

FCC REPORT

Applicant: Shenzhen Ogemray Technology Co.,Ltd
Address of Applicant: 3/F,No.9 Bldg.Minxing Industrial Park.Minkang Rd.Minzhi St.
Baoan District. Shenzhen

Equipment Under Test (EUT)

Product Name: Wireless USB Adaptor

Model No.: GWF-3S4T

FCC ID: YWTWF3SXXT

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

Date of sample receipt: Feb. 20, 2012

Date of Test: Feb. 21- 27, 2012

Date of report issued: Mar. 02, 2012

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.

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2 Version

Version No.	Date	Description
00	Mar. 02, 2012	Original

Prepared By:

Collin He

Date:

Mar. 02, 2012

Project Engineer

Check By:

Hans Hu

Date:

Mar. 02, 2012

Reviewer

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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:	Shenzhen Ogemray Technology Co.,Ltd
Address of Applicant:	3/F,No.9 Bldg.Minxing Industrial Park.Minkang Rd.Minzhi St. Baoan District. Shenzhen
Manufacturer:	Shenzhen Ogemray Technology Co.,Ltd
Address of Manufacturer/	3/F,No.9 Bldg.Minxing Industrial Park.Minkang Rd.Minzhi St. Baoan District. Shenzhen
Factory:	Shenzhen Ogemray Technology Co.,Ltd
Address of Factory:	3/F,No.9 Bldg.Minxing Industrial Park.Minkang Rd.Minzhi St. Baoan District. Shenzhen

5.2 General Description of E.U.T.

Product Name:	Wireless USB Adaptor
Model No.:	GWF-3S4T
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g /802.11n(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)
Antenna Type:	Dipole Antenna(undetachable antenna)
Antenna gain:	2dBi(declare by Applicant)
Power supply:	DC 5V by USB Port

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 mode

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

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 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
IBM	Notebook	T42	GTS209	DoC
IBM	AC Adapter	92P1024	N/A	DoC
HP	MOUSE	SF-8360	N/A	DoC
HP	KEYBOARD	WB365PA	N/A	DoC


5.8 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. 25 2012	Feb. 24 2013
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
10	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 Limit	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	LISN	ETS-LINDGREN	3816/2	GTS232	Jul. 04 2011	Jul. 03 2012
6	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

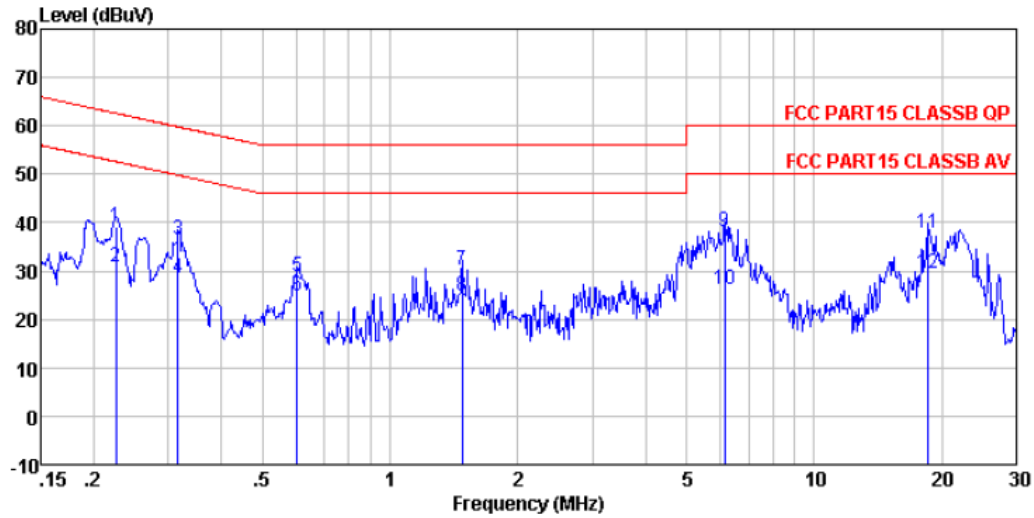
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that 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.</p> <p>15.247(c) (1)(i) requirement:</p> <p>(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.</p>	
E.U.T Antenna:	
<p><i>The antenna is undetachable antenna, the best case gain of the antenna is 2dBi</i></p> 	

6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4:2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
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 setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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. 														
Test Instruments:	Refer to section 5.8 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

Measurement data:

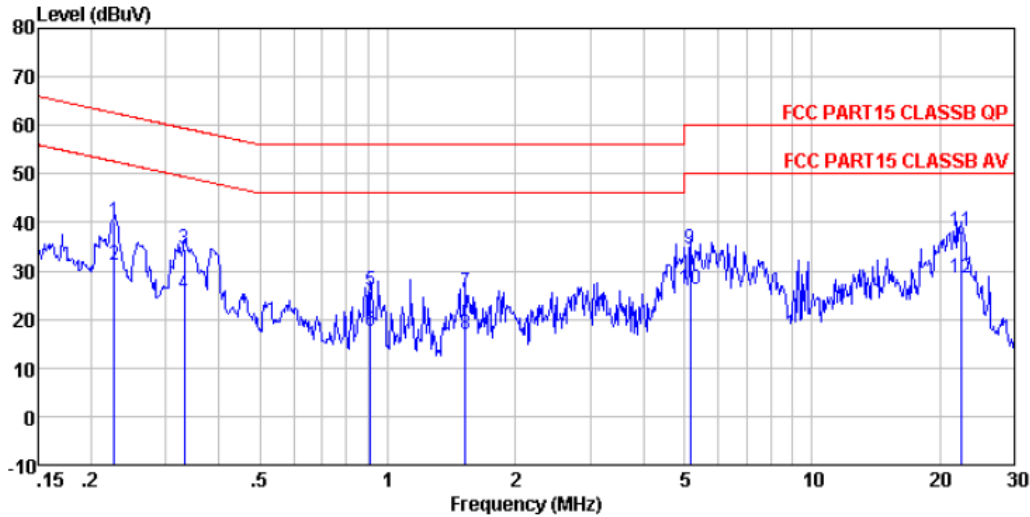
Line:



Condition : FCC PART15 CLASSB QP LISN(2011) LINE
 Job No : 095RF
 Test mode : WIFI mode
 Test engineer: Collin

	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	30.14	0.64	0.10	30.88	52.61	-21.73	Average
3	0.317	35.63	0.60	0.10	36.33	59.80	-23.47	QP
4	0.317	27.98	0.60	0.10	28.68	49.80	-21.12	Average
5	0.604	28.20	0.53	0.10	28.83	56.00	-27.17	QP
6	0.604	24.30	0.53	0.10	24.93	46.00	-21.07	Average
7	1.480	29.70	0.43	0.10	30.23	56.00	-25.77	QP
8	1.480	24.31	0.43	0.10	24.84	46.00	-21.16	Average
9	6.153	37.68	0.28	0.12	38.08	60.00	-21.92	QP
10	6.153	25.64	0.28	0.12	26.04	50.00	-23.96	Average
11	18.622	37.30	0.15	0.21	37.66	60.00	-22.34	QP
12	18.622	29.26	0.15	0.21	29.62	50.00	-20.38	Average

Neutral:



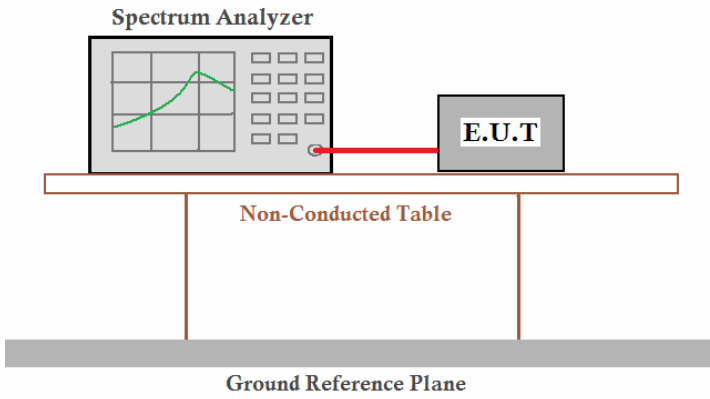
Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL
 Job No : 095RF
 Test mode : WIFI mode
 Test engineer: Collin

	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	30.33	0.64	0.10	31.07	52.57	-21.50	Average
3	0.332	33.85	0.60	0.10	34.55	59.40	-24.85	QP
4	0.332	24.58	0.60	0.10	25.28	49.40	-24.12	Average
5	0.909	25.12	0.49	0.10	25.71	56.00	-30.29	QP
6	0.909	16.89	0.49	0.10	17.48	46.00	-28.52	Average
7	1.527	25.09	0.43	0.10	25.62	56.00	-30.38	QP
8	1.527	16.51	0.43	0.10	17.04	46.00	-28.96	Average
9	5.166	34.02	0.30	0.10	34.42	60.00	-25.58	QP
10	5.166	25.81	0.30	0.10	26.21	50.00	-23.79	Average
11	22.535	37.89	0.13	0.21	38.23	60.00	-21.77	QP
12	22.535	28.11	0.13	0.21	28.45	50.00	-21.55	Average

Notes:

1. An initial pre-scan was performed on the line 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 C63.4:2003 and KDB558074 D01 Meas Guidance
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

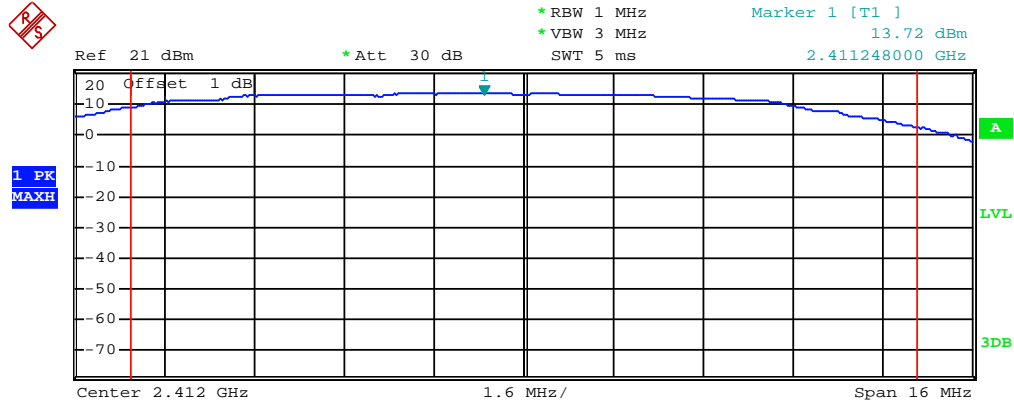
Measurement Data

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	22.86	22.49	20.88	20.14	30.00	Pass
Middle	22.74	22.26	21.29	20.08		
Highest	22.27	22.32	21.03	20.04		

Test CH	Average Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	18.81	15.79	14.42	14.00	30.00	Pass
Middle	18.74	15.53	14.53	13.95		
Highest	18.39	15.65	14.49	13.92		

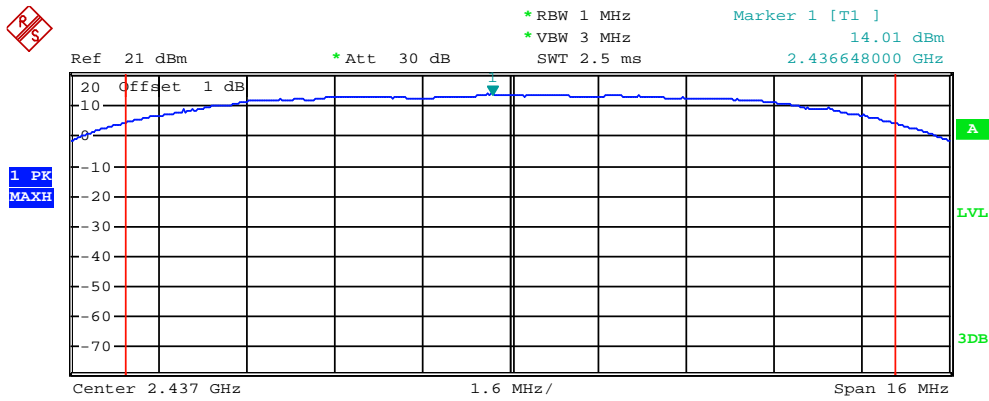
Test plot as follows:

Test mode: 802.11b



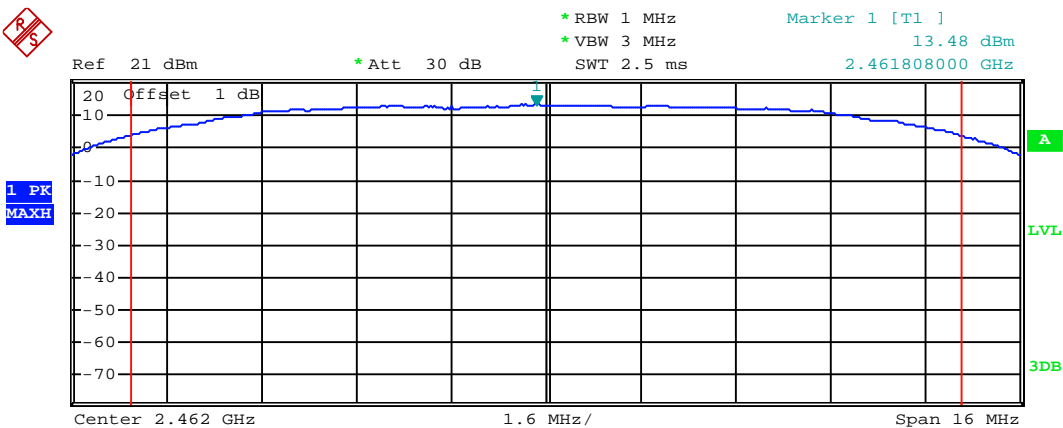
Tx Channel
 Bandwidth 14 MHz Power 22.86 dBm

Lowest channel



Tx Channel
 Bandwidth 14 MHz Power 22.74 dBm

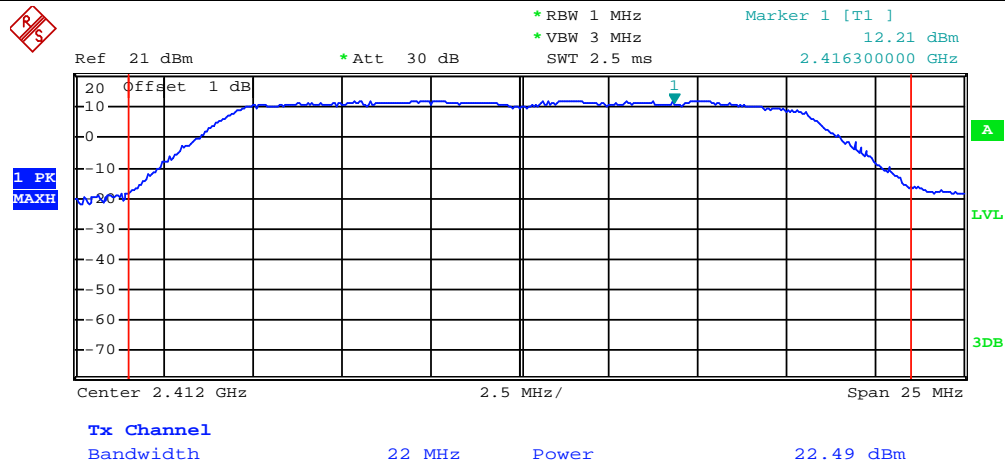
Middle channel



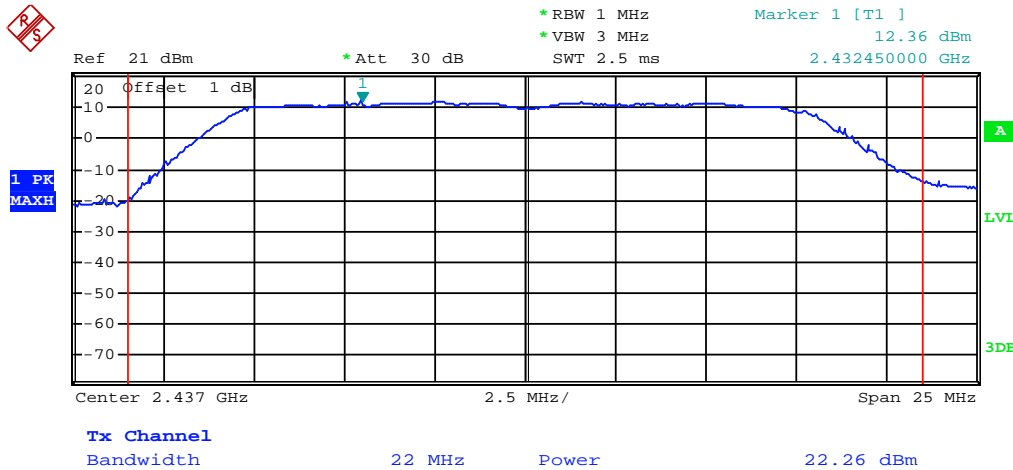
Tx Channel
 Bandwidth 14 MHz Power 22.27 dBm

Highest channel

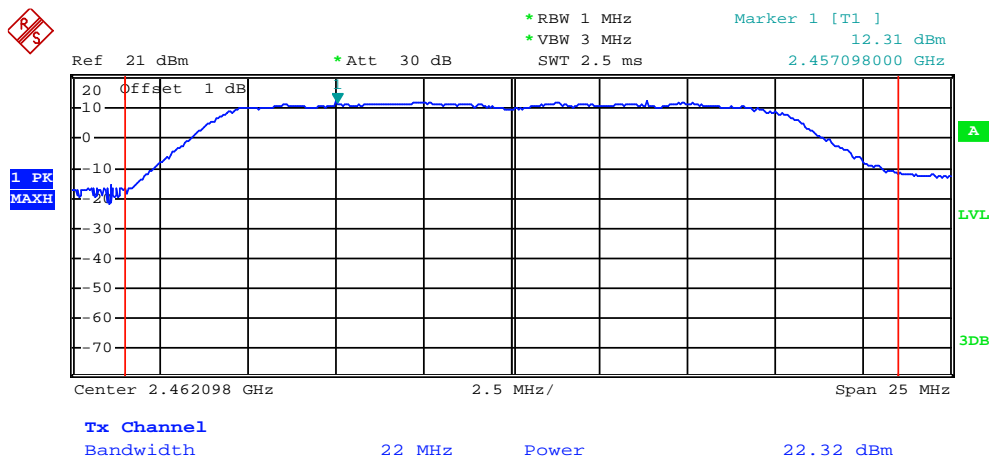
Test mode: 802.11g



Lowest channel

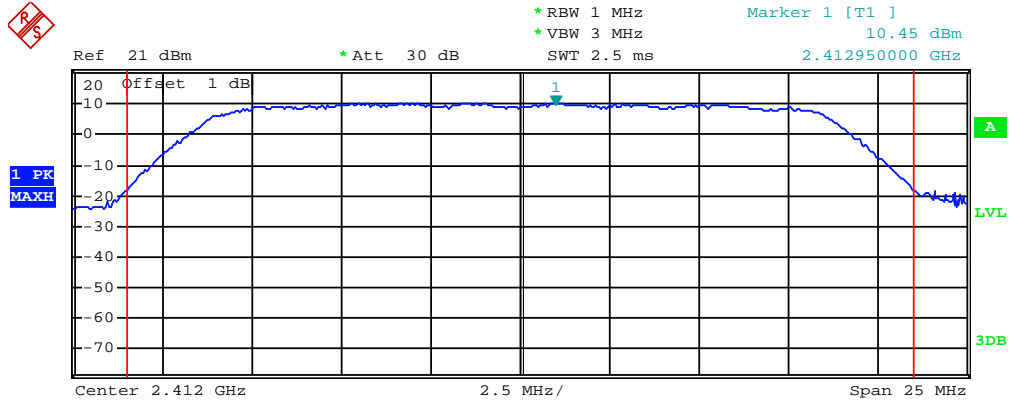


Middle channel

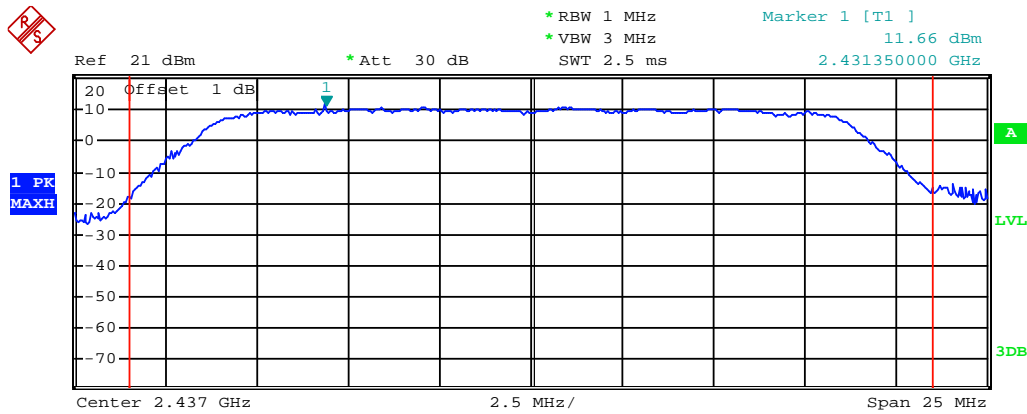


Highest channel

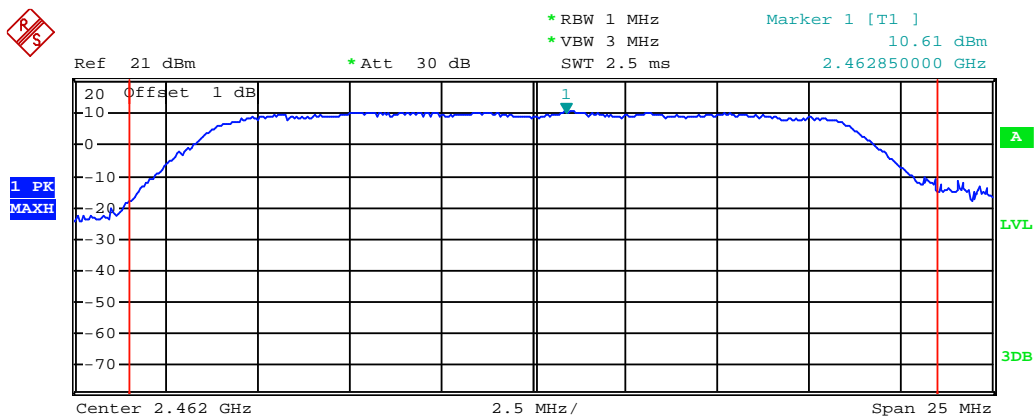
Test mode: 802.11n(H20)



Lowest channel

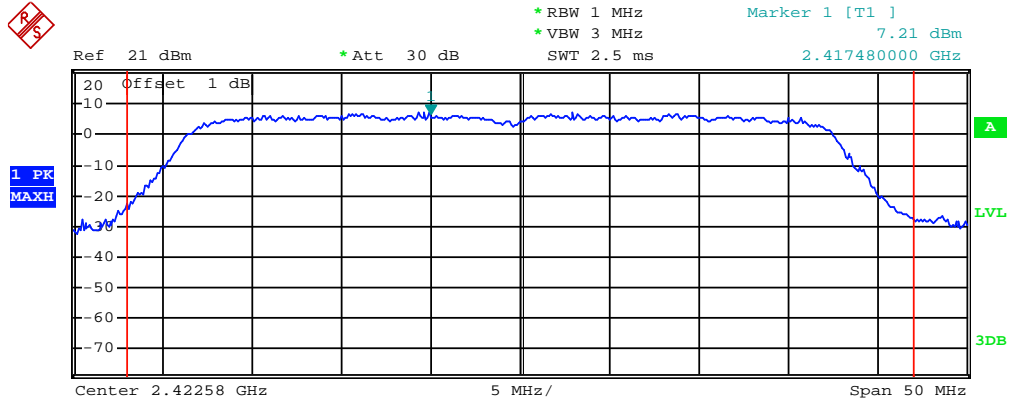


Middle channel



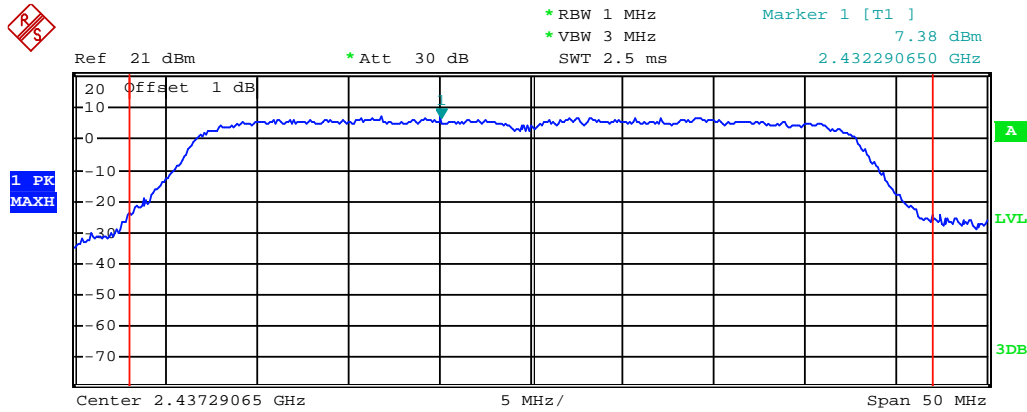
Highest channel

Test mode: 802.11n(H40)



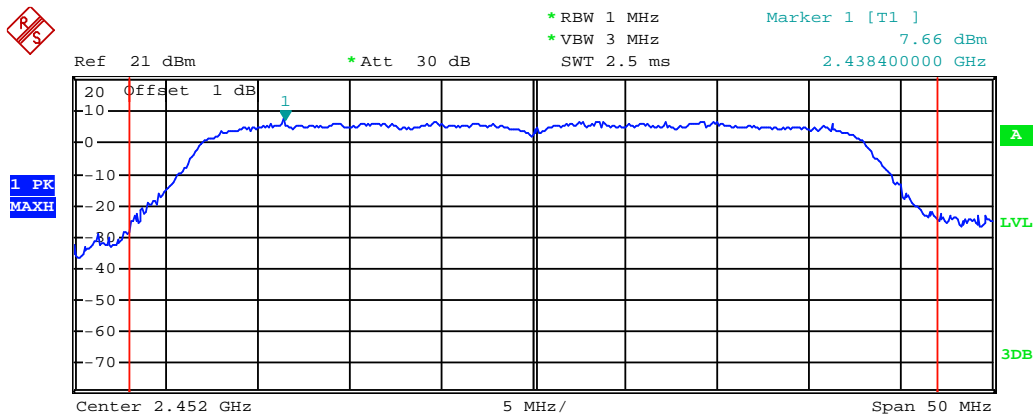
Tx Channel
Bandwidth 44 MHz Power 20.14 dBm

Lowest channel



Tx Channel
Bandwidth 44 MHz Power 20.08 dBm

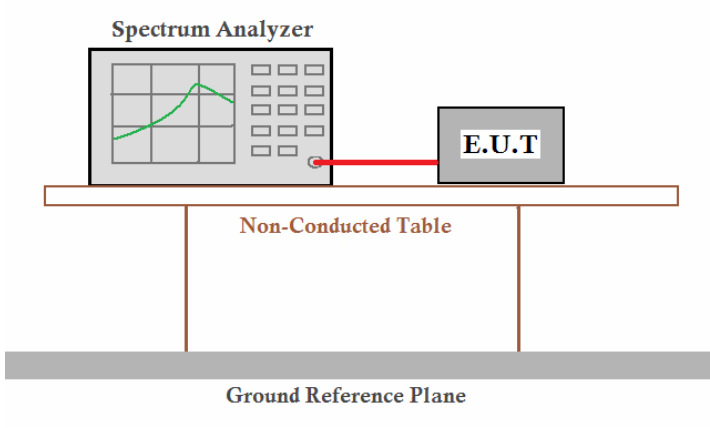
Middle channel



Tx Channel
Bandwidth 44 MHz Power 20.04 dBm

Highest channel

6.4 Emission Bandwidth

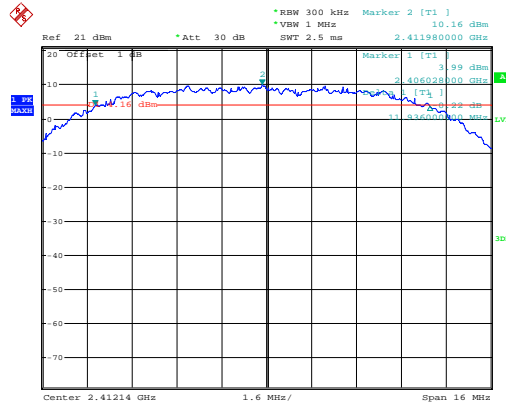
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 Meas Guidance
Limit:	>500KHz
Test setup:	 <p>The diagram shows a Spectrum Analyzer on the left and an E.U.T. on the right, connected by a red cable. They are both on a table labeled 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH	Emission Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	11.93	16.60	17.45	35.70	>500	Pass
Middle	11.97	16.55	17.45	35.70		
Highest	11.97	16.55	17.40	35.40		

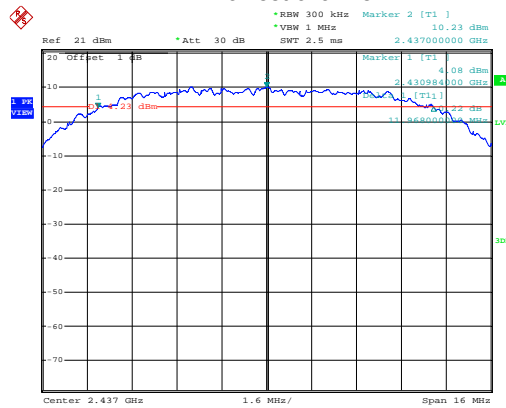
Test plot as follows:

Test mode: 802.11b



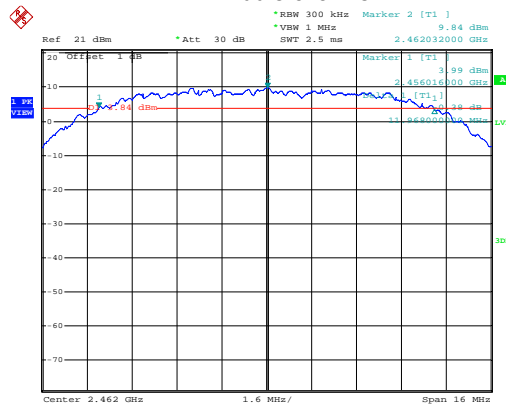
Date: 25.FEB.2012 05:01:57

Lowest channel



Date: 27.FEB.2012 05:26:56

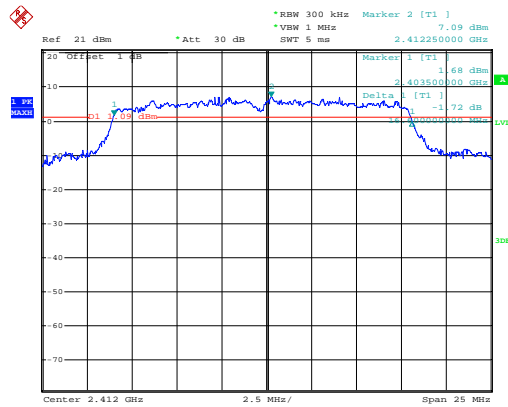
Middle channel



Date: 27.FEB.2012 05:33:00

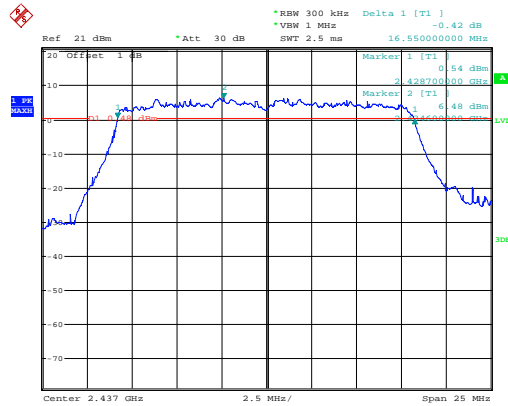
Highest channel

Test mode: 802.11g



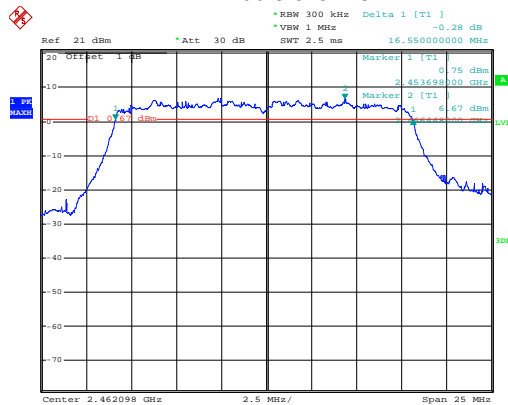
Date: 29.FEB.2012 10:08:37

Lowest channel



Date: 27.FEB.2012 05:59:30

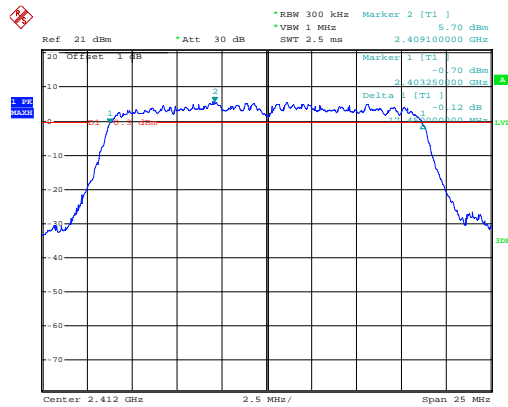
Middle channel



Date: 27.FEB.2012 06:06:34

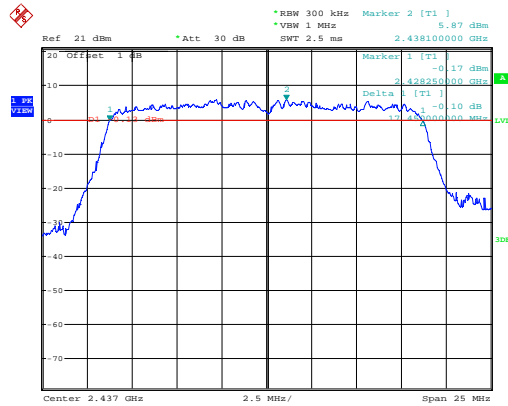
Highest channel

Test mode:	802.11n(H20)
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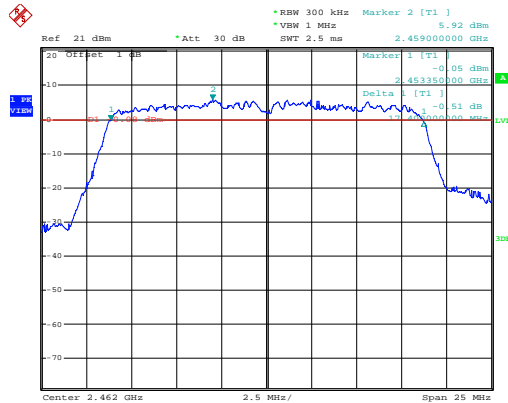
Date: 27.FEB.2012 06:13:35

Lowest channel



Date: 27.FEB.2012 06:20:56

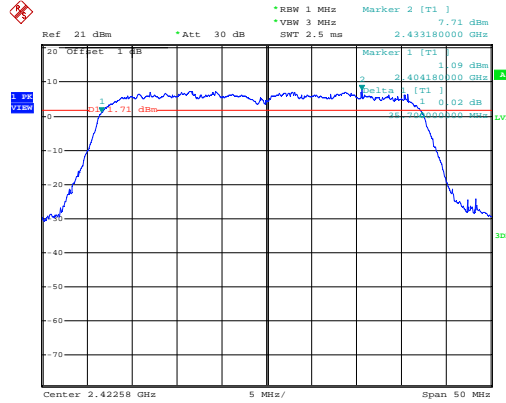
Middle channel



Date: 27.FEB.2012 06:25:46

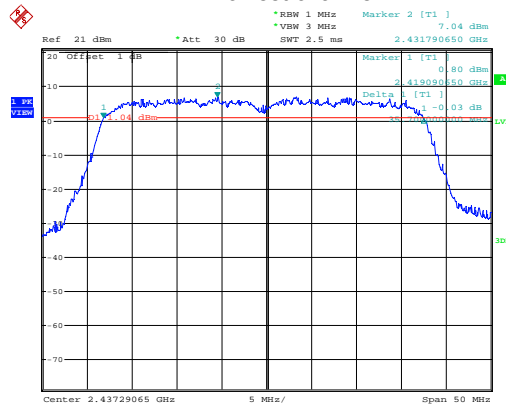
Highest channel

Test mode: 802.11n(H40)



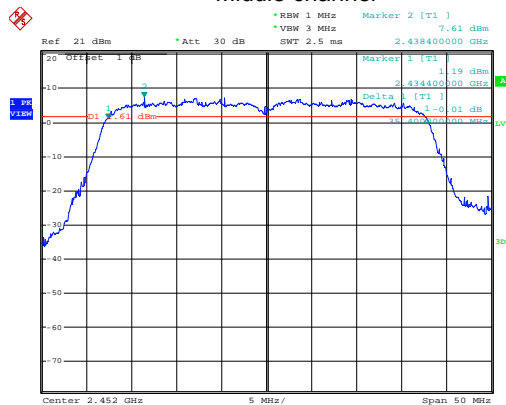
Date: 27.FEB.2012 06:32:47

Lowest channel



Date: 27.FEB.2012 06:38:18

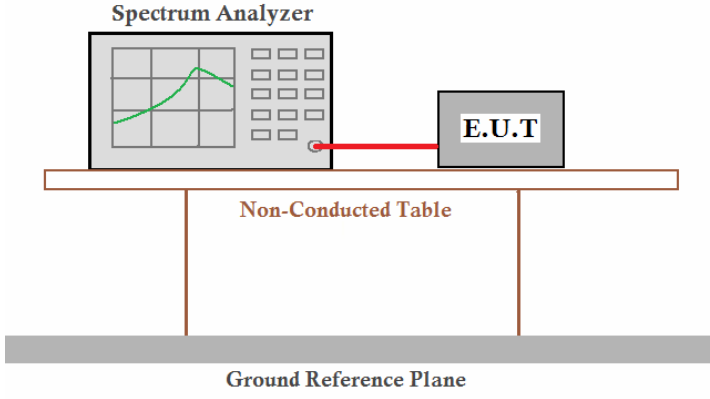
Middle channel



Date: 27.FEB.2012 06:41:39

Highest channel

6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 Meas Guidance
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

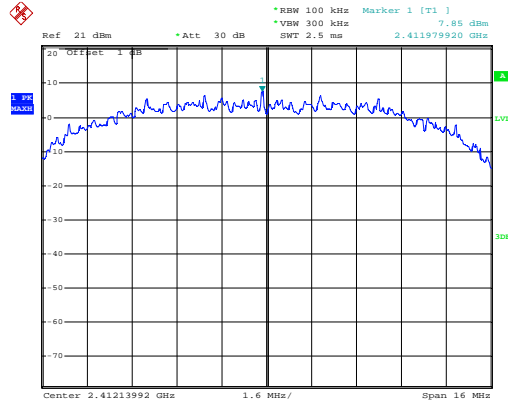
Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm))	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-7.35	-12.67	-13.91	-17.18	8.00	Pass
Middle	-7.47	-13.09	-13.45	-17.40		
Highest	-7.46	-12.94	-13.80	-17.59		

Remark: BWCF = $10\log(3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$

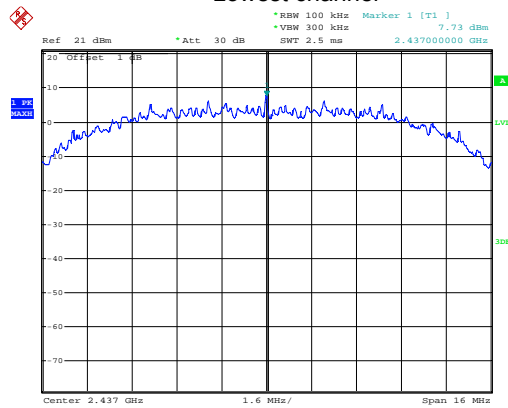
Test plot as follows:

Test mode:	802.11b
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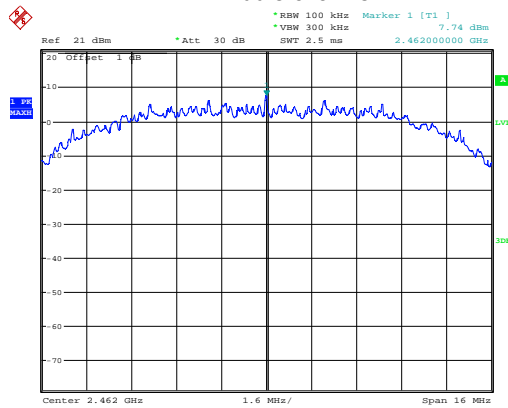
Date: 25.FEB.2012 05:04:31

Lowest channel



Date: 27.FEB.2012 05:29:44

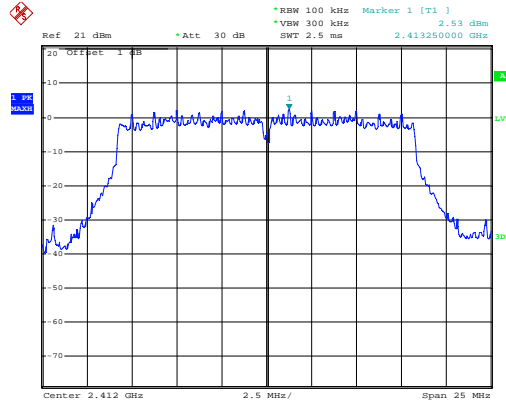
Middle channel



Date: 27.FEB.2012 05:33:50

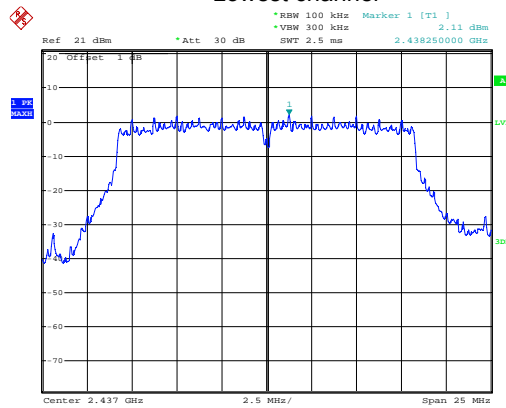
Highest channel

Test mode: 802.11g



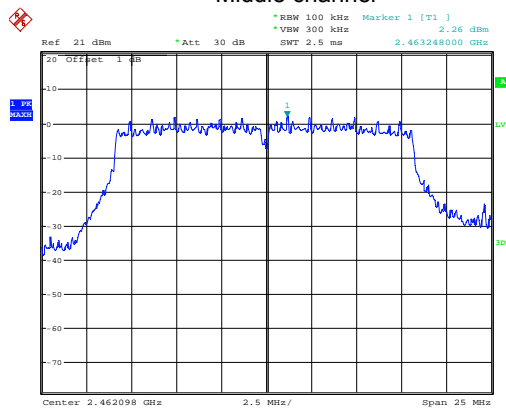
Date: 27.FEB.2012 05:40:48

Lowest channel



Date: 27.FEB.2012 06:00:35

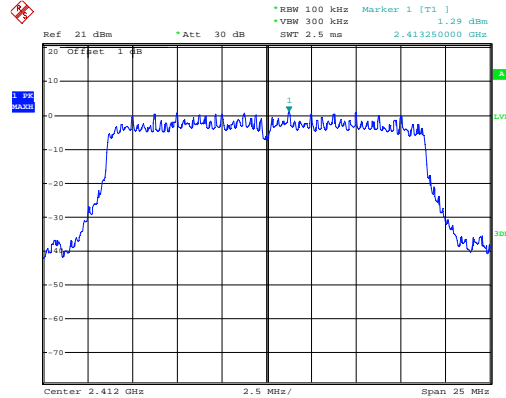
Middle channel



Date: 27.FEB.2012 06:07:15

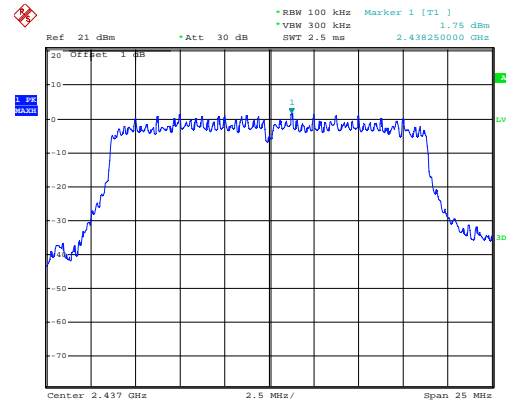
Highest channel

Test mode:	802.11n(H20)
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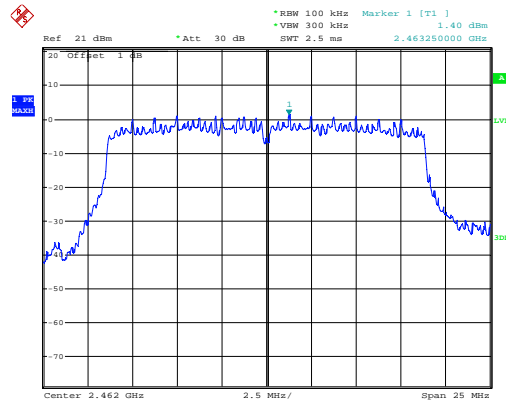
Date: 27.FEB.2012 06:14:08

Lowest channel



Date: 27.FEB.2012 06:21:29

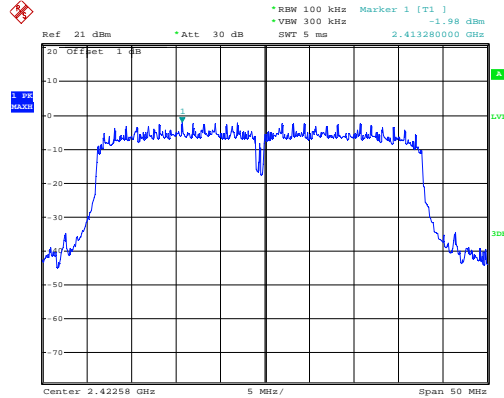
Middle channel



Date: 27.FEB.2012 06:26:20

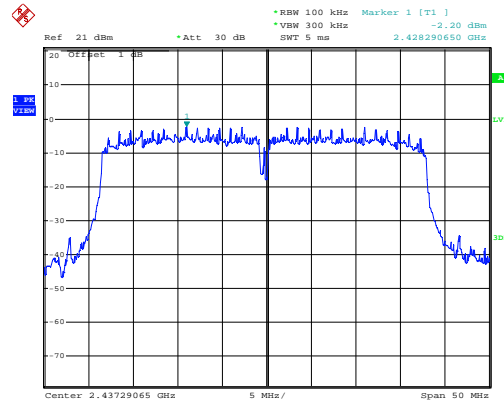
Highest channel

Test mode:	802.11n(H40)
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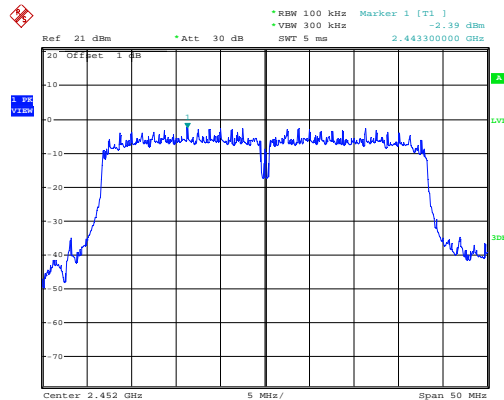
Date: 27.FEB.2012 06:33:27

Lowest channel



Date: 27.FEB.2012 06:38:58

Middle channel

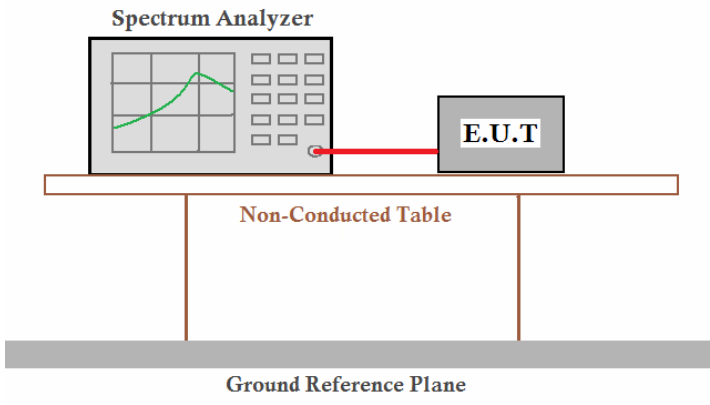


Date: 27.FEB.2012 06:42:12

Highest channel

6.6 Band edges

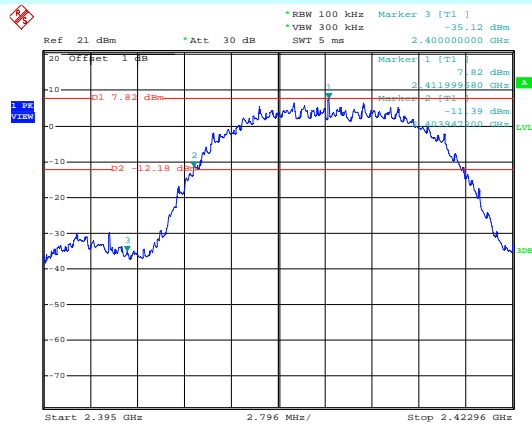
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 Meas Guidance
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 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:

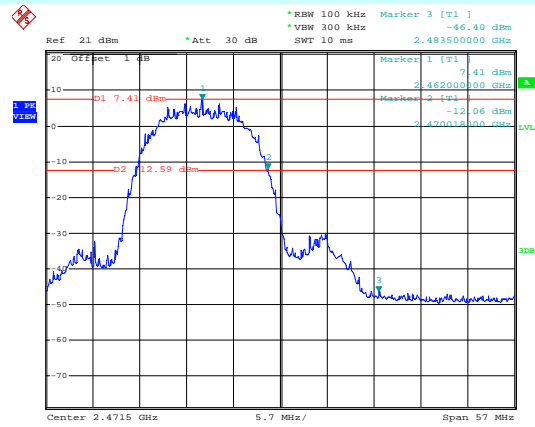
Test mode:

802.11b



Date: 25.FEB.2012 05:09:35

Lowest channel

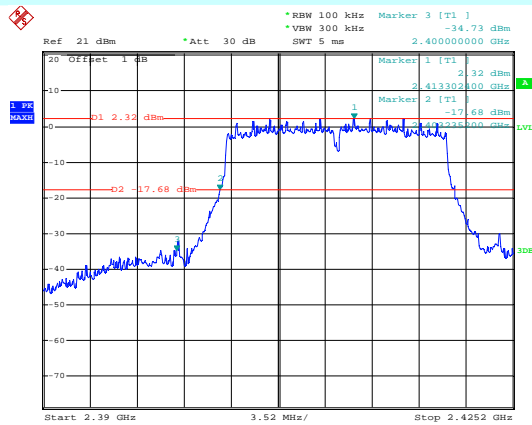


Date: 27.FEB.2012 05:36:08

Highest channel

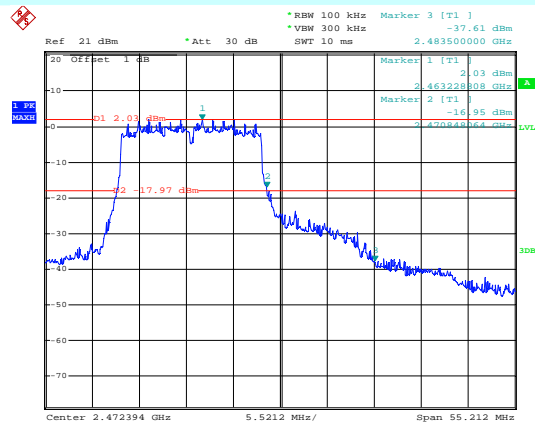
Test mode:

802.11g



Date: 27.FEB.2012 05:43:19

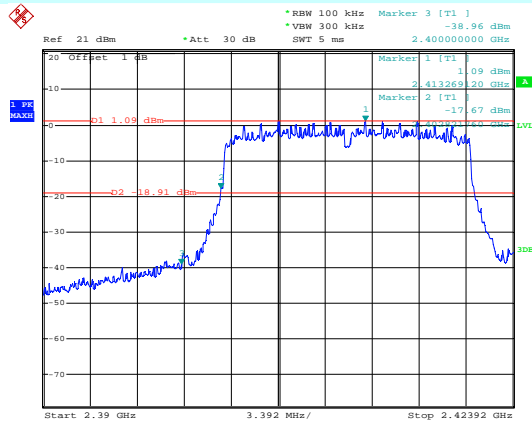
Lowest channel



Date: 27.FEB.2012 06:09:44

Highest channel

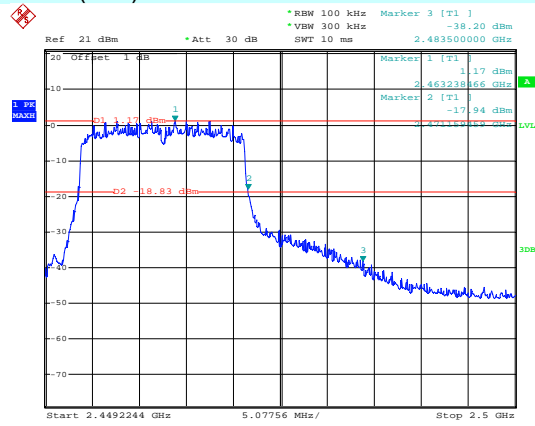
Test mode:



Date: 27.FEB.2012 06:16:57

Lowest channel

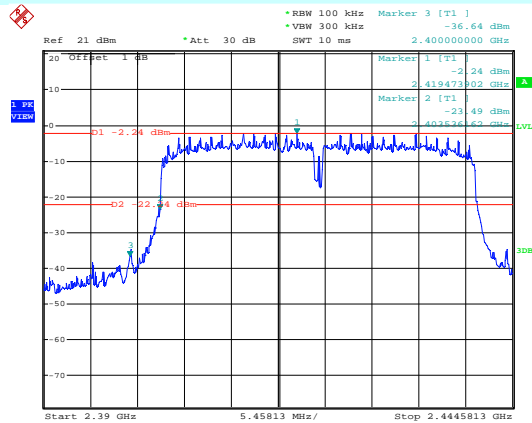
802.11n(H20)



Date: 27.FEB.2012 06:29:19

Highest channel

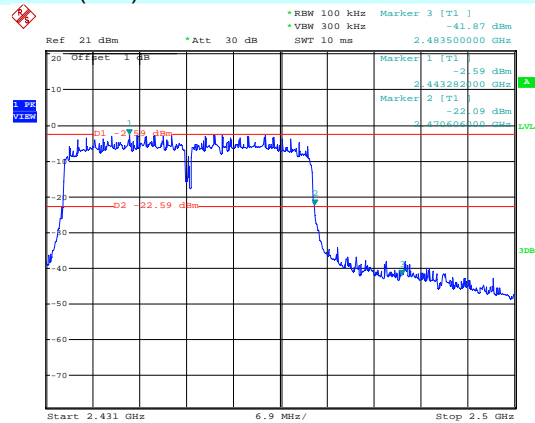
Test mode:



Date: 27.FEB.2012 06:36:08

Lowest channel

802.11n(H40)



Date: 27.FEB.2012 06:45:05

Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	2.3GHz to 2.5GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Test setup:					
Test Procedure:	<ol style="list-style-type: none"> 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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

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	34.90	27.59	3.33	30.10	35.72	74.00	-38.28	Horizontal
2400.00	34.36	27.58	3.37	30.10	35.21	74.00	-38.79	Horizontal
2390.00	36.13	27.59	3.33	30.10	36.95	74.00	-37.05	Vertical
2400.00	35.58	27.58	3.37	30.10	36.43	74.00	-37.57	Vertical

Average value:

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	28.24	27.59	3.33	30.10	29.06	54.00	-24.94	Horizontal
2400.00	28.05	27.58	3.37	30.10	28.90	54.00	-25.10	Horizontal
2390.00	29.50	27.59	3.33	30.10	30.32	54.00	-23.68	Vertical
2400.00	29.27	27.58	3.37	30.10	30.12	54.00	-23.88	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

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	33.82	27.53	3.49	29.93	34.91	74.00	-39.09	Horizontal
2500.00	33.33	27.55	3.52	30.70	33.70	74.00	-40.30	Horizontal
2483.50	35.06	27.53	3.49	29.93	36.15	74.00	-37.85	Vertical
2500.00	34.56	27.55	3.52	30.70	34.93	74.00	-39.07	Vertical

Average value:

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	27.26	27.53	3.49	29.93	28.35	54.00	-25.65	Horizontal
2500.00	26.87	27.55	3.52	30.70	27.24	54.00	-26.76	Horizontal
2483.50	28.50	27.53	3.49	29.93	29.59	54.00	-24.41	Vertical
2500.00	28.34	27.55	3.52	30.70	28.71	54.00	-25.29	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 mode:	802.11g	Test channel:	Lowest
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Peak value:

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	34.79	27.59	3.33	30.10	35.61	74.00	-38.39	Horizontal
2400.00	34.21	27.58	3.37	30.10	35.06	74.00	-38.94	Horizontal
2390.00	36.02	27.59	3.33	30.10	36.84	74.00	-37.16	Vertical
2400.00	35.43	27.58	3.37	30.10	36.28	74.00	-37.72	Vertical

Average value:

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	28.13	27.59	3.33	30.10	28.95	54.00	-25.05	Horizontal
2400.00	27.90	27.58	3.37	30.10	28.75	54.00	-25.25	Horizontal
2390.00	29.39	27.59	3.33	30.10	30.21	54.00	-23.79	Vertical
2400.00	29.12	27.58	3.37	30.10	29.97	54.00	-24.03	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

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	33.70	27.53	3.49	29.93	34.79	74.00	-39.21	Horizontal
2500.00	33.19	27.55	3.52	30.70	33.56	74.00	-40.44	Horizontal
2483.50	34.94	27.53	3.49	29.93	36.03	74.00	-37.97	Vertical
2500.00	34.42	27.55	3.52	30.70	34.79	74.00	-39.21	Vertical

Average value:

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	27.14	27.53	3.49	29.93	28.23	54.00	-25.77	Horizontal
2500.00	26.73	27.55	3.52	30.70	27.10	54.00	-26.90	Horizontal
2483.50	28.38	27.53	3.49	29.93	29.47	54.00	-24.53	Vertical
2500.00	28.20	27.55	3.52	30.70	28.57	54.00	-25.43	Vertical

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *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
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Peak value:

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	34.58	27.59	3.33	30.10	35.40	74.00	-38.60	Horizontal
2400.00	34.11	27.58	3.37	30.10	34.96	74.00	-39.04	Horizontal
2390.00	35.81	27.59	3.33	30.10	36.63	74.00	-37.37	Vertical
2400.00	35.33	27.58	3.37	30.10	36.18	74.00	-37.82	Vertical

Average value:

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	27.92	27.59	3.33	30.10	28.74	54.00	-25.26	Horizontal
2400.00	27.80	27.58	3.37	30.10	28.65	54.00	-25.35	Horizontal
2390.00	29.18	27.59	3.33	30.10	30.00	54.00	-24.00	Vertical
2400.00	29.02	27.58	3.37	30.10	29.87	54.00	-24.13	Vertical

Test mode:	802.11n(H20)	Test channel:	Highest
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Peak value:

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	33.54	27.53	3.49	29.93	34.63	74.00	-39.37	Horizontal
2500.00	32.99	27.55	3.52	30.70	33.36	74.00	-40.64	Horizontal
2483.50	34.78	27.53	3.49	29.93	35.87	74.00	-38.13	Vertical
2500.00	34.22	27.55	3.52	30.70	34.59	74.00	-39.41	Vertical

Average value:

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	26.98	27.53	3.49	29.93	28.07	54.00	-25.93	Horizontal
2500.00	26.53	27.55	3.52	30.70	26.90	54.00	-27.10	Horizontal
2483.50	28.22	27.53	3.49	29.93	29.31	54.00	-24.69	Vertical
2500.00	28.00	27.55	3.52	30.70	28.37	54.00	-25.63	Vertical

Test mode:	802.11n(H40)	Test channel:	Lowest
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Peak value:

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	34.27	27.59	3.33	30.10	35.09	74.00	-38.91	Horizontal
2400.00	33.79	27.58	3.37	30.10	34.64	74.00	-39.36	Horizontal
2390.00	35.50	27.59	3.33	30.10	36.32	74.00	-37.68	Vertical
2400.00	35.01	27.58	3.37	30.10	35.86	74.00	-38.14	Vertical

Average value:

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	27.61	27.59	3.33	30.10	28.43	54.00	-25.57	Horizontal
2400.00	27.48	27.58	3.37	30.10	28.33	54.00	-25.67	Horizontal
2390.00	28.87	27.59	3.33	30.10	29.69	54.00	-24.31	Vertical
2400.00	28.70	27.58	3.37	30.10	29.55	54.00	-24.45	Vertical

Test mode:	802.11n(H40)	Test channel:	Highest
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Peak value:

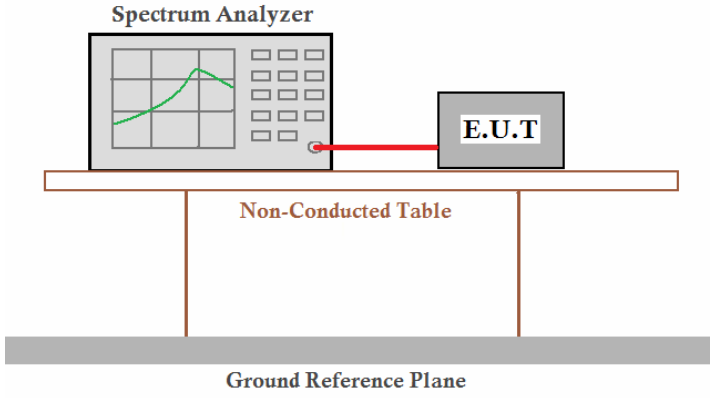
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.16	27.53	3.49	29.93	34.25	74.00	-39.75	Horizontal
2500.00	32.69	27.55	3.52	30.70	33.06	74.00	-40.94	Horizontal
2483.50	34.40	27.53	3.49	29.93	35.49	74.00	-38.51	Vertical
2500.00	33.92	27.55	3.52	30.70	34.29	74.00	-39.71	Vertical

Average value:

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	26.60	27.53	3.49	29.93	27.69	54.00	-26.31	Horizontal
2500.00	26.23	27.55	3.52	30.70	26.60	54.00	-27.40	Horizontal
2483.50	27.84	27.53	3.49	29.93	28.93	54.00	-25.07	Vertical
2500.00	27.70	27.55	3.52	30.70	28.07	54.00	-25.93	Vertical

6.7 Spurious Emission

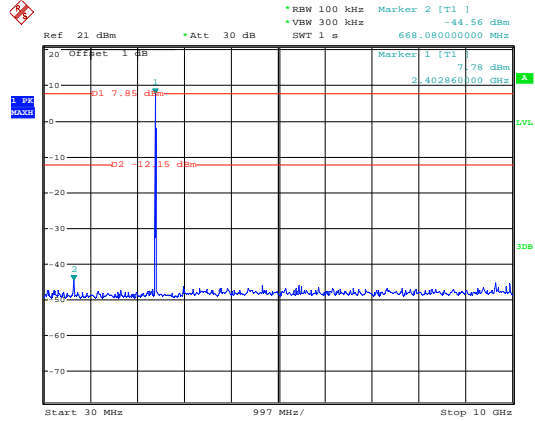
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 Meas Guidance
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 the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two legs and sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:

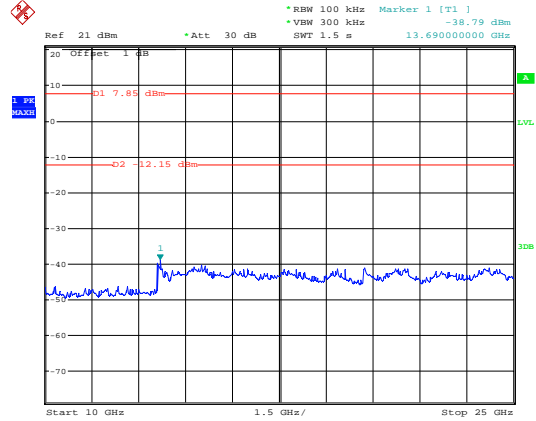
Test mode: 802.11b

Lowest channel



Date: 25.FEB.2012 05:06:38

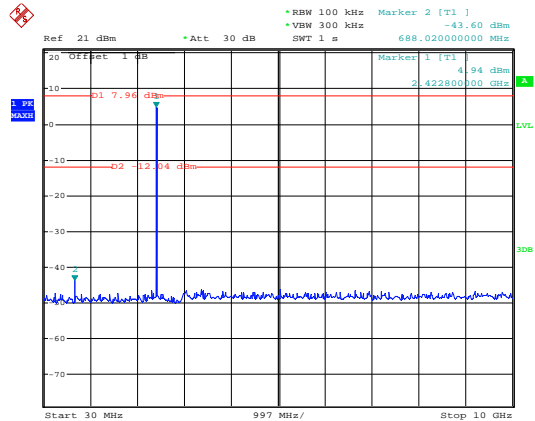
30MHz~10GHz



Date: 25.FEB.2012 05:07:08

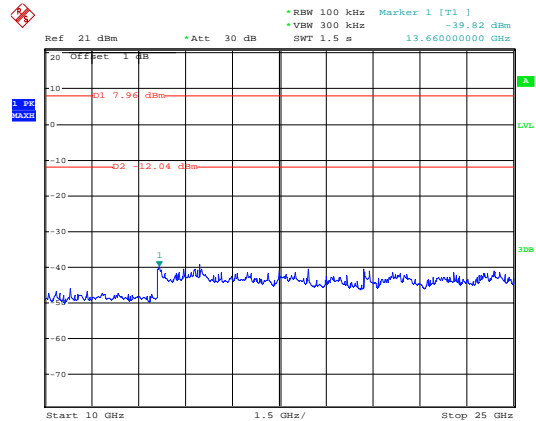
10GHz~25GHz

Middle channel



Date: 27.FEB.2012 05:28:33

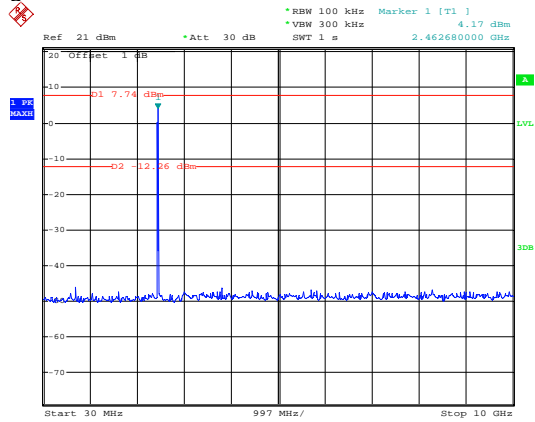
30MHz~10GHz



Date: 27.FEB.2012 05:28:49

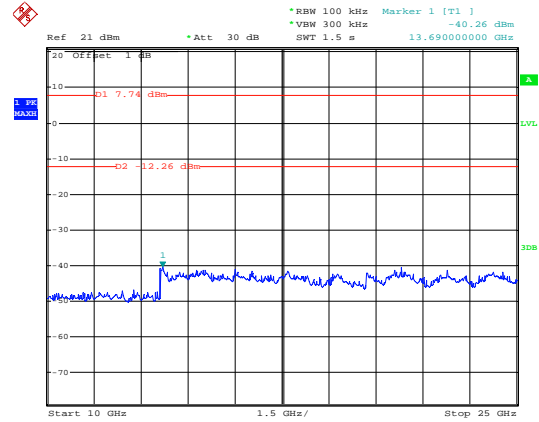
10GHz~25GHz

Highest channel



Date: 27.FEB.2012 05:34:32

30MHz~10GHz



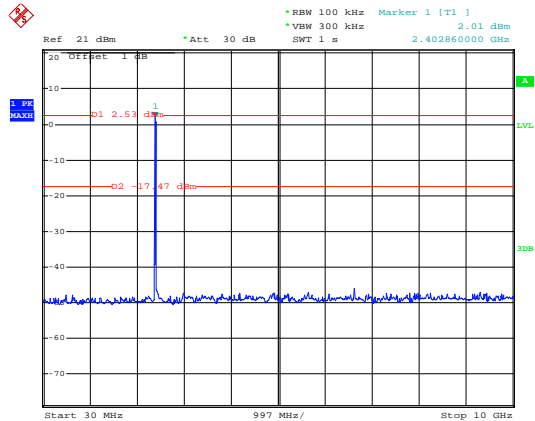
Date: 27.FEB.2012 05:34:48

10GHz~25GHz

Test mode:

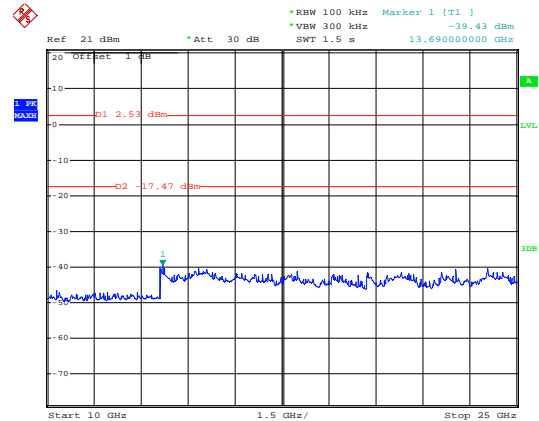
802.11g

Lowest channel



Date: 27.FEB.2012 05:41:25

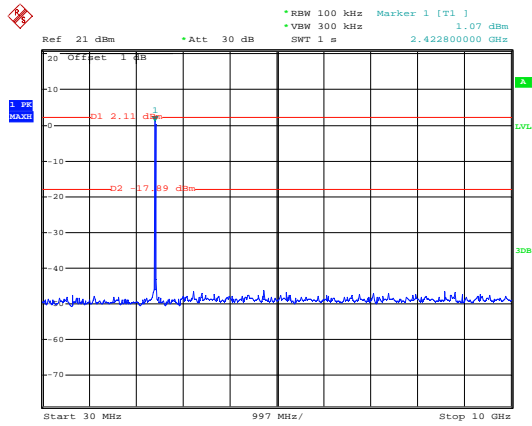
30MHz~10GHz



Date: 27.FEB.2012 05:41:39

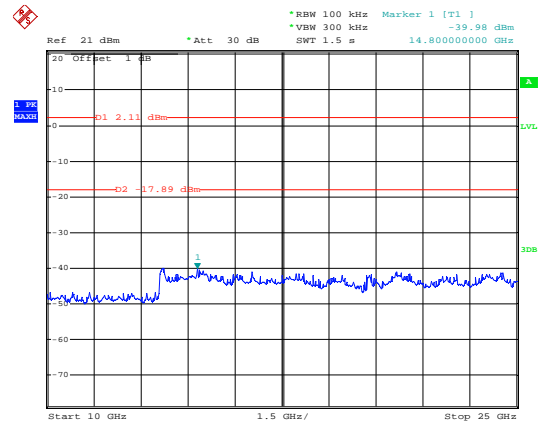
10GHz~25GHz

Middle channel



Date: 27.FEB.2012 06:01:32

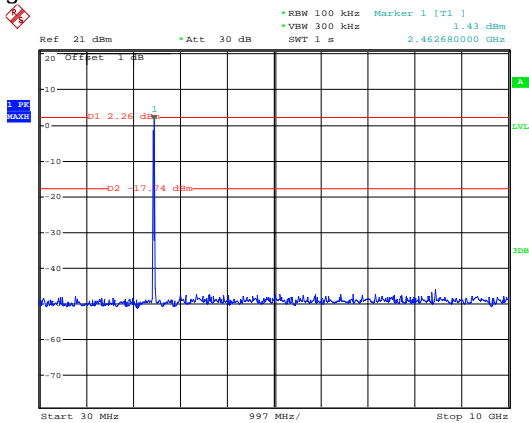
30MHz~10GHz



Date: 27.FEB.2012 06:01:51

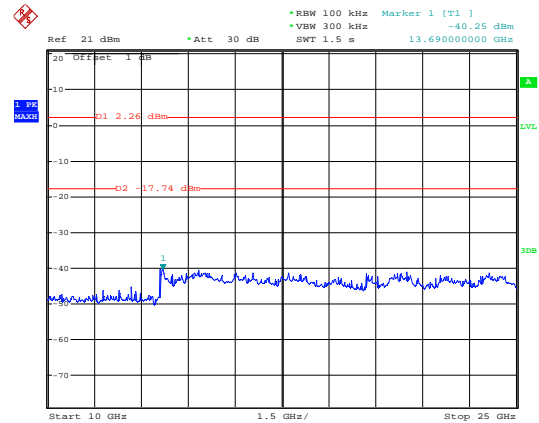
10GHz~25GHz

Highest channel



Date: 27.FEB.2012 06:07:51

30MHz~10GHz

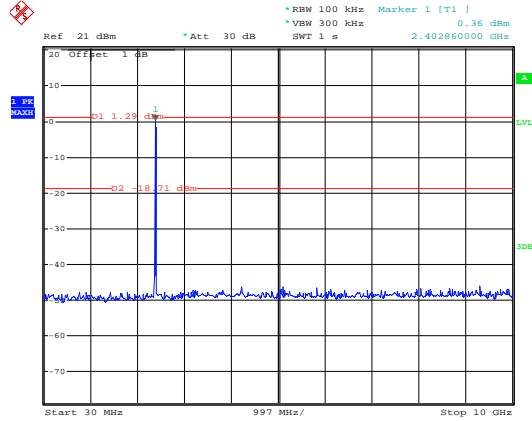


Date: 27.FEB.2012 06:08:10

10GHz~25GHz

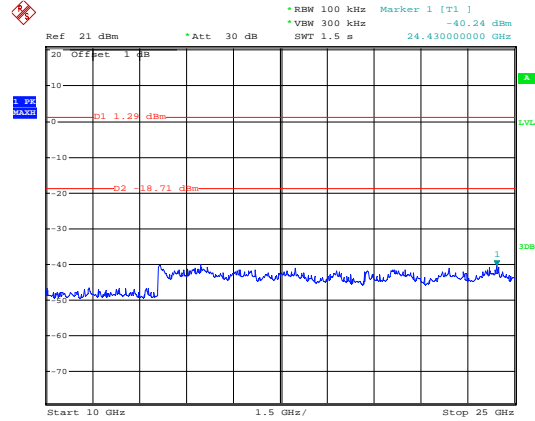
Test mode: 802.11n(H20)

Lowest channel



Date: 27.FEB.2012 06:14:53

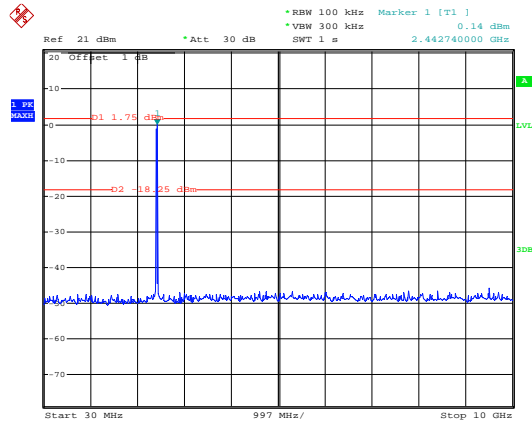
30MHz~10GHz



Date: 27.FEB.2012 06:15:14

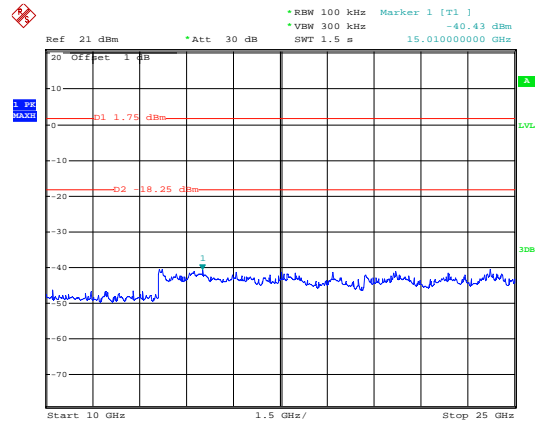
10GHz~25GHz

Middle channel



Date: 27.FEB.2012 06:22:09

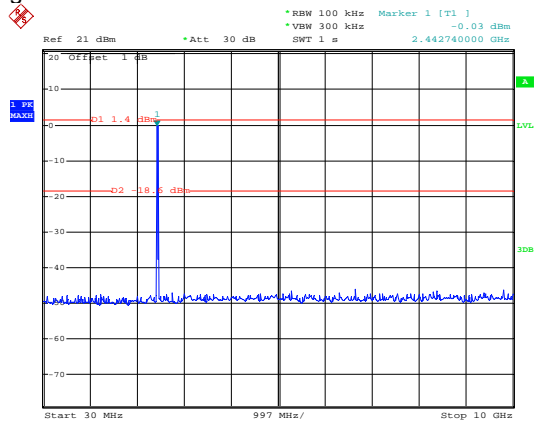
30MHz~10GHz



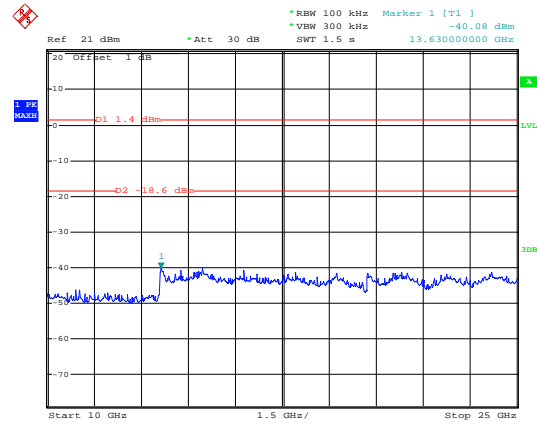
Date: 27.FEB.2012 06:22:29

10GHz~25GHz

Highest channel



Date: 27.FEB.2012 06:27:17



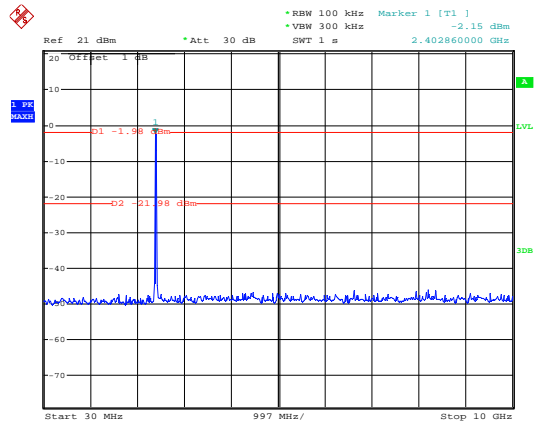
Date: 27.FEB.2012 06:27:36

30MHz~10GHz

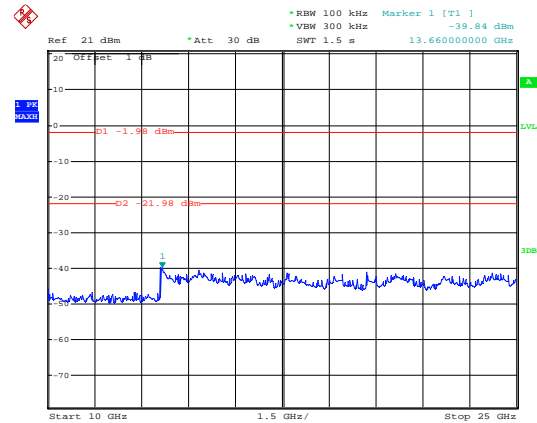
10GHz~25GHz

Test mode:	802.11n(H40)
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Lowest channel



Date: 27.FEB.2012 06:34:08

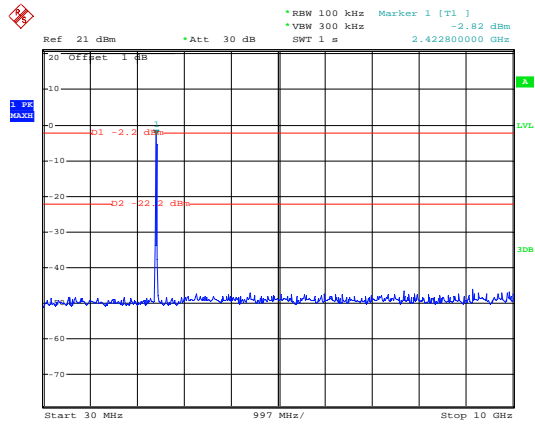


Date: 27.FEB.2012 06:34:23

30MHz~10GHz

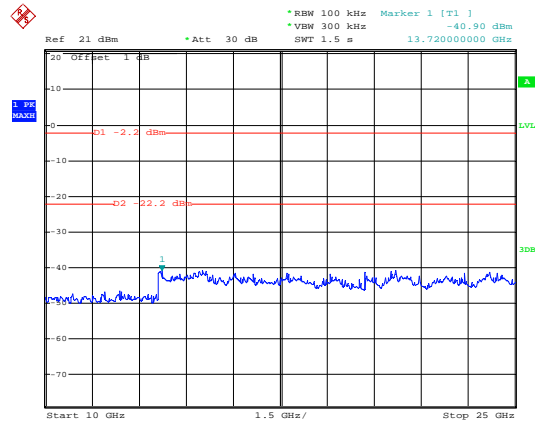
10GHz~25GHz

Middle channel



Date: 27.FEB.2012 06:39:24

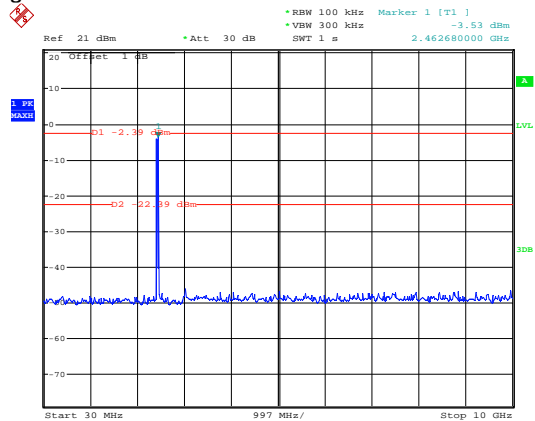
30MHz~10GHz



Date: 27.FEB.2012 06:39:37

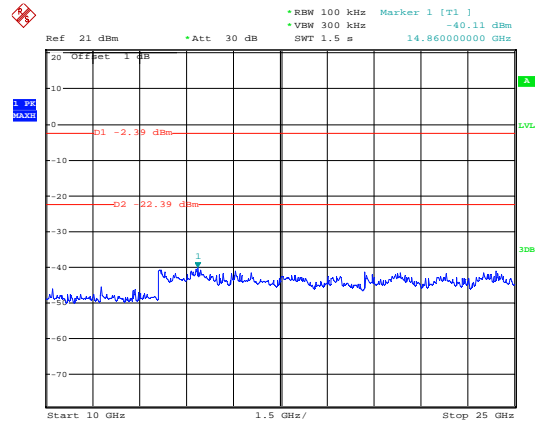
10GHz~25GHz

Highest channel



Date: 27.FEB.2012 06:43:21

30MHz~10GHz



Date: 27.FEB.2012 06:43:35

10GHz~25GHz

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		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	
	Above 1GHz	54.0		Average Value	
74.0		Peak Value			
Test setup:	Below 1GHz				
Test setup:	Above 1GHz				

Test Procedure:	<ol style="list-style-type: none"> 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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 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
34.52	44.05	13.08	0.62	26.46	31.29	40.00	-8.71	Vertical
84.11	45.17	10.33	1.00	26.32	30.18	40.00	-9.82	Vertical
166.65	47.65	8.72	1.61	26.05	31.93	43.50	-11.57	Vertical
364.26	44.87	13.19	2.20	26.23	34.03	46.00	-11.97	Vertical
729.36	42.69	18.09	3.01	27.07	36.72	46.00	-9.28	Vertical
962.16	37.90	20.01	3.43	26.42	34.92	54.00	-19.08	Vertical
40.28	40.90	11.17	0.64	26.44	26.27	40.00	-13.73	Horizontal
99.88	44.17	10.93	1.15	26.34	29.91	43.50	-13.59	Horizontal
166.65	49.86	10.18	1.61	26.05	35.60	43.50	-7.90	Horizontal
364.26	49.58	13.62	2.20	26.23	39.17	46.00	-6.83	Horizontal
729.36	37.62	21.96	3.01	27.07	35.52	46.00	-10.48	Horizontal
962.16	37.50	21.51	3.43	26.42	36.02	54.00	-17.98	Horizontal

■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

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	36.83	31.79	5.34	24.07	49.89	74.00	-24.11	Vertical
7236.00	33.41	36.19	6.88	26.44	50.04	74.00	-23.96	Vertical
9648.00	27.12	38.07	8.96	25.36	48.79	74.00	-25.21	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.60	31.79	5.34	24.07	48.66	74.00	-25.34	Horizontal
7236.00	32.17	36.19	6.88	26.44	48.80	74.00	-25.20	Horizontal
9648.00	25.91	38.07	8.96	25.36	47.58	74.00	-26.42	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

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	28.52	31.79	5.34	24.07	41.58	54.00	-12.42	Vertical
7236.00	25.25	36.19	6.88	26.44	41.88	54.00	-12.12	Vertical
9648.00	18.91	38.07	8.96	25.36	40.58	54.00	-13.42	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.29	31.79	5.34	24.07	40.35	54.00	-13.65	Horizontal
7236.00	24.01	36.19	6.88	26.44	40.64	54.00	-13.36	Horizontal
9648.00	17.70	38.07	8.96	25.36	39.37	54.00	-14.63	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11b	Test channel:	Middle
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Peak value:

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	35.88	31.85	5.40	24.01	49.12	74.00	-24.88	Vertical
7311.00	34.18	36.37	6.90	26.58	50.87	74.00	-23.13	Vertical
9748.00	29.05	38.27	9.00	25.30	51.02	74.00	-22.98	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	34.66	31.85	5.40	24.01	47.90	74.00	-26.10	Horizontal
7311.00	32.96	36.37	6.90	26.58	49.65	74.00	-24.35	Horizontal
9748.00	27.83	38.27	9.00	25.30	49.80	74.00	-24.20	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

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	27.65	31.85	5.40	24.01	40.89	54.00	-13.11	Vertical
7311.00	26.03	36.37	6.90	26.58	42.72	54.00	-11.28	Vertical
9748.00	20.72	38.27	9.00	25.30	42.69	54.00	-11.31	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	26.43	31.85	5.40	24.01	39.67	54.00	-14.33	Horizontal
7311.00	24.81	36.37	6.90	26.58	41.50	54.00	-12.50	Horizontal
9748.00	19.50	38.27	9.00	25.30	41.47	54.00	-12.53	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11b	Test channel:	Highest
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Peak value:

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	34.35	31.89	5.46	23.96	47.74	74.00	-26.26	Vertical
7386.00	33.18	36.49	6.93	26.79	49.81	74.00	-24.19	Vertical
9848.00	29.44	38.62	9.05	25.26	51.85	74.00	-22.15	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	33.14	31.89	5.46	23.96	46.53	74.00	-27.47	Horizontal
7386.00	31.95	36.49	6.93	26.79	48.58	74.00	-25.42	Horizontal
9848.00	28.23	38.62	9.05	25.26	50.64	74.00	-23.36	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

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	26.13	31.89	5.46	23.96	39.52	54.00	-14.48	Vertical
7386.00	25.04	36.49	6.93	26.79	41.67	54.00	-12.33	Vertical
9848.00	21.25	38.62	9.05	25.26	43.66	54.00	-10.34	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.92	31.89	5.46	23.96	38.31	54.00	-15.69	Horizontal
7386.00	23.81	36.49	6.93	26.79	40.44	54.00	-13.56	Horizontal
9848.00	20.04	38.62	9.05	25.26	42.45	54.00	-11.55	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	lowest
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Peak value:

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	36.41	31.79	5.34	24.07	49.47	74.00	-24.53	Vertical
7236.00	33.29	36.19	6.88	26.44	49.92	74.00	-24.08	Vertical
9648.00	26.94	38.07	8.96	25.36	48.61	74.00	-25.39	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.36	31.79	5.34	24.07	48.42	74.00	-25.58	Horizontal
7236.00	31.75	36.19	6.88	26.44	48.38	74.00	-25.62	Horizontal
9648.00	25.79	38.07	8.96	25.36	47.46	74.00	-26.54	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

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	28.27	31.79	5.34	24.07	41.33	54.00	-12.67	Vertical
7236.00	25.07	36.19	6.88	26.44	41.70	54.00	-12.30	Vertical
9648.00	18.70	38.07	8.96	25.36	40.37	54.00	-13.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.95	31.79	5.34	24.07	40.01	54.00	-13.99	Horizontal
7236.00	23.76	36.19	6.88	26.44	40.39	54.00	-13.61	Horizontal
9648.00	17.52	38.07	8.96	25.36	39.19	54.00	-14.81	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	Middle
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Peak value:

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	35.67	31.85	5.40	24.01	48.91	74.00	-25.09	Vertical
7311.00	33.94	36.37	6.90	26.58	50.63	74.00	-23.37	Vertical
9748.00	28.71	38.27	9.00	25.30	50.68	74.00	-23.32	Vertical
12185.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	34.48	31.85	5.40	24.01	47.72	74.00	-26.28	Horizontal
7311.00	32.75	36.37	6.90	26.58	49.44	74.00	-24.56	Horizontal
9748.00	27.59	38.27	9.00	25.30	49.56	74.00	-24.44	Horizontal
12185.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

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	27.39	31.85	5.40	24.01	40.63	54.00	-13.37	Vertical
7311.00	25.83	36.37	6.90	26.58	42.52	54.00	-11.48	Vertical
9748.00	20.49	38.27	9.00	25.30	42.46	54.00	-11.54	Vertical
12185.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	26.25	31.85	5.40	24.01	39.49	54.00	-14.51	Horizontal
7311.00	24.55	36.37	6.90	26.58	41.24	54.00	-12.76	Horizontal
9748.00	19.30	38.27	9.00	25.30	41.27	54.00	-12.73	Horizontal
12185.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	Highest
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Peak value:

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	34.12	31.89	5.46	23.96	47.51	74.00	-26.49	Vertical
7386.00	33.02	36.49	6.93	26.79	49.65	74.00	-24.35	Vertical
9848.00	29.26	38.62	9.05	25.26	51.67	74.00	-22.33	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	32.94	31.89	5.46	23.96	46.33	74.00	-27.67	Horizontal
7386.00	31.72	36.49	6.93	26.79	48.35	74.00	-25.65	Horizontal
9848.00	28.07	38.62	9.05	25.26	50.48	74.00	-23.52	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

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	25.89	31.89	5.46	23.96	39.28	54.00	-14.72	Vertical
7386.00	24.62	36.49	6.93	26.79	41.25	54.00	-12.75	Vertical
9848.00	21.13	38.62	9.05	25.26	43.54	54.00	-10.46	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.68	31.89	5.46	23.96	38.07	54.00	-15.93	Horizontal
7386.00	23.57	36.49	6.93	26.79	40.20	54.00	-13.80	Horizontal
9848.00	19.62	38.62	9.05	25.26	42.03	54.00	-11.97	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11n(H20)	Test channel:	Lowest
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Peak value:

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	36.28	31.79	5.34	24.07	49.34	74.00	-24.66	Vertical
7236.00	32.77	36.19	6.88	26.44	49.40	74.00	-24.60	Vertical
9648.00	26.67	38.07	8.96	25.36	48.34	74.00	-25.66	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.05	31.79	5.34	24.07	48.11	74.00	-25.89	Horizontal
7236.00	31.53	36.19	6.88	26.44	48.16	74.00	-25.84	Horizontal
9648.00	25.46	38.07	8.96	25.36	47.13	74.00	-26.87	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

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	27.97	31.79	5.34	24.07	41.03	54.00	-12.97	Vertical
7236.00	24.61	36.19	6.88	26.44	41.24	54.00	-12.76	Vertical
9648.00	18.46	38.07	8.96	25.36	40.13	54.00	-13.87	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.74	31.79	5.34	24.07	39.80	54.00	-14.20	Horizontal
7236.00	23.37	36.19	6.88	26.44	40.00	54.00	-14.00	Horizontal
9648.00	17.25	38.07	8.96	25.36	38.92	54.00	-15.08	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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.

Test mode:	802.11n(H20)	Test channel:	Middle
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Peak value:

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	35.32	31.85	5.40	24.01	48.56	74.00	-25.44	Vertical
7311.00	33.64	36.37	6.90	26.58	50.33	74.00	-23.67	Vertical
9748.00	28.57	38.27	9.00	25.30	50.54	74.00	-23.46	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	34.10	31.85	5.40	24.01	47.34	74.00	-26.66	Horizontal
7311.00	32.42	36.37	6.90	26.58	49.11	74.00	-24.89	Horizontal
9748.00	27.35	38.27	9.00	25.30	49.32	74.00	-24.68	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

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	27.09	31.85	5.40	24.01	40.33	54.00	-13.67	Vertical
7311.00	25.49	36.37	6.90	26.58	42.18	54.00	-11.82	Vertical
9748.00	20.24	38.27	9.00	25.30	42.21	54.00	-11.79	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	25.87	31.85	5.40	24.01	39.11	54.00	-14.89	Horizontal
7311.00	24.27	36.37	6.90	26.58	40.96	54.00	-13.04	Horizontal
9748.00	19.02	38.27	9.00	25.30	40.99	54.00	-13.01	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(H20)	Test channel:	Highest
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Peak value:

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	33.70	31.89	5.46	23.96	47.09	74.00	-26.91	Vertical
7386.00	32.72	36.49	6.93	26.79	49.35	74.00	-24.65	Vertical
9848.00	29.07	38.62	9.05	25.26	51.48	74.00	-22.52	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	32.49	31.89	5.46	23.96	45.88	74.00	-28.12	Horizontal
7386.00	31.49	36.49	6.93	26.79	48.12	74.00	-25.88	Horizontal
9848.00	27.86	38.62	9.05	25.26	50.27	74.00	-23.73	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

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	25.48	31.89	5.46	23.96	38.87	54.00	-15.13	Vertical
7386.00	24.58	36.49	6.93	26.79	41.21	54.00	-12.79	Vertical
9848.00	20.88	38.62	9.05	25.26	43.29	54.00	-10.71	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.27	31.89	5.46	23.96	37.66	54.00	-16.34	Horizontal
7386.00	23.35	36.49	6.93	26.79	39.98	54.00	-14.02	Horizontal
9848.00	19.67	38.62	9.05	25.26	42.08	54.00	-11.92	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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.

Test mode:	802.11n(H40)	Test channel:	Lowest
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Peak value:

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	33.76	31.82	5.36	24.05	46.89	74.00	-27.11	Vertical
7266.00	33.99	36.28	6.89	26.47	50.69	74.00	-23.31	Vertical
9688.00	27.35	38.13	8.98	25.34	49.12	74.00	-24.88	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	32.52	31.82	5.36	24.05	45.65	74.00	-28.35	Horizontal
7266.00	32.74	36.28	6.89	26.47	49.44	74.00	-24.56	Horizontal
9688.00	26.11	38.13	8.98	25.34	47.88	74.00	-26.12	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

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	25.61	31.82	5.36	24.05	38.74	54.00	-15.26	Vertical
7266.00	25.74	36.28	6.89	26.47	42.44	54.00	-11.56	Vertical
9688.00	19.01	38.13	8.98	25.34	40.78	54.00	-13.22	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	24.37	31.82	5.36	24.05	37.50	54.00	-16.50	Horizontal
7266.00	24.49	36.28	6.89	26.47	41.19	54.00	-12.81	Horizontal
9688.00	17.77	38.13	8.98	25.34	39.54	54.00	-14.46	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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.

Test mode:	802.11n(H40)	Test channel:	Middle
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Peak value:

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	34.66	31.85	5.40	24.01	47.90	74.00	-26.10	Vertical
7311.00	34.22	36.37	6.90	26.58	50.91	74.00	-23.09	Vertical
9748.00	28.21	38.27	9.00	25.30	50.18	74.00	-23.82	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	33.44	31.85	5.40	24.01	46.68	74.00	-27.32	Horizontal
7311.00	33.01	36.37	6.90	26.58	49.70	74.00	-24.30	Horizontal
9748.00	27.06	38.27	9.00	25.30	49.03	74.00	-24.97	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

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	26.40	31.85	5.40	24.01	39.64	54.00	-14.36	Vertical
7311.00	25.98	36.37	6.90	26.58	42.67	54.00	-11.33	Vertical
9748.00	19.92	38.27	9.00	25.30	41.89	54.00	-12.11	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	25.18	31.85	5.40	24.01	38.42	54.00	-15.58	Horizontal
7311.00	24.77	36.37	6.90	26.58	41.46	54.00	-12.54	Horizontal
9748.00	18.77	38.27	9.00	25.30	40.74	54.00	-13.26	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11n(H40)	Test channel:	Highest
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Peak value:

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	32.95	31.88	5.44	23.97	46.30	74.00	-27.70	Vertical
7356.00	33.27	36.45	6.91	26.70	49.93	74.00	-24.07	Vertical
9808.00	28.81	38.52	9.03	25.27	51.09	74.00	-22.91	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	31.72	31.88	5.44	23.97	45.07	74.00	-28.93	Horizontal
7356.00	32.04	36.45	6.91	26.70	48.70	74.00	-25.30	Horizontal
9808.00	27.65	38.52	9.03	25.27	49.93	74.00	-24.07	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

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	24.72	31.88	5.44	23.97	38.07	54.00	-15.93	Vertical
7356.00	24.72	36.45	6.91	26.70	41.38	54.00	-12.62	Vertical
9808.00	20.32	38.52	9.03	25.27	42.60	54.00	-11.40	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	23.49	31.88	5.44	23.97	36.84	54.00	-17.16	Horizontal
7356.00	23.49	36.45	6.91	26.70	40.15	54.00	-13.85	Horizontal
9808.00	19.16	38.52	9.03	25.27	41.44	54.00	-12.56	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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.