



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

Email: sgs_internet_operations@sgs.com

Report No.: SZEMO10050236901

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FCC REPORT

Application No:	SZEMO100502369RF
Applicant:	King Champion (Hong Kong) Ltd.
Product Name:	Internet Radio
Operation Frequency:	2412MHz~2462MHz
FCC ID:	VSAMXA10CI00001
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt:	05 May 2010
Date of Test:	11 May to 08 June 2010
Date of Issue:	22 June 2010
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang
Laboratory Manager

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3 Test Summary

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

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

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

4 General Information

4.1 Client Information

Applicant:	King Champion (Hong Kong) Ltd.
Address of Applicant:	Flat B, 12/F., Yeung Yiu Chung (No.8) Ind. Bldg., 20 Wang Hoi Road, Kowloon Bay, Hong Kong
Manufacturer:	King Champion (Hong Kong) Ltd.
Address of Manufacturer:	Flat B, 12/F., Yeung Yiu Chung (No.8) Ind. Bldg., 20 Wang Hoi Road, Kowloon Bay, Hong Kong

4.2 General Description of E.U.T

Product Name:	Internet Radio
Trade Name:	N/A
Item No.:	MXA-10C
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
Power supply:	Input: AC 100-240V 50/60Hz 0.15A MAX Output: DC 5.0V 1A

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		

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	2437MHz
The Highest channel	2462MHz

4.3 Test environment and mode

Test Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
WLAN	Keep the EUT play radio by WLAN.
LAN	Keep the EUT play radio by LAN.
Play SD card	Keep the EUT play MP3 by SD card
Play U-disk	Keep the EUT play MP3 by U-disk card.
FM	Keep the EUT play FM at 87.6MHz, 98.1MHz,108MHz
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

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)	17.45	17.79	18.00	18.05						
802.11g										
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
Power (dBm)	15.07	15.26	15.34	15.78	15.88	15.97	16.02	16.06		
Final Test Mode:										
According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup"										
11Mbps for 802.11b, 54Mbps for 802.11g										

4.4 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, June 27, 2008.

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.

4.5 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.

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2009	16-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	05-11-2009	05-11-2010
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	05-11-2009	05-11-2010
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	10-11-2009	10-11-2010
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	10-11-2009	10-11-2010
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	02-06-2010	01-06-2011
9	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	13-07-2009	13-07-2010
10	Band filter	Amindeon	82346	SEL0094	23-06-2009	23-06-2010

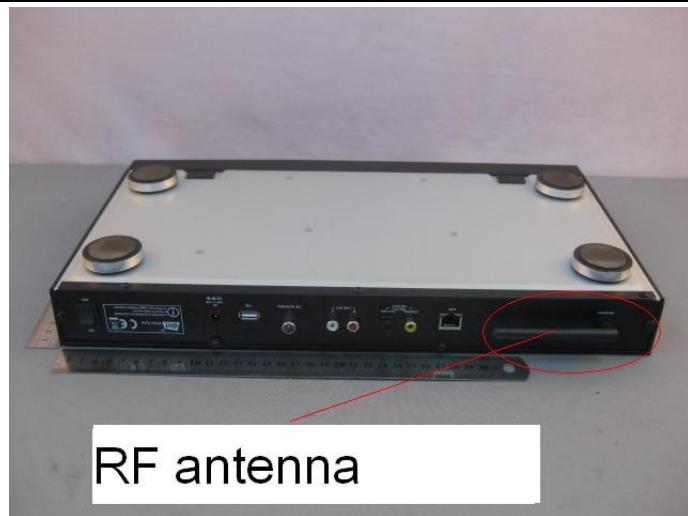
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	02-06-2010	01-06-2011
3	LISN	Schwarzbeck	NNBM 8125	SEL0119	28-07-2009	28-07-2010
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	02-06-2010	01-06-2011
5	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	18-06-2011

RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	22-10-2009	22-10-2010
2	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011

5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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>	
15.247(c) (1)(i) requirement: <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i>	

E.U.T Antenna:

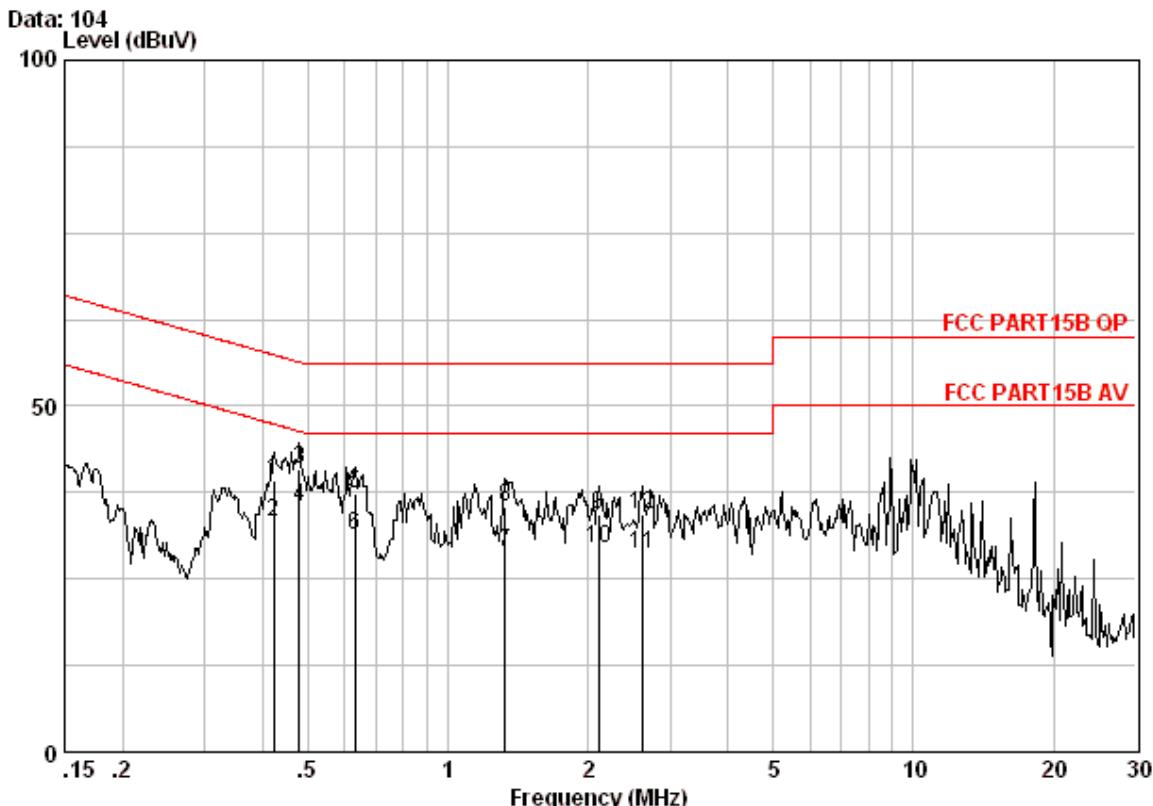
5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.4: 2003																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
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>			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															
	* Decreases with the logarithm of the frequency.																
Test procedure	<p>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 refer 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 C63.4: 2003 on conducted measurement.</p>																
Test setup:	<p>Reference Plane</p> <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 4.7 for details																
Test mode:	<p>Pre-scan was performed on the EUT in WLAN mode, LAN mode, and play SD card mode, play U-Disk mode</p> <p>Only the WLAN mode and the play U-Disk mode which was the worst case were displayed as below.</p>																
Test results:	Passed																

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

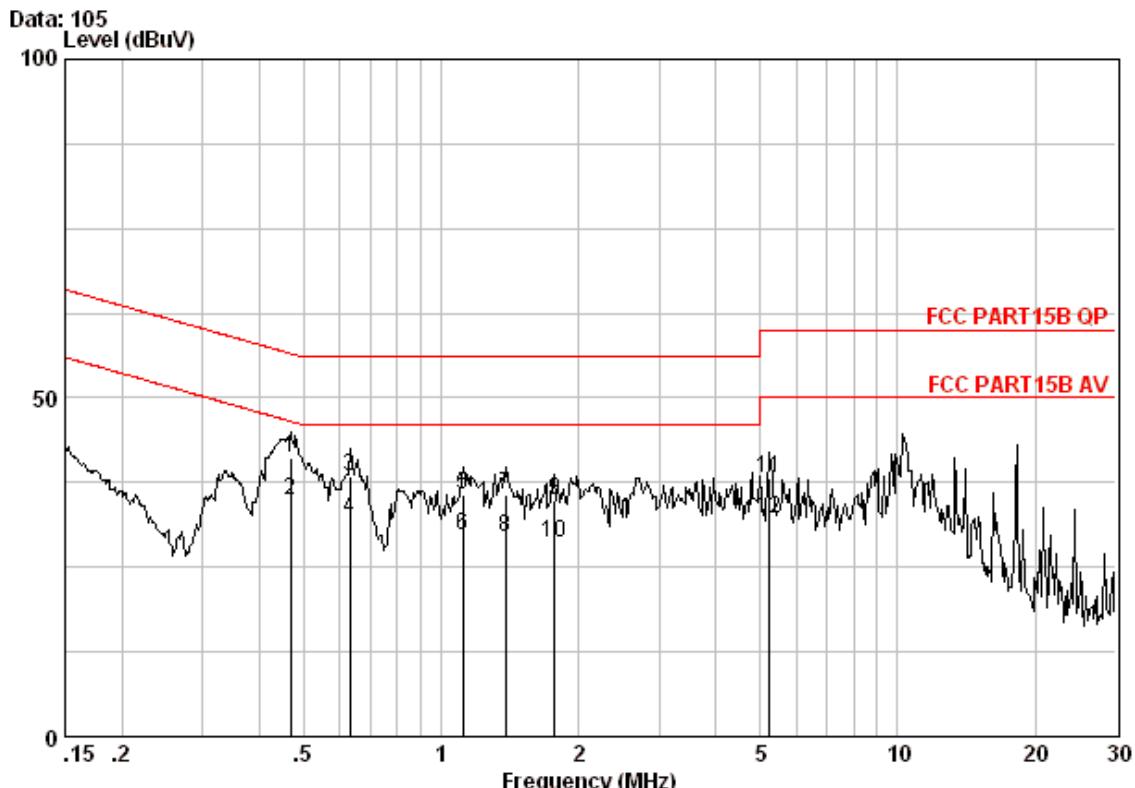
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

WLAN mode:
Live Line:


	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.42149	0.06	-0.04	39.23	39.25	57.42	-18.17 QP
2	0.42149	0.06	-0.04	33.23	33.25	47.42	-14.17 Average
3	0.47865	0.06	-0.04	40.72	40.74	56.36	-15.63 QP
4	0.47865	0.06	-0.04	35.40	35.42	46.36	-10.95 Average
5	0.63048	0.06	-0.05	37.20	37.22	56.00	-18.78 QP
6	0.63048	0.06	-0.05	31.20	31.22	46.00	-14.78 Average
7	1.324	0.10	-0.05	28.90	28.94	46.00	-17.06 Average
8	1.324	0.10	-0.05	35.35	35.39	56.00	-20.61 QP
9	2.110	0.12	-0.06	34.29	34.35	56.00	-21.65 QP
10	2.110	0.12	-0.06	29.29	29.35	46.00	-16.65 Average
11	2.608	0.13	-0.07	28.50	28.56	46.00	-17.44 Average
12	2.608	0.13	-0.07	34.23	34.29	56.00	-21.71 QP

Notes:

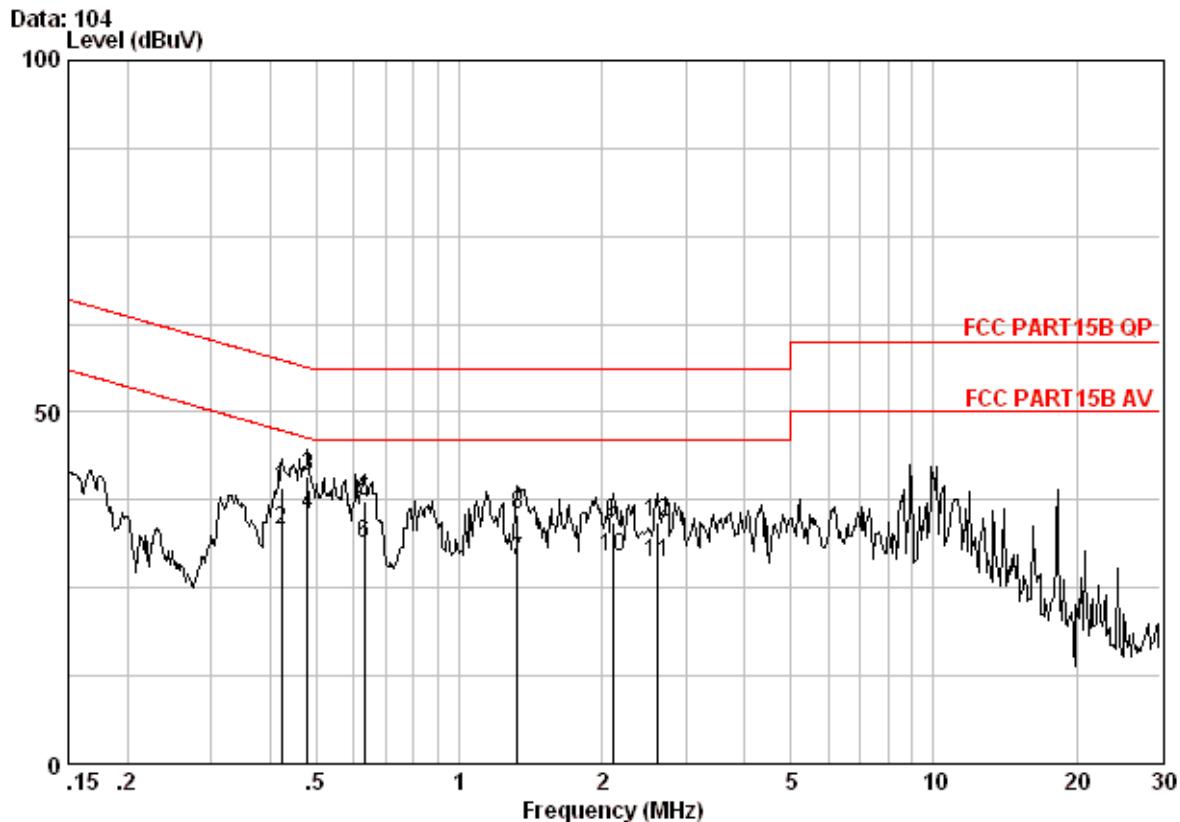
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

Neutral Line:

Freq	Cable Loss	LISN Factor	Read Level	Limit		Over Line	Remark
				MHz	dBuV	dBuV	dB
1 0	0.46861	0.06	-0.04	40.99	41.01	56.54	-15.53 QP
2 0	0.46861	0.06	-0.04	34.99	35.01	46.54	-11.53 Average
3 0	0.63048	0.06	-0.04	38.35	38.37	56.00	-17.63 QP
4 0	0.63048	0.06	-0.04	32.10	32.12	46.00	-13.88 Average
5	1.117	0.09	-0.05	35.77	35.80	56.00	-20.20 QP
6 0	1.117	0.09	-0.05	29.77	29.80	46.00	-16.20 Average
7	1.381	0.10	-0.05	35.67	35.72	56.00	-20.28 QP
8 0	1.381	0.10	-0.05	29.40	29.45	46.00	-16.55 Average
9	1.772	0.11	-0.06	34.77	34.82	56.00	-21.18 QP
10 0	1.772	0.11	-0.06	28.50	28.55	46.00	-17.45 Average
11	5.249	0.17	-0.13	37.99	38.04	60.00	-21.96 QP
12	5.249	0.17	-0.13	31.99	32.04	50.00	-17.96 Average

Notes:

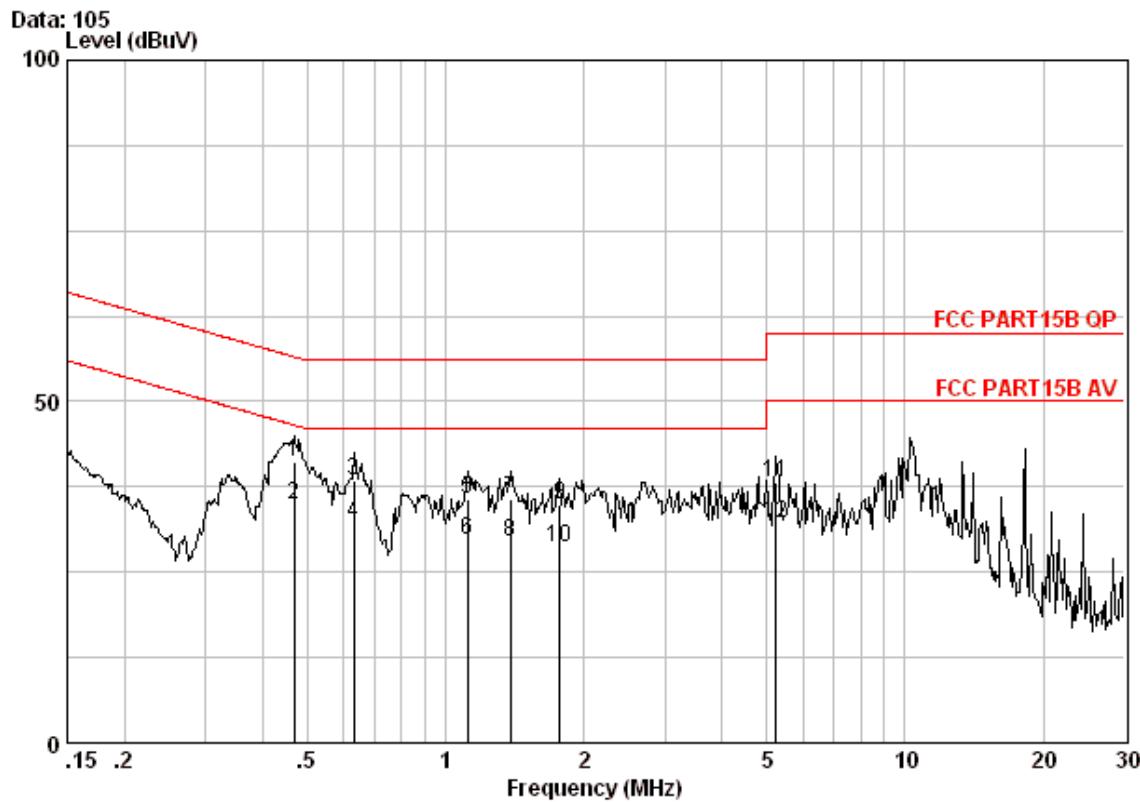
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

Play U-Disk mode:**Live Line:**

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dB
1	0.42149	0.06	-0.04	39.23	39.25	57.42 -18.17 QP
2	0.42149	0.06	-0.04	33.23	33.25	47.42 -14.17 Average
3	0.47865	0.06	-0.04	40.72	40.74	56.36 -15.63 QP
4	0.47865	0.06	-0.04	35.40	35.42	46.36 -10.95 Average
5	0.63048	0.06	-0.05	37.20	37.22	56.00 -18.78 QP
6	0.63048	0.06	-0.05	31.20	31.22	46.00 -14.78 Average
7	1.324	0.10	-0.05	28.90	28.94	46.00 -17.06 Average
8	1.324	0.10	-0.05	35.35	35.39	56.00 -20.61 QP
9	2.110	0.12	-0.06	34.29	34.35	56.00 -21.65 QP
10	2.110	0.12	-0.06	29.29	29.35	46.00 -16.65 Average
11	2.608	0.13	-0.07	28.50	28.56	46.00 -17.44 Average
12	2.608	0.13	-0.07	34.23	34.29	56.00 -21.71 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.

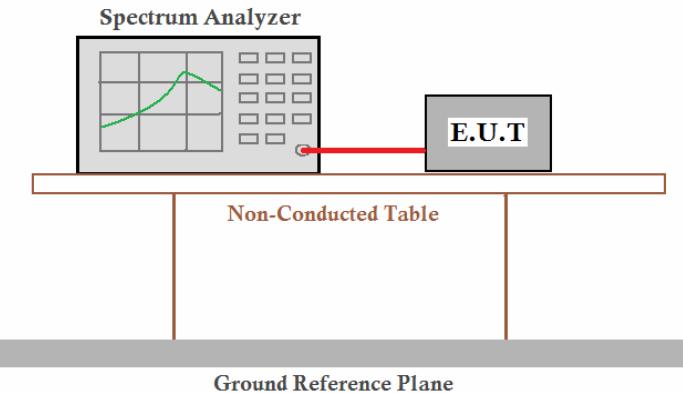
Neutral Line:

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Loss	Factor	Level				
	MHz	dB	dB	dBuV	dBuV	dB	
1	0	0.46861	0.06	-0.04	40.99	41.01	56.54 -15.53 QP
2	0	0.46861	0.06	-0.04	34.99	35.01	46.54 -11.53 Average
3	0	0.63048	0.06	-0.04	38.35	38.37	56.00 -17.63 QP
4	0	0.63048	0.06	-0.04	32.10	32.12	46.00 -13.88 Average
5		1.117	0.09	-0.05	35.77	35.80	56.00 -20.20 QP
6	0	1.117	0.09	-0.05	29.77	29.80	46.00 -16.20 Average
7		1.381	0.10	-0.05	35.67	35.72	56.00 -20.28 QP
8	0	1.381	0.10	-0.05	29.40	29.45	46.00 -16.55 Average
9		1.772	0.11	-0.06	34.77	34.82	56.00 -21.18 QP
10	0	1.772	0.11	-0.06	28.50	28.55	46.00 -17.45 Average
11		5.249	0.17	-0.13	37.99	38.04	60.00 -21.96 QP
12		5.249	0.17	-0.13	31.99	32.04	50.00 -17.96 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.

5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	 <p>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

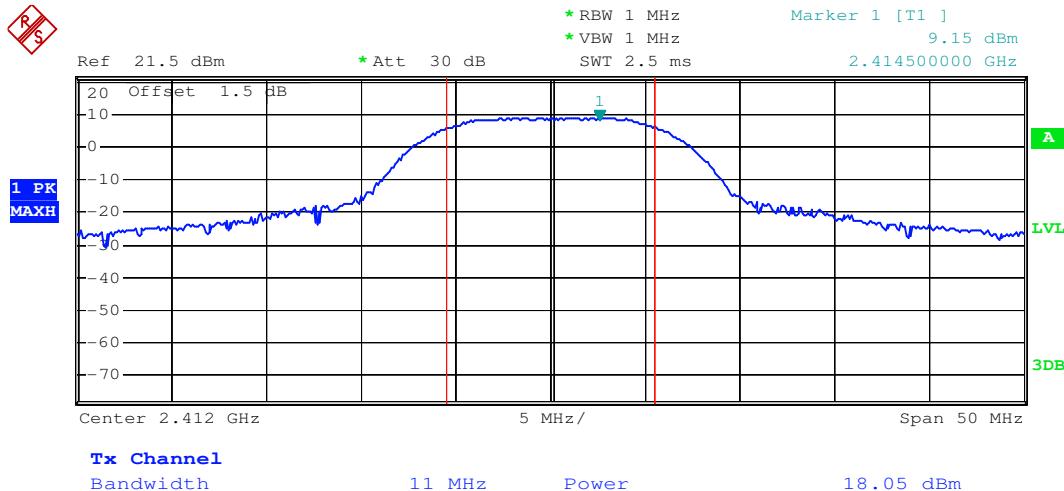
Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	18.05	30.00	Pass
Middle	16.28	30.00	Pass
Highest	17.64	30.00	Pass

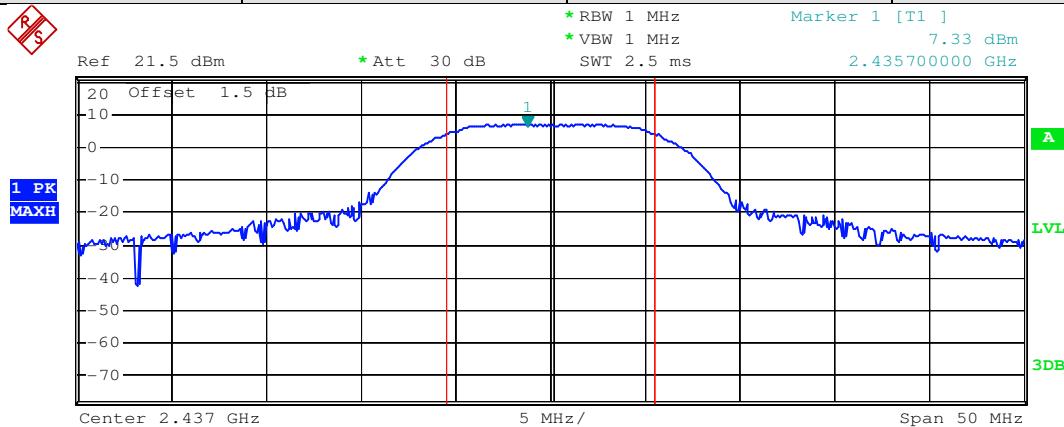
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	16.06	30.00	Pass
Middle	15.60	30.00	Pass
Highest	16.99	30.00	Pass

Test plot as follows:

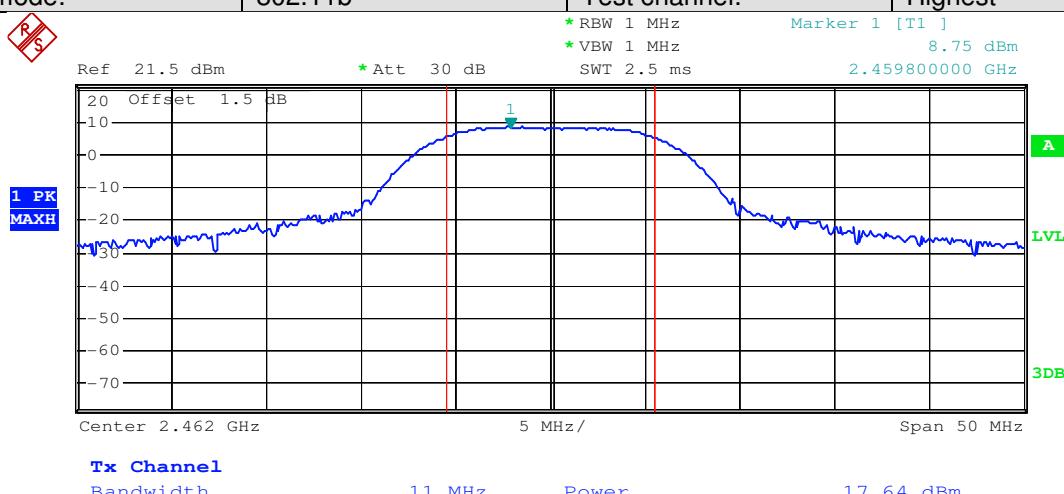
Test mode:	802.11b	Test channel:	Lowest
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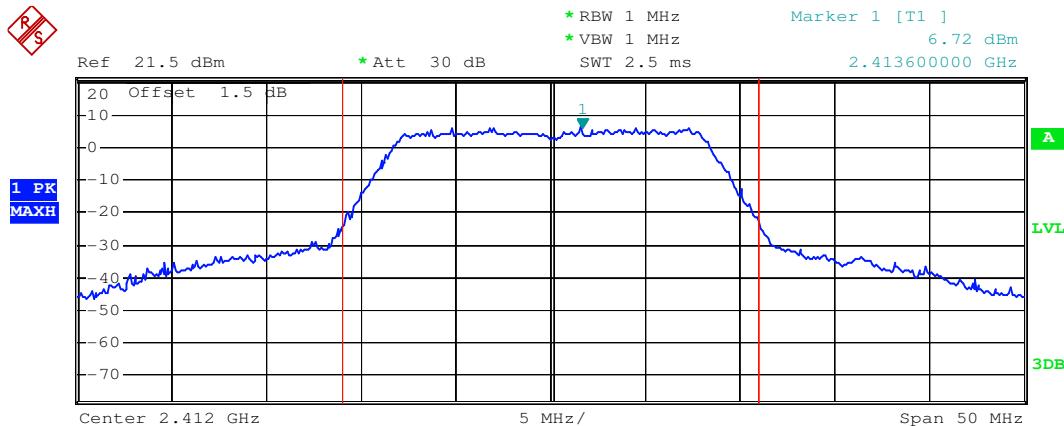
Test mode:	802.11b	Test channel:	Middle
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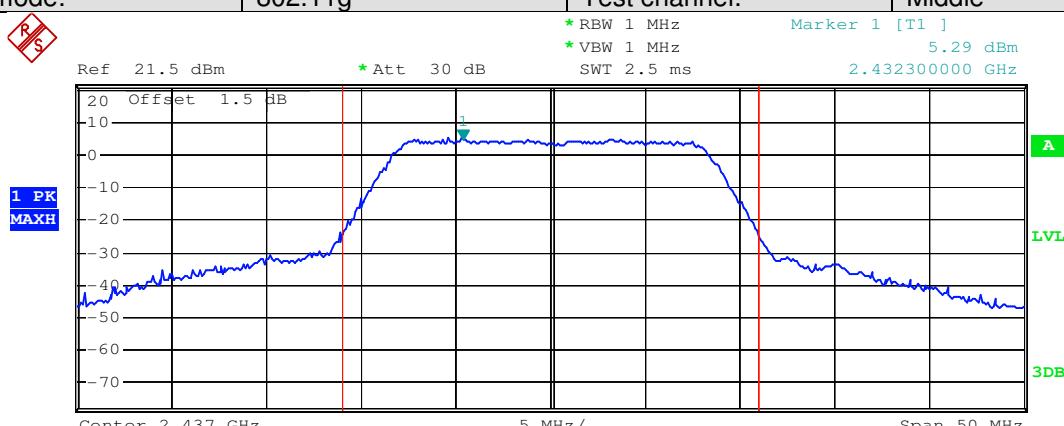
Test mode:	802.11b	Test channel:	Highest
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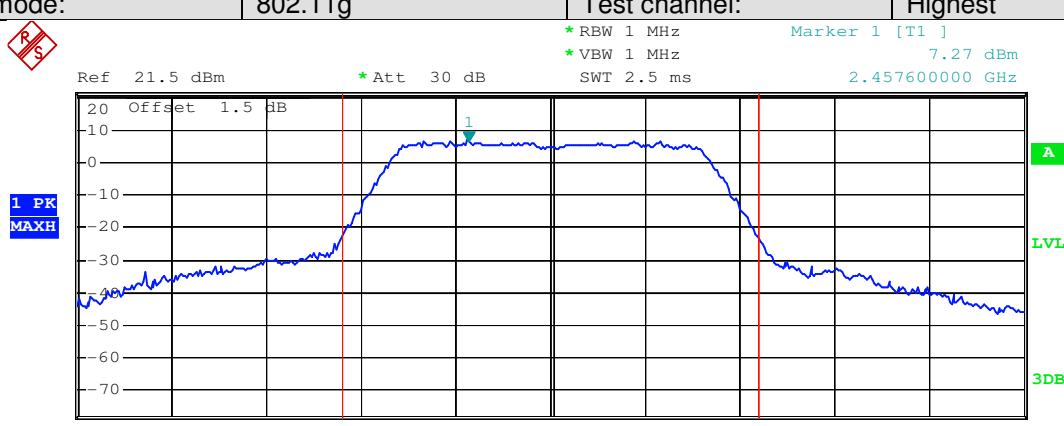
Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Middle
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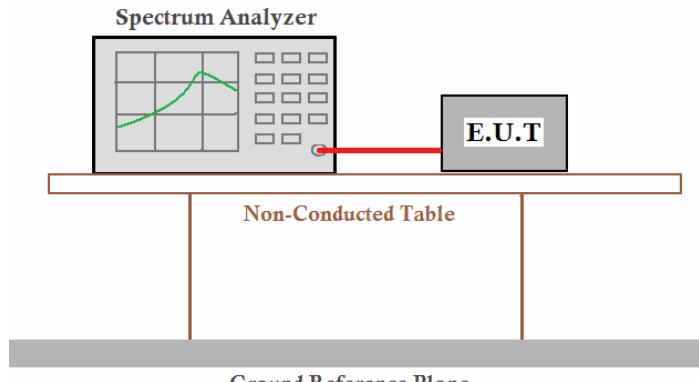


Test mode:	802.11g	Test channel:	Highest
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Tx Channel
Bandwidth 22 MHz **Power** 16.99 dBm

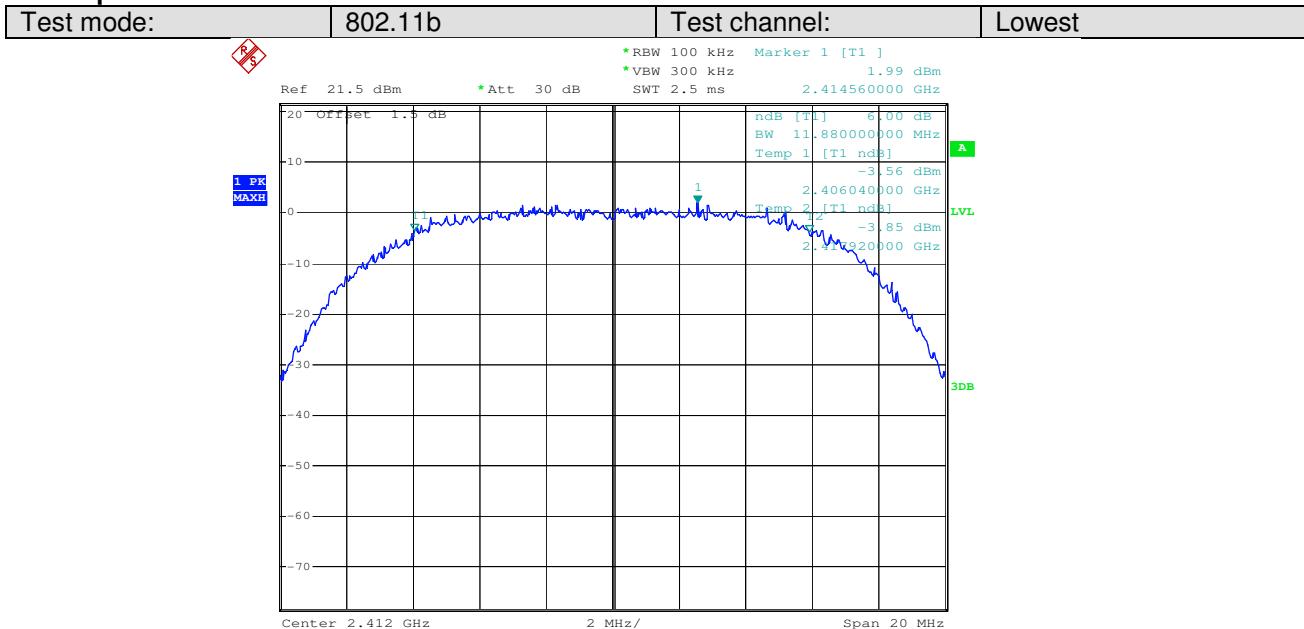
5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

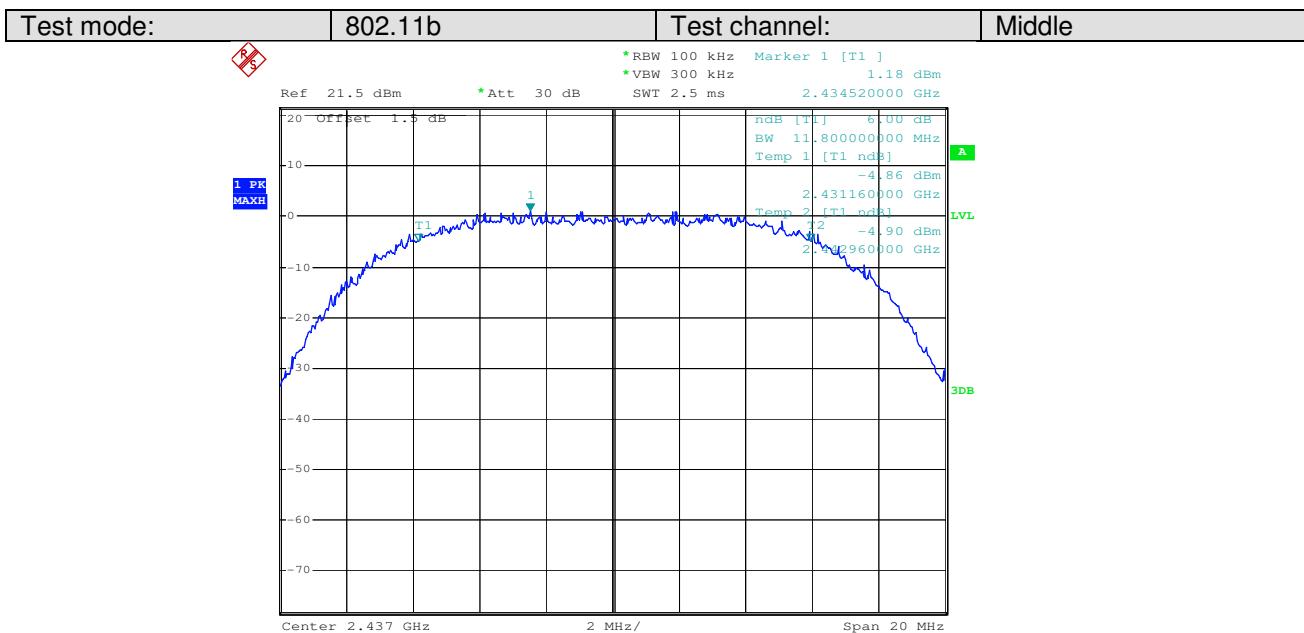
Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	11.88	>500	Pass
Middle	11.80	>500	Pass
Highest	11.44	>500	Pass

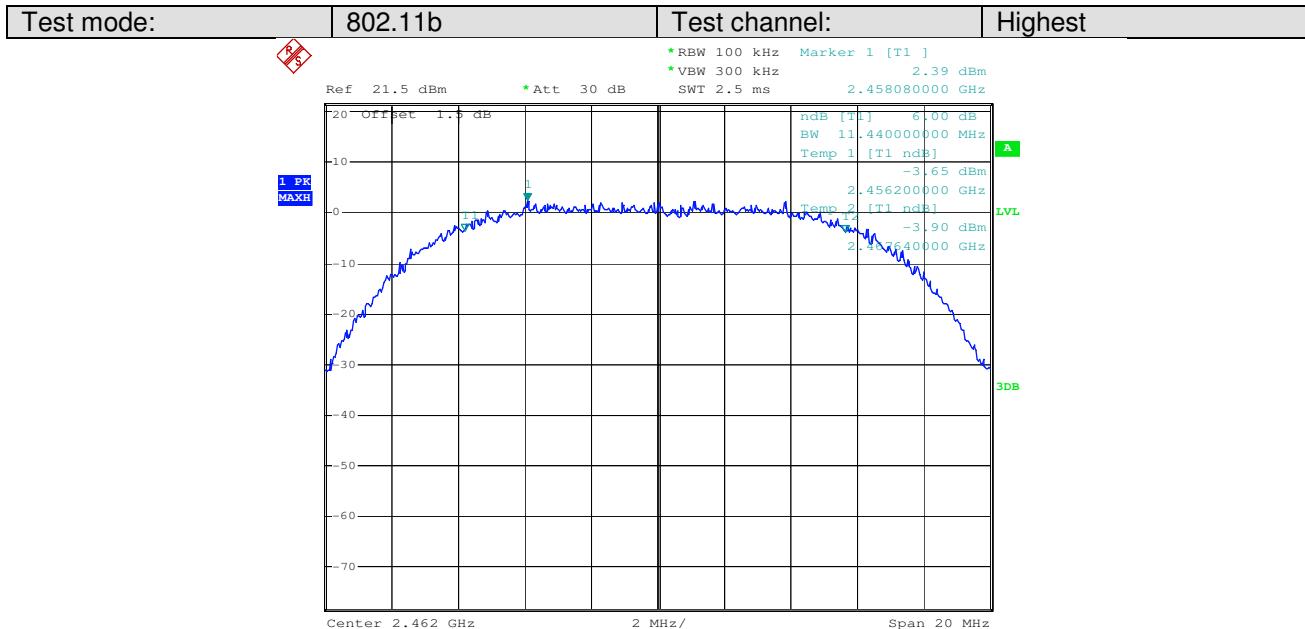
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	16.60	>500	Pass
Middle	16.64	>500	Pass
Highest	16.56	>500	Pass

Test plot as follows:


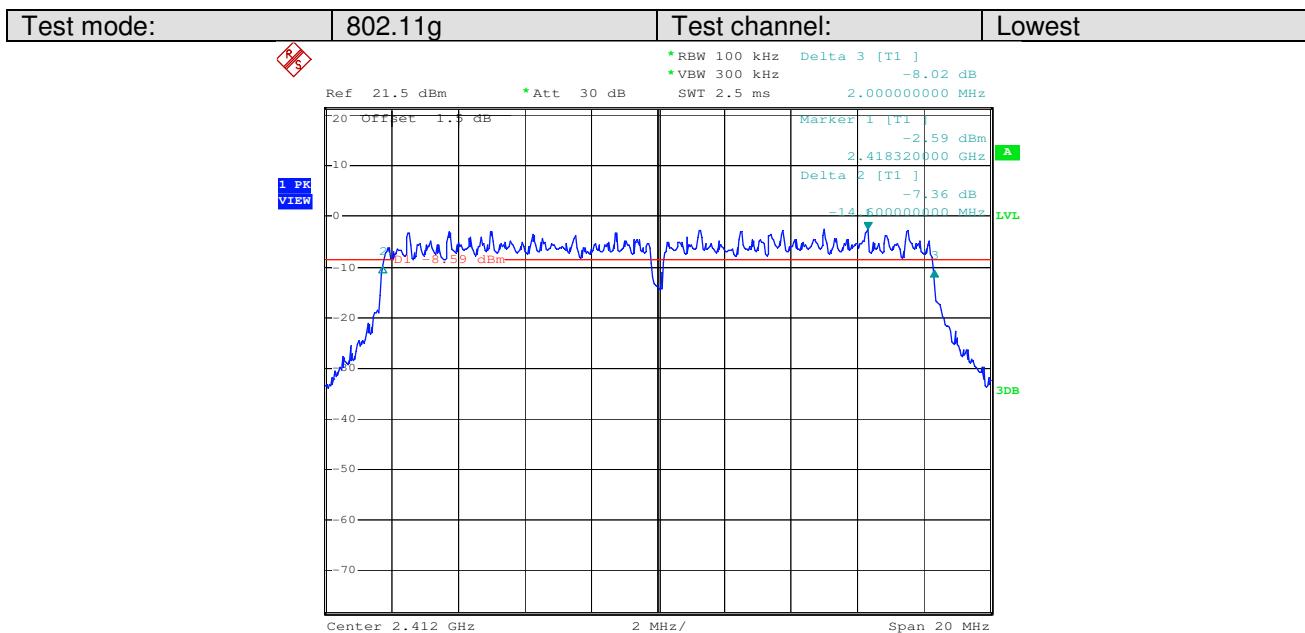
Date: 12.MAY.2010 10:29:36



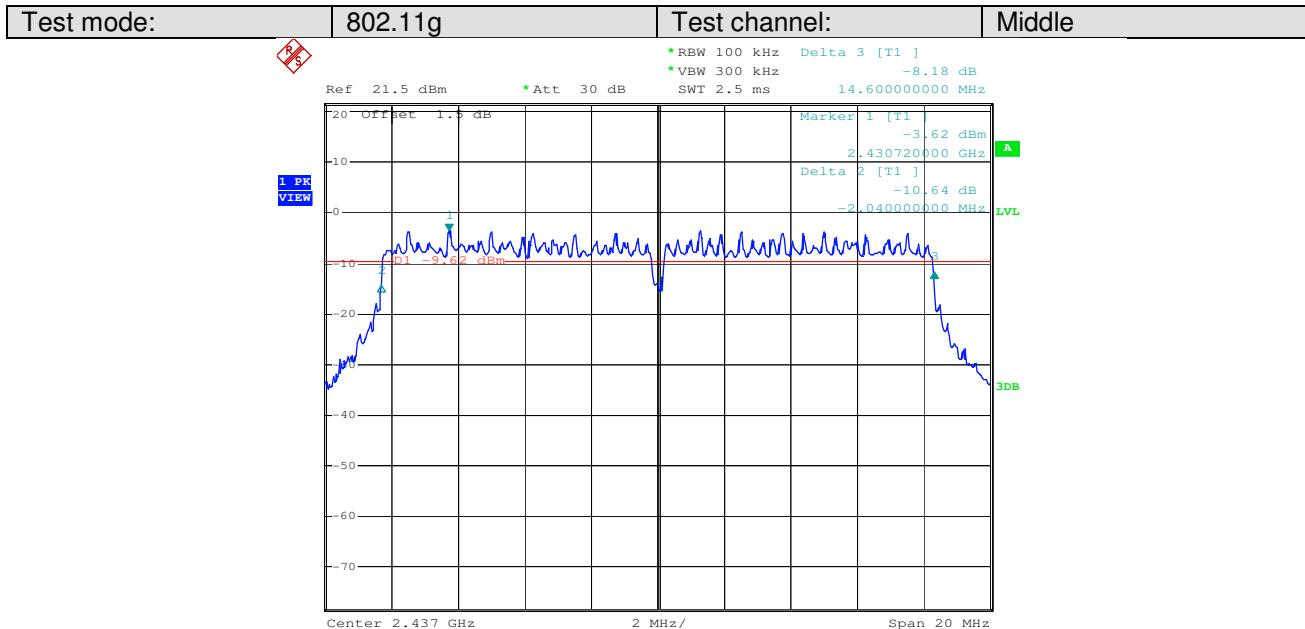
Date: 12.MAY.2010 10:24:12



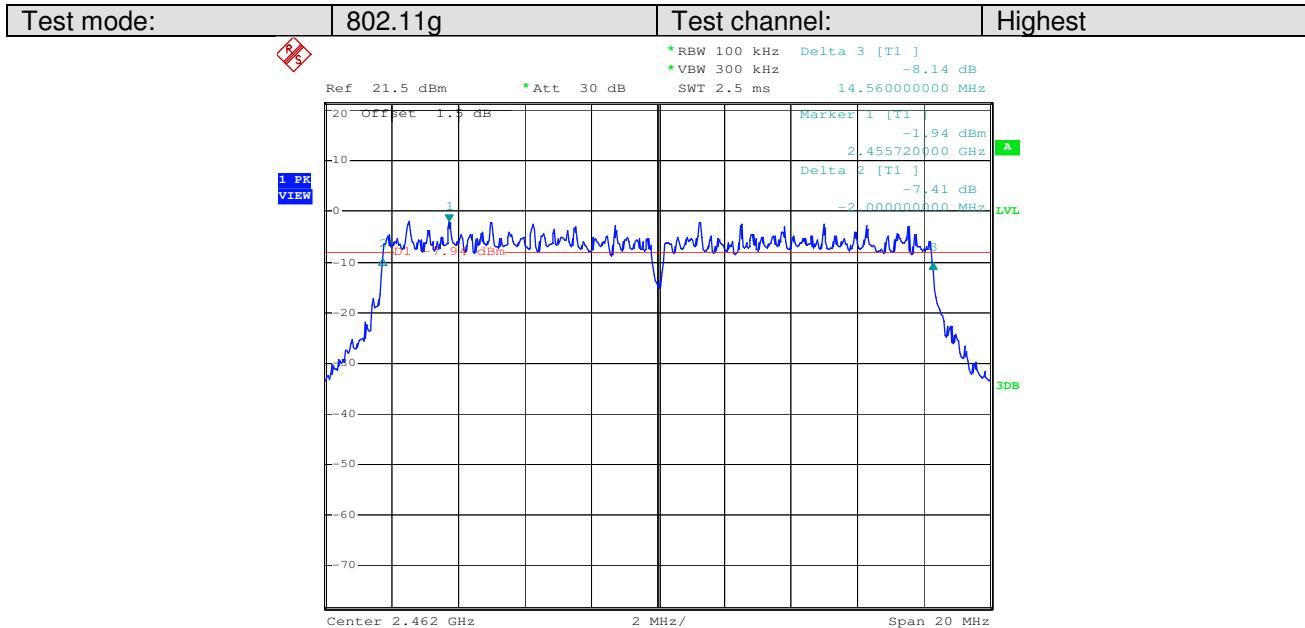
Date: 12.MAY.2010 10:32:25



Date: 12.MAY.2010 11:14:11

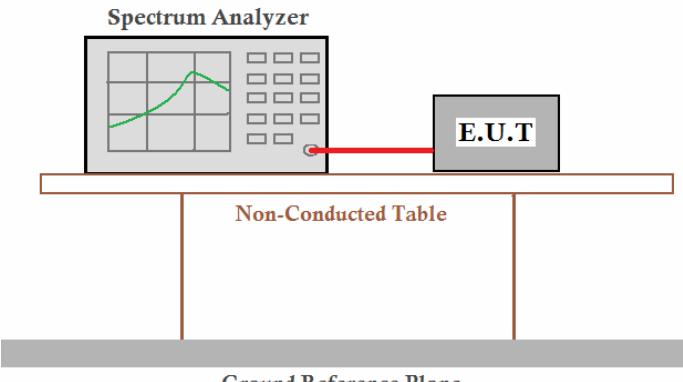


Date: 12.MAY.2010 11:01:30



Date: 12.MAY.2010 10:51:54

5.5 Power Spectral Density

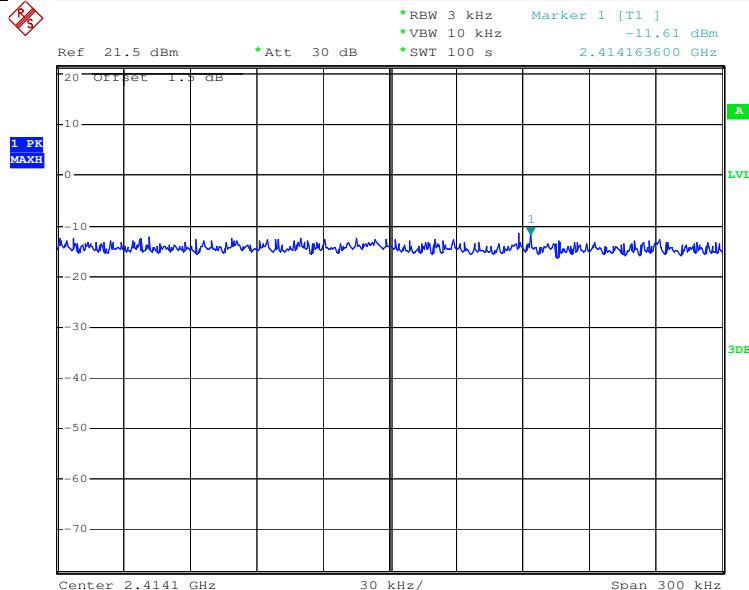
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	<8dBm
Test setup:	 <p>Remark: <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-11.61	<8.00	Pass
Middle	-12.69	<8.00	Pass
Highest	-10.71	<8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-15.09	<8.00	Pass
Middle	-18.13	<8.00	Pass
Highest	-16.37	<8.00	Pass

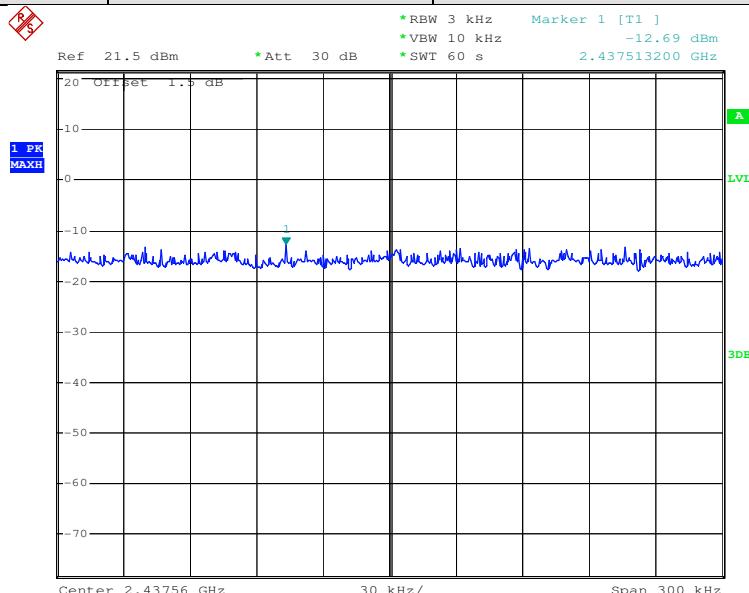
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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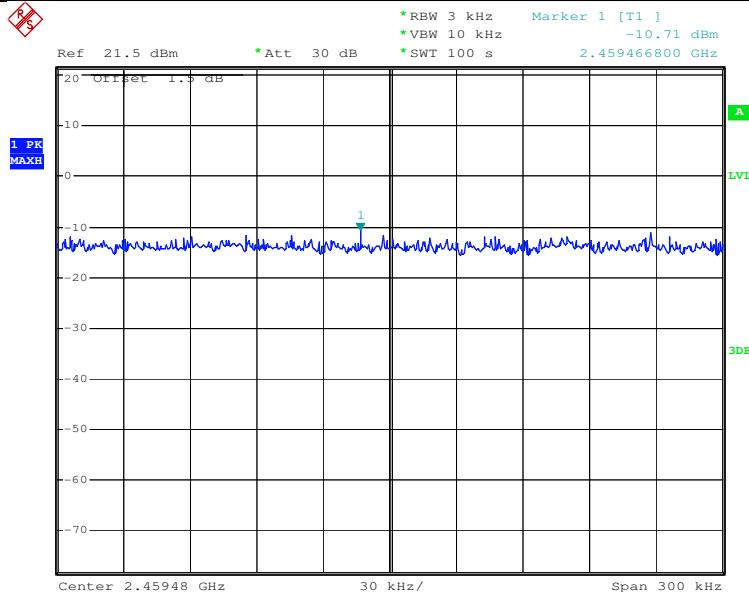
Date: 12.MAY.2010 10:20:19

Test mode:	802.11b	Test channel:	Middle
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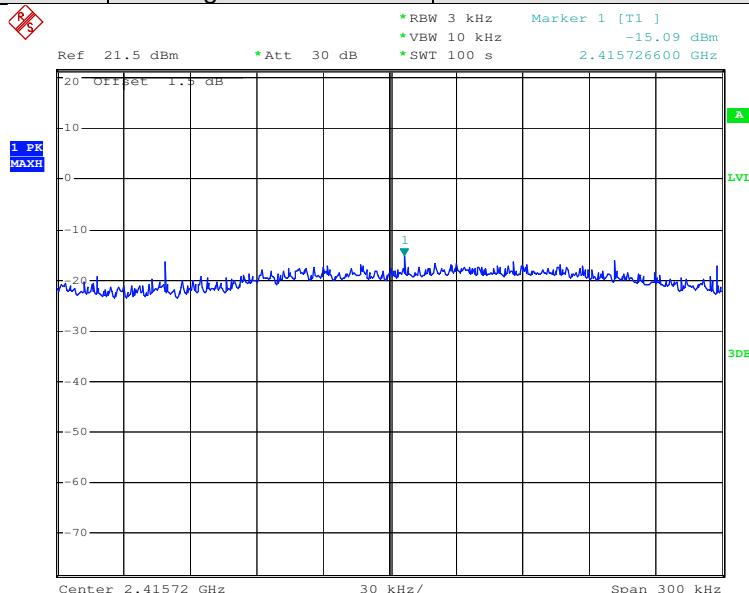
Date: 12.MAY.2010 10:28:22

Test mode:	802.11b	Test channel:	Highest
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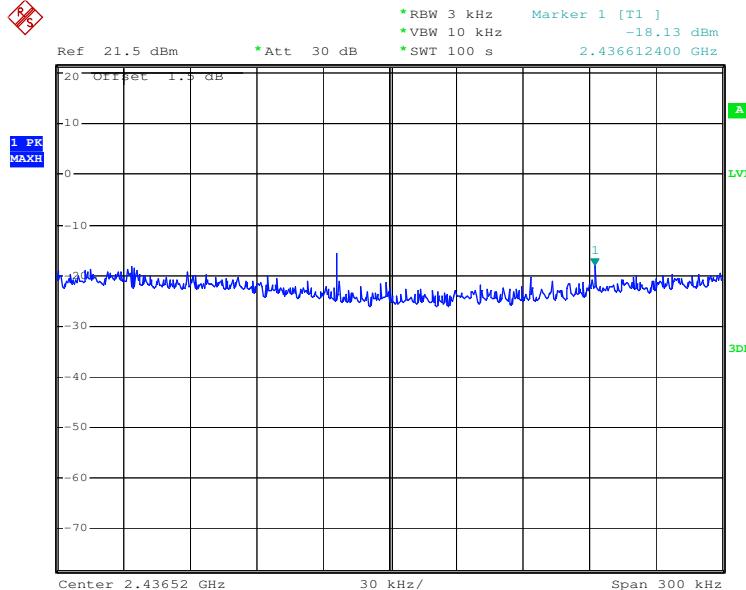
Date: 12.MAY.2010 10:40:18

Test mode:	802.11g	Test channel:	Lowest
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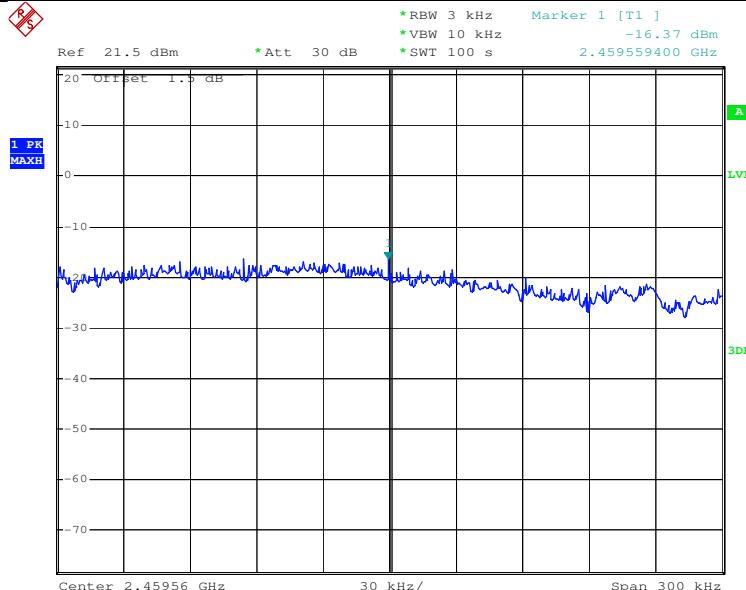
Date: 12.MAY.2010 11:43:28

Test mode:	802.11g	Test channel:	Middle
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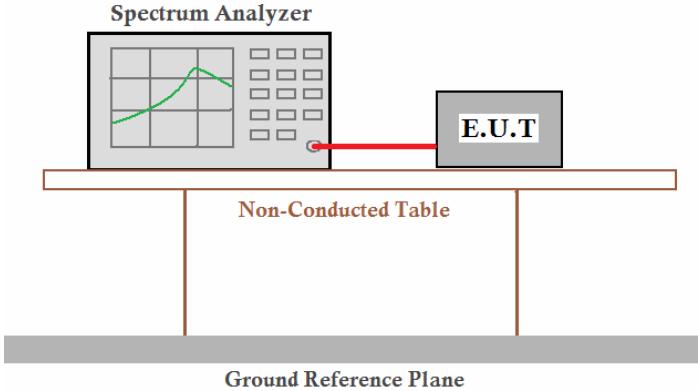
Date: 12.MAY.2010 11:09:33

Test mode:	802.11g	Test channel:	Highest
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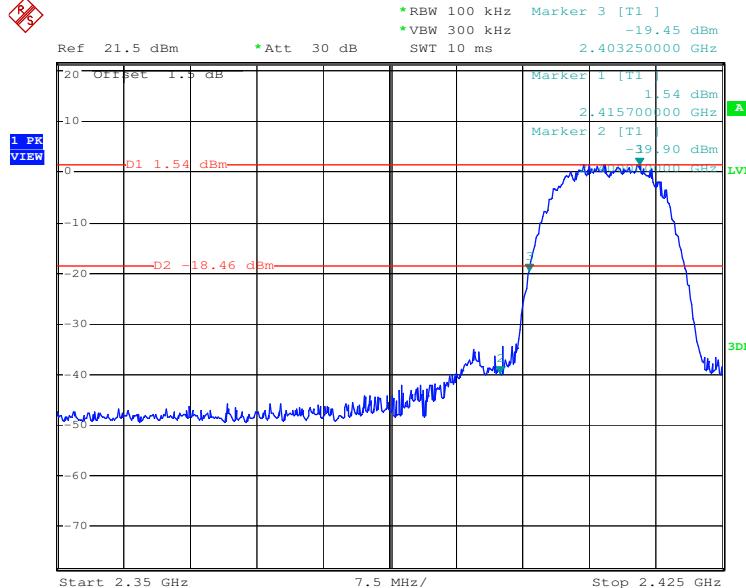
Date: 12.MAY.2010 10:47:22

5.6 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
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>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

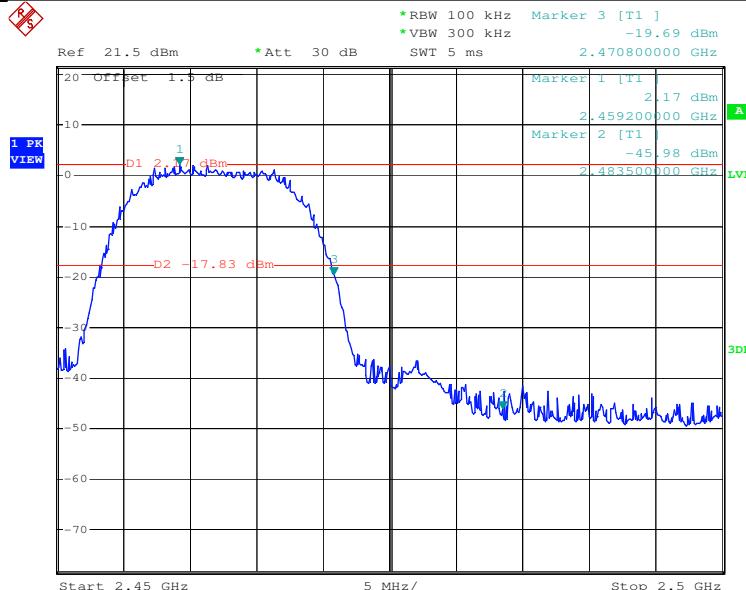
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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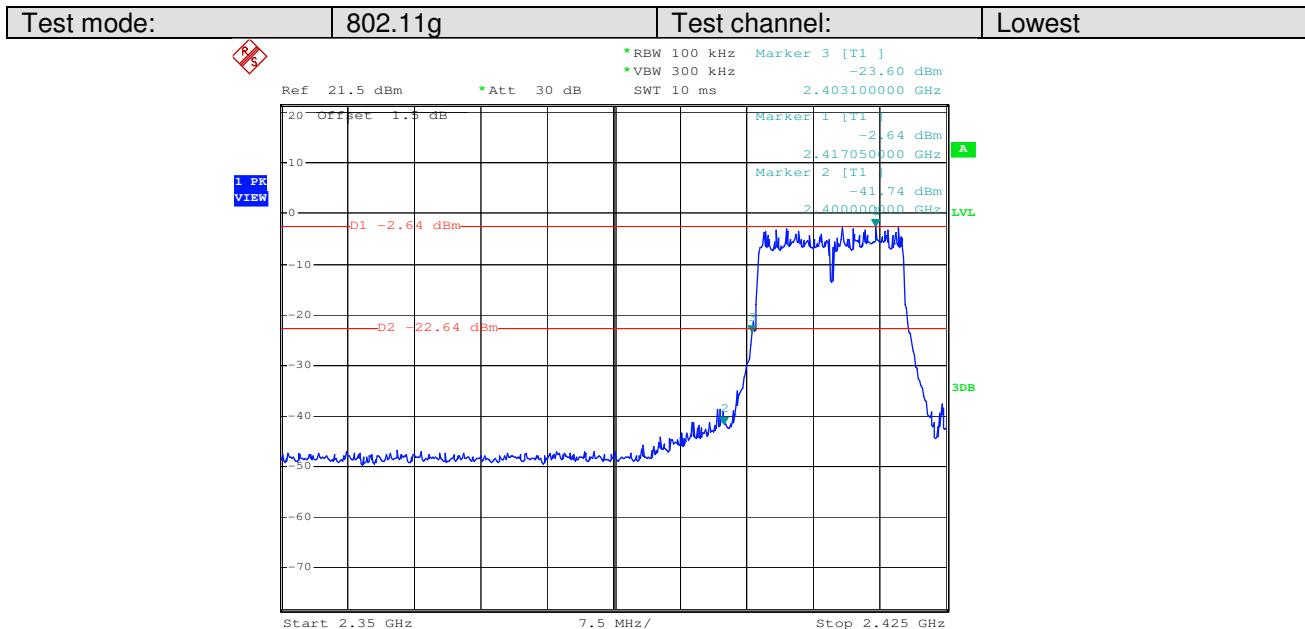


Date: 12.MAY.2010 09:59:43

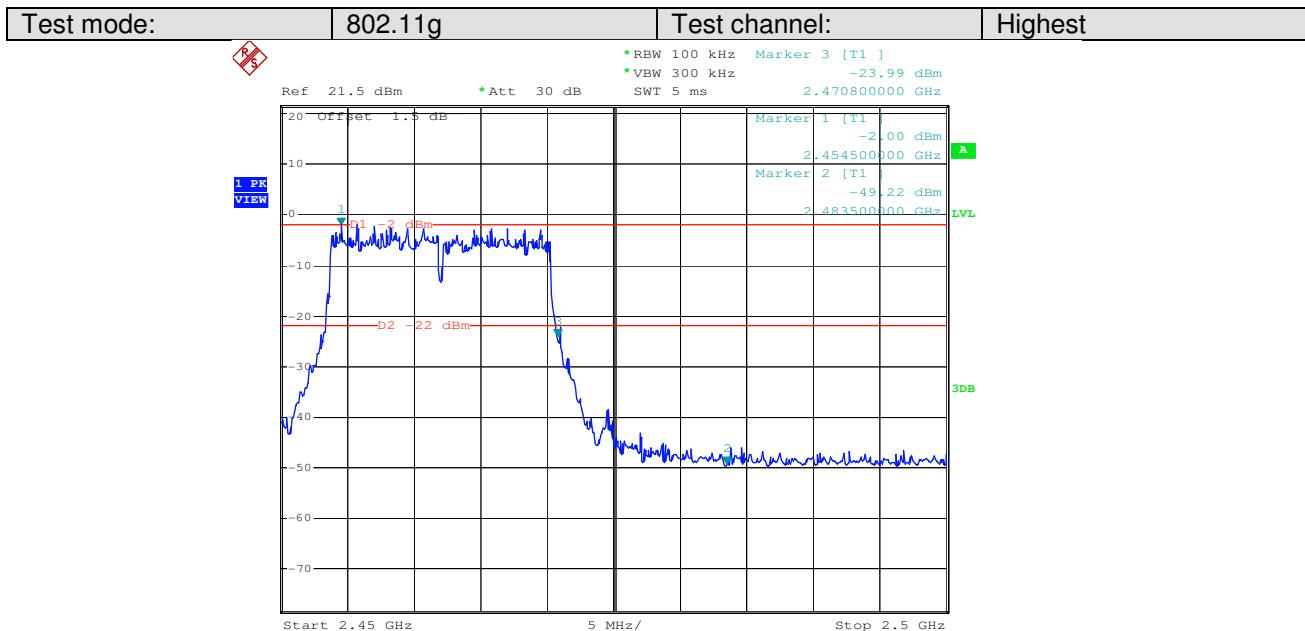
Test mode:	802.11b	Test channel:	Highest
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Date: 12.MAY.2010 10:34:00

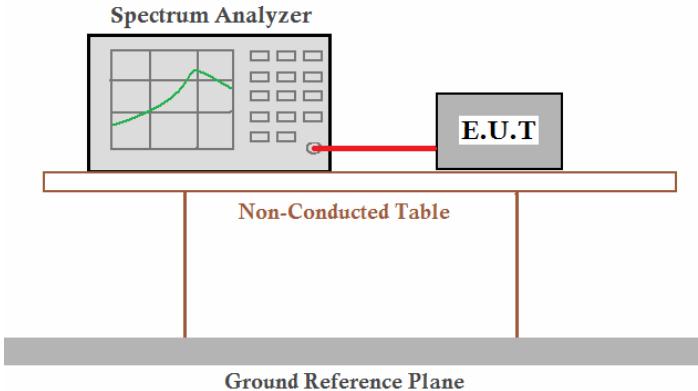


Date: 12.MAY.2010 11:15:25



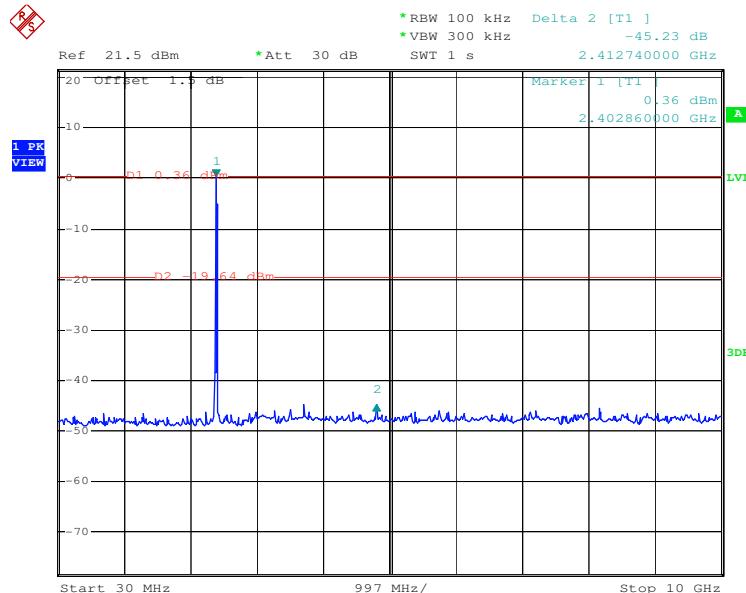
Date: 12.MAY.2010 10:54:32

5.7 RF Antenna Conducted spurious emissions

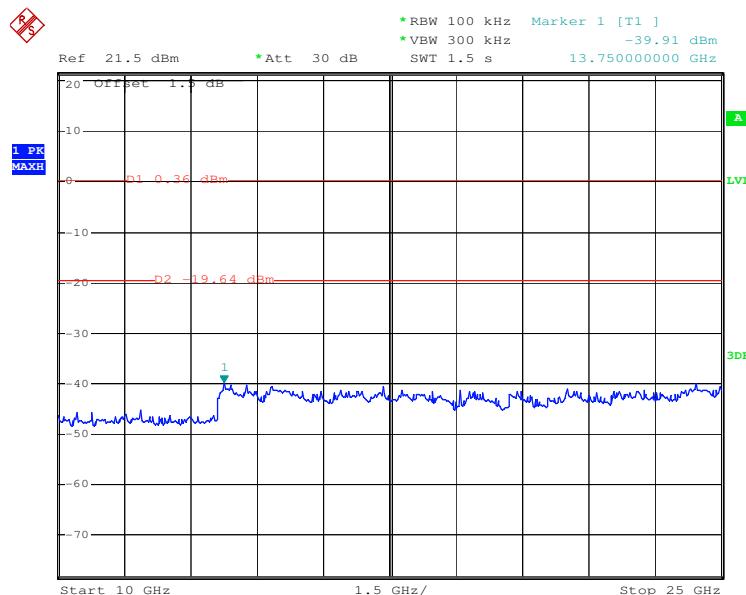
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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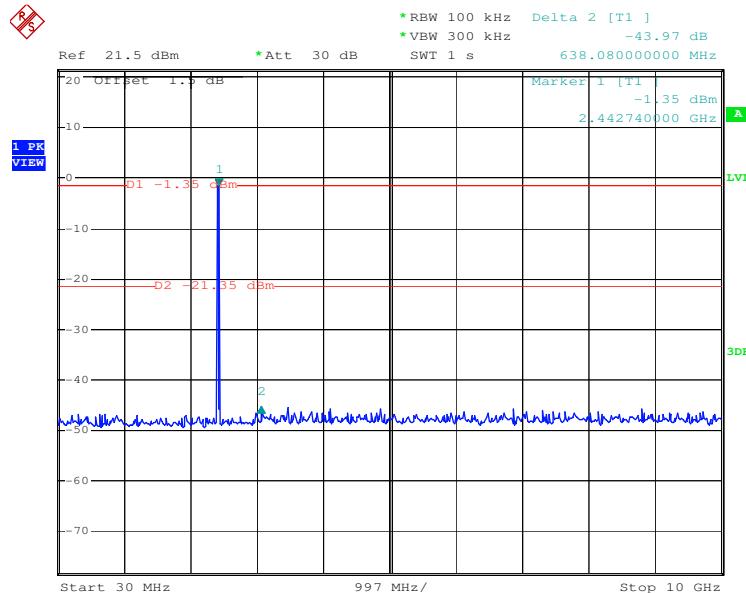


Date: 12.MAY.2010 10:01:02

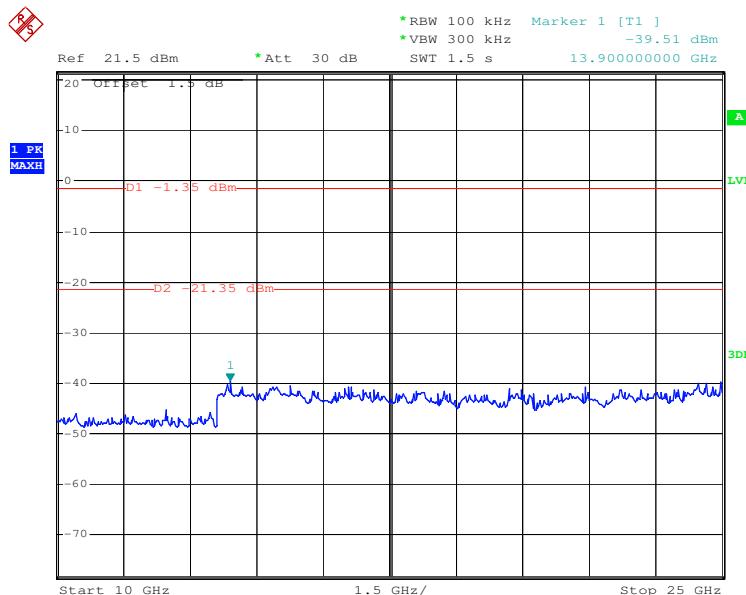


Date: 12.MAY.2010 10:01:28

Test mode:	802.11b	Test channel:	Middle
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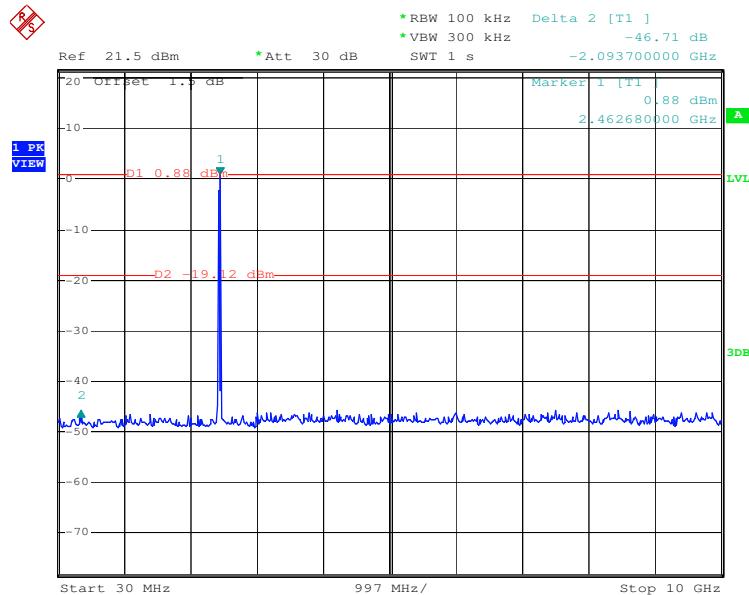


Date: 12.MAY.2010 10:25:09

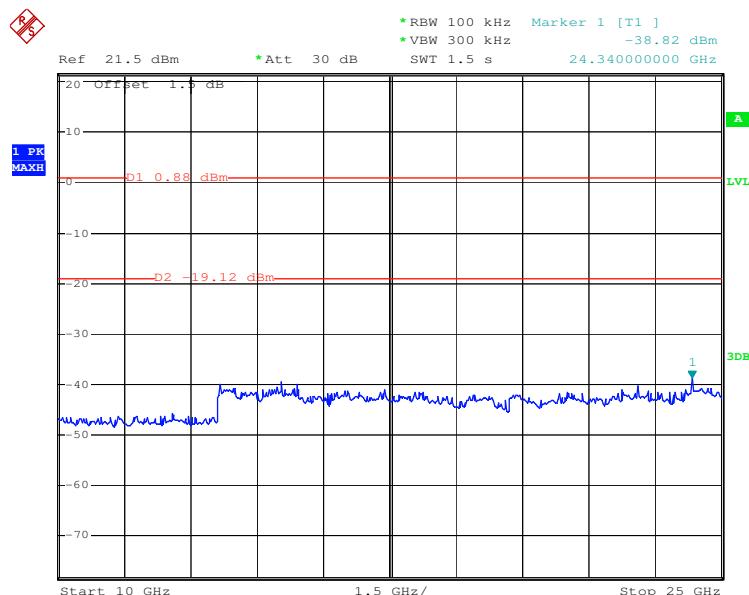


Date: 12.MAY.2010 10:25:32

Test mode:	802.11b	Test channel:	Highest
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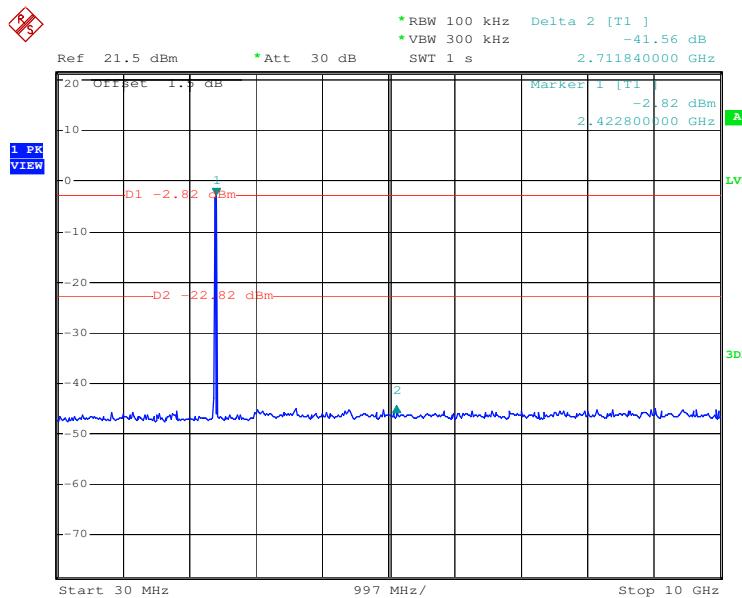


Date: 12.MAY.2010 10:35:00

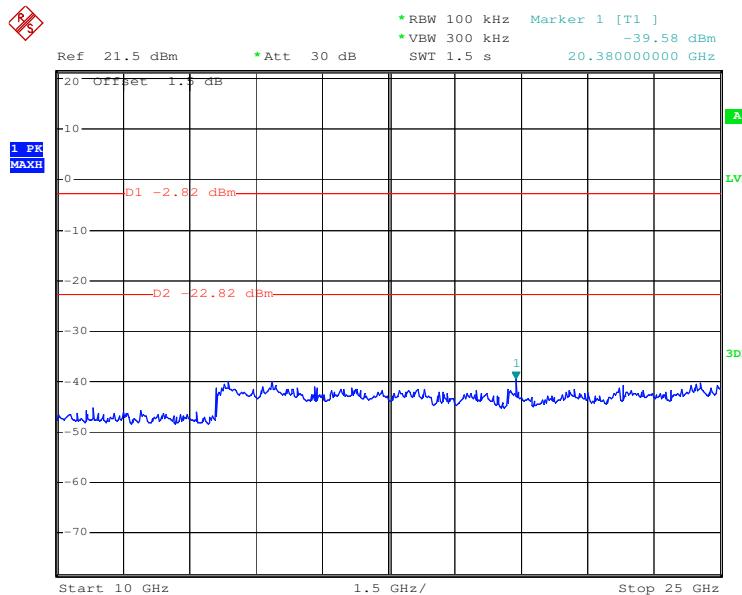


Date: 12.MAY.2010 10:35:25

Test mode:	802.11g	Test channel:	Lowest
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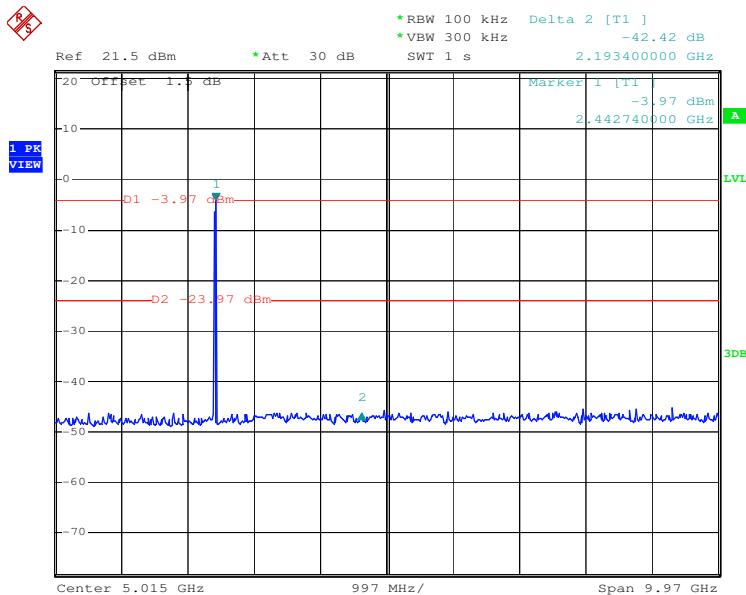


Date: 12.MAY.2010 11:25:18

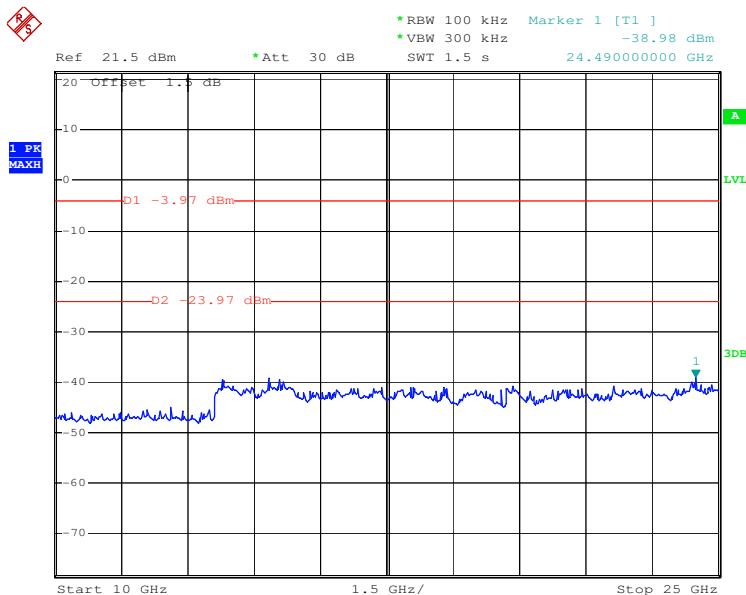


Date: 12.MAY.2010 11:25:41

Test mode:	802.11g	Test channel:	Middle
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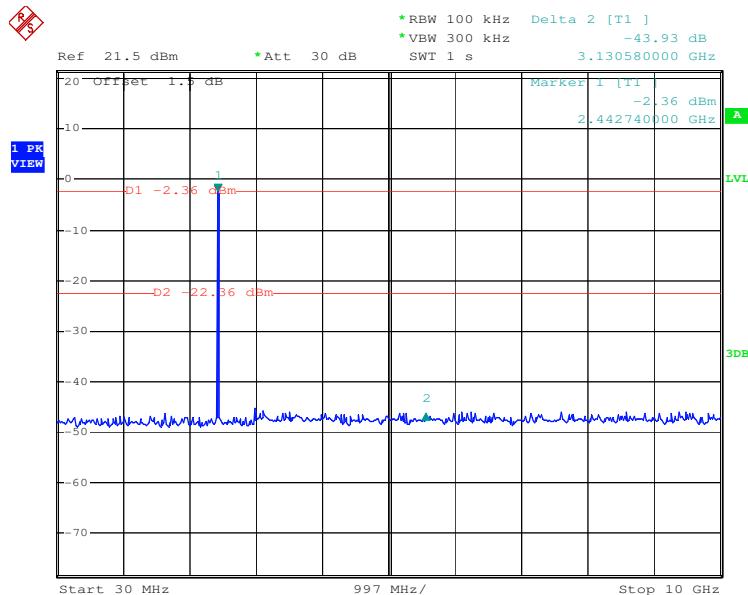


Date: 12.MAY.2010 11:03:20

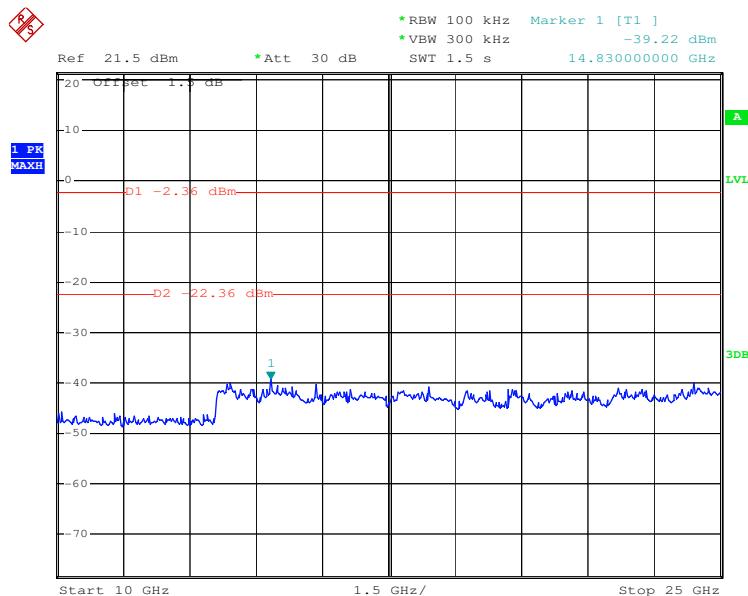


Date: 12.MAY.2010 11:03:57

Test mode:	802.11g	Test channel:	Highest
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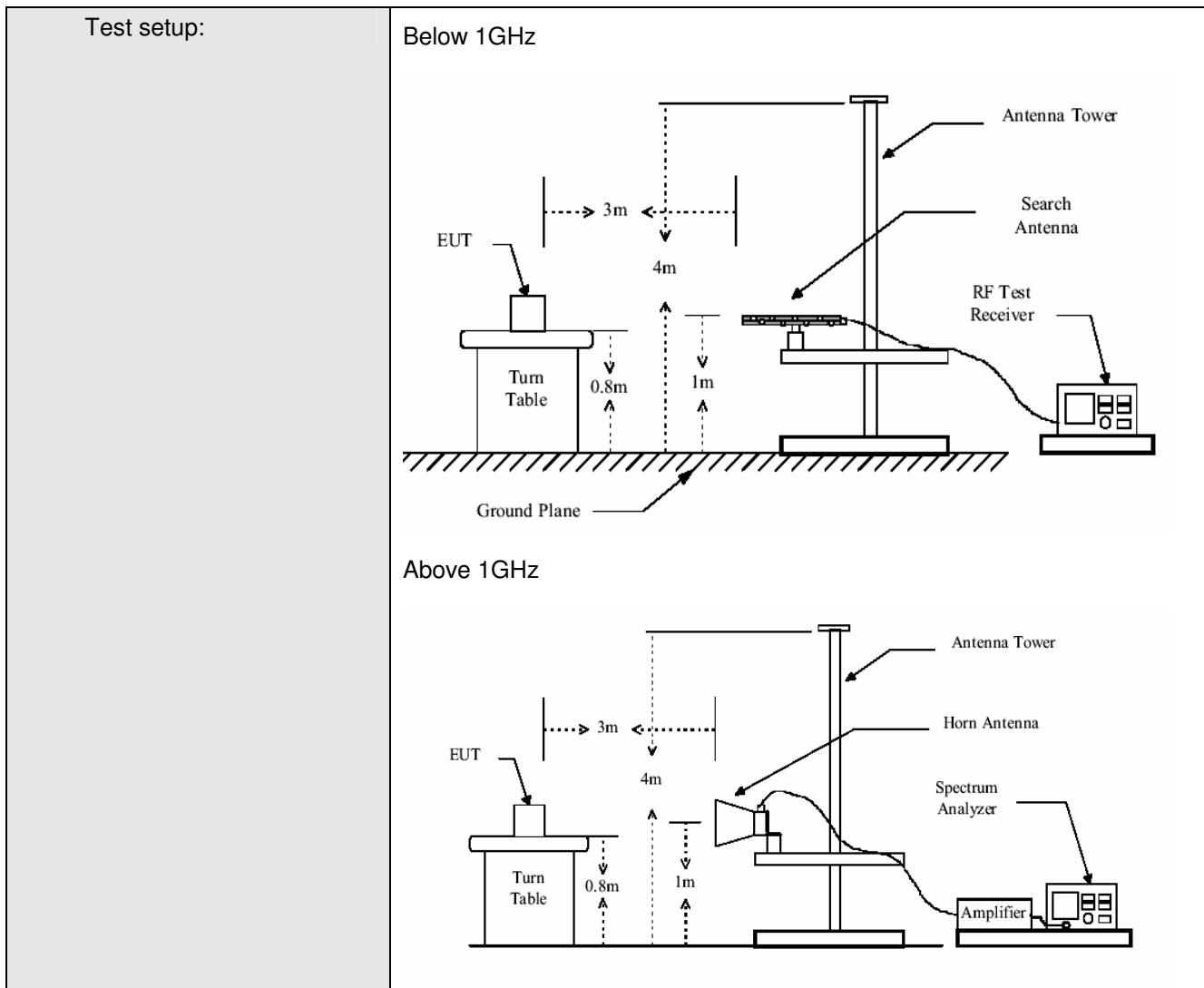
Date: 12.MAY.2010 10:53:03



Date: 12.MAY.2010 10:53:23

5.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																								
Test Method:	ANSI C63.4: 2003																								
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 is set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.</p>																								
Test Instruments:	Refer to section 4.7 for details																								
Test mode:	<p>Keep the EUT in transmitting mode</p> <p>Pre-scan was performed on the EUT in WLAN mode, LAN mode, and play SD card mode, play U-Disk mode</p> <p>For below 1GHz: Only the WLAN mode and the play U-Disk mode which was the worst case were displayed as below.</p> <p>For above 1GHz, Only the WLAN mode which was the worst case was displayed as below.</p>																								
Test results:	Passed																								


Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

5.8.1 Radiated emission below 1GHz

WLAN mode

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
145.430	1.31	8.57	27.49	55.77	38.16	43.50	-5.34	Vertical
171.620	1.36	9.55	27.31	50.43	34.03	43.50	-9.47	Vertical
194.900	1.39	10.15	27.18	51.73	36.09	43.50	-7.41	Vertical
219.150	1.51	11.18	27.05	47.45	33.09	46.00	-12.91	Vertical
245.340	1.65	12.16	26.93	51.78	38.66	46.00	-7.34	Vertical
304.510	1.91	14.07	26.76	45.61	34.83	46.00	-11.17	Vertical
202.660	1.42	10.32	27.14	50.06	34.66	43.50	-8.84	Horizontal
219.150	1.51	11.18	27.05	53.37	39.01	46.00	-6.99	Horizontal
238.550	1.62	11.93	26.96	50.31	36.90	46.00	-9.10	Horizontal
245.755	1.65	12.19	26.93	56.00	42.91	46.00	-3.09	Horizontal
304.510	1.91	14.07	26.76	50.85	40.07	46.00	-5.93	Horizontal
366.590	2.11	15.81	27.20	46.93	37.65	46.00	-8.35	Horizontal

Play U-Disk mode

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
140.580	1.30	8.15	27.52	55.69	37.62	43.50	-5.88	Vertical
145.430	1.31	8.57	27.49	54.31	36.70	43.50	-6.80	Vertical
194.900	1.39	10.15	27.18	54.09	38.45	43.50	-5.05	Vertical
219.150	1.51	11.18	27.05	50.96	36.60	46.00	-9.40	Vertical
245.340	1.65	12.16	26.93	51.95	38.83	46.00	-7.17	Vertical
304.510	1.91	14.07	26.76	48.01	37.23	46.00	-8.77	Vertical
94.990	1.15	8.91	27.91	51.57	33.72	43.50	-9.78	Horizontal
202.660	1.42	10.32	27.14	54.08	38.68	43.50	-4.82	Horizontal
238.550	1.62	11.93	26.96	52.72	39.31	46.00	-6.69	Horizontal
245.763	1.65	12.19	26.93	58.80	45.71	46.00	-0.29	Horizontal
366.590	2.11	15.81	27.20	48.79	39.51	46.00	-6.49	Horizontal
908.820	3.61	23.24	26.43	40.27	40.69	46.00	-5.31	Horizontal

Note: The data above is tested with QP detector mode.

5.8.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
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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
2399.870	6.34	32.25	38.87	61.00	60.72	74.00	-13.28	Vertical
4757.000	9.64	34.05	41.45	41.45	43.69	74.00	-30.31	Vertical
6270.000	14.45	35.67	41.63	41.24	49.73	74.00	-24.27	Vertical
9109.000	13.38	36.43	38.00	37.50	49.31	74.00	-24.69	Vertical
12339.000	17.71	38.99	39.41	39.98	57.27	74.00	-16.73	Vertical
16946.000	19.35	41.04	39.38	37.80	58.81	74.00	-15.19	Vertical
2398.240	6.34	32.25	38.87	62.40	62.12	74.00	-11.88	Horizontal
2530.000	5.85	32.37	39.10	49.29	48.41	74.00	-25.59	Horizontal
5318.000	11.85	34.45	41.22	39.80	44.88	74.00	-29.12	Horizontal
7052.000	13.63	36.59	41.29	41.66	50.59	74.00	-23.41	Horizontal
12339.000	17.71	38.99	39.41	35.35	52.64	74.00	-21.36	Horizontal
17439.000	19.72	41.36	39.71	38.90	60.27	74.00	-13.73	Horizontal

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2399.870	6.34	32.25	38.87	39.50	39.22	54.00	-14.78	Vertical
4757.000	9.64	34.05	41.45	33.72	35.96	54.00	-18.04	Vertical
6270.000	14.45	35.67	41.63	32.16	40.65	54.00	-13.35	Vertical
9109.000	13.38	36.43	38.00	28.53	40.34	54.00	-13.66	Vertical
12339.000	17.71	38.99	39.41	24.83	42.12	54.00	-11.88	Vertical
16946.000	19.35	41.04	39.38	25.42	46.43	54.00	-7.57	Vertical
2398.240	6.34	32.25	38.87	43.10	42.82	54.00	-11.18	Horizontal
2530.000	5.85	32.37	39.10	44.94	44.06	54.00	-9.94	Horizontal
5318.000	11.85	34.45	41.22	33.40	38.48	54.00	-15.52	Horizontal
7052.000	13.63	36.59	41.29	35.70	44.63	54.00	-9.37	Horizontal
12339.000	17.71	38.99	39.41	30.69	47.98	54.00	-6.02	Horizontal
17439.000	19.72	41.36	39.71	26.88	48.25	54.00	-5.75	Horizontal



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Test mode:	802.11b	Test channel:	Middle	Remark:	Peak
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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
2399.100	6.34	32.25	38.87	61.22	60.94	74.00	-13.06	Vertical
5216.000	11.73	34.30	41.19	41.76	46.60	74.00	-27.40	Vertical
6338.000	14.43	35.78	41.55	43.16	51.82	74.00	-22.18	Vertical
7749.000	13.85	35.90	39.52	40.37	50.60	74.00	-23.40	Vertical
12458.000	17.47	39.08	39.55	38.05	55.05	74.00	-18.95	Vertical
16997.000	19.48	41.00	39.32	37.56	58.72	74.00	-15.28	Vertical
2399.200	6.34	32.25	38.87	59.80	59.52	74.00	-14.48	Horizontal
4910.000	10.56	34.02	40.84	41.59	45.33	74.00	-28.67	Horizontal
6746.000	13.38	36.34	40.42	41.26	50.56	74.00	-23.44	Horizontal
10707.000	14.90	38.05	36.82	37.73	53.86	74.00	-20.14	Horizontal
12628.000	17.30	39.12	39.39	38.89	55.92	74.00	-18.08	Horizontal
17048.000	19.51	41.04	39.36	37.33	58.52	74.00	-15.48	Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2399.100	6.34	32.25	38.87	43.00	42.72	54.00	-11.28	Vertical
5216.000	11.73	34.30	41.19	33.56	38.40	54.00	-15.60	Vertical
6338.000	14.43	35.78	41.55	30.50	39.16	54.00	-14.84	Vertical
7749.000	13.85	35.90	39.52	27.92	38.15	54.00	-15.85	Vertical
12458.000	17.47	39.08	39.55	28.49	45.49	54.00	-8.51	Vertical
16997.000	19.48	41.00	39.32	27.79	48.95	54.00	-5.05	Vertical
2399.200	6.34	32.25	38.87	41.33	41.05	54.00	-12.95	Horizontal
4910.000	10.56	34.02	40.84	33.22	36.96	54.00	-17.04	Horizontal
6746.000	13.38	36.34	40.42	28.74	38.04	54.00	-15.96	Horizontal
10707.000	14.90	38.05	36.82	26.65	42.78	54.00	-11.22	Horizontal
12628.000	17.30	39.12	39.39	27.57	44.60	54.00	-9.40	Horizontal
17048.000	19.51	41.04	39.36	26.86	48.05	54.00	-5.95	Horizontal



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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak
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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
2394.710	6.31	32.24	38.95	56.30	55.90	74.00	-18.10	Vertical
5522.000	12.42	34.72	41.80	40.17	45.51	74.00	-28.49	Vertical
7902.000	13.60	35.96	39.82	39.96	49.70	74.00	-24.30	Vertical
10673.000	14.90	38.03	36.74	38.04	54.23	74.00	-19.77	Vertical
12866.000	16.89	39.18	38.94	34.98	52.11	74.00	-21.89	Vertical
17388.000	19.80	41.32	39.66	38.00	59.46	74.00	-14.54	Vertical
2398.980	6.34	32.25	38.87	63.50	63.22	74.00	-10.78	Horizontal
5369.000	11.90	34.51	41.36	38.20	43.25	74.00	-30.75	Horizontal
7817.000	14.34	35.93	39.65	39.02	49.64	74.00	-24.36	Horizontal
11115.000	15.12	38.28	37.81	36.21	51.80	74.00	-22.20	Horizontal
12747.000	17.08	39.15	39.13	36.55	53.65	74.00	-20.35	Horizontal
16368.000	18.43	41.15	40.06	38.98	58.50	74.00	-15.50	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 (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2394.710	6.31	32.24	38.95	39.20	38.80	54.00	-15.20	Vertical
5522.000	12.42	34.72	41.80	30.74	36.08	54.00	-17.92	Vertical
7902.000	13.60	35.96	39.82	30.58	40.32	54.00	-13.68	Vertical
10673.000	14.90	38.03	36.74	28.98	45.17	54.00	-8.83	Vertical
12866.000	16.89	39.18	38.94	26.85	43.98	54.00	-10.02	Vertical
17388.000	19.80	41.32	39.66	27.13	48.59	54.00	-5.41	Vertical
2398.980	6.34	32.25	38.87	44.00	43.72	54.00	-10.28	Horizontal
5369.000	11.90	34.51	41.36	30.32	35.37	54.00	-18.63	Horizontal
7817.000	14.34	35.93	39.65	26.43	37.05	54.00	-16.95	Horizontal
11115.000	15.12	38.28	37.81	24.74	40.33	54.00	-13.67	Horizontal
12747.000	17.08	39.15	39.13	24.60	41.70	54.00	-12.30	Horizontal
16368.000	18.43	41.15	40.06	28.80	48.32	54.00	-5.68	Horizontal



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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak
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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
5148.000	11.27	34.21	41.19	41.08	45.37	74.00	-28.63	Vertical
6746.000	13.38	36.34	40.42	39.60	48.90	74.00	-25.10	Vertical
7902.000	13.60	35.96	39.82	38.89	48.63	74.00	-25.37	Vertical
10299.000	14.23	37.65	36.82	35.29	50.35	74.00	-23.65	Vertical
12339.000	17.71	38.99	39.41	35.65	52.94	74.00	-21.06	Vertical
16742.000	19.01	41.20	39.60	33.60	54.21	74.00	-19.79	Vertical
4859.000	9.68	34.03	40.35	36.02	39.38	74.00	-34.62	Horizontal
6916.000	13.63	36.59	40.69	38.23	47.76	74.00	-26.24	Horizontal
9041.000	13.44	36.36	37.83	33.13	45.10	74.00	-28.90	Horizontal
10435.000	14.26	37.79	36.54	34.55	50.06	74.00	-23.94	Horizontal
12509.000	17.42	39.10	39.59	33.72	50.65	74.00	-23.35	Horizontal
17660.000	19.59	41.76	39.68	33.92	55.59	74.00	-18.41	Horizontal

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
5148.000	11.27	34.21	41.19	31.80	36.09	54.00	-17.91	Vertical
6746.000	13.38	36.34	40.42	26.80	36.10	54.00	-17.90	Vertical
7902.000	13.60	35.96	39.82	26.30	36.04	54.00	-17.96	Vertical
10299.000	14.23	37.65	36.82	25.40	40.46	54.00	-13.54	Vertical
12339.000	17.71	38.99	39.41	22.80	40.09	54.00	-13.91	Vertical
16742.000	19.01	41.20	39.60	21.91	42.52	54.00	-11.48	Vertical
4859.000	9.68	34.03	40.35	26.87	30.23	54.00	-23.77	Horizontal
6916.000	13.63	36.59	40.69	29.65	39.18	54.00	-14.82	Horizontal
9041.000	13.44	36.36	37.83	24.41	36.38	54.00	-17.62	Horizontal
10435.000	14.26	37.79	36.54	24.24	39.75	54.00	-14.25	Horizontal
12509.000	17.42	39.10	39.59	23.48	40.41	54.00	-13.59	Horizontal
17660.000	19.59	41.76	39.68	23.80	45.47	54.00	-8.53	Horizontal



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Test mode:	802.11g	Test channel:	Middle	Remark:	Peak
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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
5216.000	11.73	34.30	41.19	38.01	42.85	74.00	-31.15	Vertical
6542.000	13.51	36.06	41.20	37.90	46.27	74.00	-27.73	Vertical
7749.000	13.85	35.90	39.52	37.01	47.24	74.00	-26.76	Vertical
10605.000	14.91	37.98	36.57	33.64	49.96	74.00	-24.04	Vertical
12662.000	17.25	39.13	39.33	33.91	50.96	74.00	-23.04	Vertical
17218.000	19.67	41.20	39.53	33.61	54.95	74.00	-19.05	Vertical
4893.000	10.57	34.02	40.33	39.09	43.35	74.00	-30.65	Horizontal
5947.000	13.10	35.24	41.93	40.95	47.36	74.00	-26.64	Horizontal
7715.000	13.68	35.89	39.47	38.11	48.21	74.00	-25.79	Horizontal
9976.000	14.32	37.28	37.62	36.29	50.27	74.00	-23.73	Horizontal
12220.000	17.95	38.93	39.30	35.54	53.12	74.00	-20.88	Horizontal
17388.000	19.80	41.32	39.66	35.31	56.77	74.00	-17.23	Horizontal

Test mode:	802.11g	Test channel:	Middle	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
5216.000	11.73	34.30	41.19	27.49	32.33	54.00	-21.67	Vertical
6542.000	13.51	36.06	41.20	26.79	35.16	54.00	-18.84	Vertical
7749.000	13.85	35.90	39.52	27.30	37.53	54.00	-16.47	Vertical
10605.000	14.91	37.98	36.57	24.69	41.01	54.00	-12.99	Vertical
12662.000	17.25	39.13	39.33	24.50	41.55	54.00	-12.45	Vertical
17218.000	19.67	41.20	39.53	22.09	43.43	54.00	-10.57	Vertical
4893.000	10.57	34.02	40.33	31.69	35.95	54.00	-18.05	Horizontal
5947.000	13.10	35.24	41.93	31.40	37.81	54.00	-16.19	Horizontal
7715.000	13.68	35.89	39.47	31.80	41.90	54.00	-12.10	Horizontal
9976.000	14.32	37.28	37.62	26.10	40.08	54.00	-13.92	Horizontal
12220.000	17.95	38.93	39.30	25.29	42.87	54.00	-11.13	Horizontal
17388.000	19.80	41.32	39.66	23.50	44.96	54.00	-9.04	Horizontal



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Test mode:	802.11g	Test channel:	Highest	Remark:	Peak
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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
4366.000	8.90	33.92	40.63	40.84	43.03	74.00	-30.97	Vertical
6151.000	14.23	35.52	41.74	41.51	49.52	74.00	-24.48	Vertical
7766.000	14.01	35.91	39.56	37.68	48.04	74.00	-25.96	Vertical
9959.000	14.28	37.26	37.70	41.54	55.38	74.00	-18.62	Vertical
12458.000	17.47	39.08	39.55	36.03	53.03	74.00	-20.97	Vertical
17303.000	19.71	41.24	39.58	34.15	55.52	74.00	-18.48	Vertical
4451.000	8.92	34.05	40.30	41.55	44.22	74.00	-29.78	Horizontal
6066.000	13.63	35.40	41.82	41.22	48.43	74.00	-25.57	Horizontal
7800.000	14.34	35.93	39.65	37.47	48.09	74.00	-25.91	Horizontal
10639.000	14.91	38.00	36.65	33.81	50.07	74.00	-23.93	Horizontal
12577.000	17.34	39.12	39.46	36.12	53.12	74.00	-20.88	Horizontal
17269.000	19.71	41.24	39.58	33.66	55.03	74.00	-18.97	Horizontal

Test mode:	802.11g	Test channel:	Highest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
4366.000	8.90	33.92	40.63	31.21	33.40	54.00	-20.60	Vertical
6151.000	14.23	35.52	41.74	28.60	36.61	54.00	-17.39	Vertical
7766.000	14.01	35.91	39.56	27.40	37.76	54.00	-16.24	Vertical
9959.000	14.28	37.26	37.70	26.90	40.74	54.00	-13.26	Vertical
12458.000	17.47	39.08	39.55	22.89	39.89	54.00	-14.11	Vertical
17303.000	19.71	41.24	39.58	19.80	41.17	54.00	-12.83	Vertical
4451.000	8.92	34.05	40.30	36.30	38.97	54.00	-15.03	Horizontal
6066.000	13.63	35.40	41.82	33.50	40.71	54.00	-13.29	Horizontal
7800.000	14.34	35.93	39.65	27.10	37.72	54.00	-16.28	Horizontal
10639.000	14.91	38.00	36.65	25.89	42.15	54.00	-11.85	Horizontal
12577.000	17.34	39.12	39.46	24.30	41.30	54.00	-12.70	Horizontal
17269.000	19.71	41.24	39.58	19.80	41.17	54.00	-12.83	Horizontal

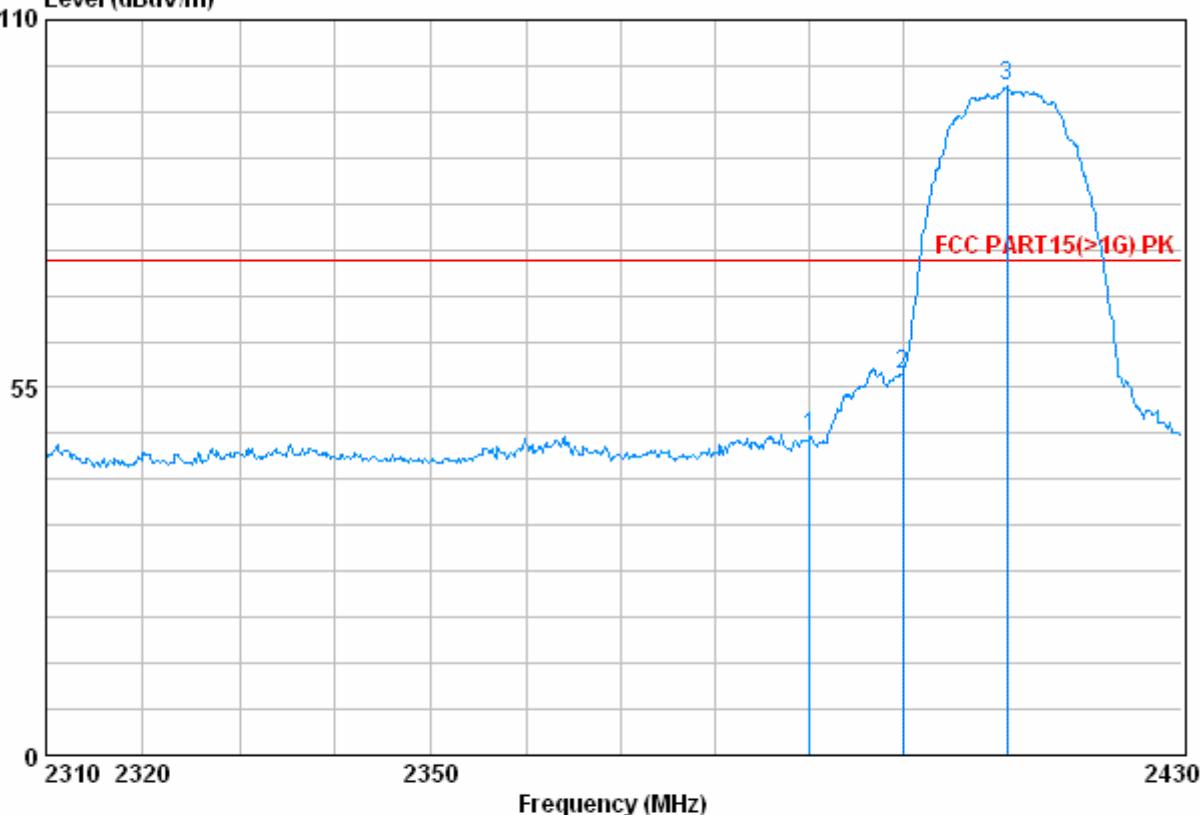
5.8.3 Band Edge and Restricted band (Radiated measurement)

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
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Horizontal:

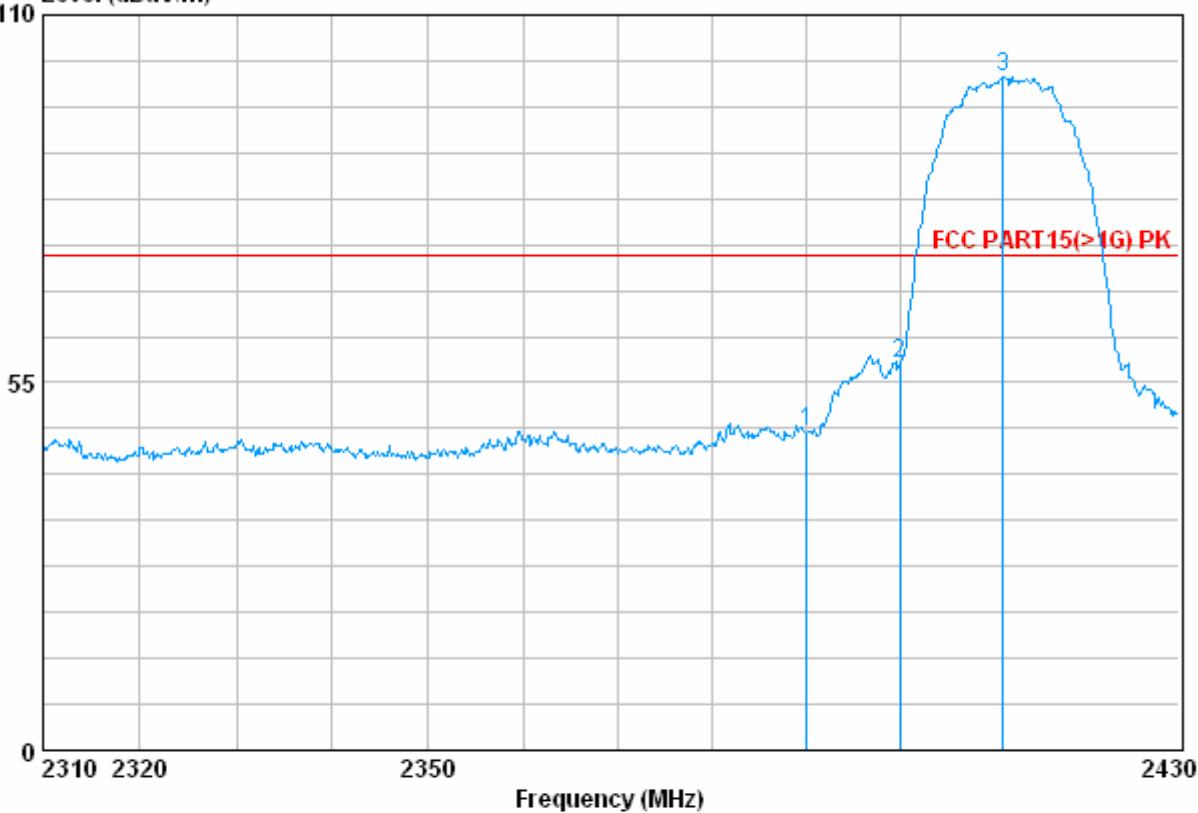
Data: 236

Level (dBuV/m)



Freq	Cable	Antenna	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	50.52	47.75	74.00	-26.25
2	2400.000	6.34	30.03	38.87	59.38	56.88	74.00	-17.12
3 X	2411.160	6.25	30.05	38.83	102.49	99.96	74.00	25.96

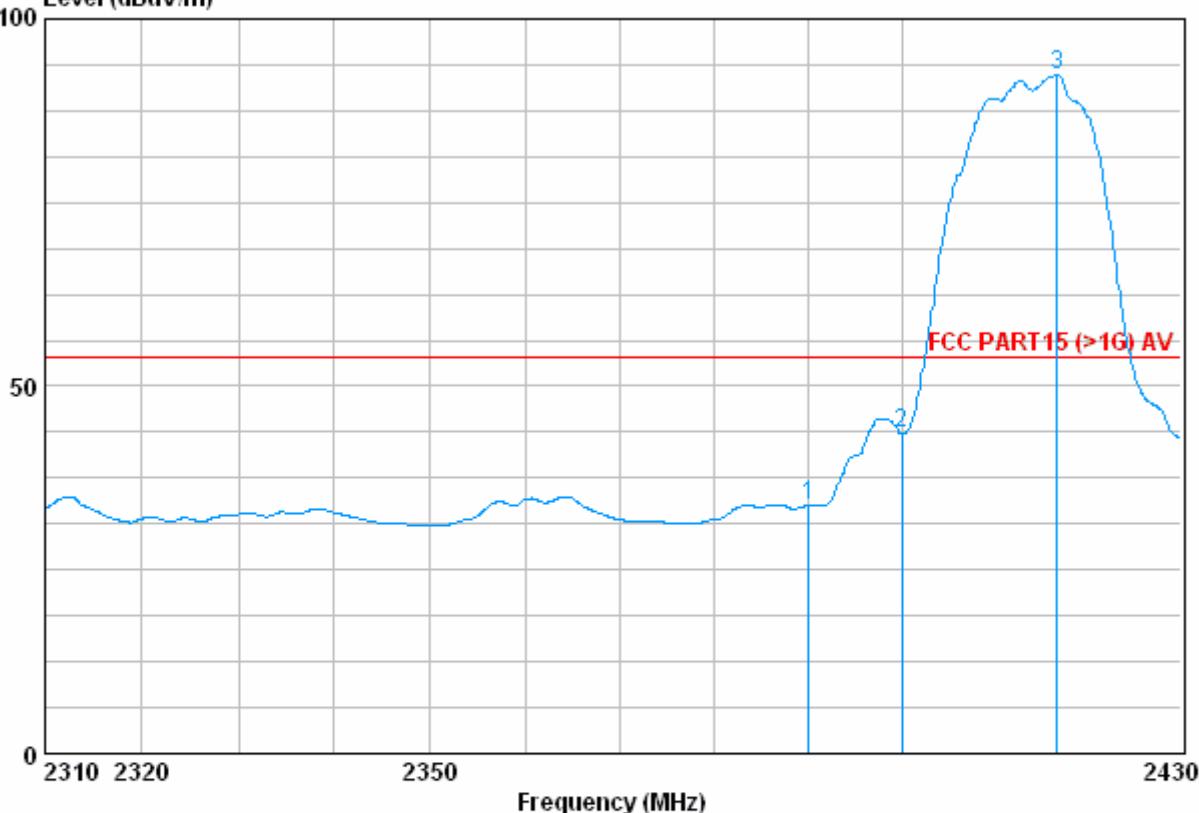
Vertical:

Data: 237
Level (dBuV/m)

Freq	Cable		Antenna		Preamp	Read	Limit	Over
	Loss	Factor	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	50.30	47.54	74.00	-26.46
2	2400.000	6.34	30.03	38.87	60.32	57.82	74.00	-16.18
3 X	2411.040	6.25	30.05	38.83	103.26	100.73	74.00	26.73

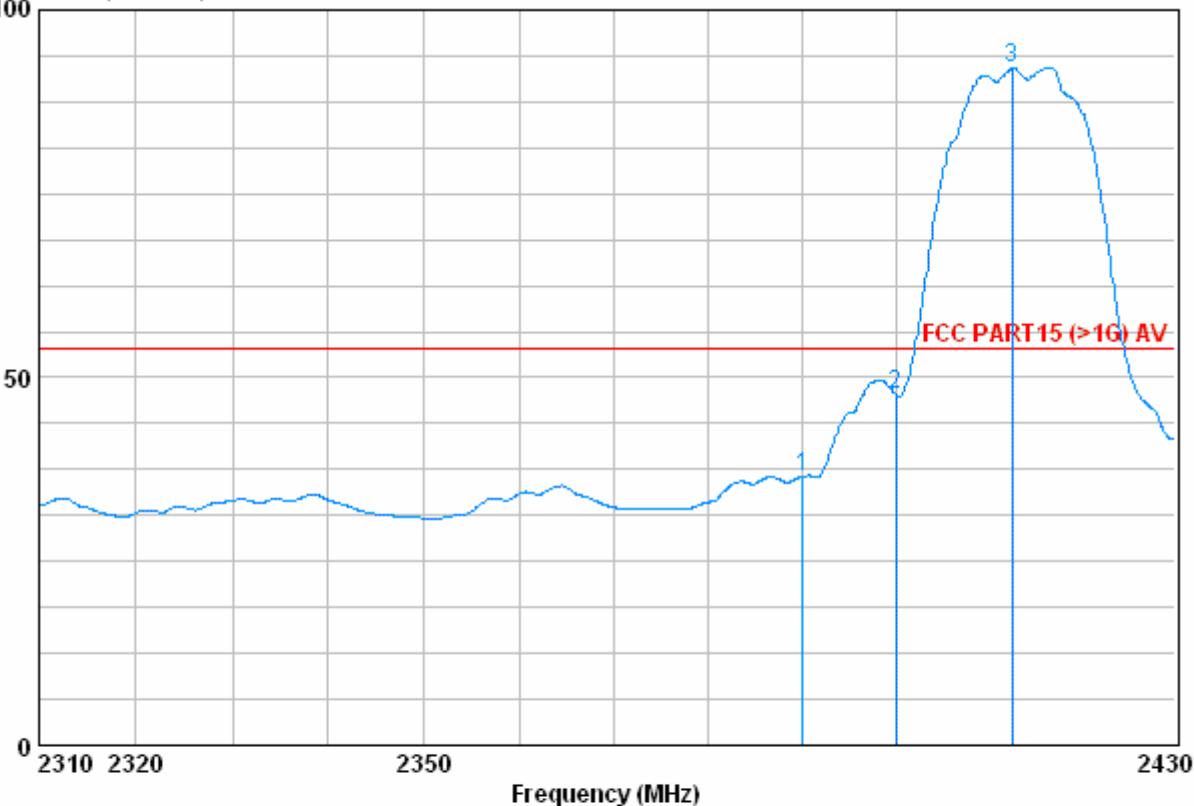
Test mode:	802.11b	Test channel:	Lowest	Remark:	Average
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Horizontal:

Data: 239
Level (dBuV/m)

Freq	Cable	Antenna	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	36.58	33.81	54.00	-20.19
2	2400.000	6.34	30.03	38.87	46.09	43.59	54.00	-10.41
3	2416.680	6.15	30.08	38.78	94.83	92.28	54.00	38.28

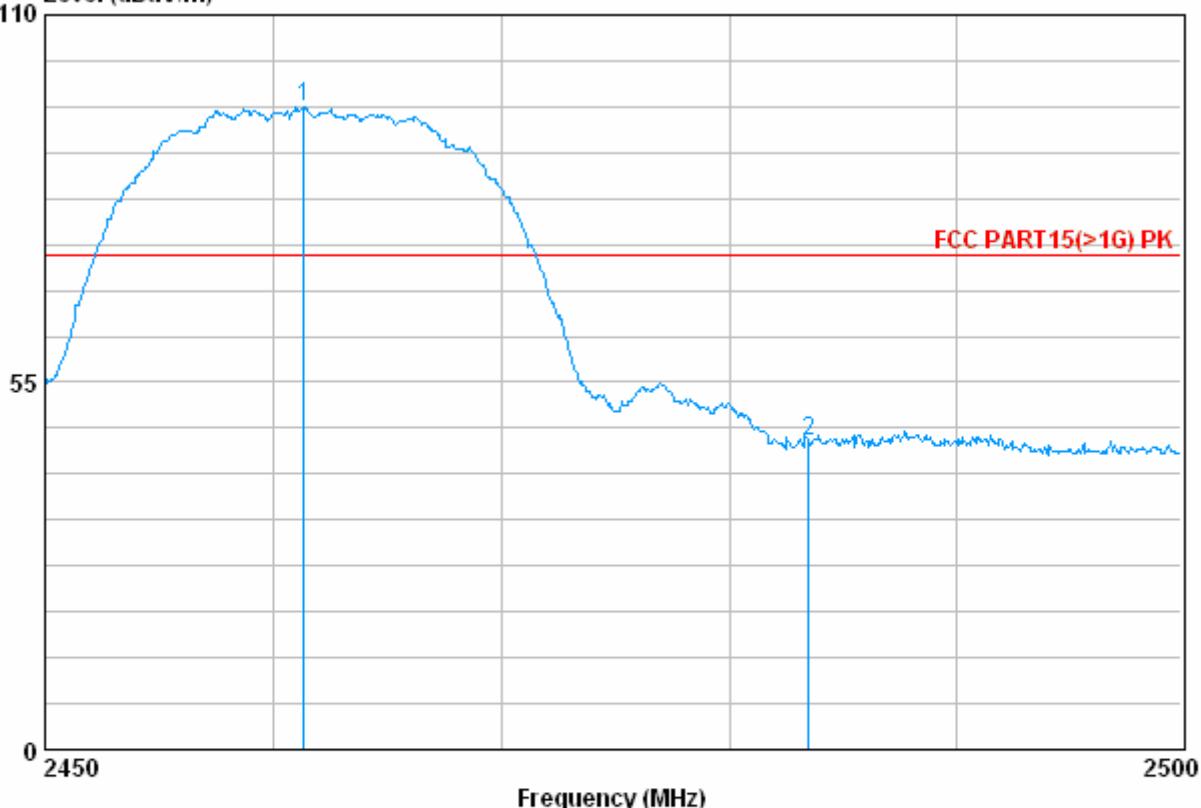
Vertical:

Data: 238
Level (dBuV/m)

Freq	Cable		Antenna		Preamp		Read		Limit	Over
	Loss	Factor	Factor	Factor	Level	Level	Line	Limit		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	6.28	29.98	39.03	39.33	36.56	54.00	-17.44		
2	2400.000	6.34	30.03	38.87	50.24	47.74	54.00	-6.26		
3	2412.480	6.15	30.08	38.78	94.63	92.08	54.00	38.08		

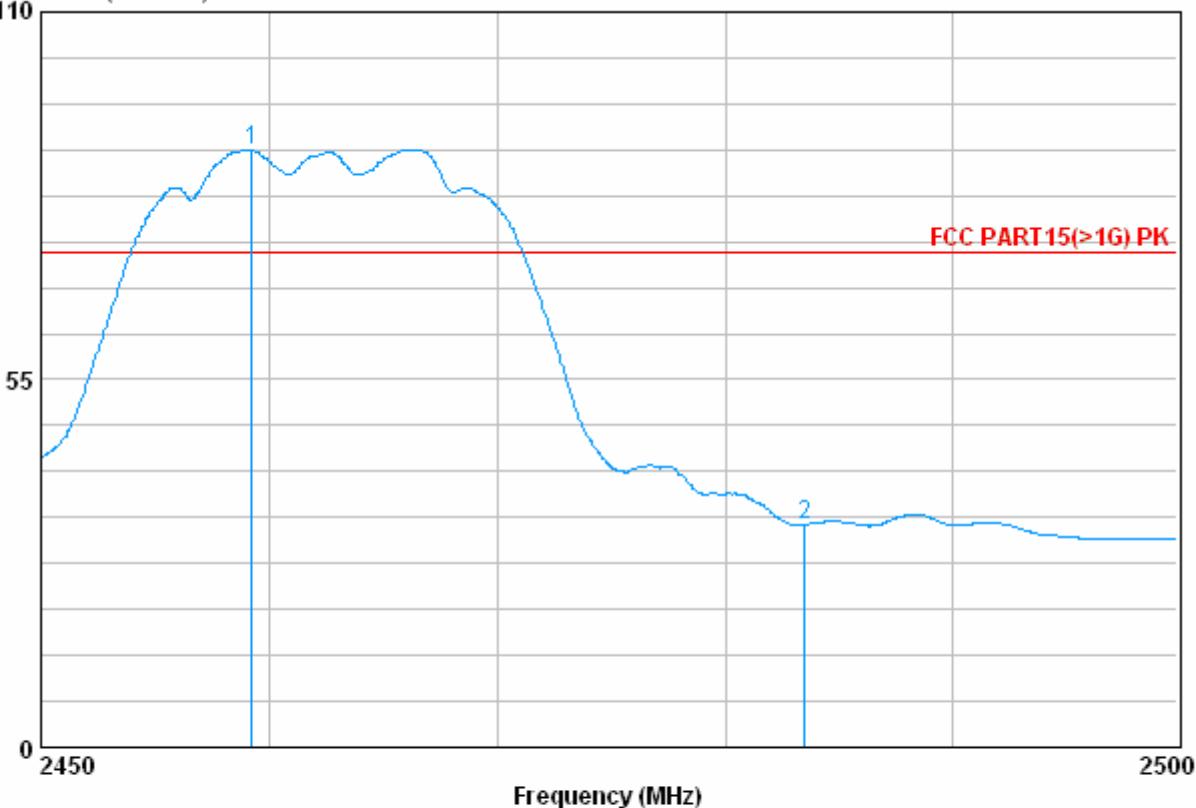
Test mode:	802.11b	Test channel:	Highest	Remark:	Peak
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Horizontal:

Data: 241
Level (dBuV/m)

Freq	Cable			Antenna		Preamp		Read	Limit	Over	Line	Limit
	Loss	Factor	Factor									
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB			
1 X	2461.300	6.70	30.25	39.61	98.92	96.26	74.00	74.00	22.26			
2	2483.500	6.22	30.32	39.53	49.11	46.12	74.00	74.00	-27.88			

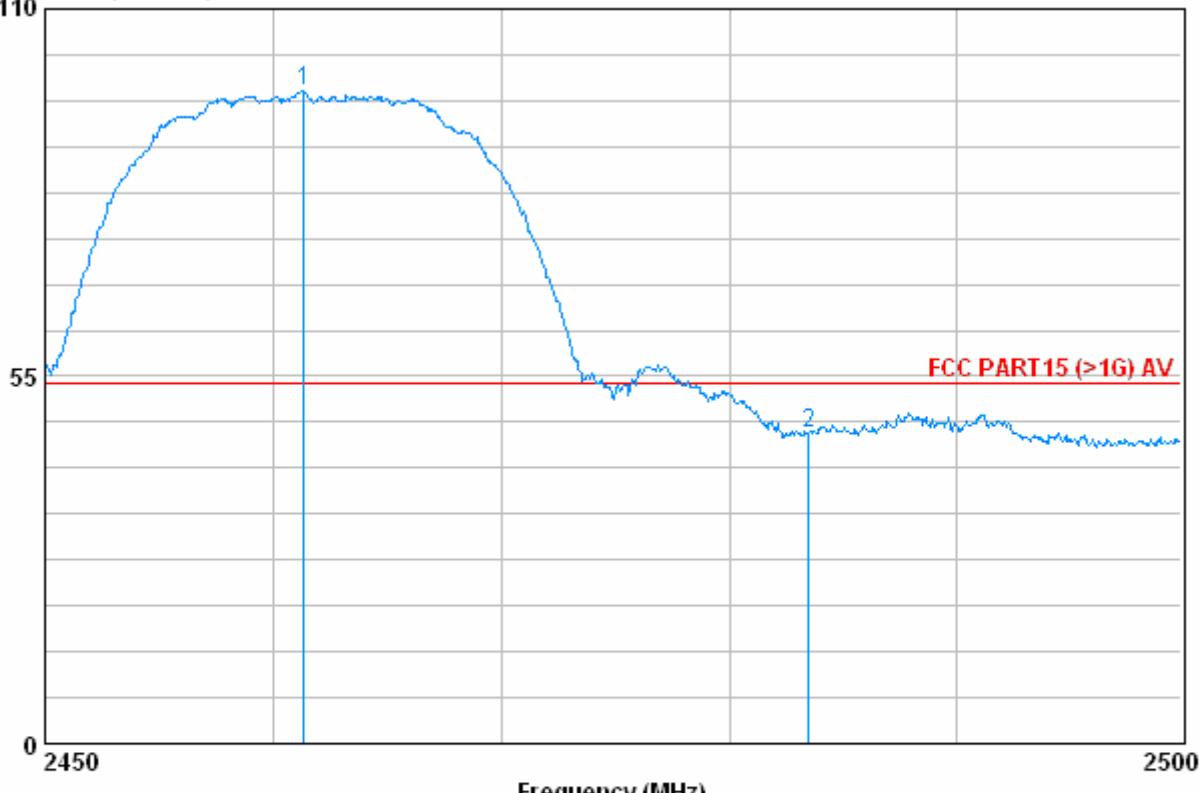
Vertical

Data: 242
Level (dBuV/m)

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2459.200	6.83	30.22	39.56	91.84	89.34	74.00	15.34
2	2483.500	6.22	30.32	39.53	36.26	33.27	74.00	-40.73

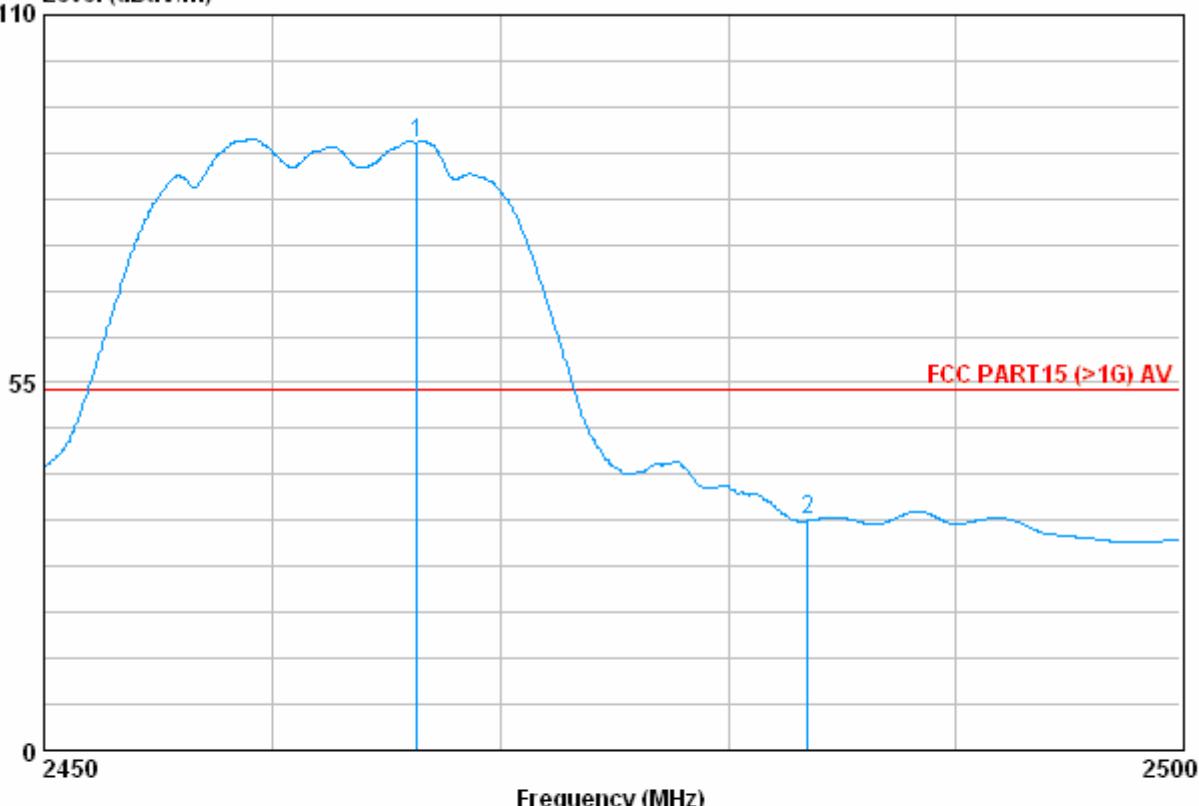
Test mode:	802.11b	Test channel:	Highest	Remark:	Average
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Horizontal

Data: 240
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	2461.300	6.70	30.25	39.61	100.24	97.58	54.00	43.58		
2	2483.500	6.22	30.32	39.53	49.43	46.45	54.00		-7.55	

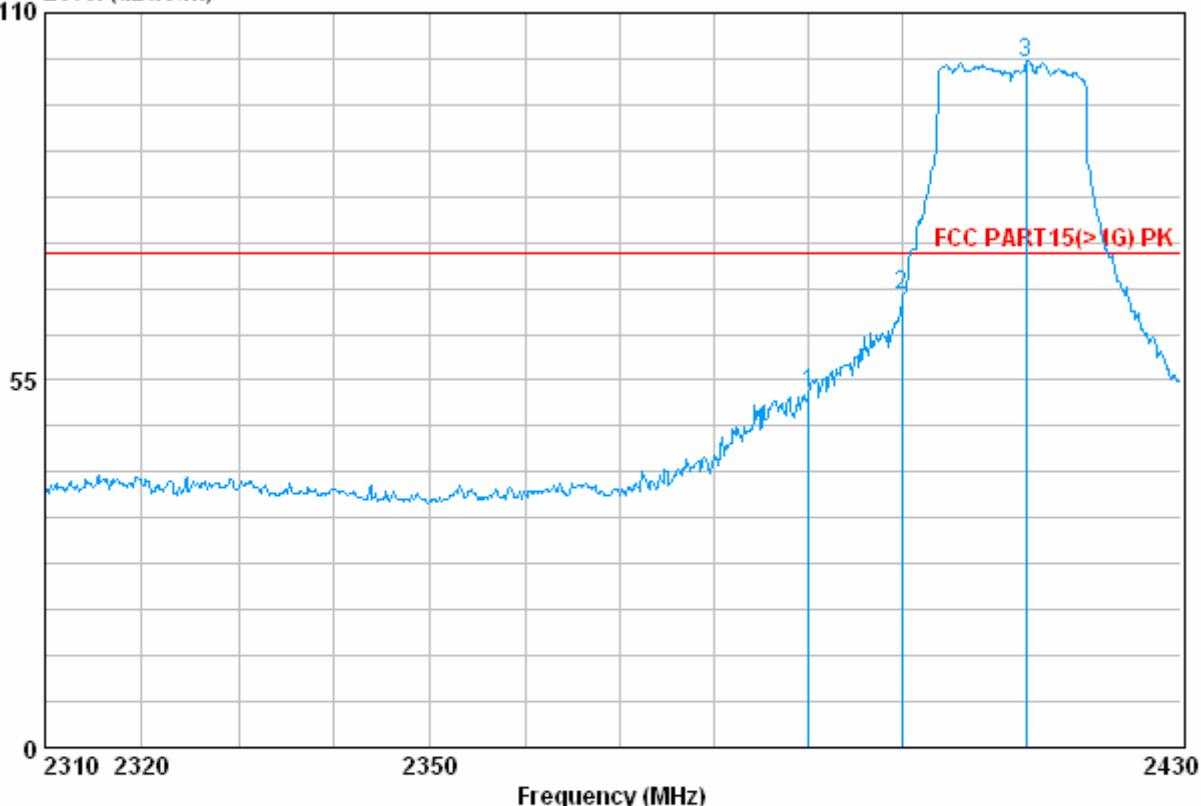
Vertical:

Data: 243
Level (dBuV/m)

Freq	Cable			Antenna		Preamp		Read Level	Limit Level	Line Limit	Over Limit
	Loss	Antenna Factor	Preamp Factor	dB	dB/m	dB					
	MHz										
1 X	2466.300	6.70	30.25	39.61	93.60	90.94	54.00	36.94			
2	2483.500	6.22	30.32	39.53	37.35	34.37	54.00	-19.63			

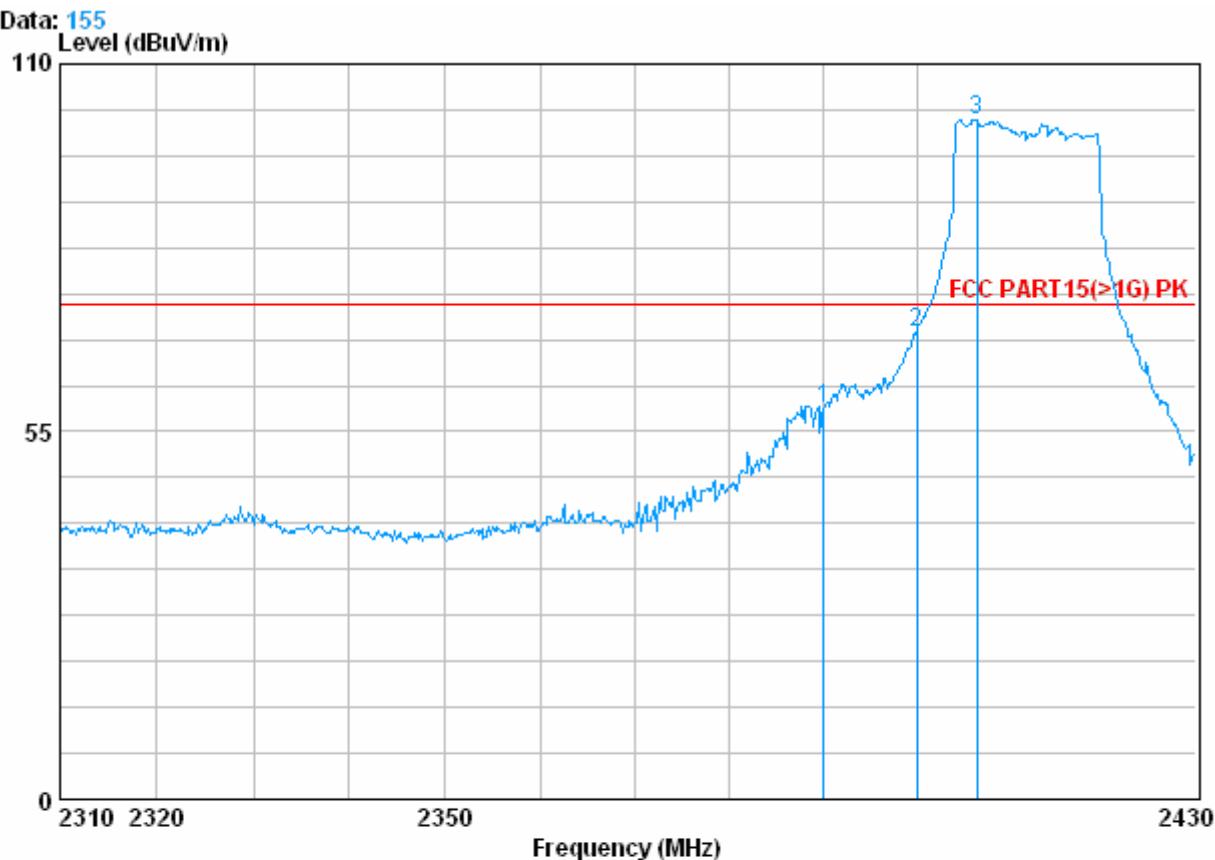
Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak
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Horizontal:

Data: 248
Level (dBuV/m)

Freq	Cable	Antenna	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	55.75	52.98	74.00	-21.02
2	2400.000	6.34	30.03	38.87	70.28	67.78	74.00	-6.22
3 X	2413.320	6.15	30.08	38.78	104.94	102.38	74.00	28.38

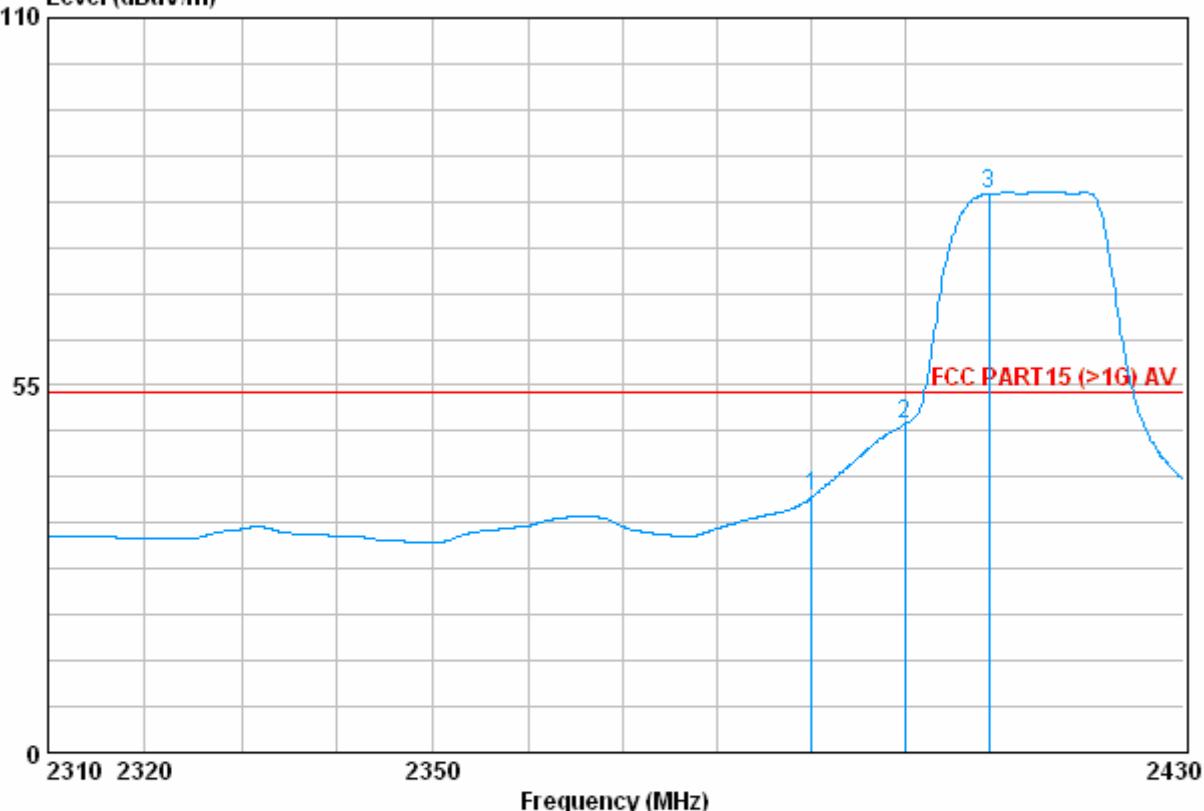
Vertical:



Freq	Cable		Antenna	Preamp	Read	Limit	Line	Over
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	61.22	58.45	74.00	-15.55
2	2400.000	6.34	30.03	38.87	72.26	69.76	74.00	-4.24
3	2406.360	6.25	30.05	38.83	104.17	101.64	74.00	27.64

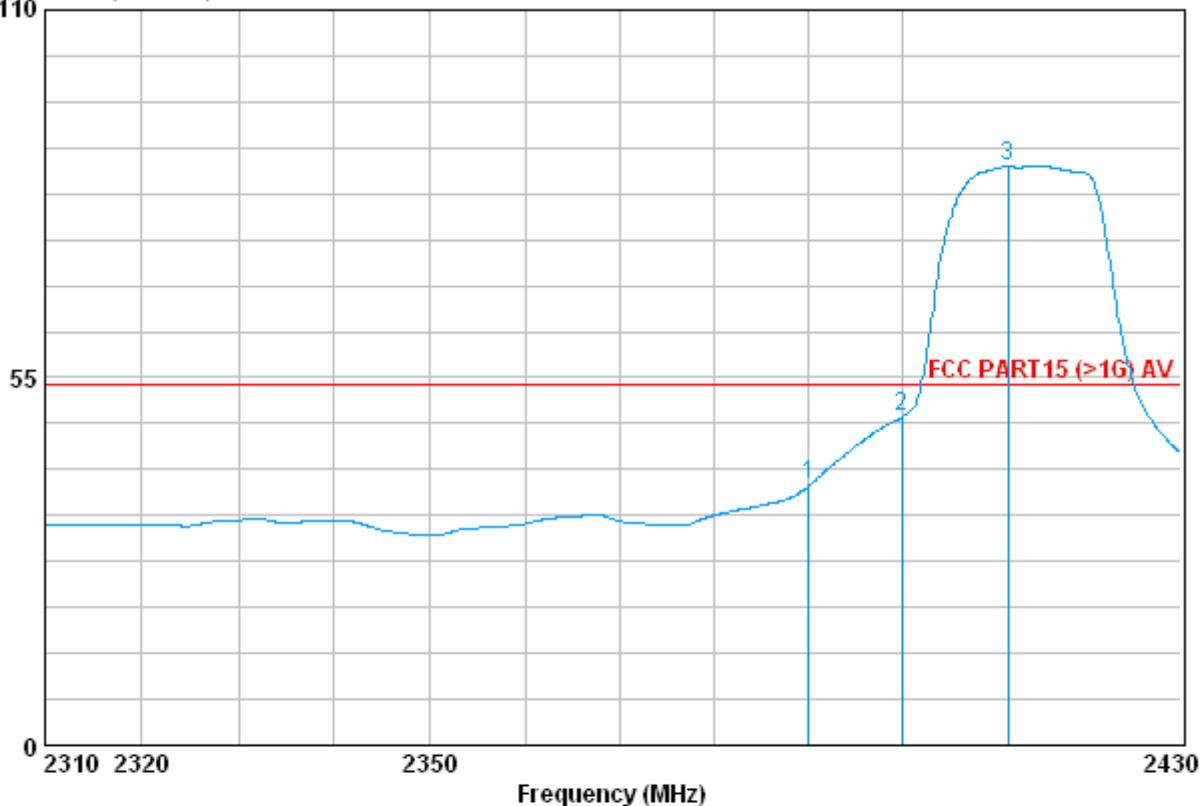
Test mode:	802.11g	Test channel:	Lowest	Remark:	Average
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Horizontal

Data: 251
Level (dBuV/m)


Freq	Cable			Antenna		Preamp		Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	6.28	29.98	39.03	41.09	38.33	54.00	-15.67		
2	2400.000	6.34	30.03	38.87	51.64	49.14	54.00	-4.86		
3 X	2409.000	6.25	30.05	38.83	86.10	83.57	54.00	29.57		

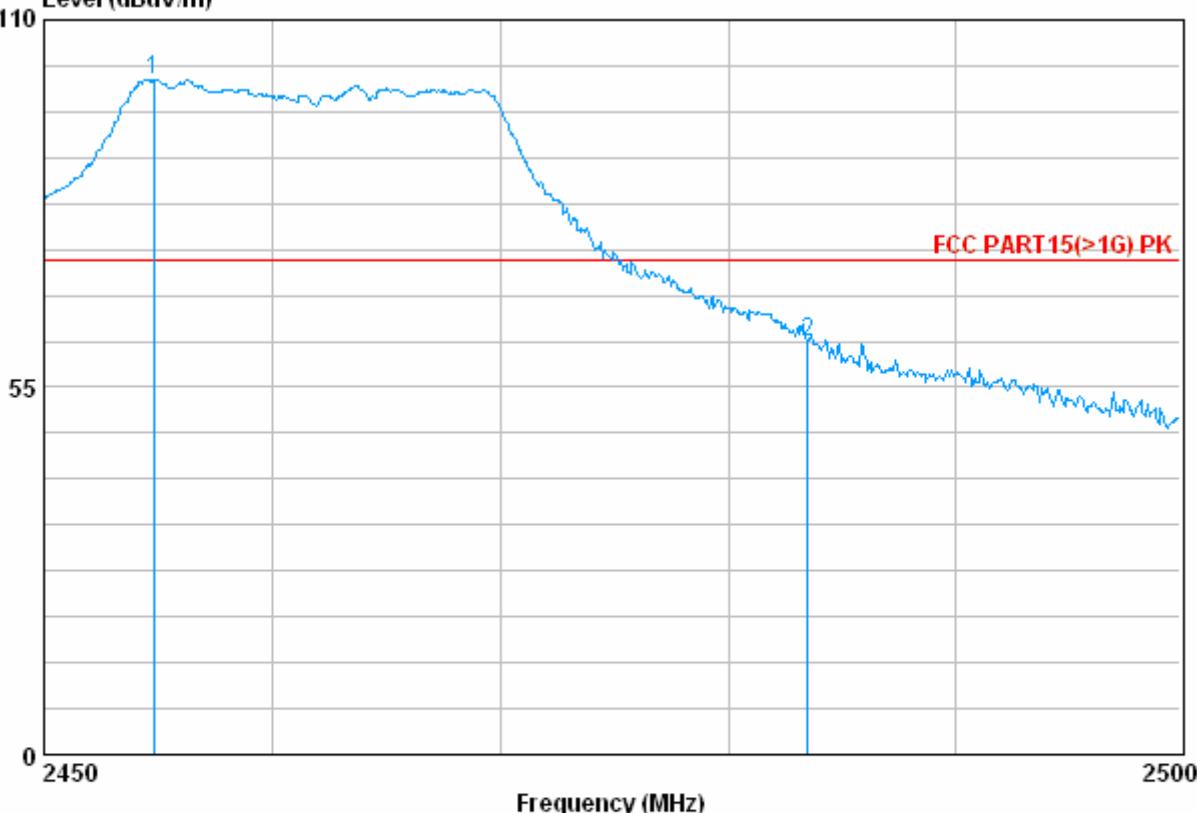
Vertical:

Data: 250
Level (dBuV/m)

Freq	Cable			Antenna		Preamp		Read	Limit	Line	Over
	Loss	Factor	Factor								
	MHz	dB	dB/m				dBuV	dBuV/m	dBuV/m		dB
1	2390.000	6.28	29.98	39.03	41.65	38.88	54.00	54.00	-15.12		
2	2400.000	6.34	30.03	38.87	51.56	49.06	54.00	54.00	-4.94		
3 X	2411.400	6.15	30.08	38.78	89.15	86.60	54.00	54.00	32.60		

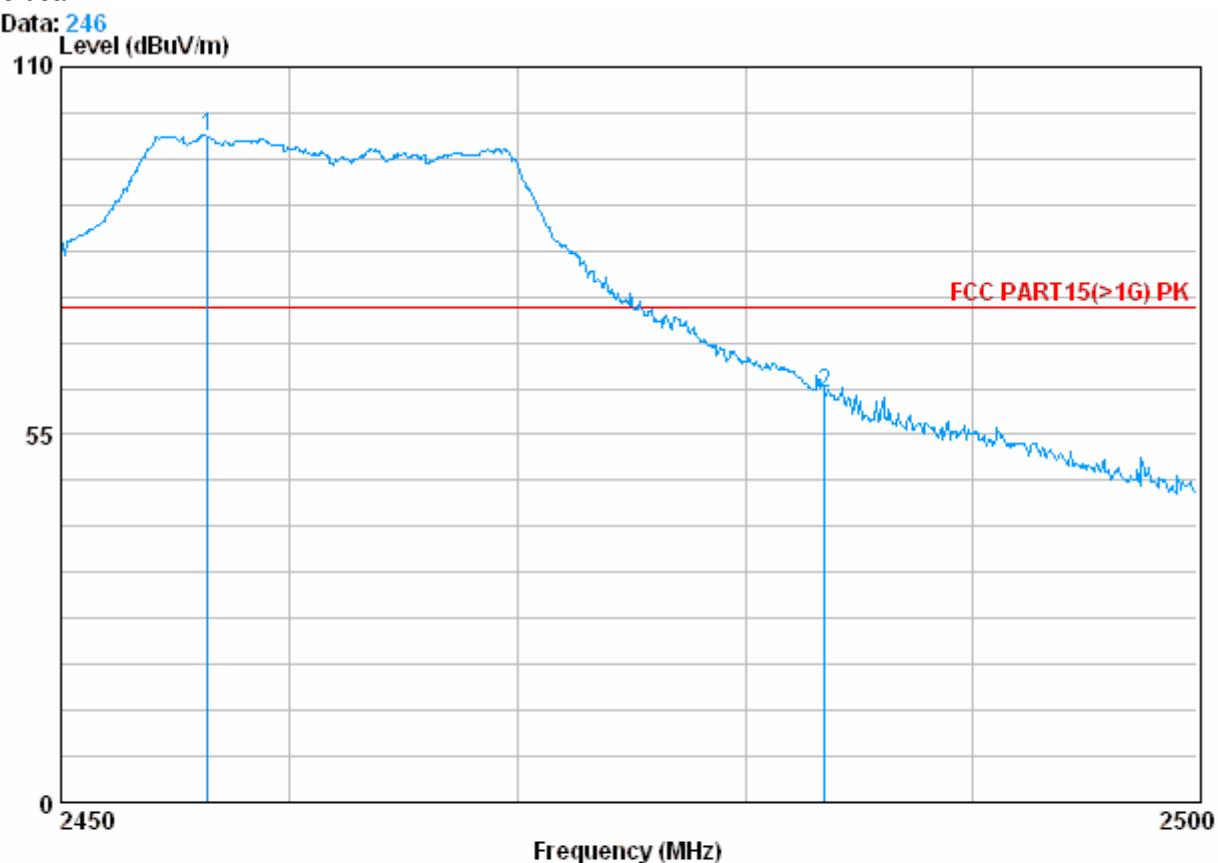
Test mode:	802.11g	Test channel:	Highest	Remark:	Peak
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Horizontal

Data: **2454.800**
Level (dBuV/m)

Freq	Cable			Antenna		Preamp	Read	Limit	Over
	Loss	Antenna	Preamp	Factor	Factor	Level	Level		
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2454.800	6.83	30.22	39.56	103.47	100.96	74.00	26.96	
2	2483.500	6.22	30.32	39.53	64.74	61.75	74.00	-12.25	

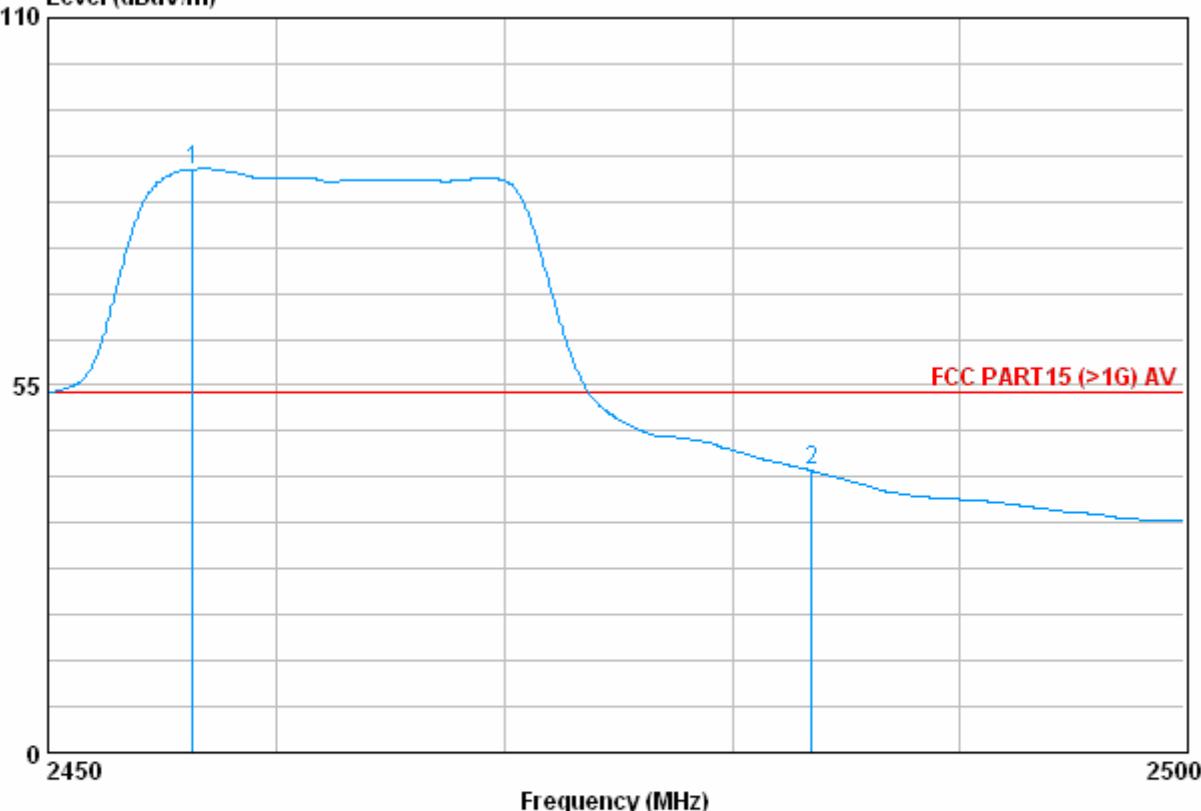
Vertical:



Freq	Cable		Antenna		Preamp		Read		Limit	Line	Over
	Loss	Factor	Factor	Factor	Level	Level	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m			
1 X	2456.400	6.83	30.22	39.56	102.00	99.50	74.00	25.50			
2	2483.500	6.22	30.32	39.53	64.17	61.19	74.00	-12.81			

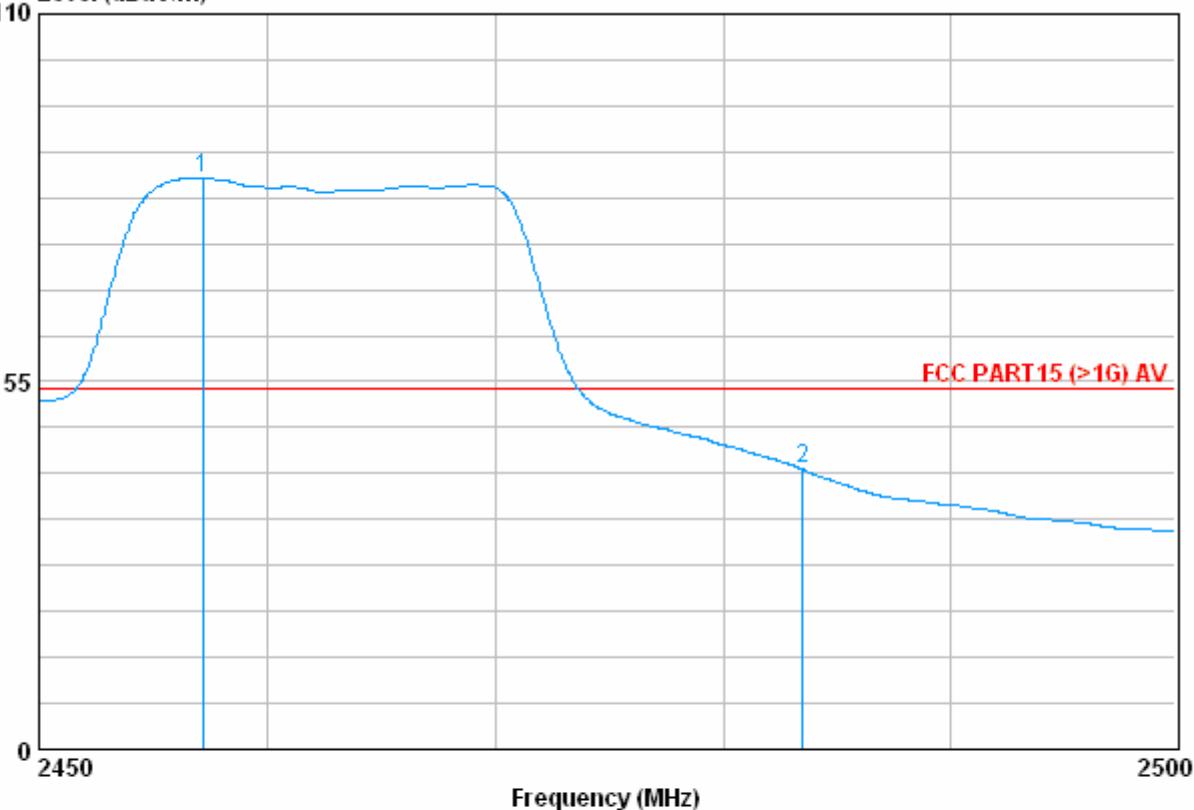
Test mode:	802.11g	Test channel:	Highest	Remark:	Average
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Horizontal:

Data: 244
Level (dBuV/m)

Freq	Cable			Antenna		Preamp	Read	Limit	Over
	Loss	Antenna	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		dB
1 X	2456.300	6.83	30.22	39.56	89.84	87.34	54.00	33.34	
2	2483.500	6.22	30.32	39.53	45.22	42.23	54.00	-11.77	

Vertical:

Data: 245
Level (dBuV/m)

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2457.150	6.83	30.22	39.56	87.91	85.41	54.00	31.41
2	2483.500	6.22	30.32	39.53	44.90	41.91	54.00	-12.09