

# FCC REPORT

Applicant: QVS Marketing Inc.

Address of Applicant: 10721 S. Hidden Ridge Lane Sandy Utah 84092

Equipment Under Test (EUT)

Product Name: 802.11n USB Module

Model No.: TS-802NRUMS VQ

FCC ID: YVK-802NRUMSVQ

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

Date of sample receipt: Oct.13, 2011

Date of Test: Oct.17-18, 2011

Date of report issued: Oct.19, 2011

Test Result : PASS \*

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

Authorized Signature:



Stephen Guo  
Laboratory Manager

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## 2 Version

Version No.	Date	Description
00	Oct.19, 2011	Original

**Prepared By:**

*Collin He*

**Date:**

Oct.19, 2011

**Project Engineer**

**Check By:**

*Hans.Hu*

**Date:**

Oct.19, 2011

**Reviewer**

## 3 Contents

	Page
1 COVER PAGE .....	1
2 VERSION .....	2
3 CONTENTS .....	3
4 TEST SUMMARY .....	4
5 GENERAL INFORMATION .....	5
5.1 CLIENT INFORMATION .....	5
5.2 GENERAL DESCRIPTION OF E.U.T. ....	5
5.3 TEST ENVIRONMENT AND MODE.....	7
5.4 TEST FACILITY.....	7
5.5 TEST LOCATION .....	7
5.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	7
5.7 TEST INSTRUMENTS LIST .....	8
6 TEST RESULTS AND MEASUREMENT DATA .....	9
6.1 ANTENNA REQUIREMENT: .....	9
6.2 CONDUCTED EMISSIONS.....	10
6.3 CONDUCTED PEAK OUTPUT POWER .....	13
6.4 6dB OCCUPY BANDWIDTH.....	18
6.5 POWER SPECTRAL DENSITY.....	23
6.6 BAND EDGE.....	28
6.6.1 <i>Conducted Emission Method</i> .....	28
6.6.2 <i>Radiated Emission Method</i> .....	31
6.7 SPURIOUS EMISSION .....	36
6.7.1 <i>Conducted Emission Method</i> .....	36
6.7.2 <i>Radiated Emission Method</i> .....	43
7 TEST SETUP PHOTO .....	53
8 EUT CONSTRUCTIONAL DETAILS .....	55

## 4 Test Summary

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

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

## 5 General Information

### 5.1 Client Information

Applicant:	QVS Marketing Inc.
Address of Applicant:	10721 S. Hidden Ridge Lane Sandy Utah 84092
Manufacturer/ Factory:	QVS Manufacturing Services.
Address of Manufacturer/ Factory:	10721 S. Hidden Ridge Lane Sandy Utah 84092

### 5.2 General Description of E.U.T.

Product Name:	802.11n USB Module
Model No.:	TS-802NRUMS VQ
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	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
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integral
Antenna gain:	2dBi (declare by manufacturer)
Power supply:	DC 3.3V

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

Note:

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

802.11b/802.11g/802.11n(H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n(H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

## 5.3 Test environment and mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
<b>Test mode:</b>	
Transmitting mode	Keep the EUT in Transmitting mode

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:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.0Mbps

### Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13Mbps for 802.11n(H40)

## 5.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology 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 600491, July 20, 2010.

● **Industry Canada (IC)**

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

## 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

## 5.6 Other Information Requested by the Customer

None.

## 5.7 Test Instruments list

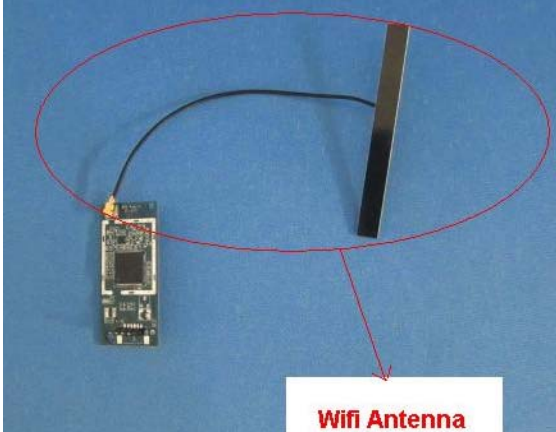
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A



## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

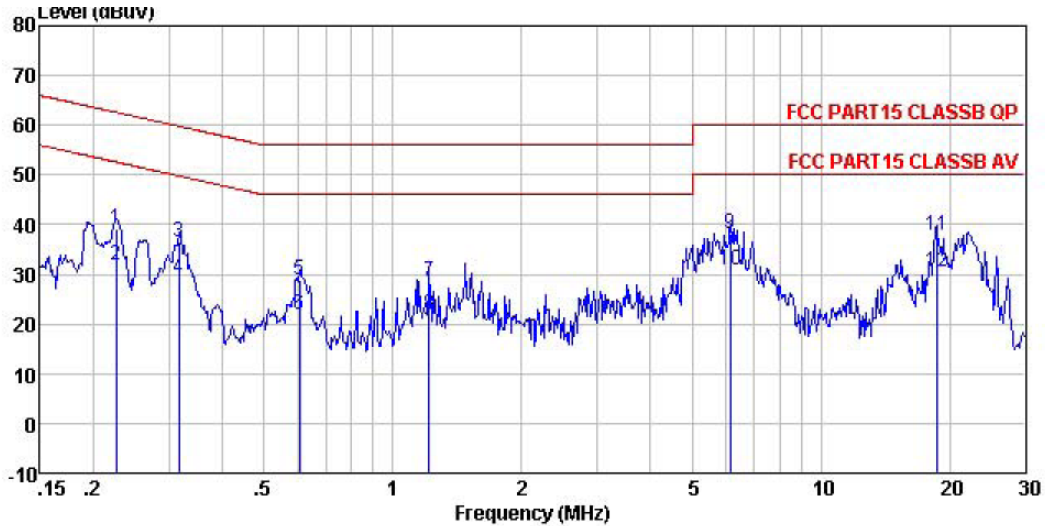
<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><i>15.203 requirement:</i>  <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> <p><i>15.247(c) (1)(i) requirement:</i>  <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></p>	
<b>E.U.T Antenna:</b>	
<p><i>The antenna port is an inverted, unconventional port; the best case gain of the antenna is 2.0dBi.</i></p>	
	

## 6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4: 2009														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test procedure	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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: 2009 on conducted measurement.</li> </ol>														
Test setup:	<p><i>Remark</i>  <i>E.U.T: Equipment Under Test</i>  <i>LISN: Line Impedance Stabilization Network</i>  <i>Test table height=0.8m</i></p>														
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Passed														

### Measurement Data

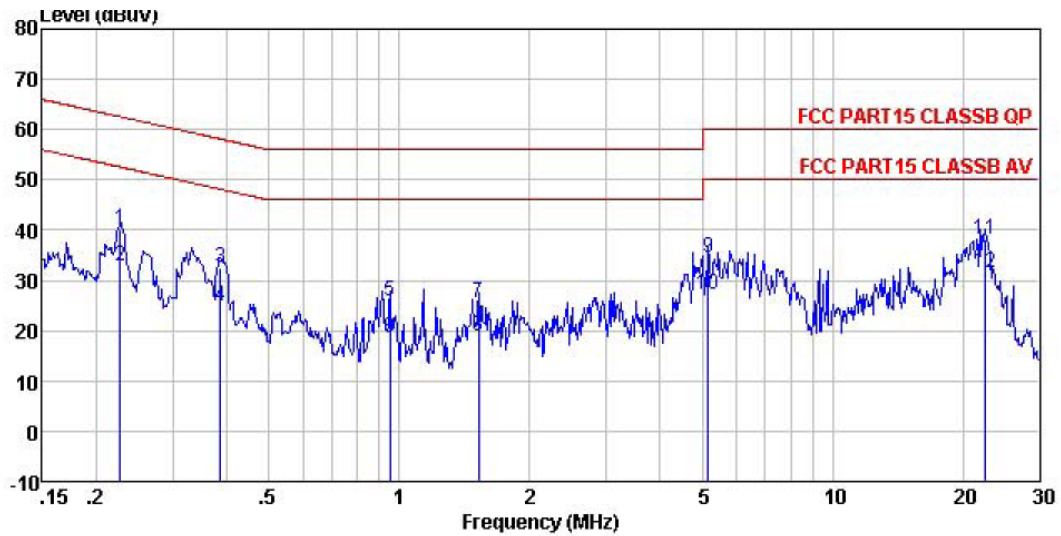
Live Line:



Condition : FCC PART15 CLASSB QP LISN(2011) LINE  
 Job No : 843RF  
 Test mode : Transmitting mode  
 Test engineer: Aarons

	Read Freq	LISN Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.226	38.51	0.64	0.10	39.25	62.61	-23.36	QP
2	0.226	31.24	0.64	0.10	31.98	52.61	-20.63	Average
3	0.317	35.63	0.60	0.10	36.33	59.80	-23.47	QP
4	0.317	28.35	0.60	0.10	29.05	49.80	-20.75	Average
5	0.604	28.20	0.53	0.10	28.83	56.00	-27.17	QP
6	0.604	21.37	0.53	0.10	22.00	46.00	-24.00	Average
7	1.216	28.01	0.46	0.10	28.57	56.00	-27.43	QP
8	1.216	21.35	0.46	0.10	21.91	46.00	-24.09	Average
9	6.153	37.68	0.28	0.12	38.08	60.00	-21.92	QP
10	6.153	30.58	0.28	0.12	30.98	50.00	-19.02	Average
11	18.622	37.30	0.15	0.21	37.66	60.00	-22.34	QP
12	18.622	30.27	0.15	0.21	30.63	50.00	-19.37	Average

Neutral Line:



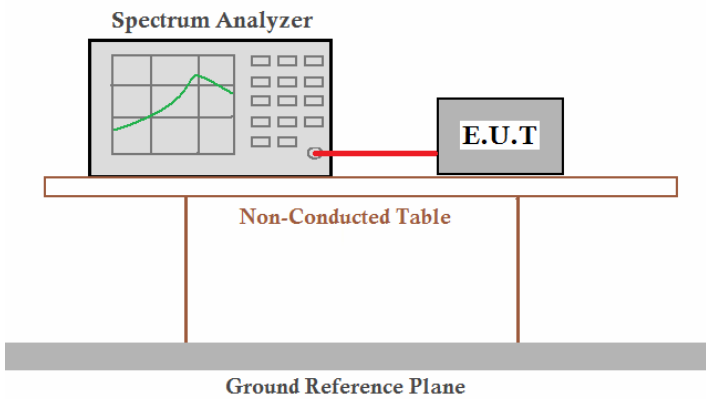
Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL  
 Job No : 843RF  
 Test mode : Transmitting mode  
 Test engineer: Aarons

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.227	39.51	0.64	0.10	40.25	62.57	-22.32	QP
2	0.227	32.18	0.64	0.10	32.92	52.57	-19.65	Average
3	0.387	31.79	0.58	0.10	32.47	58.12	-25.65	QP
4	0.387	24.25	0.58	0.10	24.93	48.12	-23.19	Average
5	0.953	25.37	0.48	0.10	25.95	56.00	-30.05	QP
6	0.953	17.96	0.48	0.10	18.54	46.00	-27.46	Average
7	1.527	25.09	0.43	0.10	25.62	56.00	-30.38	QP
8	1.527	18.24	0.43	0.10	18.77	46.00	-27.23	Average
9	5.166	34.02	0.30	0.10	34.42	60.00	-25.58	QP
10	5.166	26.89	0.30	0.10	27.29	50.00	-22.71	Average
11	22.535	37.89	0.13	0.21	38.23	60.00	-21.77	QP
12	22.535	31.28	0.13	0.21	31.62	50.00	-18.38	Average

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

## 6.3 Conducted Peak Output Power

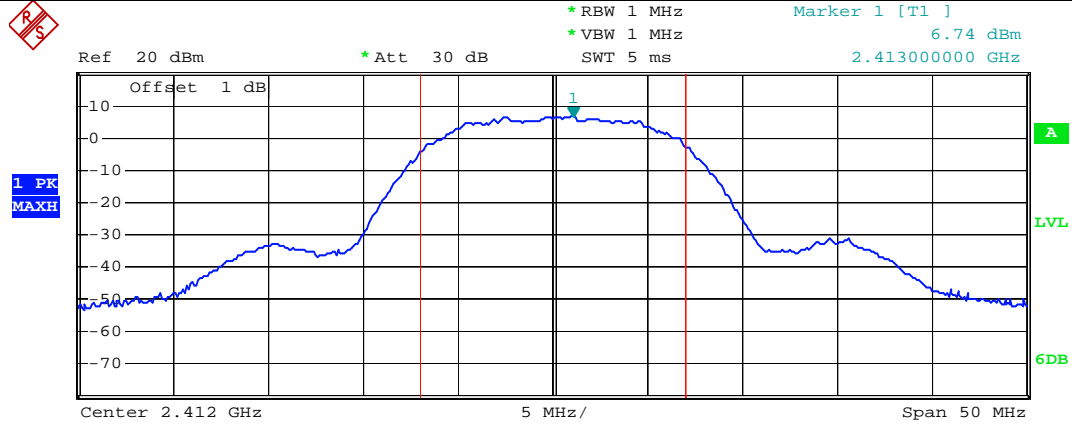
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	15.03	15.27	15.31	15.29	30.00	Pass
Middle	14.76	15.23	15.09	15.22		
Highest	15.25	14.99	15.15	15.08		

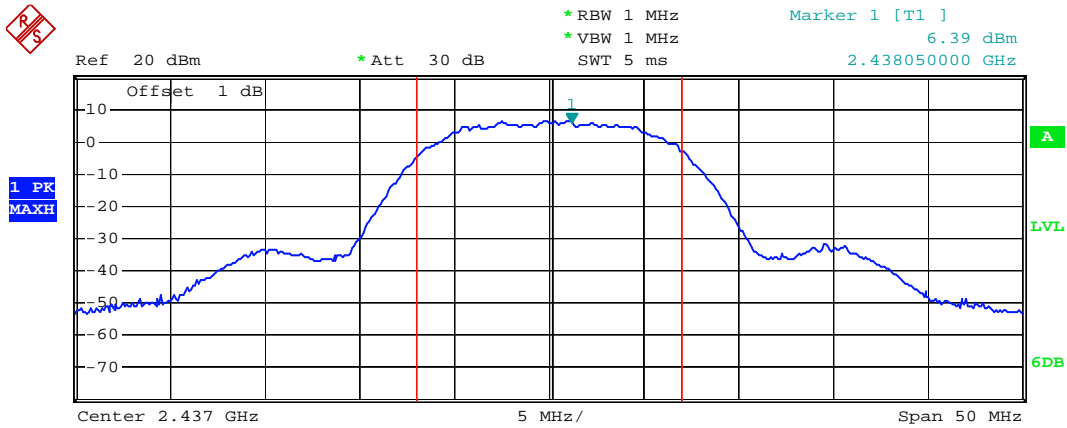
Test plot as follows:

Test mode:	802.11b
------------	---------



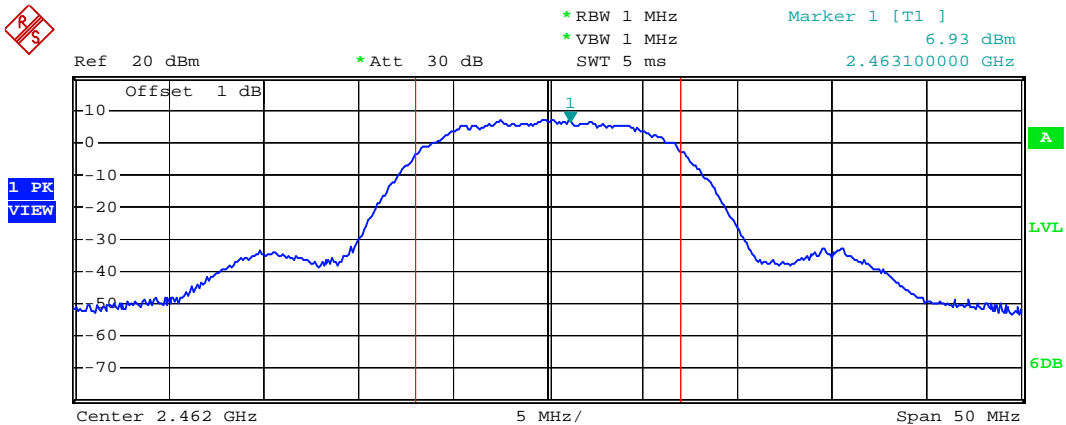
**Tx Channel**  
 Bandwidth 14 MHz Power 15.03 dBm

Lowest channel



**Tx Channel**  
 Bandwidth 14 MHz Power 14.76 dBm

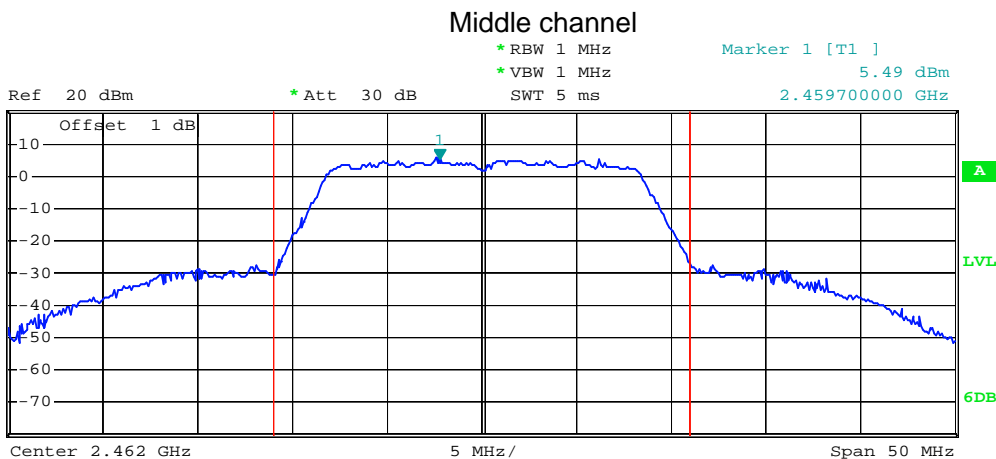
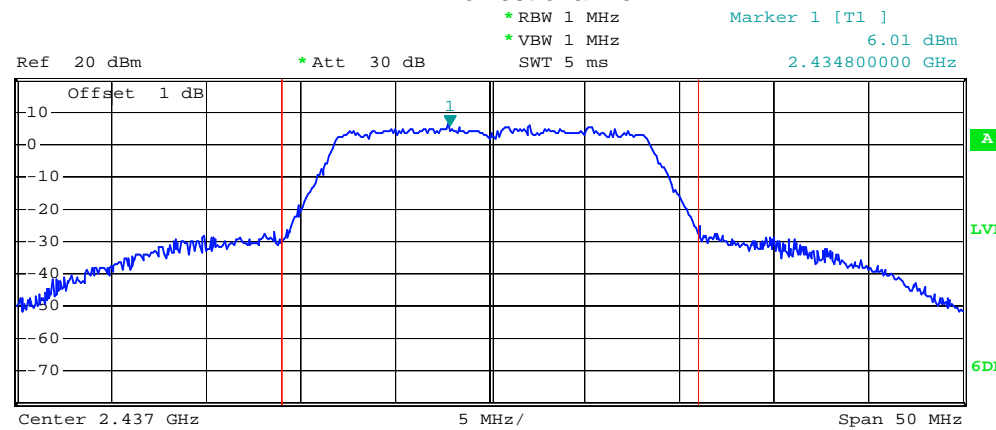
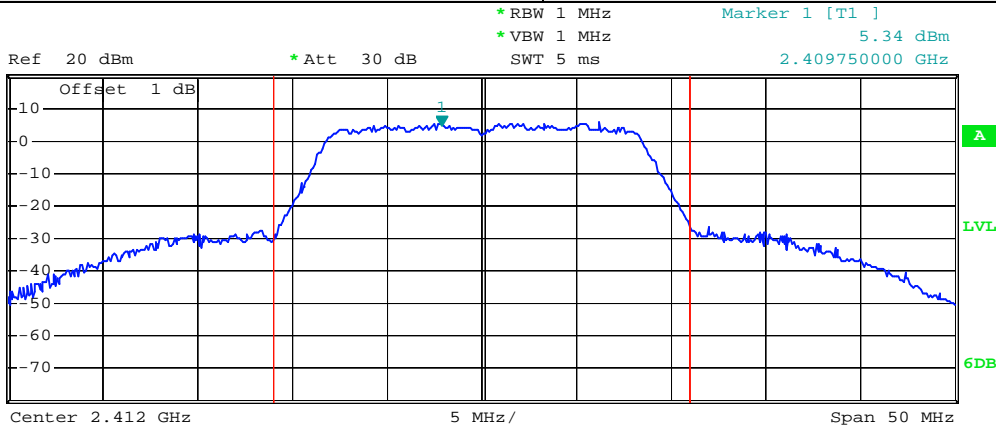
Middle channel



**Tx Channel**  
 Bandwidth 14 MHz Power 15.25 dBm

Highest channel

Test mode: 802.11g



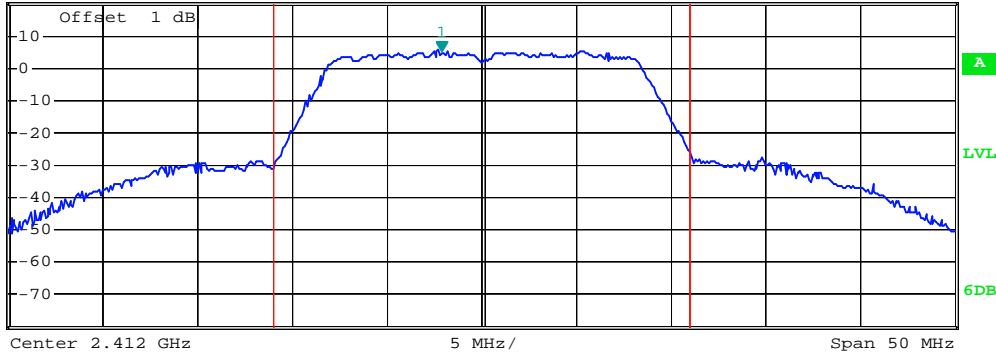
Highest channel

Test mode: 802.11n(H20)



Ref 20 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 5.67 dBm 2.409750000 GHz

1 PK MAXH



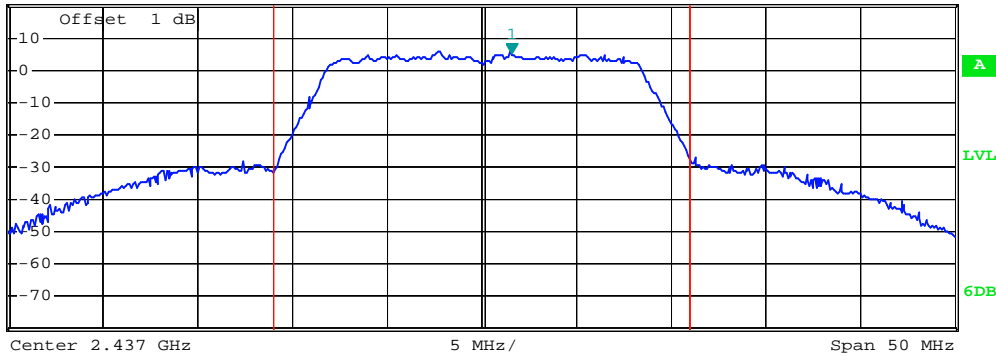
**Tx Channel**  
Bandwidth 22 MHz Power 15.31 dBm

Lowest channel



Ref 20 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 5.44 dBm 2.438500000 GHz

1 PK MAXH



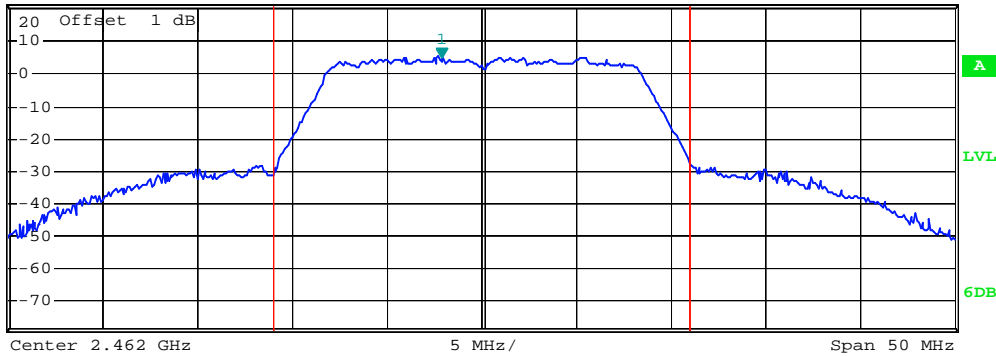
**Tx Channel**  
Bandwidth 22 MHz Power 15.09 dBm

Middle channel



Ref 21 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 5.62 dBm 2.459750000 GHz

1 PK MAXH



**Tx Channel**  
Bandwidth 22 MHz Power 15.15 dBm

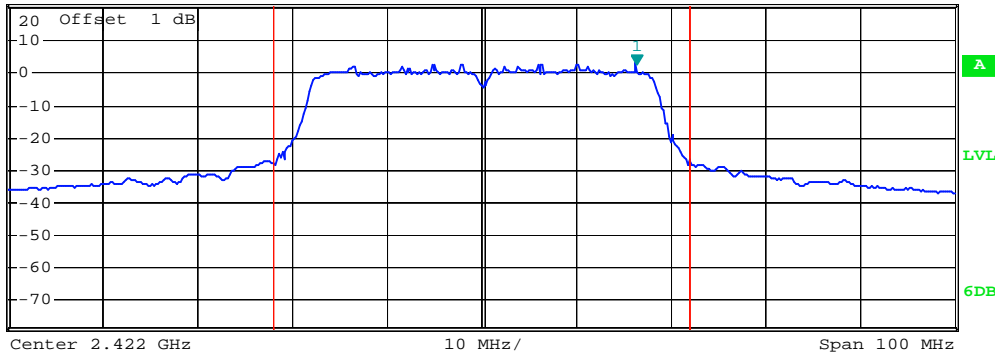
Highest channel



Test mode: 802.11n(H40)



Ref 21 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 3.19 dBm 2.438200000 GHz

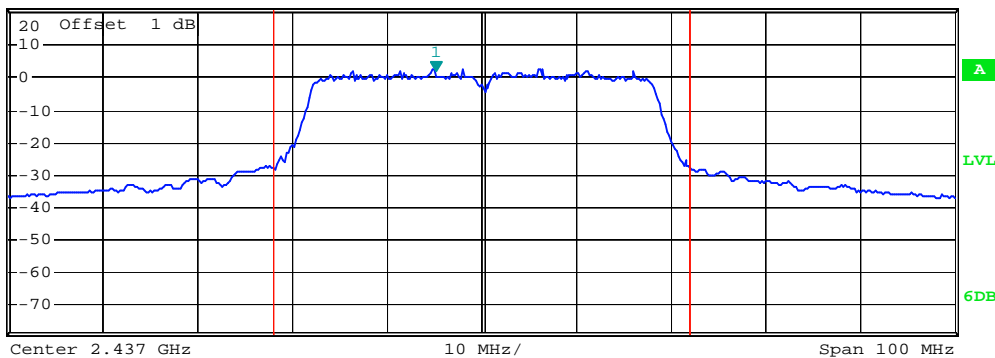


**Tx Channel**  
Bandwidth 44 MHz Power 15.29 dBm

Lowest channel



Ref 21 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 2.86 dBm 2.432000000 GHz

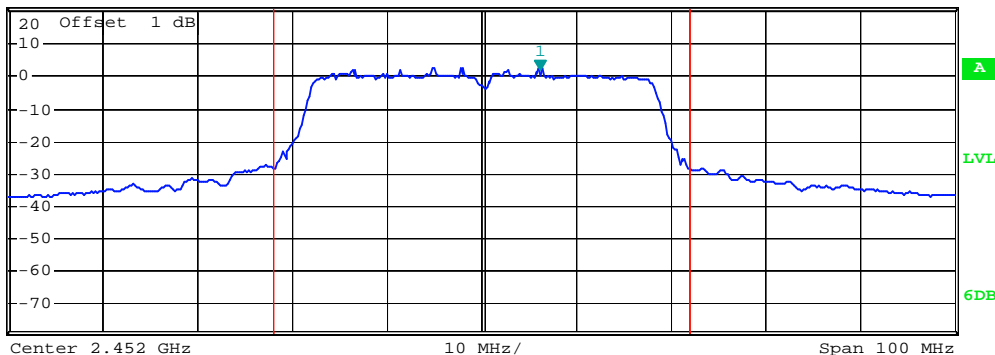


**Tx Channel**  
Bandwidth 44 MHz Power 15.22 dBm

Middle channel



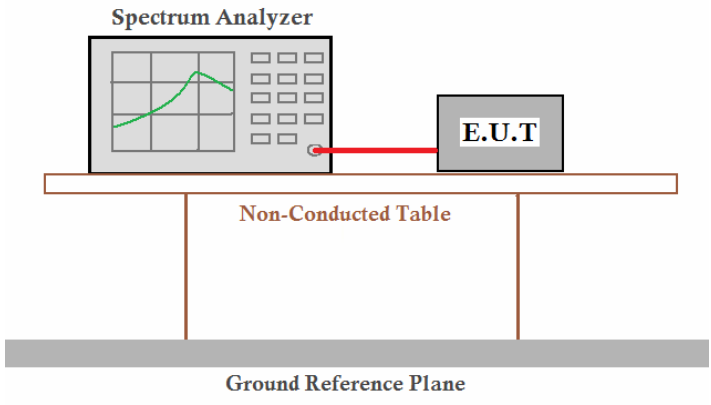
Ref 21 dBm \* Att 30 dB \* RBW 1 MHz \* VBW 1 MHz \* SWT 5 ms Marker 1 [T1] 2.76 dBm 2.458000000 GHz



**Tx Channel**  
Bandwidth 44 MHz Power 15.08 dBm

Highest channel

## 6.4 6dB Occupy Bandwidth

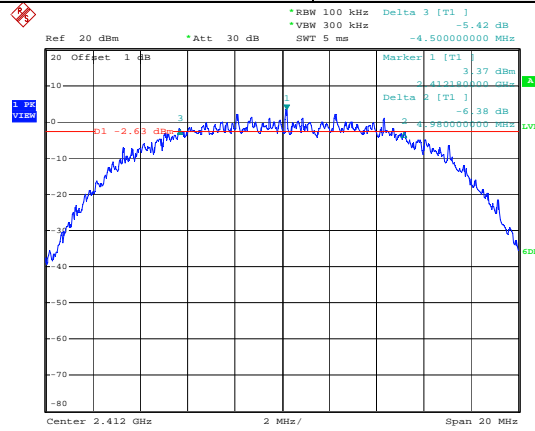
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

Test CH	6dB Occupy Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.48	16.32	16.36	35.70	>500	Pass
Middle	9.04	16.36	16.32	35.70		
Highest	10.12	16.44	16.44	35.90		

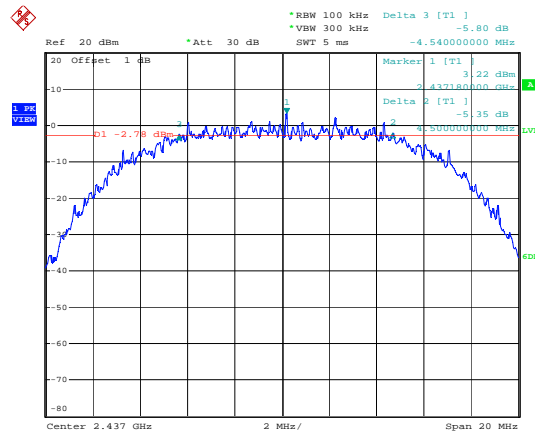
Test plot as follows:

Test mode:	802.11b
------------	---------



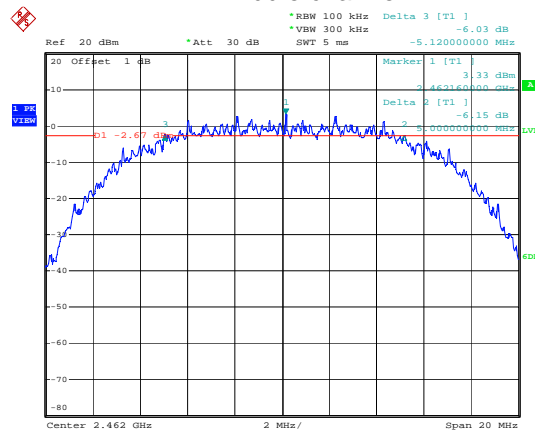
Date: 17.OCT.2010 08:14:04

### Lowest channel



Date: 17.OCT.2010 08:26:50

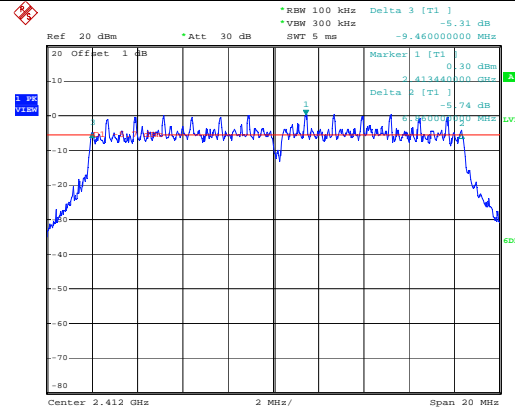
### Middle channel



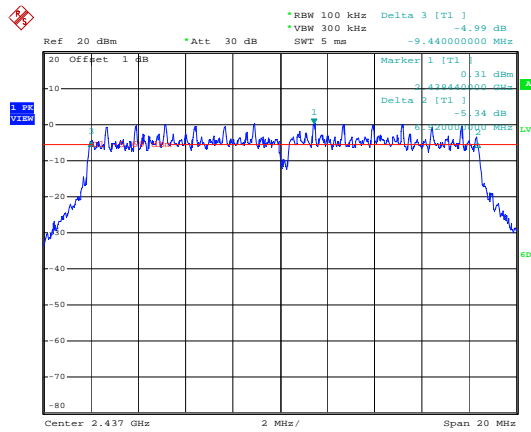
Date: 17.OCT.2010 08:36:20

### Highest channel

Test mode: 802.11g

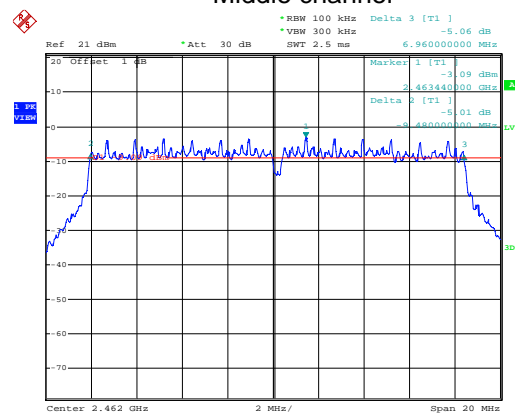


Lowest channel



Date: 17.OCT.2010 10:26:31

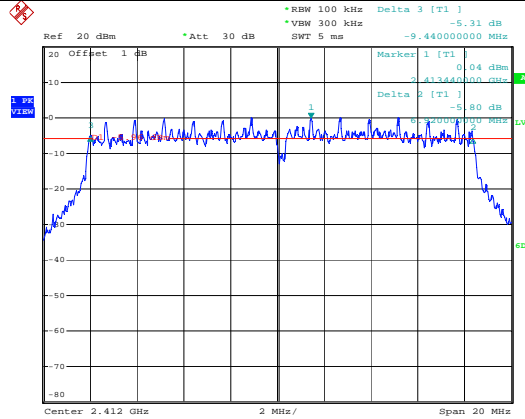
Middle channel



Date: 17.OCT.2011 11:45:19

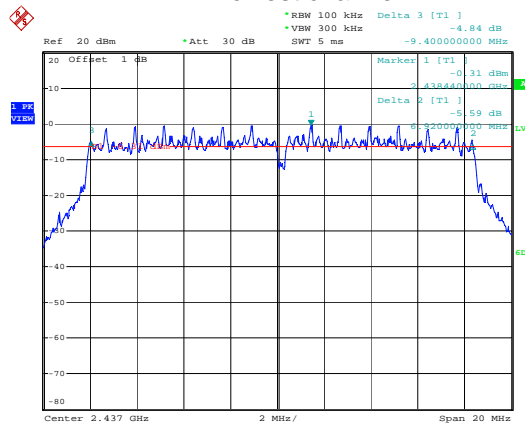
Highest channel

Test mode: 802.11n(H20)



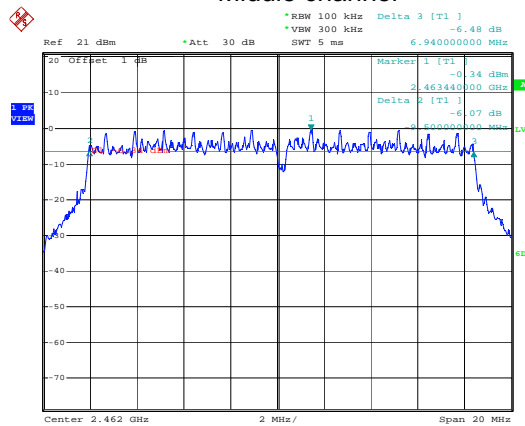
Date: 17.OCT.2010 10:37:38

### Lowest channel



Date: 17.OCT.2010 10:43:54

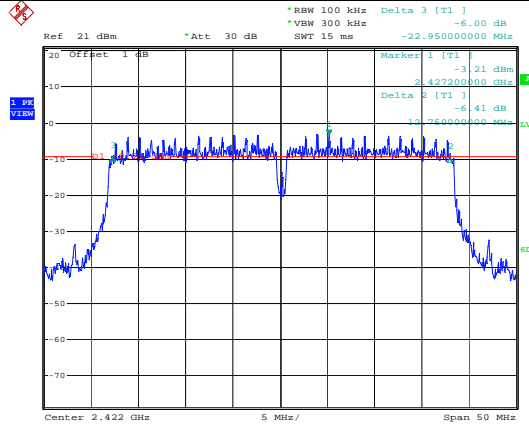
### Middle channel



Date: 17.OCT.2010 12:08:43

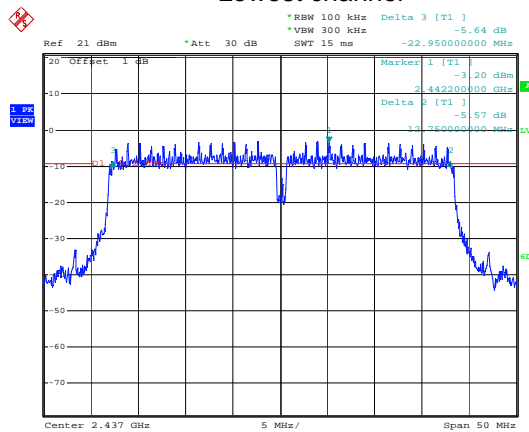
### Highest channel

Test mode: 802.11n(H40)



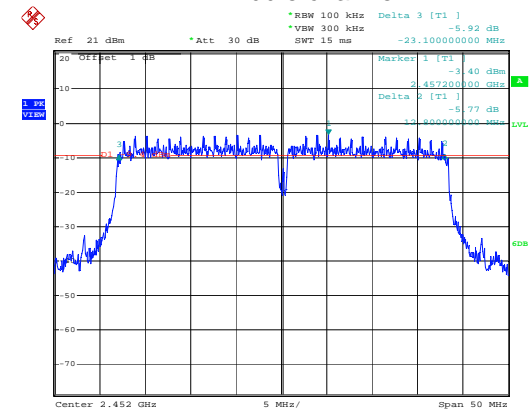
Date: 17.OCT.2010 12:15:57

### Lowest channel



Date: 17.OCT.2010 12:24:55

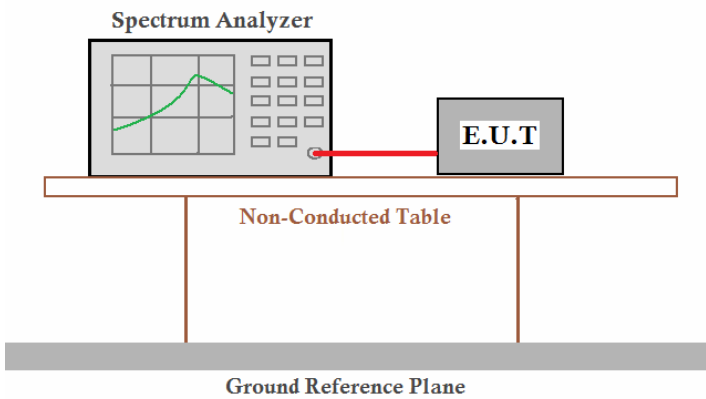
### Middle channel



Date: 17.OCT.2010 12:39:13

### Highest channel

## 6.5 Power Spectral Density

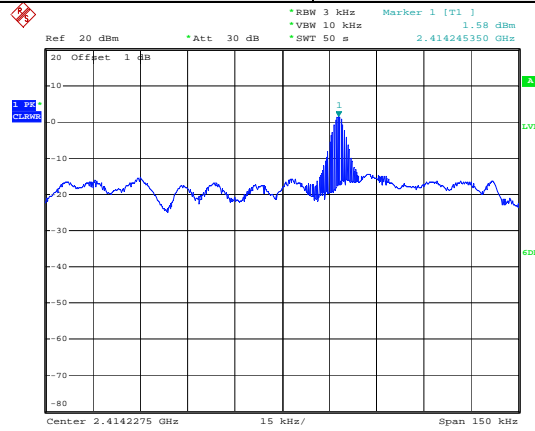
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	1.58	-16.45	-16.76	-22.77	8.00	Pass
Middle	1.94	-17.28	-18.34	-23.10		
Highest	0.48	-16.87	-19.21	-23.28		

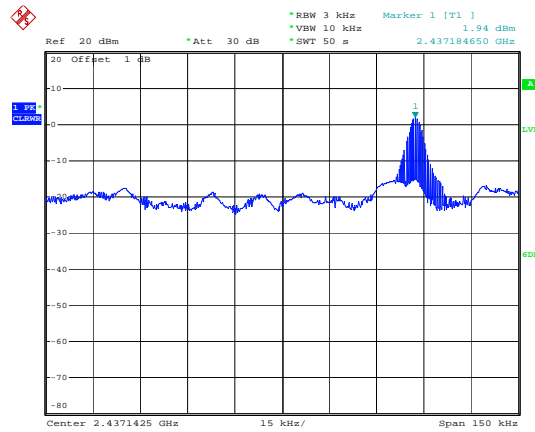
Test plot as follows:

Test mode:	802.11b
------------	---------



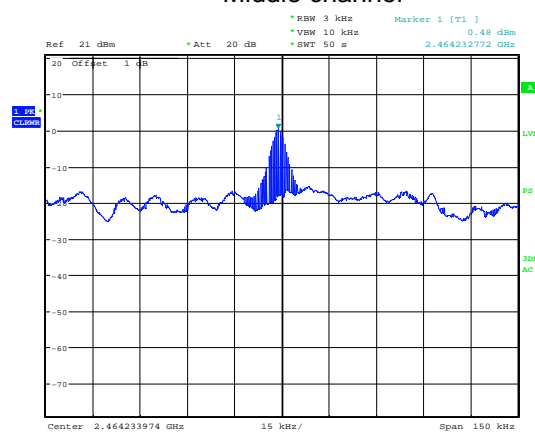
Date: 17.OCT.2010 08:24:01

### Lowest channel



Date: 17.OCT.2010 08:32:58

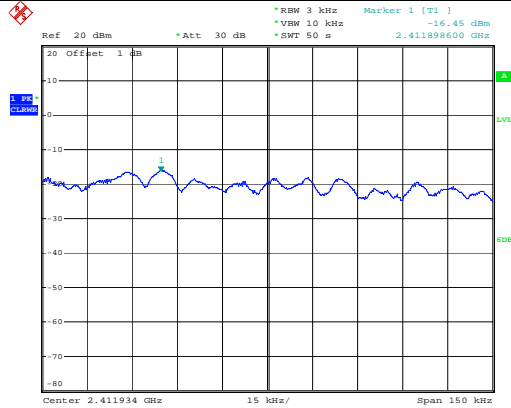
### Middle channel



### Highest channel

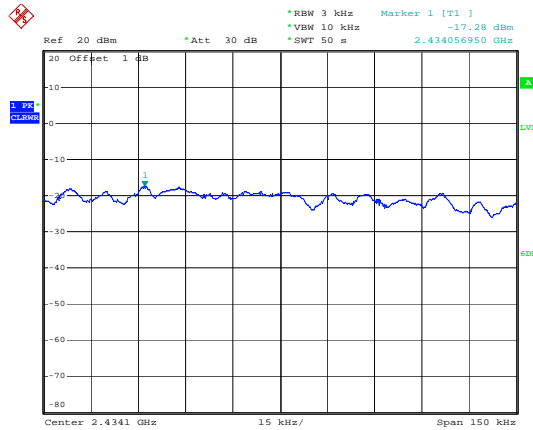


Test mode: 802.11g



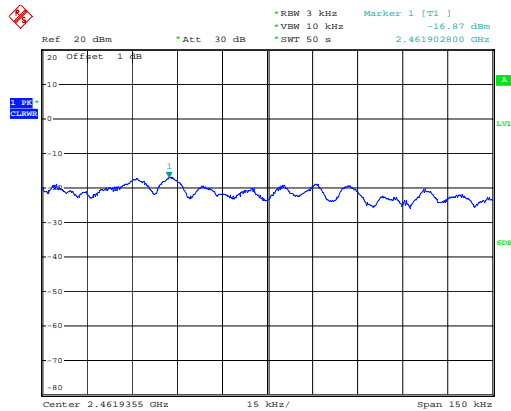
Date: 17.OCT.2010 10:23:26

### Lowest channel



Date: 17.OCT.2010 10:28:16

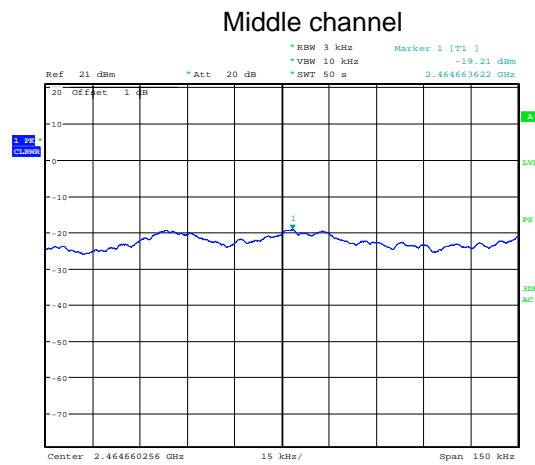
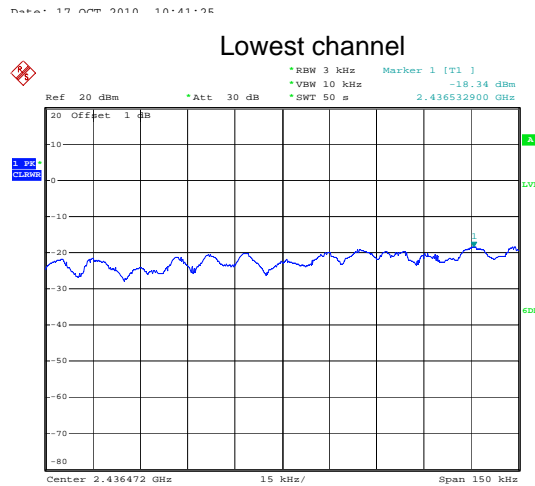
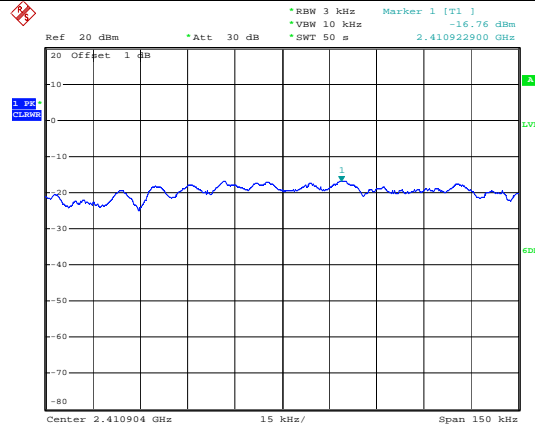
### Middle channel



Date: 17.OCT.2010 10:35:39

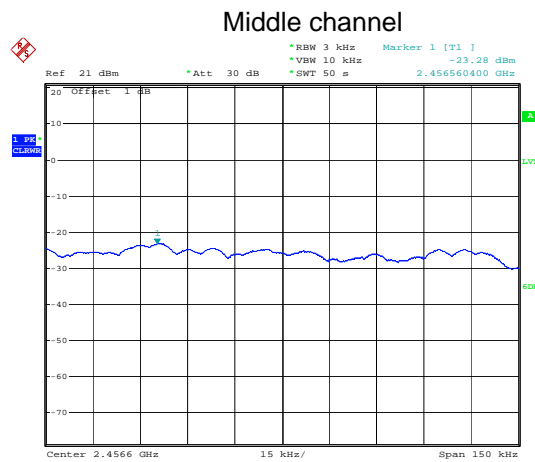
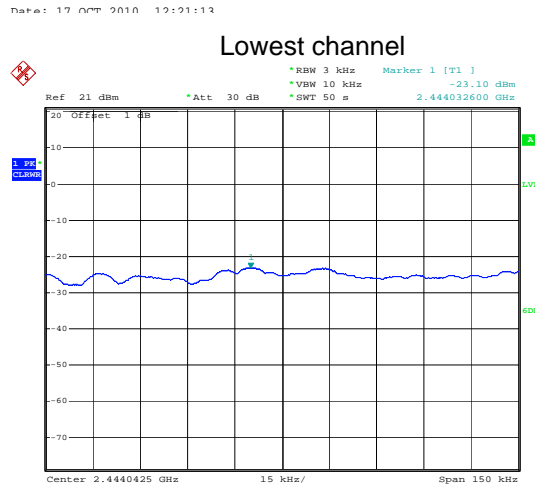
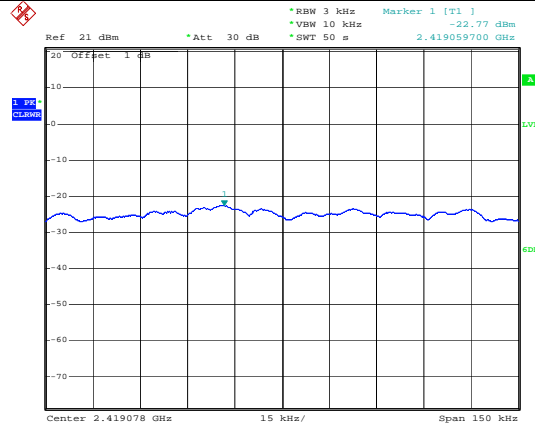
### Highest channel

Test mode: 802.11n(H20)



Highest channel

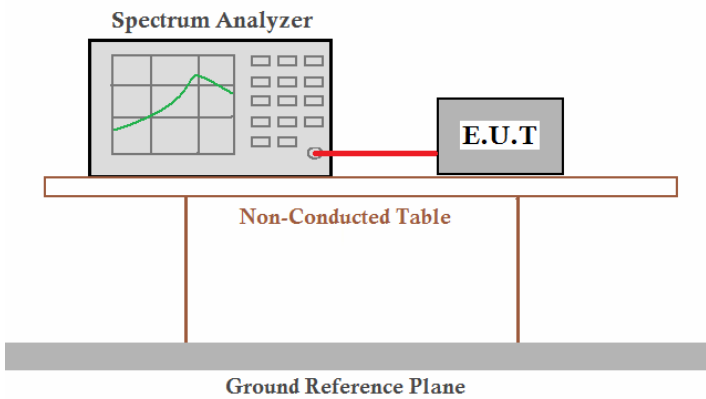
Test mode: 802.11n(H40)



Highest channel

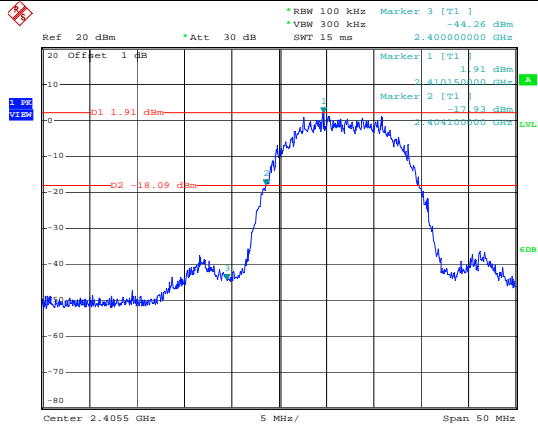
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

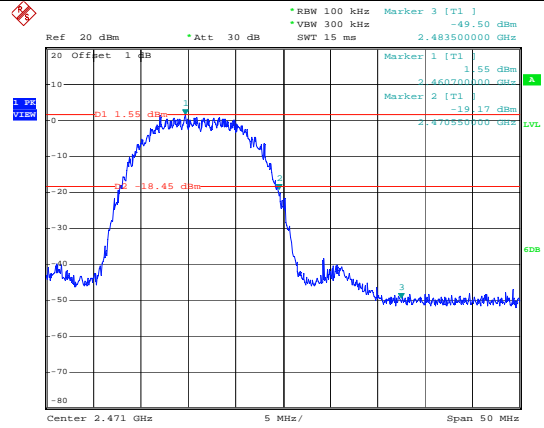
Test plot as follows:

Test mode:802.11b



Date: 17.OCT.2010 08:18:04

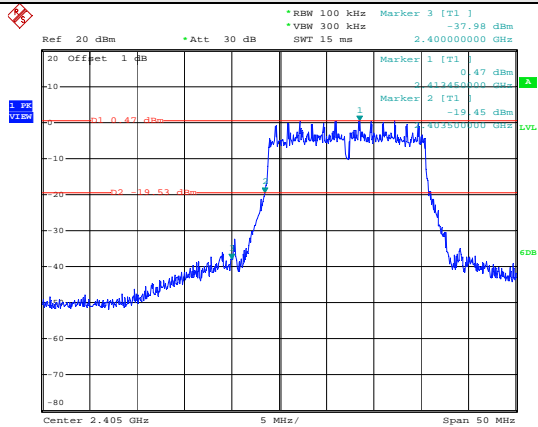
Lowest channel



Date: 17.OCT.2010 08:37:13

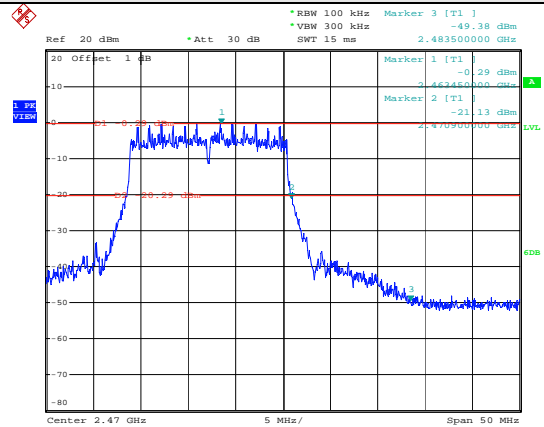
Highest channel

Test mode:802.11g



Date: 17.OCT.2010 10:04:54

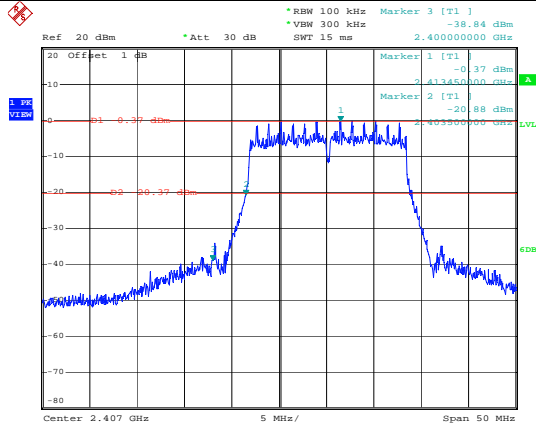
Lowest channel



Date: 17.OCT.2010 10:30:49

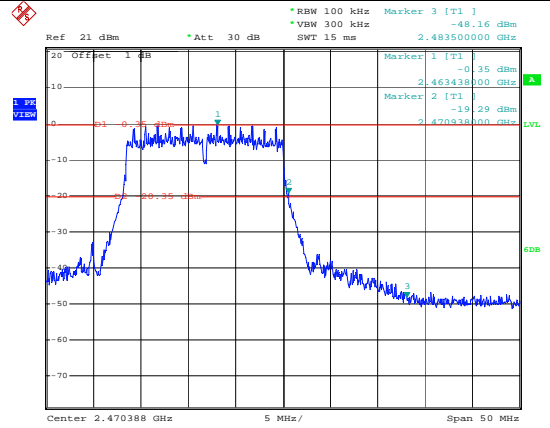
Highest channel

Test mode:802.11n(H20)



Date: 17.OCT.2010 10:38:34

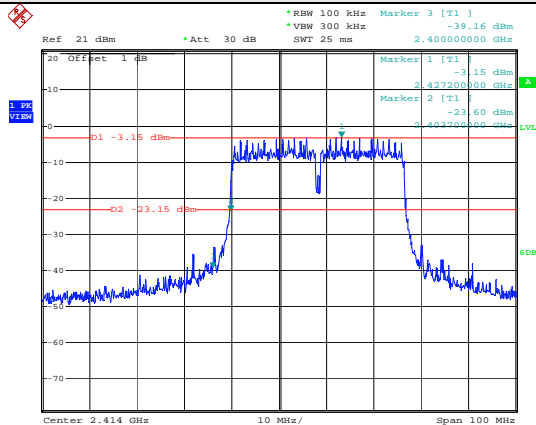
Lowest channel



Date: 17.OCT.2010 12:12:32

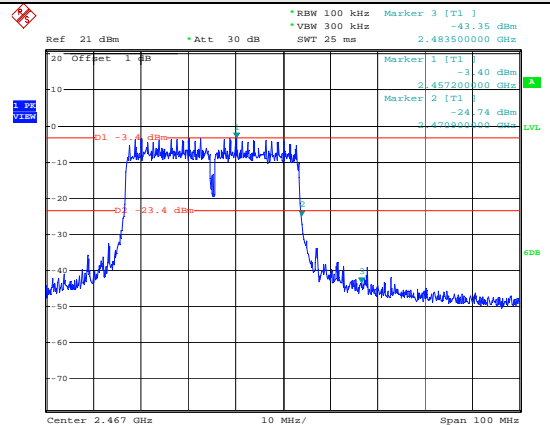
Highest channel

Test mode:802.11n(H40)



Date: 17.OCT.2010 12:16:52

Lowest channel



Date: 17.OCT.2010 12:40:19

Highest channel

## 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205														
Test Method:	ANSI C63.4: 2009														
Test Frequency Range:	2.3GHz to 2.5GHz														
Test site:	Measurement Distance: 3m														
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 rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Average	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark											
Above 1GHz	Peak	1MHz	3MHz	Peak Value											
	Average	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 rowspan="2">Above 1GHz</td> <td>54.00</td> <td>Average Value</td> </tr> <tr> <td>74.00</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.00	Average Value	74.00	Peak Value						
Frequency	Limit (dBuV/m @3m)	Remark													
Above 1GHz	54.00	Average Value													
	74.00	Peak Value													
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>														
Test setup:															
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Passed														

Test channel: 802.11b		Lowest			Level:		Peak	
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
2390.00	48.97	27.59	3.33	30.10	49.79	74.00	-24.21	Horizontal
2400.00	53.16	27.58	3.37	30.10	54.01	74.00	-19.99	Horizontal
2390.00	48.14	27.59	3.33	30.10	48.96	74.00	-25.04	Vertical
2400.00	52.27	27.58	3.37	30.10	53.12	74.00	-20.88	Vertical

Test channel: 802.11b		Lowest			Level:		Average	
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
2390.00	32.61	27.59	3.33	30.10	33.43	54.00	-20.57	Horizontal
2400.00	36.15	27.58	3.37	30.10	37.00	54.00	-17.00	Horizontal
2390.00	31.78	27.59	3.33	30.10	32.60	54.00	-21.40	Vertical
2400.00	35.26	27.58	3.37	30.10	36.11	54.00	-17.89	Vertical

Test channel: 802.11b		Highest			Level:		Peak	
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
2483.50	53.54	27.53	3.49	29.93	54.63	74.00	-19.37	Horizontal
2500.00	49.56	27.55	3.52	30.70	49.93	74.00	-24.07	Horizontal
2483.50	52.55	27.53	3.49	29.93	53.64	74.00	-20.36	Vertical
2500.00	48.68	27.55	3.52	30.70	49.05	74.00	-24.95	Vertical

Test channel: 802.11b		Highest			Level:		Average	
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
2483.50	36.42	27.53	3.49	29.93	37.51	54.00	-16.49	Horizontal
2500.00	31.93	27.55	3.52	30.70	32.30	54.00	-21.70	Horizontal
2483.50	35.54	27.53	3.49	29.93	36.63	54.00	-17.37	Vertical
2500.00	30.94	27.55	3.52	30.70	31.31	54.00	-22.69	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test channel: 802.11g		Lowest			Level:		Peak	
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
2390.00	47.61	27.59	3.33	30.10	48.43	74.00	-25.57	Horizontal
2400.00	51.76	27.58	3.37	30.10	52.61	74.00	-21.39	Horizontal
2390.00	46.59	27.59	3.33	30.10	47.41	74.00	-26.59	Vertical
2400.00	50.65	27.58	3.37	30.10	51.50	74.00	-22.50	Vertical

Test channel: 802.11g		Lowest			Level:		Average	
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
2390.00	33.31	27.59	3.33	30.10	34.13	54.00	-19.87	Horizontal
2400.00	37.38	27.58	3.37	30.10	38.23	54.00	-15.77	Horizontal
2390.00	31.85	27.59	3.33	30.10	32.67	54.00	-21.33	Vertical
2400.00	35.74	27.58	3.37	30.10	36.59	54.00	-17.41	Vertical

Test channel: 802.11g		Highest			Level:		Peak	
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
2483.50	52.43	27.53	3.49	29.93	53.52	74.00	-20.48	Horizontal
2500.00	48.50	27.55	3.52	30.70	48.87	74.00	-25.13	Horizontal
2483.50	51.34	27.53	3.49	29.93	52.43	74.00	-21.57	Vertical
2500.00	47.42	27.55	3.52	30.70	47.79	74.00	-26.21	Vertical

Test channel: 802.11g		Highest			Level:		Average	
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
2483.50	36.75	27.53	3.49	29.93	37.84	54.00	-16.16	Horizontal
2500.00	32.64	27.55	3.52	30.70	33.01	54.00	-20.99	Horizontal
2483.50	36.96	27.53	3.49	29.93	38.05	54.00	-15.95	Vertical
2500.00	32.67	27.55	3.52	30.70	33.04	54.00	-20.96	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: 802.11n(H20)		Lowest			Level:		Peak	
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
2390.00	47.77	27.59	3.33	30.10	48.59	74.00	-25.41	Horizontal
2400.00	52.30	27.58	3.37	30.10	53.15	74.00	-20.85	Horizontal
2390.00	44.27	27.59	3.33	30.10	45.09	74.00	-28.91	Vertical
2400.00	46.23	27.58	3.37	30.10	47.08	74.00	-26.92	Vertical

Test channel: 802.11n(H20)		Lowest			Level:		Average	
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
2390.00	33.10	27.59	3.33	30.10	33.92	54.00	-20.08	Horizontal
2400.00	33.25	27.58	3.37	30.10	34.10	54.00	-19.90	Horizontal
2390.00	34.06	27.59	3.33	30.10	34.88	54.00	-19.12	Vertical
2400.00	37.97	27.58	3.37	30.10	38.82	54.00	-15.18	Vertical

Test channel: 802.11n(H20)		Highest			Level:		Peak	
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
2483.50	52.49	27.53	3.49	29.93	53.58	74.00	-20.42	Horizontal
2500.00	48.53	27.55	3.52	30.70	48.90	74.00	-25.10	Horizontal
2483.50	46.83	27.53	3.49	29.93	47.92	74.00	-26.08	Vertical
2500.00	44.05	27.55	3.52	30.70	44.42	74.00	-29.58	Vertical

Test channel: 802.11n(H20)		Highest			Level:		Average	
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
2483.50	35.77	27.53	3.49	29.93	36.86	54.00	-17.14	Horizontal
2500.00	31.54	27.55	3.52	30.70	31.91	54.00	-22.09	Horizontal
2483.50	38.14	27.53	3.49	29.93	39.23	54.00	-14.77	Vertical
2500.00	36.63	27.55	3.52	30.70	37.00	54.00	-17.00	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: 802.11n(H40)		Lowest			Level:		Peak	
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
2390.00	48.76	27.59	3.33	30.10	49.58	74.00	-24.42	Horizontal
2400.00	51.73	27.58	3.37	30.10	52.58	74.00	-21.42	Horizontal
2390.00	47.74	27.59	3.33	30.10	48.56	74.00	-25.44	Vertical
2400.00	50.62	27.58	3.37	30.10	51.47	74.00	-22.53	Vertical

Test channel: 802.11n(H40)		Lowest			Level:		Average	
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
2390.00	31.37	27.59	3.33	30.10	32.19	54.00	-21.81	Horizontal
2400.00	36.64	27.58	3.37	30.10	37.49	54.00	-16.51	Horizontal
2390.00	31.01	27.59	3.33	30.10	31.83	54.00	-22.17	Vertical
2400.00	36.20	27.58	3.37	30.10	37.05	54.00	-16.95	Vertical

Test channel: 802.11n(H40)		Highest			Level:		Peak	
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
2483.50	50.83	27.53	3.49	29.93	51.92	74.00	-22.08	Horizontal
2500.00	47.40	27.55	3.52	30.70	47.77	74.00	-26.23	Horizontal
2483.50	49.75	27.53	3.49	29.93	50.84	74.00	-23.16	Vertical
2500.00	46.31	27.55	3.52	30.70	46.68	74.00	-27.32	Vertical

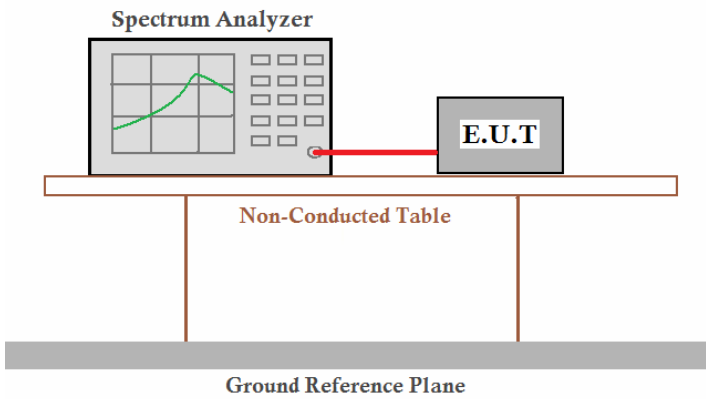
Test channel: 802.11n(H40)		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	39.08	27.53	3.49	29.93	40.17	54.00	-13.83	Horizontal
2500.00	37.60	27.55	3.52	30.70	37.97	54.00	-16.03	Horizontal
2483.50	40.29	27.53	3.49	29.93	41.38	54.00	-12.62	Vertical
2500.00	38.63	27.55	3.52	30.70	39.00	54.00	-15.00	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 6.7 Spurious Emission

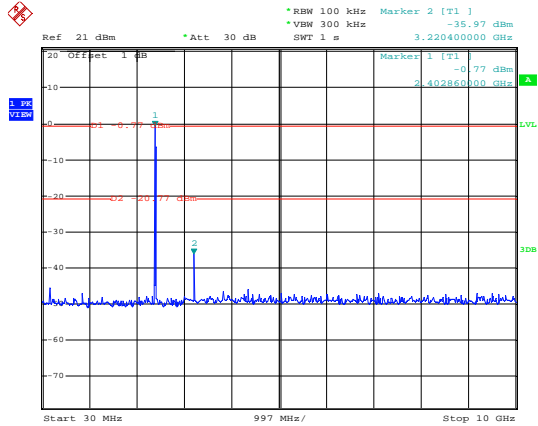
### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

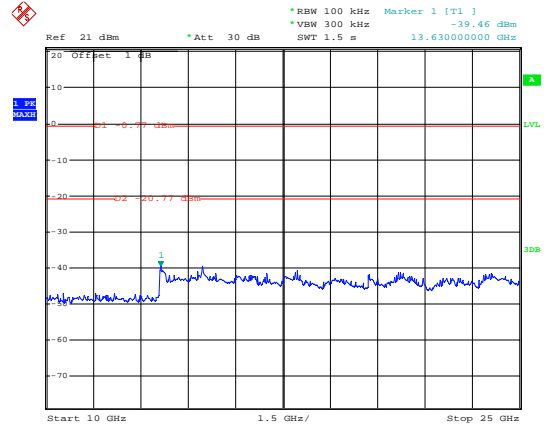
Test mode:802.11b

Lowest channel



Date: 17.OCT.2011 11:47:12

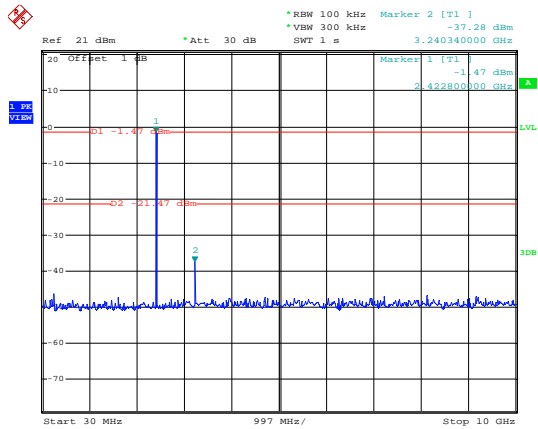
30MHz~10GHz



Date: 17.OCT.2011 11:47:51

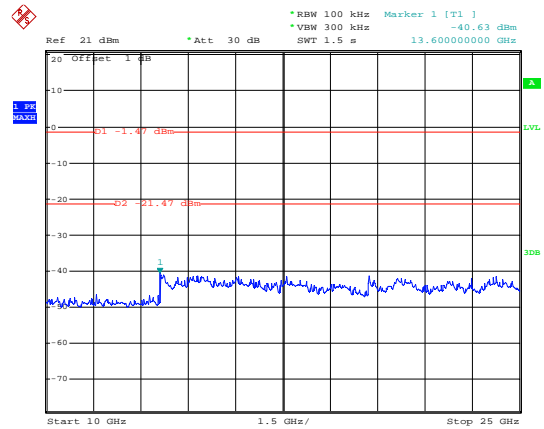
10GHz~25GHz

Middle channel



Date: 17.OCT.2011 11:49:34

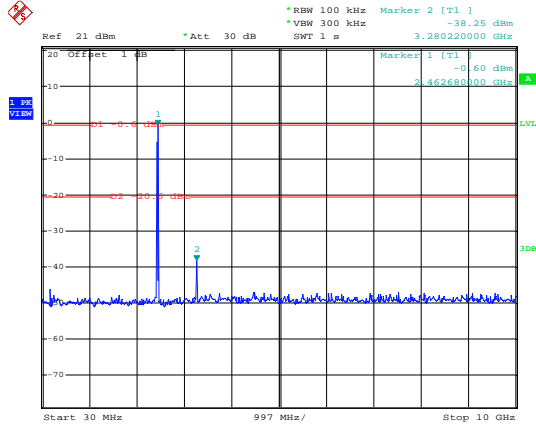
30MHz~10GHz



Date: 17.OCT.2011 11:49:51

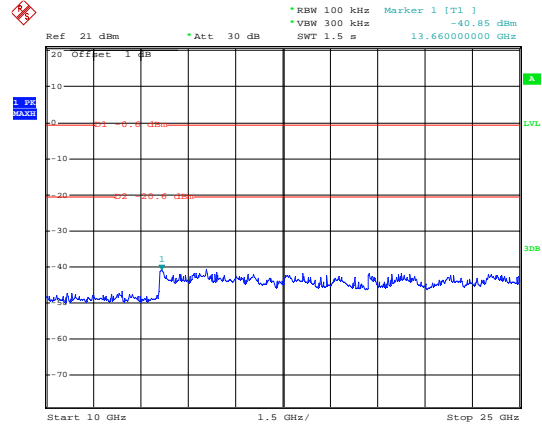
10GHz~25GHz

Highest channel



Date: 17.OCT.2011 11:55:08

30MHz~10GHz

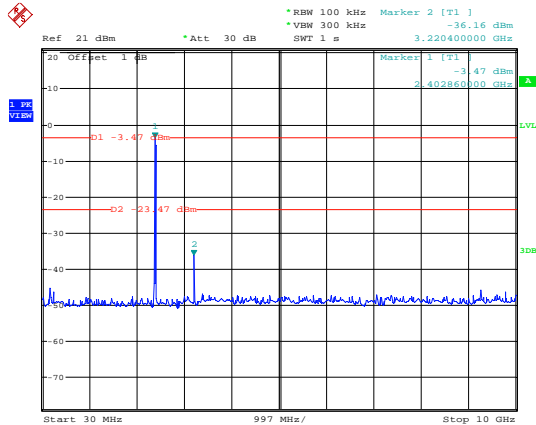


Date: 17.OCT.2011 11:55:29

10GHz~25GHz

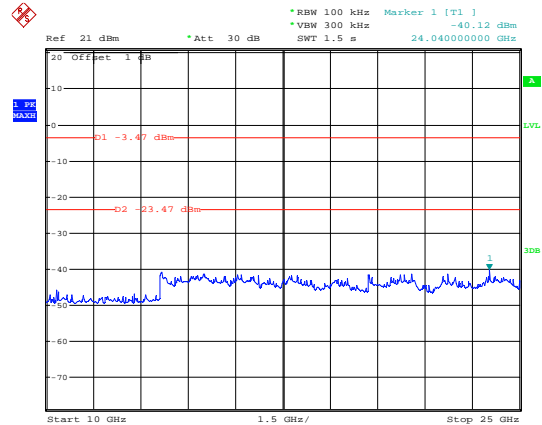
Test mode:802.11g

Lowest channel



Date: 17.OCT.2011 11:58:28

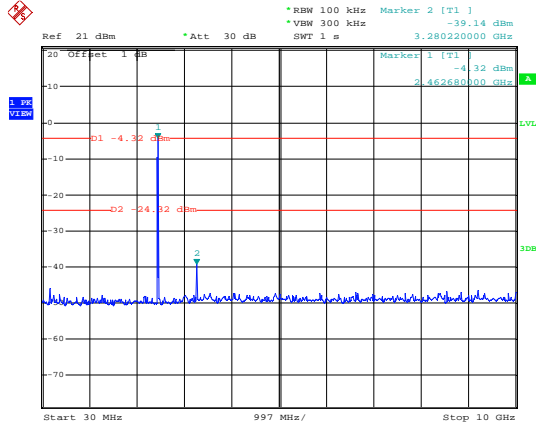
30MHz~10GHz



Date: 17.OCT.2011 11:58:47

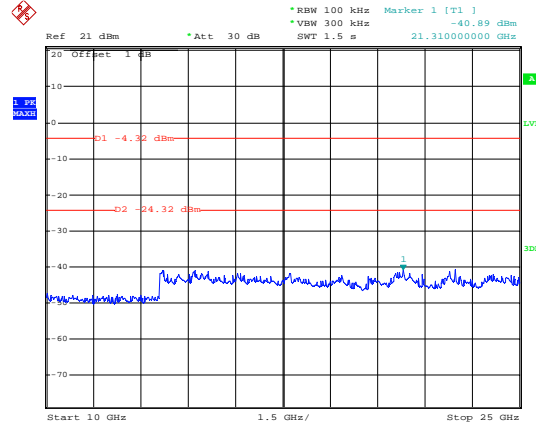
10GHz~25GHz

Middle channel



Date: 17.OCT.2011 12:01:40

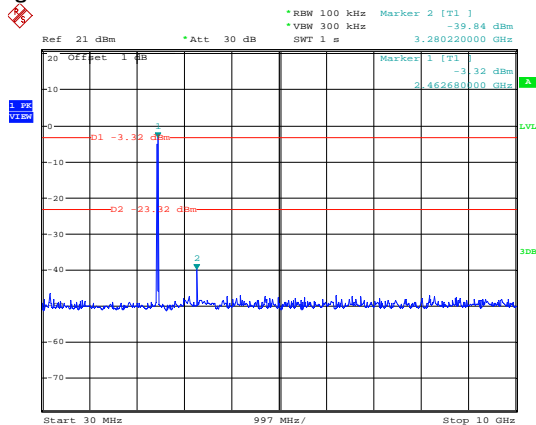
30MHz~10GHz



Date: 17.OCT.2011 12:02:00

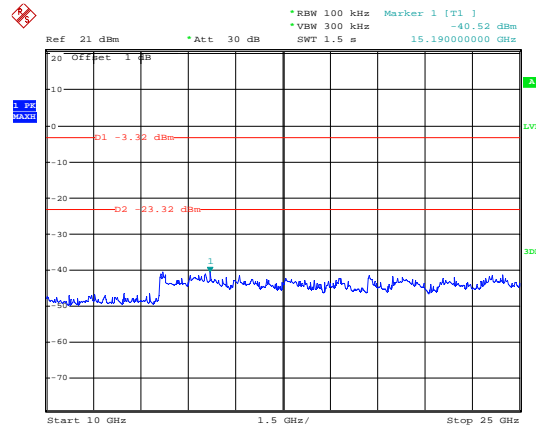
10GHz~25GHz

Highest channel



Date: 17.OCT.2011 12:22:52

30MHz~10GHz

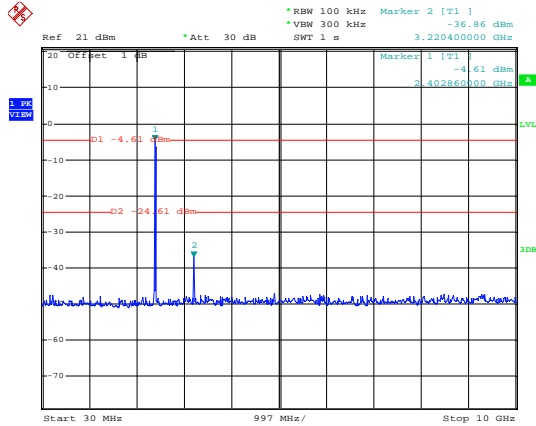


Date: 17.OCT.2011 12:23:15

10GHz~25GHz

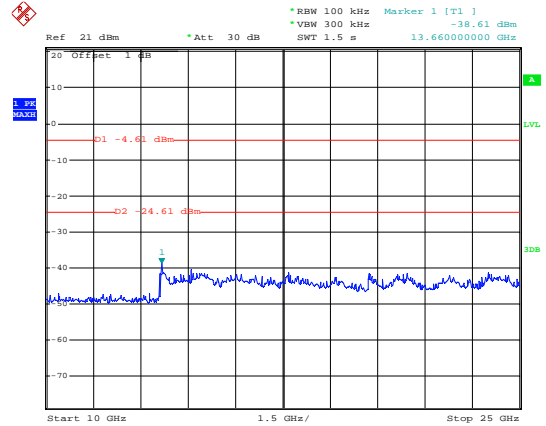
Test mode:802.11n(H20)

Lowest channel



Date: 17.OCT.2011 12:04:14

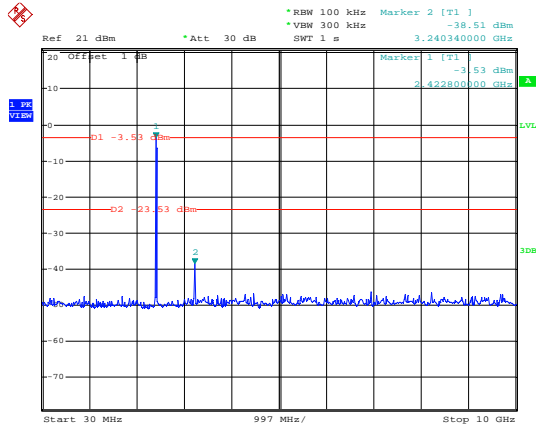
30MHz~10GHz



Date: 17.OCT.2011 12:04:34

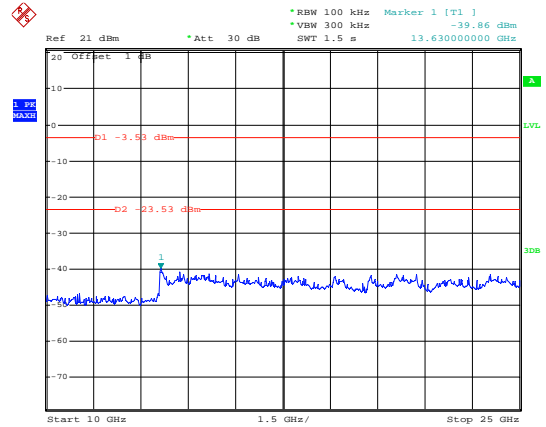
10GHz~25GHz

Middle channel



Date: 17.OCT.2011 12:05:49

30MHz~10GHz

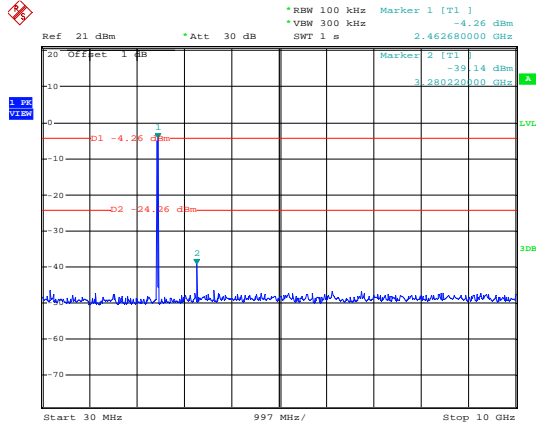


Date: 17.OCT.2011 12:06:13

10GHz~25GHz

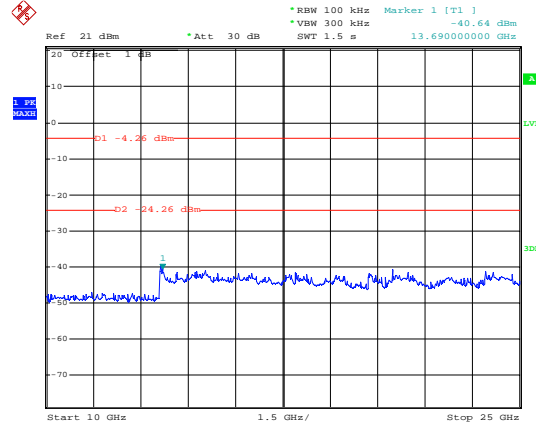


Highest channel



Date: 17.OCT.2011 12:07:40

30MHz~10GHz

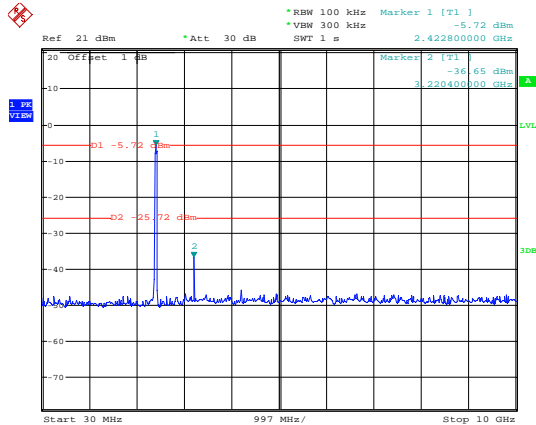


Date: 17.OCT.2011 12:08:03

10GHz~25GHz

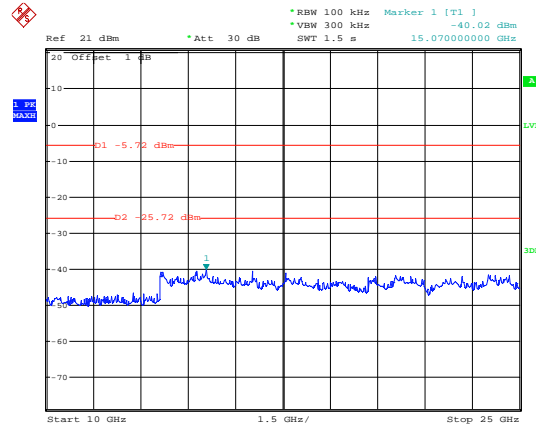
Test mode:802.11n(H40)

Lowest channel



Date: 17.OCT.2011 12:10:14

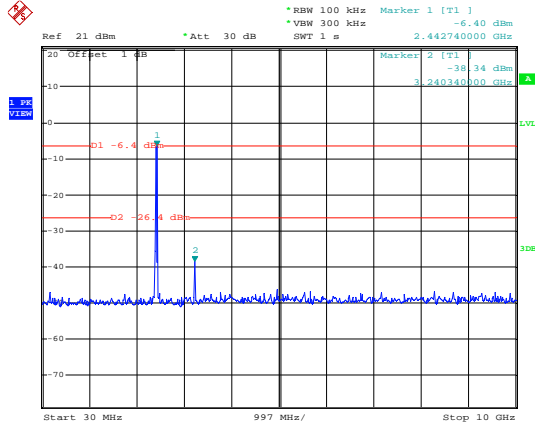
30MHz~10GHz



Date: 17.OCT.2011 12:10:35

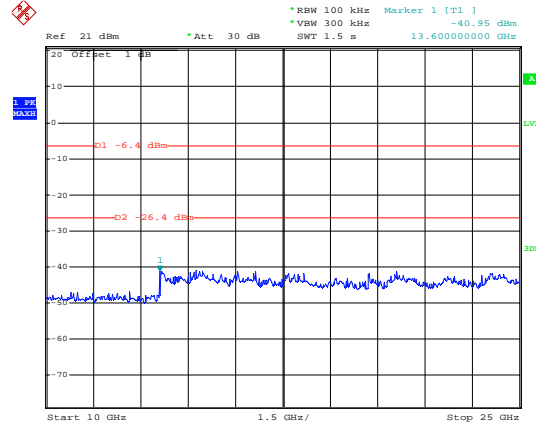
10GHz~25GHz

Middle channel



Date: 17.OCT.2011 12:12:06

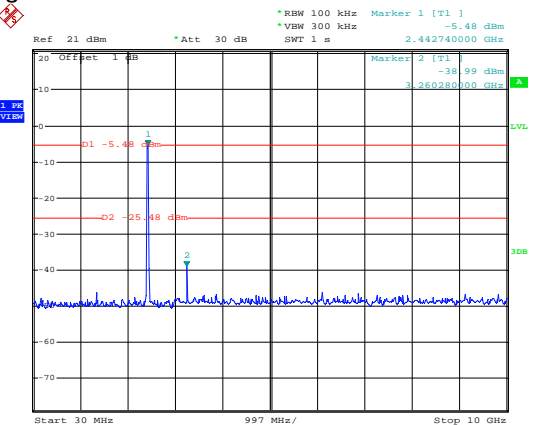
30MHz~10GHz



Date: 17.OCT.2011 12:12:26

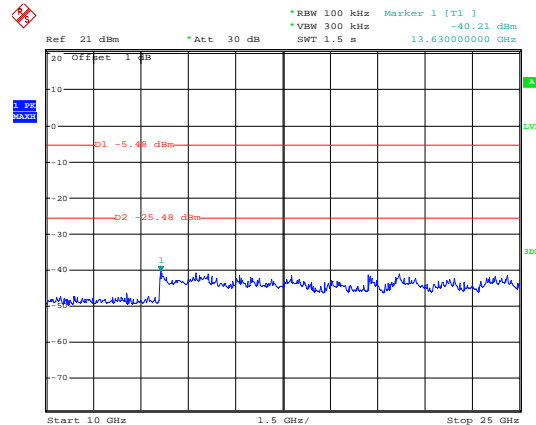
10GHz~25GHz

Highest channel



Date: 17.OCT.2011 12:14:09

30MHz~10GHz

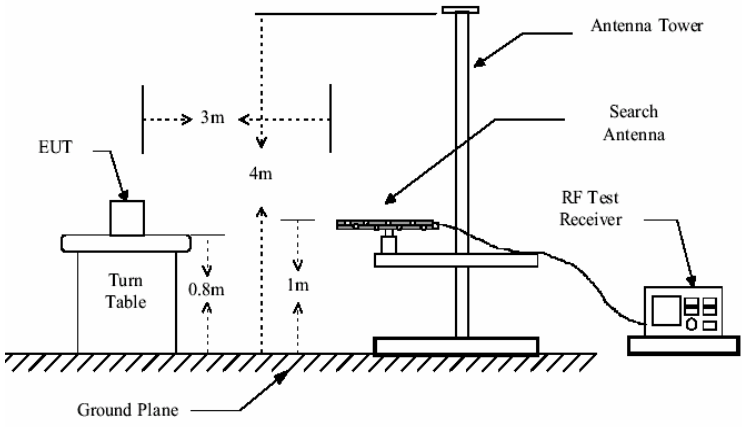
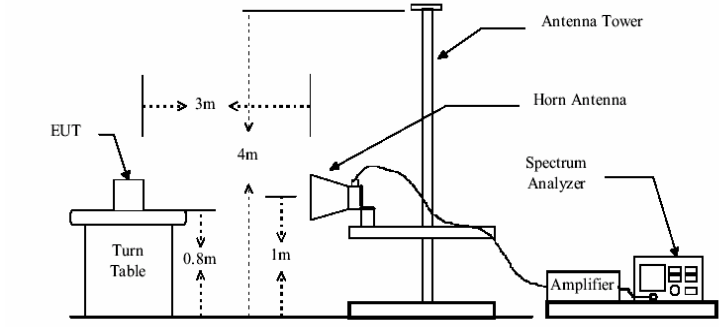


Date: 17.OCT.2011 12:14:29

10GHz~25GHz

## 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2009				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Average	1MHz	10Hz	Average Value
Limit:	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:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. 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.</li> </ol>				

<p>Test setup:</p>	<p><b>Below 1GHz</b></p>  <p><b>Above 1GHz</b></p> 
<p>Test Instruments:</p>	<p>Refer to section 5.7 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>

**Below 1GHz**

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
360.45	49.09	14.43	1.18	26.87	37.83	46.00	-8.17	Vertical
480.53	50.79	16.07	1.42	27.61	40.67	46.00	-5.33	Vertical
601.43	45.08	18.46	1.68	27.80	37.42	46.00	-8.58	Vertical
721.73	43.88	19.10	1.95	27.65	37.28	46.00	-8.72	Vertical
842.13	47.50	20.51	2.09	27.46	42.64	46.00	-3.36	Vertical
962.16	47.69	21.49	2.23	27.21	44.20	54.00	-9.80	Vertical
238.89	47.61	12.09	0.87	26.47	34.10	46.00	-11.90	Horizontal
350.49	52.59	14.43	1.18	26.87	41.33	46.00	-4.67	Horizontal
478.56	52.90	16.07	1.42	27.61	42.78	46.00	-3.22	Horizontal
720.24	43.05	19.10	1.95	27.65	36.45	46.00	-9.55	Horizontal
841.83	41.92	20.51	2.09	27.46	37.06	46.00	-8.94	Horizontal
961.57	44.51	21.49	2.23	27.21	41.02	54.00	-12.98	Horizontal

**Above 1GHz**

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak
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		
4824.00	51.64	31.54	5.87	34.55	54.50	74.00	-19.50	Vertical		
7236.00	41.27	36.50	7.10	36.11	48.76	74.00	-25.24	Vertical		
9648.00	40.40	38.25	9.03	35.97	51.71	74.00	-22.29	Vertical		
12060.00	*					74.00		Vertical		
14472.00	*					74.00		Vertical		
4824.00	52.60	31.54	5.87	34.55	55.46	74.00	-18.54	Horizontal		
7236.00	49.55	36.49	7.10	36.12	57.02	74.00	-16.98	Horizontal		
9648.00	49.49	38.12	9.01	35.88	60.74	74.00	-13.26	Horizontal		
12060.00	*					74.00		Horizontal		
14472.00	*					74.00		Horizontal		

Test mode:		802.11b		Test channel:		Lowest		Remark:		Average
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		
4824.00	34.66	31.54	5.87	34.55	37.52	54.00	-16.48	Vertical		
7236.00	34.32	36.50	7.10	36.11	41.81	54.00	-12.19	Vertical		
9648.00	33.52	38.25	9.03	35.97	44.83	54.00	-9.17	Vertical		
12060.00	*					54.00		Vertical		
14472.00	*					54.00		Vertical		
4824.00	35.84	31.54	5.87	34.55	38.70	54.00	-15.30	Horizontal		
7236.00	32.53	36.49	7.10	36.12	40.00	54.00	-14.00	Horizontal		
9648.00	33.47	38.12	9.01	35.88	44.72	54.00	-9.28	Horizontal		
12060.00	*					54.00		Horizontal		
14472.00	*					54.00		Horizontal		

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak
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		
4874.00	48.59	31.57	5.91	34.65	51.42	74.00	-22.58	Vertical		
7311.00	40.11	36.48	7.14	36.14	47.59	74.00	-26.41	Vertical		
9748.00	39.78	38.64	9.08	36.35	51.15	74.00	-22.85	Vertical		
12185.00	*					74.00		Vertical		
14622.00	*					74.00		Vertical		
4874.00	51.28	31.57	5.91	34.65	54.11	74.00	-19.89	Horizontal		
7311.00	38.70	36.47	7.14	36.14	46.17	74.00	-27.83	Horizontal		
9748.00	39.21	38.45	9.06	36.24	50.48	74.00	-23.52	Horizontal		
12185.00	*					74.00		Horizontal		
14622.00	*					74.00		Horizontal		

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11b		Test channel:		Middle		Remark:		Average
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		
4874.00	32.02	31.57	5.91	34.65	34.85	54.00	-19.15	Vertical		
7311.00	32.89	36.48	7.14	36.14	40.37	54.00	-13.63	Vertical		
9748.00	34.04	38.64	9.08	36.35	45.41	54.00	-8.59	Vertical		
12185.00	*					54.00		Vertical		
14622.00	*					54.00		Vertical		
4874.00	34.60	31.57	5.91	34.65	37.43	54.00	-16.57	Horizontal		
7311.00	31.75	36.47	7.14	36.14	39.22	54.00	-14.78	Horizontal		
9748.00	32.52	38.45	9.06	36.24	43.79	54.00	-10.21	Horizontal		
12185.00	*					54.00		Horizontal		
14622.00	*					54.00		Horizontal		

Test mode:		802.11b		Test channel:		Highest		Remark:		Peak
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		
4924.00	49.37	31.64	5.95	34.79	52.17	74.00	-21.83	Vertical		
7386.00	39.41	36.49	7.16	36.16	46.90	74.00	-27.10	Vertical		
9848.00	40.28	38.69	9.11	36.53	51.55	74.00	-22.45	Vertical		
12310.00	*					74.00		Vertical		
14772.00	*					74.00		Vertical		
4924.00	50.71	31.74	5.97	34.86	53.56	74.00	-20.44	Horizontal		
7386.00	39.12	36.50	7.10	36.11	46.61	74.00	-27.39	Horizontal		
9848.00	39.60	38.67	9.08	36.47	50.88	74.00	-23.12	Horizontal		
12310.00	*					74.00		Horizontal		
14772.00	*					74.00		Horizontal		

Test mode:		802.11b		Test channel:		Highest		Remark:		Average
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		
4924.00	33.79	31.64	5.95	34.79	36.59	54.00	-17.41	Vertical		
7386.00	32.90	36.49	7.16	36.16	40.39	54.00	-13.61	Vertical		
9848.00	35.03	38.69	9.11	36.53	46.30	54.00	-7.70	Vertical		
12310.00	*					54.00		Vertical		
14772.00	*					54.00		Vertical		
4924.00	33.71	31.74	5.97	34.86	36.56	54.00	-17.44	Horizontal		
7386.00	33.51	36.50	7.10	36.11	41.00	54.00	-13.00	Horizontal		
9848.00	32.57	38.67	9.08	36.47	43.85	54.00	-10.15	Horizontal		
12310.00	*					54.00		Horizontal		
14772.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak
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		
4824.00	48.82	31.55	5.89	34.58	51.68	74.00	-22.32	Vertical		
7236.00	38.99	36.50	7.10	36.11	46.48	74.00	-27.52	Vertical		
9648.00	39.34	38.12	9.01	35.90	50.57	74.00	-23.43	Vertical		
12060.00	*					74.00		Vertical		
14472.00	*					74.00		Vertical		
4824.00	43.24	31.55	5.89	34.58	46.10	74.00	-27.90	Horizontal		
7236.00	39.13	36.47	7.10	36.11	46.59	74.00	-27.41	Horizontal		
9648.00	38.48	38.25	9.03	35.97	49.79	74.00	-24.21	Horizontal		
12060.00	*					74.00		Horizontal		
14472.00	*					74.00		Horizontal		

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average
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		
4824.00	31.62	31.55	5.89	34.58	34.48	54.00	-19.52	Vertical		
7236.00	31.82	36.50	7.10	36.11	39.31	54.00	-14.69	Vertical		
9648.00	32.83	38.12	9.01	35.90	44.06	54.00	-9.94	Vertical		
12060.00	*					54.00		Vertical		
14472.00	*					54.00		Vertical		
4824.00	32.94	31.55	5.89	34.58	35.80	54.00	-18.20	Horizontal		
7236.00	32.91	36.47	7.10	36.11	40.37	54.00	-13.63	Horizontal		
9648.00	31.84	38.25	9.03	35.97	43.15	54.00	-10.85	Horizontal		
12060.00	*					54.00		Horizontal		
14472.00	*					54.00		Horizontal		

Test mode:		802.11g		Test channel:		Middle		Remark:		Peak
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		
4874.00	48.01	31.56	5.89	34.58	50.88	74.00	-23.12	Vertical		
7311.00	38.52	36.47	7.14	36.14	45.99	74.00	-28.01	Vertical		
9748.00	38.61	38.45	9.06	36.24	49.88	74.00	-24.12	Vertical		
12185.00	*					74.00		Vertical		
14622.00	*					74.00		Vertical		
4874.00	47.84	31.56	5.89	34.58	50.71	74.00	-23.29	Horizontal		
7311.00	38.66	36.48	7.14	36.14	46.14	74.00	-27.86	Horizontal		
9748.00	39.42	38.45	9.06	36.18	50.75	74.00	-23.25	Horizontal		
12185.00	*					74.00		Horizontal		
14622.00	*					74.00		Horizontal		

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11g		Test channel:		Middle		Remark:		Average
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		
4874.00	31.67	31.56	5.89	34.58	34.54	54.00	-19.46	Vertical		
7311.00	32.23	36.47	7.14	36.14	39.70	54.00	-14.30	Vertical		
9748.00	32.94	38.45	9.06	36.24	44.21	54.00	-9.79	Vertical		
12185.00	*					54.00		Vertical		
14622.00	*					54.00		Vertical		
4874.00	31.01	31.56	5.89	34.58	33.88	54.00	-20.12	Horizontal		
7311.00	32.34	36.48	7.14	36.14	39.82	54.00	-14.18	Horizontal		
9748.00	32.95	38.45	9.06	36.18	44.28	54.00	-9.72	Horizontal		
12185.00	*					54.00		Horizontal		
14622.00	*					54.00		Horizontal		

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak
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		
4924.00	47.84	31.61	5.93	34.76	50.62	74.00	-23.38	Vertical		
7386.00	38.39	36.52	7.16	36.16	45.91	74.00	-28.09	Vertical		
9848.00	38.55	38.67	9.08	36.47	49.83	74.00	-24.17	Vertical		
12310.00	*					74.00		Vertical		
14772.00	*					74.00		Vertical		
4924.00	48.05	31.64	5.95	34.79	50.85	74.00	-23.15	Horizontal		
7386.00	38.69	36.54	7.16	36.16	46.23	74.00	-27.77	Horizontal		
9848.00	38.29	38.69	9.11	36.53	49.56	74.00	-24.44	Horizontal		
12310.00	*					74.00		Horizontal		
14772.00	*					74.00		Horizontal		

Test mode:		802.11g		Test channel:		Highest		Remark:		Average
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		
4924.00	30.96	31.61	5.93	34.76	33.74	54.00	-20.26	Vertical		
7386.00	31.79	36.52	7.16	36.16	39.31	54.00	-14.69	Vertical		
9848.00	31.23	38.67	9.08	36.47	42.51	54.00	-11.49	Vertical		
12310.00	*					54.00		Vertical		
14772.00	*					54.00		Vertical		
4924.00	32.02	31.64	5.95	34.79	34.82	54.00	-19.18	Horizontal		
7386.00	32.35	36.54	7.16	36.16	39.89	54.00	-14.11	Horizontal		
9848.00	31.01	38.69	9.11	36.53	42.28	54.00	-11.72	Horizontal		
12310.00	*					54.00		Horizontal		
14772.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Peak
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		
4824.00	49.03	31.85	6.00	34.92	51.96	74.00	-22.04	Vertical		
7236.00	39.87	36.50	7.10	36.11	47.36	74.00	-26.64	Vertical		
9648.00	39.07	38.12	9.01	35.88	50.32	74.00	-23.68	Vertical		
12060.00	*					74.00		Vertical		
14472.00	*					74.00		Vertical		
4824.00	48.46	31.55	5.89	34.58	51.32	74.00	-22.68	Horizontal		
7236.00	39.68	36.50	7.10	36.11	47.17	74.00	-26.83	Horizontal		
9648.00	39.73	38.12	9.01	35.90	50.96	74.00	-23.04	Horizontal		
12060.00	*					74.00		Horizontal		
14472.00	*					74.00		Horizontal		

Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Average
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		
4824.00	32.91	31.85	6.00	34.92	35.84	54.00	-18.16	Vertical		
7236.00	33.28	36.50	7.10	36.11	40.77	54.00	-13.23	Vertical		
9648.00	32.06	38.12	9.01	35.88	43.31	54.00	-10.69	Vertical		
12060.00	*					54.00		Vertical		
14472.00	*					54.00		Vertical		
4824.00	31.32	31.55	5.89	34.58	34.18	54.00	-19.82	Horizontal		
7236.00	33.35	36.50	7.10	36.11	40.84	54.00	-13.16	Horizontal		
9648.00	33.69	38.12	9.01	35.90	44.92	54.00	-9.08	Horizontal		
12060.00	*					54.00		Horizontal		
14472.00	*					54.00		Horizontal		

Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Peak
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		
4874.00	47.83	31.57	5.91	34.65	50.66	74.00	-23.34	Vertical		
7311.00	38.09	36.47	7.14	36.14	45.56	74.00	-28.44	Vertical		
9748.00	38.31	38.30	9.03	36.00	49.64	74.00	-24.36	Vertical		
12185.00	*					74.00		Vertical		
14622.00	*					74.00		Vertical		
4874.00	42.22	31.79	5.97	34.90	45.61	74.00	-28.39	Horizontal		
7311.00	38.51	36.48	7.14	36.14	46.56	74.00	-27.44	Horizontal		
9748.00	39.58	38.45	9.06	36.24	51.46	74.00	-22.54	Horizontal		
12185.00	*					74.00		Horizontal		
14622.00	*					74.00		Horizontal		

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Average
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		
4874.00	31.47	31.57	5.91	34.65	34.30	54.00	-19.70	Vertical		
7311.00	30.98	36.47	7.14	36.14	38.45	54.00	-15.55	Vertical		
9748.00	32.02	38.30	9.03	36.00	43.35	54.00	-10.65	Vertical		
12185.00	*					54.00		Vertical		
14622.00	*					54.00		Vertical		
4874.00	35.22	31.79	5.97	34.90	38.59	54.00	-15.41	Horizontal		
7311.00	31.88	36.48	7.14	36.14	39.91	54.00	-14.09	Horizontal		
9748.00	32.20	38.45	9.06	36.24	44.06	54.00	-9.94	Horizontal		
12185.00	*					54.00		Horizontal		
14622.00	*					54.00		Horizontal		

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Peak
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		
4924.00	48.92	31.61	5.93	34.76	51.70	74.00	-22.30	Vertical		
7386.00	39.52	36.52	7.16	36.16	47.04	74.00	-26.96	Vertical		
9848.00	38.77	38.69	9.11	36.53	50.04	74.00	-23.96	Vertical		
12310.00	*					74.00		Vertical		
14772.00	*					74.00		Vertical		
4924.00	47.66	31.61	5.93	34.76	50.44	74.00	-23.56	Horizontal		
7386.00	38.55	36.52	7.16	36.16	46.07	74.00	-27.93	Horizontal		
9848.00	38.09	38.67	9.08	36.47	49.37	74.00	-24.63	Horizontal		
12310.00	*					74.00		Horizontal		
14772.00	*					74.00		Horizontal		

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Average
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		
4924.00	32.09	31.61	5.93	34.76	34.87	54.00	-19.13	Vertical		
7386.00	32.82	36.52	7.16	36.16	40.34	54.00	-13.66	Vertical		
9848.00	33.18	38.69	9.11	36.53	44.45	54.00	-9.55	Vertical		
12310.00	*					54.00		Vertical		
14772.00	*					54.00		Vertical		
4924.00	31.10	31.61	5.93	34.76	33.88	54.00	-20.12	Horizontal		
7386.00	32.16	36.52	7.16	36.16	39.68	54.00	-14.32	Horizontal		
9848.00	30.22	38.67	9.08	36.47	41.50	54.00	-12.50	Horizontal		
12310.00	*					54.00		Horizontal		
14772.00	*					54.00		Horizontal		

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Peak
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		
4844.00	47.93	31.56	5.89	34.58	50.80	74.00	-23.20	Vertical		
7266.00	38.31	36.49	7.10	36.12	45.78	74.00	-28.22	Vertical		
9688.00	38.21	38.25	9.03	35.97	49.52	74.00	-24.48	Vertical		
12110.00	*					74.00		Vertical		
14532.00	*					74.00		Vertical		
4844.00	48.47	31.56	5.89	34.58	51.34	74.00	-22.66	Horizontal		
7266.00	38.69	36.49	7.12	36.12	46.18	74.00	-27.82	Horizontal		
9688.00	38.56	38.25	9.03	35.97	49.87	74.00	-24.13	Horizontal		
12110.00	*					74.00		Horizontal		
14532.00	*					74.00		Horizontal		

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Average
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		
4844.00	31.01	31.56	5.89	34.58	33.88	54.00	-20.12	Vertical		
7266.00	31.09	36.49	7.10	36.12	38.56	54.00	-15.44	Vertical		
9688.00	29.91	38.25	9.03	35.97	41.22	54.00	-12.78	Vertical		
12110.00	*					54.00		Vertical		
14532.00	*					54.00		Vertical		
4844.00	32.44	31.56	5.89	34.58	35.31	54.00	-18.69	Horizontal		
7266.00	32.38	36.49	7.12	36.12	39.87	54.00	-14.13	Horizontal		
9688.00	32.09	38.25	9.03	35.97	43.40	54.00	-10.60	Horizontal		
12110.00	*					54.00		Horizontal		
14532.00	*					54.00		Horizontal		

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Peak
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		
4874.00	47.90	31.57	5.91	34.65	50.73	74.00	-23.27	Vertical		
7311.00	38.09	36.48	7.14	36.14	45.57	74.00	-28.43	Vertical		
9784.00	38.36	38.40	9.06	36.12	49.70	74.00	-24.30	Vertical		
12233.00	*					74.00		Vertical		
14688.00	*					74.00		Vertical		
4874.00	48.25	31.57	5.91	34.65	51.08	74.00	-22.92	Horizontal		
7311.00	37.96	36.48	7.14	36.14	45.44	74.00	-28.56	Horizontal		
9784.00	37.63	38.45	9.06	36.18	48.96	74.00	-25.04	Horizontal		
12233.00	*					74.00		Horizontal		
14688.00	*					74.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Average
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		
4874.00	31.98	31.57	5.91	34.65	34.81	54.00	-19.19	Vertical		
7311.00	31.17	36.48	7.14	36.14	38.65	54.00	-15.35	Vertical		
9784.00	31.08	38.40	9.06	36.12	42.42	54.00	-11.58	Vertical		
12233.00	*					54.00		Vertical		
14688.00	*					54.00		Vertical		
4874.00	31.10	31.57	5.91	34.65	33.93	54.00	-20.07	Horizontal		
7311.00	31.36	36.48	7.14	36.14	38.84	54.00	-15.16	Horizontal		
9784.00	30.07	38.45	9.06	36.18	41.40	54.00	-12.60	Horizontal		
12233.00	*					54.00		Horizontal		
14688.00	*					54.00		Horizontal		

Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Peak
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		
4904.00	47.42	31.61	5.93	34.76	50.20	74.00	-23.80	Vertical		
7356.00	39.09	36.54	7.16	36.16	46.63	74.00	-27.37	Vertical		
9808.00	37.82	38.67	9.08	36.41	49.16	74.00	-24.84	Vertical		
12233.00	*					74.00		Vertical		
14688.00	*					74.00		Vertical		
4904.00	48.09	31.59	5.93	34.72	50.89	74.00	-23.11	Horizontal		
7356.00	38.67	36.49	7.16	36.16	46.16	74.00	-27.84	Horizontal		
9808.00	38.66	38.64	9.08	36.35	50.03	74.00	-23.97	Horizontal		
12233.00	*					74.00		Horizontal		
14688.00	*					74.00		Horizontal		

Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Average
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		
4904.00	30.33	31.61	5.93	34.76	33.11	54.00	-20.89	Vertical		
7356.00	32.29	36.54	7.16	36.16	39.83	54.00	-14.17	Vertical		
9808.00	30.35	38.67	9.08	36.41	41.69	54.00	-12.31	Vertical		
12260.00	*					54.00		Vertical		
14712.00	*					54.00		Vertical		
4904.00	30.35	31.59	5.93	34.72	33.15	54.00	-20.85	Horizontal		
7356.00	32.21	36.49	7.16	36.16	39.70	54.00	-14.30	Horizontal		
9808.00	31.22	38.64	9.08	36.35	42.59	54.00	-11.41	Horizontal		
12260.00	*					54.00		Horizontal		
14712.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "\*" means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.