-0.52	74.00	22.68	198	283	Horizontal
4	11400.0	41.83	-0.52	54.00	12.17	145	313	Horizontal
5	17100.0	43.91	-0.56	54.00	10.09	168	222	Horizontal
6	17100.0	52.29	-0.56	68.20	15.91	178	115	Horizontal

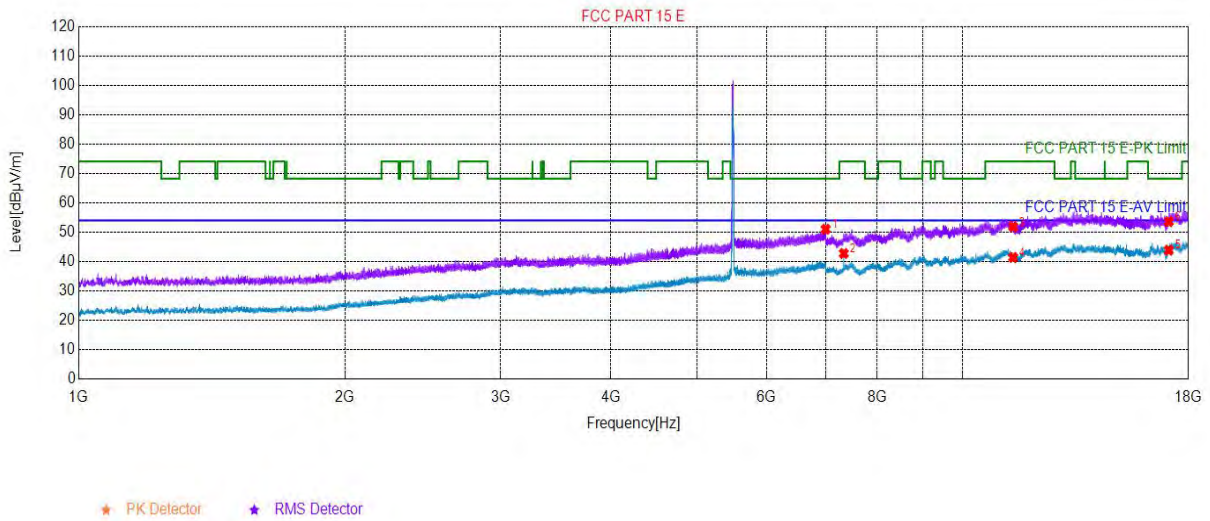
**Final Data List**



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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	6996.39	50.99	21.62	68.20	17.21	252	85	Vertical
2	7333.86	42.73	-8.01	54.00	11.27	241	161	Vertical
3	11400.0	51.84	-0.52	74.00	22.16	178	329	Vertical
4	11400.0	41.36	-0.52	54.00	12.64	163	252	Vertical
5	17100.0	43.86	-0.56	54.00	10.14	241	8	Vertical
6	17100.0	53.59	-0.56	68.20	14.61	198	54	Vertical

**Final Data List**



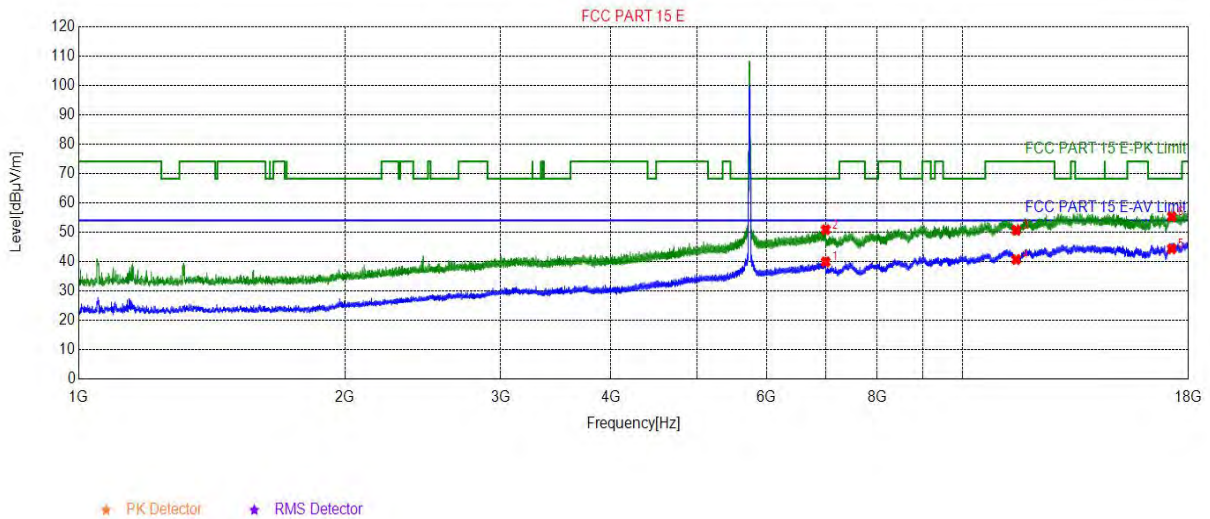
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**802.11A\_Channel 149**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6996.39	39.88	21.62	54.00	14.12	158	175	Horizontal
2	6998.19	50.82	21.63	68.20	17.38	174	62	Horizontal
3	11490.0	50.62	-0.61	74.00	23.38	198	91	Horizontal
4	11490.0	40.65	-0.61	54.00	13.35	148	38	Horizontal
5	17235.0	44.32	0.36	54.00	9.68	159	216	Horizontal
6	17235.0	55.32	0.36	68.20	12.88	184	163	Horizontal

**Final Data List**

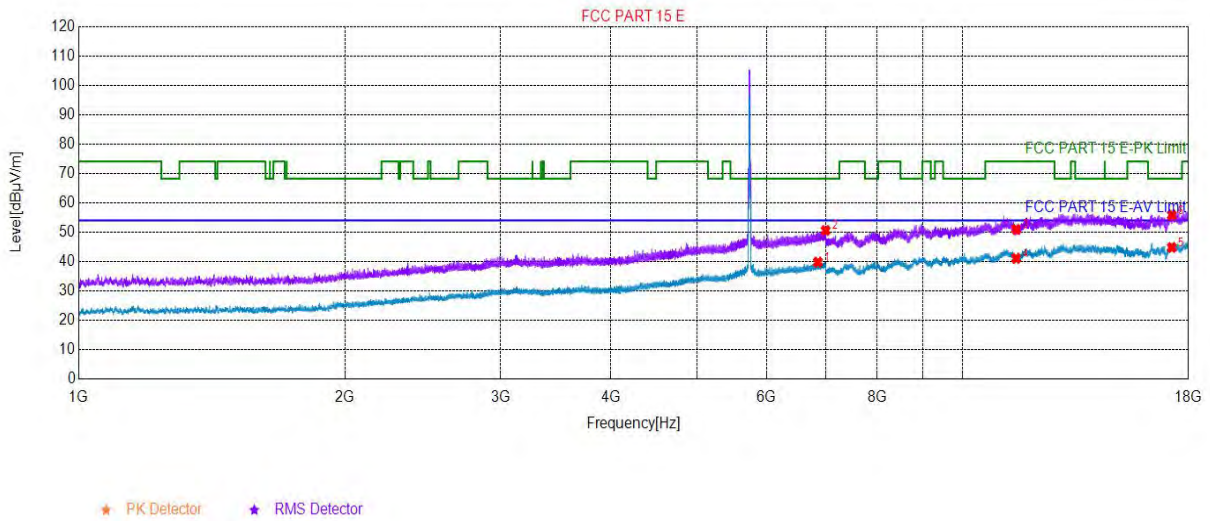


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802.11A\_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6856.29	39.79	21.39	54.00	14.21	185	75	Vertical
2	6994.59	50.56	21.61	68.20	17.64	174	273	Vertical
3	11490.0	50.94	-0.61	74.00	23.06	195	222	Vertical
4	11490.0	41.05	-0.61	54.00	12.95	184	138	Vertical
5	17235.0	44.77	0.36	54.00	9.23	198	215	Vertical
6	17235.0	55.84	0.36	68.20	12.36	154	336	Vertical

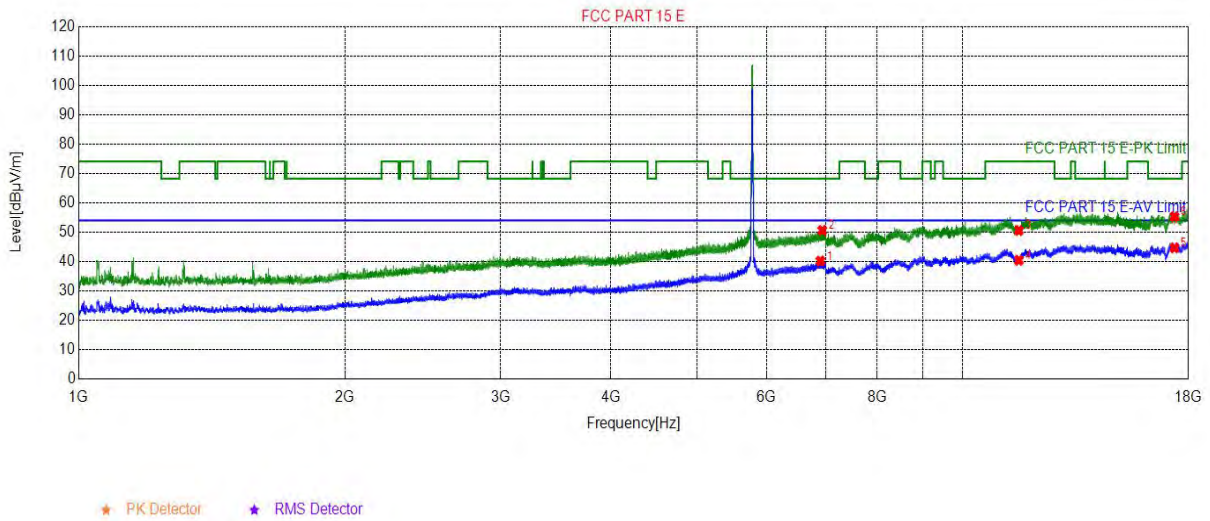
Final Data List



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**802.11A\_Channel 157**

**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	40.16	21.50	54.00	13.84	154	100	Horizontal
2	6934.89	50.59	21.45	68.20	17.61	187	236	Horizontal
3	11570.0	50.55	-0.41	74.00	23.45	195	2	Horizontal
4	11570.0	40.42	-0.41	54.00	13.58	184	284	Horizontal
5	17355.0	44.66	1.22	54.00	9.34	125	177	Horizontal
6	17355.0	55.28	1.22	68.20	12.92	254	101	Horizontal

**Final Data List**

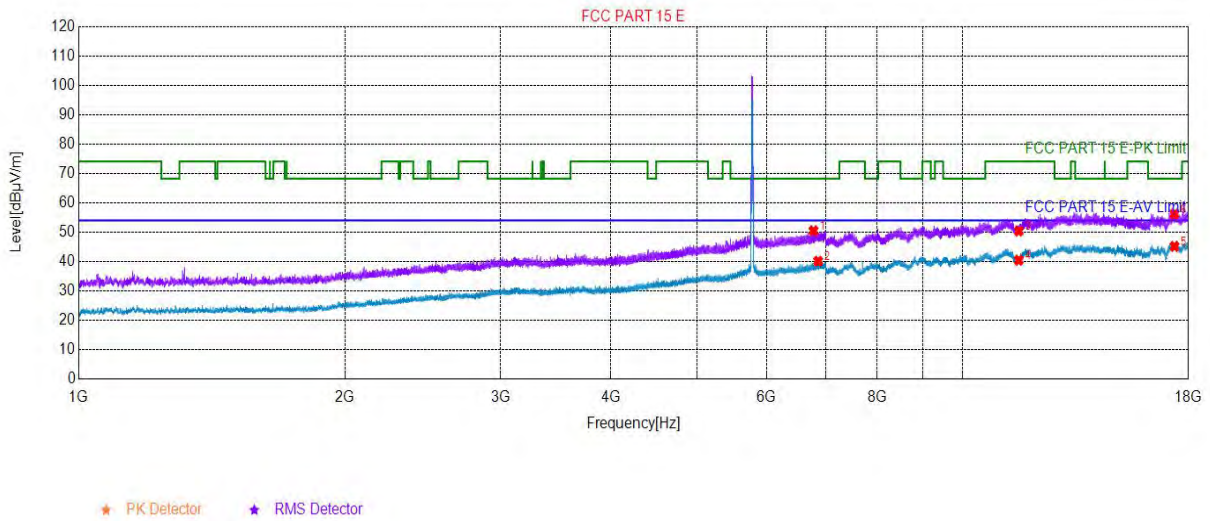


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**802.11A\_Channel 157**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6777.38	50.44	21.17	68.20	17.76	251	230	Vertical
2	6861.39	40.11	21.33	54.00	13.89	254	199	Vertical
3	11570.0	50.34	-0.41	74.00	23.66	178	290	Vertical
4	11570.0	40.43	-0.41	54.00	13.57	284	253	Vertical
5	17355.0	45.16	1.22	54.00	8.84	184	260	Vertical
6	17355.0	56.15	1.22	68.20	12.05	241	92	Vertical

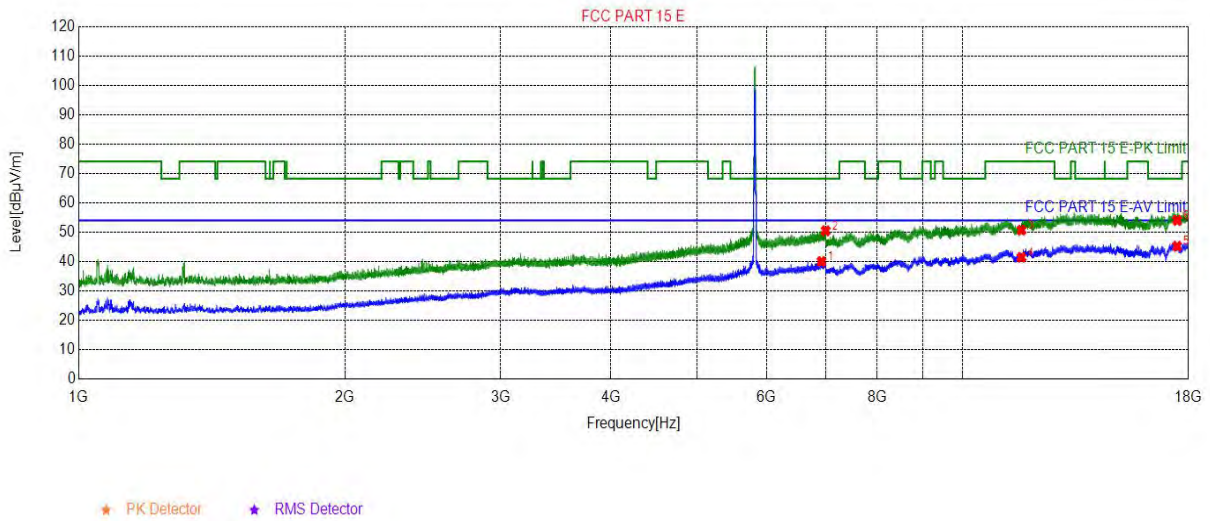
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**802.11A\_Channel 165**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6920.79	40.02	21.18	54.00	13.98	125	261	Horizontal
2	6996.99	50.46	21.62	68.20	17.74	178	306	Horizontal
3	11650.0	50.65	0.03	74.00	23.35	165	244	Horizontal
4	11650.0	41.41	0.03	54.00	12.59	241	336	Horizontal
5	17475.0	45.21	1.66	54.00	8.79	159	92	Horizontal
6	17475.0	54.02	1.66	68.20	14.18	241	351	Horizontal

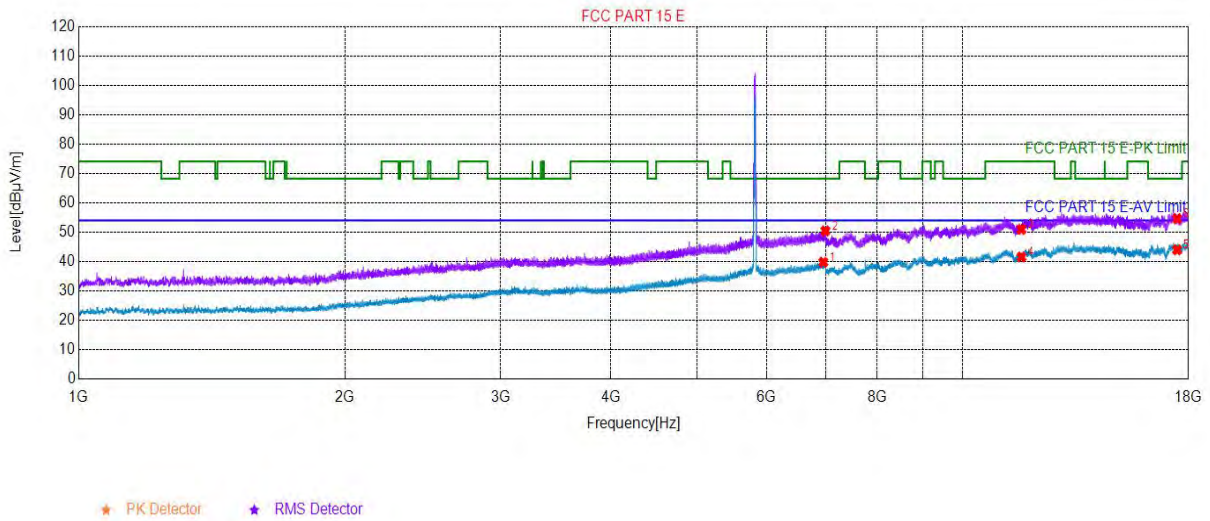
**Final Data List**



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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	6952.89	39.75	21.17	54.00	14.25	184	253	Vertical
2	6991.29	50.40	21.60	68.20	17.80	254	62	Vertical
3	11650.0	50.95	0.03	74.00	23.05	274	260	Vertical
4	11650.0	41.53	0.03	54.00	12.47	265	7	Vertical
5	17475.0	43.97	1.66	54.00	10.03	234	183	Vertical
6	17475.0	54.57	1.66	68.20	13.63	154	245	Vertical

**Final Data List**



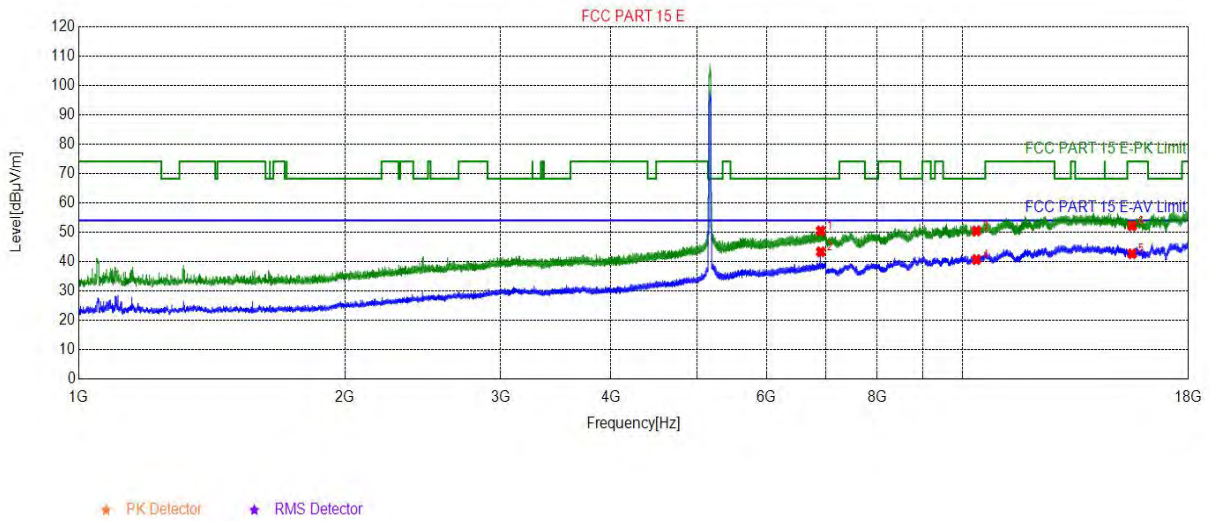
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**802.11N20\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.69	50.42	21.29	68.20	17.78	251	175	Horizontal
2	6906.99	43.30	21.28	54.00	10.70	174	115	Horizontal
3	10360.0	50.40	-2.34	68.20	17.80	184	358	Horizontal
4	10360.0	40.65	-2.34	54.00	13.35	195	358	Horizontal
5	15540.0	42.63	2.07	54.00	11.37	154	32	Horizontal
6	15540.0	52.08	2.07	74.00	21.92	188	70	Horizontal

**Final Data List**

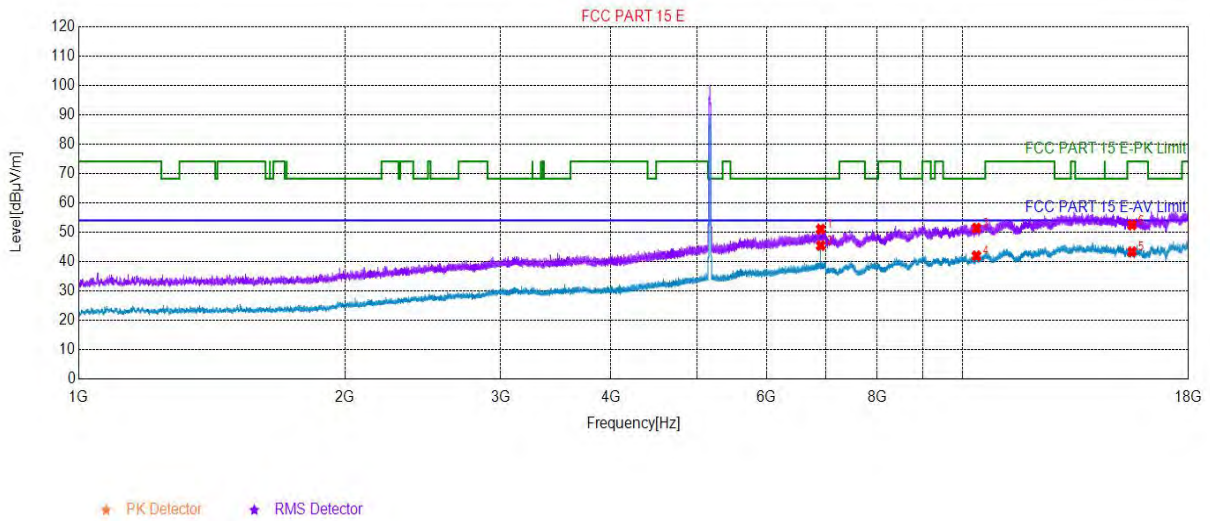


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**802.11N20\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.69	51.01	21.29	68.20	17.19	187	16	Vertical
2	6906.99	45.42	21.28	54.00	8.58	165	2	Vertical
3	10360.0	51.37	-2.34	68.20	16.83	241	190	Vertical
4	10360.0	41.93	-2.34	54.00	12.07	195	44	Vertical
5	15540.0	43.32	2.07	54.00	10.68	184	190	Vertical
6	15540.0	52.45	2.07	74.00	21.55	168	60	Vertical

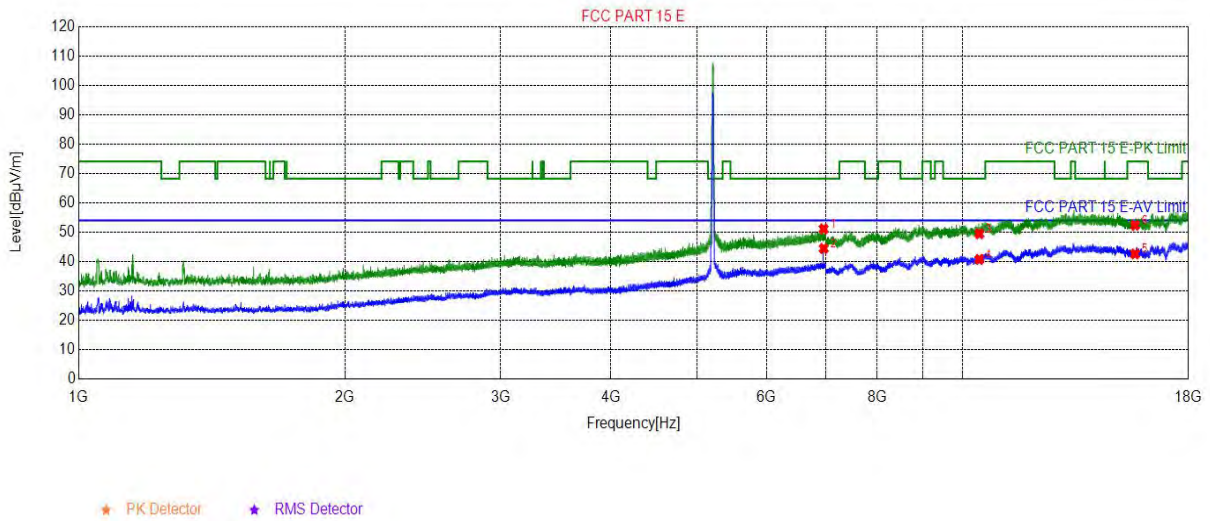
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802.11N20\_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6959.79	51.08	21.09	68.20	17.12	252	168	Horizontal
2	6960.39	44.41	21.09	54.00	9.59	174	108	Horizontal
3	10440.0	49.44	-2.03	68.20	18.76	184	154	Horizontal
4	10440.0	40.69	-2.03	54.00	13.31	352	275	Horizontal
5	15660.0	42.59	1.53	54.00	11.41	148	70	Horizontal
6	15660.0	52.35	1.53	74.00	21.65	145	9	Horizontal

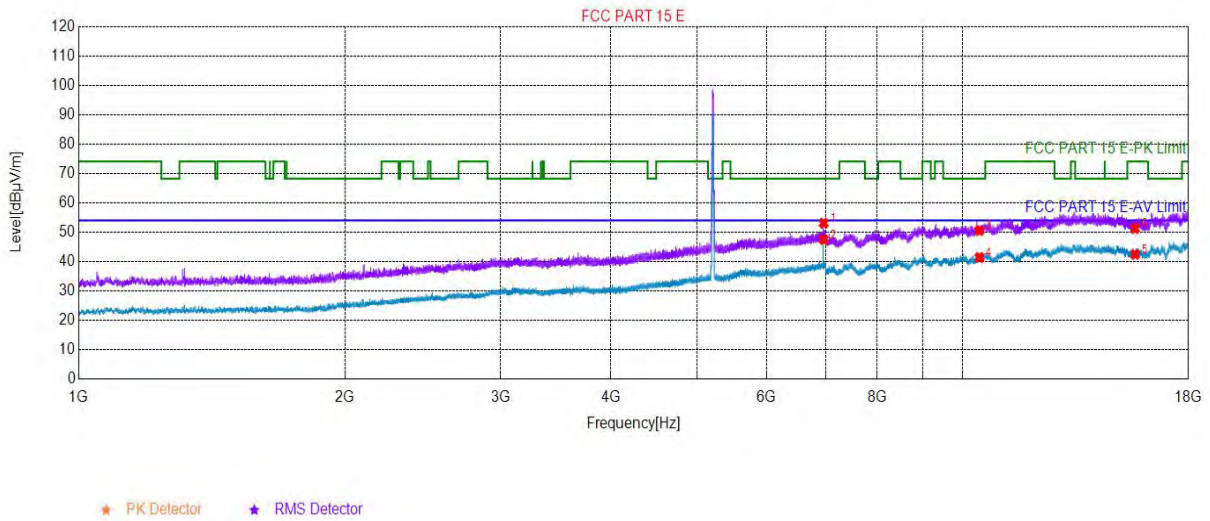
Final Data List



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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	6959.79	53.03	21.09	68.20	15.17	152	337	Vertical
2	6960.09	47.48	21.09	54.00	6.52	174	352	Vertical
3	10440.0	50.52	-2.03	68.20	17.68	165	84	Vertical
4	10440.0	41.37	-2.03	54.00	12.63	241	229	Vertical
5	15660.0	42.41	1.53	54.00	11.59	195	252	Vertical
6	15660.0	51.24	1.53	74.00	22.76	185	84	Vertical

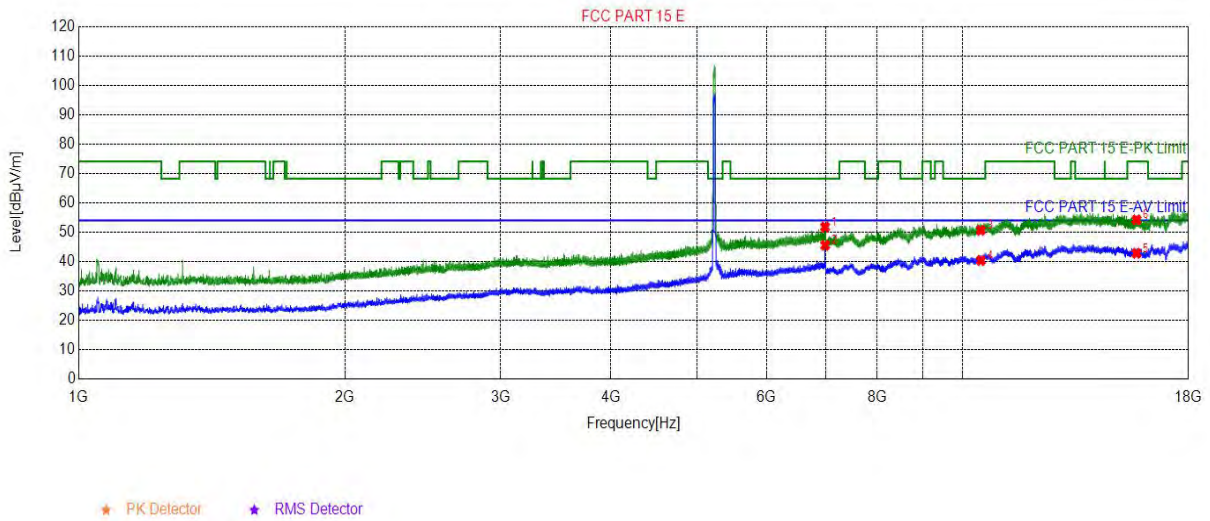
**Final Data List**



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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	6986.49	51.72	21.52	68.20	16.48	254	107	Horizontal
2	6987.09	45.54	21.53	54.00	8.46	198	115	Horizontal
3	10480.0	50.60	-1.93	68.20	17.60	174	343	Horizontal
4	10480.0	40.34	-1.93	54.00	13.66	158	169	Horizontal
5	15720.0	42.80	1.46	54.00	11.20	168	123	Horizontal
6	15720.0	54.19	1.46	74.00	19.81	148	93	Horizontal

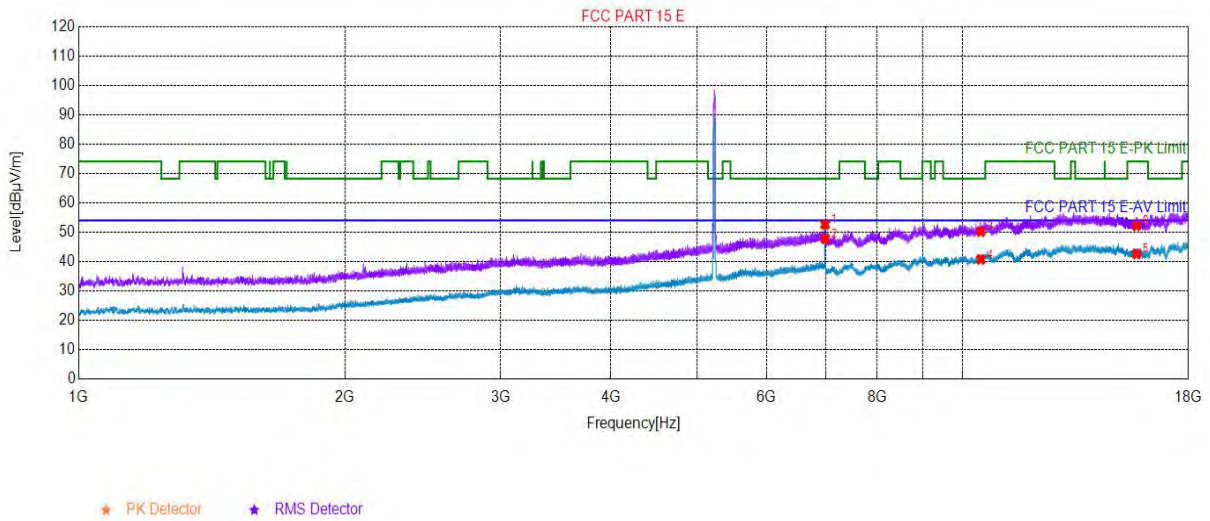
Final Data List



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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	6986.49	52.57	21.52	68.20	15.63	258	2	Vertical
2	6987.09	47.75	21.53	54.00	6.25	174	2	Vertical
3	10480.0	50.22	-1.93	68.20	17.98	321	15	Vertical
4	10480.0	40.71	-1.93	54.00	13.29	188	122	Vertical
5	15720.0	42.58	1.46	54.00	11.42	197	152	Vertical
6	15720.0	52.18	1.46	74.00	21.82	254	351	Vertical

**Final Data List**

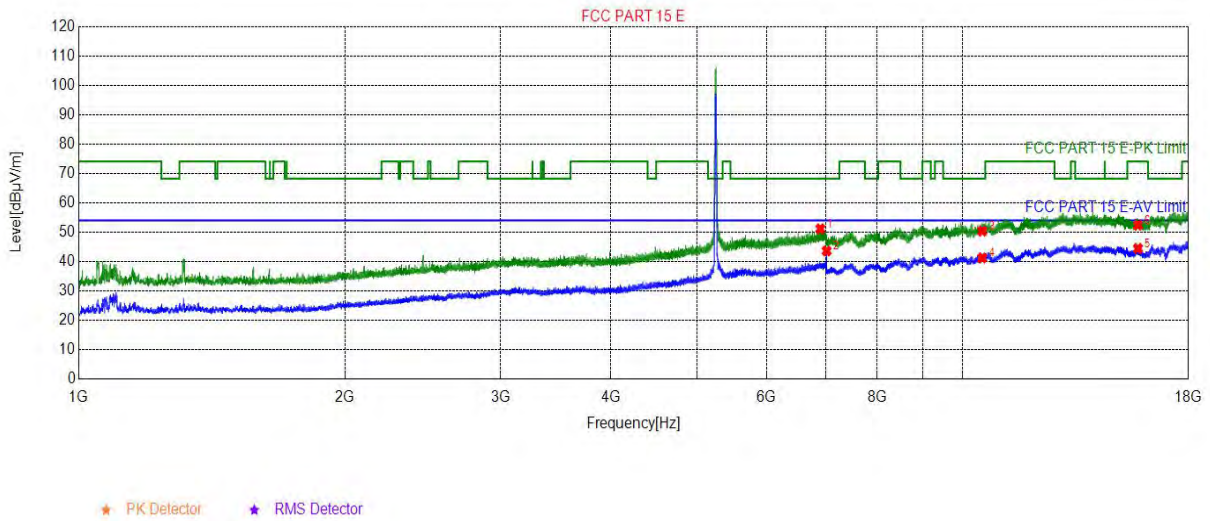


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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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	6900.09	51.14	21.55	68.20	17.06	225	92	Horizontal
2	7013.75	43.59	-8.87	54.00	10.41	274	114	Horizontal
3	10520.0	50.35	-1.91	68.20	17.85	184	183	Horizontal
4	10520.0	41.20	-1.91	54.00	12.80	195	275	Horizontal
5	15780.0	44.43	1.54	54.00	9.57	241	1	Horizontal
6	15780.0	52.35	1.54	74.00	21.65	244	15	Horizontal

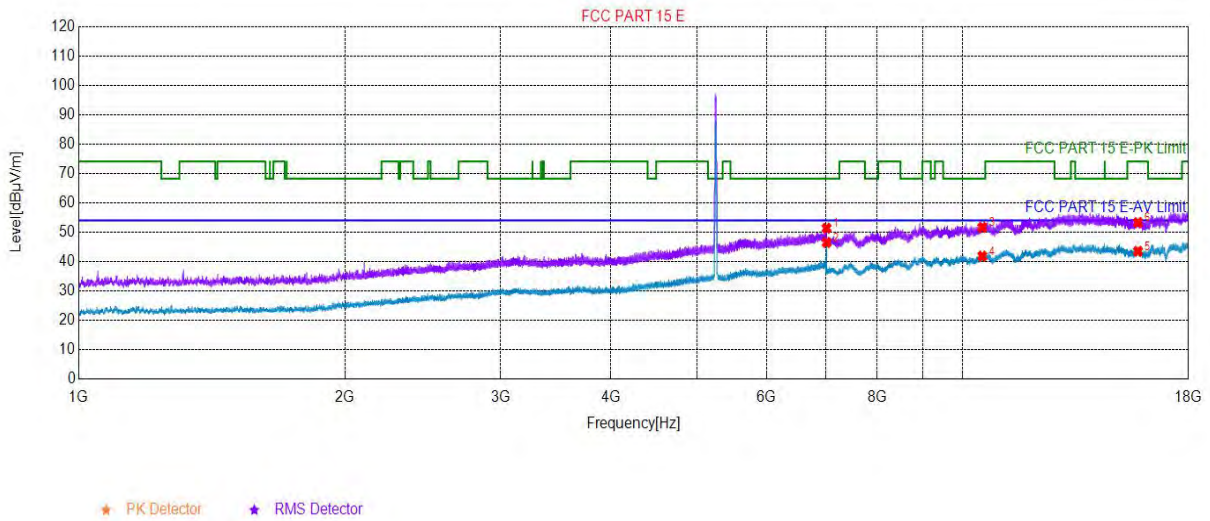
Final Data List



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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	7013.20	51.32	-8.87	68.20	16.88	254	24	Vertical
2	7013.75	46.45	-8.87	54.00	7.55	174	2	Vertical
3	10520.0	51.59	-1.91	68.20	16.61	165	47	Vertical
4	10520.0	41.83	-1.91	54.00	12.17	174	70	Vertical
5	15780.0	43.47	1.54	54.00	10.53	198	260	Vertical
6	15780.0	53.24	1.54	74.00	20.76	264	24	Vertical

Final Data List



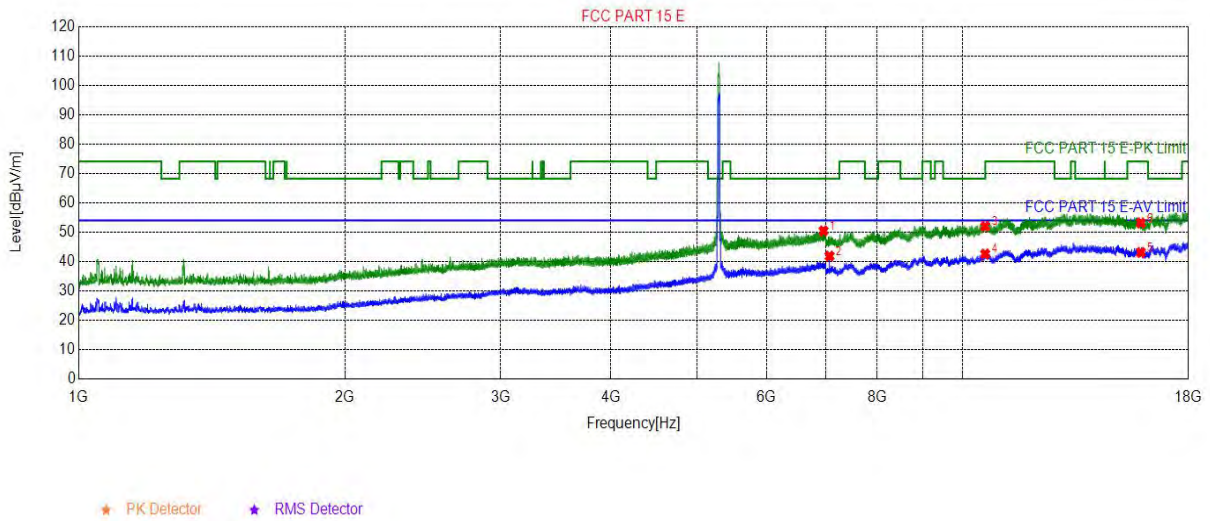
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**802.11N20\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6957.09	50.42	21.12	68.20	17.78	177	160	Horizontal
2	7067.10	41.85	-8.34	54.00	12.15	187	123	Horizontal
3	10600.0	51.97	-1.66	74.00	22.03	156	260	Horizontal
4	10600.0	42.55	-1.66	54.00	11.45	164	283	Horizontal
5	15900.0	43.09	1.46	54.00	10.91	192	336	Horizontal
6	15900.0	53.13	1.46	74.00	20.87	188	321	Horizontal

**Final Data List**

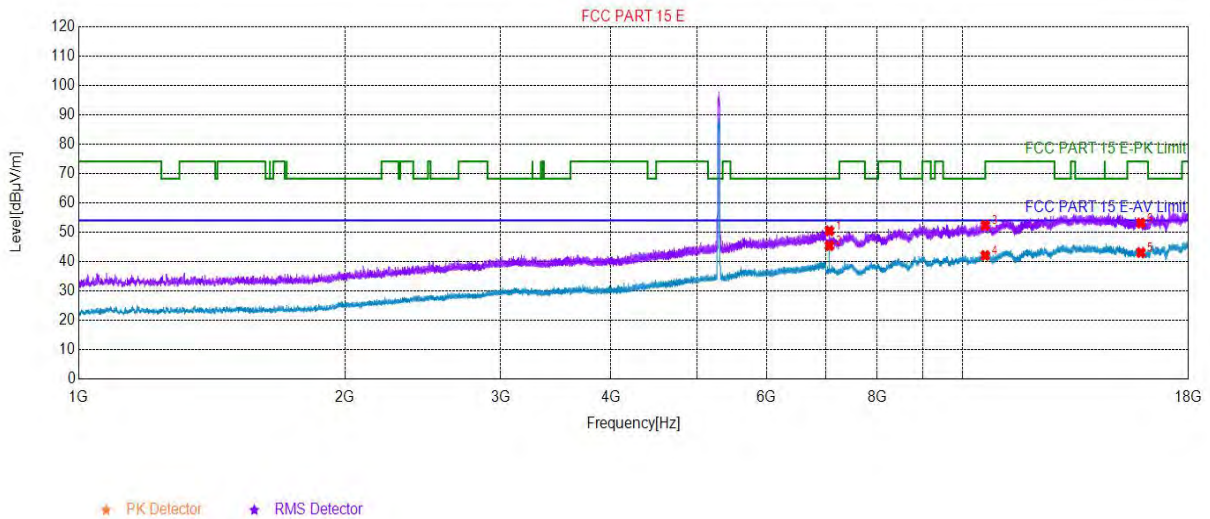


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**802.11N20\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7066.55	50.44	-8.35	68.20	17.76	178	162	Vertical
2	7067.10	45.37	-8.34	54.00	8.63	195	352	Vertical
3	10600.0	52.28	-1.66	74.00	21.72	164	219	Vertical
4	10600.0	42.06	-1.66	54.00	11.94	174	82	Vertical
5	15900.0	43.05	1.46	54.00	10.95	155	82	Vertical
6	15900.0	53.09	1.46	74.00	20.91	188	55	Vertical

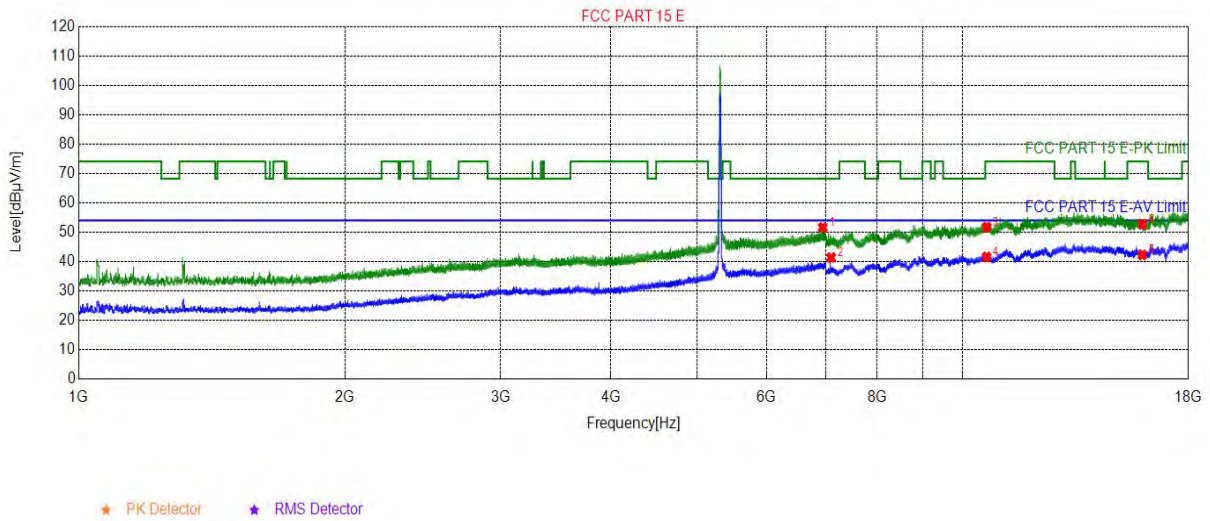
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**802.11N20\_Channel 64**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6942.99	51.59	21.40	68.20	16.61	177	184	Horizontal
2	7094.05	41.34	-8.15	54.00	12.66	158	115	Horizontal
3	10640.0	51.70	-1.85	74.00	22.30	196	283	Horizontal
4	10640.0	41.56	-1.85	54.00	12.44	154	2	Horizontal
5	15960.0	42.23	0.90	54.00	11.77	172	184	Horizontal
6	15960.0	52.68	0.90	74.00	21.32	166	222	Horizontal

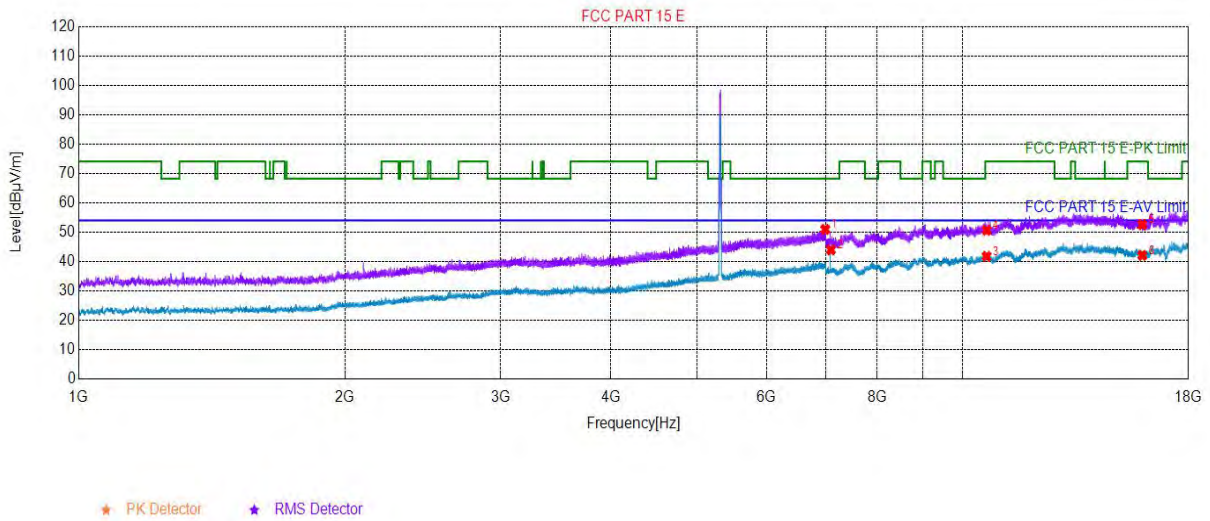
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**802.11N20\_Channel 64**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6989.49	50.94	21.58	68.20	17.26	215	108	Vertical
2	7094.05	43.94	-8.15	54.00	10.06	223	161	Vertical
3	10640.0	41.74	-1.85	54.00	12.26	216	62	Vertical
4	10640.0	50.61	-1.85	74.00	23.39	203	176	Vertical
5	15960.0	52.54	0.90	74.00	21.46	247	39	Vertical
6	15960.0	42.08	0.90	54.00	11.92	282	85	Vertical

**Final Data List**



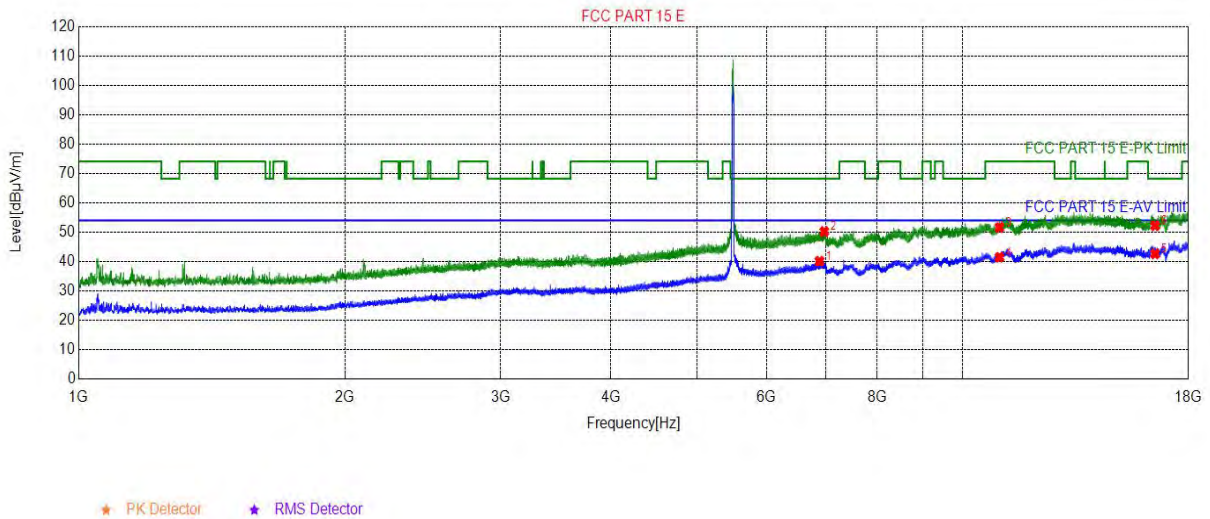
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802.11N20\_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6885.39	40.08	21.21	54.00	13.92	200	273	Horizontal
2	6970.29	50.19	21.18	68.20	18.01	253	242	Horizontal
3	11000.0	51.58	-0.75	74.00	22.42	269	306	Horizontal
4	11000.0	41.44	-0.75	54.00	12.56	287	204	Horizontal
5	16500.0	42.62	0.43	54.00	11.38	148	91	Horizontal
6	16500.0	52.19	0.43	68.20	16.01	198	1	Horizontal

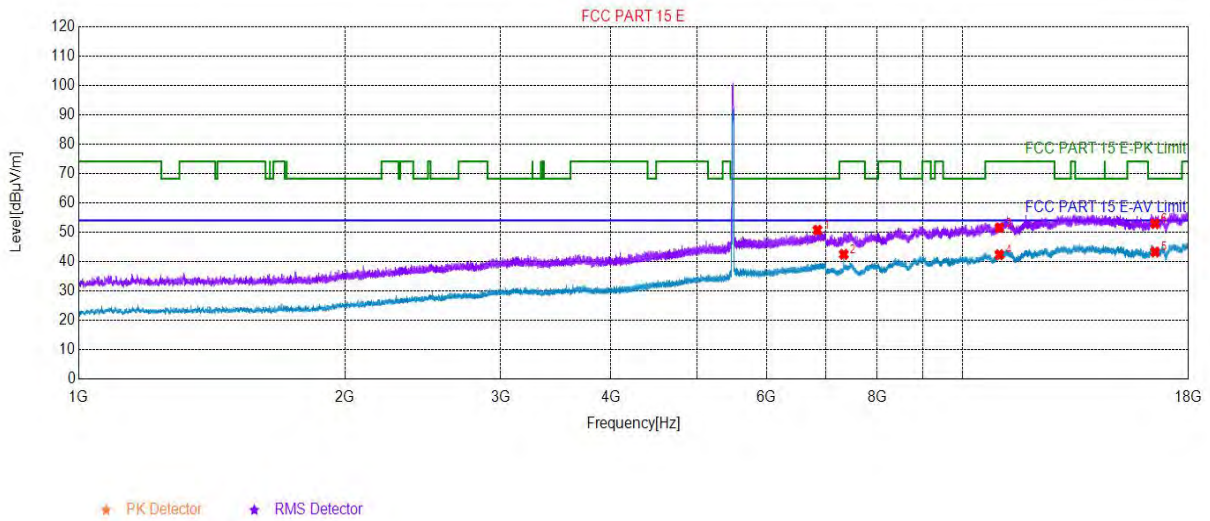
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**802.11N20\_Channel 100**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6848.49	50.68	21.37	68.20	17.52	211	267	Vertical
2	7333.86	42.41	-8.01	54.00	11.59	171	166	Vertical
3	11000.0	51.51	-0.75	74.00	22.49	354	221	Vertical
4	11000.0	42.33	-0.75	54.00	11.67	256	85	Vertical
5	16500.0	43.24	0.43	54.00	10.76	268	46	Vertical
6	16500.0	52.86	0.43	68.20	15.34	150	290	Vertical

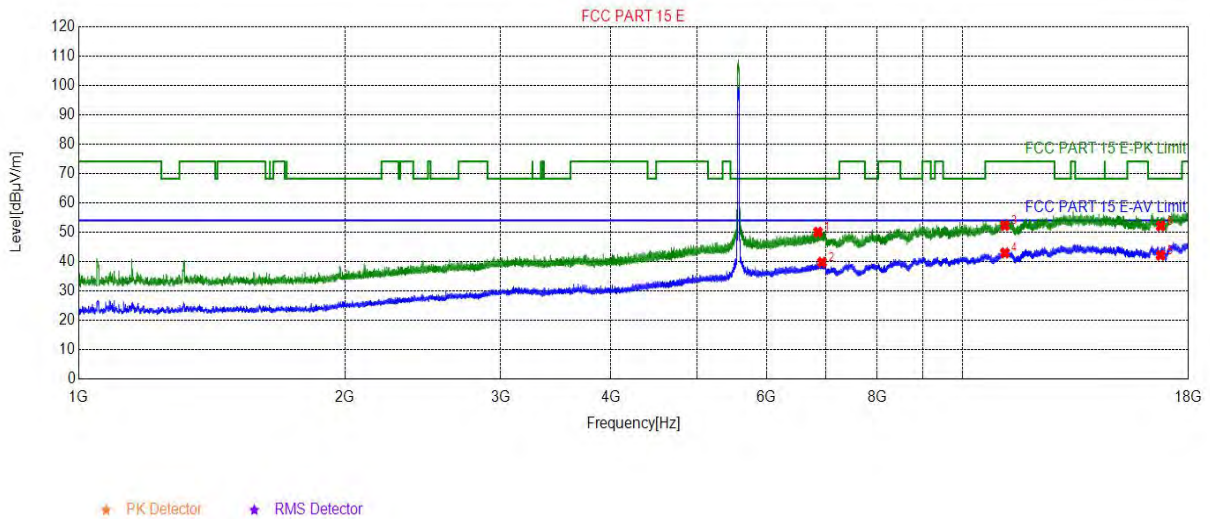
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**802.11N20\_Channel 116**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6858.69	50.03	21.40	68.20	18.17	78	296	Horizontal
2	6930.69	39.74	21.42	54.00	14.26	195	342	Horizontal
3	11160.0	52.22	-0.59	74.00	21.78	137	62	Horizontal
4	11160.0	42.91	-0.59	54.00	11.09	188	215	Horizontal
5	16740.0	42.12	0.86	54.00	11.88	241	268	Horizontal
6	16740.0	52.05	0.86	68.20	16.15	226	298	Horizontal

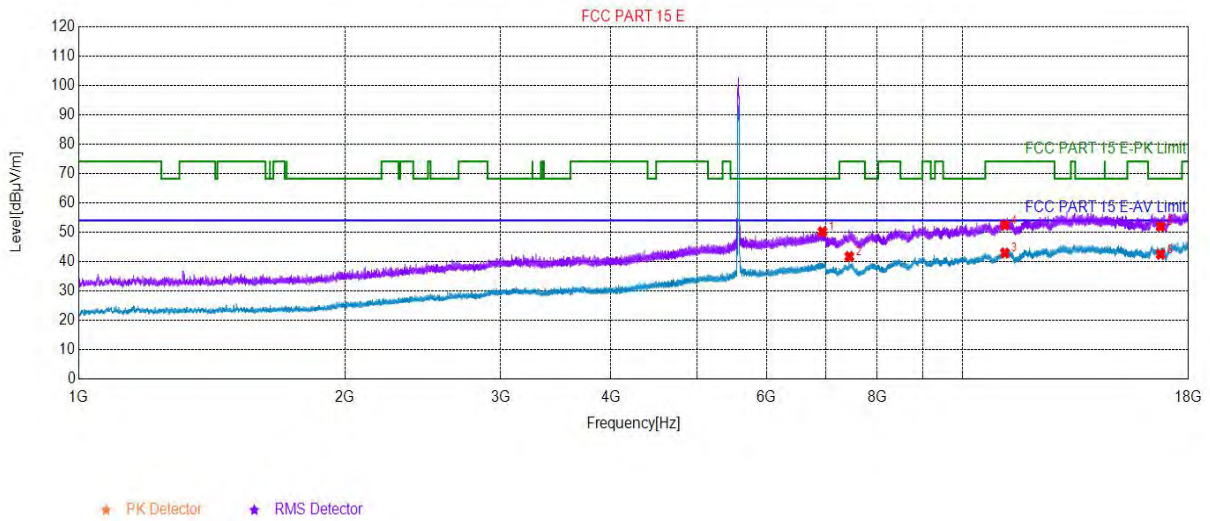
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**802.11N20\_Channel 116**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6937.59	50.12	21.46	68.20	18.08	224	183	Vertical
2	7440.57	41.68	-7.54	54.00	12.32	156	153	Vertical
3	11160.0	42.89	-0.59	54.00	11.11	187	23	Vertical
4	11160.0	52.42	-0.59	74.00	21.58	147	160	Vertical
5	16740.0	51.88	0.86	68.20	16.32	155	137	Vertical
6	16740.0	42.44	0.86	54.00	11.56	236	351	Vertical

**Final Data List**



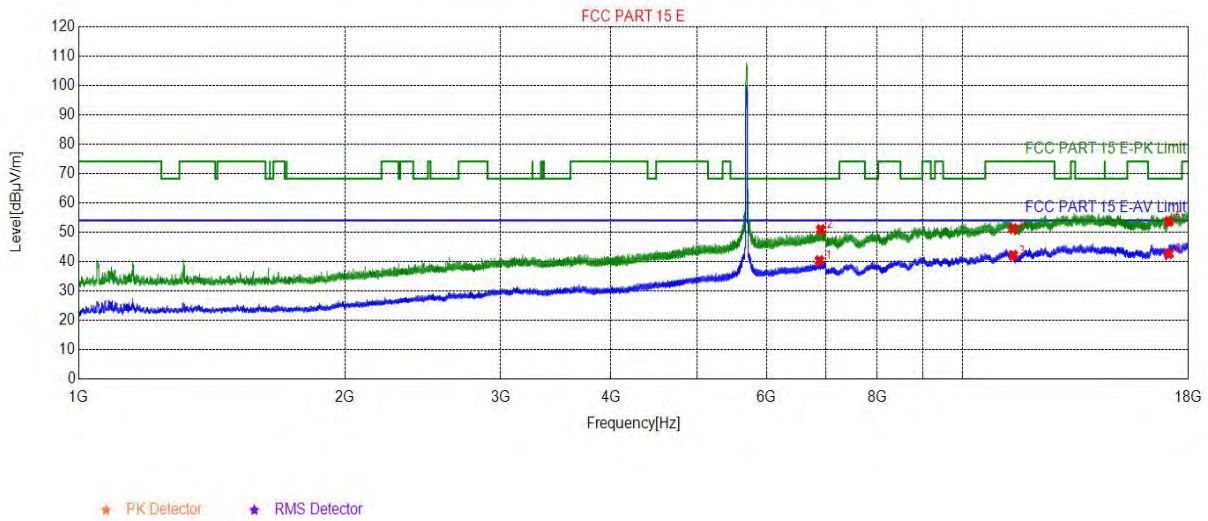
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**802.11N20\_Channel 140**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6884.19	40.29	21.27	54.00	13.71	178	92	Horizontal
2	6905.79	50.85	21.33	68.20	17.35	195	92	Horizontal
3	11400.0	42.11	-0.52	54.00	11.89	164	100	Horizontal
4	11400.0	51.17	-0.52	74.00	22.83	155	336	Horizontal
5	17100.0	53.63	-0.56	68.20	14.57	187	169	Horizontal
6	17100.0	42.68	-0.56	54.00	11.32	199	229	Horizontal

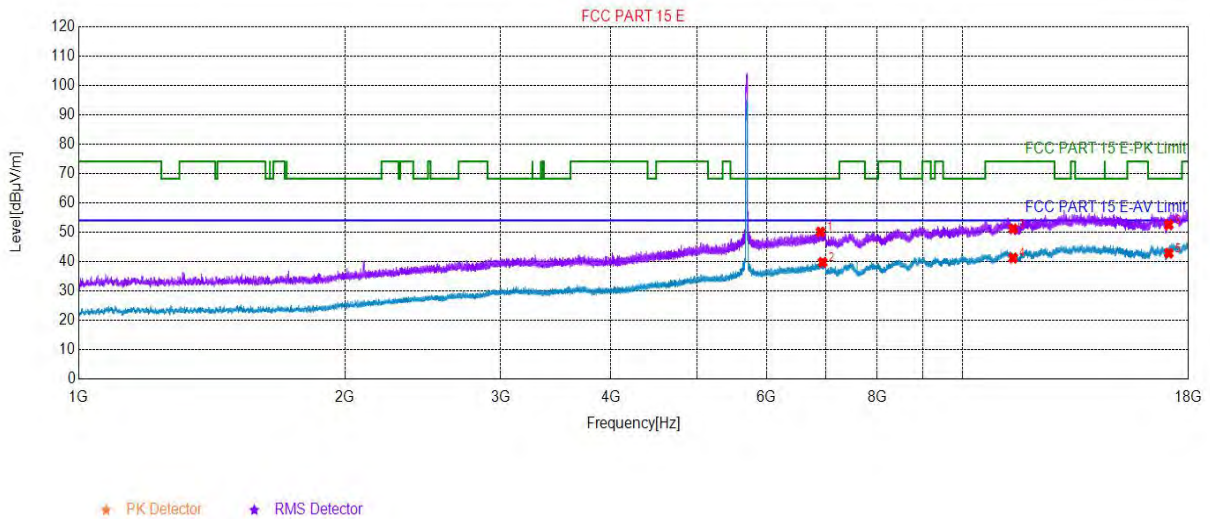
**Final Data List**



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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	6902.49	50.06	21.46	68.20	18.14	187	328	Vertical
2	6940.89	39.70	21.45	54.00	14.30	198	39	Vertical
3	11400.0	51.09	-0.52	74.00	22.91	155	269	Vertical
4	11400.0	41.20	-0.52	54.00	12.80	246	63	Vertical
5	17100.0	42.83	-0.56	54.00	11.17	275	109	Vertical
6	17100.0	52.50	-0.56	68.20	15.70	233	40	Vertical

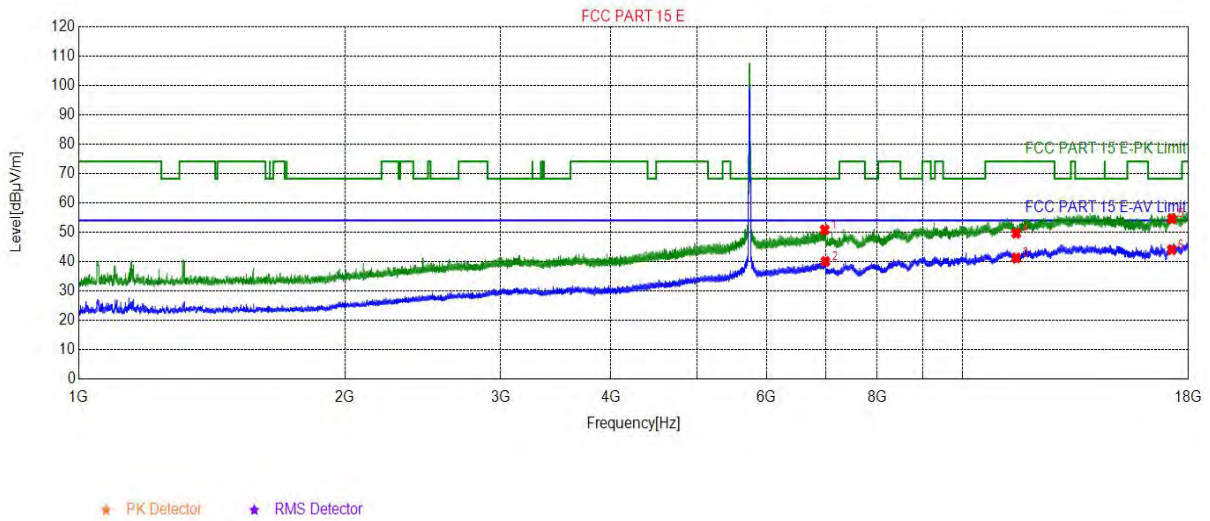
Final Data List



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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	6978.99	50.78	21.37	68.20	17.42	169	207	Horizontal
2	6990.69	40.01	21.59	54.00	13.99	188	184	Horizontal
3	11490.0	41.22	-0.61	54.00	12.78	210	117	Horizontal
4	11490.0	49.58	-0.61	74.00	24.42	171	110	Horizontal
5	17235.0	54.54	0.36	68.20	13.66	163	64	Horizontal
6	17235.0	43.98	0.36	54.00	10.02	188	351	Horizontal

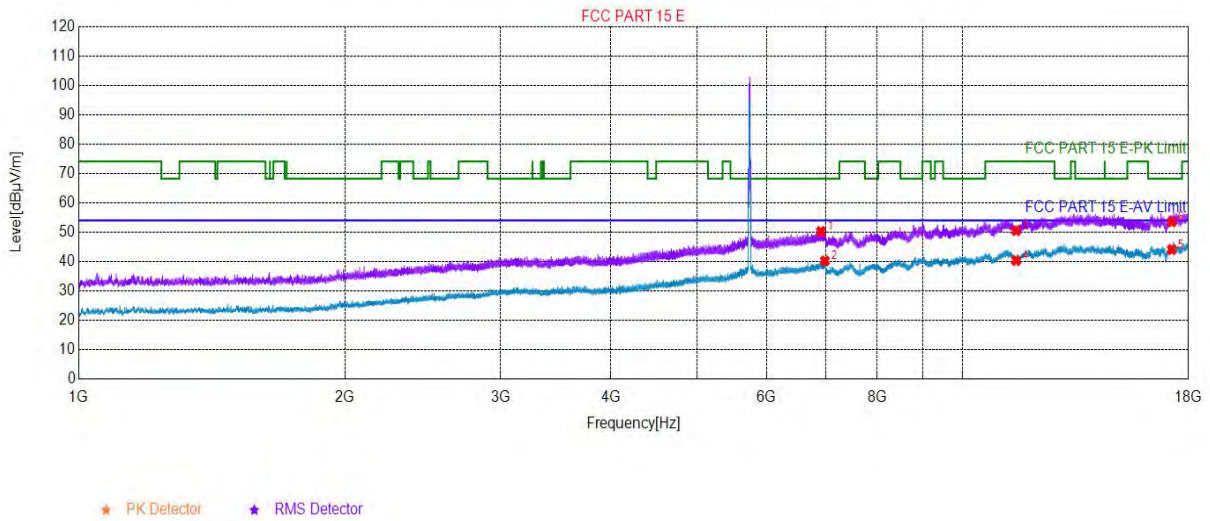
Final Data List



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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	6910.89	50.22	21.16	68.20	17.98	215	66	Vertical
2	6982.59	40.20	21.44	54.00	13.80	266	172	Vertical
3	11490.0	50.52	-0.61	74.00	23.48	236	2	Vertical
4	11490.0	40.33	-0.61	54.00	13.67	287	123	Vertical
5	17235.0	44.03	0.36	54.00	9.97	189	298	Vertical
6	17235.0	53.52	0.36	68.20	14.68	150	176	Vertical

**Final Data List**



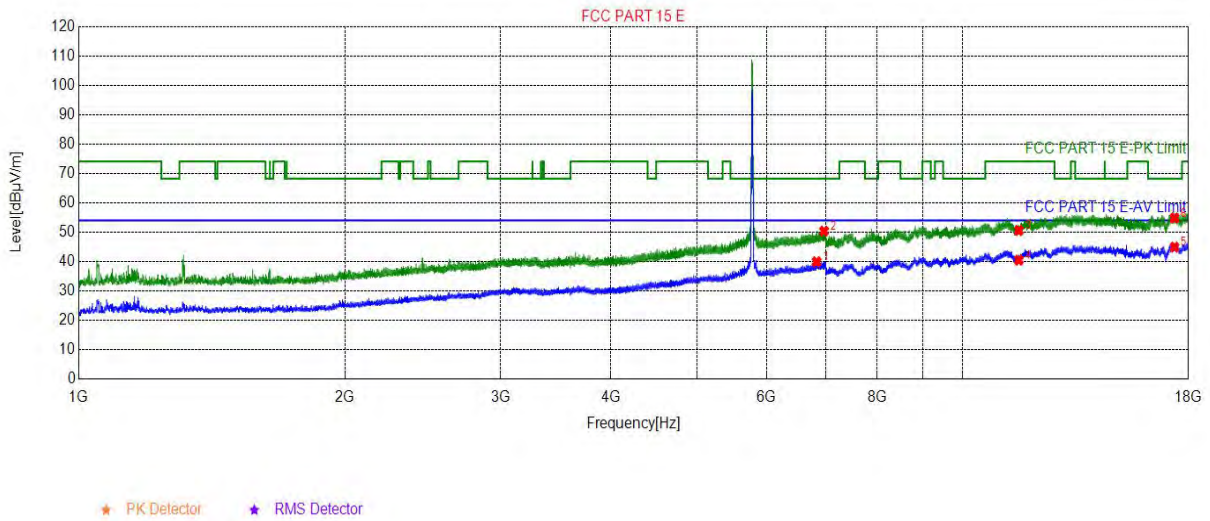
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**802.11N20\_Channel 157**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6832.29	39.92	21.09	54.00	14.08	205	229	Horizontal
2	6966.69	50.33	21.15	68.20	17.87	236	360	Horizontal
3	11570.0	50.56	-0.41	74.00	23.44	318	306	Horizontal
4	11570.0	40.47	-0.41	54.00	13.53	269	145	Horizontal
5	17355.0	44.90	1.22	54.00	9.10	357	152	Horizontal
6	17355.0	54.78	1.22	68.20	13.42	144	14	Horizontal

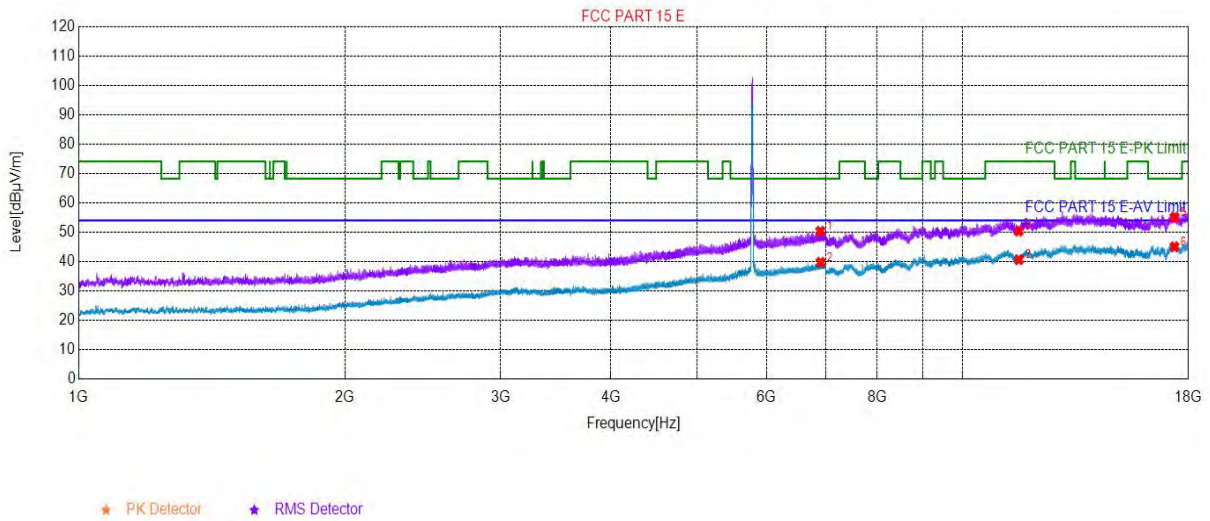
**Final Data List**



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**802.11N20\_Channel 157**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6898.29	50.28	21.46	68.20	17.92	224	107	Vertical
2	6904.29	39.70	21.39	54.00	14.30	178	46	Vertical
3	11570.0	40.63	-0.41	54.00	13.37	196	216	Vertical
4	11570.0	50.33	-0.41	74.00	23.67	188	60	Vertical
5	17355.0	55.02	1.22	68.20	13.18	156	84	Vertical
6	17355.0	45.01	1.22	54.00	8.99	213	269	Vertical

**Final Data List**

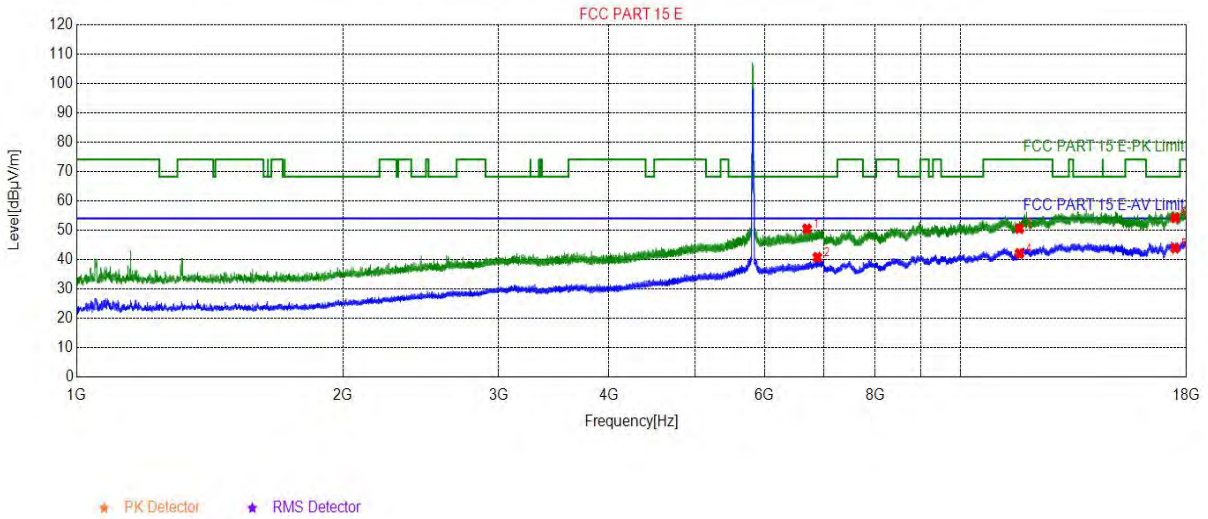


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**802.11N20\_Channel 165**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6698.48	50.40	21.22	68.20	17.80	177	24	Horizontal
2	6881.49	40.73	21.39	54.00	13.27	187	77	Horizontal
3	11650.0	50.55	0.03	74.00	23.45	195	252	Horizontal
4	11650.0	42.05	0.03	54.00	11.95	164	344	Horizontal
5	17475.0	43.85	1.66	54.00	10.15	182	358	Horizontal
6	17475.0	54.18	1.66	68.20	14.02	154	199	Horizontal

**Final Data List**

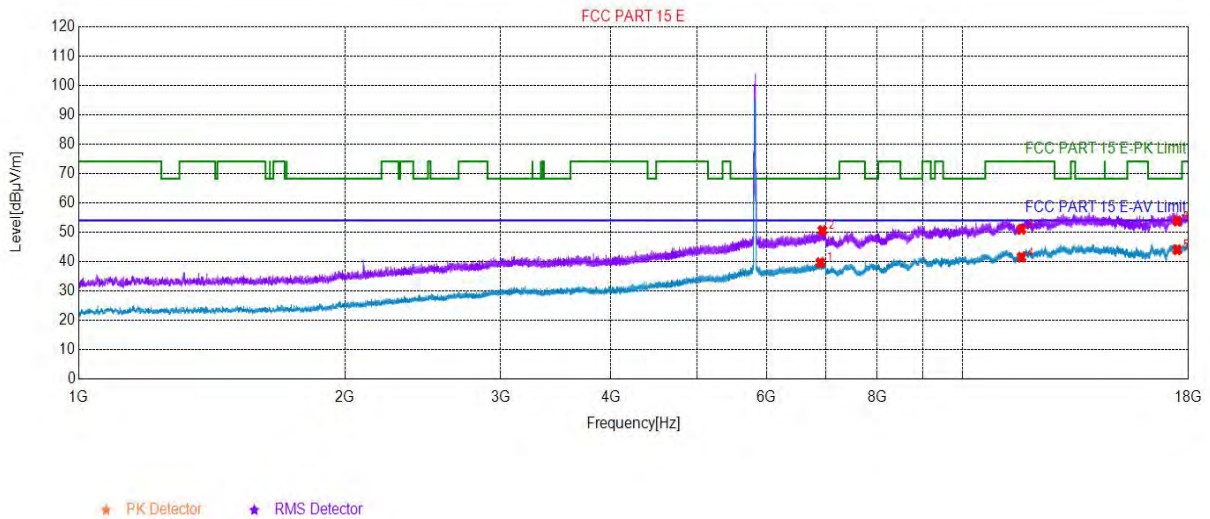


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**802.11N20\_Channel 165**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.09	39.62	21.55	54.00	14.38	215	215	Vertical
2	6935.79	50.56	21.45	68.20	17.64	226	222	Vertical
3	11650.0	50.96	0.03	74.00	23.04	238	275	Vertical
4	11650.0	41.51	0.03	54.00	12.49	274	122	Vertical
5	17475.0	43.97	1.66	54.00	10.03	156	283	Vertical
6	17475.0	53.77	1.66	68.20	14.43	197	336	Vertical

**Final Data List**



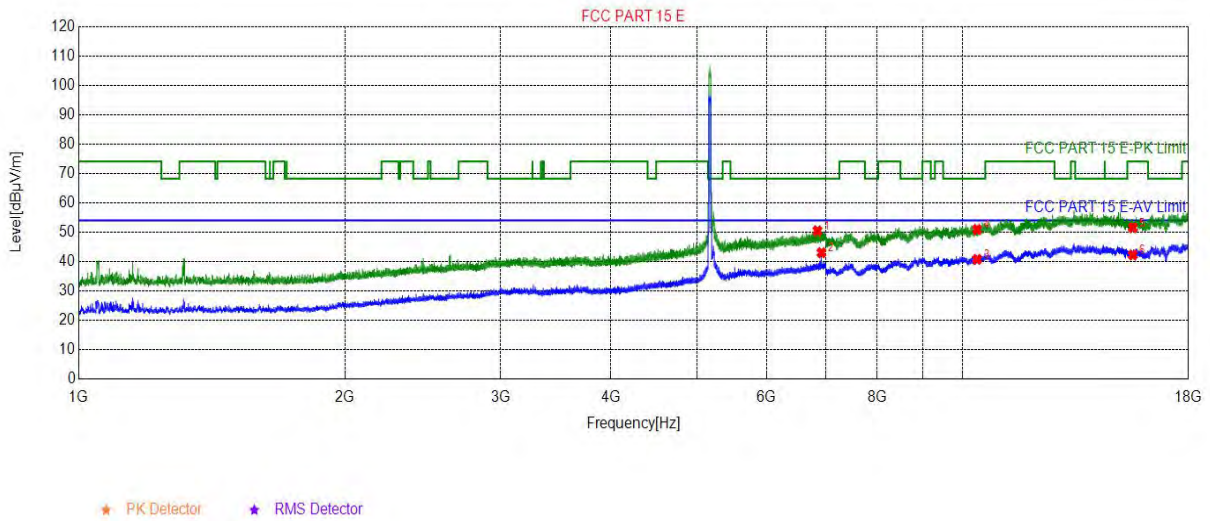
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**802.11N40\_Channel 38**

**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	50.44	21.37	68.20	17.76	177	290	Horizontal
2	6920.19	43.00	21.16	54.00	11.00	185	108	Horizontal
3	10380.0	40.73	-1.90	54.00	13.27	194	214	Horizontal
4	10380.0	50.89	-1.90	68.20	17.31	215	15	Horizontal
5	15570.0	51.50	1.90	74.00	22.50	236	321	Horizontal
6	15570.0	42.22	1.90	54.00	11.78	287	275	Horizontal

**Final Data List**

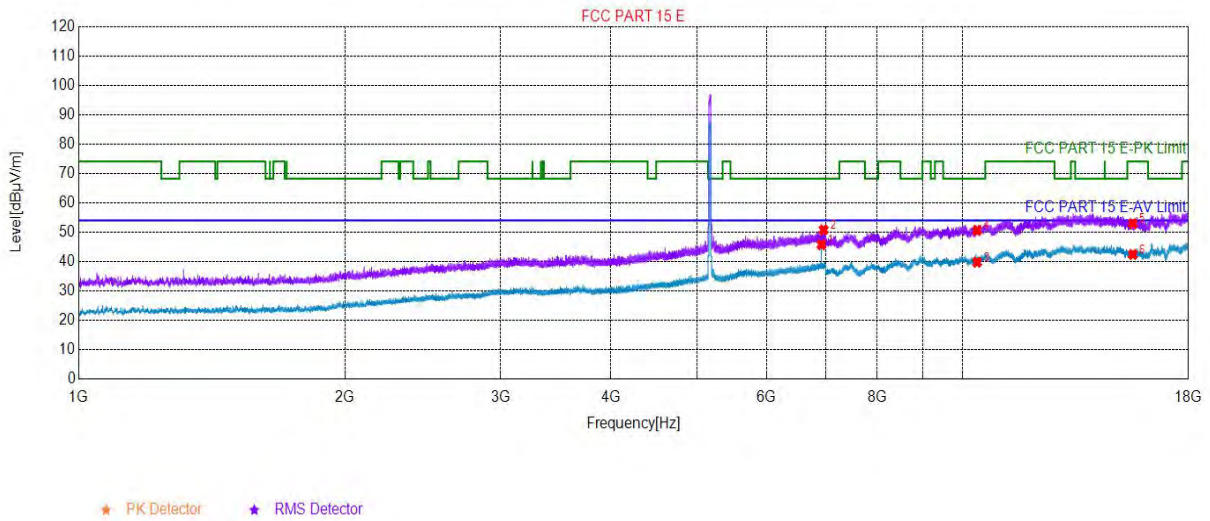


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**802.11N40\_Channel 38**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6920.49	45.72	21.17	54.00	8.28	187	358	Vertical
2	6958.59	50.75	21.10	68.20	17.45	165	290	Vertical
3	10380.0	39.77	-1.90	54.00	14.23	188	102	Vertical
4	10380.0	50.61	-1.90	68.20	17.59	197	314	Vertical
5	15570.0	52.93	1.90	74.00	21.07	214	336	Vertical
6	15570.0	42.40	1.90	54.00	11.60	206	186	Vertical

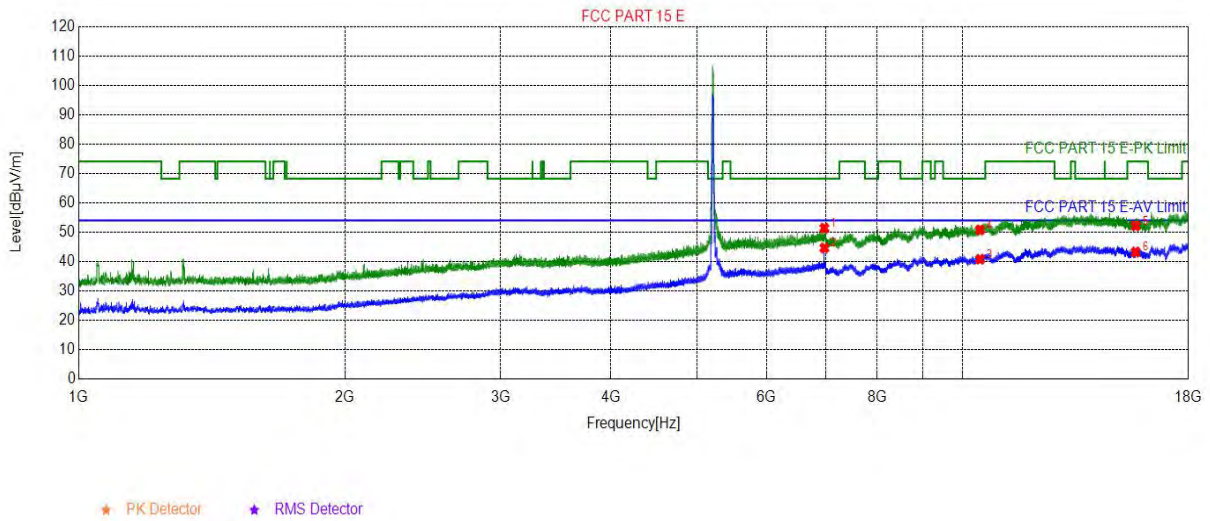
**Final Data List**



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**802.11N40\_Channel 46**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6973.29	51.34	21.25	68.20	16.86	214	176	Horizontal
2	6973.59	44.61	21.25	54.00	9.39	256	115	Horizontal
3	10460.0	40.79	-2.08	54.00	13.21	278	101	Horizontal
4	10460.0	50.78	-2.08	68.20	17.42	196	63	Horizontal
5	15690.0	52.12	1.31	74.00	21.88	163	116	Horizontal
6	15690.0	43.22	1.31	54.00	10.78	177	139	Horizontal

**Final Data List**

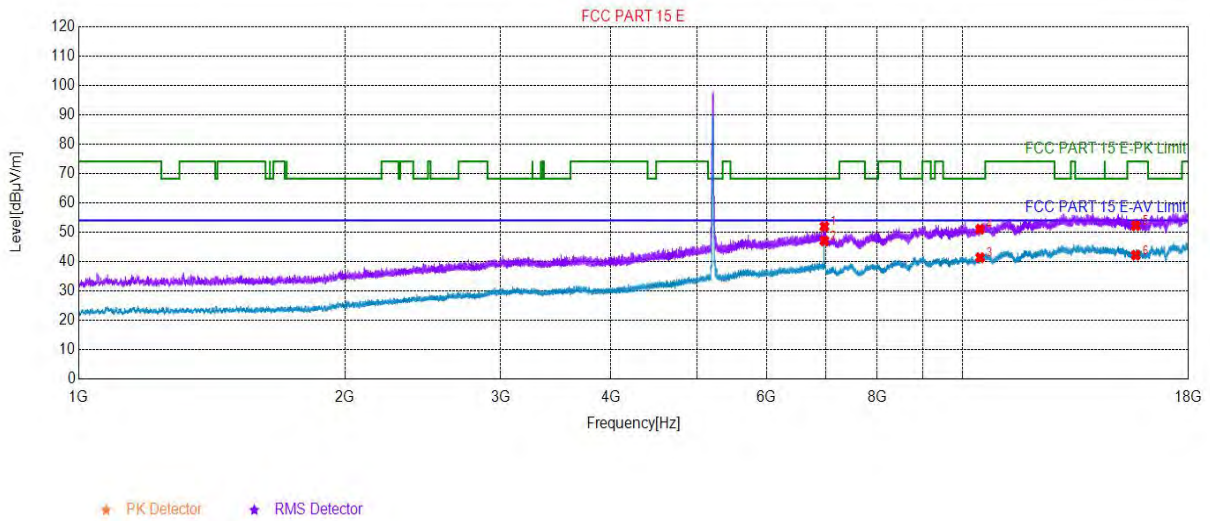


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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**802.11N40\_Channel 46**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6973.59	51.90	21.25	68.20	16.30	187	339	Vertical
2	6973.59	47.03	21.25	54.00	6.97	169	2	Vertical
3	10460.0	41.30	-2.08	54.00	12.70	215	57	Vertical
4	10460.0	51.03	-2.08	68.20	17.17	174	144	Vertical
5	15690.0	52.19	1.31	74.00	21.81	159	0	Vertical
6	15690.0	42.14	1.31	54.00	11.86	187	221	Vertical

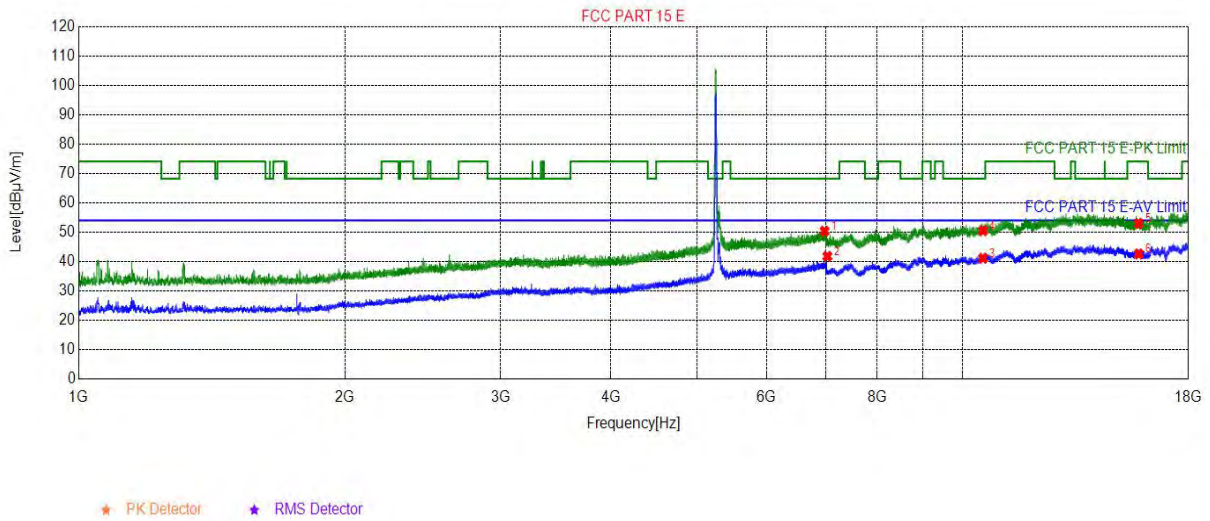
**Final Data List**



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**802.11N40\_Channel 54**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6978.69	50.31	21.36	68.20	17.89	215	222	Horizontal
2	7026.95	41.77	-8.72	54.00	12.23	178	138	Horizontal
3	10540.0	41.09	-2.05	54.00	12.91	195	222	Horizontal
4	10540.0	50.47	-2.05	68.20	17.73	215	298	Horizontal
5	15810.0	52.95	1.28	74.00	21.05	247	313	Horizontal
6	15810.0	42.55	1.28	54.00	11.45	263	62	Horizontal

**Final Data List**

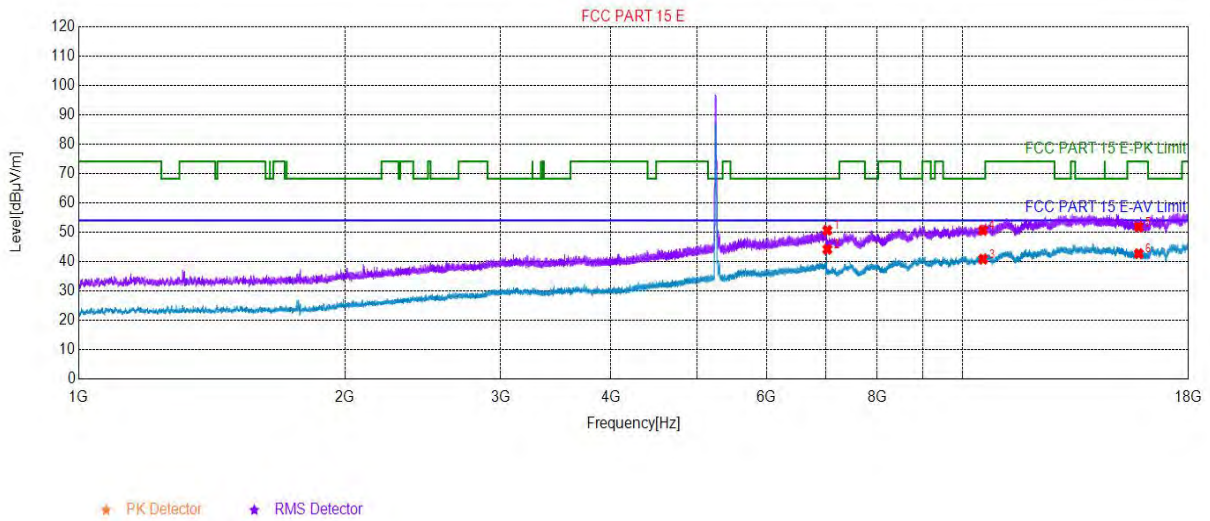


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**802.11N40\_Channel 54**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7026.40	50.60	-8.73	68.20	17.60	178	337	Vertical
2	7026.95	44.13	-8.72	54.00	9.87	195	352	Vertical
3	10540.0	40.81	-2.05	54.00	13.19	214	358	Vertical
4	10540.0	50.62	-2.05	68.20	17.58	255	230	Vertical
5	15810.0	51.76	1.28	74.00	22.24	236	299	Vertical
6	15810.0	42.65	1.28	54.00	11.35	189	48	Vertical

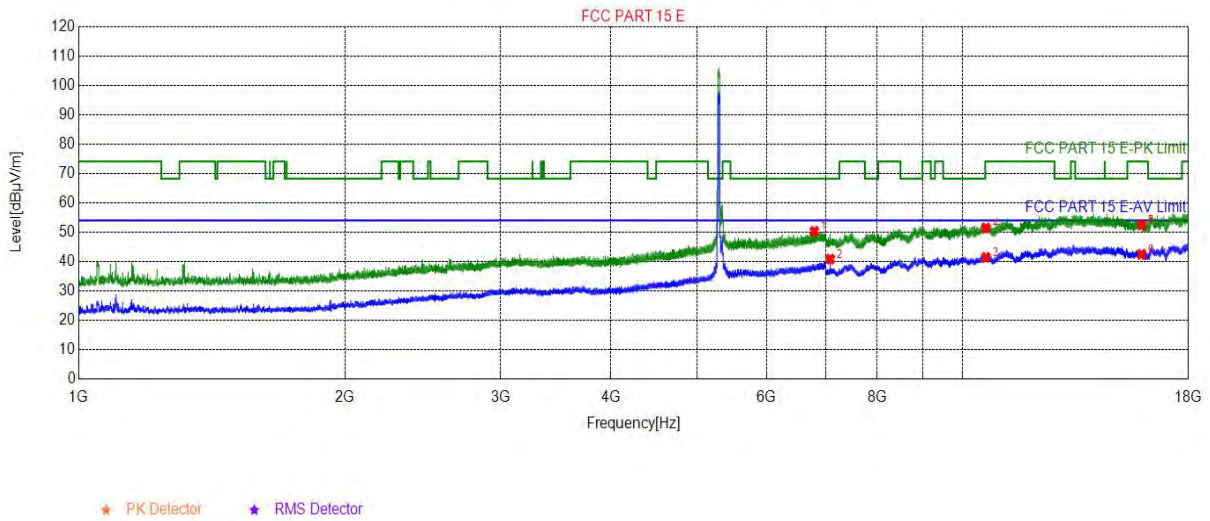
**Final Data List**



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**802.11N40\_Channel 62**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6792.68	50.28	21.11	68.20	17.92	156	282	Horizontal
2	7080.85	40.80	-8.24	54.00	13.20	277	108	Horizontal
3	10620.0	41.42	-1.75	54.00	12.58	159	176	Horizontal
4	10620.0	51.43	-1.75	74.00	22.57	174	230	Horizontal
5	15930.0	52.50	1.11	74.00	21.50	165	336	Horizontal
6	15930.0	42.44	1.11	54.00	11.56	199	352	Horizontal

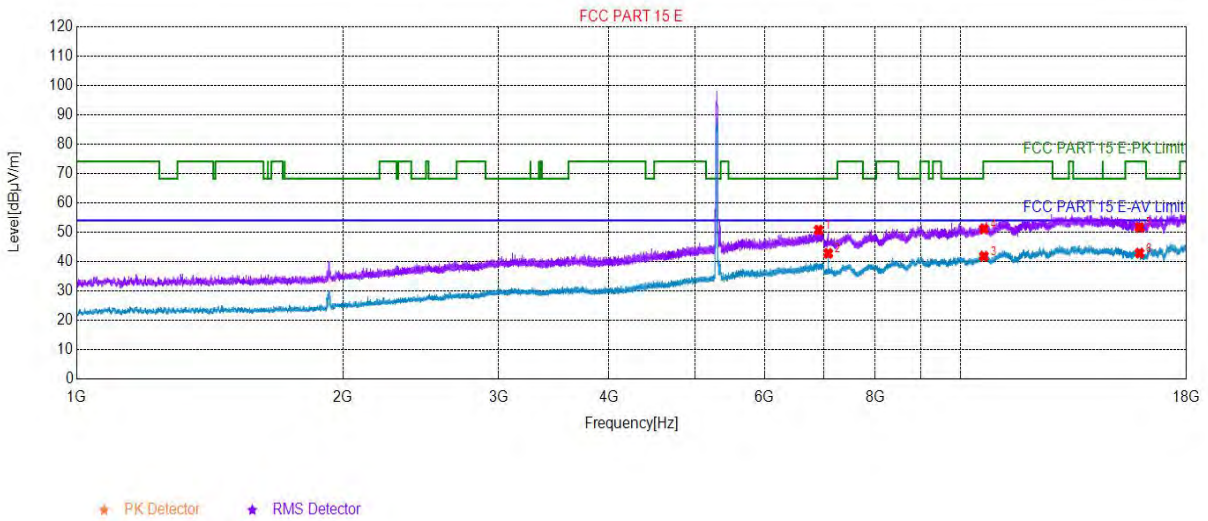
**Final Data List**



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**802.11N40\_Channel 62**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6904.29	50.69	21.39	68.20	17.51	177	344	Vertical
2	7080.30	42.76	-8.25	54.00	11.24	189	8	Vertical
3	10620.0	41.76	-1.75	54.00	12.24	165	244	Vertical
4	10620.0	51.10	-1.75	74.00	22.90	174	168	Vertical
5	15930.0	51.60	1.11	74.00	22.40	185	214	Vertical
6	15930.0	42.85	1.11	54.00	11.15	194	206	Vertical

**Final Data List**

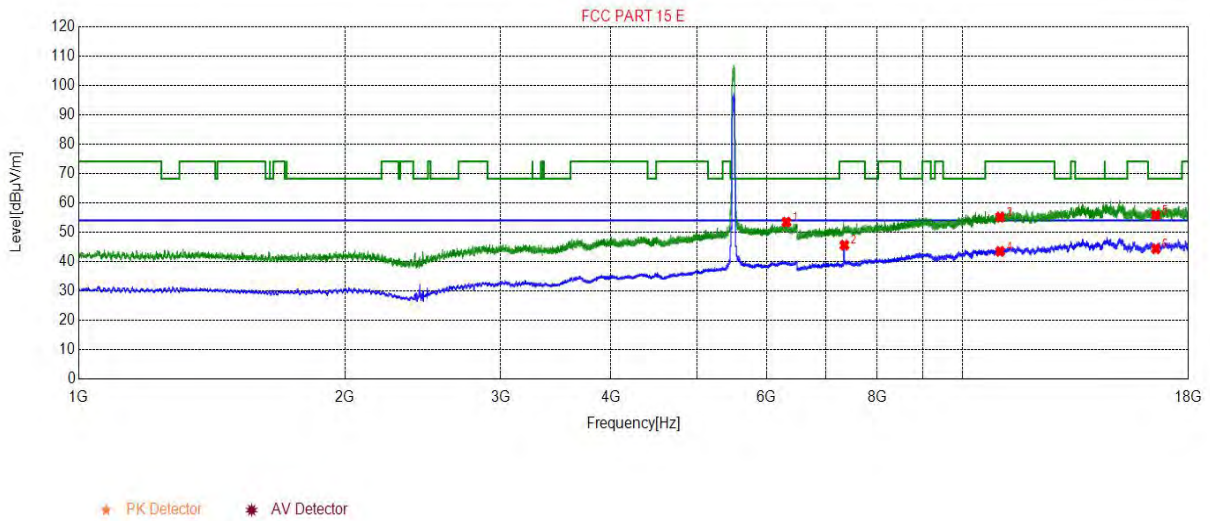


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### 802.11N40\_Channel 102

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6315.92	53.42	18.43	68.20	14.78	215	338	Horizontal
2	7346.89	45.56	-2.85	54.00	8.44	198	96	Horizontal
3	11020.0	55.13	2.69	74.00	18.87	174	20	Horizontal
4	11020.0	43.43	2.69	54.00	10.57	165	126	Horizontal
5	16530.0	55.75	5.27	68.20	12.45	205	270	Horizontal
6	16530.0	44.31	5.27	54.00	9.69	165	328	Horizontal

#### Final Data List



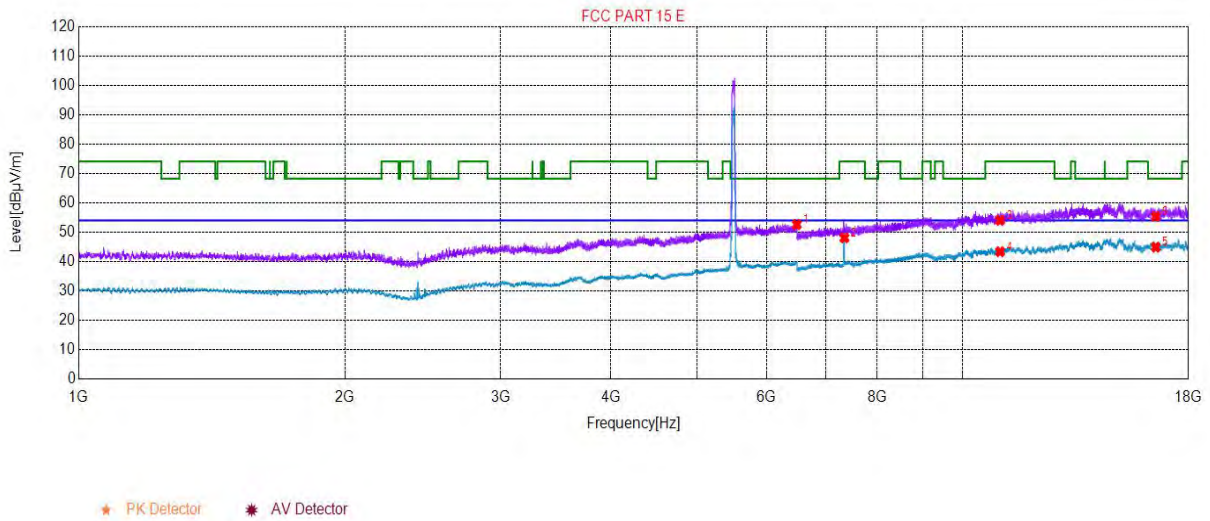
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**802.11N40\_Channel 102**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6489.36	52.57	18.66	68.20	15.63	263	249	Vertical
2	7346.89	48.04	-2.85	54.00	5.96	189	126	Vertical
3	11020.0	53.98	2.69	74.00	20.02	174	252	Vertical
4	11020.0	43.34	2.69	54.00	10.66	156	69	Vertical
5	16530.0	44.89	5.27	54.00	9.11	197	279	Vertical
6	16530.0	55.33	5.27	68.20	12.87	218	165	Vertical

**Final Data List**

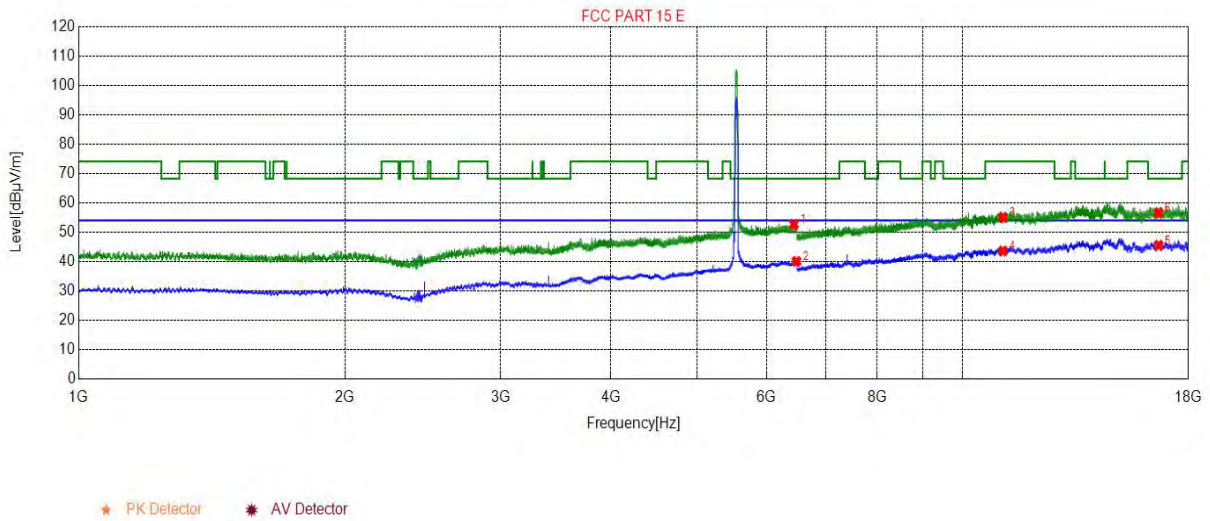


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**802.11N40\_Channel 110**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6440.59	52.66	18.39	68.20	15.54	216	137	Horizontal
2	6484.96	40.05	18.63	54.00	13.95	236	285	Horizontal
3	11100.0	55.07	2.49	74.00	18.93	189	213	Horizontal
4	11100.0	43.54	2.49	54.00	10.46	177	78	Horizontal
5	16650.0	45.52	5.74	54.00	8.48	165	328	Horizontal
6	16650.0	56.67	5.74	68.20	11.53	158	174	Horizontal

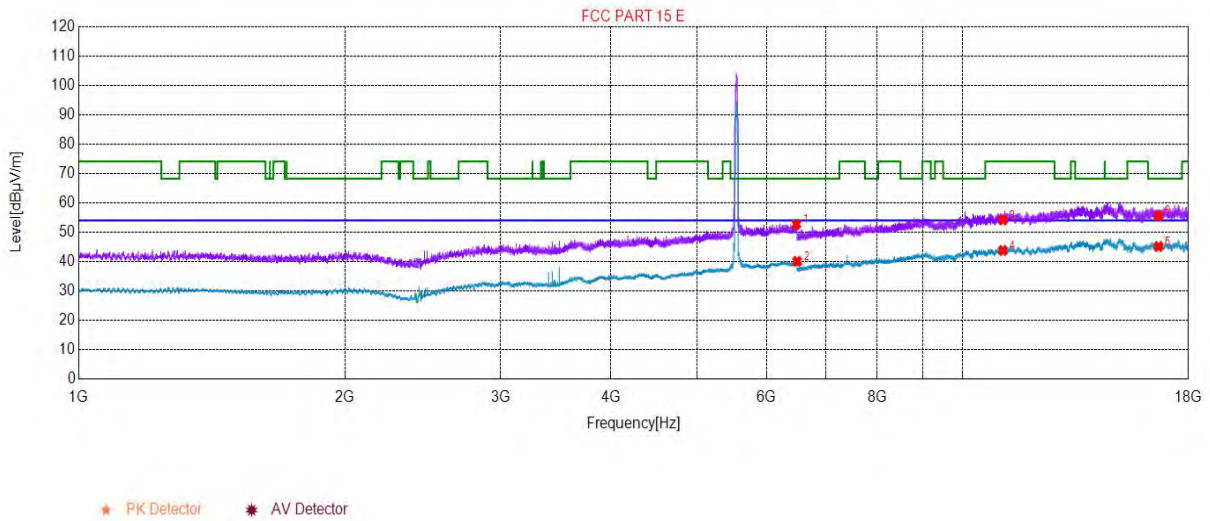
**Final Data List**



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**802.11N40\_Channel 110**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6483.13	52.69	18.62	68.20	15.51	213	256	Vertical
2	6495.59	40.05	18.69	54.00	13.95	205	208	Vertical
3	11100.0	54.17	2.49	74.00	19.83	216	280	Vertical
4	11100.0	43.75	2.49	54.00	10.25	248	40	Vertical
5	16650.0	45.10	5.74	54.00	8.90	285	21	Vertical
6	16650.0	55.58	5.74	68.20	12.62	269	174	Vertical

**Final Data List**

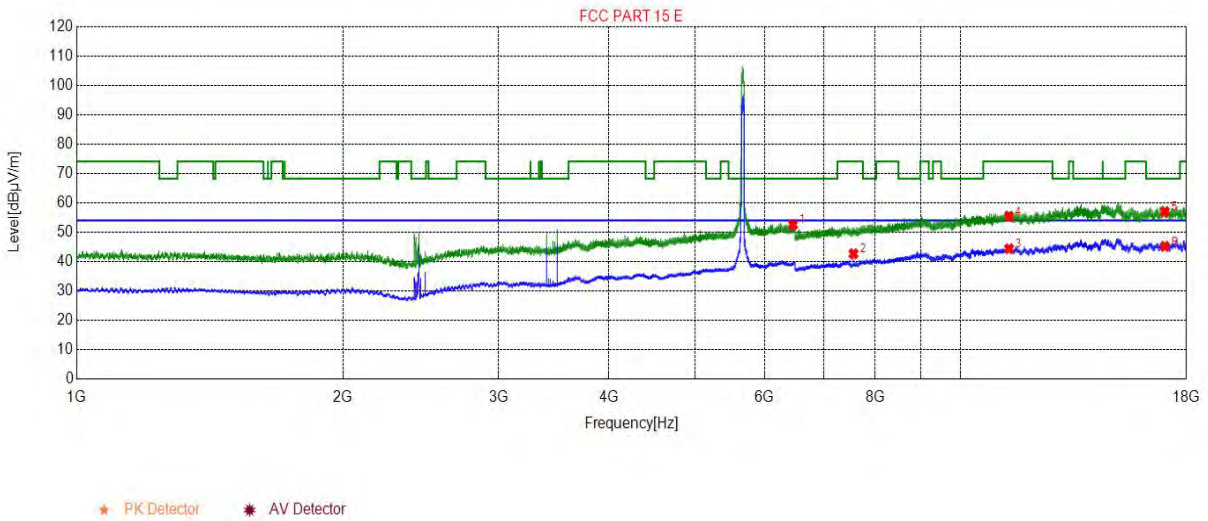


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**802.11N40\_Channel 134**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6461.13	52.52	18.50	68.20	15.68	200	339	Horizontal
2	7560.80	42.63	-2.70	54.00	11.37	300	146	Horizontal
3	11340.0	44.34	2.55	54.00	9.66	300	203	Horizontal
4	11340.0	55.40	2.55	74.00	18.60	300	194	Horizontal
5	17010.0	56.98	6.16	68.20	11.22	200	106	Horizontal
6	17010.0	45.16	6.16	54.00	8.84	200	77	Horizontal

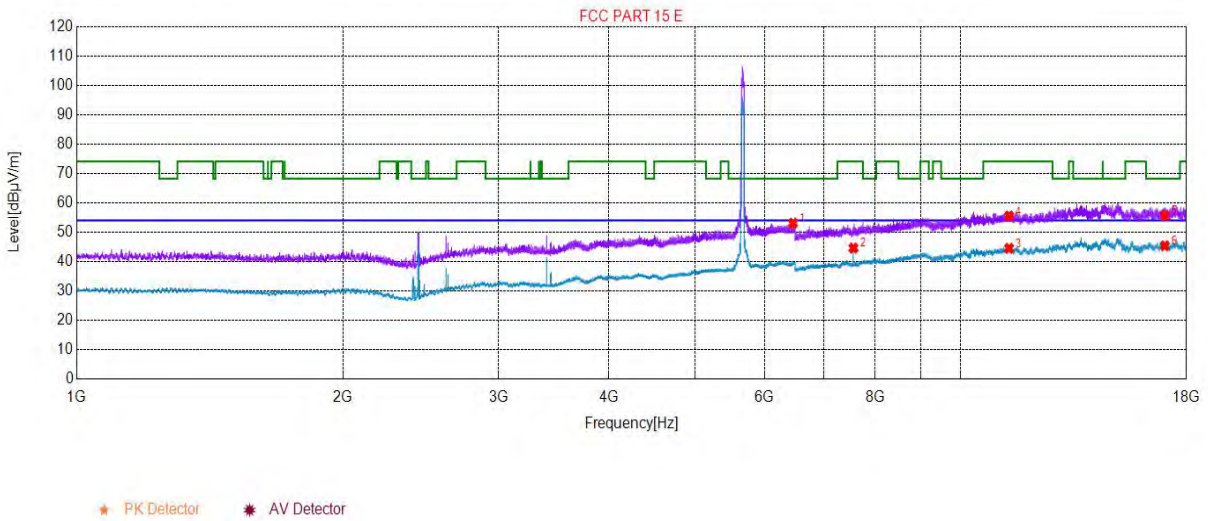
**Final Data List**



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**802.11N40\_Channel 134**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6459.66	53.03	18.49	68.20	15.17	200	43	Vertical
2	7560.34	44.57	-2.70	54.00	9.43	200	155	Vertical
3	11340.0	44.48	2.55	54.00	9.52	200	136	Vertical
4	11340.0	55.50	2.55	74.00	18.50	300	165	Vertical
5	17010.0	55.66	6.16	68.20	12.54	200	49	Vertical
6	17010.0	45.33	6.16	54.00	8.67	200	356	Vertical

**Final Data List**

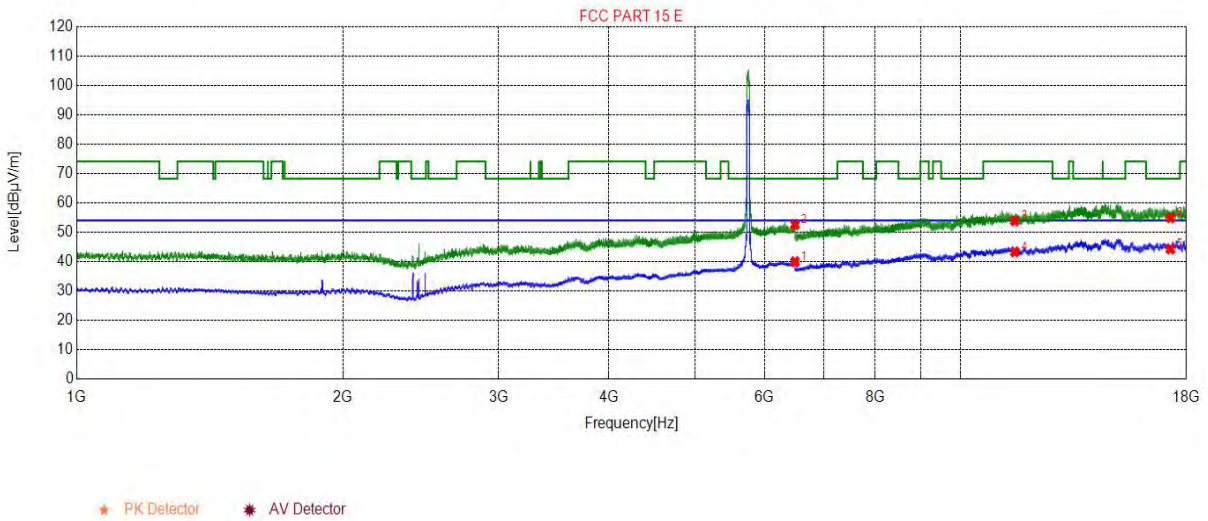


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**802.11N40\_Channel 151**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6493.03	39.93	18.68	54.00	14.07	212	294	Horizontal
2	6493.39	52.55	18.68	68.20	15.65	236	263	Horizontal
3	11510.0	53.85	2.17	74.00	20.15	258	360	Horizontal
4	11510.0	43.25	2.17	54.00	10.75	274	231	Horizontal
5	17265.0	44.23	6.33	54.00	9.77	269	12	Horizontal
6	17265.0	54.89	6.33	68.20	13.31	241	59	Horizontal

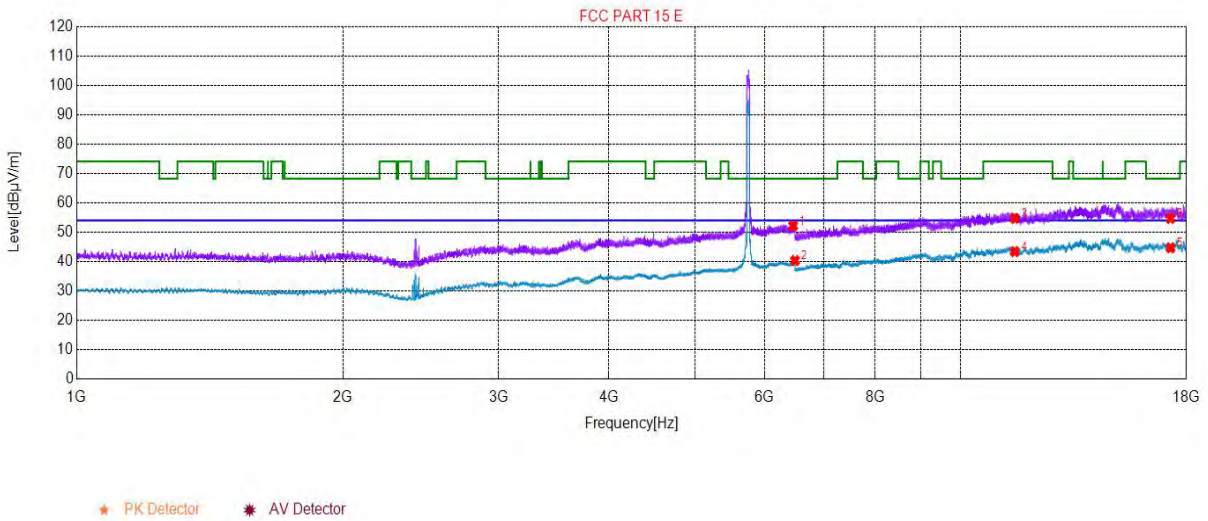
**Final Data List**



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**802.11N40\_Channel 151**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6461.49	52.15	18.50	68.20	16.05	236	222	Vertical
2	6493.76	40.31	18.68	54.00	13.69	223	153	Vertical
3	11510.0	54.68	2.17	74.00	19.32	287	308	Vertical
4	11510.0	43.37	2.17	54.00	10.63	241	78	Vertical
5	17265.0	44.65	6.33	54.00	9.35	256	97	Vertical
6	17265.0	54.67	6.33	68.20	13.53	269	116	Vertical

**Final Data List**

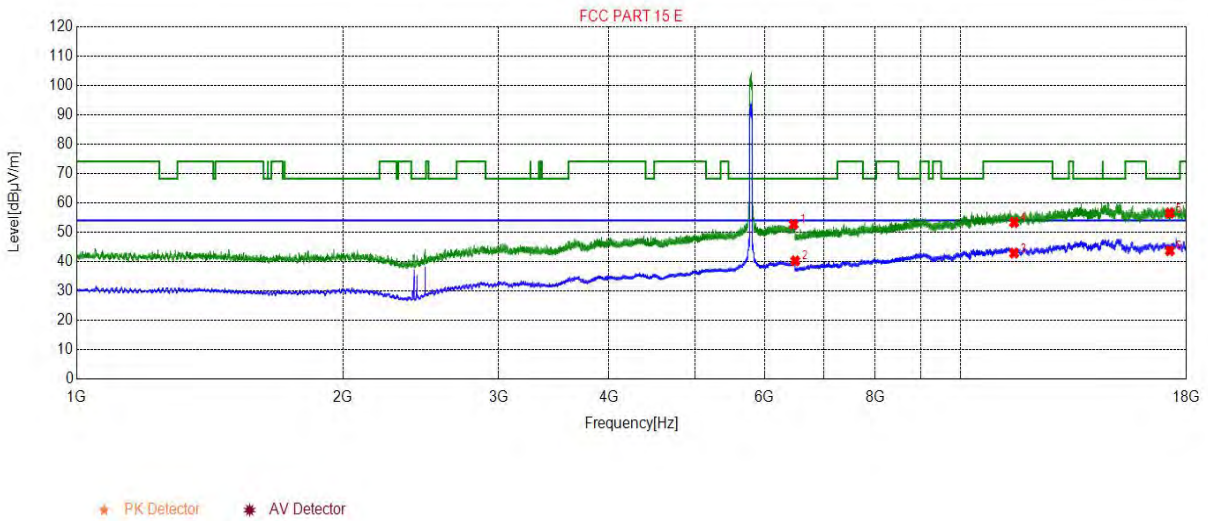


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**802.11N40\_Channel 159**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6471.03	52.65	18.55	68.20	15.55	215	0	Horizontal
2	6498.53	40.21	18.71	54.00	13.79	223	125	Horizontal
3	11490.0	42.85	2.10	54.00	11.15	278	345	Horizontal
4	11490.0	53.27	2.10	74.00	20.73	249	252	Horizontal
5	17235.0	56.48	6.10	68.20	11.72	206	145	Horizontal
6	17235.0	43.66	6.10	54.00	10.34	228	50	Horizontal

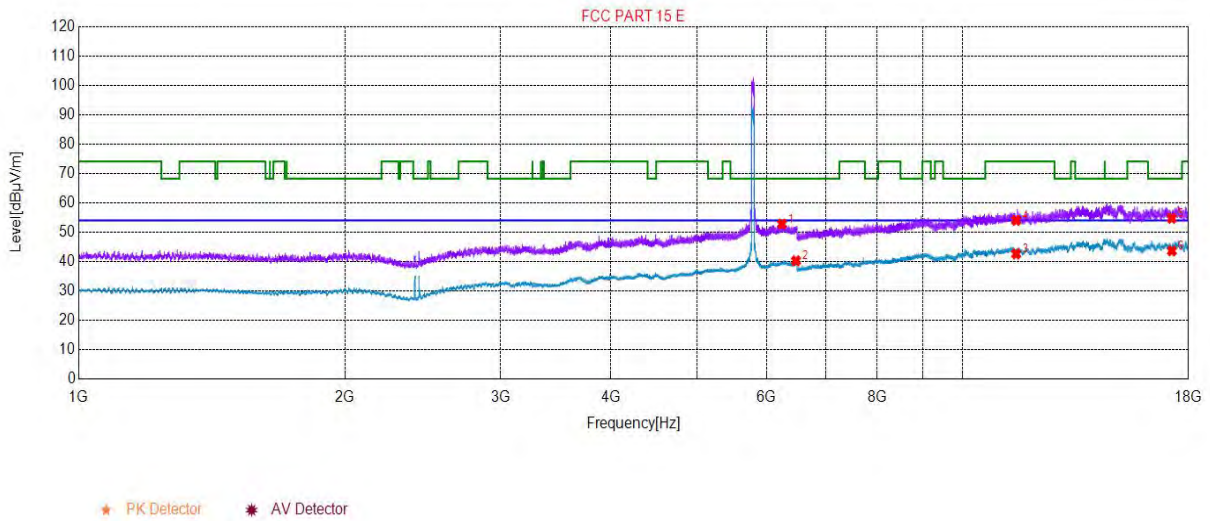
**Final Data List**



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**802.11N40\_Channel 159**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6243.31	52.76	18.21	68.20	15.44	213	316	Vertical
2	6475.43	40.24	18.58	54.00	13.76	224	43	Vertical
3	11490.0	42.58	2.10	54.00	11.42	169	30	Vertical
4	11490.0	53.98	2.10	74.00	20.02	189	212	Vertical
5	17235.0	54.70	6.10	68.20	13.50	174	299	Vertical
6	17235.0	43.63	6.10	54.00	10.37	256	347	Vertical

**Final Data List**



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