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Report No.: FCC11-RTE070503  
Page 1 of 64

# **FCC REPORT (WIFI)**

**Applicant:** XPX Technology Limited

**Address of Applicant:** Flat B8 F8, Kin Tak Fung Ind Bldg, 174 Wai Yip St,  
Kwun Tong Kowloon, HongKong.

**Equipment Under Test (EUT)**

Product Name: mobile phone

Model No.: X85

Trade mark: XPX mobile phone

**FCC ID:** ZO6FCCX85001

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

**Date of sample receipt:** 16 Jun., 2011

**Date of Test:** 17-30 Jun., 2011

**Date of report issued:** 05 Jul., 2011

**Test Result :** PASS \*

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

Authorized Signature:

Kevin Yu  
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 EBO 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	2011-07-05	Original

Prepared By:

*Collin He*

Date:

2011-07-05

Project Engineer

Check By:

*Hans. Hu*

Date:

2011-07-05

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

*Remark:*

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



## 5 General Information

### 5.1 Client Information

Applicant:	XPX Technology Limited
Address of Applicant:	Flat B8 F8, Kin Tak Fung Ind Bldg, 174 Wai Yip St, Kwun Tong Kowloon, HongKong.
Manufacturer/Factory:	Yuanfenn Industrial Dalang Lonhua
Address of Manufacturer/Factory:	4&5 FL Area B, Yuanfenn Industrial Zone, Dalang Lonhua

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

Product Name:	mobile phone
Model No.:	X85
Operation Frequency:	2412MHz~2462MHz
Channel numbers:	11
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:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Input: AC 90-240V 50/60Hz 0.2A Output: DC 5V 500mA



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

Note:

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

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



### 5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in operating status with full load

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

#### 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)

### 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 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

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## 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	Sept. 10 2010	Sept. 09 2011
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	Aug. 03 2010	Aug. 02 2011
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Aug. 03 2010	Aug. 02 2011
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	Aug. 03 2010	Aug. 02 2011
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Aug. 03 2010	Aug. 02 2011
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Aug. 03 2010	Aug. 02 2011
15	Band filter	Amindeon	82346	GTS219	Aug. 03 2010	Aug. 02 2011

### Conducted Emission:

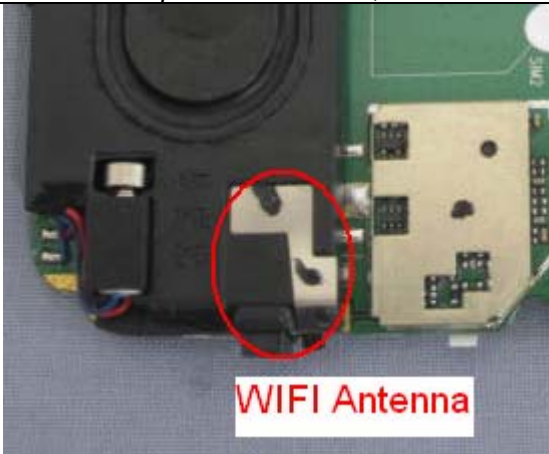
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS206	Apr. 10 2011	Apr. 10 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Sept. 14 2010	Sept. 14 2011
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	Sept. 14 2010	Sept. 14 2011
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2011	Apr. 14 2012
5	Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2011	Apr. 01 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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## 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> 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><i>15.247(c) (1)(i) requirement:</i> (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<b>E.U.T Antenna:</b>	
The antenna port is an inverted, unconventional port; the best case gain of the antenna is 2.0dBi.	
 <p>WIFI Antenna</p>	



## 6.2 Conducted Emissions

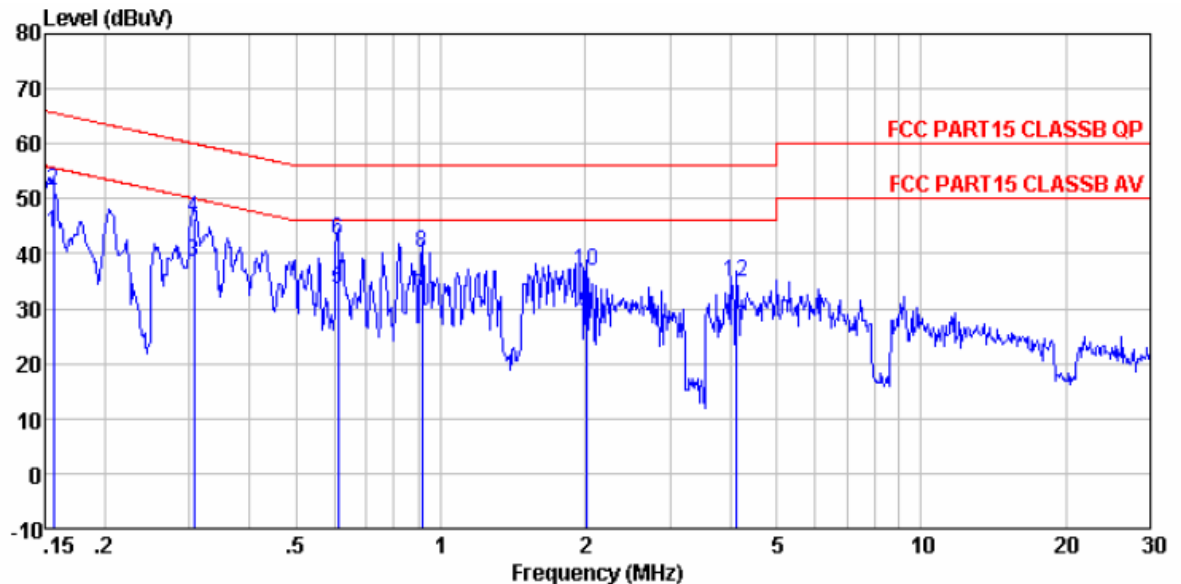
Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4: 2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz														
Limit:	<table><thead><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr></thead><tbody><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></tbody></table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.														
Test setup:	<div><p style="text-align: center;"><b>Reference Plane</b></p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p></div>														
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Live Line:

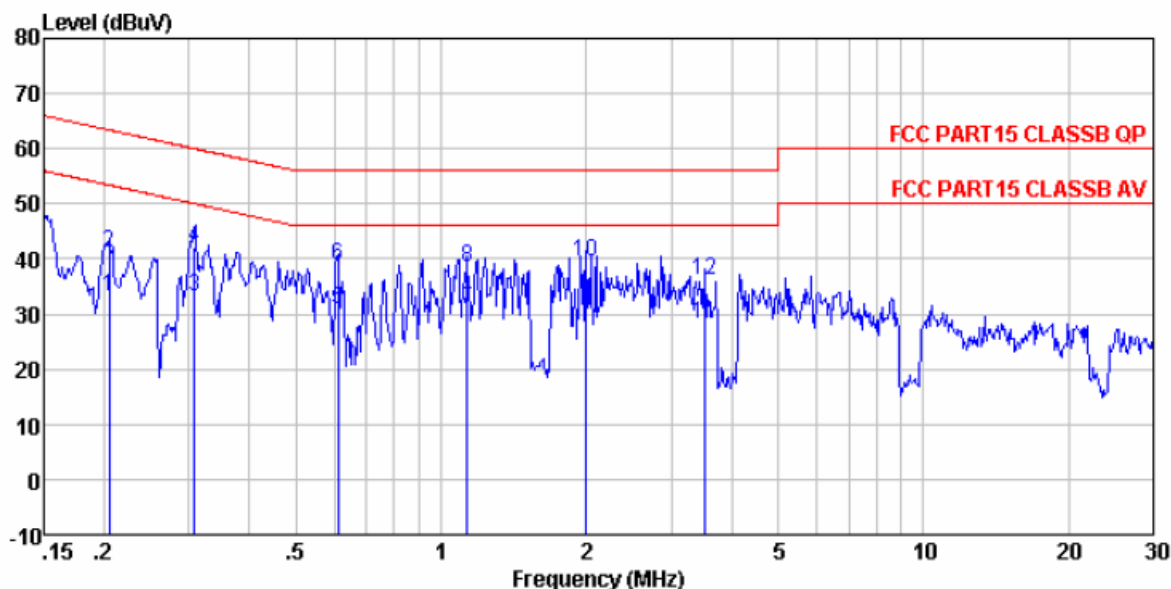


Condition : FCC PART15 CLASSB QP LISN(2011) LINE  
Job No. : 489RF  
Test Mode : WIFI mode  
Test Engineer: Dick

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	42.89	0.68	0.10	43.67	55.65	-11.98	Average
2	0.156	50.60	0.68	0.10	51.38	65.65	-14.27	QP
3	0.307	37.94	0.61	0.10	38.65	50.06	-11.41	Average
4	0.307	45.68	0.61	0.10	46.39	60.06	-13.67	QP
5	0.611	32.89	0.53	0.10	33.52	46.00	-12.48	Average
6	0.611	41.80	0.53	0.10	42.43	56.00	-13.57	QP
7	0.914	31.65	0.49	0.10	32.24	46.00	-13.76	Average
8	0.914	39.46	0.49	0.10	40.05	56.00	-15.95	QP
9	2.012	28.67	0.40	0.10	29.17	46.00	-16.83	Average
10	2.012	36.17	0.40	0.10	36.67	56.00	-19.33	QP
11	4.136	26.43	0.32	0.10	26.85	46.00	-19.15	Average
12	4.136	34.57	0.32	0.10	34.99	56.00	-21.01	QP



Neutral Line:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL  
Job No. : 489RF  
Test Mode : WIFI mode  
Test Engineer: Dick

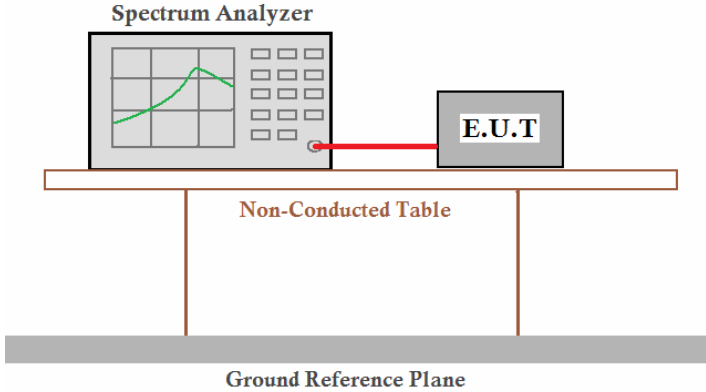
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.205	32.46	0.65	0.10	33.21	53.40	-20.19	Average
2	0.205	40.55	0.65	0.10	41.30	63.40	-22.10	QP
3	0.308	32.34	0.61	0.10	33.05	50.02	-16.97	Average
4	0.308	41.43	0.61	0.10	42.14	60.02	-17.88	QP
5	0.611	30.23	0.53	0.10	30.86	46.00	-15.14	Average
6	0.611	38.34	0.53	0.10	38.97	56.00	-17.03	QP
7	1.135	30.15	0.46	0.10	30.71	46.00	-15.29	Average
8	1.135	38.07	0.46	0.10	38.63	56.00	-17.37	QP
9	2.001	31.51	0.40	0.10	32.01	46.00	-13.99	Average
10	2.001	39.06	0.40	0.10	39.56	56.00	-16.44	QP
11	3.509	27.77	0.34	0.10	28.21	46.00	-17.79	Average
12	3.509	35.68	0.34	0.10	36.12	56.00	-19.88	QP

Notes:

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



### 6.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



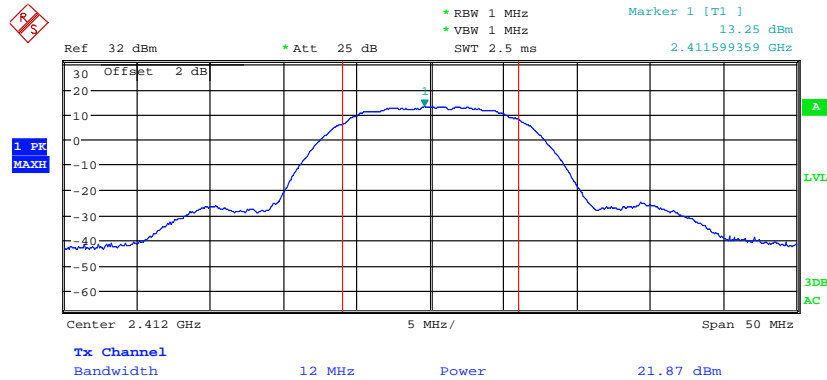
**Measurement Data**

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	21.87	30.00	Pass
Middle	22.95	30.00	Pass
Highest	22.78	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.19	30.00	Pass
Middle	21.39	30.00	Pass
Highest	22.93	30.00	Pass
802.11n-H20 mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.84	30.00	Pass
Middle	21.17	30.00	Pass
Highest	22.62	30.00	Pass

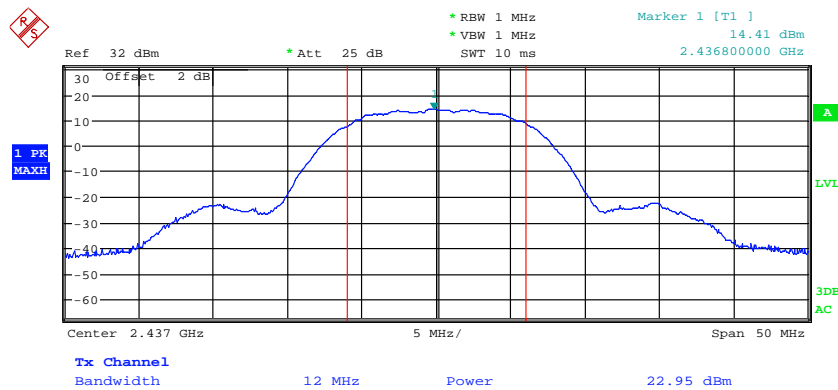
**Test plot as follows:**



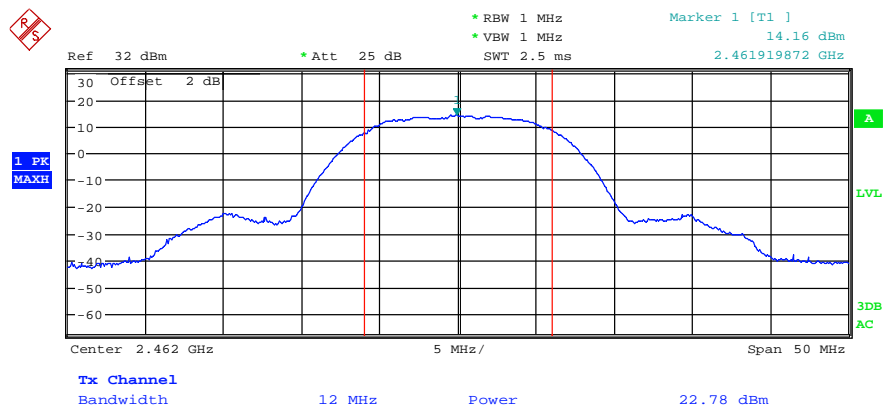
Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



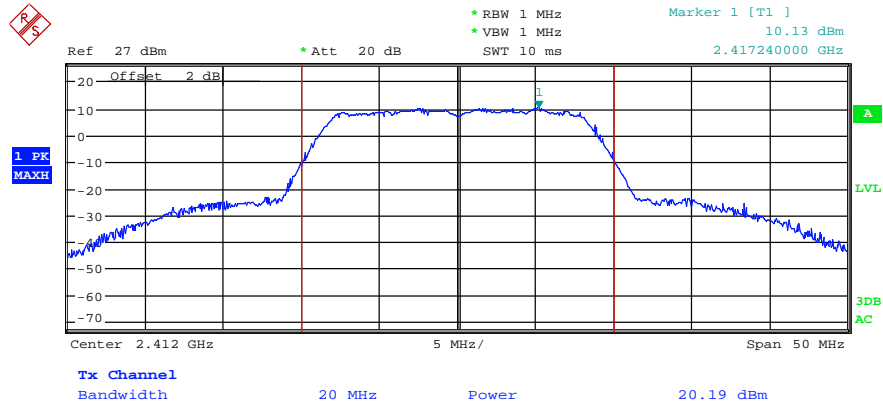
Test mode:	802.11b	Test channel:	Highest
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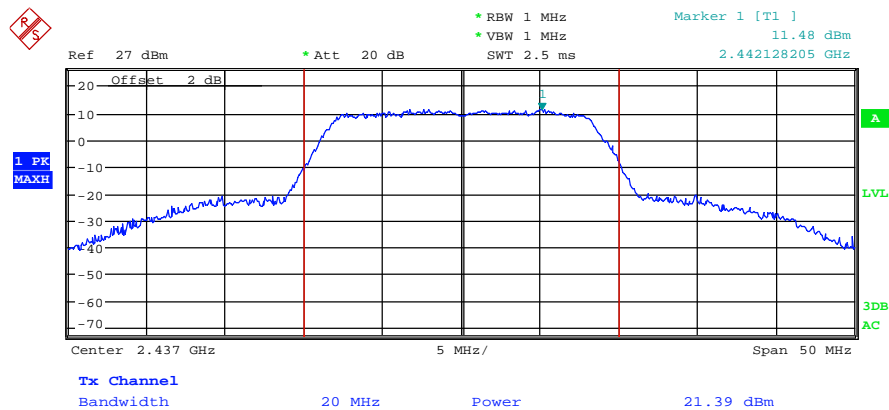
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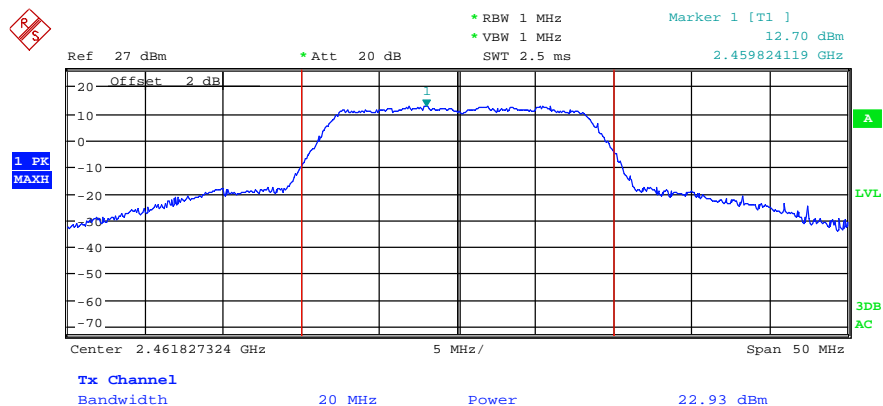
Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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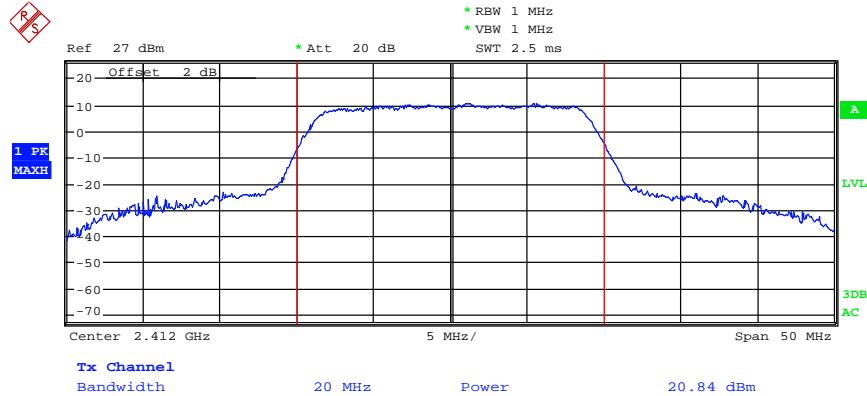


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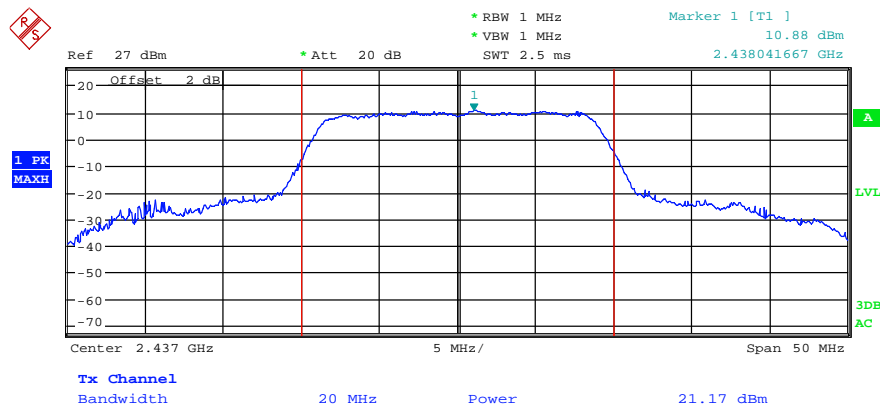




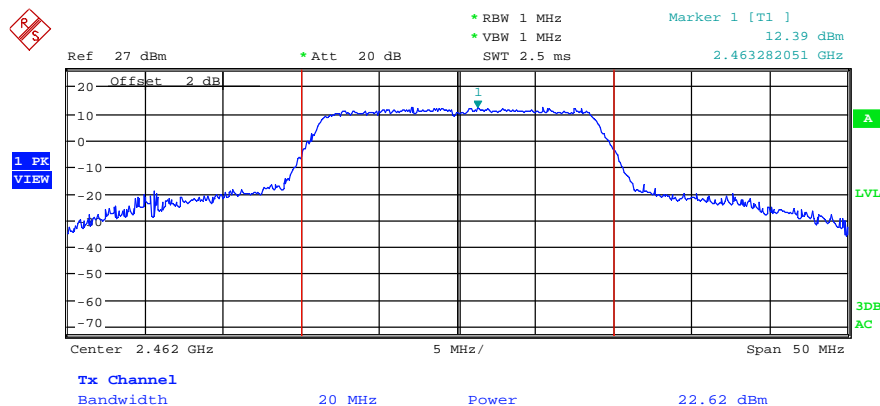
Test mode:	802.11n(H20)	Test channel:	Lowest
------------	--------------	---------------	--------



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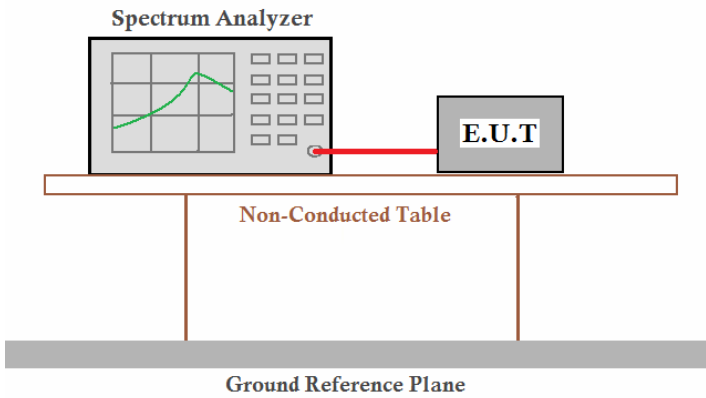


Test mode:	802.11n(H20)	Test channel:	Highest
------------	--------------	---------------	---------



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## 6.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500KHz
Test setup:	 <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 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:	Pass



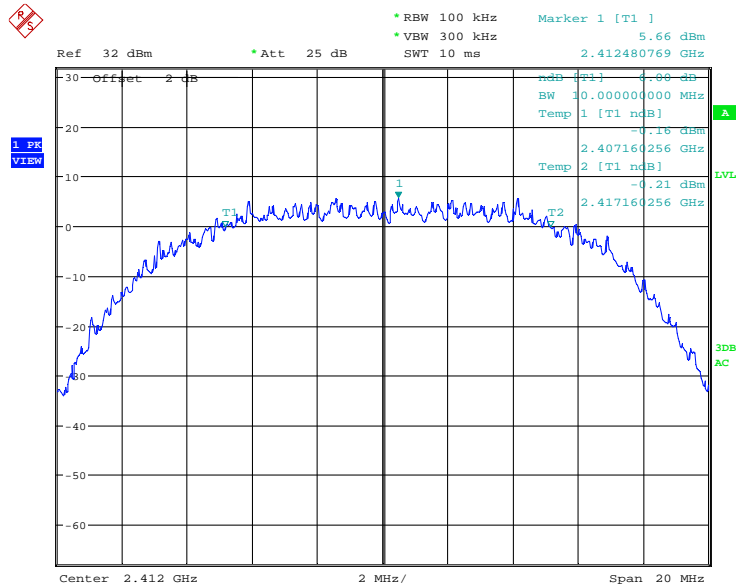
Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	10.000	>500	Pass
Middle	9.775	>500	Pass
Highest	8.846	>500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	16.474	>500	Pass
Middle	16.474	>500	Pass
Highest	16.506	>500	Pass
802.11n-H20 mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	17.660	>500	Pass
Middle	17.660	>500	Pass
Highest	17.628	>500	Pass

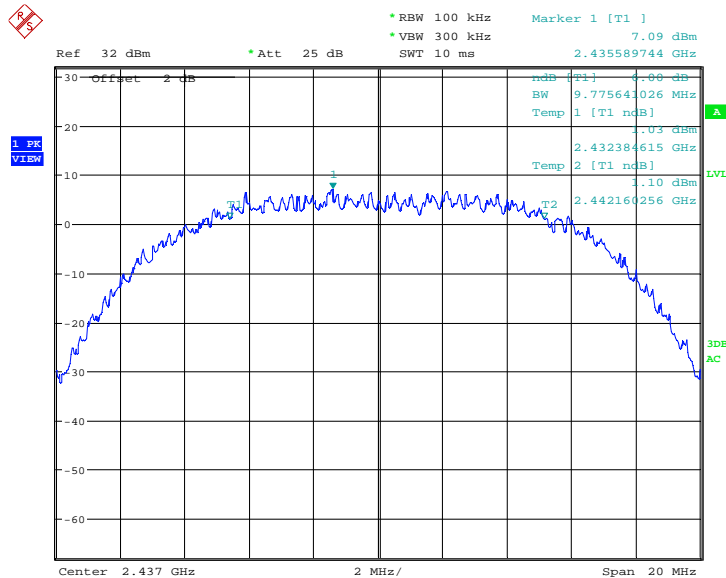
Test plot as follows:



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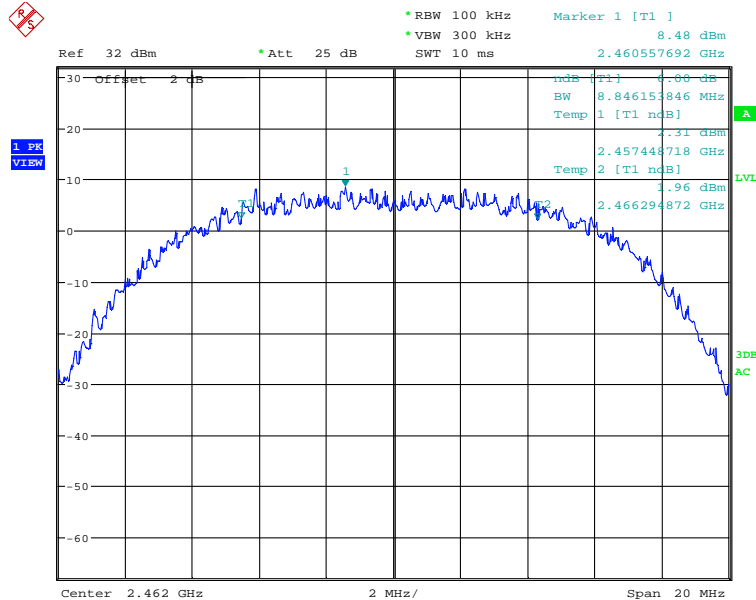


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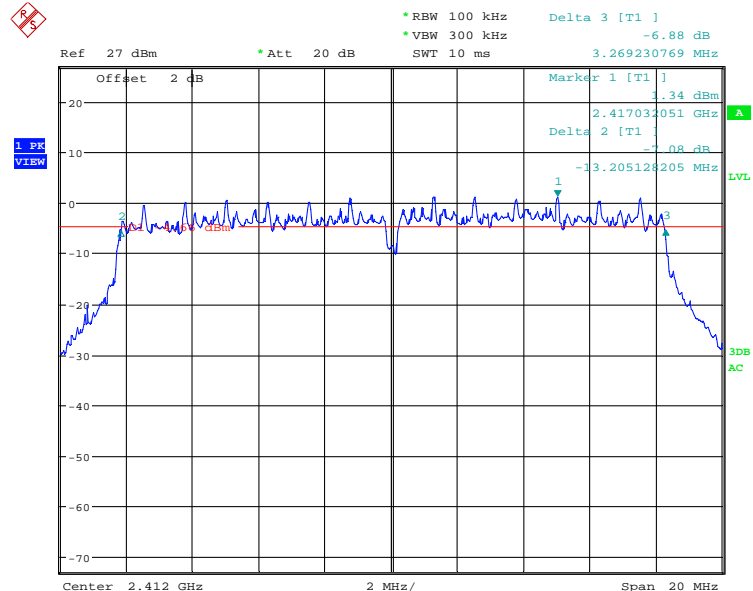
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Test mode:	802.11b	Test channel:	Highest
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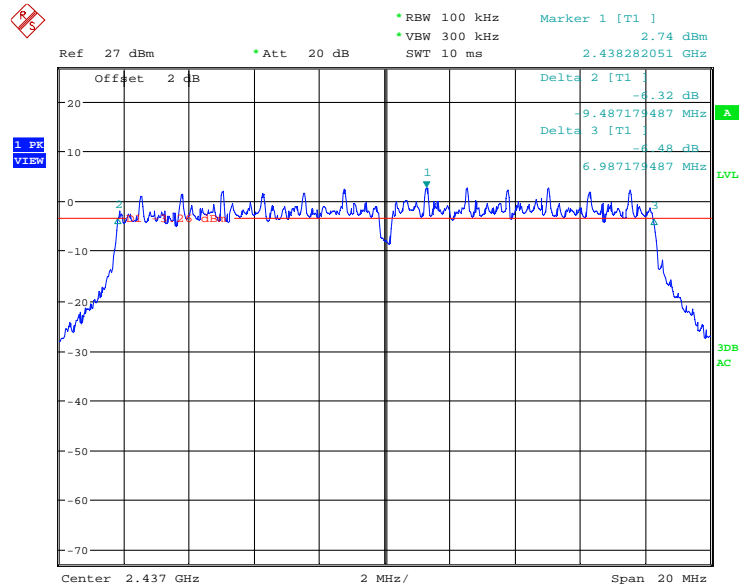


Test mode:	802.11g	Test channel:	Lowest
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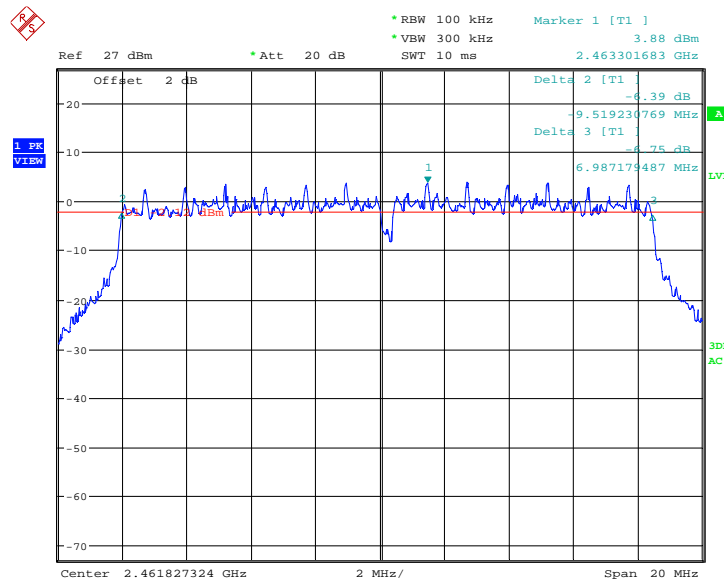


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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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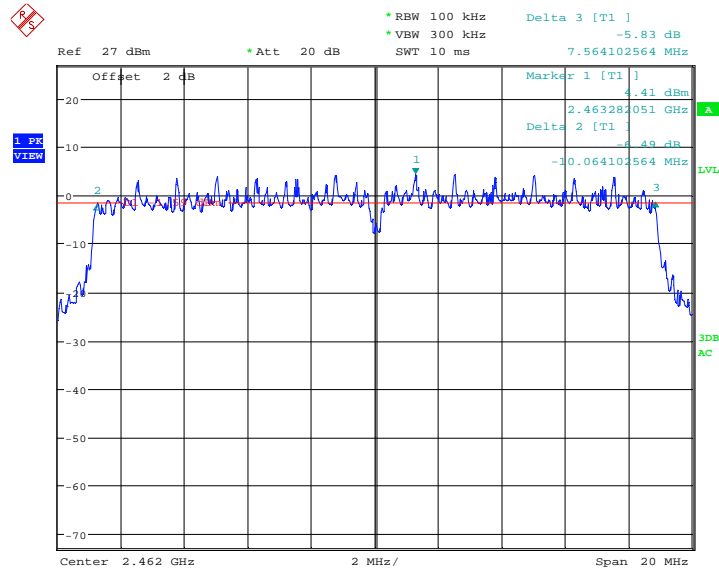


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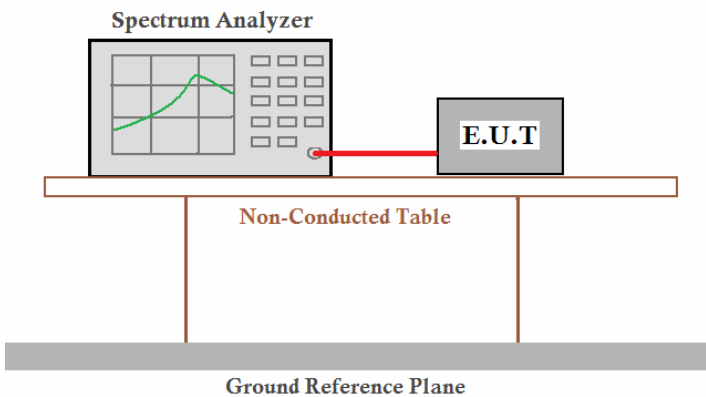
Test mode:	802.11n-H20	Test channel:	Highest
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## 6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	8dBm
Test setup:	 <p>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 two vertical legs. Below the table is 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:	Pass



**Measurement Data**

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-7.54	8.00	Pass
Middle	-6.07	8.00	Pass
Highest	-7.43	8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-14.63	8.00	Pass
Middle	-14.04	8.00	Pass
Highest	-12.03	8.00	Pass
802.11n-H20 mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-13.19	8.00	Pass
Middle	-13.46	8.00	Pass
Highest	-11.06	8.00	Pass

**Test plot as follows:**

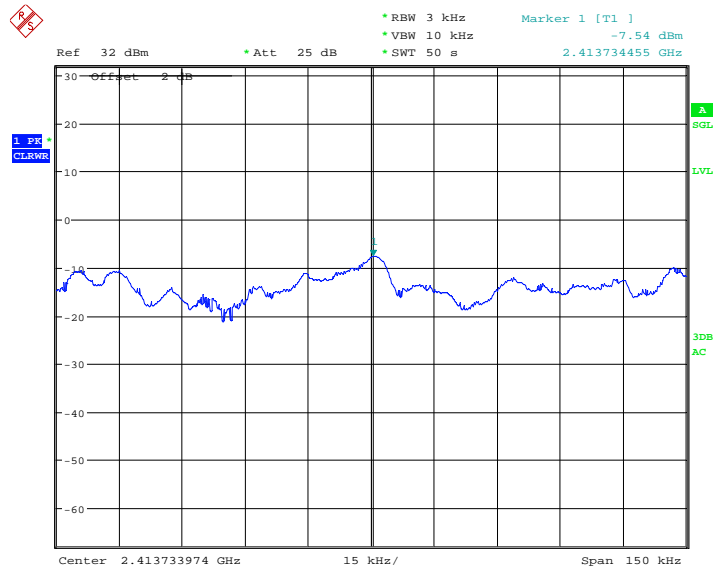


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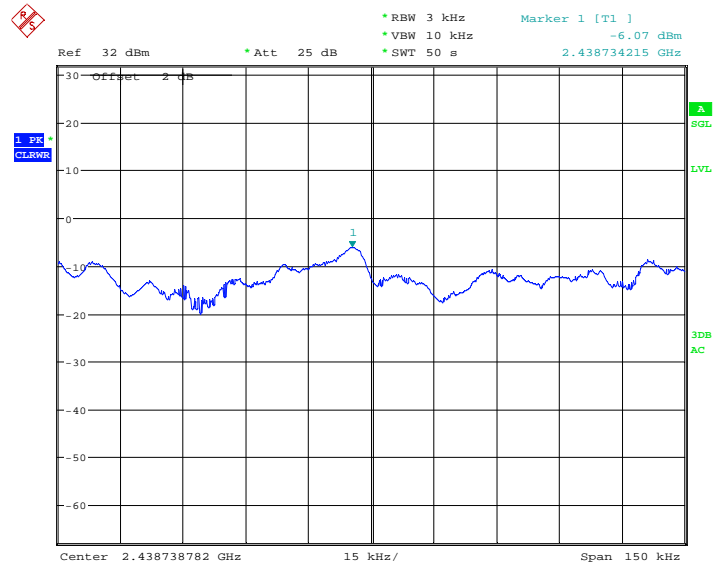
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Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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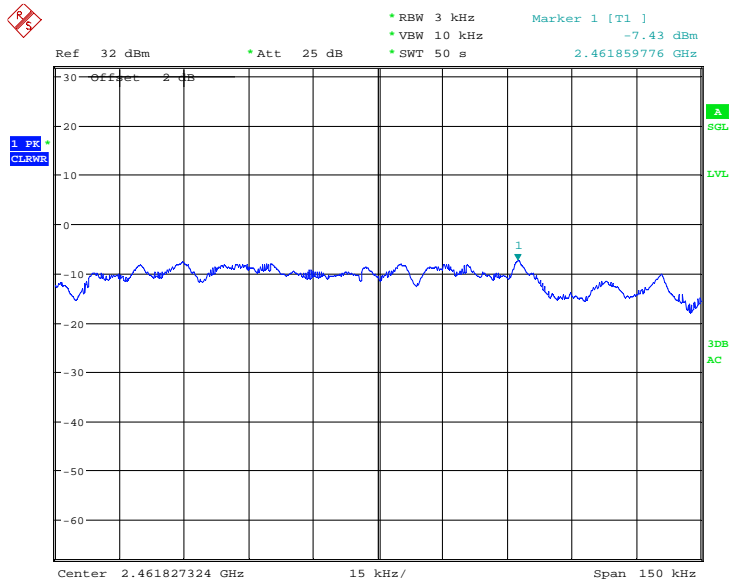


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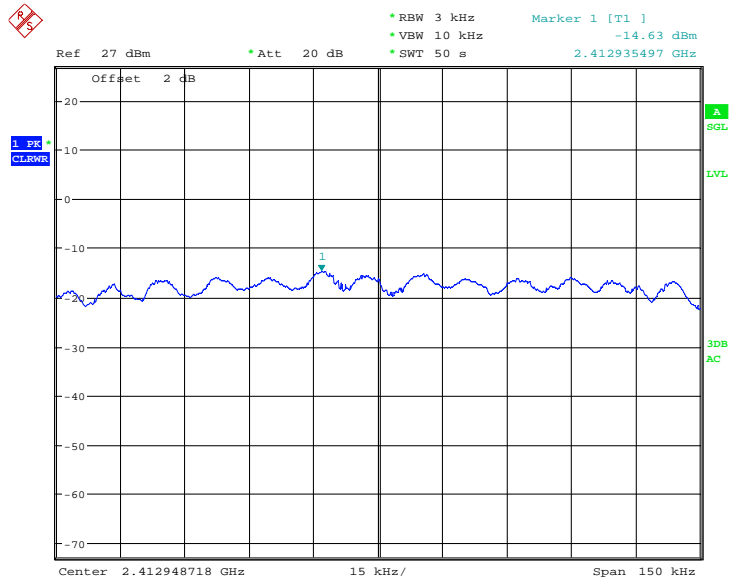
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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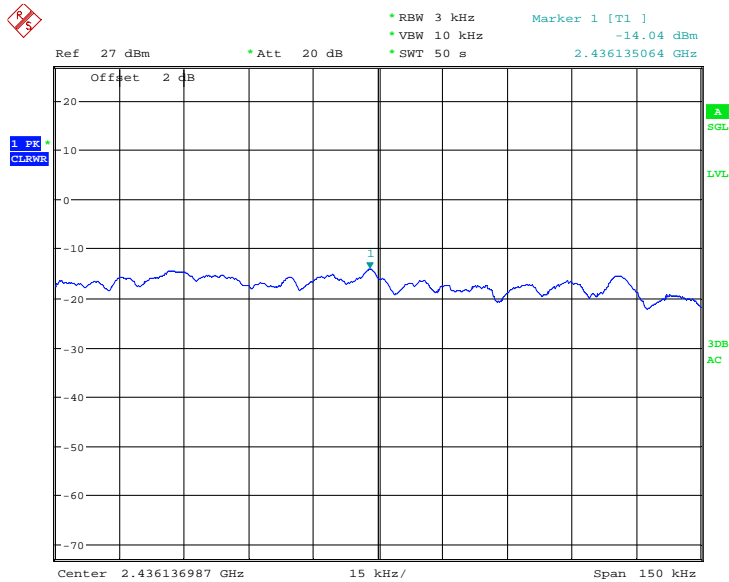


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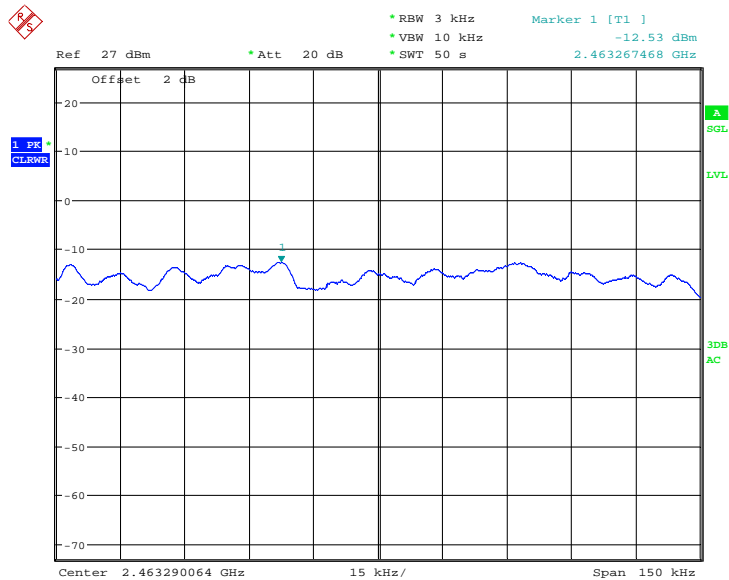
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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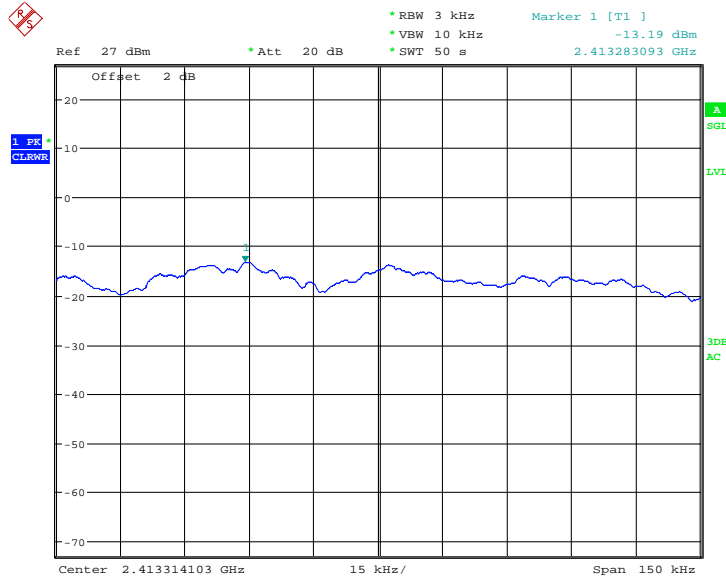


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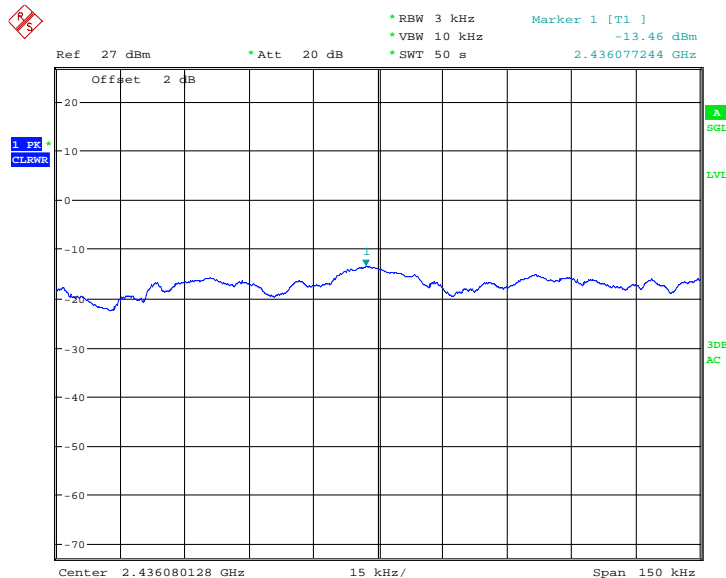
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Test mode:	802.11n-H20	Test channel:	Lowest
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Test mode:	802.11n-H20	Test channel:	Middle
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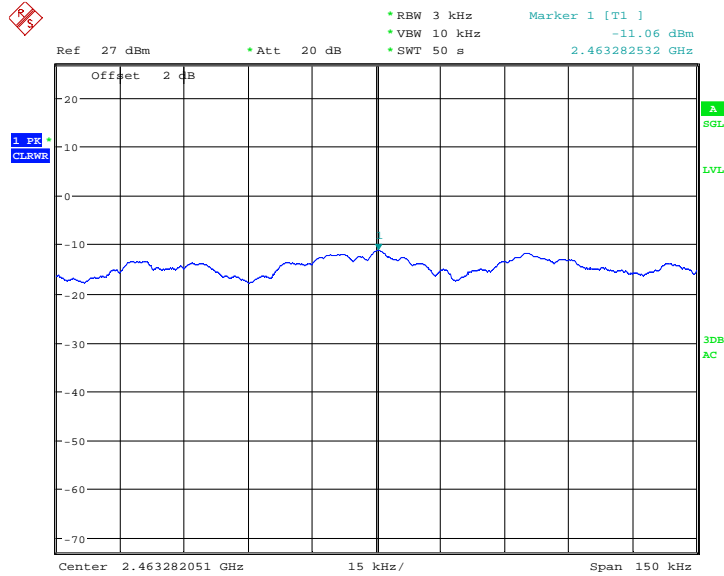
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Test mode:	802.11n-H20	Test channel:	Highest
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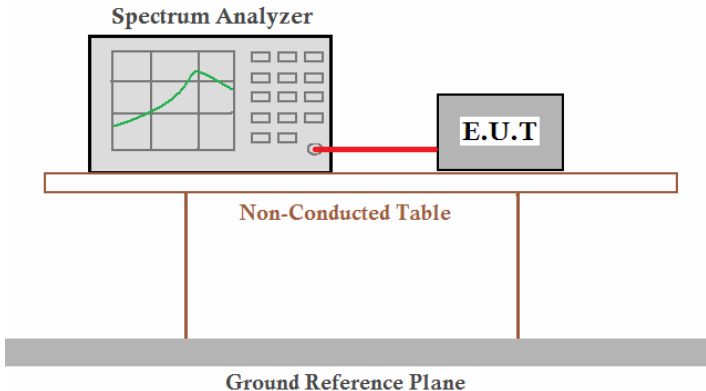


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## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:



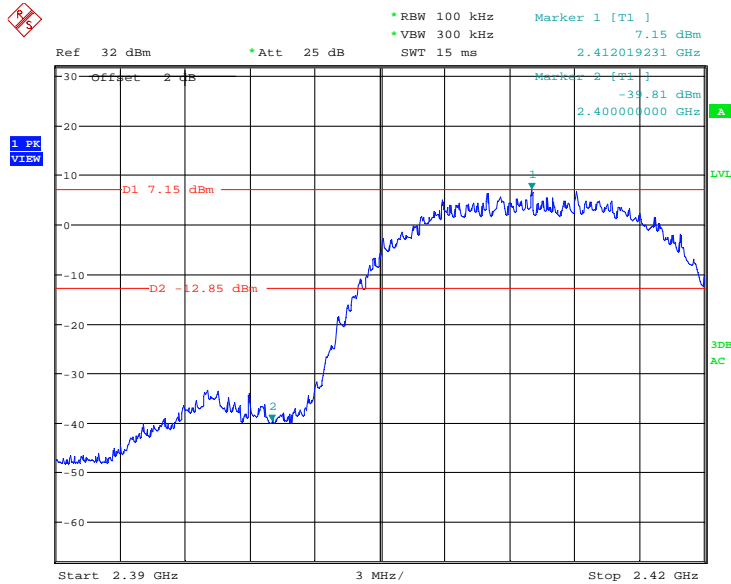


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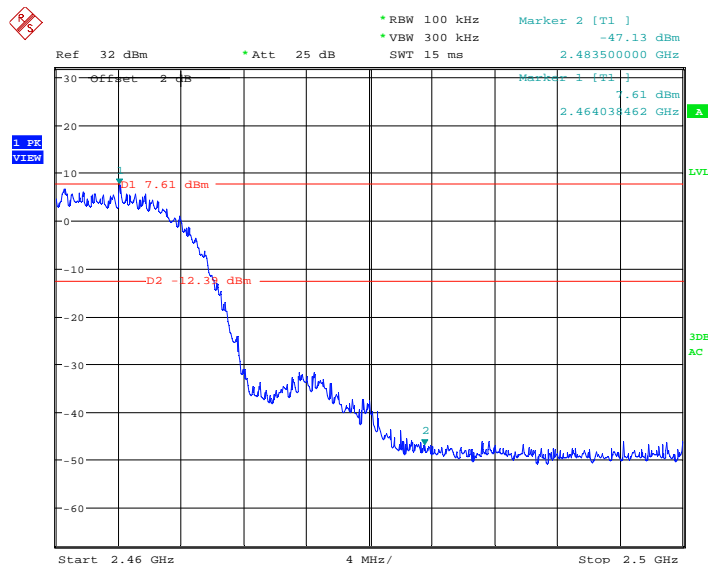
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Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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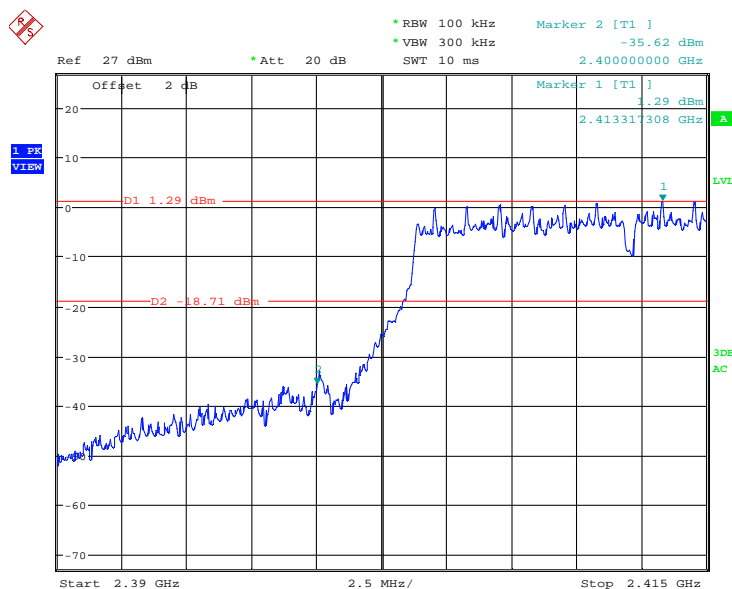


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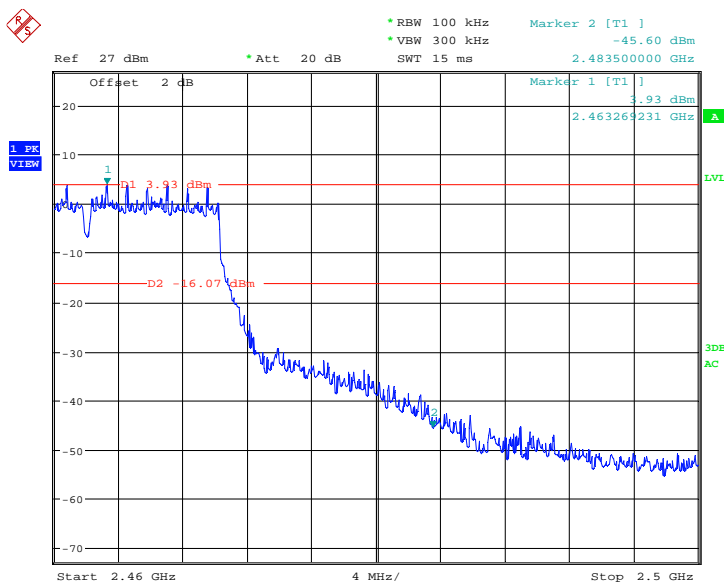
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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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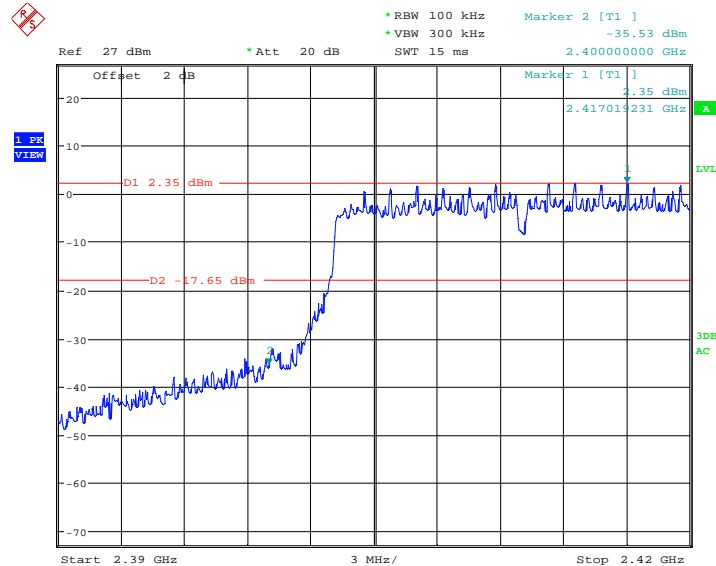


# Shenzhen EBO Technology Co., Ltd.

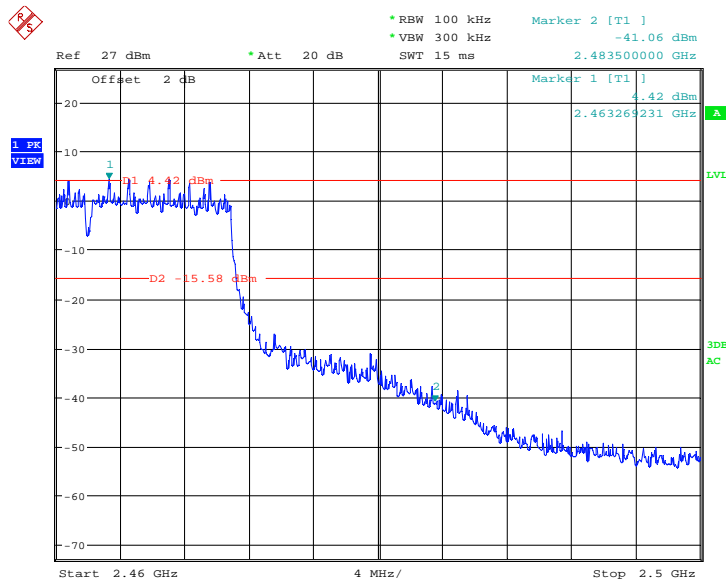
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Test mode:	802.11n (H20)	Test channel:	Lowest
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Test mode:	802.11n (H20)	Test channel:	Highest
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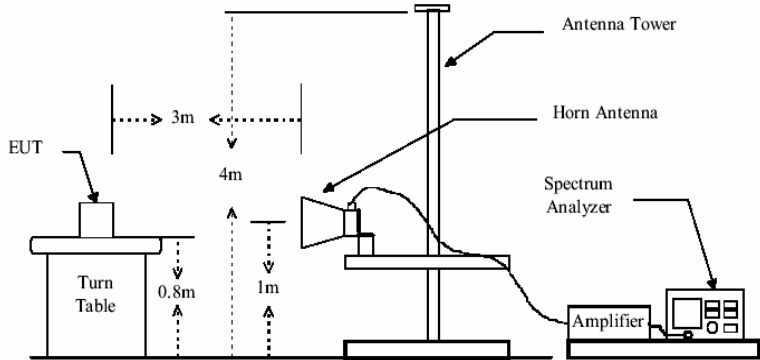


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## 6.6.2 Radiated Emission Method

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 (Semi-Anechoic Chamber)				
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	54.0		Average Value	
74.0		Peak Value			
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>				

Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

**Note:**

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

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



**Measurement data:**

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			
2390	51.94	27.59	3.33	30.10	52.76	74.00	-21.24	Vertical			
2400	57.27	27.58	3.37	30.10	58.12	74.00	-15.88	Vertical			
2390	53.11	27.59	3.33	30.10	53.93	74.00	-20.07	Horizontal			
2400	58.16	27.58	3.37	30.10	59.01	74.00	-14.99	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			
2390	34.60	27.59	3.33	30.10	35.42	54.00	-18.58	Vertical			
2400	38.26	27.58	3.37	30.10	39.11	54.00	-14.89	Vertical			
2390	35.65	27.59	3.33	30.10	36.47	54.00	-17.53	Horizontal			
2400	39.34	27.58	3.37	30.10	40.19	54.00	-13.81	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			
2483.5	51.50	27.53	3.49	29.93	52.59	74.00	-21.41	Vertical			
2500	55.55	27.55	3.52	30.70	55.92	74.00	-18.08	Vertical			
2483.5	52.60	27.53	3.49	29.93	53.69	74.00	-20.31	Horizontal			
2500	56.73	27.55	3.52	30.70	57.10	74.00	-16.90	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			
2483.5	39.34	27.53	3.49	29.93	40.43	54.00	-13.57	Vertical			
2500	35.44	27.55	3.52	30.70	35.81	54.00	-18.19	Vertical			
2483.5	40.56	27.53	3.49	29.93	41.65	54.00	-12.35	Horizontal			
2500	36.83	27.55	3.52	30.70	37.20	54.00	-16.80	Horizontal			

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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			
2390	51.06	27.59	3.33	30.10	51.88	74.00	-22.12	Vertical			
2400	56.66	27.58	3.37	30.10	57.51	74.00	-16.49	Vertical			
2390	53.41	27.59	3.33	30.10	54.23	74.00	-19.77	Horizontal			
2400	58.97	27.58	3.37	30.10	59.82	74.00	-14.18	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			
2390	36.32	27.59	3.33	30.10	37.14	54.00	-16.86	Vertical			
2400	41.75	27.58	3.37	30.10	42.60	54.00	-11.40	Vertical			
2390	39.11	27.59	3.33	30.10	39.93	54.00	-14.07	Horizontal			
2400	44.59	27.58	3.37	30.10	45.44	54.00	-8.56	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			
2483.5	51.89	27.53	3.49	29.93	52.98	74.00	-21.02	Vertical			
2500	57.35	27.55	3.52	30.70	57.72	74.00	-16.28	Vertical			
2483.5	54.30	27.53	3.49	29.93	55.39	74.00	-18.61	Horizontal			
2500	59.64	27.55	3.52	30.70	60.01	74.00	-13.99	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			
2483.5	41.43	27.53	3.49	29.93	42.52	54.00	-11.48	Vertical			
2500	38.68	27.55	3.52	30.70	39.05	54.00	-14.95	Vertical			
2483.5	42.55	27.53	3.49	29.93	43.64	54.00	-10.36	Horizontal			
2500	39.85	27.55	3.52	30.70	40.22	54.00	-13.78	Horizontal			

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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			
2390	37.28	27.59	3.33	30.10	38.10	74.00	-35.90	Vertical			
2400	50.90	27.58	3.37	30.10	51.75	74.00	-22.25	Vertical			
2390	52.06	27.59	3.33	30.10	52.88	74.00	-21.12	Horizontal			
2400	57.28	27.58	3.37	30.10	58.13	74.00	-15.87	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			
2390	37.44	27.59	3.33	30.10	38.26	54.00	-15.74	Vertical			
2400	42.64	27.58	3.37	30.10	43.49	54.00	-10.51	Vertical			
2390	37.39	27.59	3.33	30.10	38.21	54.00	-15.79	Horizontal			
2400	38.53	27.58	3.37	30.10	39.38	54.00	-14.62	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			
2483.5	41.43	27.53	3.49	29.93	42.52	74.00	-31.48	Vertical			
2500	51.50	27.55	3.52	30.70	51.87	74.00	-22.13	Vertical			
2483.5	52.82	27.53	3.49	29.93	53.91	74.00	-20.09	Horizontal			
2500	57.77	27.55	3.52	30.70	58.14	74.00	-15.86	Horizontal			

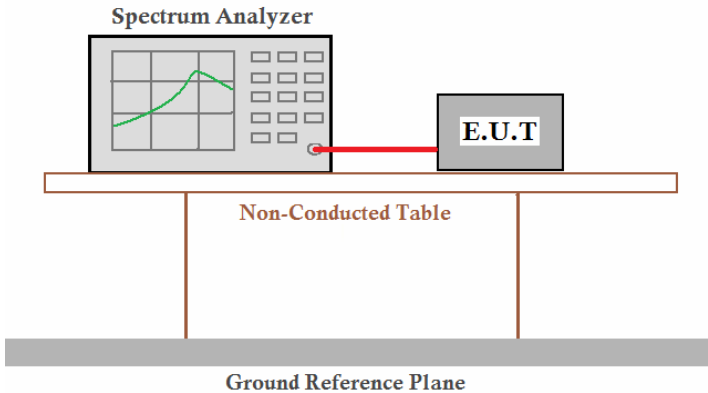
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.5	41.52	27.53	3.49	29.93	42.61	54.00	-11.39	Vertical			
2500	41.30	27.55	3.52	30.70	41.67	54.00	-12.33	Vertical			
2483.5	40.06	27.53	3.49	29.93	41.15	54.00	-12.85	Horizontal			
2500	36.82	27.55	3.52	30.70	37.19	54.00	-16.81	Horizontal			

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## 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
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 for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, 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:	Pass

Test plot as follows:

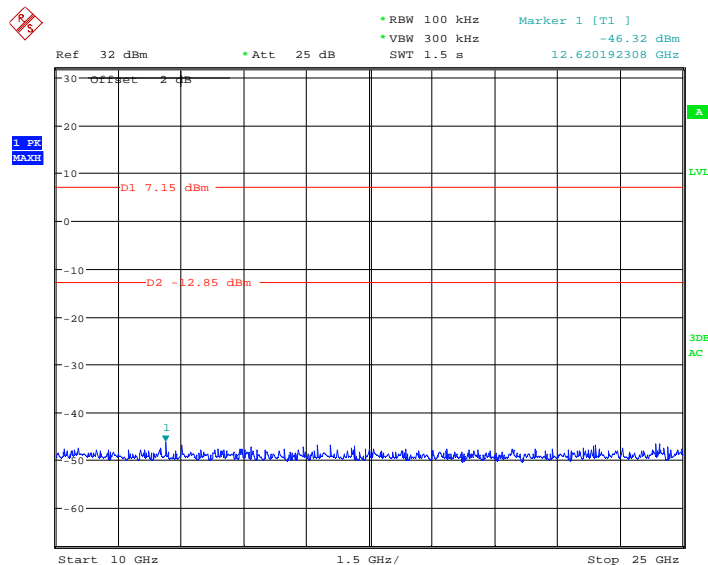
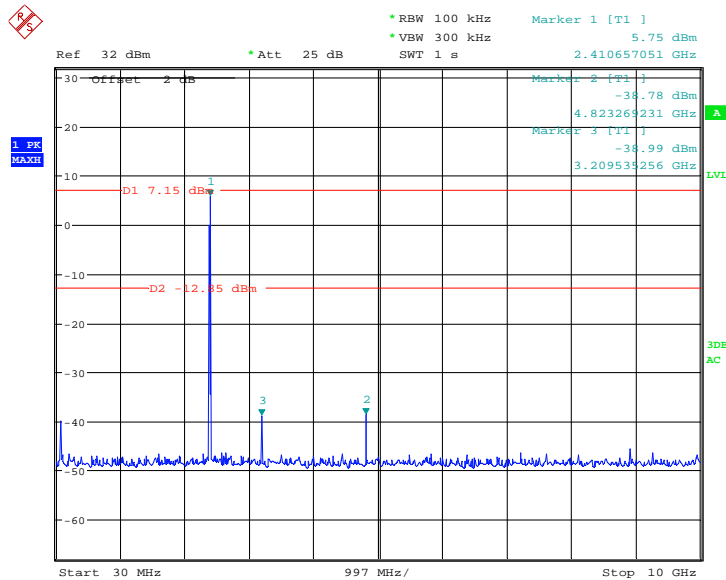


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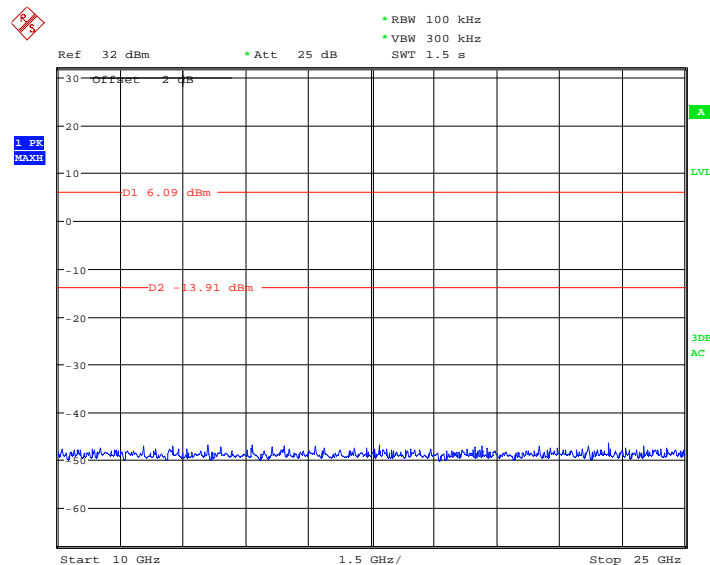
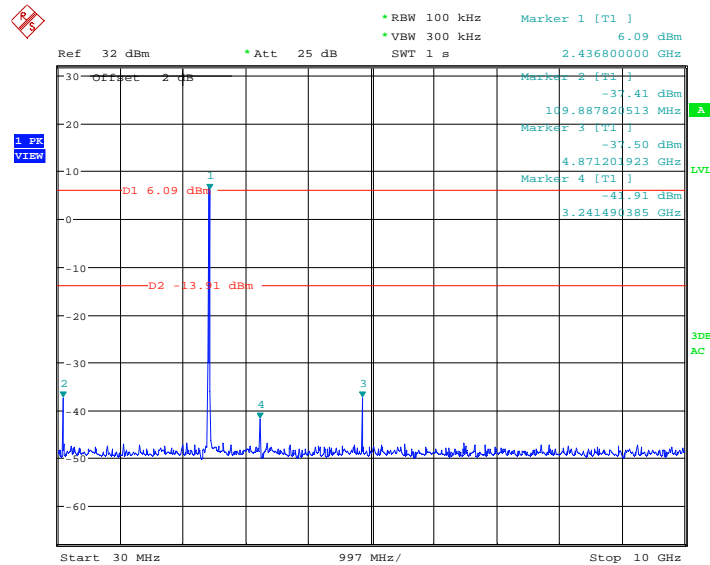
Test mode:	802.11b	Test channel:	Lowest
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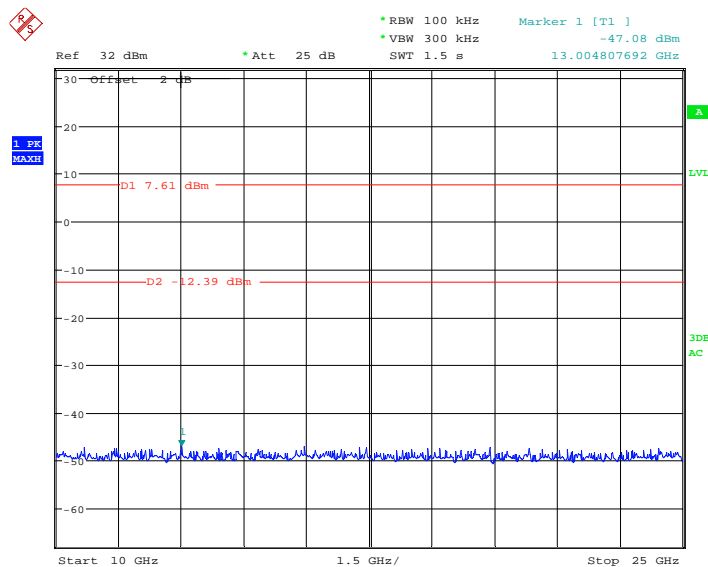
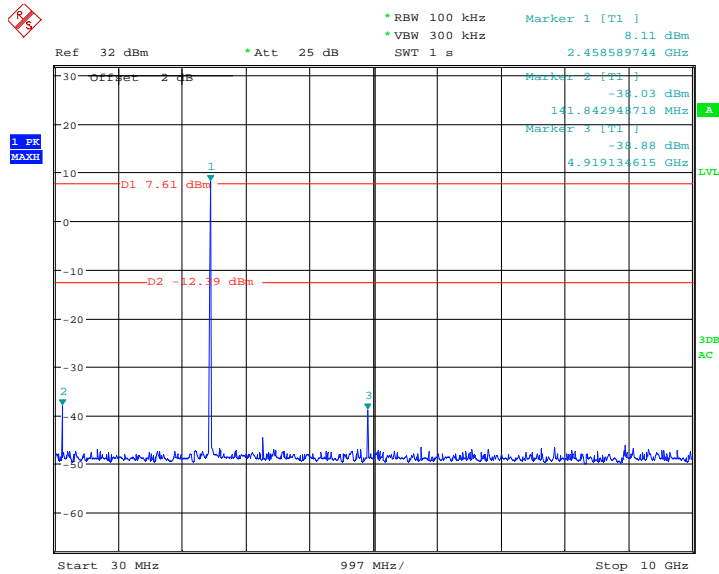
Test mode:	802.11b	Test channel:	Middle
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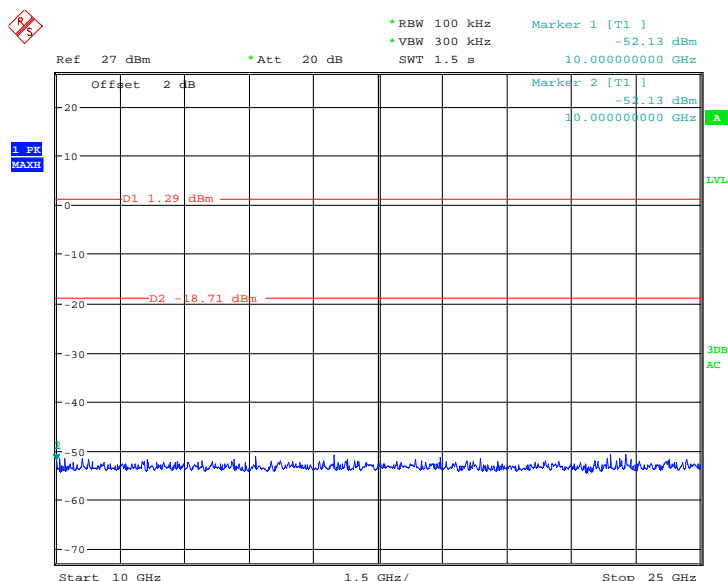
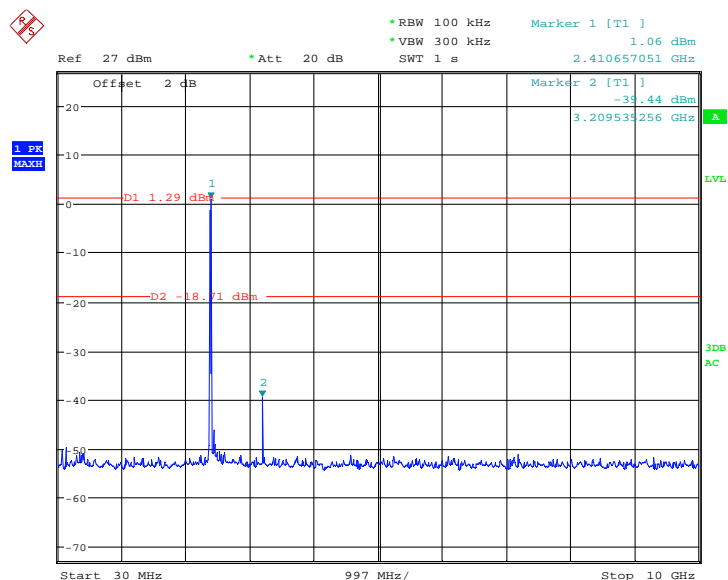
Test mode:	802.11b	Test channel:	Highest
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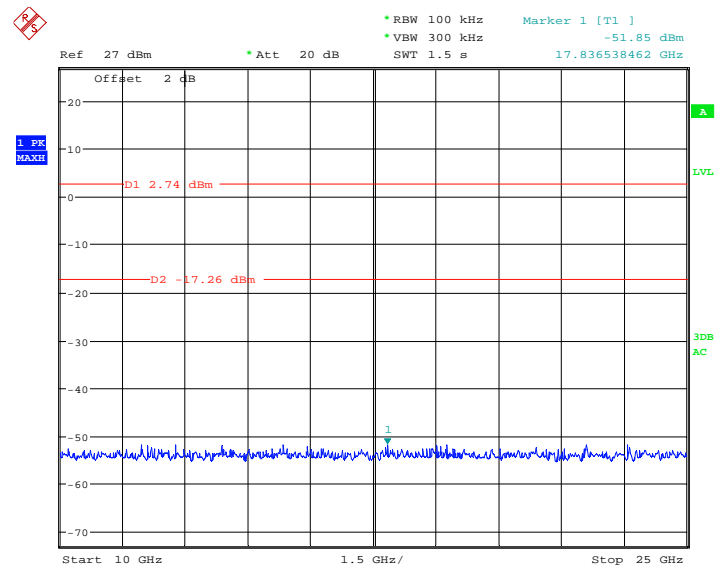
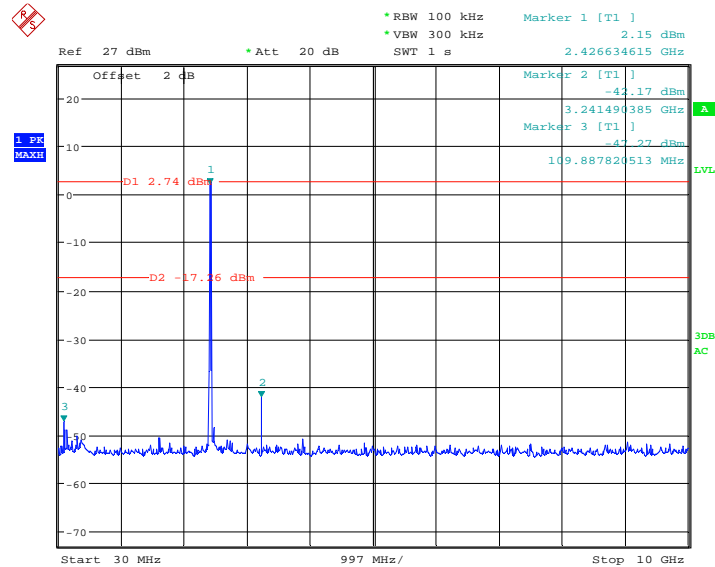
Test mode:	802.11g	Test channel:	Lowest
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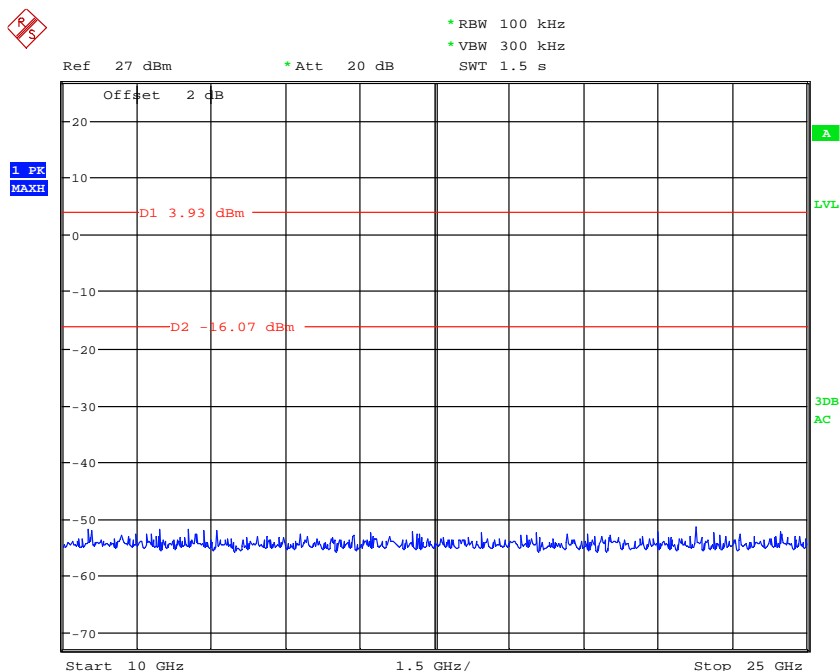
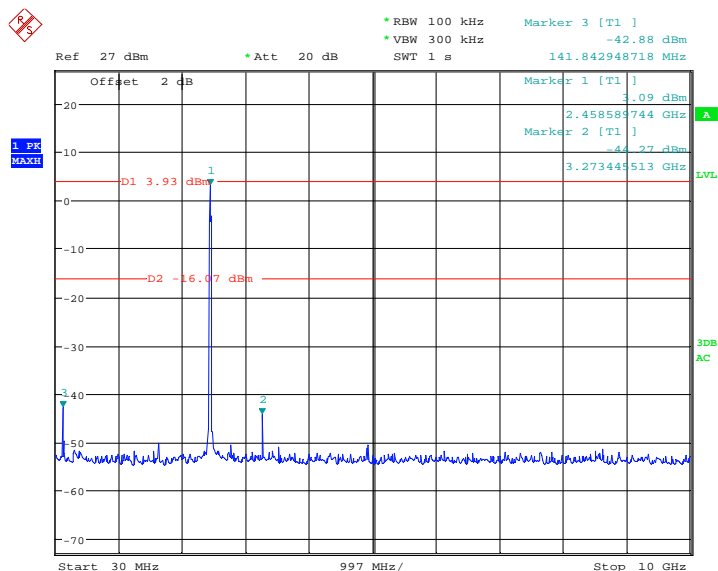
Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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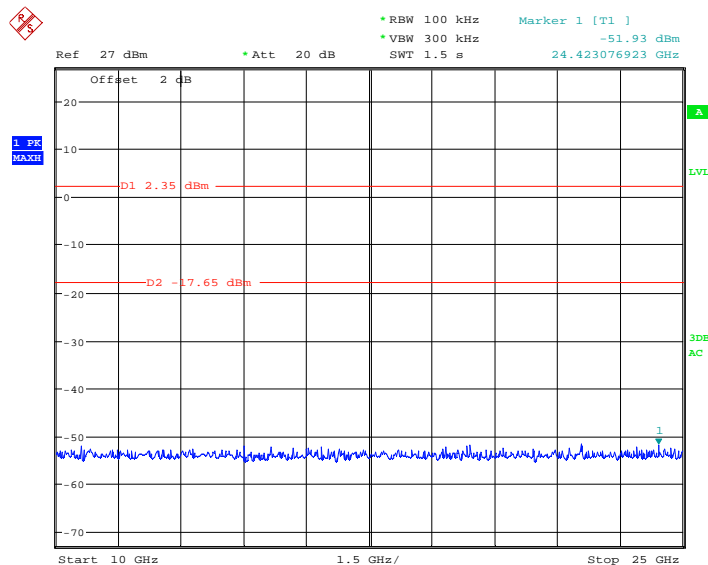
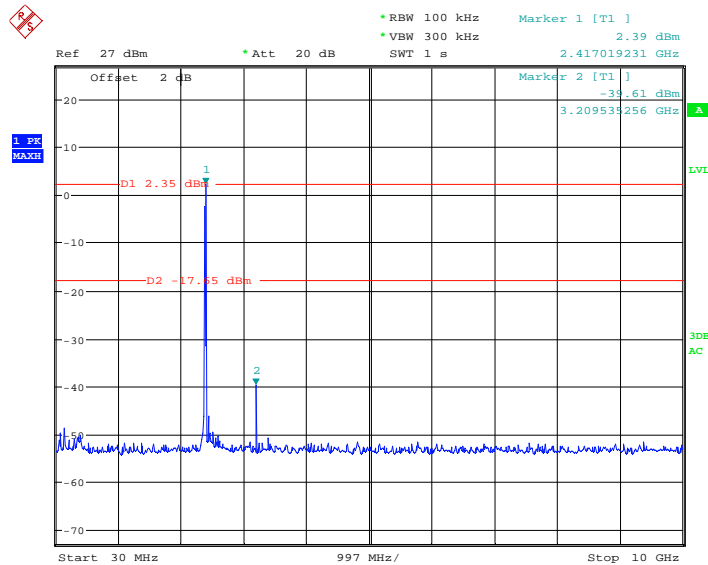
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Test mode:	802.11n(H20)	Test channel:	Lowest
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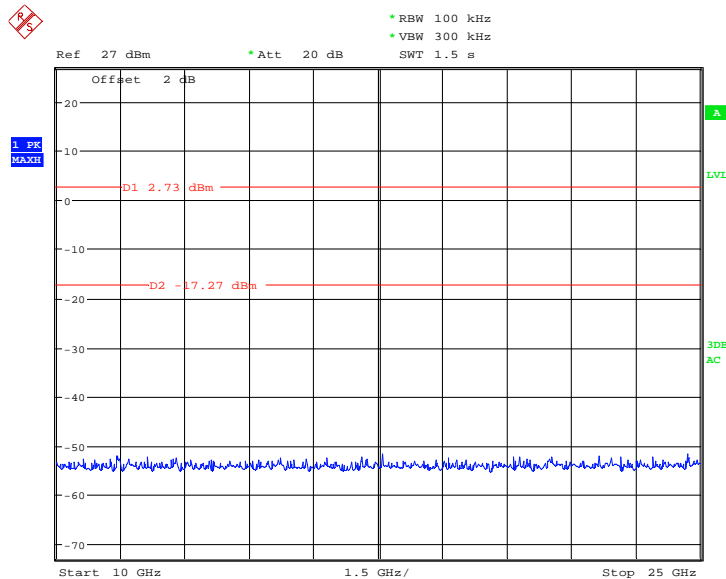
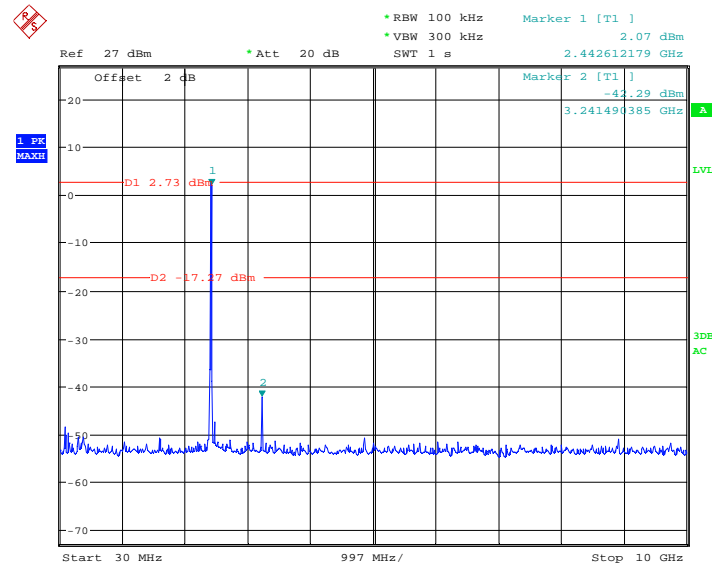


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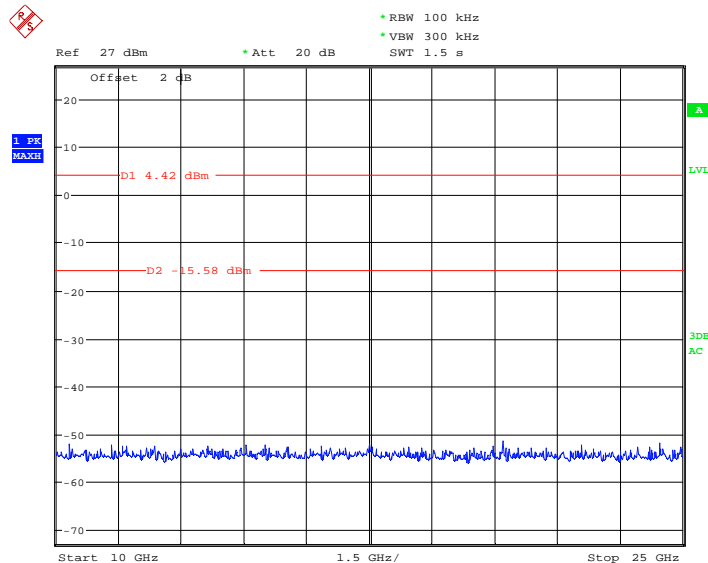
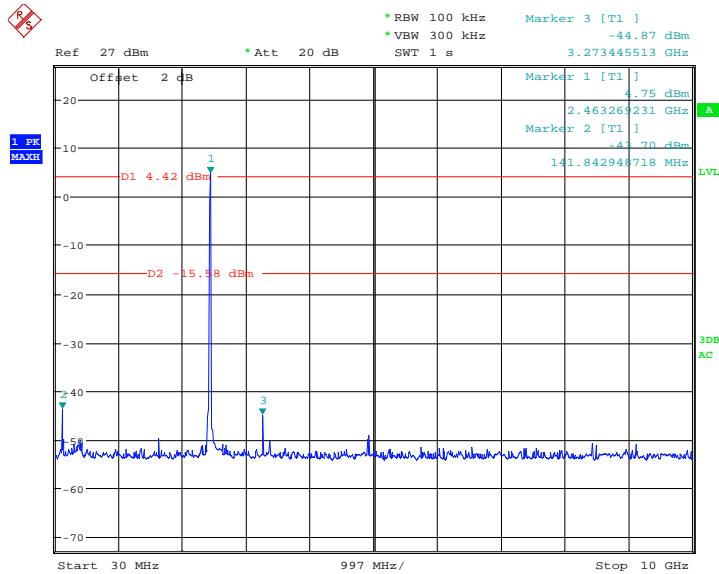
Test mode:	802.11n(H20)	Test channel:	Middle
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Test mode:	802.11n(H20)	Test channel:	Highest
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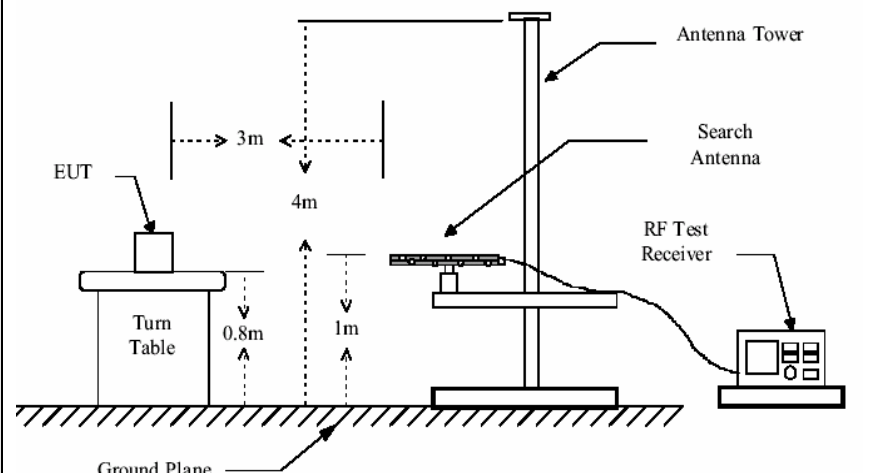
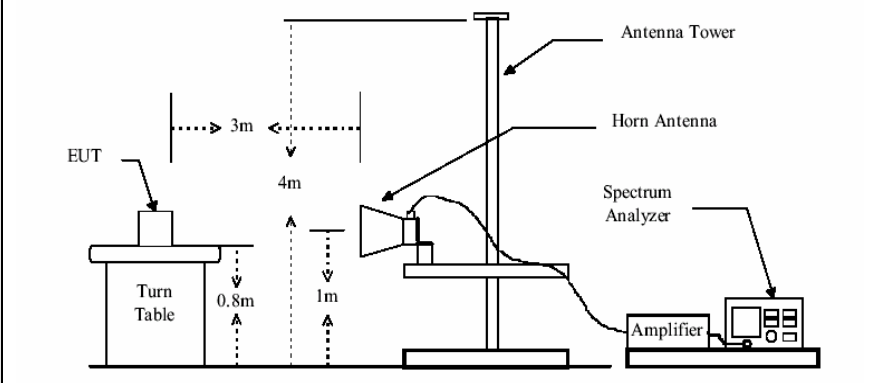


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## 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>				

<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>Pass</p>

**Note:**

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

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



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### Below 1GHz

#### Test in WIFI mode.

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
32.07	47.51	14.60	0.61	32.23	30.49	40.00	-9.51	Vertical
71.33	45.25	13.23	0.86	31.87	27.47	40.00	-12.53	Vertical
156.46	50.20	10.02	1.56	32.01	29.77	43.50	-13.73	Vertical
230.91	48.15	10.86	1.90	32.28	28.63	46.00	-17.37	Vertical
400.43	51.68	14.22	2.26	32.32	35.84	46.00	-10.16	Vertical
699.31	48.24	20.27	2.94	31.70	39.75	46.00	-6.25	Vertical
49.71	39.47	14.80	0.67	32.01	22.93	40.00	-17.07	Horizontal
166.65	52.42	11.53	1.61	32.08	33.48	43.50	-10.02	Horizontal
232.53	53.77	11.98	1.91	32.28	35.38	46.00	-10.62	Horizontal
349.25	55.08	13.84	2.17	32.31	38.78	46.00	-7.22	Horizontal
400.43	54.74	15.64	2.26	32.32	40.32	46.00	-5.68	Horizontal
701.76	47.34	23.19	2.94	31.69	41.78	46.00	-4.22	Horizontal

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## 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	43.71	31.79	5.34	24.07	56.77	74.00	-17.23	Vertical			
7236	33.72	36.19	6.88	26.44	50.35	74.00	-23.65	Vertical			
9648	31.99	38.07	8.96	25.36	53.66	74.00	-20.34	Vertical			
12060	30.50	39.05	10.35	25.15	54.75	74.00	-19.25	Vertical			
14472	---					74.00		Vertical			
16884	---					74.00		Vertical			
4824	45.05	31.79	5.34	24.07	58.11	74.00	-15.89	Horizontal			
7236	35.11	36.19	6.88	26.44	51.74	74.00	-22.26	Horizontal			
9648	33.43	38.07	8.96	25.36	55.10	74.00	-18.90	Horizontal			
12060	31.99	39.05	10.35	25.15	56.24	74.00	-17.76	Horizontal			
14472	---					74.00		Horizontal			
16884	---					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	24.96	31.79	5.34	24.07	38.02	54.00	-15.98	Vertical			
7236	18.75	36.19	6.88	26.44	35.38	54.00	-18.62	Vertical			
9648	16.50	38.07	8.96	25.36	38.17	54.00	-15.83	Vertical			
12060	15.18	39.05	10.35	25.15	39.43	54.00	-14.57	Vertical			
14472	---					54.00		Vertical			
16884	---					54.00		Vertical			
4824	26.27	31.79	5.34	24.07	39.33	54.00	-14.67	Horizontal			
7236	20.11	36.19	6.88	26.44	36.74	54.00	-17.26	Horizontal			
9648	17.91	38.07	8.96	25.36	39.58	54.00	-14.42	Horizontal			
12060	16.64	39.05	10.35	25.15	40.89	54.00	-13.11	Horizontal			
14472	---					54.00		Horizontal			
16884	---					54.00		Horizontal			

### Remark

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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			
4824	44.00	31.85	5.40	24.01	57.24	74.00	-16.76	Vertical			
7236	32.20	36.37	6.90	26.58	48.89	74.00	-25.11	Vertical			
9648	31.24	38.13	8.98	25.34	53.01	74.00	-20.99	Vertical			
12060	29.06	38.92	10.38	25.04	53.32	74.00	-20.68	Vertical			
14472	---					74.00		Vertical			
16884	---					74.00		Vertical			
4824	45.84	31.85	5.40	24.01	59.08	74.00	-14.92	Horizontal			
7236	34.13	36.37	6.90	26.58	50.82	74.00	-23.18	Horizontal			
9648	33.26	38.13	8.98	25.34	55.03	74.00	-18.97	Horizontal			
12060	31.17	38.92	10.38	25.04	55.43	74.00	-18.57	Horizontal			
14472	---					74.00		Horizontal			
16884	---					74.00		Horizontal			

Test mode:		802.11b		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	26.38	31.85	5.40	24.01	39.62	54.00	-14.38	Vertical			
7311	19.25	36.37	6.90	26.58	35.94	54.00	-18.06	Vertical			
9688	15.21	38.13	8.98	25.34	36.98	54.00	-17.02	Vertical			
12185	16.19	38.92	10.38	25.04	40.45	54.00	-13.55	Vertical			
14682	---					54.00		Vertical			
17179	---					54.00		Vertical			
4874	28.12	31.85	5.40	24.01	41.36	54.00	-12.64	Horizontal			
7311	21.03	36.37	6.90	26.58	37.72	54.00	-16.28	Horizontal			
9688	17.03	38.13	8.98	25.34	38.80	54.00	-15.20	Horizontal			
12185	18.05	38.92	10.38	25.04	42.31	54.00	-11.69	Horizontal			
14682	---					54.00		Horizontal			
17179	---					54.00		Horizontal			

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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924	43.15	31.89	5.46	23.96	56.54	74.00	-17.46	Vertical			
7386	34.40	36.49	6.93	26.79	51.03	74.00	-22.97	Vertical			
9848	30.73	38.24	9.05	25.30	52.72	74.00	-21.28	Vertical			
12310	29.07	38.83	10.41	24.90	53.41	74.00	-20.59	Vertical			
14772	---					74.00		Vertical			
17234	---					74.00		Vertical			
4924	44.89	31.89	5.46	23.96	58.28	74.00	-15.72	Horizontal			
7386	36.25	36.49	6.93	26.79	52.88	74.00	-21.12	Horizontal			
9848	32.69	38.24	9.05	25.30	54.68	74.00	-19.32	Horizontal			
12310	31.14	38.83	10.41	24.90	55.48	74.00	-18.52	Horizontal			
14772	---					74.00		Horizontal			
17234	---					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	26.49	31.89	5.46	23.96	39.88	54.00	-14.12	Vertical			
7386	20.44	36.49	6.93	26.79	37.07	54.00	-16.93	Vertical			
9848	20.97	38.24	9.05	25.30	42.96	54.00	-11.04	Vertical			
12310	17.38	38.83	10.41	24.90	41.72	54.00	-12.28	Vertical			
14772	---					54.00		Vertical			
17234	---					54.00		Vertical			
4924	28.15	31.89	5.46	23.96	41.54	54.00	-12.46	Horizontal			
7386	22.13	36.49	6.93	26.79	38.76	54.00	-15.24	Horizontal			
9848	22.69	38.24	9.05	25.30	44.68	54.00	-9.32	Horizontal			
12310	19.13	38.83	10.41	24.90	43.47	54.00	-10.53	Horizontal			
14772	---					54.00		Horizontal			
17234	---					54.00		Horizontal			

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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	42.21	31.79	5.34	24.07	55.27	74.00	-18.73	Vertical			
7236	35.50	36.19	6.88	26.44	52.13	74.00	-21.87	Vertical			
9648	31.12	38.07	8.96	25.36	52.79	74.00	-21.21	Vertical			
12060	29.41	39.05	10.35	25.15	53.66	74.00	-20.34	Vertical			
14472	---					74.00		Vertical			
16884	---					74.00		Vertical			
4824	42.32	31.79	5.34	24.07	55.38	74.00	-18.62	Horizontal			
7236	34.76	36.19	6.88	26.44	51.39	74.00	-22.61	Horizontal			
9648	32.32	38.07	8.96	25.36	53.99	74.00	-20.01	Horizontal			
12060	30.55	39.05	10.35	25.15	54.80	74.00	-19.20	Horizontal			
14472	---					74.00		Horizontal			
16884	---					74.00		Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824	28.91	31.79	5.34	24.07	41.97	54.00	-12.03	Vertical			
7236	22.77	36.19	6.88	26.44	39.40	54.00	-14.60	Vertical			
9648	17.44	38.07	8.96	25.36	39.11	54.00	-14.89	Vertical			
12060	15.98	39.05	10.35	25.15	40.23	54.00	-13.77	Vertical			
14472	---					54.00		Vertical			
16884	---					54.00		Vertical			
4824	30.22	31.79	5.34	24.07	43.28	54.00	-10.72	Horizontal			
7236	24.13	36.19	6.88	26.44	40.76	54.00	-13.24	Horizontal			
9648	18.85	38.07	8.96	25.36	40.52	54.00	-13.48	Horizontal			
12060	17.44	39.05	10.35	25.15	41.69	54.00	-12.31	Horizontal			
14472	---					54.00		Horizontal			
16884	---					54.00		Horizontal			

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Test mode:		802.11g		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	40.02	31.85	5.40	24.01	53.26	74.00	-20.74	Vertical			
7311	32.94	36.37	6.90	26.58	49.63	74.00	-24.37	Vertical			
9688	28.64	38.13	8.98	25.34	50.41	74.00	-23.59	Vertical			
12185	29.50	38.92	10.38	25.04	53.76	74.00	-20.24	Vertical			
14472						74.00		Vertical			
16884						74.00		Vertical			
4874	41.85	31.85	5.40	24.01	55.09	74.00	-18.91	Horizontal			
7311	34.17	36.37	6.90	26.58	50.86	74.00	-23.14	Horizontal			
9688	28.88	38.13	8.98	25.34	50.65	74.00	-23.35	Horizontal			
12185	29.75	38.92	10.38	25.04	54.01	74.00	-19.99	Horizontal			
14472	---					74.00		Horizontal			
16884	---					74.00		Horizontal			

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	26.33	31.85	5.40	24.01	39.57	54.00	-14.43	Vertical			
7311	22.65	36.37	6.90	26.58	39.34	54.00	-14.66	Vertical			
9688	17.46	38.13	8.98	25.34	39.23	54.00	-14.77	Vertical			
12185	16.25	38.92	10.38	25.04	40.51	54.00	-13.49	Vertical			
14472	---					54.00		Vertical			
16884	---					54.00		Vertical			
4874	28.07	31.85	5.40	24.01	41.31	54.00	-12.69	Horizontal			
7311	24.43	36.37	6.90	26.58	41.12	54.00	-12.88	Horizontal			
9688	19.28	38.13	8.98	25.34	41.05	54.00	-12.95	Horizontal			
12185	18.11	38.92	10.38	25.04	42.37	54.00	-11.63	Horizontal			
14472	---					54.00		Horizontal			
16884	---					54.00		Horizontal			

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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	41.70	31.89	5.46	23.96	55.09	74.00	-18.91	Vertical			
7386	35.65	36.49	6.93	26.79	52.28	74.00	-21.72	Vertical			
9848	32.10	38.24	9.05	25.30	54.09	74.00	-19.91	Vertical			
12310	29.13	38.83	10.41	24.90	53.47	74.00	-20.53	Vertical			
14772	---					74.00		Vertical			
17234	---					74.00		Vertical			
4924	44.12	31.89	5.46	23.96	57.51	74.00	-16.49	Horizontal			
7386	35.73	36.49	6.93	26.79	52.36	74.00	-21.64	Horizontal			
9848	32.10	38.24	9.05	25.30	54.09	74.00	-19.91	Horizontal			
12310	29.07	38.83	10.41	24.90	53.41	74.00	-20.59	Horizontal			
14772	---					74.00		Horizontal			
17234	---					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	26.80	31.89	5.46	23.96	40.19	54.00	-13.81	Vertical			
7386	22.96	36.49	6.93	26.79	39.59	54.00	-14.41	Vertical			
9848	18.70	38.24	9.05	25.30	40.69	54.00	-13.31	Vertical			
12310	16.96	38.83	10.41	24.90	41.30	54.00	-12.70	Vertical			
14772	---					54.00		Vertical			
17234	---					54.00		Vertical			
4924	28.46	31.89	5.46	23.96	41.85	54.00	-12.15	Horizontal			
7386	24.65	36.49	6.93	26.79	41.28	54.00	-12.72	Horizontal			
9848	20.42	38.24	9.05	25.30	42.41	54.00	-11.59	Horizontal			
12310	18.71	38.83	10.41	24.90	43.05	54.00	-10.95	Horizontal			
14772	---					54.00		Horizontal			
17234	---					54.00		Horizontal			

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Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824	35.40	31.79	5.34	24.07	48.46	74.00	-25.54	Vertical			
7236	31.62	36.19	6.88	26.44	48.25	74.00	-25.75	Vertical			
9648	30.13	38.07	8.96	25.36	51.80	74.00	-22.20	Vertical			
12060	28.79	39.05	10.35	25.15	53.04	74.00	-20.96	Vertical			
14472	---					74.00		Vertical			
16884	---					74.00		Vertical			
4824	36.71	31.79	5.34	24.07	49.77	74.00	-24.23	Horizontal			
7236	32.98	36.19	6.88	26.44	49.61	74.00	-24.39	Horizontal			
9648	31.54	38.07	8.96	25.36	53.21	74.00	-20.79	Horizontal			
12060	30.25	39.05	10.35	25.15	54.50	74.00	-19.50	Horizontal			
14472	---					74.00		Horizontal			
16884	---					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	24.26	31.79	5.34	24.07	37.32	54.00	-16.68	Vertical			
7236	22.82	36.19	6.88	26.44	39.45	54.00	-14.55	Vertical			
9648	18.67	38.07	8.96	25.36	40.34	54.00	-13.66	Vertical			
12060	16.13	39.05	10.35	25.15	40.38	54.00	-13.62	Vertical			
14472	---					54.00		Vertical			
16884	---					54.00		Vertical			
4824	25.57	31.79	5.34	24.07	38.63	54.00	-15.37	Horizontal			
7236	24.18	36.19	6.88	26.44	40.81	54.00	-13.19	Horizontal			
9648	20.08	38.07	8.96	25.36	41.75	54.00	-12.25	Horizontal			
12060	17.59	39.05	10.35	25.15	41.84	54.00	-12.16	Horizontal			
14472	---					54.00		Horizontal			
16884	---					54.00		Horizontal			

### Remark

"---" means that the emission level is too low to be measured

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Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	38.17	31.85	5.40	24.01	51.41	74.00	-22.59	Vertical			
7311	31.91	36.37	6.90	26.58	48.60	74.00	-25.40	Vertical			
9688	27.69	38.13	8.98	25.34	49.46	74.00	-24.54	Vertical			
12185	27.63	38.92	10.38	25.04	51.89	74.00	-22.11	Vertical			
14472	---					74.00		Vertical			
16884	---					74.00		Vertical			
4874	39.91	31.85	5.40	24.01	53.15	74.00	-20.85	Horizontal			
7311	33.69	36.37	6.90	26.58	50.38	74.00	-23.62	Horizontal			
9688	29.51	38.13	8.98	25.34	51.28	74.00	-22.72	Horizontal			
12185	29.49	38.92	10.38	25.04	53.75	74.00	-20.25	Horizontal			
14472	---					74.00		Horizontal			
16884	---					74.00		Horizontal			

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	25.64	31.85	5.40	24.01	38.88	54.00	-15.12	Vertical			
7311	23.79	36.37	6.90	26.58	40.48	54.00	-13.52	Vertical			
9688	19.54	38.13	8.98	25.34	41.31	54.00	-12.69	Vertical			
12185	17.61	38.92	10.38	25.04	41.87	54.00	-12.13	Vertical			
14472	---					54.00		Vertical			
16884	---					54.00		Vertical			
4874	27.38	31.85	5.40	24.01	40.62	54.00	-13.38	Horizontal			
7311	25.57	36.37	6.90	26.58	42.26	54.00	-11.74	Horizontal			
9688	21.36	38.13	8.98	25.34	43.13	54.00	-10.87	Horizontal			
12185	19.47	38.92	10.38	25.04	43.73	54.00	-10.27	Horizontal			
14472	---					54.00		Horizontal			
16884	---					54.00		Horizontal			

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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	38.10	31.89	5.46	23.96	51.49	74.00	-22.51	Vertical			
7386	34.18	36.49	6.93	26.79	50.81	74.00	-23.19	Vertical			
9848	31.30	38.24	9.05	25.30	53.29	74.00	-20.71	Vertical			
12310	28.37	38.83	10.41	24.90	52.71	74.00	-21.29	Vertical			
14772	---					74.00		Vertical			
17234	---					74.00		Vertical			
4924	39.76	31.89	5.46	23.96	53.15	74.00	-20.85	Horizontal			
7386	35.87	36.49	6.93	26.79	52.50	74.00	-21.50	Horizontal			
9848	33.02	38.24	9.05	25.30	55.01	74.00	-18.99	Horizontal			
12310	30.12	38.83	10.41	24.90	54.46	74.00	-19.54	Horizontal			
14772	---					74.00		Horizontal			
17234	---					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	26.14	31.89	5.46	23.96	39.53	54.00	-14.47	Vertical			
7386	23.30	36.49	6.93	26.79	39.93	54.00	-14.07	Vertical			
9848	20.04	38.24	9.05	25.30	42.03	74.00	-31.97	Vertical			
12310	18.60	38.83	10.41	24.90	42.94	54.00	-11.06	Vertical			
14772	---					54.00		Vertical			
17234	---					54.00		Vertical			
4924	27.80	31.89	5.46	23.96	41.19	54.00	-12.81	Horizontal			
7386	24.99	36.49	6.93	26.79	41.62	54.00	-12.38	Horizontal			
9848	21.76	38.24	9.05	25.30	43.75	54.00	-10.25	Horizontal			
12310	20.35	38.83	10.41	24.90	44.69	54.00	-9.31	Horizontal			
14772	---					54.00		Horizontal			
17234	---					54.00		Horizontal			

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