Report No: GTSE10090020601

FCC REPORT

Applicant:	SHENZHEN VOGUE INDUSTRIES CO., LTD.
Address of Applicant:	Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong Town, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name:	Universe Tablet PC
Model No.:	M-150, PC706
FCC ID:	V97M150
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2009
Date of Receipt:	08 Oct., 2010
Date of Test:	08-29 Oct., 2010
Date of Issue:	29 Oct., 2010
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

2 Contents

Page

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.*
- *Tx: In this whole report Tx (or tx) means Transmitter.*
- *Rx: In this whole report Rx (or rx) means Receiver.*

4 General Information

4.1 Client Information

Applicant:	SHENZHEN VOGUE INDUSTRIES CO., LTD.
Address of Applicant:	Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong Town, Bao'an District, Shenzhen, China
Manufacturer/ Factory:	SHENZHEN VOGUE INDUSTRIES CO., LTD.
Address of Manufacturer/ Factory:	Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong Town, Bao'an District, Shenzhen, China

4.2 General Description of E.U.T.

Product Name:	Universe Tablet PC
Model No.:	M-150, PC706
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 (declare by Applicant)
Power supply:	Input: AC 100-240V 50/60Hz Output: DC 9V 1.5A

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

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in running with full load.(Playing video and audio, connect USB driver, earphone, SD card and network)

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: channel 1

Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	12.25	12.46	12.51	12.77				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps

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:

● **FCC —Registration No.: 600491**

Global United Technology Service Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.5 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.
Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
Tel: 0755-27798480
Fax: 0755-27798960

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (dd-mm-yy)**	**Cal.Due date (dd-mm-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2010	Mar. 30 2011
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Sep. 10 2010	Sep. 10 2011
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Sep. 10 2010	Sep. 10 2011
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2010	June 30 2011
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2010	Apr. 01 2011
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2010	Apr. 01 2011
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2010	Apr. 01 2011
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2010	Apr. 01 2011
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2010	Apr. 01 2011
12	Amplifier(10KHz-5GHz)	Sonnoma Instrument	305-1052	GTS210	Aug. 03 2010	Aug. 03 2011
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS231	Aug. 03 2010	Aug. 03 2011

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	7.0(L)x3.0(W)x3.0(H)	GTS206	Apr. 10 2010	Apr. 10 2011
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Sep. 14 2010	Sep. 14 2011
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	Sep. 14 2010	Sep. 14 2011
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2010	Apr. 14 2011
5	Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2010	Apr. 01 2011
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

5 Test results and Measurement Data

5.1 Antenna requirement:

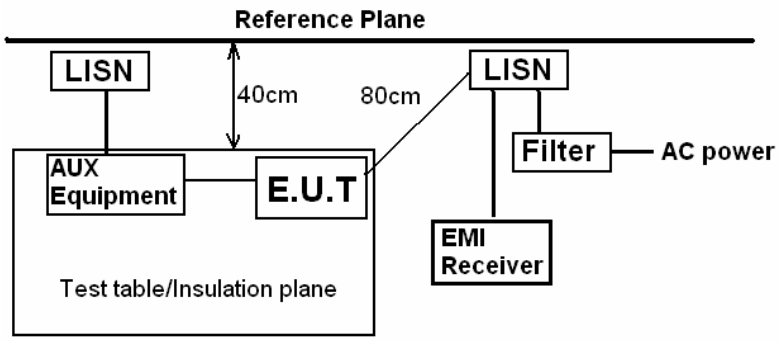
Standard requirement:	FCC Part15 C Section 15.203 /247(c)

15.203 requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(c) (1)(i) requirement:
(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.

E.U.T Antenna:	

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -3.0dBi.

5.2 Conducted Emissions

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4: 2003</td></tr>
<tr><td>Test Frequency Range:</td><td>150KHz to 30MHz</td></tr>
<tr><td>Class / Severity:</td><td>Class B</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9KHz, VBW=30KHz</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<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>
</table>
* Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Test procedure</td><td>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 C63.4: 2003 on conducted measurement.</td></tr>
<tr><td>Test setup:</td><td> 

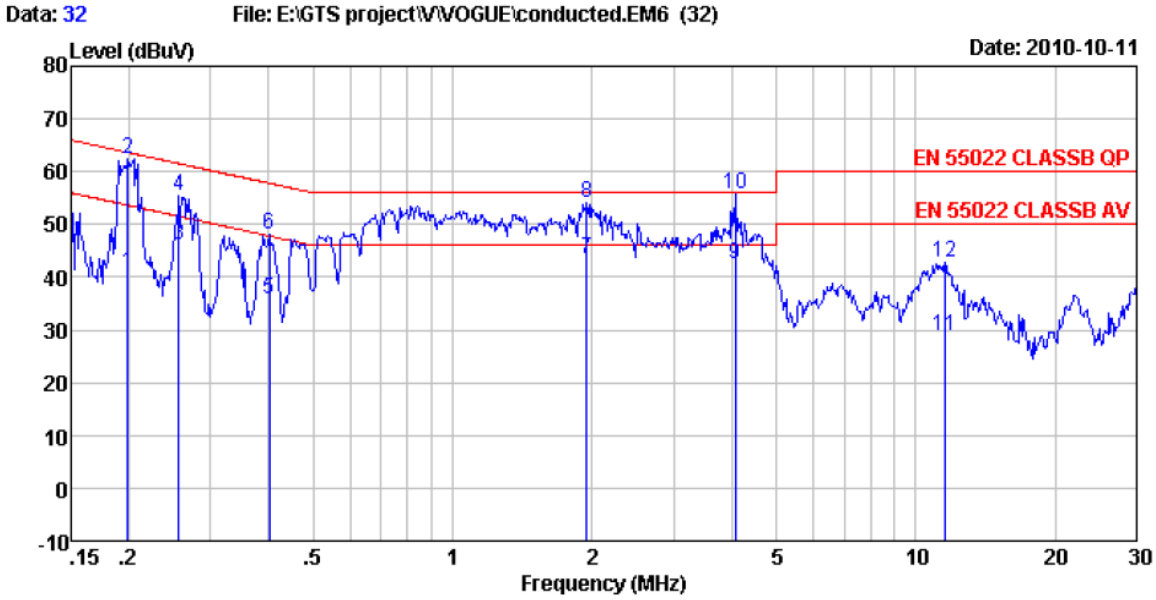
Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 4.7 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 4.3 for details</td></tr>
<tr><td>Test results:</td><td>Passed</td></tr>
</table>

Measurement Data

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

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

Live Line:



Condition : EN 55022 CLASSB QP LISN LINE
Job No. : 206IT
Test Mode : Operation mode
Test Engineer: Taik

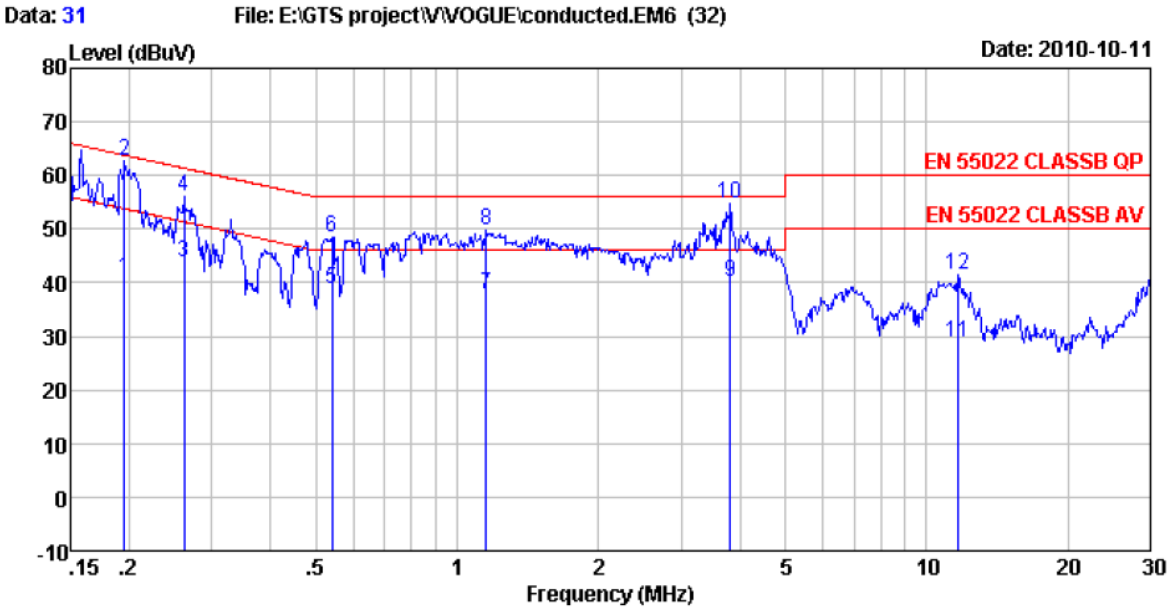
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.199	37.20	3.66	0.01	40.87	53.67	-12.80	Average
2	0.199	58.76	3.66	0.01	62.43	63.67	-1.24	QP
3	0.256	42.36	3.63	0.01	46.00	51.56	-5.56	Average
4	0.256	51.91	3.63	0.01	55.55	61.56	-6.01	QP
5	0.402	32.35	3.58	0.01	35.94	47.81	-11.87	Average
6	0.402	44.54	3.58	0.01	48.13	57.81	-9.68	QP
7	1.949	40.10	3.40	0.11	43.61	46.00	-2.39	Average
8	1.949	50.63	3.40	0.11	54.14	56.00	-1.86	QP
9	4.070	38.90	3.32	0.28	42.50	46.00	-3.50	Average
10	4.070	52.00	3.32	0.28	55.60	56.00	-0.40	QP
11	11.559	25.36	3.21	0.41	28.98	50.00	-21.02	Average
12	11.559	39.13	3.21	0.41	42.75	60.00	-17.25	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:



Condition : EN 55022 CLASSB QP LISN NEUTRAL
Job No. : 206IT
Test Mode : Operation mode
Test Engineer: Taik

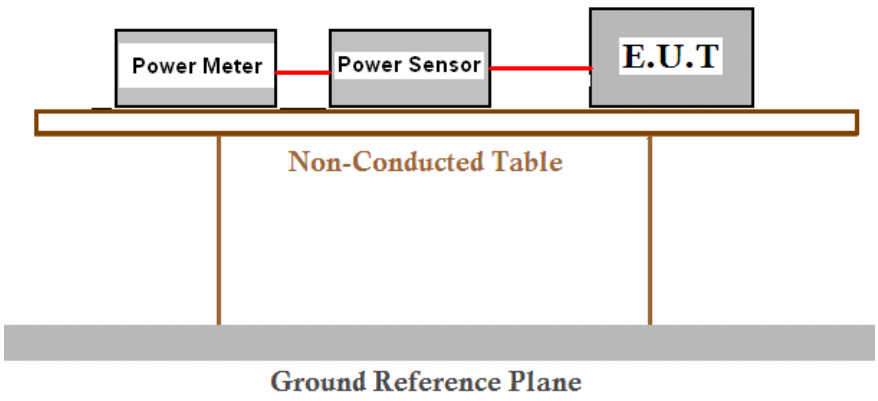
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.195	37.20	3.66	0.01	40.87	53.80	-12.93	Average
2	0.195	59.20	3.66	0.01	62.87	63.80	-0.93	QP
3	0.262	40.33	3.63	0.01	43.97	51.38	-7.41	Average
4	0.262	52.33	3.63	0.01	55.97	61.38	-5.41	QP
5	0.541	35.26	3.55	0.01	38.82	46.00	-7.18	Average
6	0.541	44.87	3.55	0.01	48.43	56.00	-7.57	QP
7	1.153	34.26	3.46	0.01	37.73	46.00	-8.27	Average
8	1.153	46.18	3.46	0.01	49.65	56.00	-6.35	QP
9	3.820	36.70	3.33	0.26	40.29	46.00	-5.71	Average
10	3.820	51.03	3.33	0.26	54.62	56.00	-1.38	QP
11	11.621	25.36	3.21	0.41	28.98	50.00	-21.02	Average
12	11.621	37.88	3.21	0.41	41.50	60.00	-18.50	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.

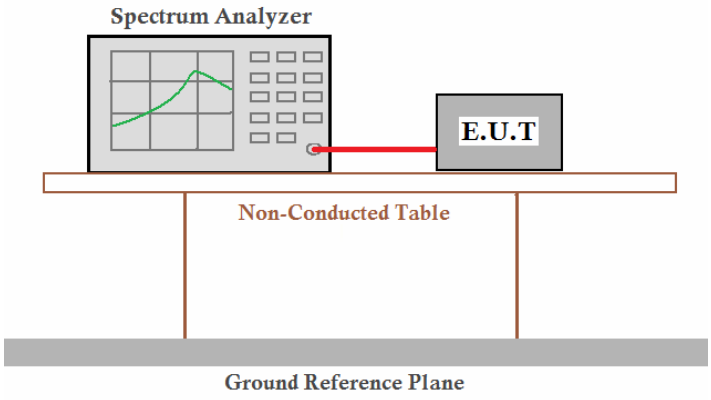
5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test procedure:	A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	12.77	30.00	Pass
Middle	12.28	30.00	Pass
Highest	11.82	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.79	30.00	Pass
Middle	10.31	30.00	Pass
Highest	10.24	30.00	Pass

5.4 6dB Occupy Bandwidth

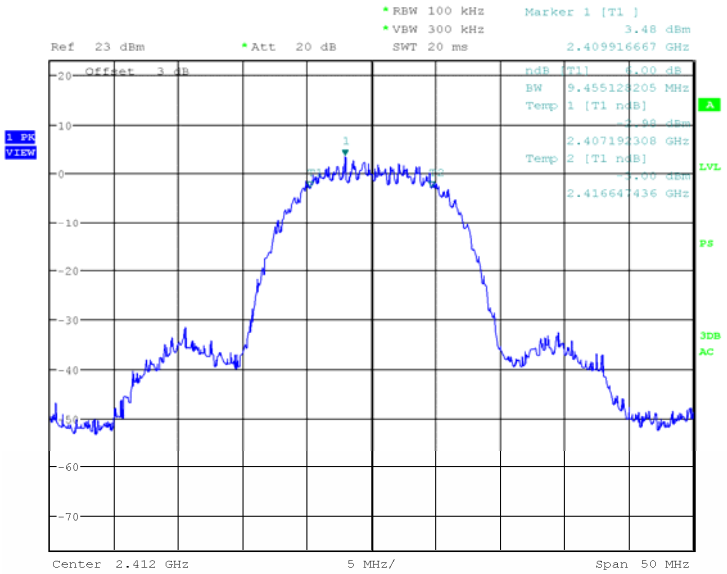
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	9.455	>500	Pass
Middle	10.657	>500	Pass
Highest	10.576	>500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	16.586	>500	Pass
Middle	16.506	>500	Pass
Highest	16.586	>500	Pass

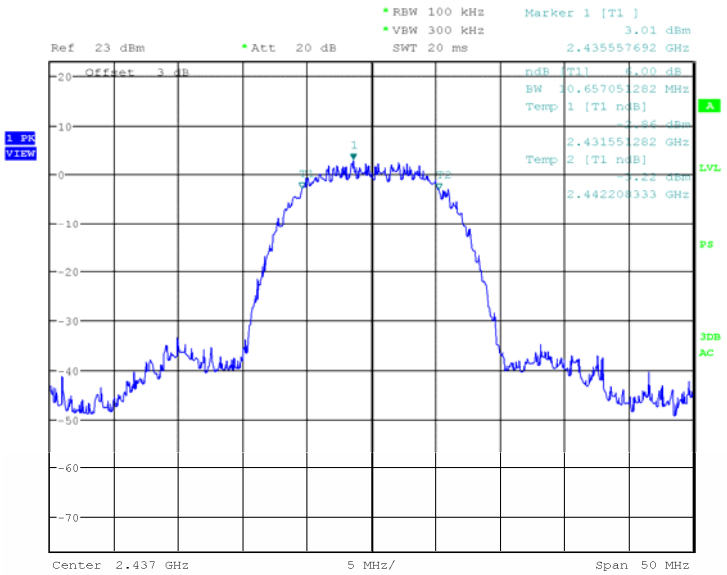
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest



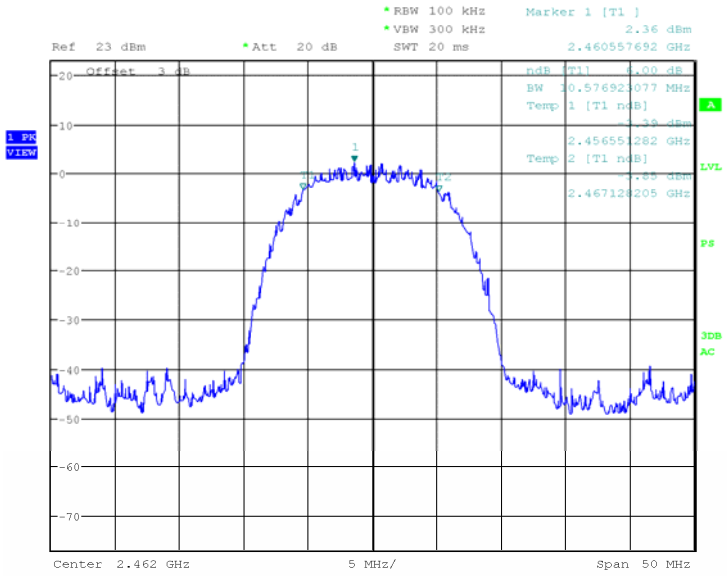
Date: 29.OCT.2010 20:01:55

Test mode:	802.11b	Test channel:	Middle

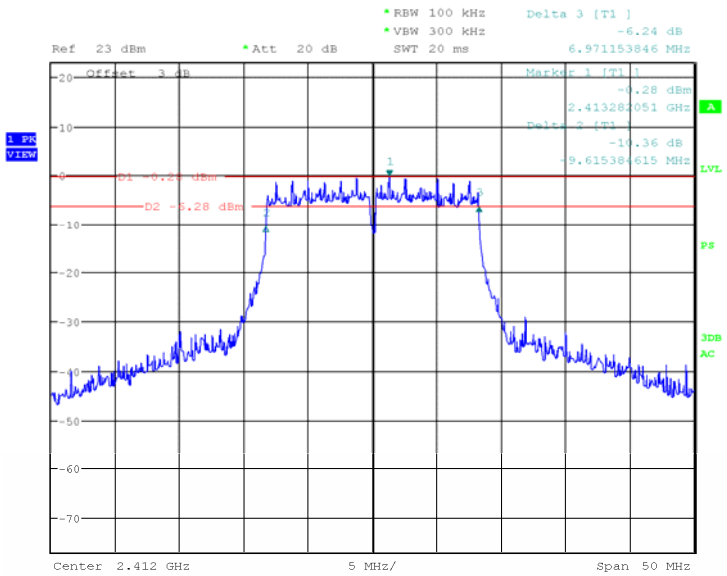


Date: 29.OCT.2010 20:12:29

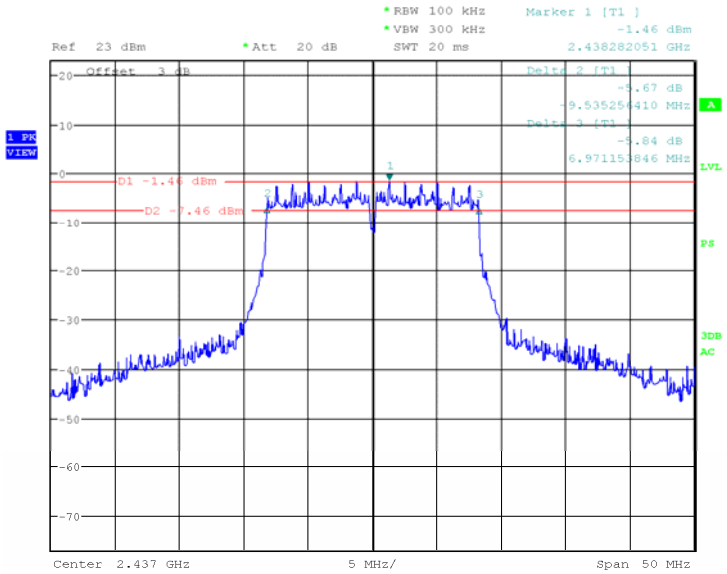
Test mode:	802.11b	Test channel:	Highest



Test mode:	802.11g	Test channel:	Lowest

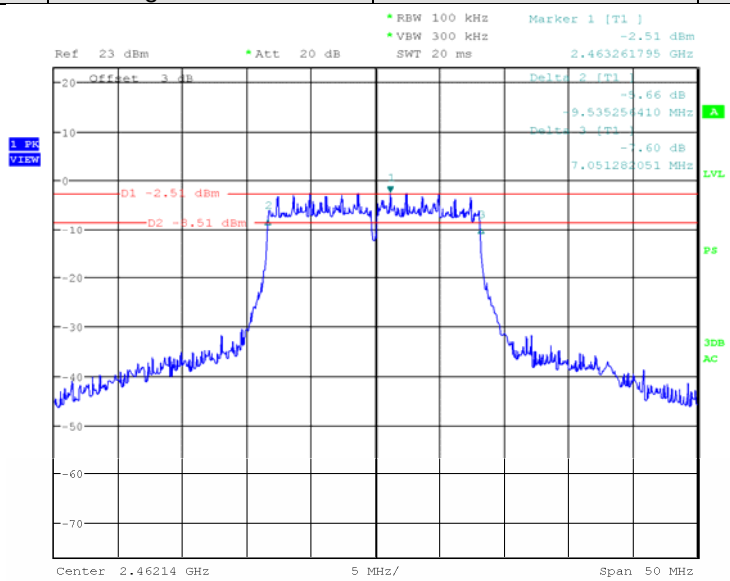


Test mode:	802.11g	Test channel:	Middle



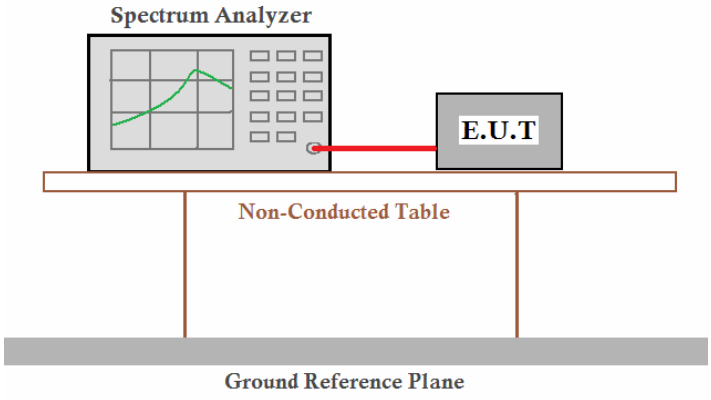
Date: 29.OCT.2010 20:35:07

Test mode:	802.11g	Test channel:	Highest



Date: 29.OCT.2010 20:23:38

5.5 Power Spectral Density

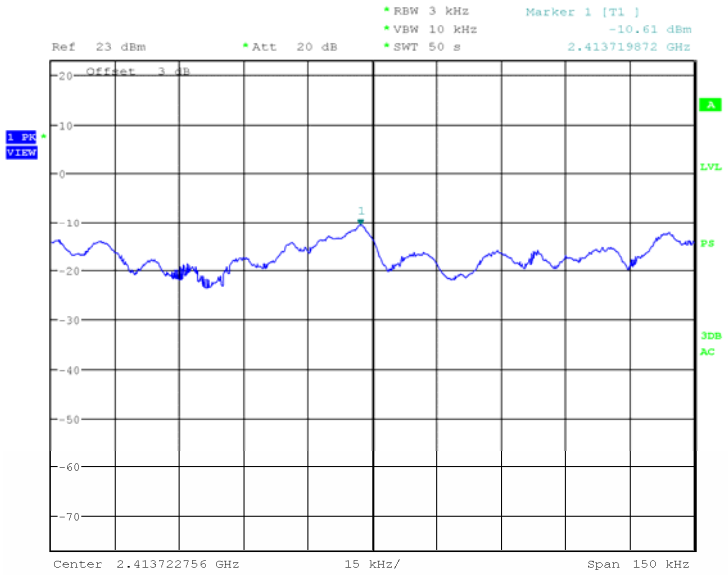
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	8dBm
Test setup:	 *Remark:* *Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.*
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-10.61	8.00	Pass
Middle	-14.57	8.00	Pass
Highest	-14.60	8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-16.23	8.00	Pass
Middle	-10.82	8.00	Pass
Highest	-18.24	8.00	Pass

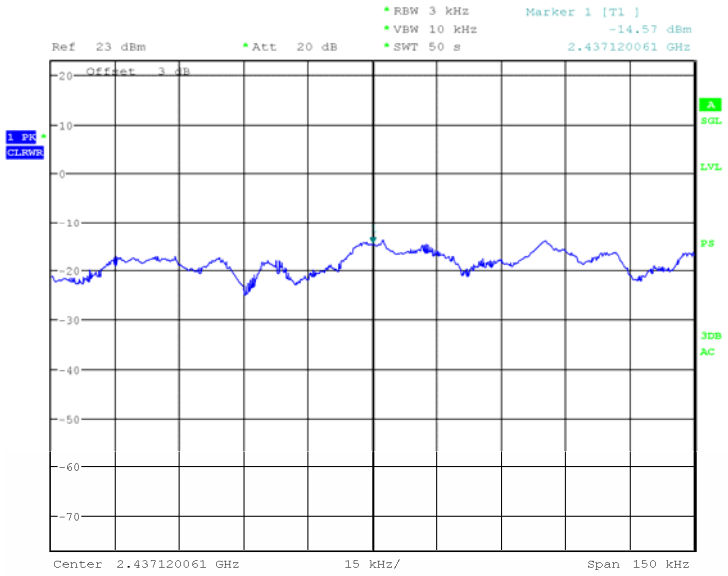
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest



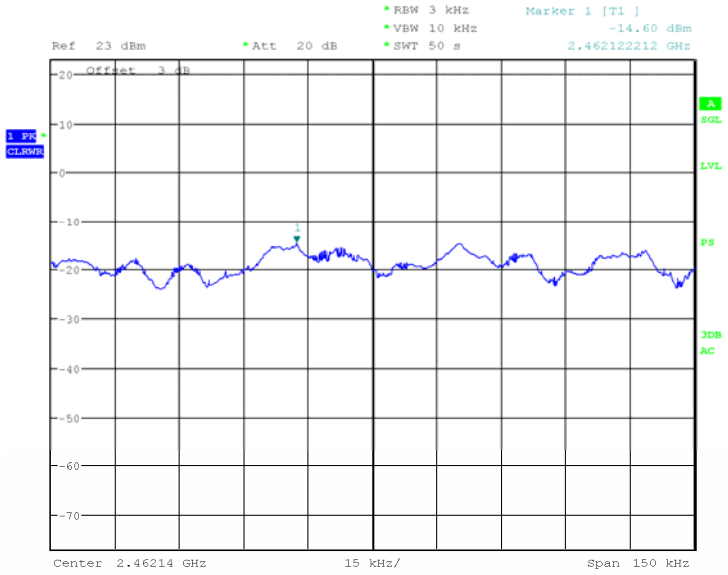
Date: 29.OCT.2010 20:10:53

Test mode:	802.11b	Test channel:	Middle

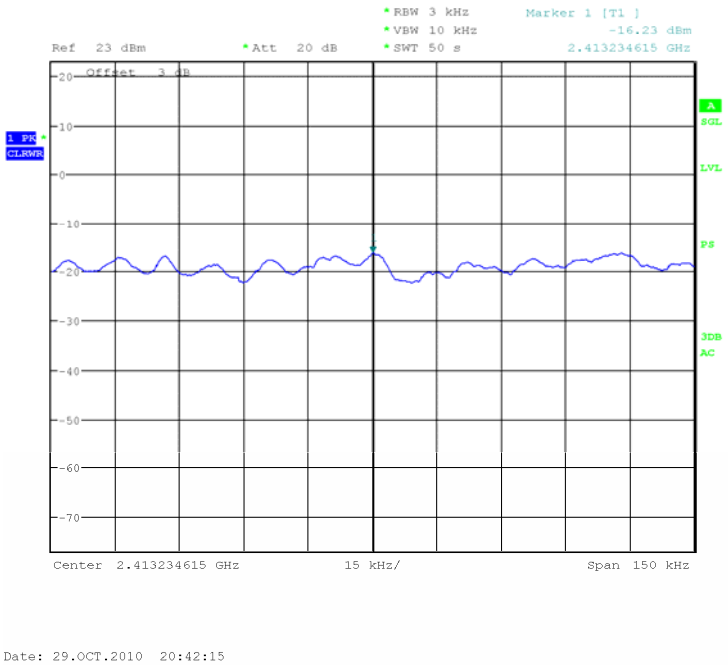


Date: 29.OCT.2010 20:16:46

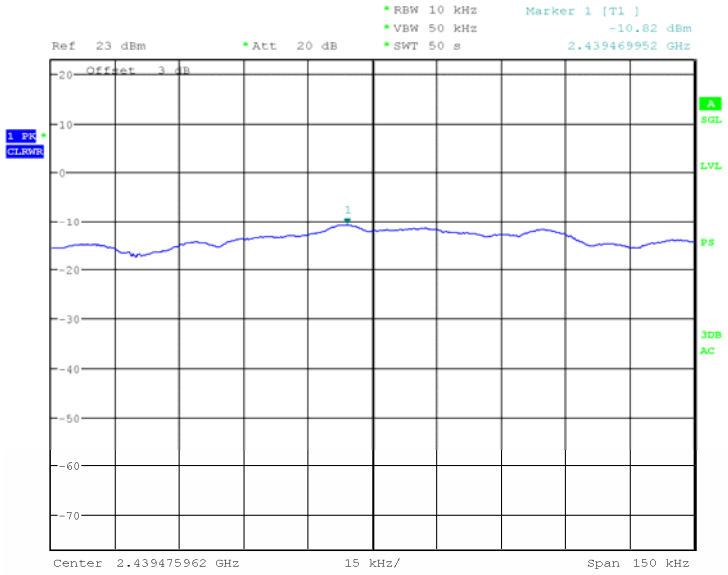
Test mode:	802.11b	Test channel:	Highest



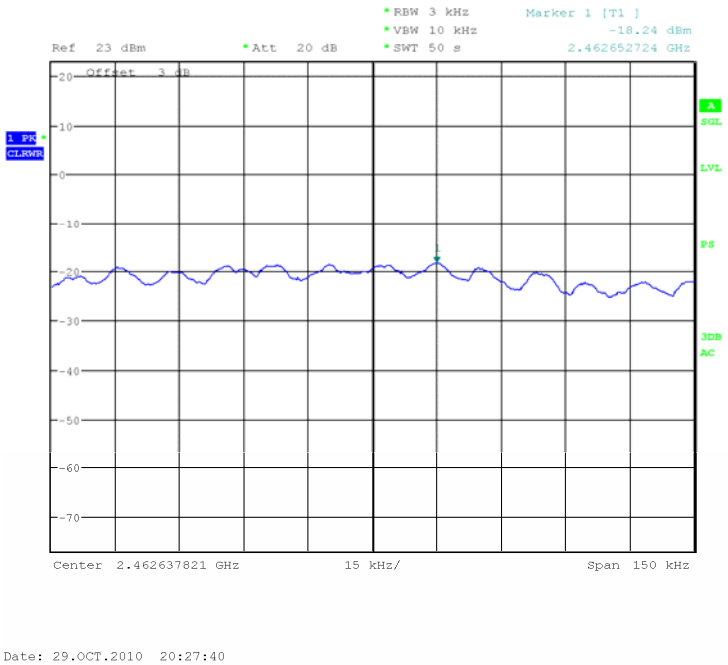
Test mode:	802.11g	Test channel:	Lowest



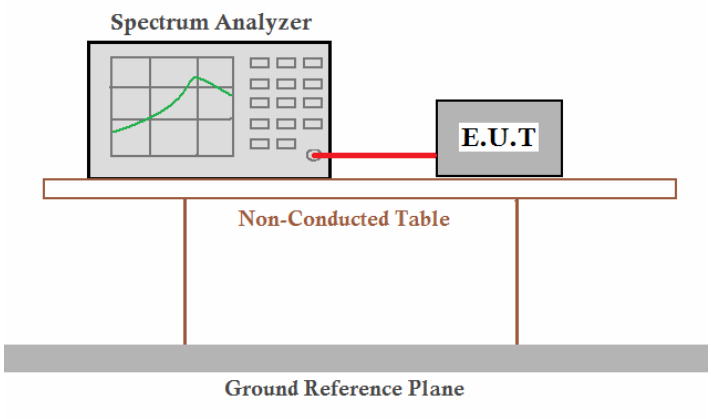
Test mode:	802.11g	Test channel:	Middle



Test mode:	802.11g	Test channel:	Highest

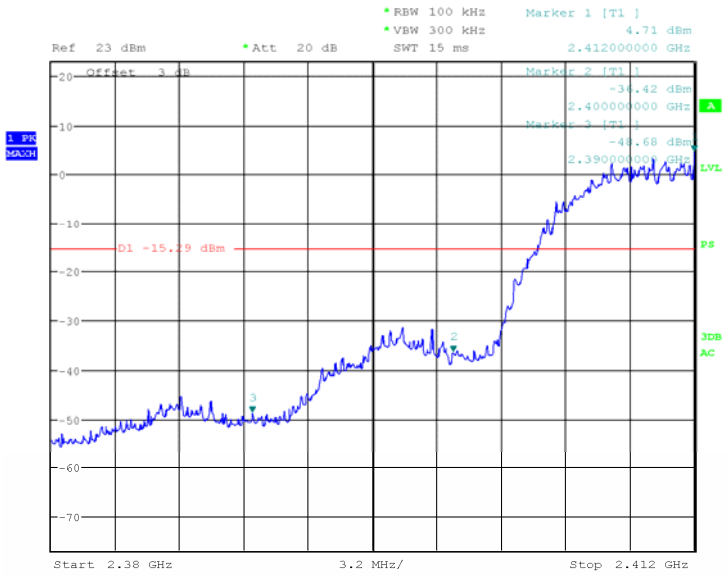


5.6 Band Edge

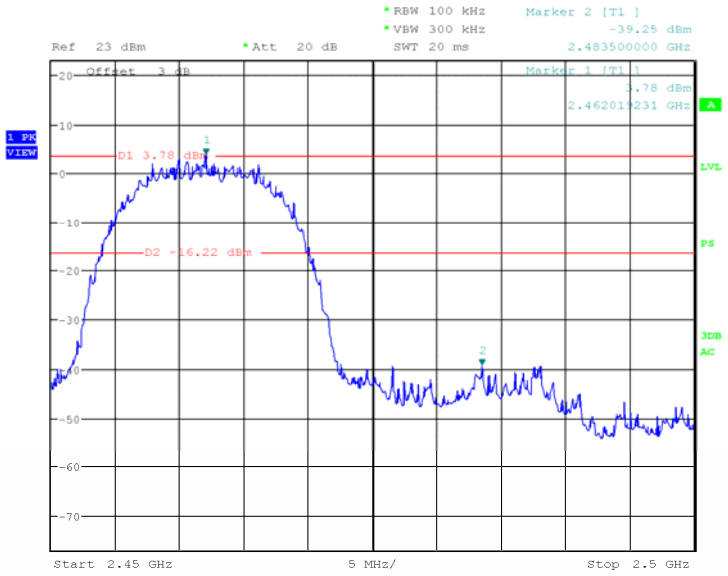
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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:	 *Remark:* *Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.*
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Test plot as follows:

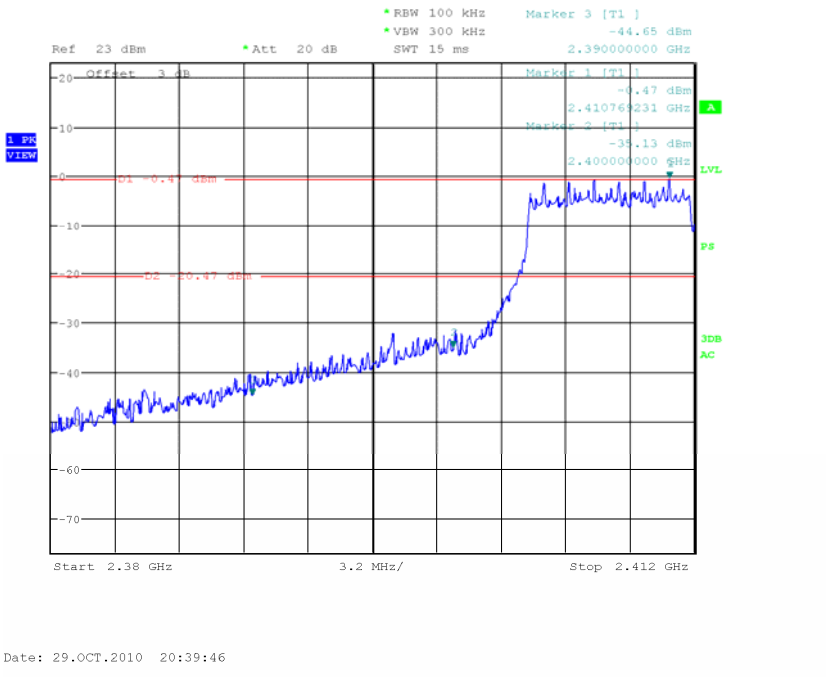
Test mode:	802.11b	Test channel:	Lowest



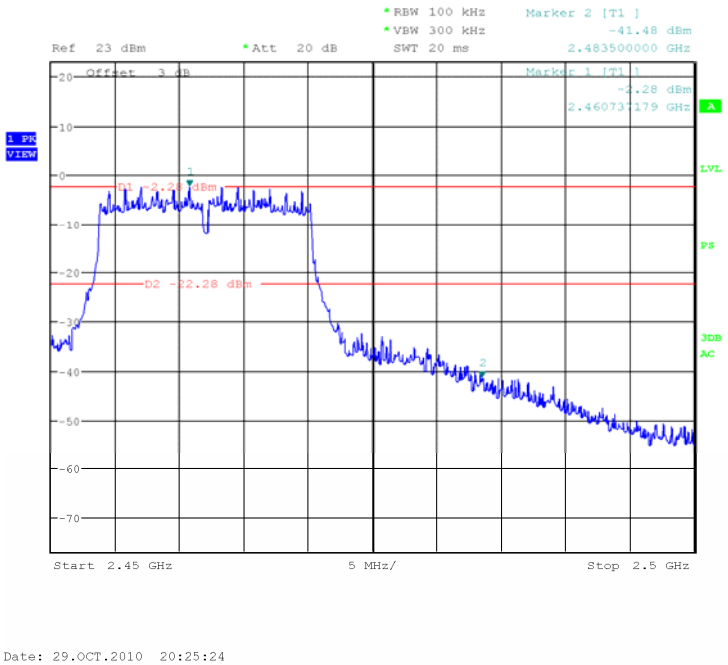
Test mode:	802.11b	Test channel:	Highest



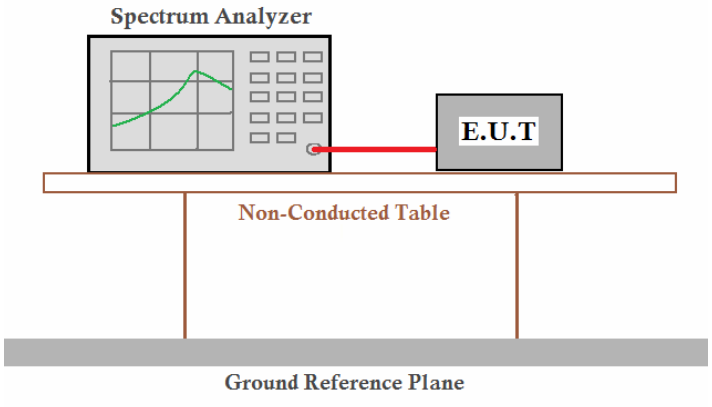
Test mode:	802.11g	Test channel:	Lowest



Test mode:	802.11g	Test channel:	Highest

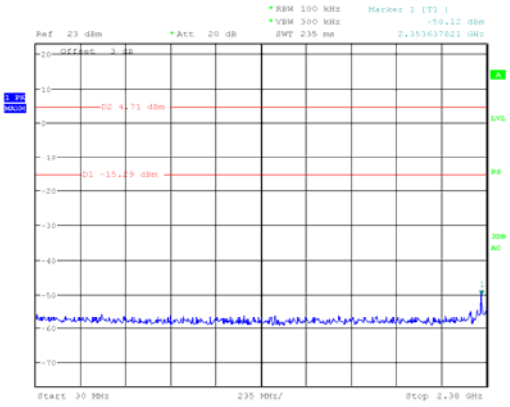


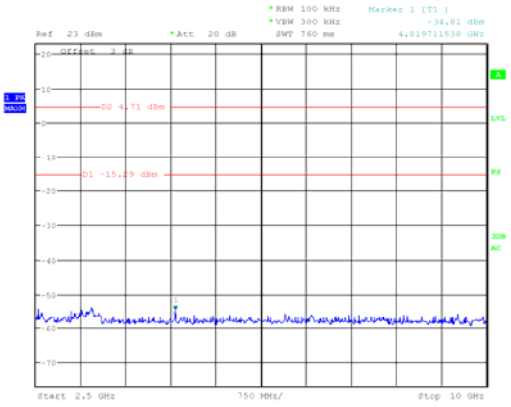
5.7 RF Antenna Conducted spurious emissions

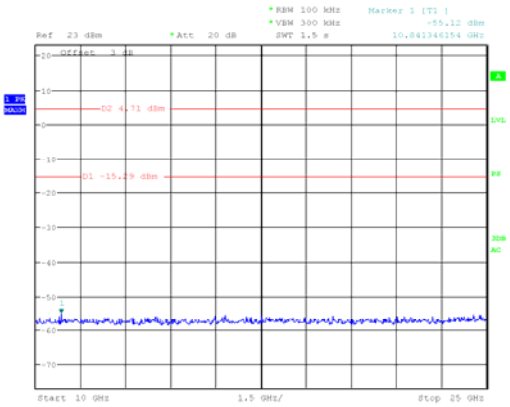
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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:	 *Remark:* *Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.*
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Test plot as follows:

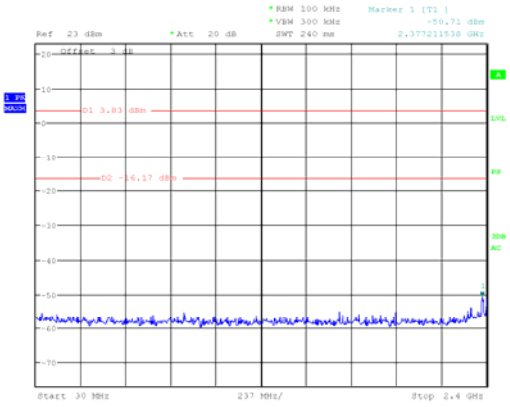
Test mode:	802.11b	Test channel:	Lowest

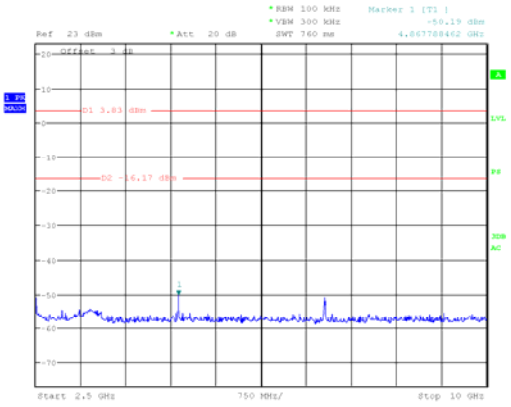


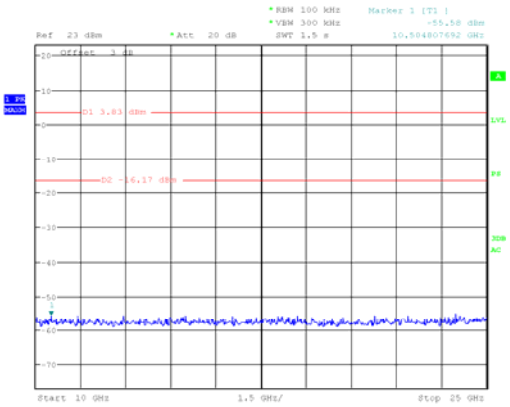




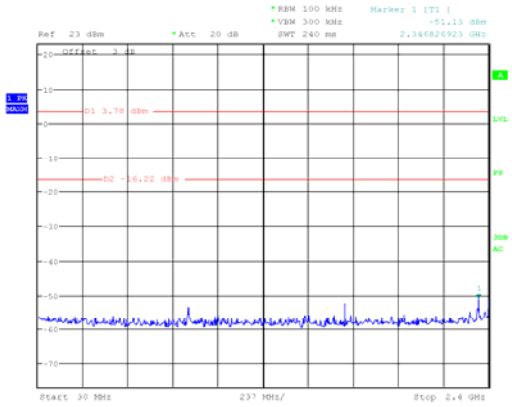
Test mode:	802.11b	Test channel:	Middle

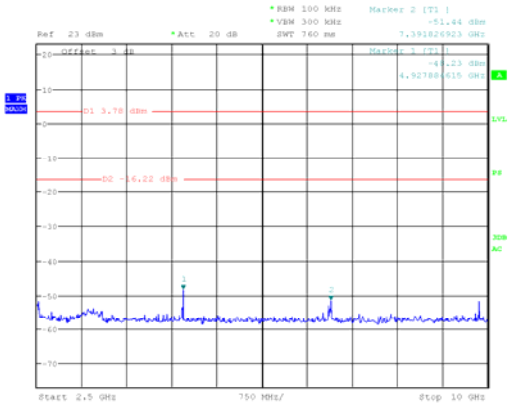


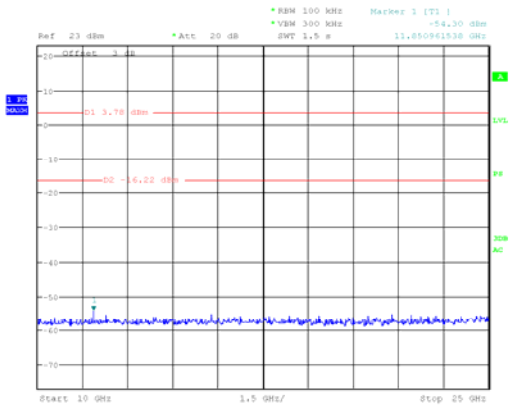




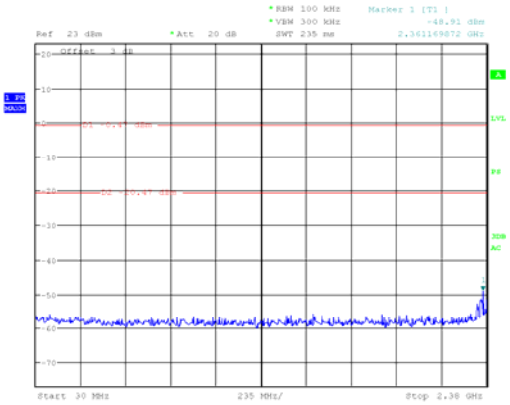
Test mode:	802.11b	Test channel:	Highest

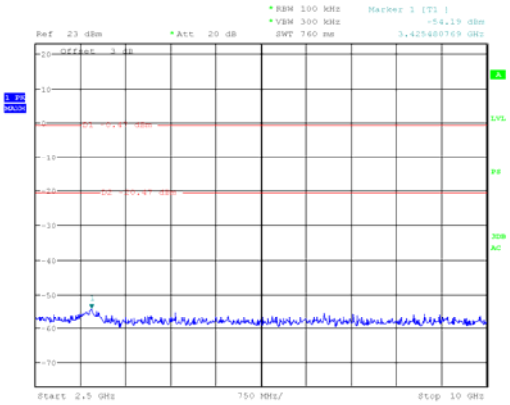


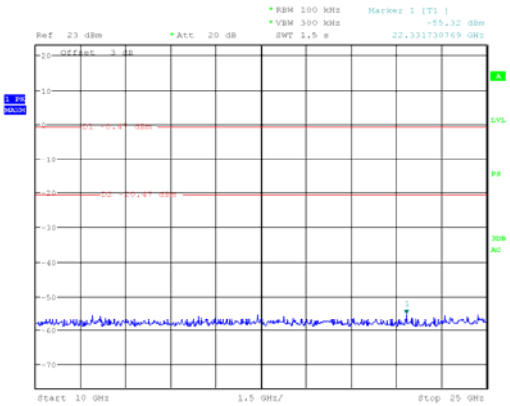




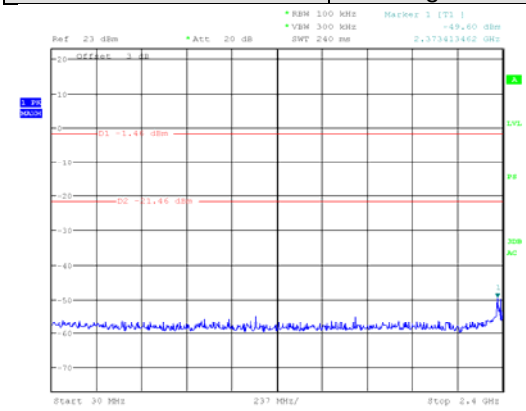
Test mode:	802.11g	Test channel:	Lowest

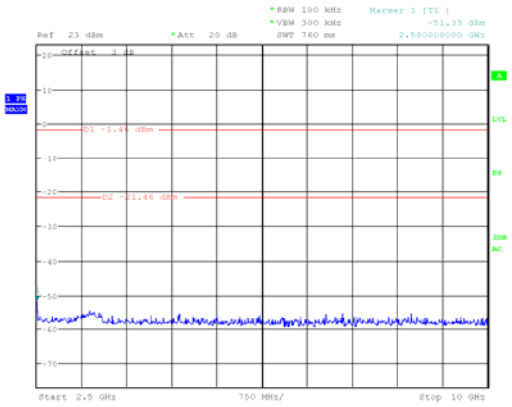


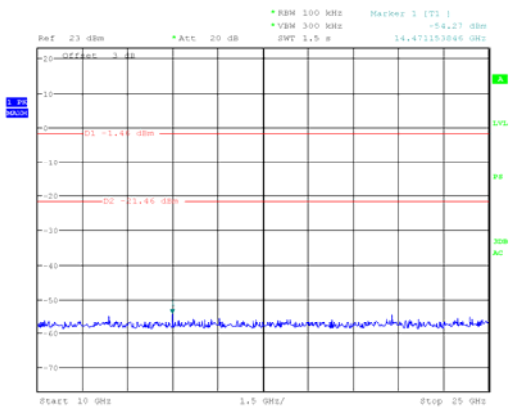




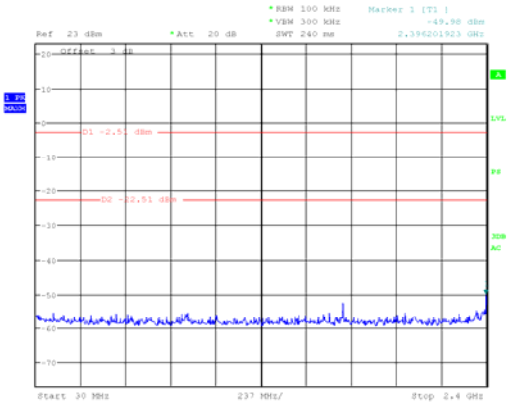
Test mode:	802.11g	Test channel:	Middle

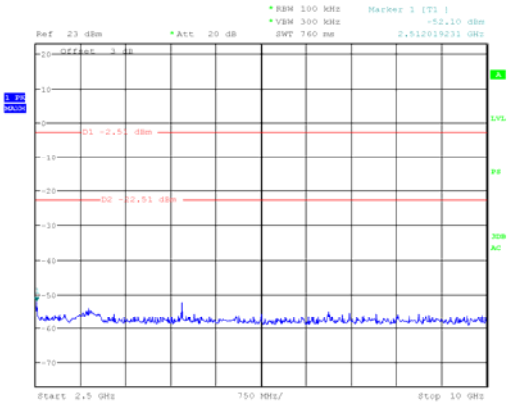


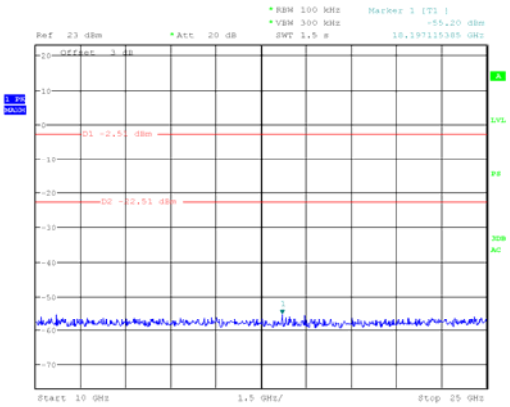




Test mode:	802.11g	Test channel:	Highest

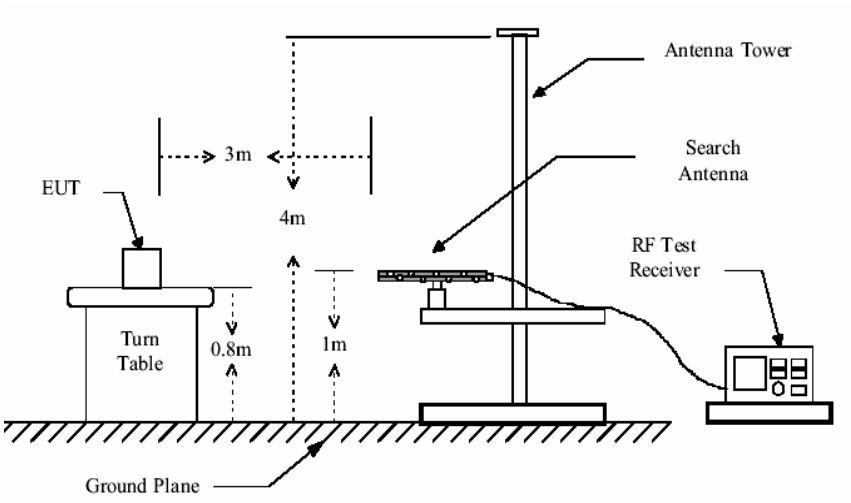




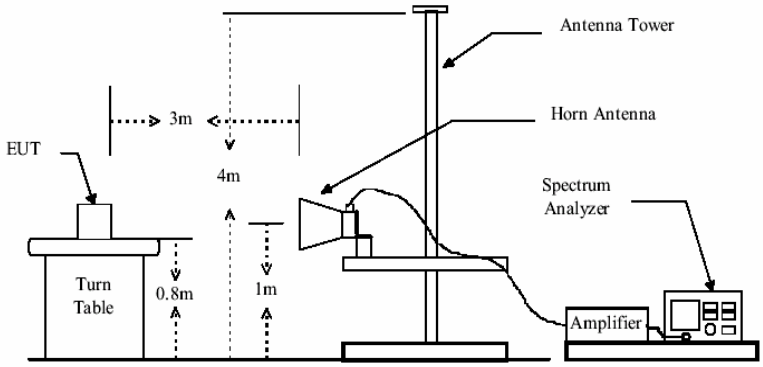


5.8 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4: 2003</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<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>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<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>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz</td></tr>
</table>



Above 1GHz



Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
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

Test in WIFI mode.

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
49.19	49.64	14.16	0.67	25.72	38.75	40.00	-1.25	Vertical
74.92	51.09	12.08	0.89	25.69	38.37	40.00	-1.63	Vertical
135.03	56.33	9.75	1.42	25.64	41.86	43.50	-1.64	Vertical
258.33	53.38	15.01	1.97	25.60	44.76	46.00	-1.24	Vertical
552.88	47.57	19.58	2.57	25.54	44.18	46.00	-1.82	Vertical
776.88	43.22	23.69	3.10	25.52	44.49	46.00	-1.51	Vertical
74.92	56.34	7.53	0.89	25.69	39.07	40.00	-0.93	Horizontal
135.03	56.17	10.71	1.42	25.64	42.66	43.50	-0.84	Horizontal
258.33	55.08	13.22	1.97	25.60	44.67	46.00	-1.33	Horizontal
307.83	53.61	14.17	2.09	25.59	44.28	46.00	-1.72	Horizontal
528.25	46.85	20.91	2.50	25.55	44.71	46.00	-1.29	Horizontal
726.81	38.23	29.25	2.99	25.52	44.95	46.00	-1.05	Horizontal

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
2327.75	6.02	29.76	39.75	43.21	39.24	74.00	-34.76	Vertical
2398.25	6.34	30.03	38.87	40.80	38.30	74.00	-35.70	Vertical
2400.00	6.34	30.03	38.87	42.42	39.92	74.00	-34.08	Vertical
4924.50	10.53	34.41	40.90	45.41	49.45	74.00	-24.55	Vertical
5911.50	13.07	35.70	41.96	44.21	51.02	74.00	-22.98	Vertical
8555.25	13.10	37.76	38.00	43.29	56.15	74.00	-17.85	Vertical
2327.75	6.02	29.76	39.75	41.87	37.90	74.00	-36.10	Horizontal
2398.25	6.34	30.03	38.87	39.19	36.69	74.00	-37.31	Horizontal
2400.00	6.34	30.03	38.87	42.39	39.89	74.00	-34.11	Horizontal
5676.50	12.82	35.41	42.01	44.53	50.75	74.00	-23.25	Horizontal
7756.25	14.01	37.57	39.56	43.16	55.18	74.00	-18.82	Horizontal
10341.25	14.20	38.17	36.75	40.54	56.16	74.00	-17.84	Horizontal

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average			
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
2351.25	6.14	29.86	39.43	29.95	26.52	54.00	-27.48	Vertical
2398.25	6.34	30.03	38.87	27.81	25.31	54.00	-28.69	Vertical
2400.00	6.34	30.03	38.87	29.77	27.27	54.00	-26.73	Vertical
3044.50	7.08	31.96	39.41	29.68	29.31	54.00	-24.69	Vertical
6792.75	13.47	36.85	40.18	30.21	40.35	54.00	-13.65	Vertical
8884.25	13.30	37.79	37.31	28.36	42.14	54.00	-11.86	Vertical
2339.50	6.08	29.81	39.59	29.57	25.87	54.00	-28.13	Horizontal
2398.25	6.34	30.03	38.87	27.40	24.90	54.00	-29.10	Horizontal
2400.00	6.34	30.03	38.87	29.34	26.84	54.00	-27.16	Horizontal
4489.75	8.86	33.83	39.62	29.32	32.39	54.00	-21.61	Horizontal
6945.50	13.69	37.05	40.86	29.49	39.37	54.00	-14.63	Horizontal
9095.75	13.38	37.83	38.00	27.39	40.60	54.00	-13.40	Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak			
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
2339.50	6.08	29.81	39.59	42.13	38.43	74.00	-35.57	Vertical
3138.50	7.31	32.09	39.71	44.59	44.28	74.00	-29.72	Vertical
4877.50	10.36	34.34	39.89	43.99	48.80	74.00	-25.20	Vertical
6240.50	14.45	36.14	41.65	45.84	54.78	74.00	-19.22	Vertical
7791.50	14.18	37.58	39.61	43.71	55.86	74.00	-18.14	Vertical
10623.25	14.91	38.23	36.65	40.13	56.62	74.00	-17.38	Vertical
2327.75	6.02	29.76	39.75	48.75	44.78	74.00	-29.22	Horizontal
3855.25	7.72	32.94	40.04	43.97	44.59	74.00	-29.41	Horizontal
5676.50	12.82	35.41	42.01	44.68	50.90	74.00	-23.10	Horizontal
7850.25	13.97	37.62	39.74	44.50	56.35	74.00	-17.65	Horizontal
8872.50	13.24	37.79	37.36	42.16	55.83	74.00	-18.17	Horizontal
10752.50	14.89	38.25	36.99	40.37	56.52	74.00	-17.48	Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Average

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
2339.50	6.08	29.81	39.59	35.64	31.94	54.00	-22.06	Vertical
3138.50	7.31	32.09	39.71	34.88	34.57	54.00	-19.43	Vertical
4877.50	10.36	34.34	39.89	32.84	37.65	54.00	-16.35	Vertical
6240.50	14.45	36.14	41.65	30.55	39.49	54.00	-14.51	Vertical
7791.50	14.18	37.58	39.61	29.75	41.90	54.00	-12.10	Vertical
10623.25	14.91	38.23	36.65	26.85	43.34	54.00	-10.66	Vertical
2339.50	6.08	29.81	39.59	29.81	26.11	54.00	-27.89	Horizontal
3079.75	7.39	32.01	39.77	29.59	29.22	54.00	-24.78	Horizontal
5147.75	11.27	34.71	41.19	29.52	34.31	54.00	-19.69	Horizontal
6358.00	14.42	36.29	41.52	30.44	39.63	54.00	-14.37	Horizontal
7791.50	14.18	37.58	39.61	29.99	42.14	54.00	-11.86	Horizontal
10693.75	14.90	38.24	36.82	26.46	42.78	54.00	-11.22	Horizontal

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
2327.75	6.02	29.76	39.75	42.95	38.98	74.00	-35.02	Vertical
2483.50	6.22	30.32	39.53	57.61	54.62	74.00	-19.38	Vertical
2492.25	5.99	30.35	39.34	42.88	39.88	74.00	-34.12	Vertical
4889.25	10.57	34.35	40.33	46.46	51.05	74.00	-22.95	Vertical
6240.50	14.45	36.14	41.65	46.20	55.14	74.00	-18.86	Vertical
10670.25	14.90	38.23	36.74	41.69	58.08	74.00	-15.92	Vertical
2339.50	6.08	29.81	39.59	45.72	42.02	74.00	-31.98	Horizontal
2483.50	6.22	30.32	39.53	46.24	43.25	74.00	-30.75	Horizontal
2492.25	5.99	30.35	39.34	42.93	39.93	74.00	-34.07	Horizontal
5265.25	11.79	34.87	41.18	44.47	49.95	74.00	-24.05	Horizontal
7897.25	13.60	37.65	39.82	45.63	57.06	74.00	-16.94	Horizontal
10576.25	14.80	38.22	36.49	40.42	56.95	74.00	-17.05	Horizontal

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

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
2327.75	6.02	29.76	39.75	30.73	26.76	54.00	-27.24	Vertical
2483.50	6.22	30.32	39.53	33.29	30.30	54.00	-23.70	Vertical
2492.25	5.99	30.35	39.34	30.27	27.27	54.00	-26.73	Vertical
6792.75	13.47	36.85	40.18	31.07	41.21	54.00	-12.79	Vertical
7803.25	14.34	37.60	39.65	30.68	42.97	54.00	-11.03	Vertical
12174.25	18.03	39.21	39.27	27.01	44.98	54.00	-9.02	Vertical
2351.25	6.14	29.86	39.43	30.19	26.76	54.00	-27.24	Horizontal
2483.50	6.22	30.32	39.53	32.91	29.92	54.00	-24.08	Horizontal
2492.25	5.99	30.35	39.34	29.90	26.90	54.00	-27.10	Horizontal
6369.75	14.42	36.32	41.50	30.82	40.06	54.00	-13.94	Horizontal
7803.25	14.34	37.60	39.65	30.29	42.58	54.00	-11.42	Horizontal
12174.25	18.03	39.21	39.27	26.68	44.65	54.00	-9.35	Horizontal

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
2327.75	6.02	29.76	39.75	42.84	38.87	74.00	-35.13	Vertical
2398.25	6.34	30.03	38.87	41.70	39.20	74.00	-34.80	Vertical
2400.00	6.34	30.03	38.87	42.34	39.84	74.00	-34.16	Vertical
7791.50	14.18	37.58	39.61	44.59	56.74	74.00	-17.26	Vertical
9530.50	13.59	37.96	37.34	42.18	56.39	74.00	-17.61	Vertical
12021.50	16.45	39.10	39.09	41.25	57.71	74.00	-16.29	Vertical
2316.00	6.00	29.74	39.83	42.43	38.34	74.00	-35.66	Horizontal
2398.25	6.34	30.03	38.87	47.22	44.72	74.00	-29.28	Horizontal
2400.00	6.34	30.03	38.87	49.18	46.68	74.00	-27.32	Horizontal
5265.25	11.79	34.87	41.18	43.54	49.02	74.00	-24.98	Horizontal
7791.50	14.18	37.58	39.61	43.34	55.49	74.00	-18.51	Horizontal
10517.50	14.58	38.20	36.32	39.75	56.21	74.00	-17.79	Horizontal

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average			
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
2351.25	6.14	29.86	39.43	29.86	26.43	54.00	-27.57	Vertical
2398.25	6.34	30.03	38.87	28.74	26.24	54.00	-27.76	Vertical
2400.00	6.34	30.03	38.87	29.69	27.19	54.00	-26.81	Vertical
7803.25	14.34	37.60	39.65	29.93	42.22	54.00	-11.78	Vertical
8884.25	13.30	37.79	37.31	28.40	42.18	54.00	-11.82	Vertical
12174.25	18.03	39.21	39.27	26.16	44.13	54.00	-9.87	Vertical
2327.75	6.02	29.76	39.75	29.43	25.46	54.00	-28.54	Horizontal
2398.25	6.34	30.03	38.87	28.17	25.67	54.00	-28.33	Horizontal
2400.00	6.34	30.03	38.87	29.12	26.62	54.00	-27.38	Horizontal
6181.75	14.35	36.05	41.73	29.91	38.58	54.00	-15.42	Horizontal
7791.50	14.18	37.58	39.61	29.35	41.50	54.00	-12.50	Horizontal
10693.75	14.90	38.24	36.82	25.78	42.10	54.00	-11.90	Horizontal

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
2327.75	6.02	29.76	39.75	48.41	44.44	74.00	-29.56	Vertical
3150.25	7.27	32.10	39.67	44.01	43.71	74.00	-30.29	Vertical
5218.25	11.74	34.81	41.19	44.64	50.00	74.00	-24.00	Vertical
6757.50	13.41	36.81	40.34	44.56	54.44	74.00	-19.56	Vertical
7650.50	13.19	37.50	39.53	45.26	56.42	74.00	-17.58	Vertical
10517.50	14.58	38.20	36.32	40.54	57.00	74.00	-17.00	Vertical
2327.75	6.02	29.76	39.75	43.18	39.21	74.00	-34.79	Horizontal
2715.50	6.23	31.07	39.03	44.12	42.39	74.00	-31.61	Horizontal
3925.75	7.94	33.02	40.03	43.79	44.72	74.00	-29.28	Horizontal
6052.50	13.51	35.87	41.84	44.83	52.37	74.00	-21.63	Horizontal
7756.25	14.01	37.57	39.56	43.67	55.69	74.00	-18.31	Horizontal
10623.25	14.91	38.23	36.65	39.76	56.25	74.00	-17.75	Horizontal

Test mode:	802.11g	Test channel:	Middle	Remark:	Average		
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
2351.25	6.14	29.86	39.43	29.98	26.55	54.00	-27.45	Vertical
3573.25	8.21	32.63	40.68	29.90	30.06	54.00	-23.94	Vertical
6205.25	14.46	36.09	41.69	30.73	39.59	54.00	-14.41	Vertical
7826.75	14.16	37.61	39.69	30.15	42.23	54.00	-11.77	Vertical
10541.00	14.69	38.21	36.40	26.74	43.24	54.00	-10.76	Vertical
12315.25	17.71	39.30	39.41	26.51	44.11	54.00	-9.89	Vertical
2351.25	6.14	29.86	39.43	29.78	26.35	54.00	-27.65	Horizontal
3032.75	7.00	31.95	39.32	29.72	29.35	54.00	-24.65	Horizontal
4865.75	9.68	34.32	40.35	30.31	33.96	54.00	-20.04	Horizontal
6287.50	14.44	36.19	41.61	30.49	39.51	54.00	-14.49	Horizontal
7744.50	13.85	37.56	39.52	29.89	41.78	54.00	-12.22	Horizontal
10623.25	14.91	38.23	36.65	26.42	42.91	54.00	-11.09	Horizontal

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
2327.75	6.02	29.76	39.75	43.08	39.11	74.00	-34.89	Vertical
2483.50	6.22	30.32	39.53	55.81	52.82	74.00	-21.18	Vertical
2492.25	5.99	30.35	39.34	42.66	39.66	74.00	-34.34	Vertical
4889.25	10.57	34.35	40.33	48.37	52.96	74.00	-21.04	Vertical
7368.50	12.76	37.33	40.21	46.90	56.78	74.00	-17.22	Vertical
12174.25	18.03	39.21	39.27	41.51	59.48	74.00	-14.52	Vertical
2327.75	6.02	29.76	39.75	42.31	38.34	74.00	-35.66	Horizontal
2483.50	6.22	30.32	39.53	54.06	51.07	74.00	-22.93	Horizontal
2492.25	5.99	30.35	39.34	43.18	40.18	74.00	-33.82	Horizontal
6205.25	14.46	36.09	41.69	44.38	53.24	74.00	-20.76	Horizontal
8719.75	13.10	37.77	37.68	41.55	54.74	74.00	-19.26	Horizontal
12139.00	17.71	39.19	39.23	38.96	56.63	74.00	-17.37	Horizontal

Test mode:	802.11g	Test channel:	Highest	Remark:	Average		
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
2327.75	6.02	29.76	39.75	30.68	26.71	54.00	-27.29	Vertical
2483.50	6.22	30.32	39.53	34.04	31.05	54.00	-22.95	Vertical
2492.25	5.99	30.35	39.34	30.96	27.96	54.00	-26.04	Vertical
6334.50	14.43	36.27	41.55	31.24	40.39	54.00	-13.61	Vertical
7991.25	12.87	37.70	40.00	30.39	40.96	54.00	-13.04	Vertical
10505.75	14.58	38.20	36.32	27.21	43.67	54.00	-10.33	Vertical
2327.75	6.02	29.76	39.75	30.31	26.34	54.00	-27.66	Horizontal
2483.50	6.22	30.32	39.53	32.89	29.90	54.00	-24.10	Horizontal
2492.25	5.99	30.35	39.34	29.87	26.87	54.00	-27.13	Horizontal
6792.75	13.47	36.85	40.18	30.68	40.82	54.00	-13.18	Horizontal
7850.25	13.97	37.62	39.74	30.18	42.03	54.00	-11.97	Horizontal
10693.75	14.90	38.24	36.82	26.85	43.17	54.00	-10.83	Horizontal