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Report No.: SZEM110800337201

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FCC REPORT

Application No: SZEM1108003372RF
Applicant: HOLUX Technology, Inc.
Product Name: All Sports GPS
Operation Frequency: 2412MHz to 2462MHz
FCC ID: RJI-GM138XX
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2010
Date of Receipt: 2011-09-07
Date of Test: 2011-09-14 to 2011-09-27
Date of Issue: 2011-10-27

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

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remark: Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.

4 General Information

4.1 Client Information

Applicant:	HOLUX Technology, Inc.
Address of Applicant:	No.1-1, Innovation Road I, Science-Based Industrial Park, Hsinchu 300, Taiwan.
Manufacturer/ Factory:	SHENZHEN MAXMADE TECHNOLOGY CO., LTD.
Address of Manufacturer/ Factory:	Building 3, No.5 Fuqiao Industrial Estate, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, P.R.China

4.2 General Description of E.U.T.

Product Name:	All Sports GPS
Model No.:	GM-138
Trade mark:	Holux
Operation Frequency:	2412MHz~2462MHz
Channel numbers:	11
Channel separation:	5MHz
Modulation type: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation type: (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Antenna Type:	Integral
Antenna gain:	0dBi
AC adapter:	Model:ADS-5A-06 05005GPCU INPUT:100-240V~50/60Hz Max.0.3A OUTPUT:5.0V \equiv 1.0A
EUT power supply:	Li-ion Battery 3.7V 1050mAh 3.9Wh

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



Note:

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

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2442MHz
The Highest channel	2462MHz

4.3 Test environment and mode

Test Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1004 mbar
Test mode:	
WI-FI mode:	The EUT wireless linked to TP-link router, switching packets.
AC charge+ Wi-Fi mode:	The EUT wireless linked to TP-link router, switching packets. And AC charge to the EUT.
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s).

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We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-Test Mode:								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	16.98	16.56	16.02	15.83				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	17.34	17.08	16.72	16.47	16.25	15.90	15.52	15.18
Final Test Mode:								
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”								
Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g.								

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
PC	DELL	OPTIPLEX 755
LCD-displaying	DELL	E1909WF
KEYBOARD	DELL	SK-8115
MOUSE	DELL	MOC5110
PC	DELL	OPTIDLEX 330
LCD-displaying	DELL	SP2208WFPT
KEYBOARD	DELL	SK-8115
MOUSE	DELL	MOC5110
Coder	HengTong ELECTRON	HT4000
Printer	Canon	BJC-1000SP

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4.5 Test Facility

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

- **CNAS (No. CNAS L2929)**
CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.
- **VCCI**
The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.
Date of Registration: September 29, 2008. Valid until September 28, 2011.
- **FCC – Registration No.: 556682**
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, March 16, 2011
- **Industry Canada (IC)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.6 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.7 Other Information Requested by the Customer

None.

4.8 Test Instruments list

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2012-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2012-05-26
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2012-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2011-11-09
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2011-11-09
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2011-11-09
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2012-05-26
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2011-10-27
11	Band filter	Amindeon	82346	SEL0094	2012-05-26

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2012-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2011-10-26
3	Two-Line V-Network	ETS-LINDGREN	3816/2	SEL0021	2012-05-26
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2012-05-26
5	Coaxial Cable	SGS	N/A	SEL0024	2012-05-29

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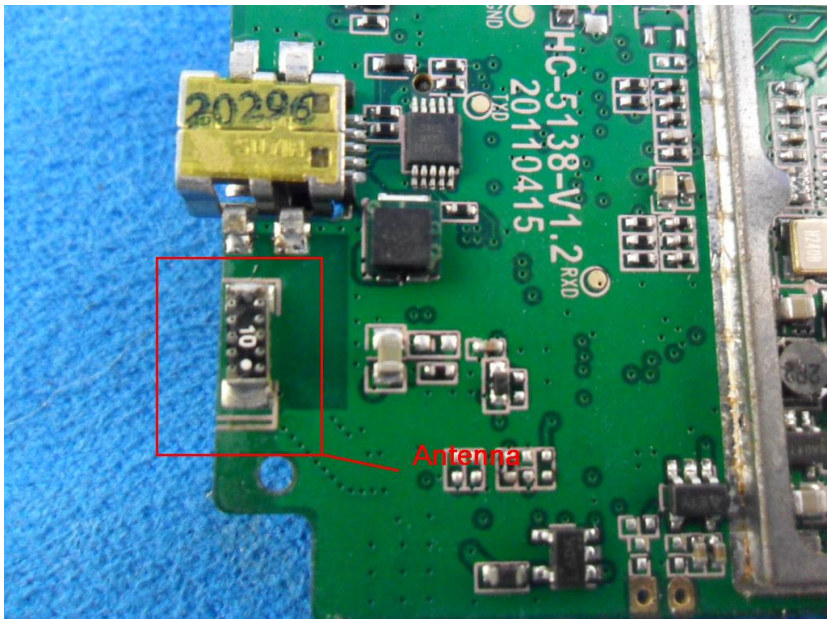
RF conducted					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2011-10-27
2	Coaxial cable	SGS	N/A	SEL0028	2012-05-29

General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2011-11-04
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-03-10
3	Barometer	ChangChun	DYM3	SEL0088	2012-05-18

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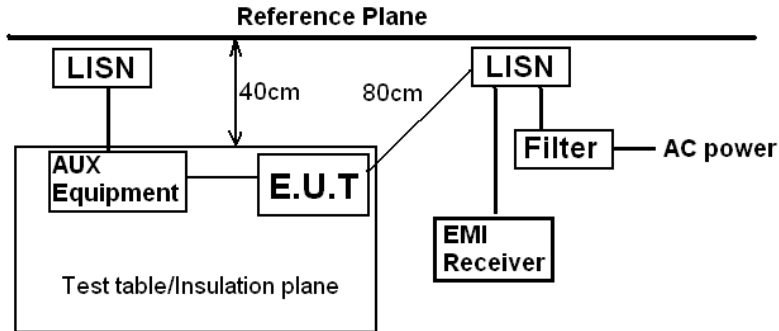
5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement: <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
E.U.T Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best gain of the antenna is 0dBi.</p>	
	



5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10: 2009														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	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
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													
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. 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: 2009 on conducted measurement.														
Test setup:	 <p><i>Remark</i> <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>														
Test Instruments:	Refer to section 4.8 for details														
Test mode:	AC charge+ Wi-Fi mode:														
Test results:	Pass														

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.

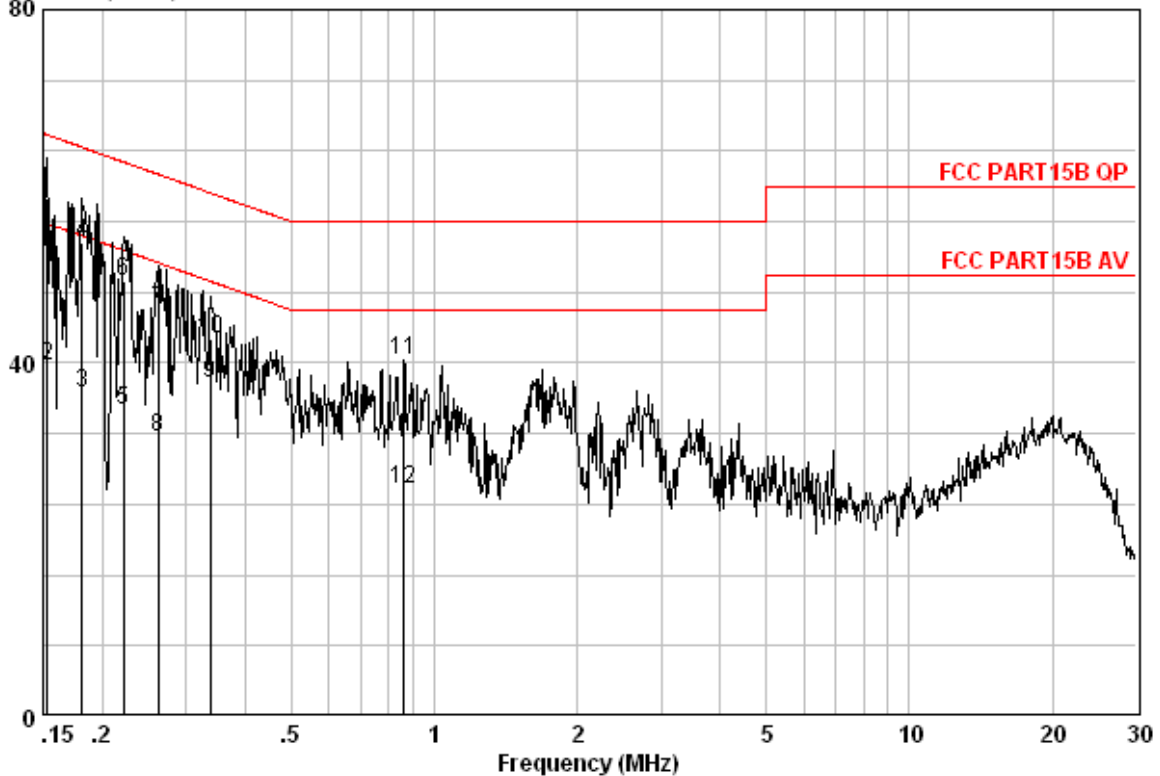
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Live Line:

Data: 28

Level (dBuV)



	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15300	0.04	9.60	49.00	58.64	65.84	-7.20	QP
2	0.15300	0.04	9.60	30.00	39.64	55.84	-16.20	Average
3	0.18152	0.04	9.60	27.00	36.64	54.42	-17.78	Average
4	0.18152	0.04	9.60	44.05	53.69	64.42	-10.72	QP
5	0.22201	0.04	9.60	25.00	34.64	52.74	-18.10	Average
6	0.22201	0.04	9.60	39.65	49.29	62.74	-13.45	QP
7	0.26164	0.05	9.60	36.44	46.09	61.38	-15.29	QP
8	0.26164	0.05	9.60	22.00	31.65	51.38	-19.73	Average
9	0.33740	0.05	9.60	28.00	37.65	49.27	-11.61	Average
10	0.33740	0.05	9.60	32.97	42.62	59.27	-16.65	QP
11	0.86185	0.07	9.70	30.49	40.26	56.00	-15.74	QP
12	0.86185	0.07	9.70	16.00	25.77	46.00	-20.23	Average

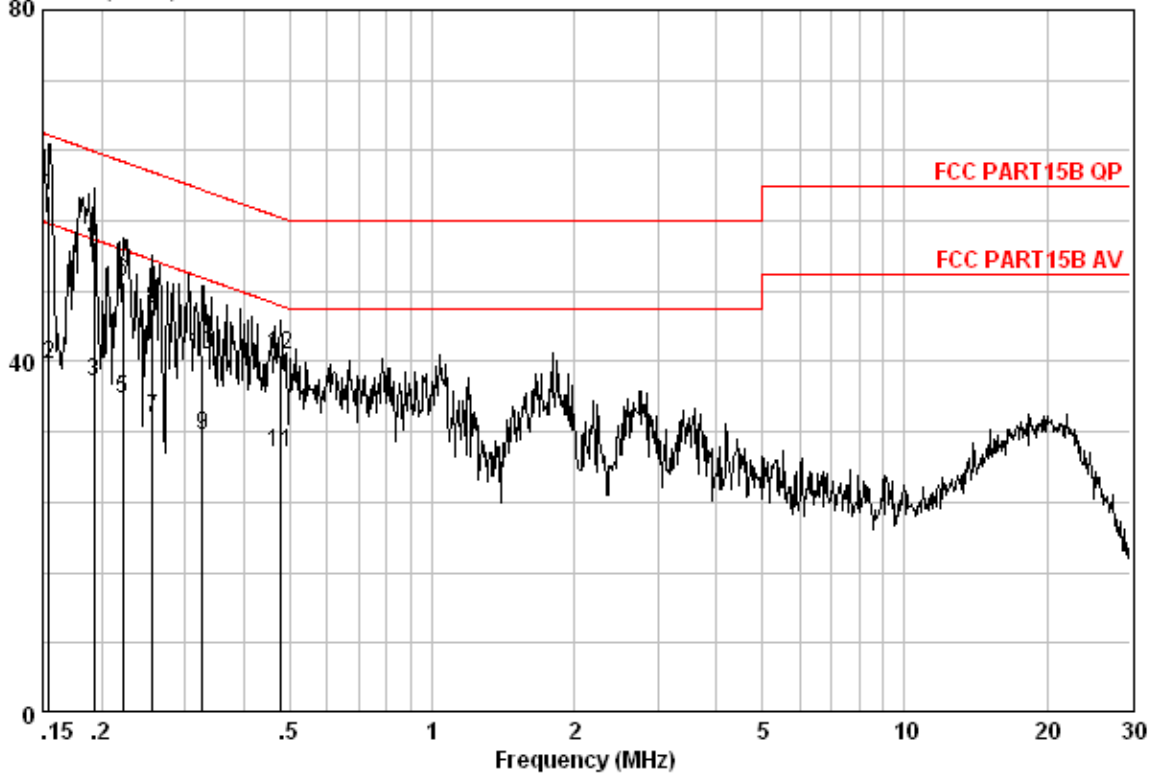
Notes:

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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Neutral Line:

Data: 27
Level (dBuV)



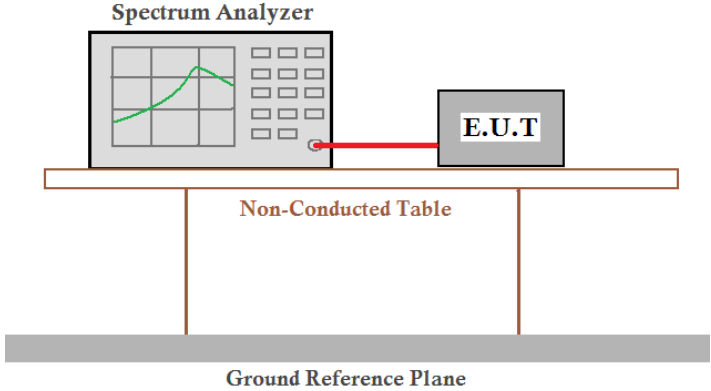
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15485	0.04	9.60	49.19	58.83	-6.91	QP
2	0.15485	0.04	9.60	30.00	39.64	-16.10	Average
3	0.19242	0.04	9.60	28.00	37.64	-16.29	Average
4	0.19242	0.04	9.60	44.03	53.67	-10.26	QP
5	0.22201	0.04	9.60	26.00	35.64	-17.10	Average
6	0.22201	0.04	9.60	39.38	49.02	-13.72	QP
7	0.25615	0.05	9.60	24.00	33.65	-17.91	Average
8	0.25615	0.05	9.60	36.41	46.06	-15.50	QP
9	0.32685	0.05	9.60	22.00	31.65	-17.88	Average
10	0.32685	0.05	9.60	31.06	40.71	-18.82	QP
11	0.47612	0.06	9.60	20.00	29.66	-16.75	Average
12	0.47612	0.06	9.60	31.10	40.76	-15.65	QP

Notes:

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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5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2009
Limit:	30dBm
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.8 for details
Test results:	Pass

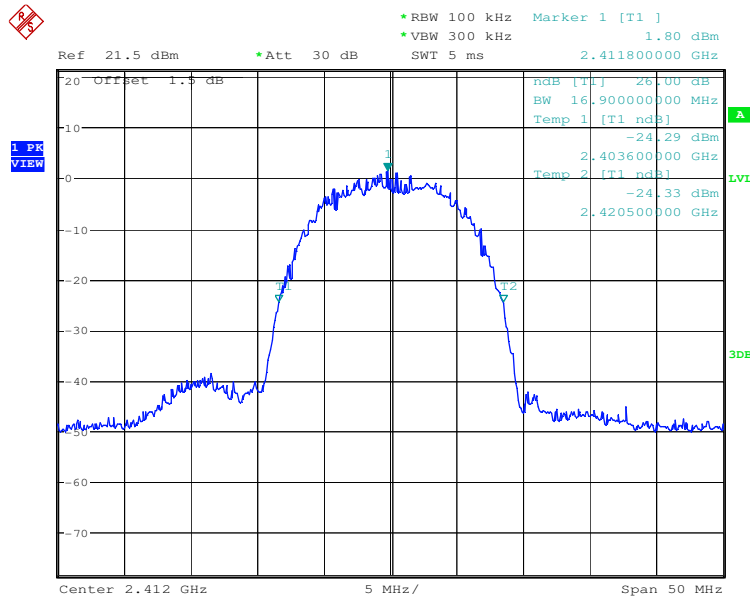
Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	16.98	30.00	Pass
Middle	16.69	30.00	Pass
Highest	16.72	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	17.34	30.00	Pass
Middle	16.76	30.00	Pass
Highest	16.46	30.00	Pass

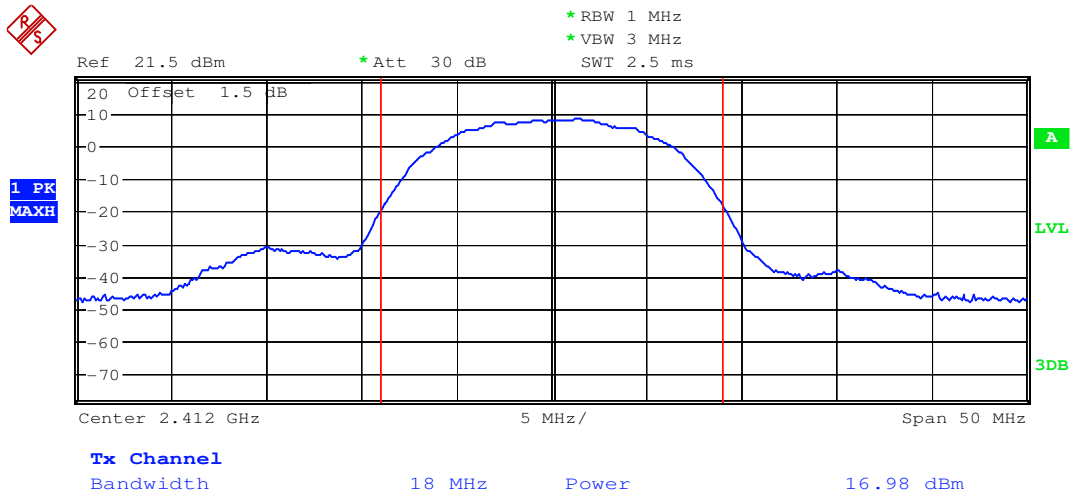


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest	-26dB
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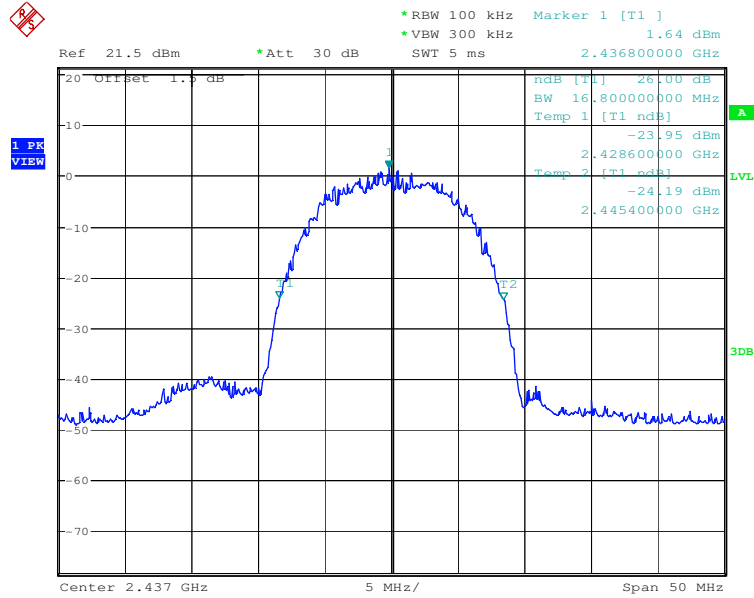
Test mode:	802.11b	Test channel:	Lowest
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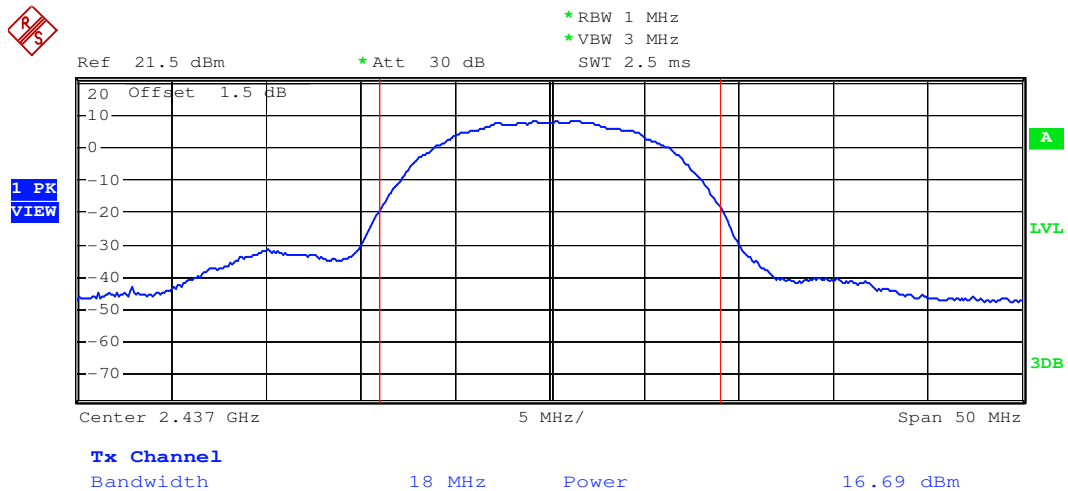
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Test mode:	802.11b	Test channel:	Middle	-26dB
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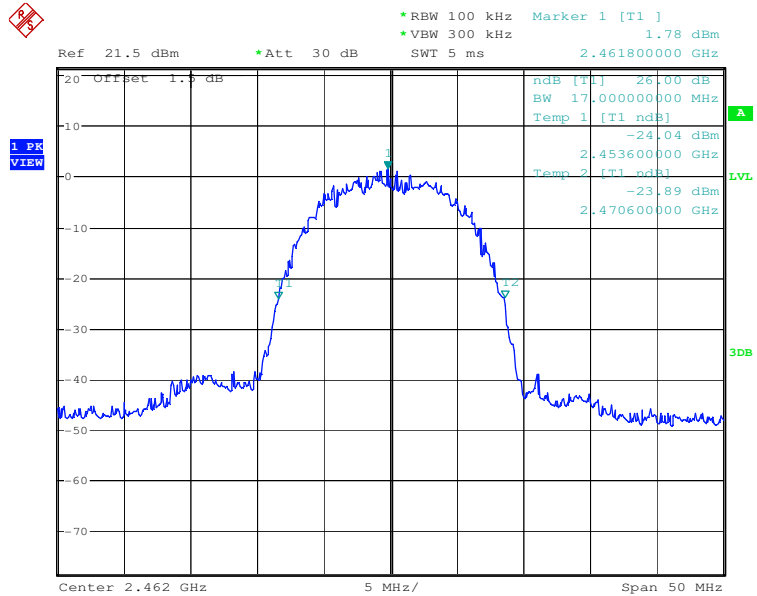
Test mode:	802.11b	Test channel:	Middle
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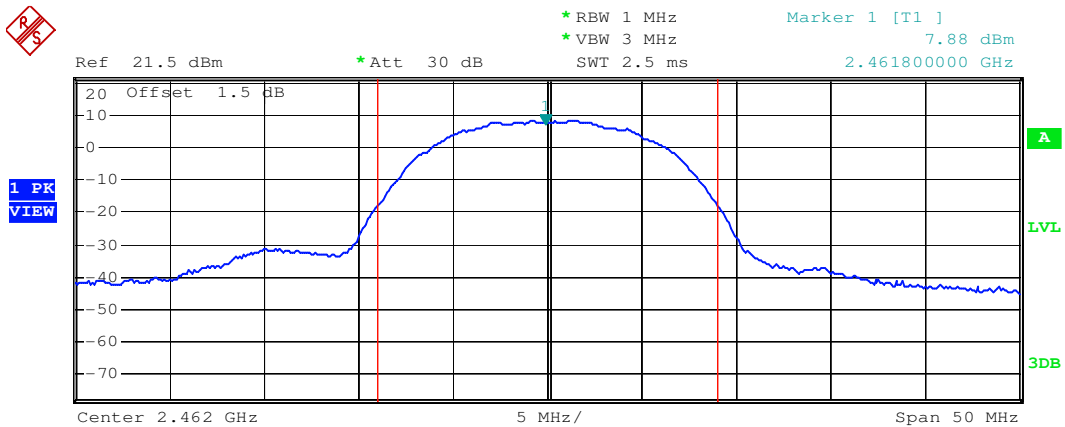
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Test mode:	802.11b	Test channel:	Highest	-26dB
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Test mode:	802.11b	Test channel:	Highest
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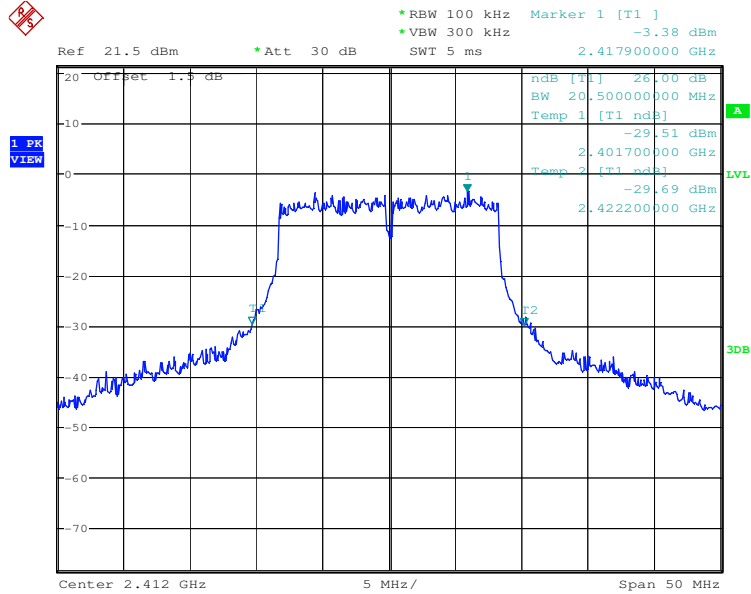


Tx Channel
 Bandwidth 18 MHz Power 16.72 dBm

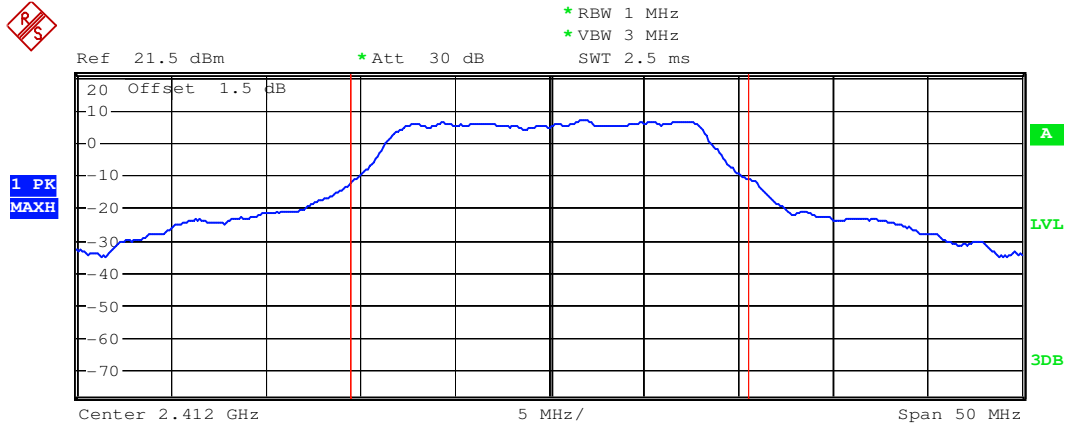
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Test mode:	802.11g	Test channel:	Lowest	-26dB
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Test mode:	802.11g	Test channel:	Lowest
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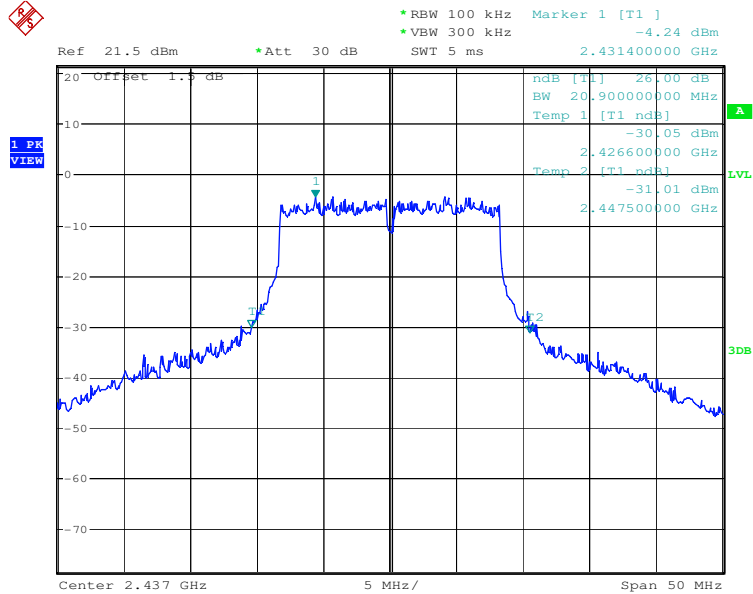


Tx Channel
 Bandwidth 21 MHz Power 17.34 dBm

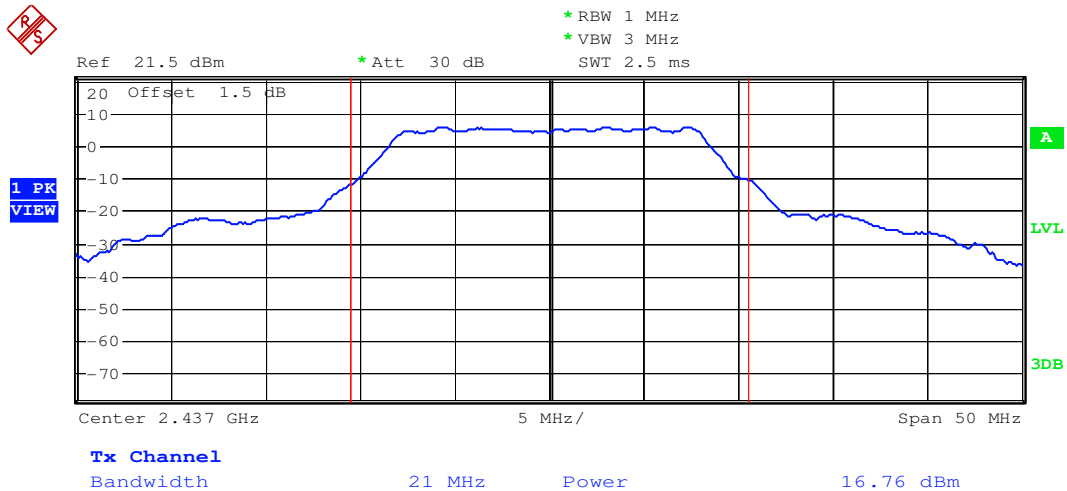
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Test mode:	802.11g	Test channel:	Middle	-26dB
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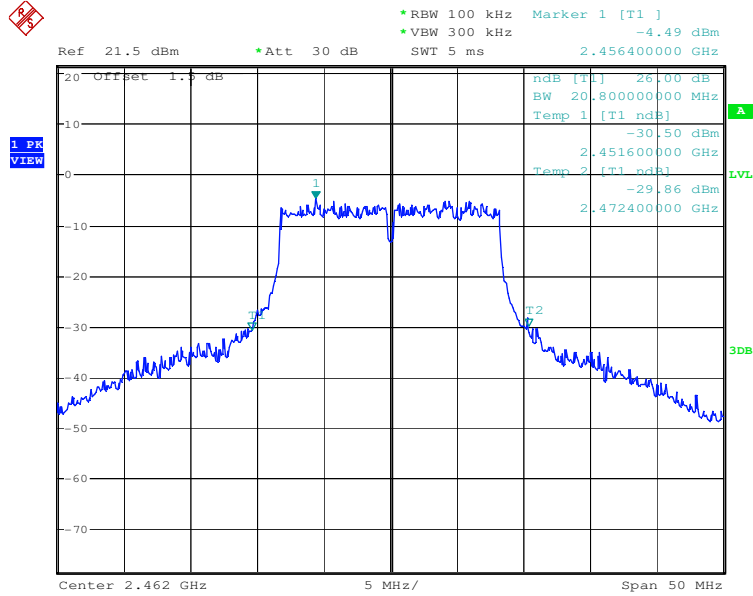
Test mode:	802.11g	Test channel:	Middle
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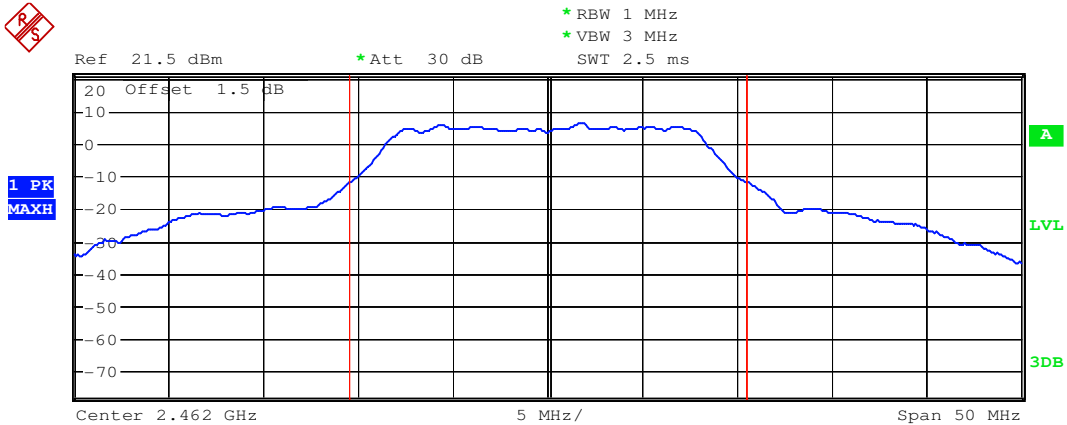
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Test mode:	802.11g	Test channel:	Highest	-26dB
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Test mode:	802.11g	Test channel:	Highest
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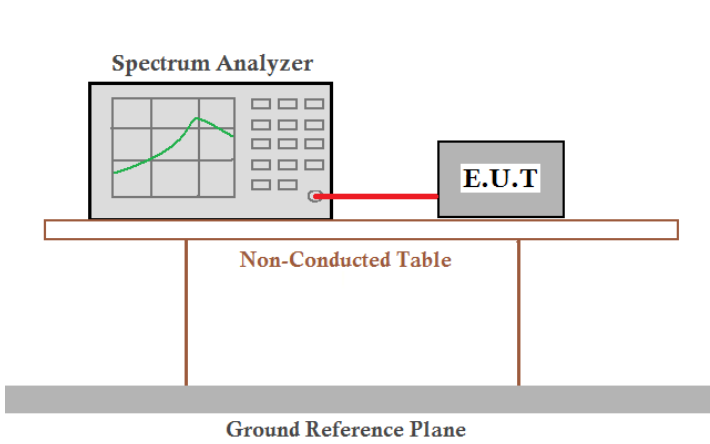


Tx Channel
Bandwidth 21 MHz Power 16.46 dBm



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5.4 6dB Occupy Bandwidth

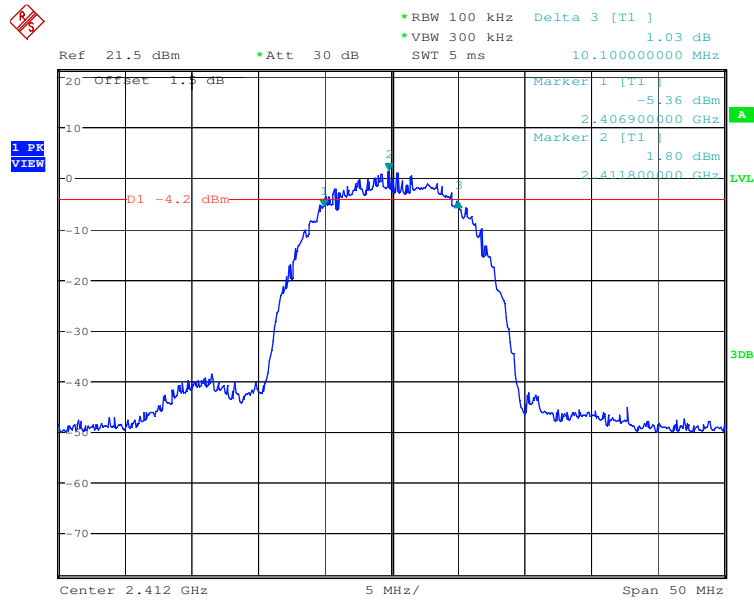
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2009
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.8 for details
Test results:	Pass

Measurement Data

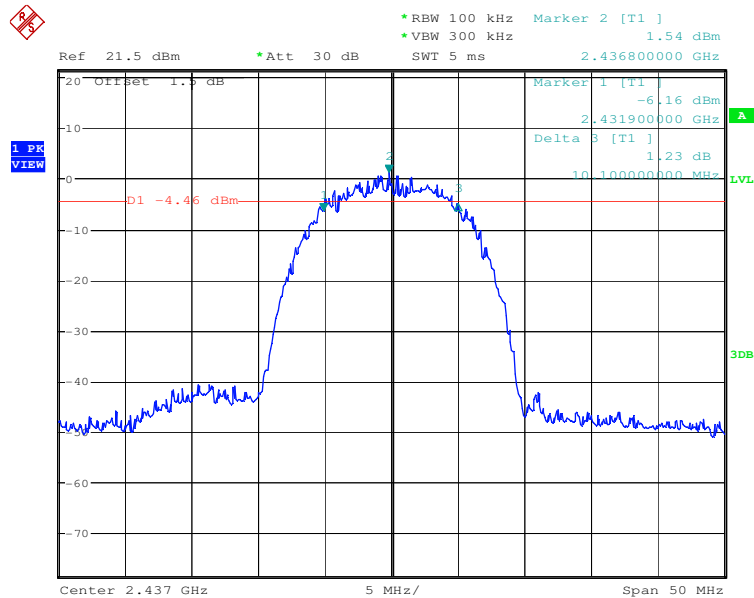
802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	10.1	>500	Pass
Middle	10.1	>500	Pass
Highest	10.1	>500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	16.8	>500	Pass
Middle	16.7	>500	Pass
Highest	16.8	>500	Pass

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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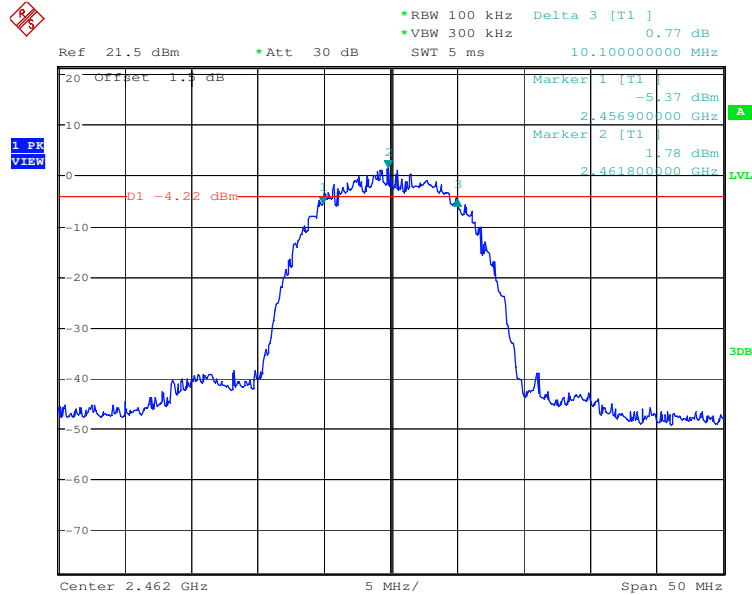
Test mode:	802.11b	Test channel:	Middle
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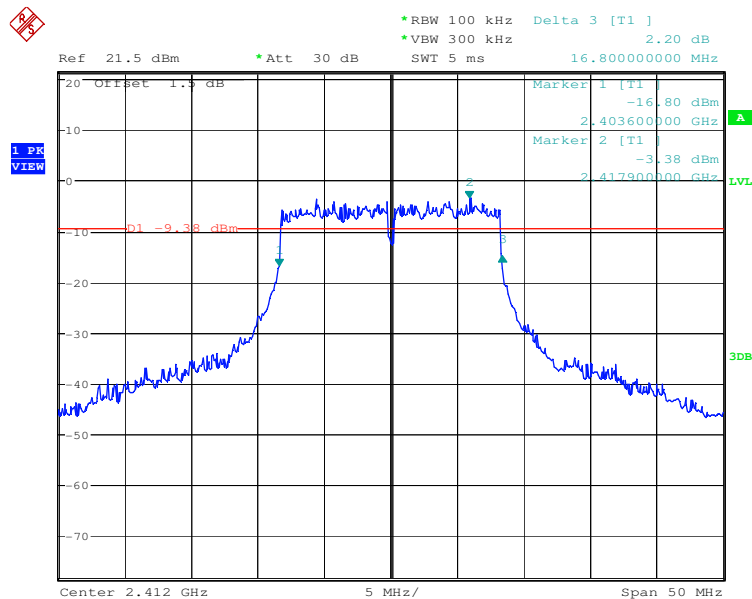
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Test mode:	802.11b	Test channel:	Highest
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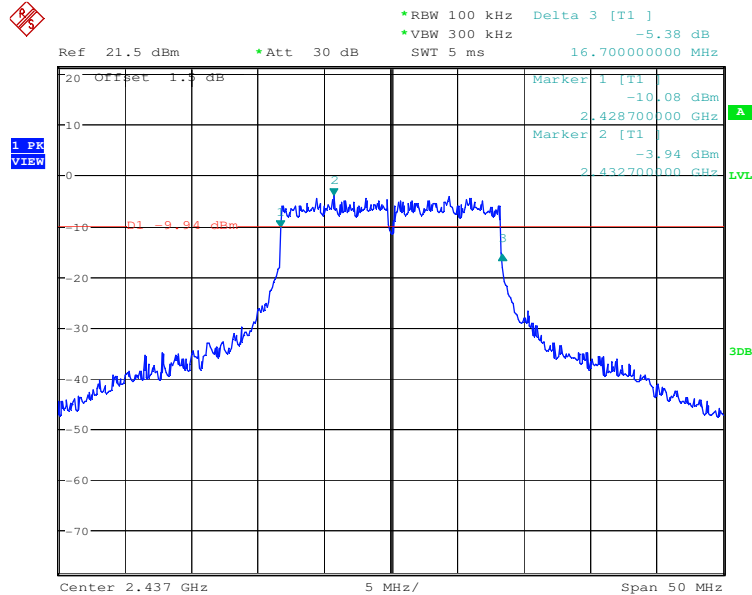
Test mode:	802.11g	Test channel:	Lowest
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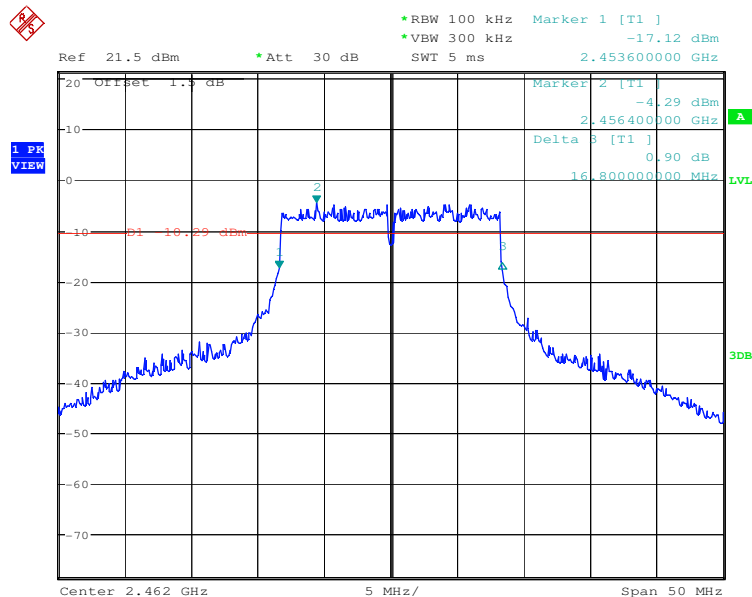
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Test mode:	802.11g	Test channel:	Middle
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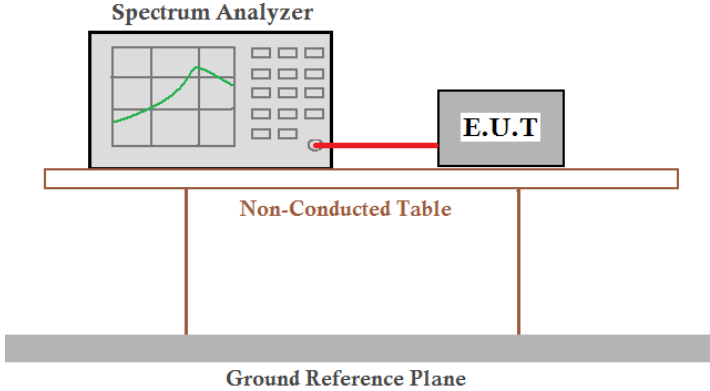


Test mode:	802.11g	Test channel:	Highest
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5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2009
Limit:	<8dBm
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.8 for details
Test results:	Pass

Measurement Data

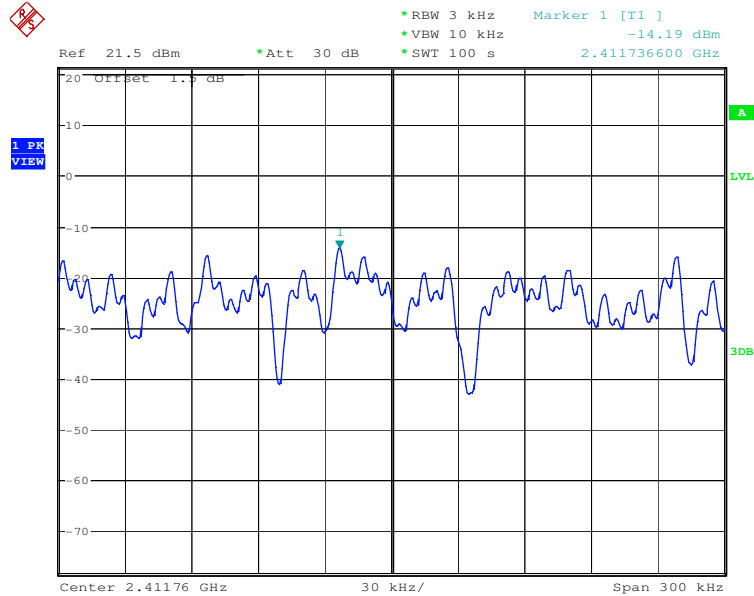
802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-14.19	<8.00	Pass
Middle	-14.41	<8.00	Pass
Highest	-14.37	<8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-18.37	<8.00	Pass
Middle	-19.85	<8.00	Pass
Highest	-20.08	<8.00	Pass

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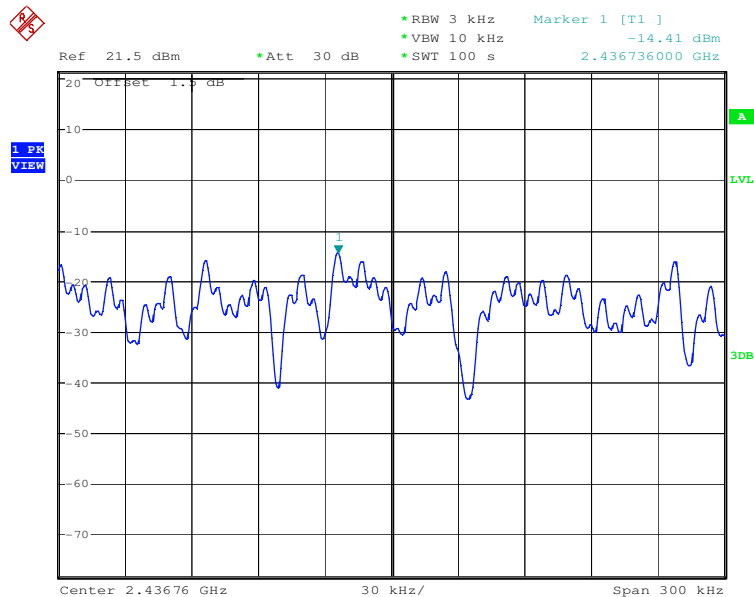


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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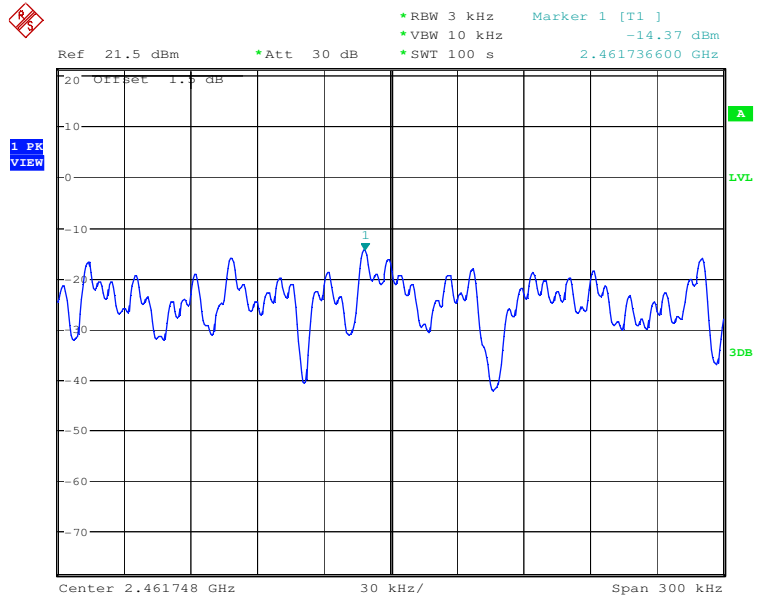
Test mode:	802.11b	Test channel:	Middle
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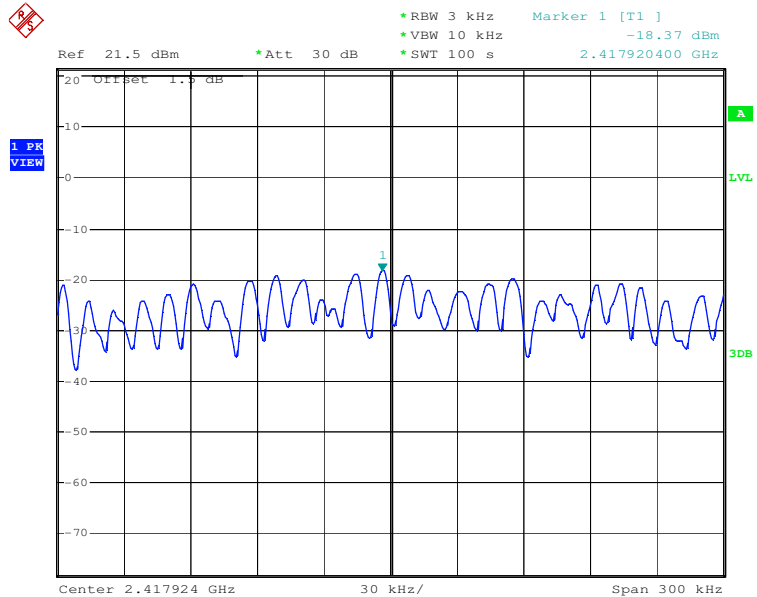
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Test mode:	802.11b	Test channel:	Highest
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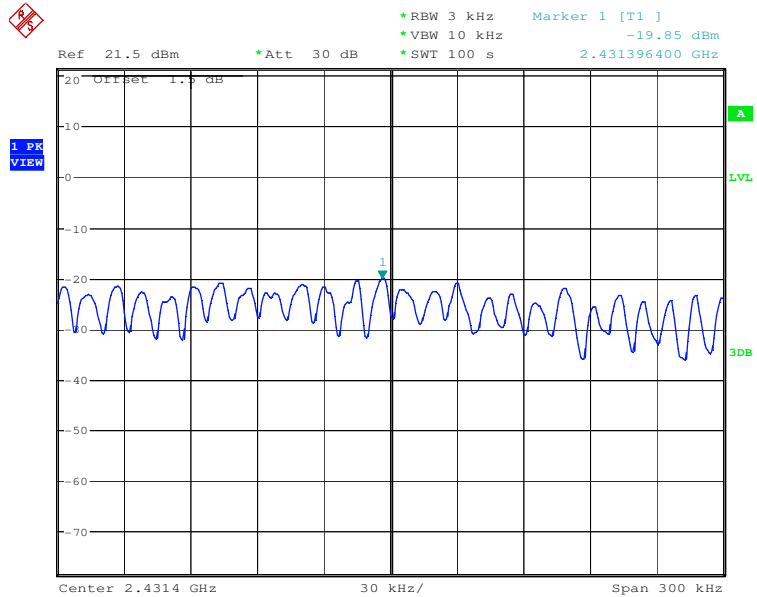
Test mode:	802.11g	Test channel:	Lowest
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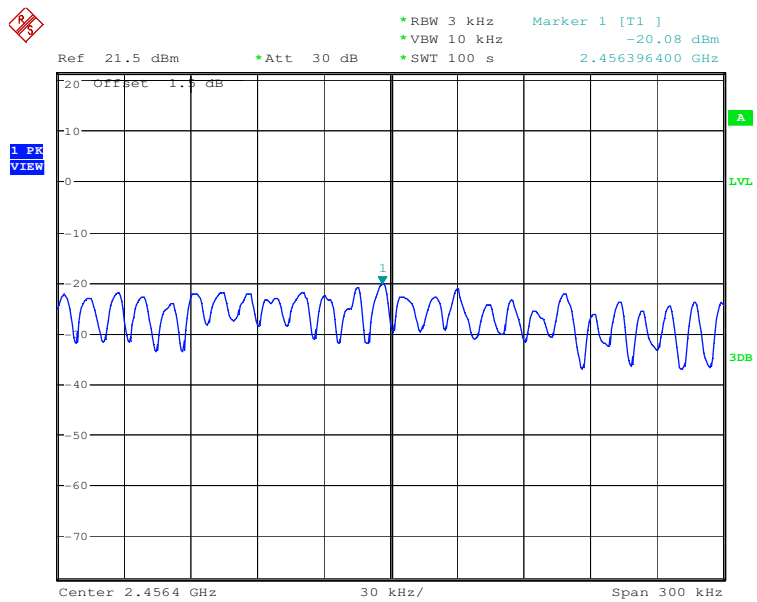
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Test mode:	802.11g	Test channel:	Middle
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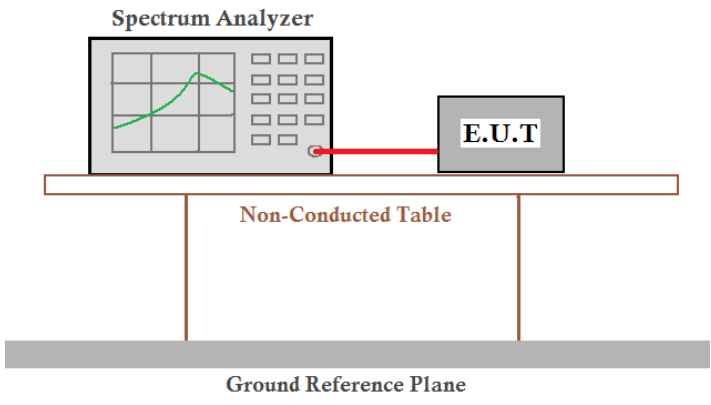


Test mode:	802.11g	Test channel:	Highest
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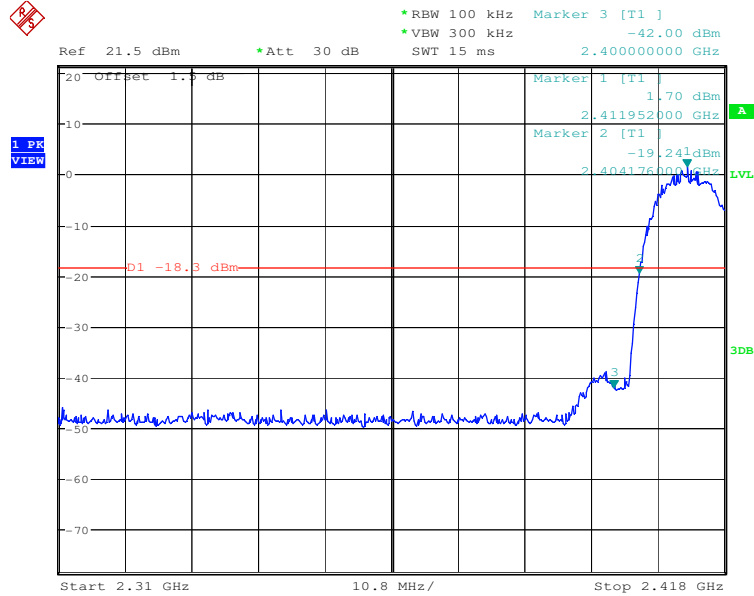
5.6 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.8 for details
Test results:	Pass

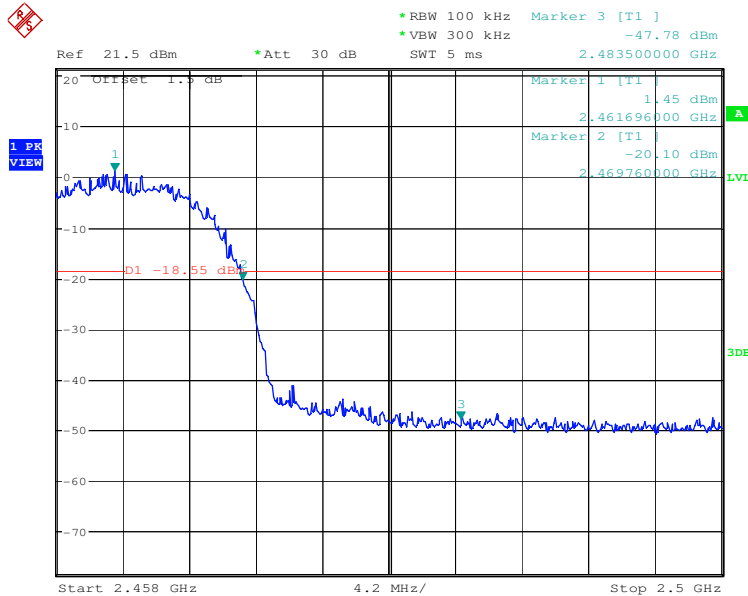


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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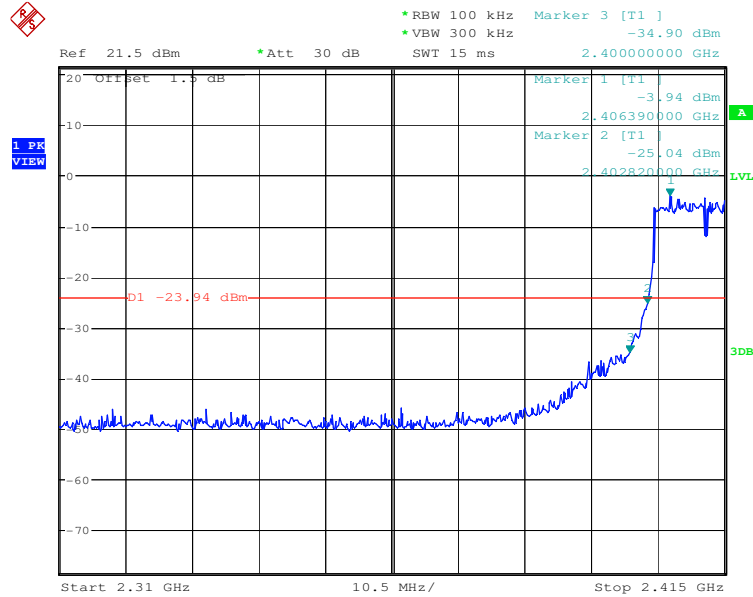
Test mode:	802.11b	Test channel:	Highest
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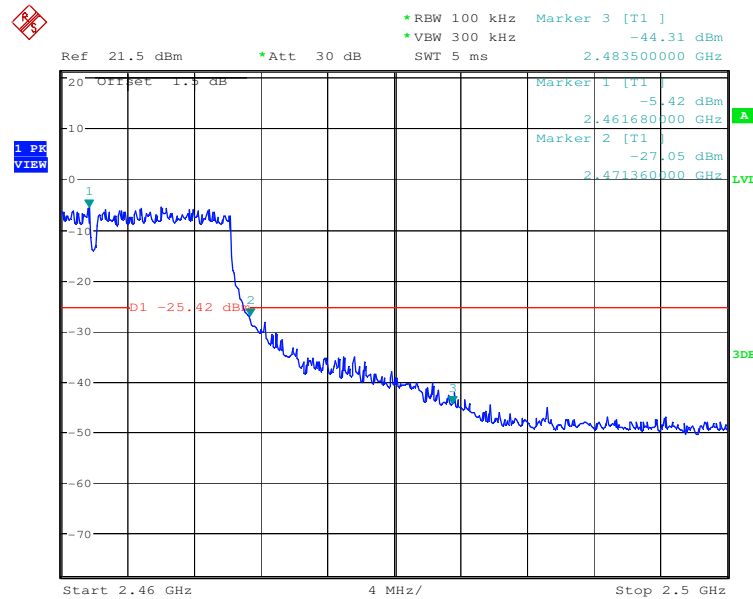
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Test mode:	802.11g	Test channel:	Lowest
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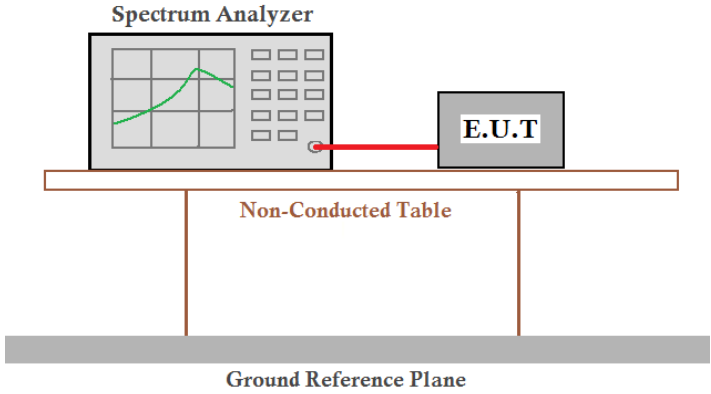


Test mode:	802.11g	Test channel:	Highest
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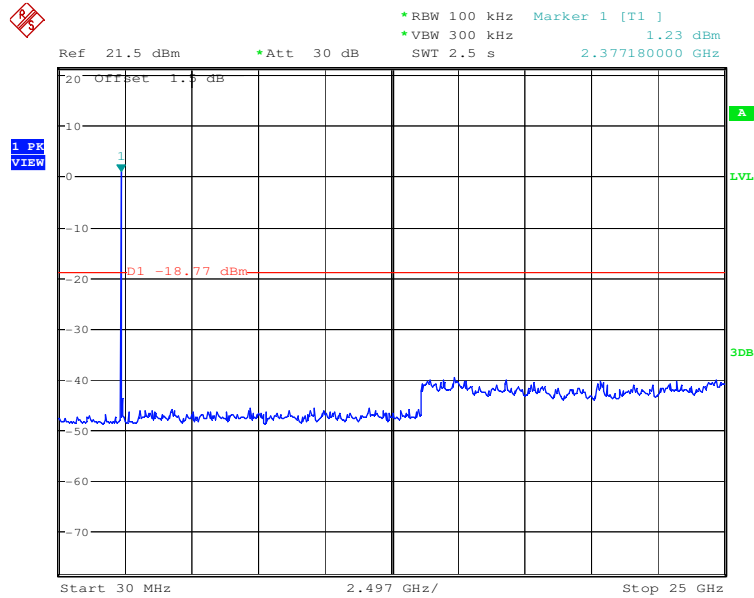
5.7 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.8 for details
Test results:	Pass

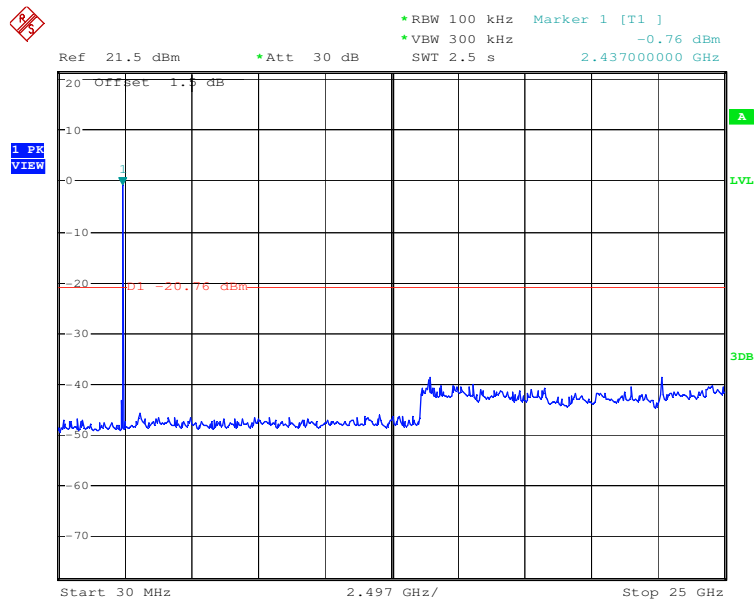


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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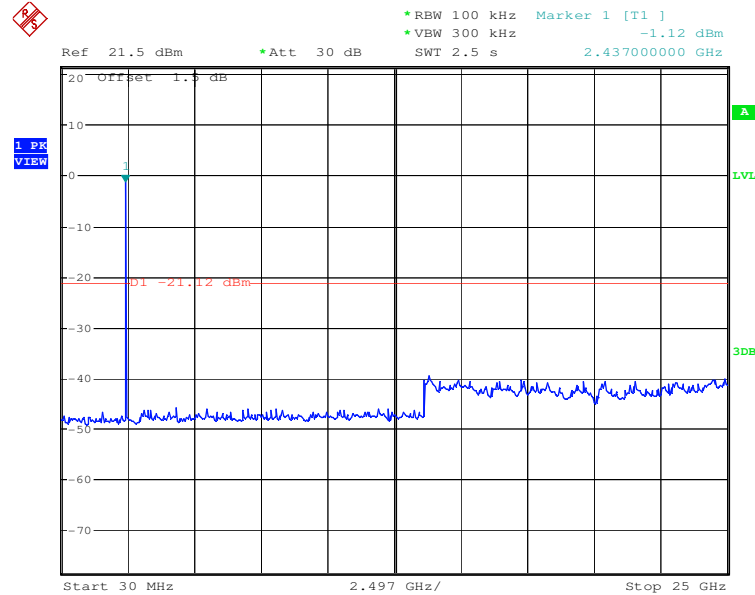
Test mode:	802.11b	Test channel:	Middle
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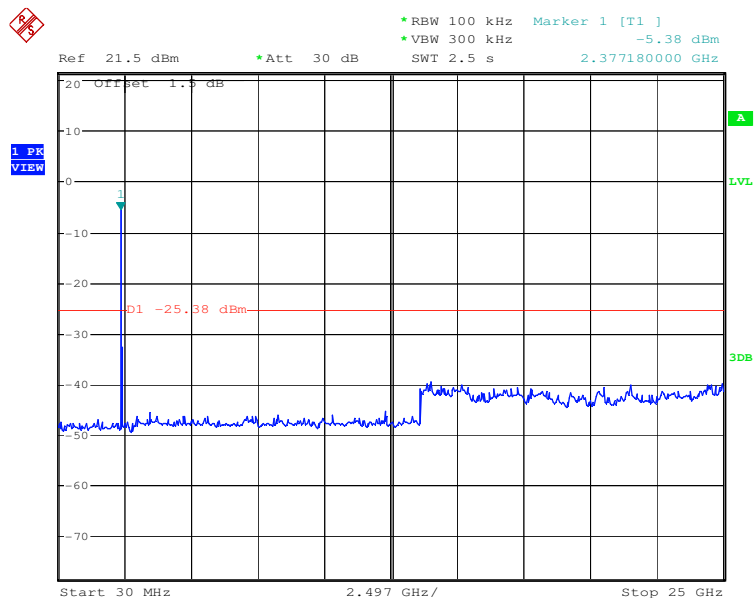
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Test mode:	802.11b	Test channel:	Highest
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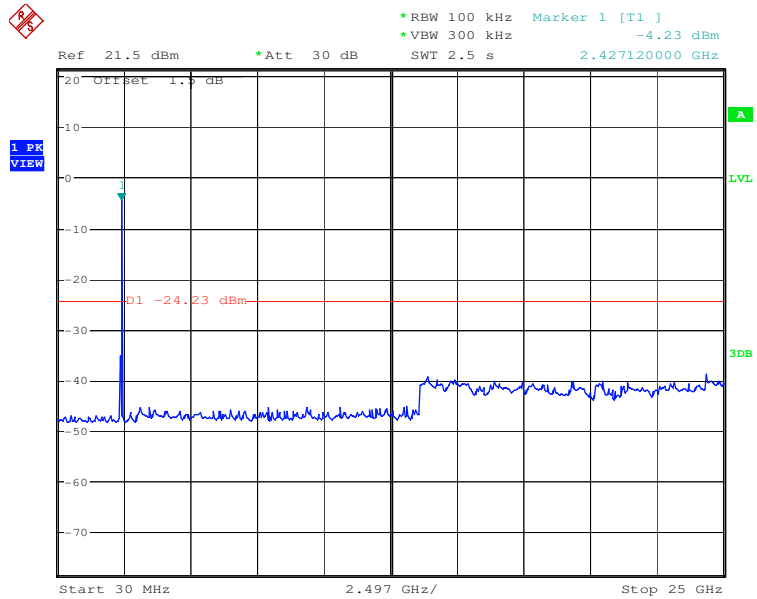


Test mode:	802.11g	Test channel:	Lowest
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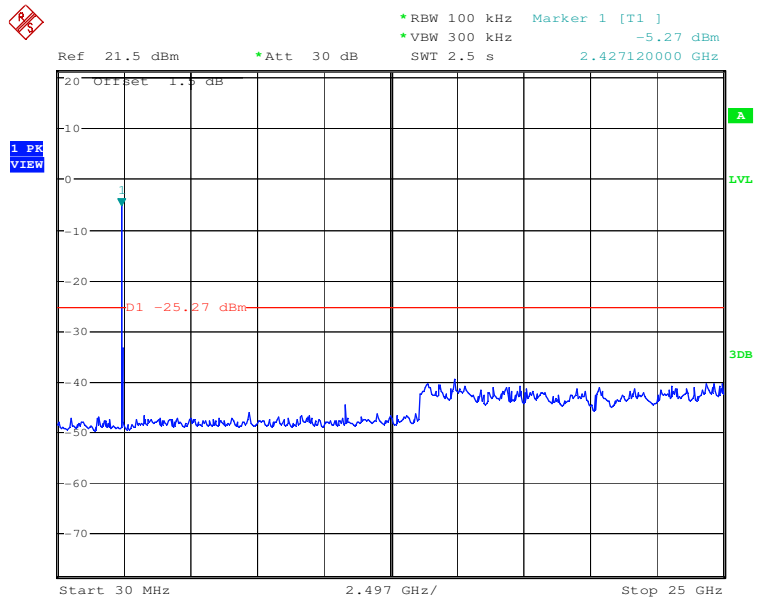


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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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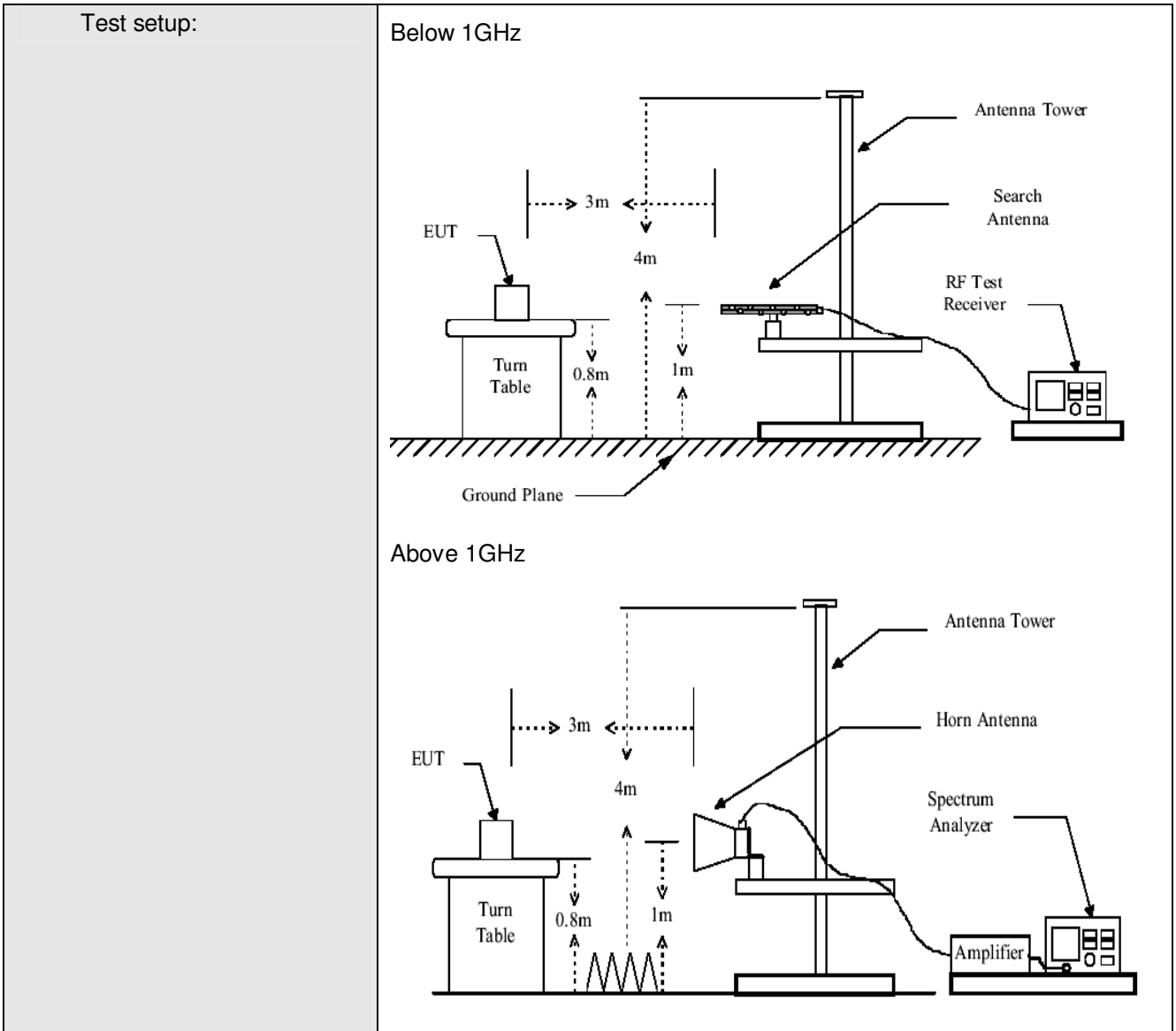
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5.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																							
Test Method:	ANSI C63.10: 2009																							
Test Frequency Range:	30MHz to 25GHz																							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																							
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>				Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																				
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																				
Above 1GHz	Peak	1MHz	3MHz	Peak Value																				
	Peak	1MHz	10Hz	Average Value																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>				Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																						
30MHz-88MHz	40.0	Quasi-peak Value																						
88MHz-216MHz	43.5	Quasi-peak Value																						
216MHz-960MHz	46.0	Quasi-peak Value																						
960MHz-1GHz	54.0	Quasi-peak Value																						
Above 1GHz	54.0	Average Value																						
	74.0	Peak Value																						
Test Procedure:	<p>The E.U.T and its simulators are placed on a turn table which is 0.8meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.</p> <p>Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2009 on radiated measurement.</p> <p>The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.</p>																							
Test Instruments:	Refer to section 4.8 for details																							
Test mode:	Non-hopping transmitting with modulation. Pre-scan the EUT in Transmitting and AC charge+ Transmitting modes and find out the worst case is AC charge+ Transmitting mode. only the worst case data was displayed.																							
Test results:	Pass																							

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Note:

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

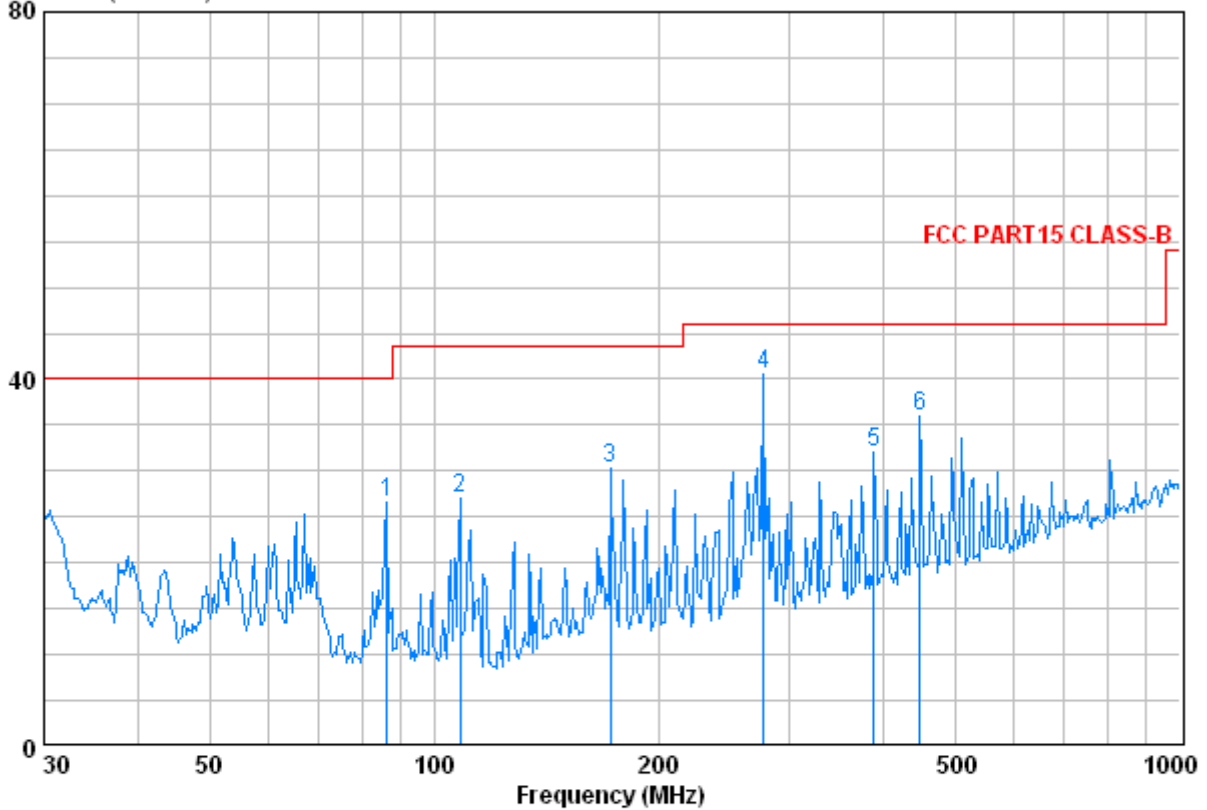
$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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5.8.1 Radiated emission below 1GHz

Vertical

Data: 28
Level (dBuV/m)



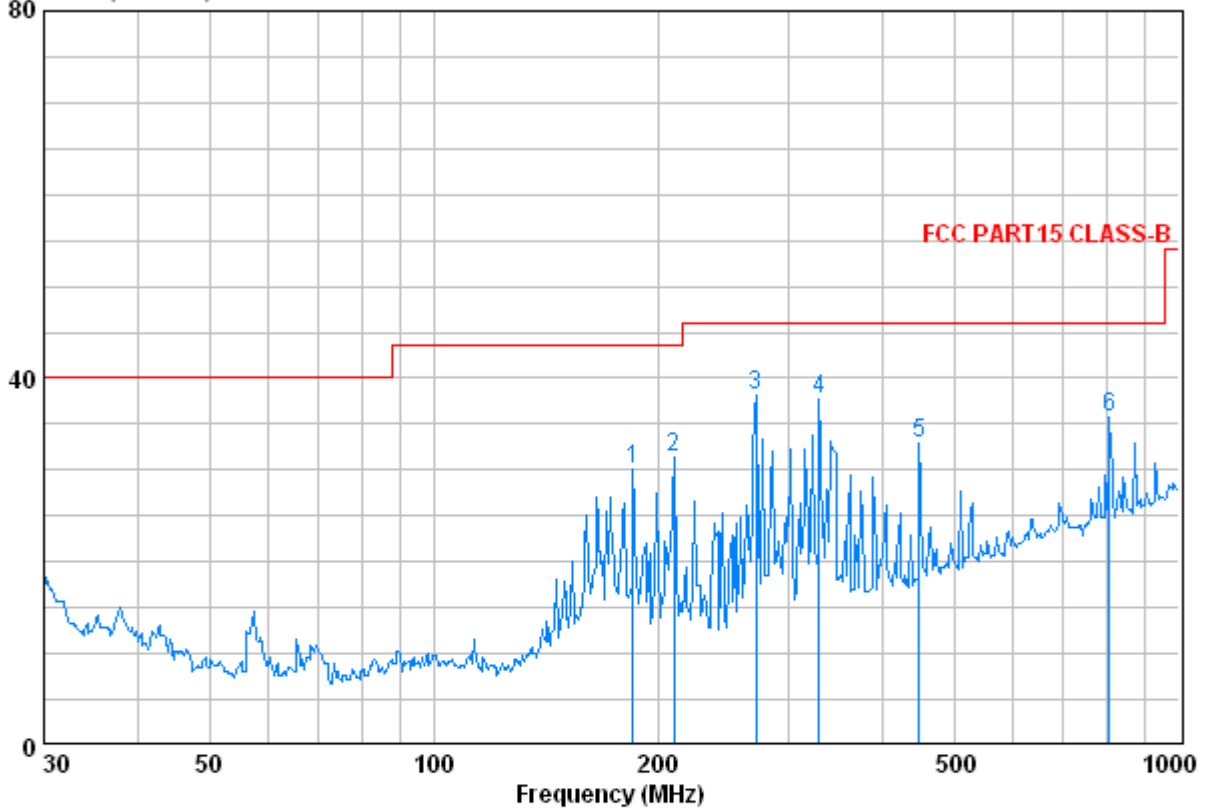
	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV/m	dB
1	86.503	1.10	8.36	27.22	40.00	-13.50
2	108.267	1.22	8.70	27.14	43.50	-16.39
3	172.599	1.36	9.61	26.81	43.50	-13.19
4 @	277.094	1.80	12.89	26.46	46.00	-5.46
5	389.355	2.17	16.17	27.07	46.00	-14.01
6	447.982	2.40	16.84	27.44	46.00	-9.92

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Horizontal

Data: 29
Level (dBuV/m)



	Freq	CableAntenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	185.138	1.38	10.01	26.75	45.37	30.00	43.50	-13.50
2	210.048	1.46	10.73	26.66	45.77	31.29	43.50	-12.21
3	270.375	1.77	12.70	26.48	50.11	38.11	46.00	-7.89
4	329.039	1.99	14.92	26.62	47.48	37.77	46.00	-8.23
5	447.982	2.40	16.84	27.44	41.02	32.83	46.00	-13.17
6	807.429	3.24	22.18	27.27	37.54	35.69	46.00	-10.31

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5.8.2 Transmitter emission above 1GHz

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1834.250	2.73	30.57	39.50	48.02	41.82	74.00	-32.18	Vertical		
4795.250	4.68	34.73	41.63	51.07	48.85	74.00	-25.15	Vertical		
6193.500	5.18	35.94	40.76	51.33	51.69	74.00	-22.31	Vertical		
7756.250	6.22	36.00	39.39	48.54	51.37	74.00	-22.63	Vertical		
9542.250	6.00	37.23	37.85	47.48	52.86	74.00	-21.14	Vertical		
11281.250	6.29	38.44	37.98	46.29	53.04	74.00	-20.96	Vertical		
1587.500	2.57	28.84	39.39	50.44	42.46	74.00	-31.54	Horizontal		
4795.250	4.68	34.73	41.63	50.63	48.41	74.00	-25.59	Horizontal		
6475.500	5.25	36.26	40.51	49.90	50.90	74.00	-23.10	Horizontal		
7098.250	5.64	35.84	39.97	50.27	51.78	74.00	-22.22	Horizontal		
9918.250	5.98	37.63	37.53	45.76	51.84	74.00	-22.16	Horizontal		
11598.500	6.37	38.49	38.11	46.15	52.90	74.00	-21.10	Horizontal		

Test mode:		802.11b		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization		
1834.250	2.73	30.57	39.50	39.64	33.44	54.00	-20.56	Vertical		
4795.250	4.68	34.73	41.63	43.19	40.97	54.00	-13.03	Vertical		
6193.500	5.18	35.94	40.76	43.61	43.97	54.00	-10.03	Vertical		
7756.250	6.22	36.00	39.39	40.24	43.07	54.00	-10.93	Vertical		
9542.250	6.00	37.23	37.85	39.15	44.53	54.00	-9.47	Vertical		
11281.250	6.29	38.44	37.98	40.29	47.04	54.00	-6.96	Vertical		
1587.500	2.57	28.84	39.39	42.68	34.70	54.00	-19.30	Horizontal		
4795.250	4.68	34.73	41.63	38.68	36.46	54.00	-17.54	Horizontal		
6475.500	5.25	36.26	40.51	36.25	37.25	54.00	-16.75	Horizontal		
7098.250	5.64	35.84	39.97	40.22	41.73	54.00	-12.27	Horizontal		
9918.250	5.98	37.63	37.53	34.29	40.37	54.00	-13.63	Horizontal		
11598.500	6.37	38.49	38.11	35.86	42.61	54.00	-11.39	Horizontal		



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Test mode:		802.11b		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1634.500	2.60	29.09	39.41	46.78	39.06	74.00	-34.94	Vertical		
3714.250	3.91	33.47	40.83	49.69	46.24	74.00	-27.76	Vertical		
5911.500	5.09	35.56	41.01	49.75	49.39	74.00	-24.61	Vertical		
7051.250	5.60	35.82	40.02	49.39	50.79	74.00	-23.21	Vertical		
8508.250	6.18	36.21	38.75	47.77	51.41	74.00	-22.59	Vertical		
10893.500	6.19	38.46	37.82	45.63	52.46	74.00	-21.54	Vertical		
1681.500	2.63	29.46	39.43	48.71	41.37	74.00	-32.63	Horizontal		
4019.750	4.17	33.89	41.05	49.07	46.08	74.00	-27.92	Horizontal		
4842.250	4.71	34.65	41.65	50.52	48.23	74.00	-25.77	Horizontal		
6111.250	5.16	35.84	40.83	50.46	50.63	74.00	-23.37	Horizontal		
7227.500	5.81	35.89	39.85	49.41	51.26	74.00	-22.74	Horizontal		
9025.250	6.15	36.62	38.31	47.27	51.73	74.00	-22.27	Horizontal		

Test mode:		802.11b		Test channel:		Middle		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization		
1634.500	2.60	29.09	39.41	35.29	27.57	54.00	-26.43	Vertical		
3714.250	3.91	33.47	40.83	37.30	33.85	54.00	-20.15	Vertical		
5911.500	5.09	35.56	41.01	38.49	38.13	54.00	-15.87	Vertical		
7051.250	5.60	35.82	40.02	37.62	39.02	54.00	-14.98	Vertical		
8508.250	6.18	36.21	38.75	36.24	39.88	54.00	-14.12	Vertical		
10893.500	6.19	38.46	37.82	34.67	41.50	54.00	-12.50	Vertical		
1681.500	2.63	29.46	39.43	38.12	30.78	54.00	-23.22	Horizontal		
4019.750	4.17	33.89	41.05	38.13	35.14	54.00	-18.86	Horizontal		
4842.250	4.71	34.65	41.65	39.16	36.87	54.00	-17.13	Horizontal		
6111.250	5.16	35.84	40.83	38.12	38.29	54.00	-15.71	Horizontal		
7227.500	5.81	35.89	39.85	36.24	38.09	54.00	-15.91	Horizontal		
9025.250	6.15	36.62	38.31	36.49	40.95	54.00	-13.05	Horizontal		

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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1728.500	2.66	29.83	39.45	47.40	40.44	74.00	-33.56	Vertical		
4548.500	4.53	35.12	41.44	49.73	47.94	74.00	-26.06	Vertical		
6381.500	5.23	36.16	40.59	49.03	49.83	74.00	-24.17	Vertical		
6569.500	5.27	36.23	40.43	50.78	51.85	74.00	-22.15	Vertical		
8073.500	6.20	36.03	39.13	47.49	50.59	74.00	-23.41	Vertical		
10235.500	6.03	37.98	37.54	45.25	51.72	74.00	-22.28	Vertical		
1587.500	2.57	28.84	39.39	49.51	41.53	74.00	-32.47	Horizontal		
4219.500	4.30	34.41	41.19	49.05	46.57	74.00	-27.43	Horizontal		
5265.250	4.87	34.67	41.57	49.50	47.47	74.00	-26.53	Horizontal		
6616.500	5.29	36.20	40.38	49.97	51.08	74.00	-22.92	Horizontal		
8085.250	6.20	36.03	39.11	48.22	51.34	74.00	-22.66	Horizontal		
10059.250	5.99	37.78	37.47	45.92	52.22	74.00	-21.78	Horizontal		

Test mode:		802.11b		Test channel:		Highest		Remark:		Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Polarization	
1728.500	2.66	29.83	39.45	35.69	28.73	54.00	-25.27	Vertical	
4548.500	4.53	35.12	41.44	38.15	36.36	54.00	-17.64	Vertical	
6381.500	5.23	36.16	40.59	36.87	37.67	54.00	-16.33	Vertical	
6569.500	5.27	36.23	40.43	39.72	40.79	54.00	-13.21	Vertical	
8073.500	6.20	36.03	39.13	34.29	37.39	54.00	-16.61	Vertical	
10235.500	6.03	37.98	37.54	34.19	40.66	54.00	-13.34	Vertical	
1587.500	2.57	28.84	39.39	38.46	30.48	54.00	-23.52	Horizontal	
4219.500	4.30	34.41	41.19	38.46	35.98	54.00	-18.02	Horizontal	
5265.250	4.87	34.67	41.57	36.79	34.76	54.00	-19.24	Horizontal	
6616.500	5.29	36.20	40.38	38.48	39.59	54.00	-14.41	Horizontal	
8085.250	6.20	36.03	39.11	37.49	40.61	54.00	-13.39	Horizontal	
10059.250	5.99	37.78	37.47	32.31	38.61	54.00	-15.39	Horizontal	

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Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1599.250	2.58	28.84	39.40	48.98	41.00	74.00	-33.00	Vertical		
3761.250	3.96	33.51	40.86	49.47	46.08	74.00	-27.92	Vertical		
4795.250	4.68	34.73	41.63	51.12	48.90	74.00	-25.10	Vertical		
5547.250	4.97	34.96	41.32	50.78	49.39	74.00	-24.61	Vertical		
7204.000	5.77	35.88	39.87	49.42	51.20	74.00	-22.80	Vertical		
8778.500	6.17	36.43	38.52	47.60	51.68	74.00	-22.32	Vertical		
1587.500	2.57	28.84	39.39	50.34	42.36	74.00	-31.64	Horizontal		
3702.500	3.91	33.45	40.81	49.22	45.77	74.00	-28.23	Horizontal		
4795.250	4.68	34.73	41.63	51.29	49.07	74.00	-24.93	Horizontal		
6851.500	5.39	35.96	40.18	50.45	51.62	74.00	-22.38	Horizontal		
8778.500	6.17	36.43	38.52	47.11	51.19	74.00	-22.81	Horizontal		
10623.250	6.13	38.35	37.70	45.42	52.20	74.00	-21.80	Horizontal		

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization		
1599.250	2.58	28.84	39.40	40.16	32.18	54.00	-21.82	Vertical		
3761.250	3.96	33.51	40.86	41.26	37.87	54.00	-16.13	Vertical		
4795.250	4.68	34.73	41.63	44.57	42.35	54.00	-11.65	Vertical		
5547.250	4.97	34.96	41.32	42.74	41.35	54.00	-12.65	Vertical		
7204.000	5.77	35.88	39.87	40.37	42.15	54.00	-11.85	Vertical		
8778.500	6.17	36.43	38.52	38.63	42.71	54.00	-11.29	Vertical		
1587.500	2.57	28.84	39.39	43.19	35.21	54.00	-18.79	Horizontal		
3702.500	3.91	33.45	40.81	40.24	36.79	54.00	-17.21	Horizontal		
4795.250	4.68	34.73	41.63	43.79	41.57	54.00	-12.43	Horizontal		
6851.500	5.39	35.96	40.18	42.66	43.83	54.00	-10.17	Horizontal		
8778.500	6.17	36.43	38.52	38.63	42.71	54.00	-11.29	Horizontal		
10623.250	6.13	38.35	37.70	36.74	43.52	54.00	-10.48	Horizontal		

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Test mode:		802.11g		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1834.250	2.73	30.57	39.50	47.36	41.16	74.00	-32.84	Vertical		
3855.250	4.04	33.63	40.93	49.71	46.45	74.00	-27.55	Vertical		
4877.500	4.72	34.59	41.68	50.40	48.03	74.00	-25.97	Vertical		
6722.250	5.31	36.08	40.30	50.55	51.64	74.00	-22.36	Vertical		
8026.500	6.20	36.01	39.16	49.60	52.65	74.00	-21.35	Vertical		
10705.500	6.15	38.38	37.74	45.57	52.36	74.00	-21.64	Vertical		
1587.500	2.57	28.84	39.39	50.66	42.68	74.00	-31.32	Horizontal		
4407.500	4.43	34.92	41.33	49.70	47.72	74.00	-26.28	Horizontal		
5923.250	5.10	35.59	40.99	50.71	50.41	74.00	-23.59	Horizontal		
7098.250	5.64	35.84	39.97	50.79	52.30	74.00	-21.70	Horizontal		
8355.500	6.19	36.14	38.88	48.52	51.97	74.00	-22.03	Horizontal		
10611.500	6.13	38.34	37.70	45.76	52.53	74.00	-21.47	Horizontal		

Test mode:		802.11g		Test channel:		Middle		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization		
1834.250	2.73	30.57	39.50	39.19	32.99	54.00	-21.01	Vertical		
3855.250	4.04	33.63	40.93	38.47	35.21	54.00	-18.79	Vertical		
4877.500	4.72	34.59	41.68	43.66	41.29	54.00	-12.71	Vertical		
6722.250	5.31	36.08	40.30	42.18	43.27	54.00	-10.73	Vertical		
8026.500	6.20	36.01	39.16	42.75	45.80	54.00	-8.20	Vertical		
10705.500	6.15	38.38	37.74	37.16	43.95	54.00	-10.05	Vertical		
1587.500	2.57	28.84	39.39	42.67	34.69	54.00	-19.31	Horizontal		
4407.500	4.43	34.92	41.33	42.64	40.66	54.00	-13.34	Horizontal		
5923.250	5.10	35.59	40.99	42.34	42.04	54.00	-11.96	Horizontal		
7098.250	5.64	35.84	39.97	43.20	44.71	54.00	-9.29	Horizontal		
8355.500	6.19	36.14	38.88	40.61	44.06	54.00	-9.94	Horizontal		
10611.500	6.13	38.34	37.70	38.16	44.93	54.00	-9.07	Horizontal		

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Test mode:		802.11g		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1587.500	2.57	28.84	39.39	49.08	41.10	74.00	-32.90	Vertical		
3232.500	3.52	33.31	40.48	49.05	45.40	74.00	-28.60	Vertical		
4313.500	4.37	34.69	41.26	49.58	47.38	74.00	-26.62	Vertical		
6522.500	5.26	36.28	40.46	50.55	51.63	74.00	-22.37	Vertical		
8026.500	6.20	36.01	39.16	48.77	51.82	74.00	-22.18	Vertical		
10141.500	6.01	37.88	37.51	47.20	53.58	74.00	-20.42	Vertical		
1587.500	2.57	28.84	39.39	50.83	42.85	74.00	-31.15	Horizontal		
2997.500	3.32	33.40	40.30	49.47	45.89	74.00	-28.11	Horizontal		
4313.500	4.37	34.69	41.26	50.54	48.34	74.00	-25.66	Horizontal		
6475.500	5.25	36.26	40.51	50.89	51.89	74.00	-22.11	Horizontal		
7697.500	6.22	36.00	39.46	49.41	52.17	74.00	-21.83	Horizontal		
10623.250	6.13	38.35	37.70	46.14	52.92	74.00	-21.08	Horizontal		

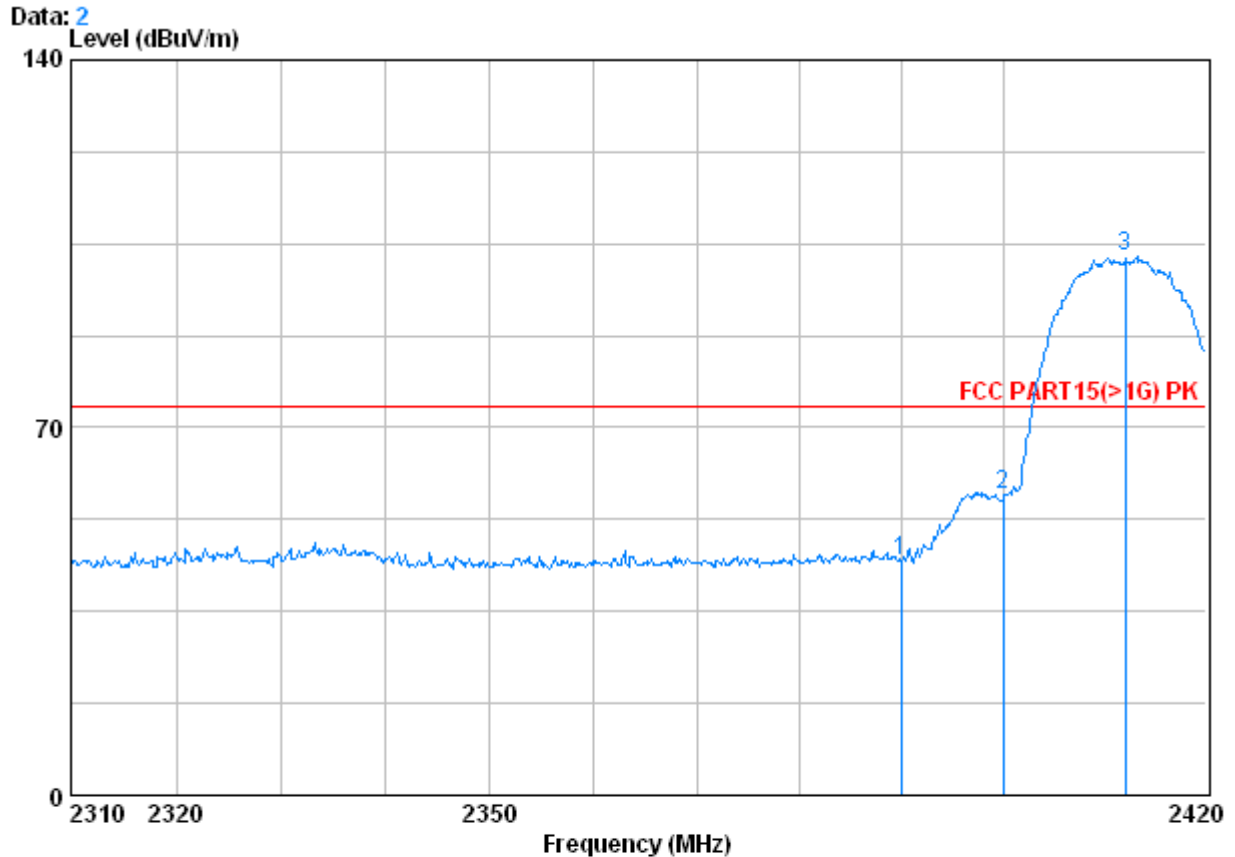
Test mode:		802.11g		Test channel:		Highest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization		
1587.500	2.57	28.84	39.39	42.34	34.36	54.00	-19.64	Vertical		
3232.500	3.52	33.31	40.48	42.75	39.10	54.00	-14.90	Vertical		
4313.500	4.37	34.69	41.26	41.37	39.17	54.00	-14.83	Vertical		
6522.500	5.26	36.28	40.46	43.61	44.69	54.00	-9.31	Vertical		
8026.500	6.20	36.01	39.16	42.54	45.59	54.00	-8.41	Vertical		
10141.500	6.01	37.88	37.51	40.52	46.90	54.00	-7.10	Vertical		
1587.500	2.57	28.84	39.39	45.16	37.18	54.00	-16.82	Horizontal		
2997.500	3.32	33.40	40.30	43.18	39.60	54.00	-14.40	Horizontal		
4313.500	4.37	34.69	41.26	43.19	40.99	54.00	-13.01	Horizontal		
6475.500	5.25	36.26	40.51	44.18	45.18	54.00	-8.82	Horizontal		
7697.500	6.22	36.00	39.46	43.58	46.34	54.00	-7.66	Horizontal		
10623.250	6.13	38.35	37.70	41.33	48.11	54.00	-5.89	Horizontal		

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5.8.3 Band edge (Radiated Emission)

Test mode:	802.11b	Test channel:	Lowest	Vertical	Peak
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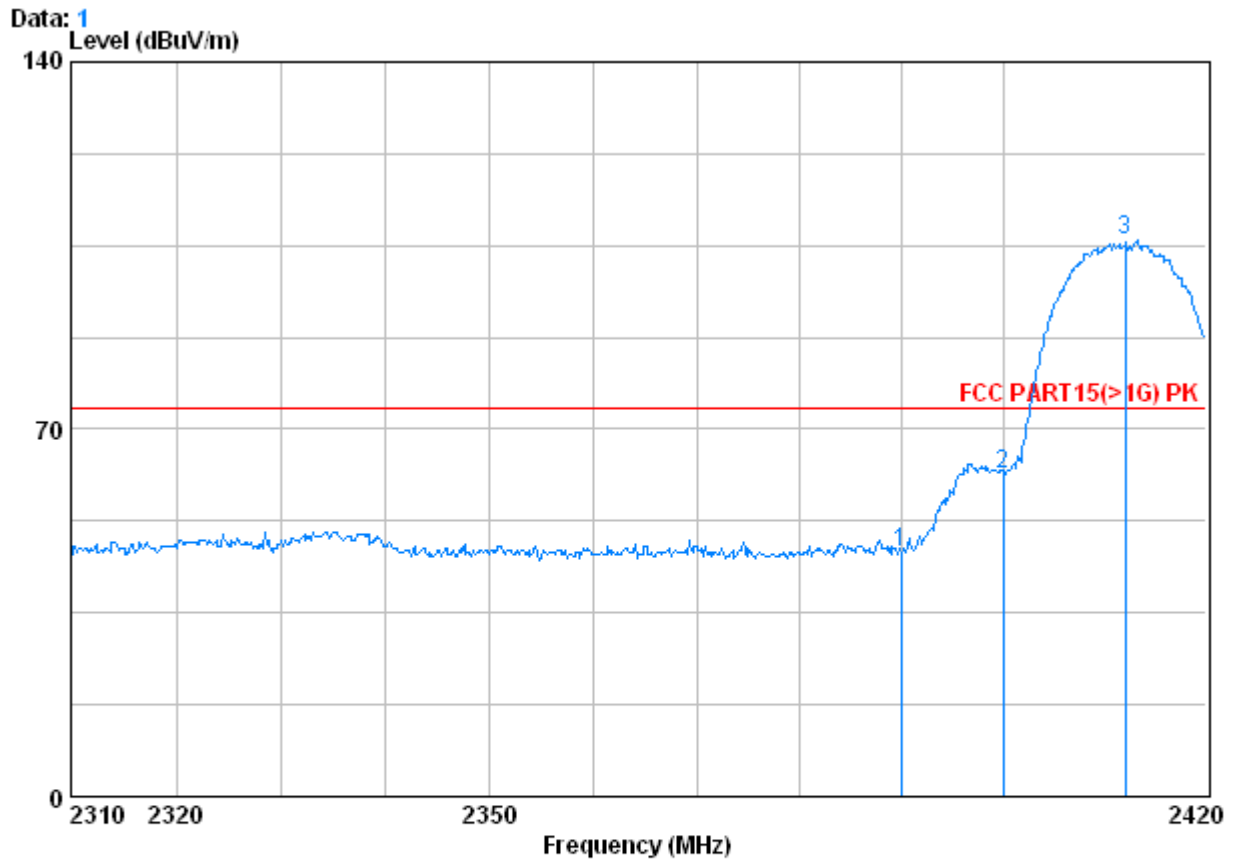


	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	49.05	44.70	74.00	-29.30
2	2400.000	2.98	32.51	39.86	61.65	57.28	74.00	-16.72
3 X	2412.000	2.99	32.54	39.86	106.98	102.66	74.00	28.66

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Test mode:	802.11b	Test channel:	Lowest	Horizontal	Peak
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	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.000	2.98	32.51	39.85	50.99	46.64	74.00	-27.36
2	2400.000	2.98	32.51	39.86	65.61	61.24	74.00	-12.76
3 X	2412.000	2.99	32.54	39.86	110.37	106.04	74.00	32.04

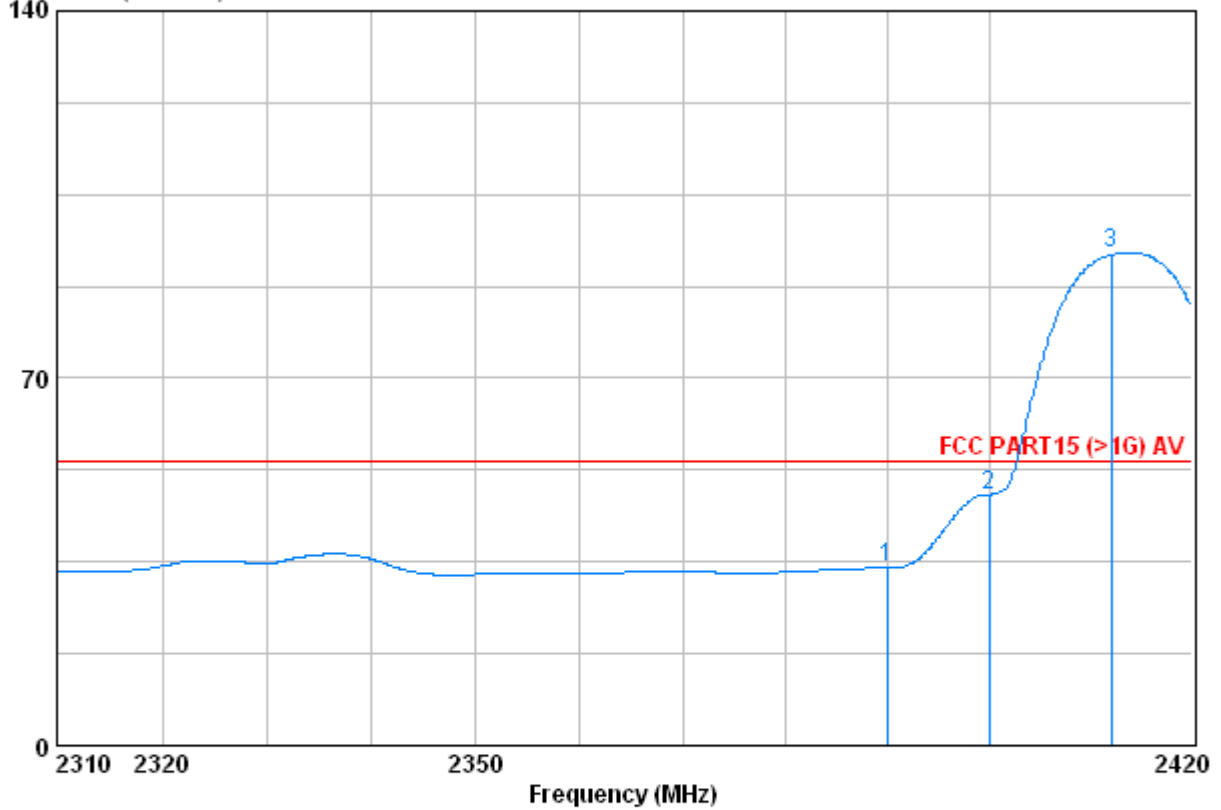
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Test mode:	802.11b	Test channel:	Lowest	Vertical	Average
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Data: 3

Level (dBuV/m)

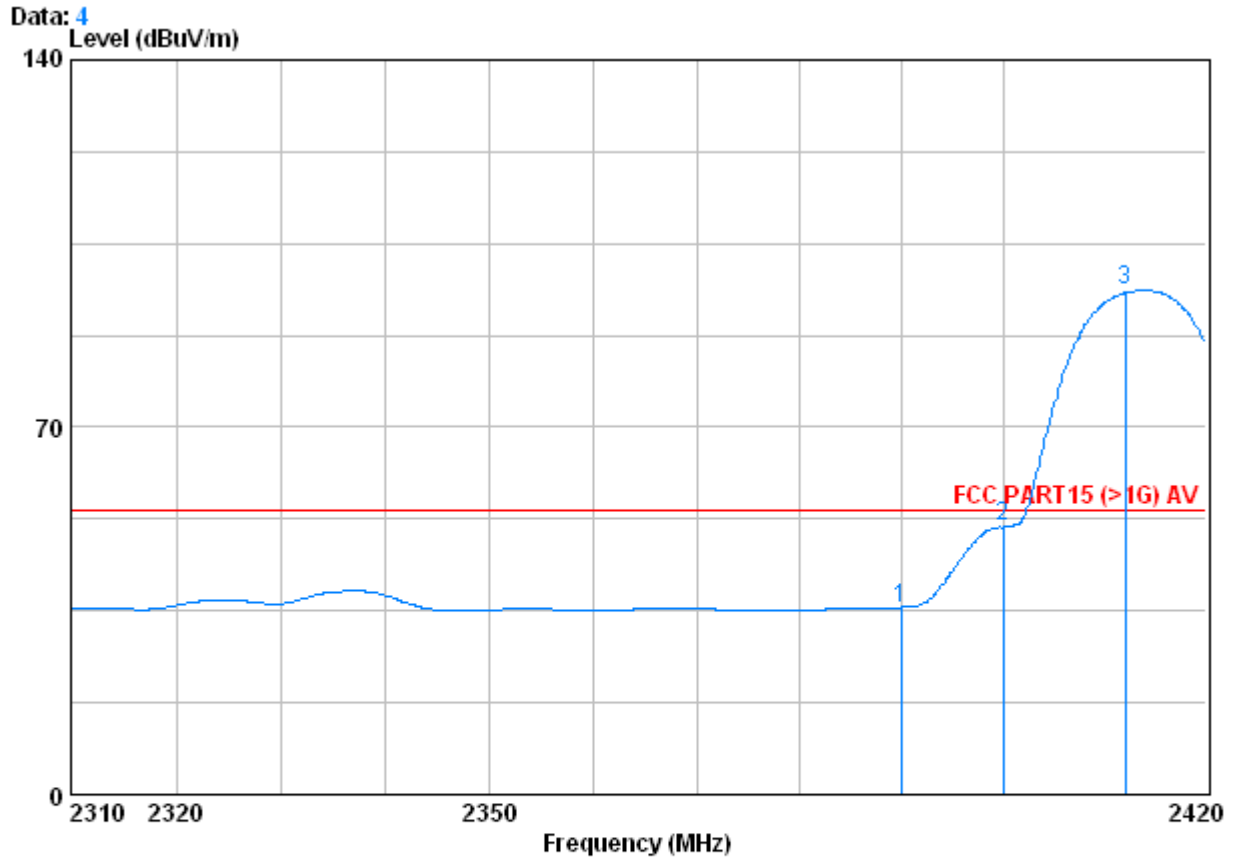


	CableAntenna	Preamp	Read	Limit	Over			
Freq	Loss	Factor	Level	Line	Limit			
MHz	dB	dB/m	dB	dBuV	dBuV/m			
1	2390.000	2.98	32.51	39.85	38.19	33.83	54.00	-20.17
2	2400.000	2.98	32.51	39.86	52.19	47.83	54.00	-6.17
3 X	2412.000	2.99	32.54	39.86	98.26	93.93	54.00	39.93

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Test mode:	802.11b	Test channel:	Lowest	Horizontal	Average
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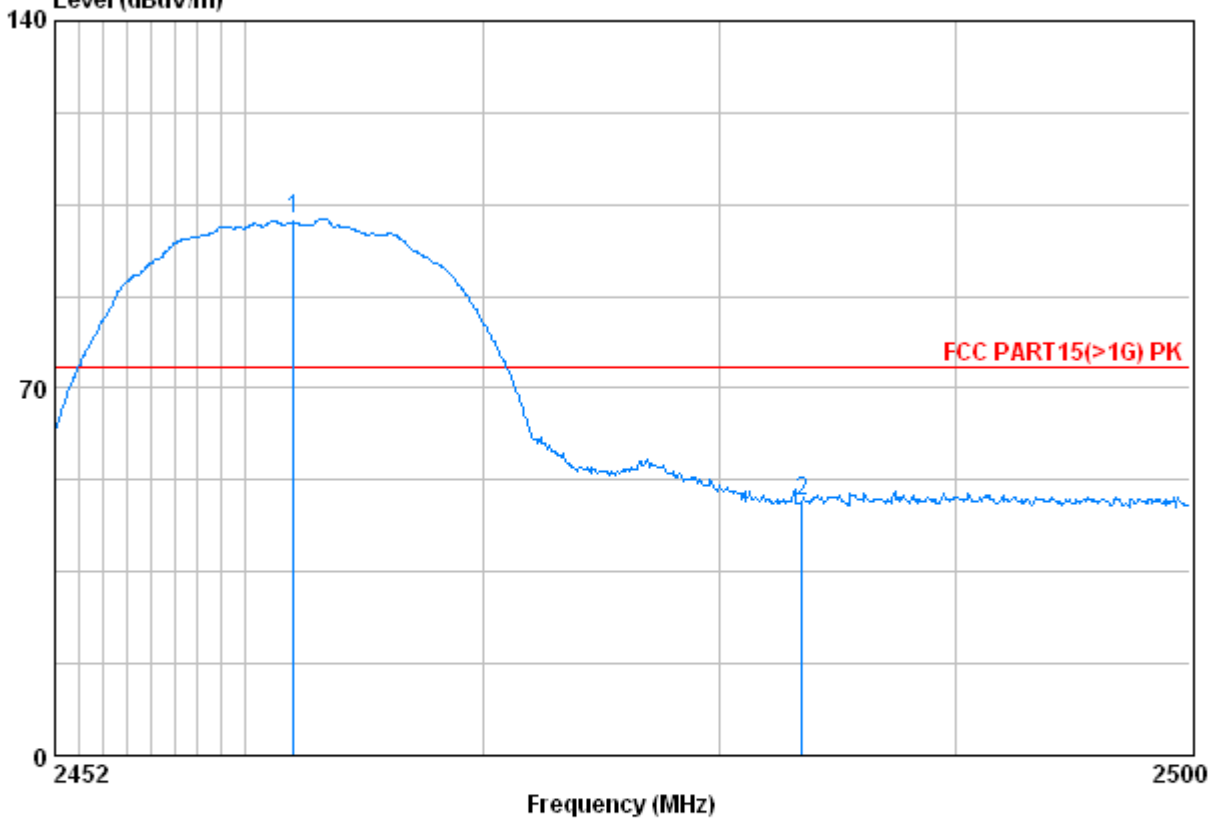
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	40.02	35.67	54.00	-18.33
2	2400.000	2.98	32.51	39.86	55.33	50.96	54.00	-3.04
3 X	2412.000	2.99	32.54	39.86	100.38	96.05	54.00	42.05

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Test mode:	802.11b	Test channel:	Highest	Vertical	Peak
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Data: 6
Level (dBuV/m)



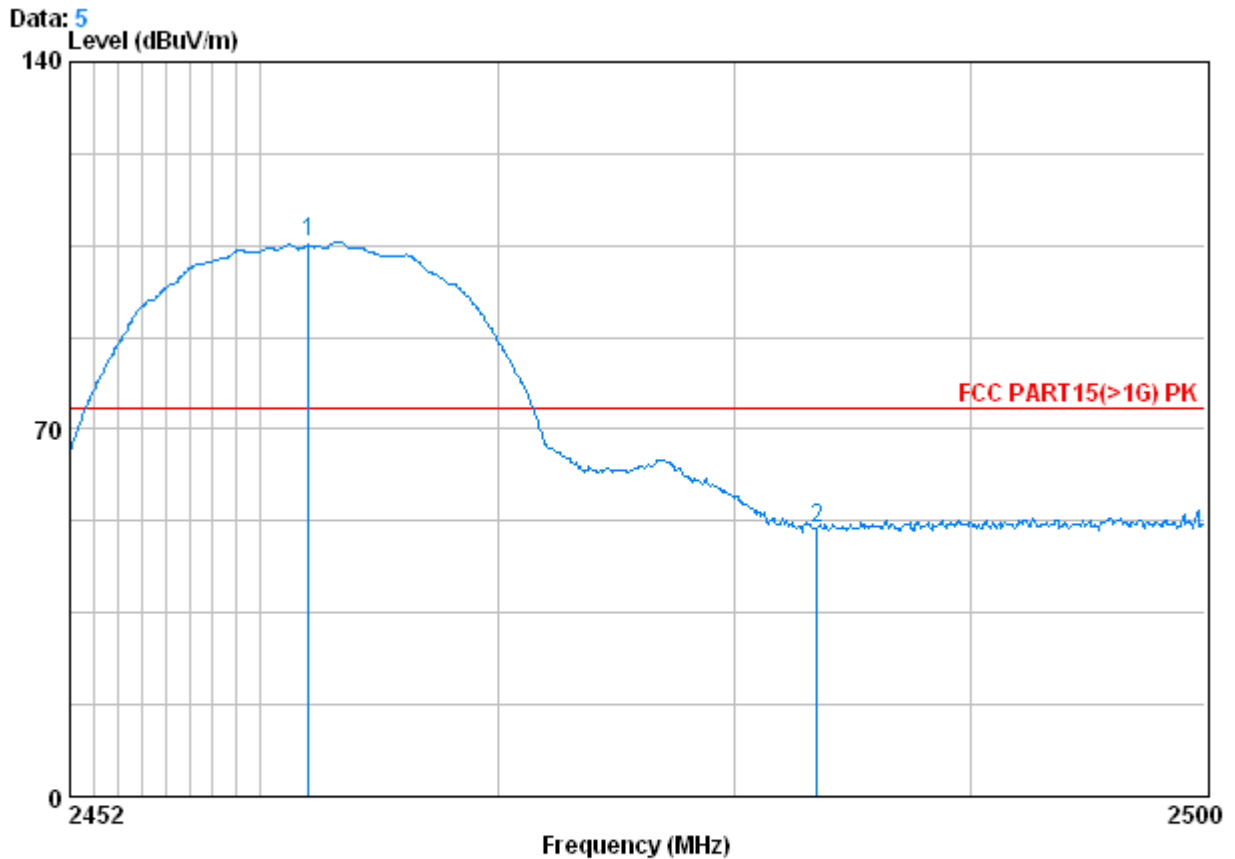
	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1 X	2462.000	3.02	32.64	39.91	106.51	102.26	74.00	28.26
2	2483.500	3.03	32.67	39.92	52.83	48.61	74.00	-25.39



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Test mode:	802.11b	Test channel:	Highest	Horizontal	Peak
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	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2462.000	3.02	32.64	39.91	110.08	105.83	74.00	31.83
2	2483.500	3.03	32.67	39.92	55.28	51.06	74.00	-22.94

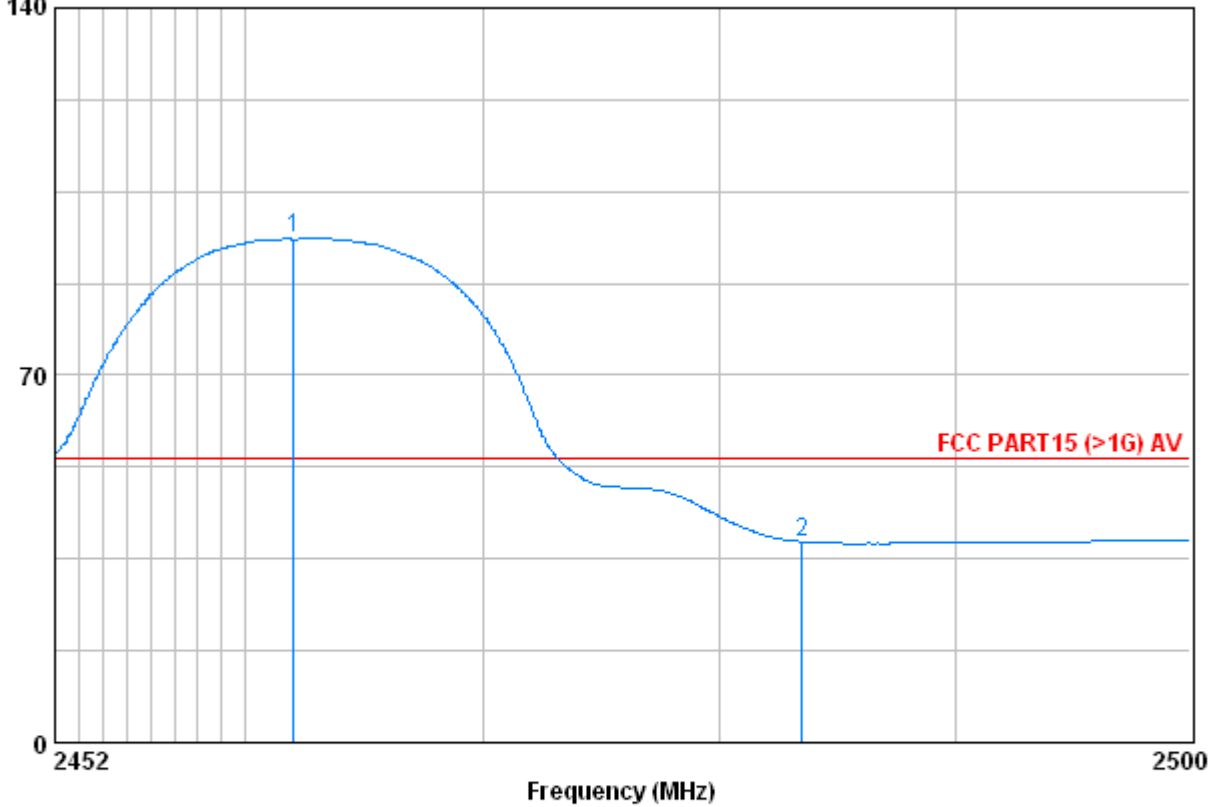
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Test mode:	802.11b	Test channel:	Highest	Vertical	Average
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Data: 7

Level (dBuV/m)

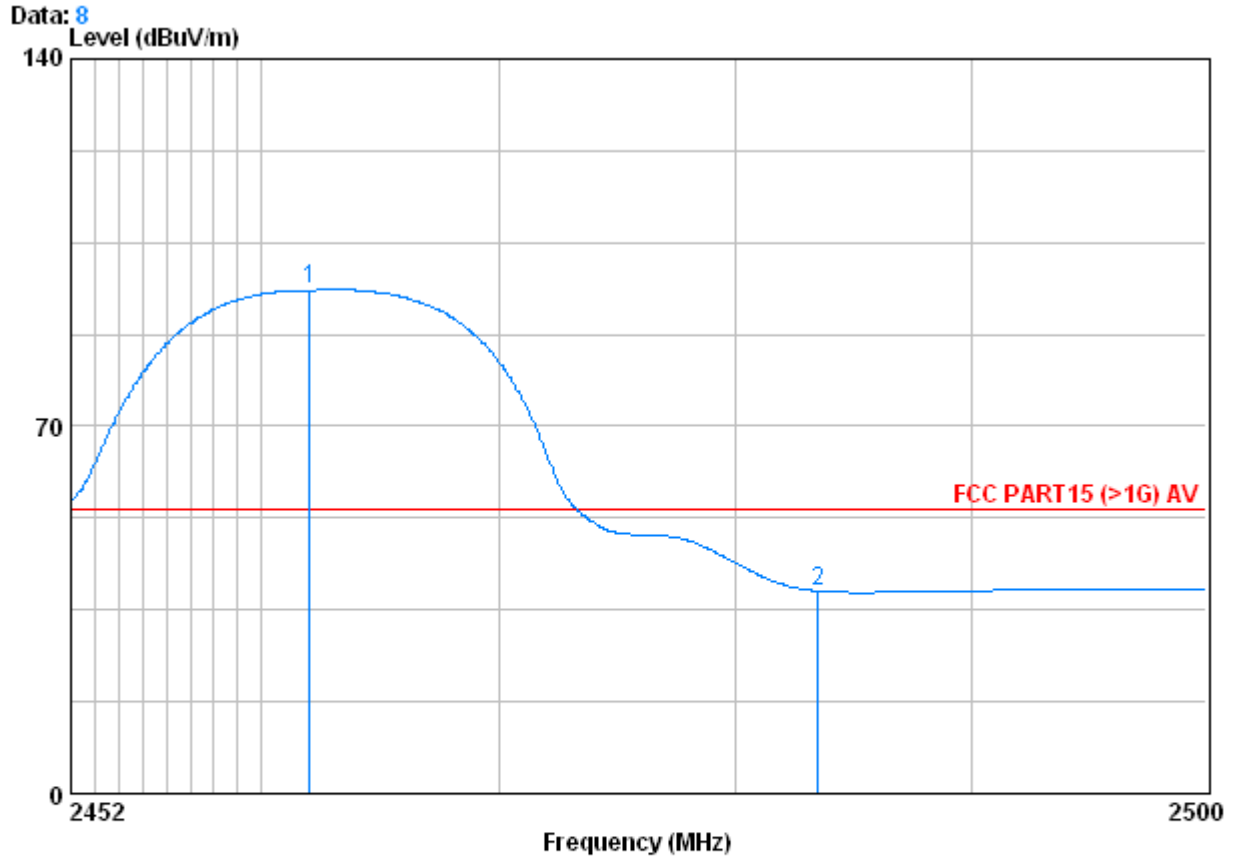


		CableAntenna	Preamp	Read	Limit	Over			
	Freq	Loss	Factor	Level	Line	Limit			
	MHz	dB	dB/m	dB	dBuV	dBuV/m			
1	X	2462.000	3.02	32.64	39.91	100.25	96.00	54.00	42.00
2		2483.500	3.03	32.67	39.92	42.50	38.28	54.00	-15.72

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Test mode:	802.11b	Test channel:	Highest	Horizontal	Average
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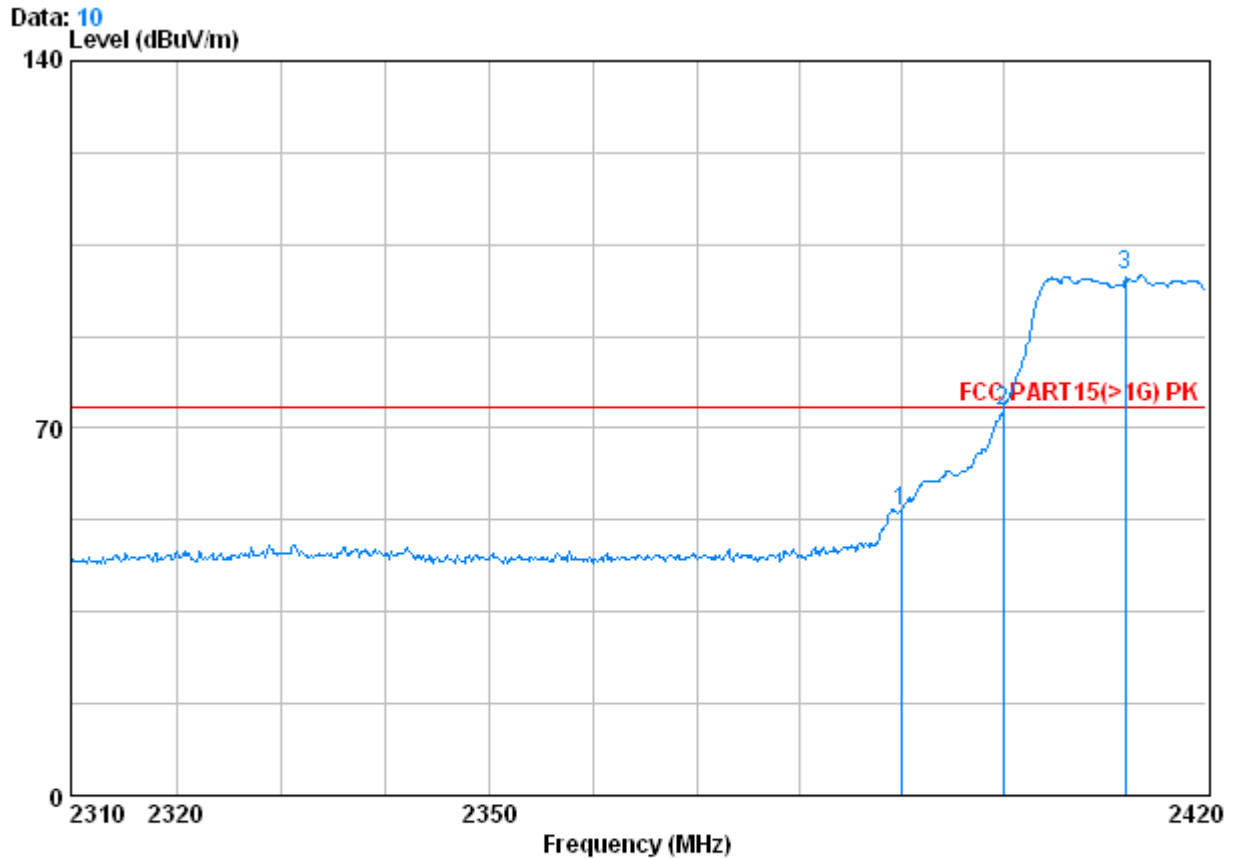


	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1 @	2462.000	3.02	32.64	39.91	100.30	96.05	54.00	42.05
2	2483.500	3.03	32.67	39.92	42.83	38.61	54.00	-15.39

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Test mode:	802.11g	Test channel:	Lowest	Vertical	Peak
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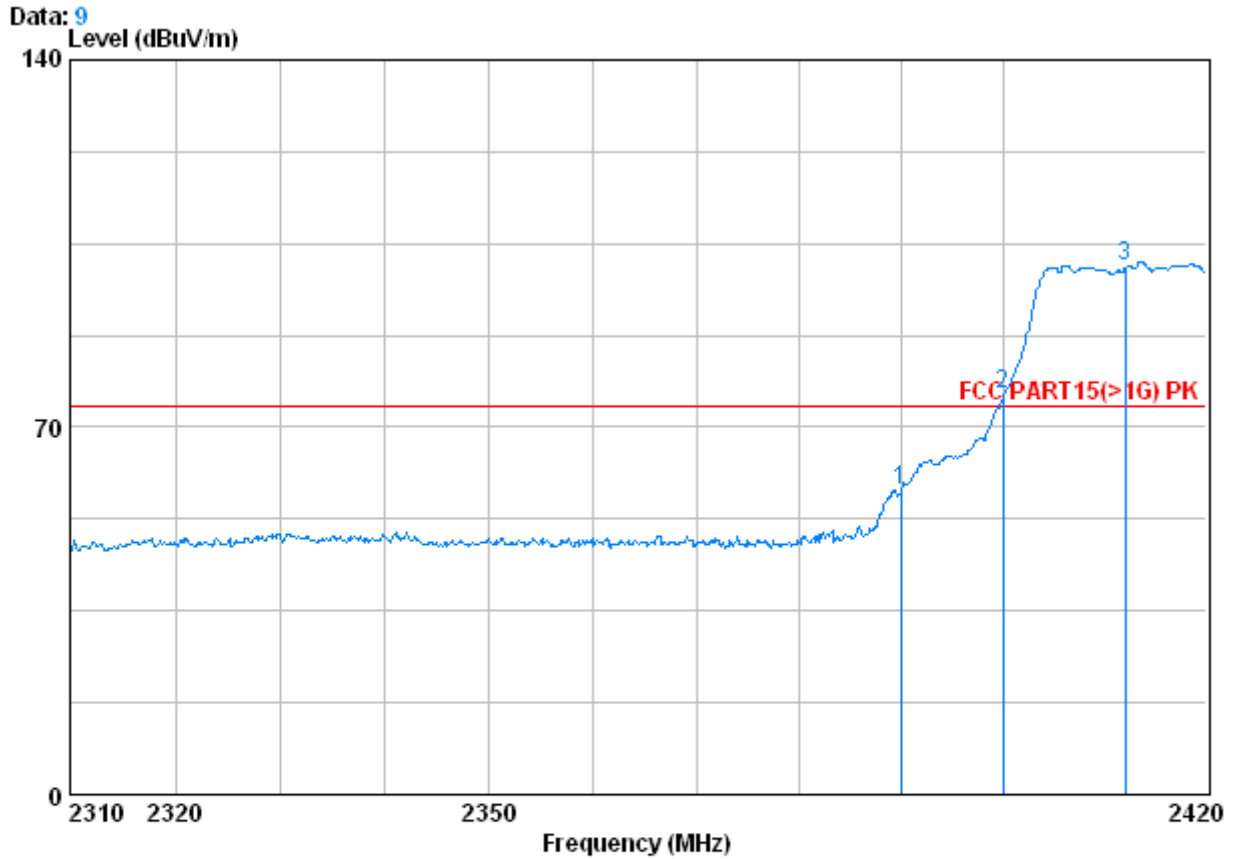


	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	58.64	54.29	74.00	-19.71
2	2400.000	2.98	32.51	39.86	77.49	73.13	74.00	-0.87
3 X	2412.000	2.99	32.54	39.86	103.43	99.11	74.00	25.11

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Test mode:	802.11g	Test channel:	Lowest	Horizontal	Peak
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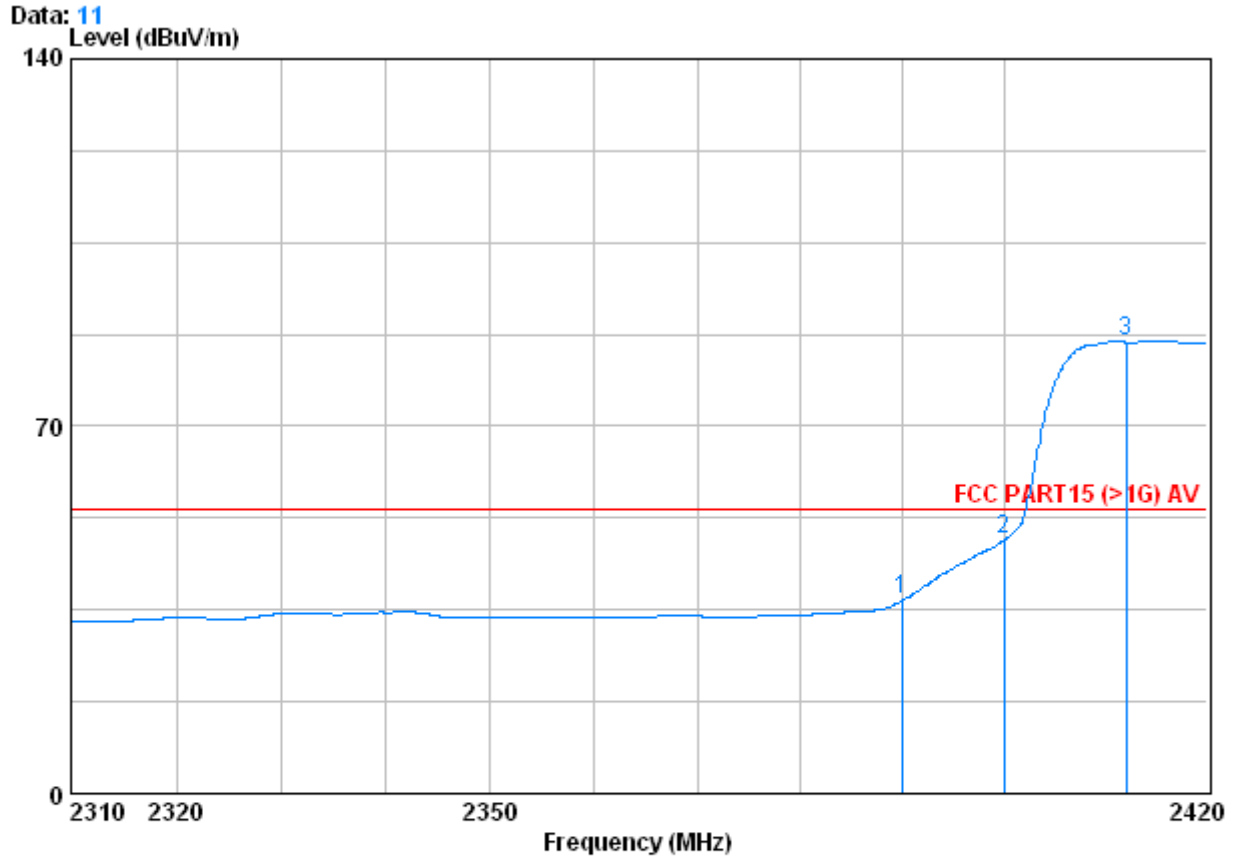


	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	62.40	58.05	74.00	-15.95
2 X	2400.000	2.98	32.51	39.86	80.58	76.21	74.00	2.21
3 X	2412.000	2.99	32.54	39.86	104.95	100.62	74.00	26.62

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Test mode:	802.11g	Test channel:	Lowest	Vertical	Average
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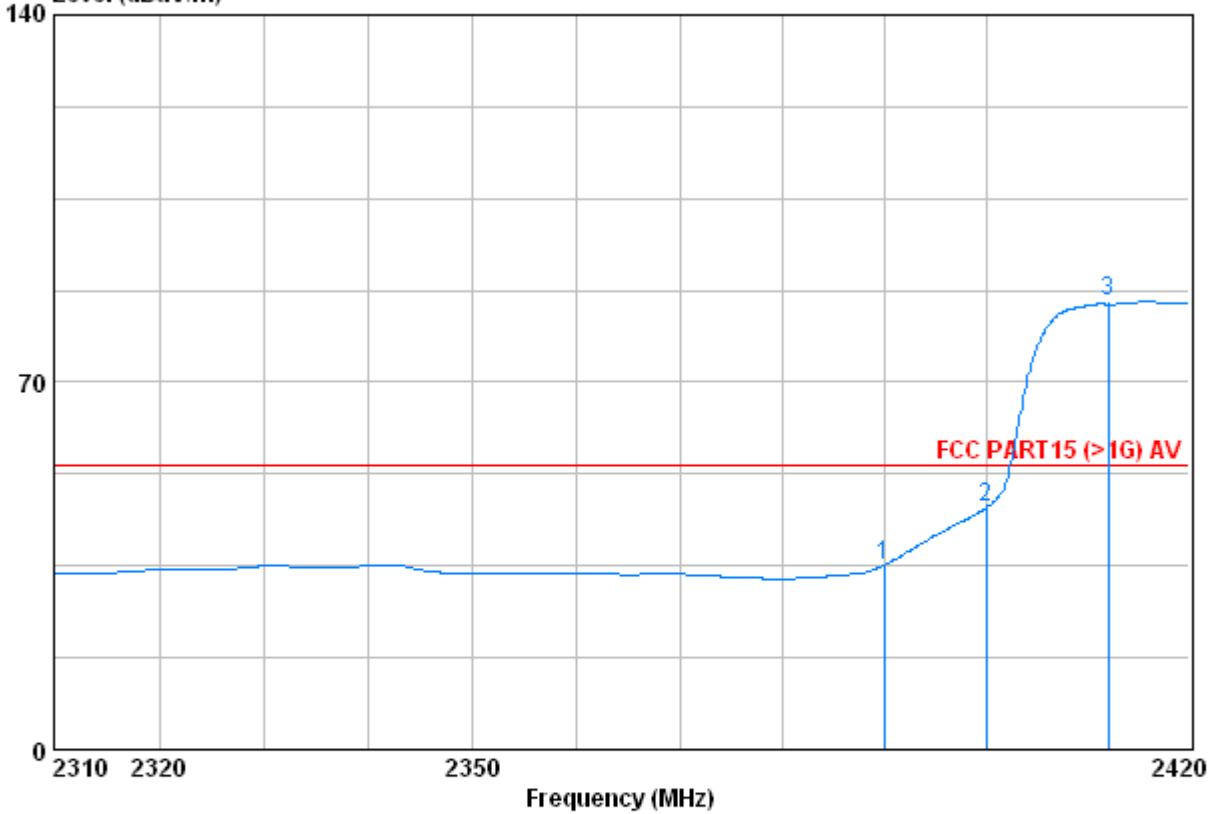
	Freq	CableAntenna Loss	Preamp Factor	Preamp	Read Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	Limit
1	2390.000	2.98	32.51	39.85	41.22	36.86	54.00 -17.14
2	2400.000	2.98	32.51	39.86	52.89	48.52	54.00 -5.48
3 X	2412.000	2.99	32.54	39.86	90.62	86.29	54.00 32.29

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Test mode:	802.11g	Test channel:	Lowest	Horizontal	Average
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Data: 12
Level (dBuV/m)

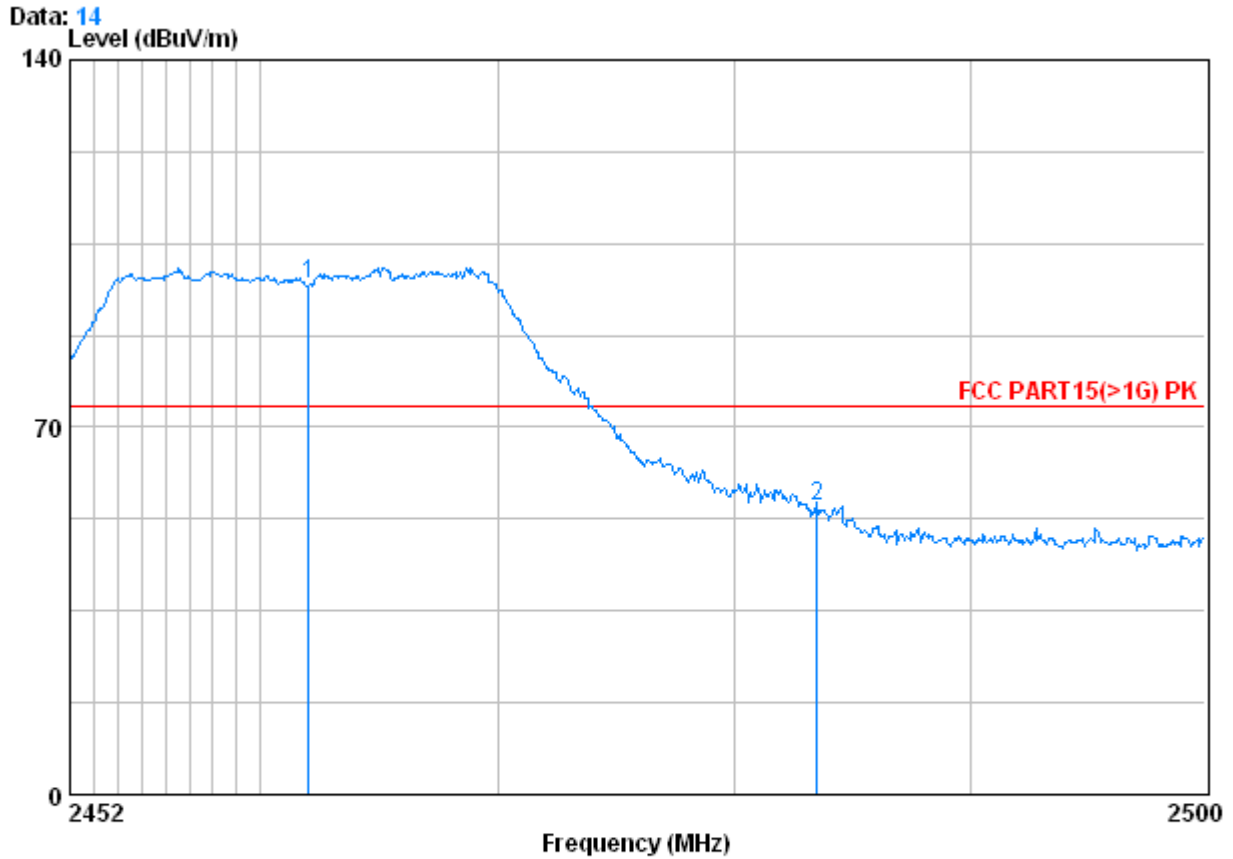


	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	39.63	35.27	54.00	-18.73
2	2400.000	2.98	32.51	39.86	50.39	46.02	54.00	-7.98
3 X	2412.000	2.99	32.54	39.86	89.71	85.38	54.00	31.38

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Test mode:	802.11g	Test channel:	Highest	Vertical	Peak
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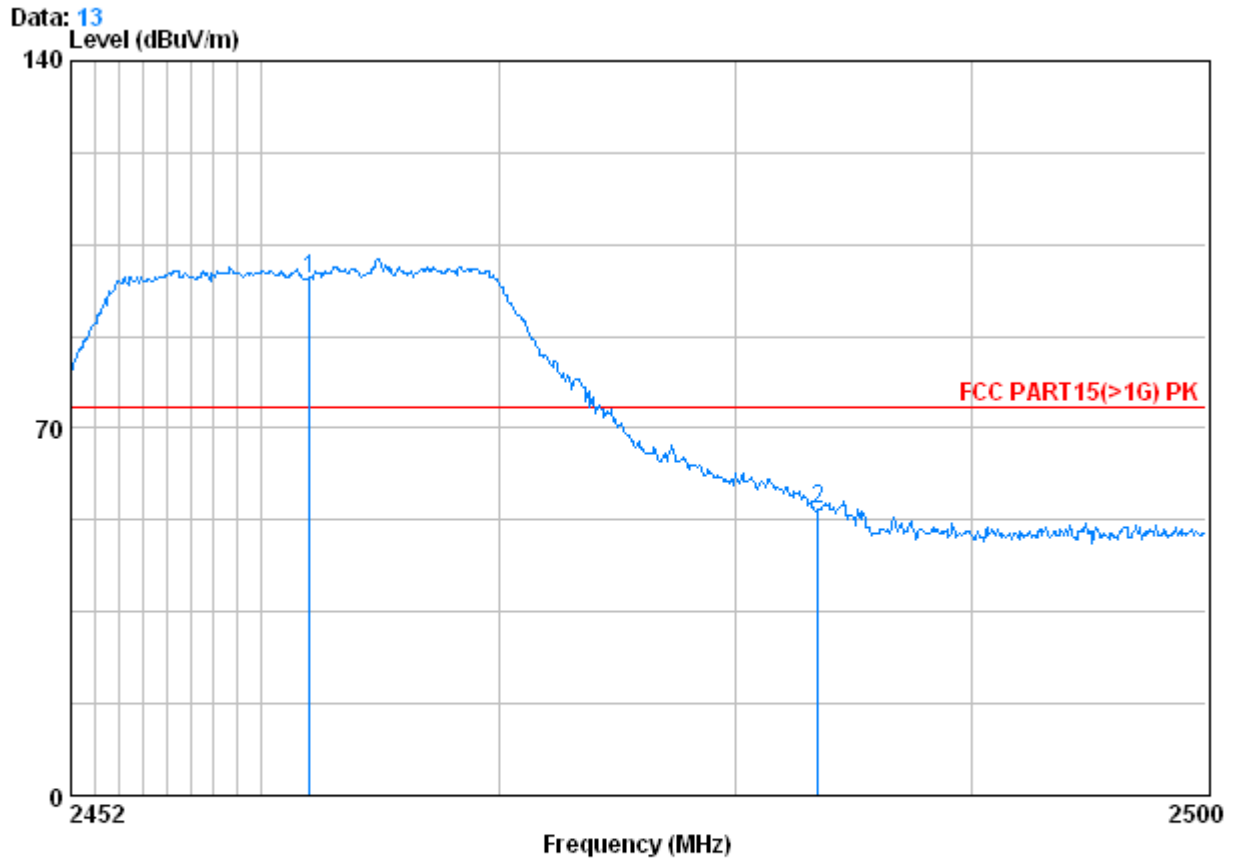


		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2462.000	3.02	32.64	39.91	101.60	97.36	74.00	23.36
2	2483.500	3.03	32.67	39.92	59.20	54.98	74.00	-19.02

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Test mode:	802.11g	Test channel:	Highest	Horizontal	Peak
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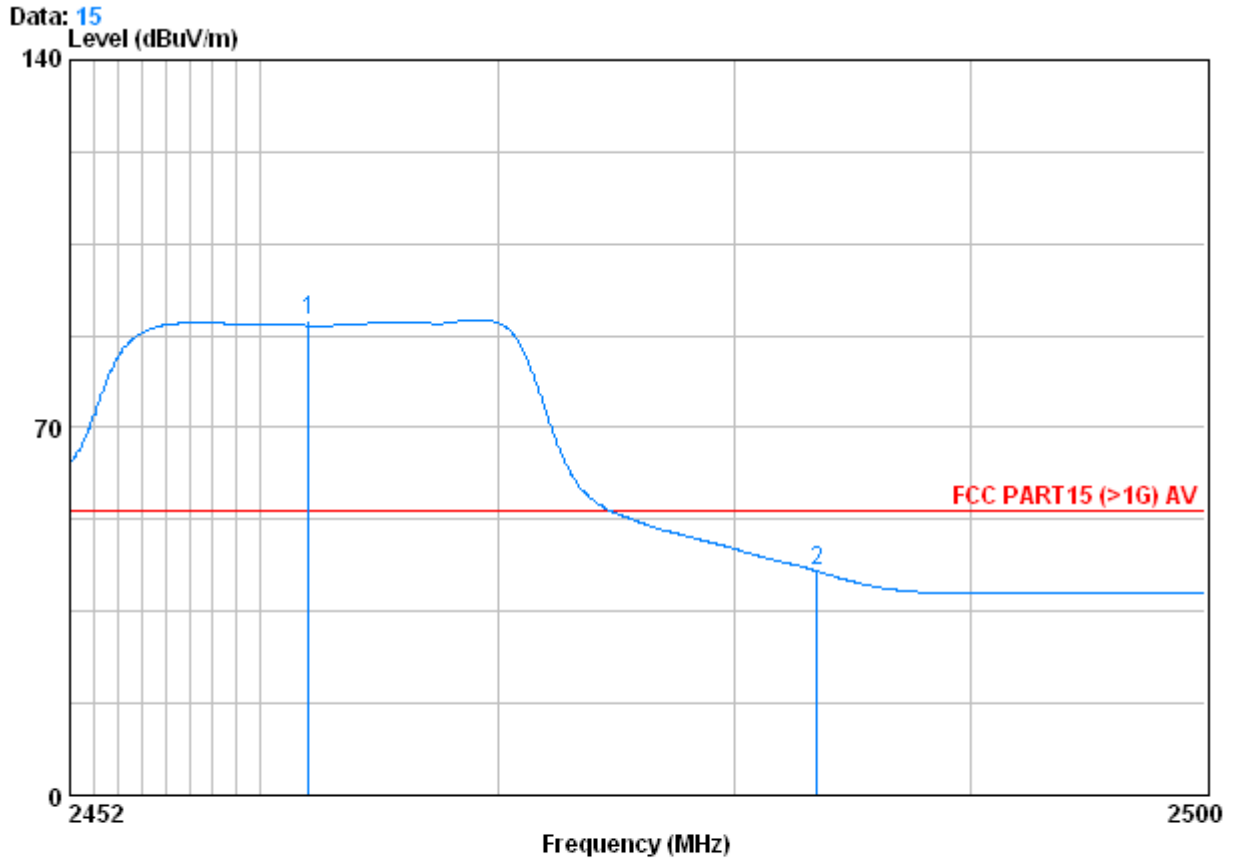


		CableAntenna	Preamp	Read	Limit	Over			
	Freq	Loss	Factor	Level	Line	Limit			
	MHz	dB	dB/m	dB	dBuV	dBuV/m			
1	X	2462.000	3.02	32.64	39.91	102.48	98.23	74.00	24.23
2		2483.500	3.03	32.67	39.92	58.68	54.47	74.00	-19.53

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Test mode:	802.11g	Test channel:	Highest	Vertical	Average
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	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		
1 @	2462.000	3.02	32.64	39.91	94.67	90.42	54.00	36.42
2	2483.500	3.03	32.67	39.92	46.88	42.66	54.00	-11.34

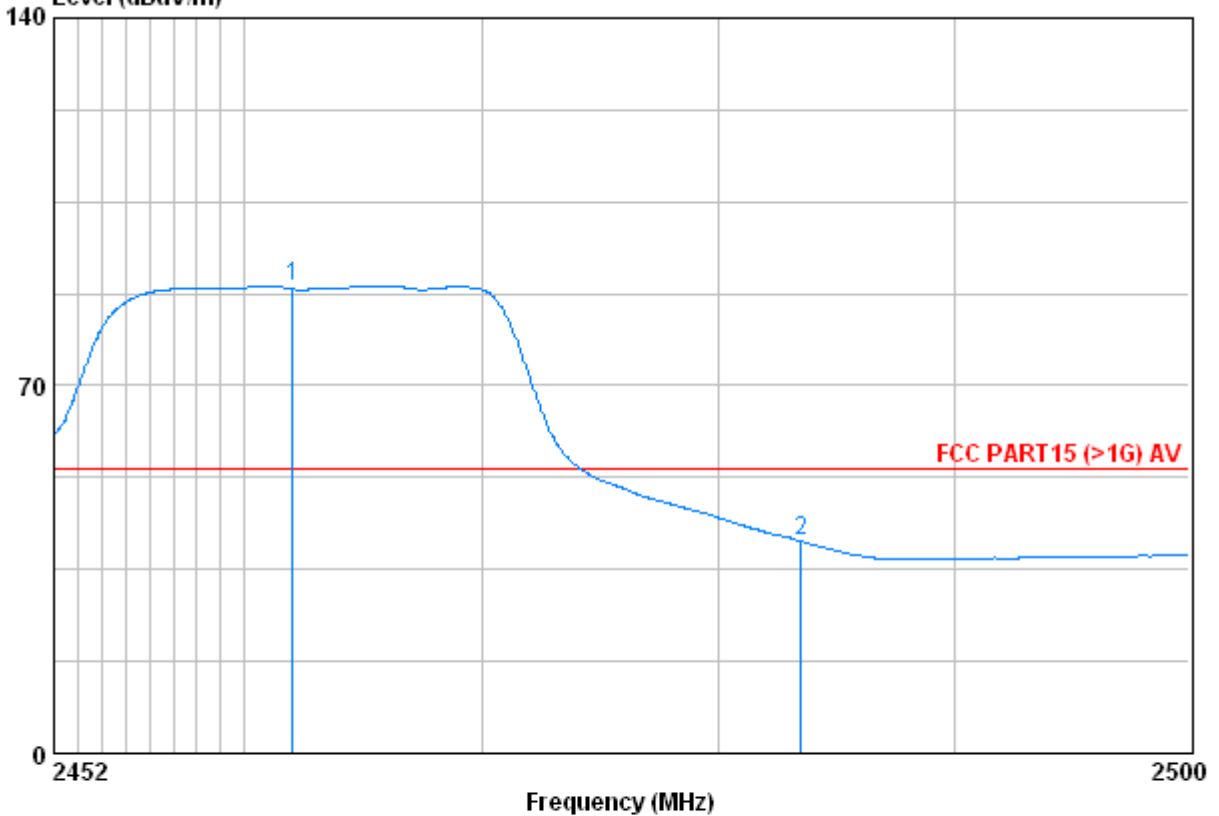


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Test mode:	802.11g	Test channel:	Highest	Horizontal	Average
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Data: 16
Level (dBuV/m)



	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	3.02	32.64	39.91	93.10	88.85	54.00	34.85
2	2483.500	3.03	32.67	39.92	44.58	40.36	54.00	-13.64

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