



**Shenzhen EBO Technology Co., Ltd.**

North 710, Yihua Building, Shennan Road, Futian District,  
Shenzhen, P. R. China  
Telephone : +86-755-29451282,  
Fax: +86-755-22639141

Report No.: FCC11-RTE111101  
Page 1 of 62

# FCC REPORT

Applicant: Archos SA

Address of Applicant: 12 Rue Ampere Igny 91430 France

## Equipment Under Test (EUT)

Product Name: Home Tablet

Model No.: AN10BG2

Trade mark: ARNOVA

FCC ID: SOVAN10BG2

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

Date of sample receipt: Oct. 24, 2011

Date of Test: Oct. 24-Nov.09, 2011

Date of report issued: Nov.11, 2011

Test Result : PASS \*

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

Authorized Signature:

Kavin Yu  
Laboratory Manager

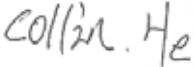
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production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

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

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

## 2 Version

Version No.	Date	Description
00	Nov.11, 2011	Original

**Prepared By:****Date:**

Nov.11, 2011

---

**Project Engineer****Check By:****Date:**

Nov.11, 2011

---

**Reviewer**

### 3 Contents

	Page
<b>1 COVER PAGE .....</b>	<b>1</b>
<b>2 VERSION .....</b>	<b>2</b>
<b>3 CONTENTS .....</b>	<b>3</b>
<b>4 TEST SUMMARY .....</b>	<b>4</b>
<b>5 GENERAL INFORMATION .....</b>	<b>5</b>
5.1 CLIENT INFORMATION .....	5
5.2 GENERAL DESCRIPTION OF E.U.T .....	5
5.3 TEST ENVIRONMENT AND MODE .....	7
5.4 TEST FACILITY .....	7
5.5 TEST LOCATION .....	7
5.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	8
5.7 TEST INSTRUMENTS LIST .....	8
<b>6 TEST RESULTS AND MEASUREMENT DATA .....</b>	<b>9</b>
6.1 ANTENNA REQUIREMENT: .....	9
6.2 CONDUCTED EMISSIONS .....	10
6.3 CONDUCTED PEAK OUTPUT POWER .....	13
6.4 6dB OCCUPY BANDWIDTH .....	18
6.5 POWER SPECTRAL DENSITY .....	23
6.6 BAND EDGE .....	28
6.6.1 <i>Conducted Emission Method</i> .....	28
6.6.2 <i>Radiated Emission Method</i> .....	31
6.7 SPURIOUS EMISSION .....	36
6.7.1 <i>Conducted Emission Method</i> .....	36
6.7.2 <i>Radiated Emission Method</i> .....	43
<b>7 TEST SETUP PHOTO .....</b>	<b>54</b>
<b>8 EUT CONSTRUCTIONAL DETAILS .....</b>	<b>56</b>

## 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:	Archos SA
Address of Applicant:	12 Rue Ampere Igny 91430 France
Manufacturer:	Archos SA
Address of Manufacturer:	12 Rue Ampere Igny 91430 France
Factory:	Shenzhen Shenchuang Electronics Co.,Ltd
Address of Factory:	7th floor,West Tower,Hengfanglaobing Industrial Park, Xingye Road,Xixiang Town,Bao'an District,Shenzhen

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

Product Name:	Home Tablet
Model No.:	AN10BG2
Trade mark:	ARNOVA
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integral
Antenna gain:	2dBi
AC adapter:	Trade mark:  Model :HNC050200X Input:100-240V-0.35A(MAX)50/60Hz Output:5.0V-2A
Power supply:	DC 3.7V (Lithium battery)

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

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

Note:

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

802.11b/802.11g/802.11n(H20)

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

802.11n(H40)

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

### 5.3 Test environment and mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
<b>Test mode:</b>	
WIFI mode	Keep the EUT in browsing information by wireless router.
Transmitting mode:	Keep the EUT in transmitting mode at the fix channel and worse data rate.

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 out 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

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## 5.6 Other Information Requested by the Customer

None.

## 5.7 Test Instruments list

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

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

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement:	<p><i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p>
15.247(c) (1)(i) requirement:	<p><i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i></p>
E.U.T Antenna:	<p><i>The antenna is internal, can not be replaced by user, the best case gain of the antenna is 2.0dBi.</i></p>

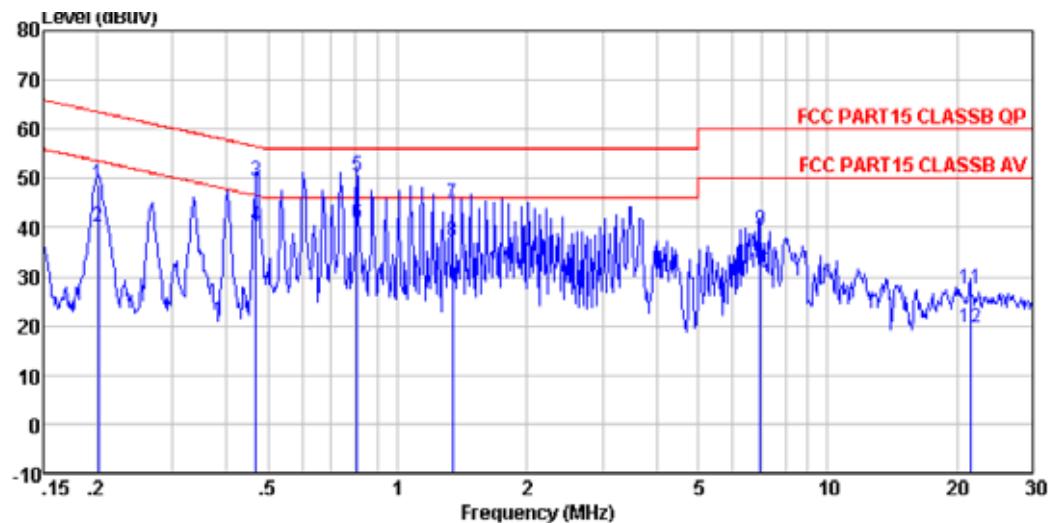
## 6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.4: 2009																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz																
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
	* Decreases with the logarithm of the frequency.																
Test procedure	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>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 refers to the block diagram of the test setup and photographs).</li> <li>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: 2009 on conducted measurement.</li> </ol>																
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>40cm</p> <p>80cm</p> <p>Test table height=0.8m</p>																
Test Instruments:	Refer to section 5.7 for details																
Test mode:	WIFI mode																
Test results:	Passed																

### Measurement Data

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## Live Line:



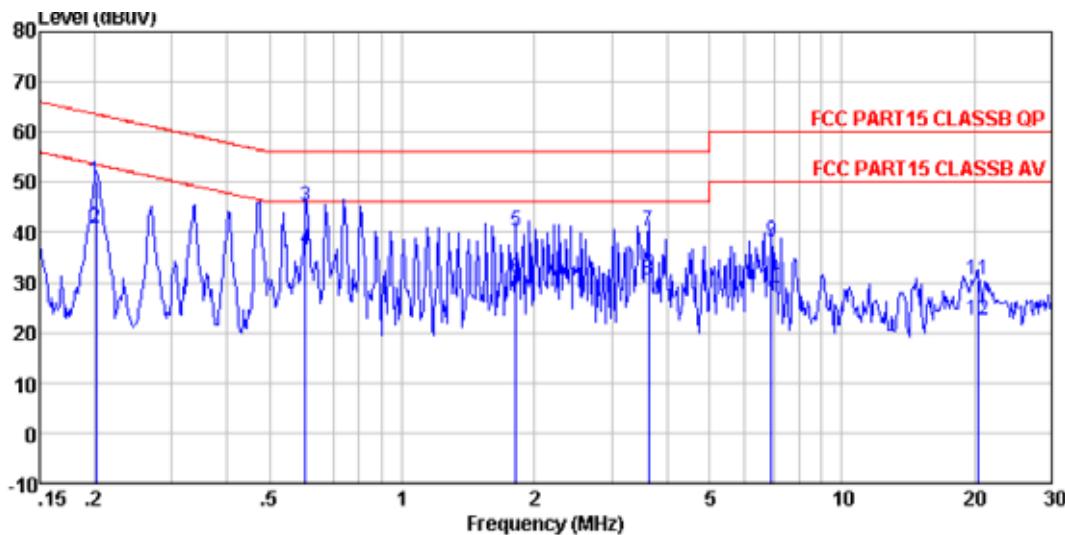
Condition : FCC PART15 CLASSB QP LISN(2011) LINE

Job No. : 861RF

Test Mode : WIFI mode

Test Engineer: Osccar

Freq	Read	LISN	Cable	Limit	Over	Remark
	MHz	Level	Factor			
1	0.202	48.15	0.66	0.10	48.91	63.54 -14.63 QP
2	0.202	39.47	0.66	0.10	40.23	53.54 -13.31 Average
3	0.469	48.66	0.56	0.10	49.32	56.54 -7.22 QP
4	0.469	39.63	0.56	0.10	40.29	46.54 -6.25 Average
5	0.804	49.82	0.50	0.10	50.42	56.00 -5.58 QP
6	0.804	40.22	0.50	0.10	40.82	46.00 -5.18 Average
7	1.345	44.36	0.44	0.10	44.90	56.00 -11.10 QP
8	1.345	36.49	0.44	0.10	37.03	46.00 -8.97 Average
9	6.988	39.11	0.26	0.14	39.51	60.00 -20.49 QP
10	6.988	30.53	0.26	0.14	30.93	50.00 -19.07 Average
11	21.486	27.18	0.14	0.21	27.53	60.00 -32.47 QP
12	21.486	19.27	0.14	0.21	19.62	50.00 -30.38 Average

**Neutral Line:**

Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 861RF

Test Mode : WIFI mode

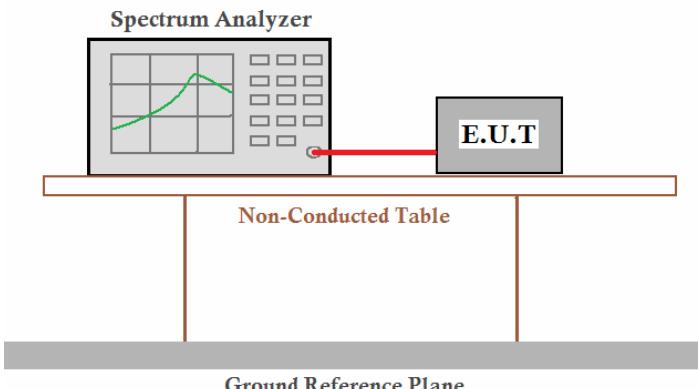
Test Engineer: Osccar

Freq	Read	LISN	Cable	Limit	Over	Remark	
	Level	Factor	Loss				
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.202	49.49	0.66	0.10	50.25	63.54	-13.29 QP
2	0.202	40.21	0.66	0.10	40.97	53.54	-12.57 Average
3	0.604	44.41	0.53	0.10	45.04	56.00	-10.96 QP
4	0.604	35.97	0.53	0.10	36.60	46.00	-9.40 Average
5	1.819	39.58	0.41	0.10	40.09	56.00	-15.91 QP
6	1.819	30.46	0.41	0.10	30.97	46.00	-15.03 Average
7	3.642	39.58	0.33	0.10	40.01	56.00	-15.99 QP
8	3.642	30.11	0.33	0.10	30.54	46.00	-15.46 Average
9	6.914	37.90	0.26	0.14	38.30	60.00	-21.70 QP
10	6.914	28.51	0.26	0.14	28.91	50.00	-21.09 Average
11	20.486	30.25	0.14	0.21	30.60	60.00	-29.40 QP
12	20.486	22.23	0.14	0.21	22.58	50.00	-27.42 Average

**Notes:**

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Final Level =Receiver Read level + LISN Factor + Cable Loss

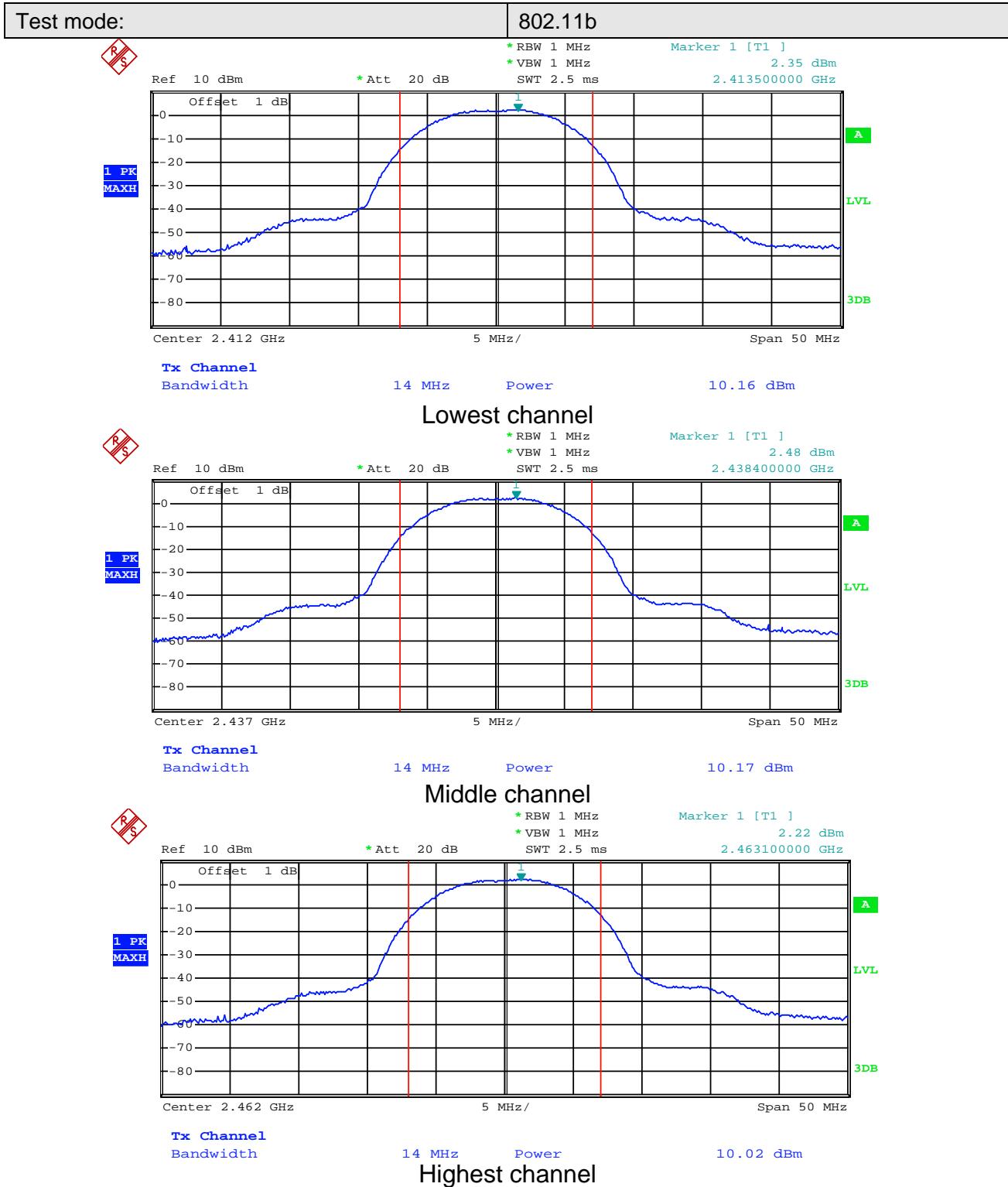
### 6.3 Conducted Peak Output Power

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

#### Measurement Data

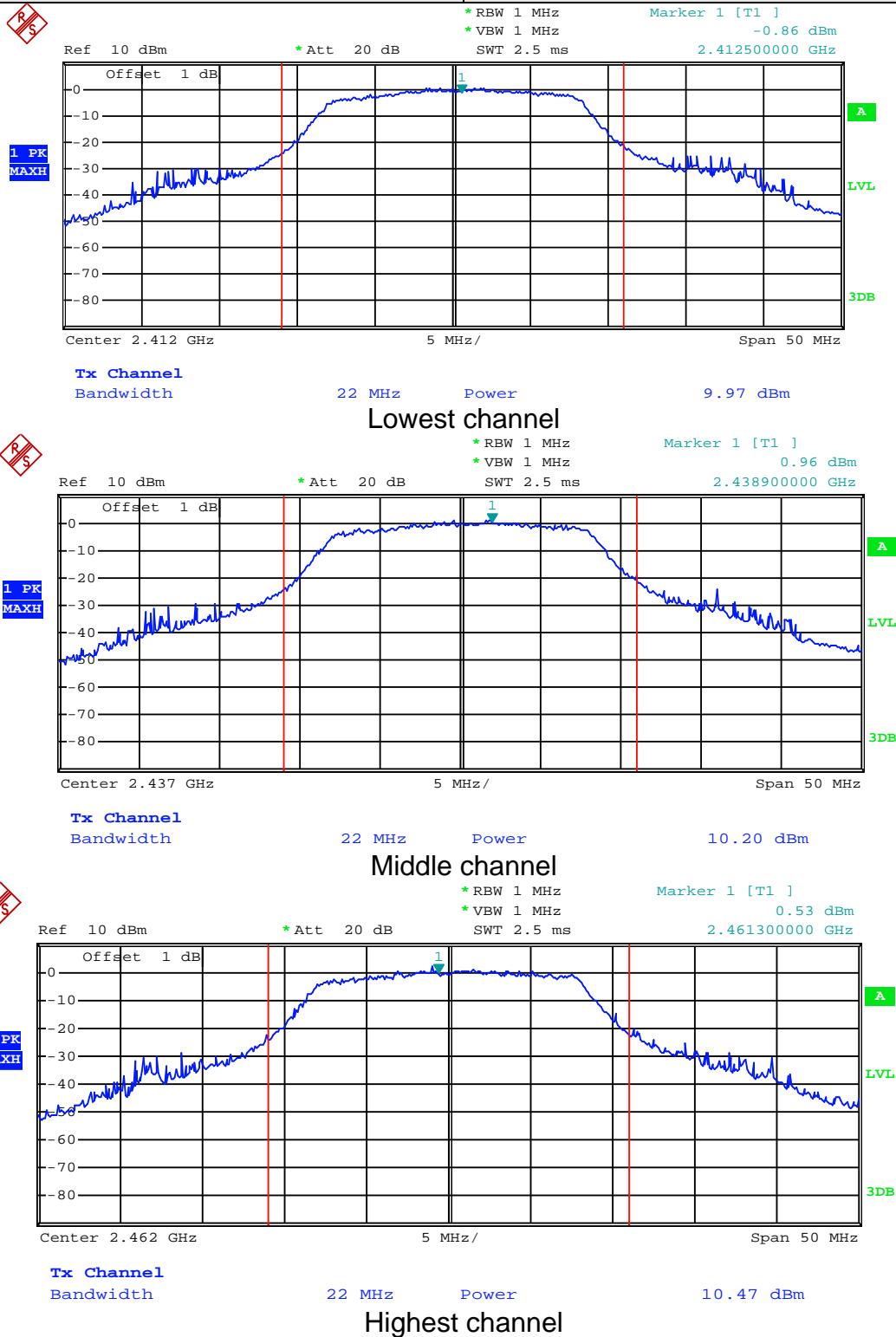
Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.16	9.97	10.51	10.84	30.00	Pass
Middle	10.17	10.20	10.26	10.39		
Highest	10.02	10.47	10.74	10.21		

Test plot as follows:



"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

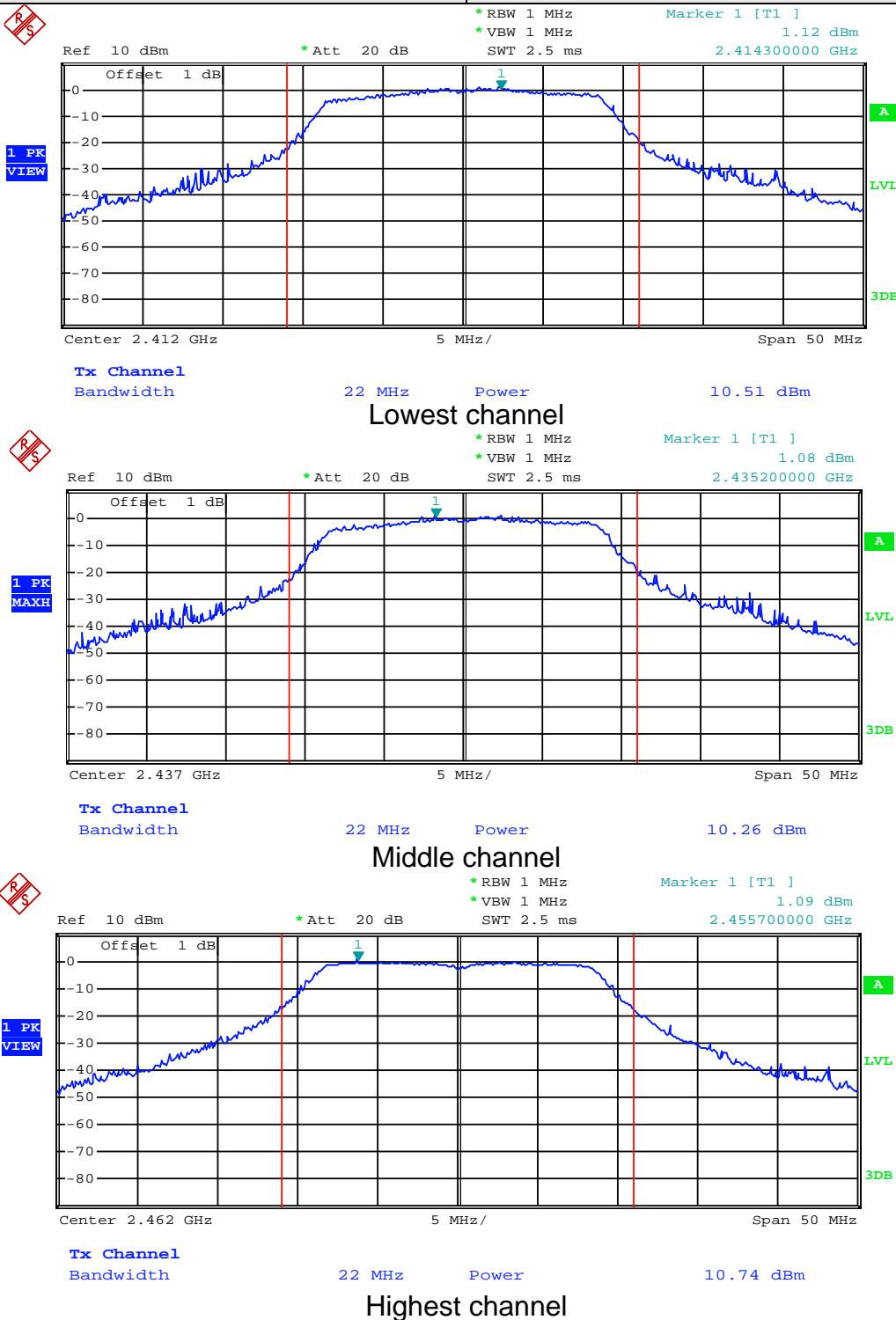
Test mode:	802.11g
------------	---------



"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

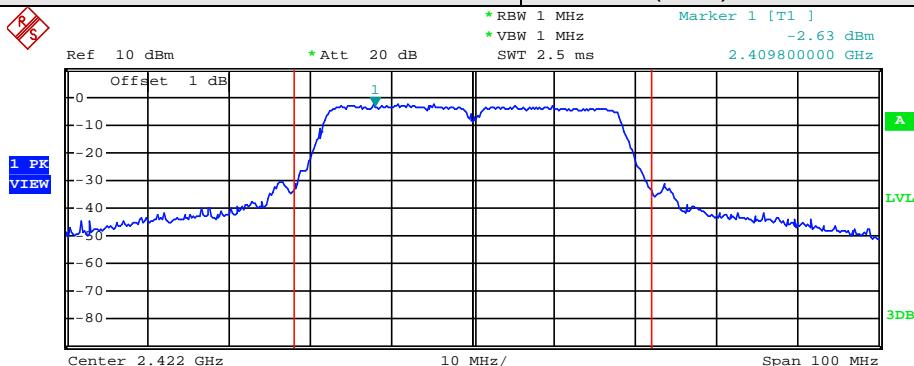
## Test mode:

802.11n(H20)

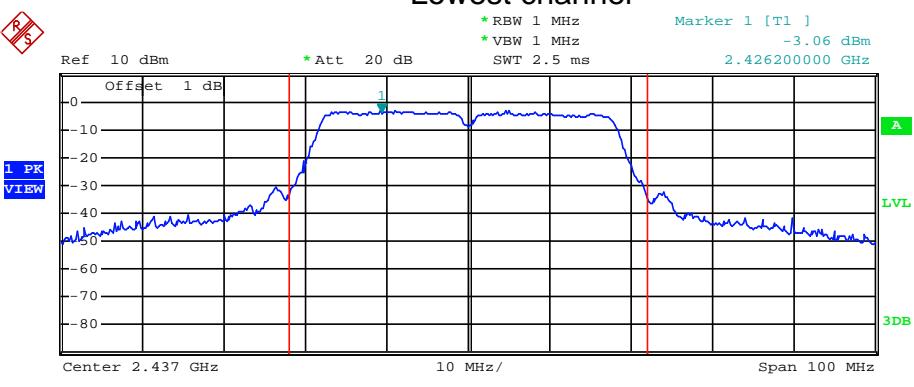


## Test mode:

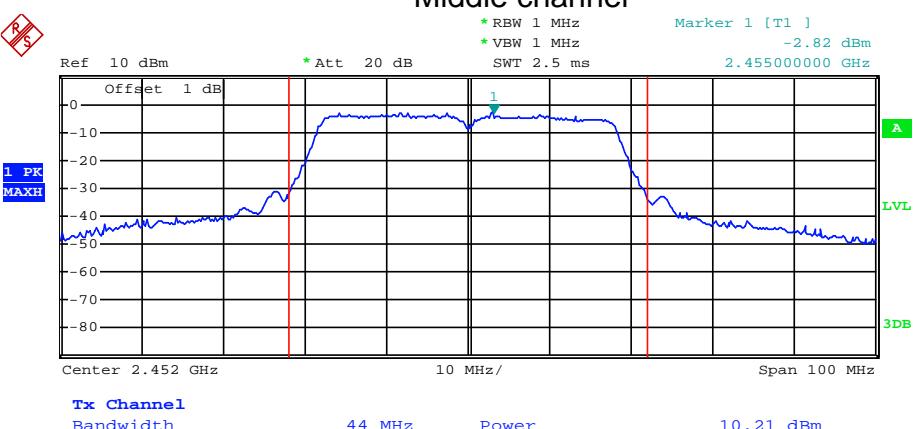
## 802.11n(H40)



## Lowest channel

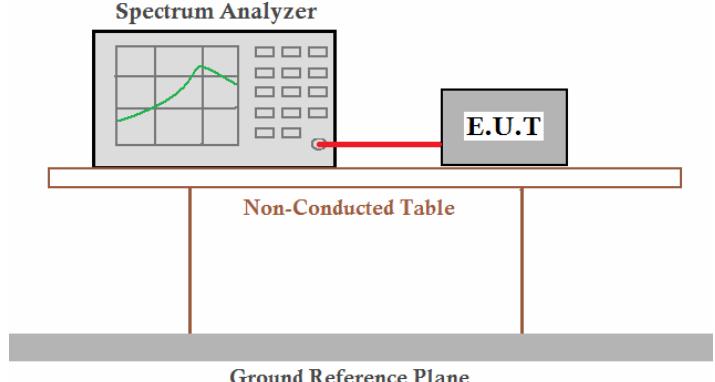


## Middle channel



## Highest channel

## 6.4 6dB Occupy Bandwidth

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

### Measurement Data

Test CH	6dB Occupy Bandwidth (MHz)				Limit(KMHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	8.56	15.72	16.40	35.70	>500	Pass
Middle	9.68	15.72	16.36	35.70		
Highest	9.24	15.72	16.04	36.00		

Test plot as follows:

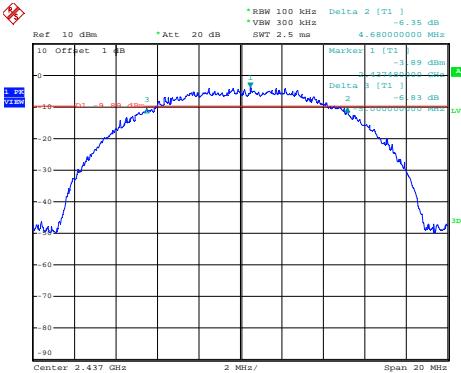
Test mode:

802.11b



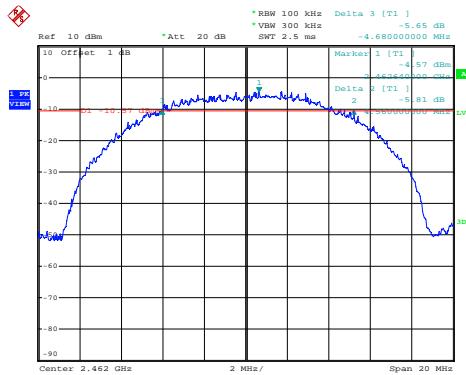
Date: 7.NOV.2011 07:02:22

## Lowest channel



Date: 7.NOV.2011 07:10:13

## Middle channel



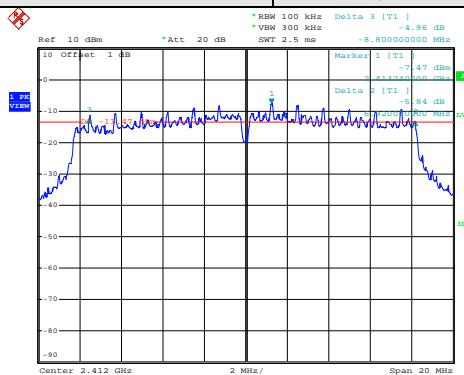
Date: 7.NOV.2011 09:25:26

## Highest channel

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

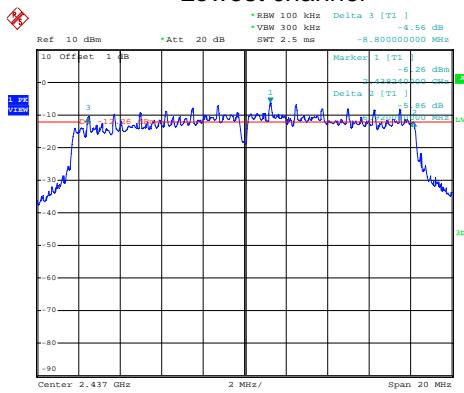
Test mode:

802.11g



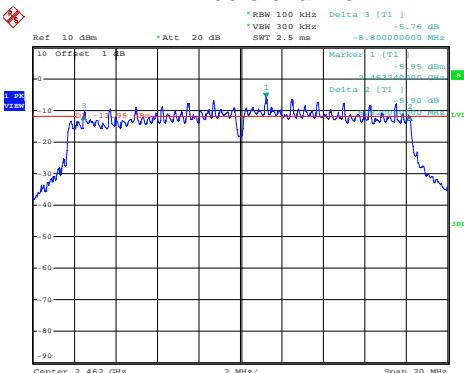
Date: 7.NOV.2011 09:33:03

## Lowest channel



Date: 7.NOV.2011 09:41:31

## Middle channel

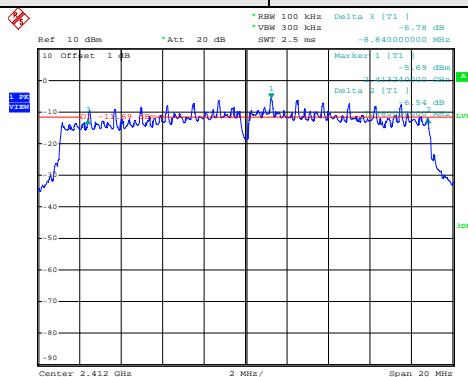


Date: 7.NOV.2011 09:46:55

## Highest channel

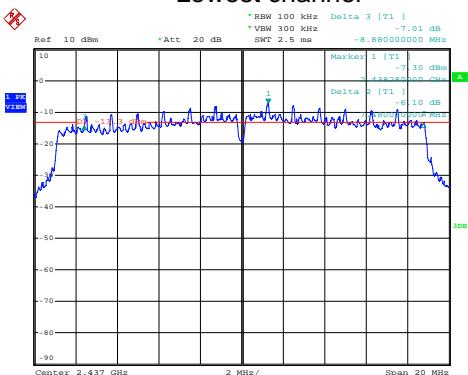
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test mode: 802.11n(H20)



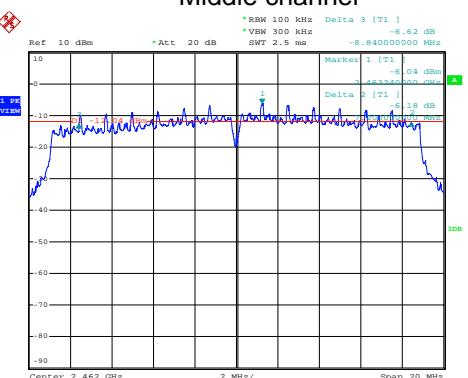
Date: 7.NOV.2011 09:51:05

### Lowest channel



Date: 7.NOV.2011 10:05:04

### Middle channel



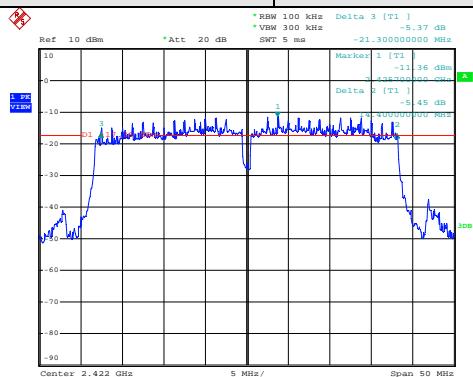
Date: 7.NOV.2011 10:09:31

### Highest channel

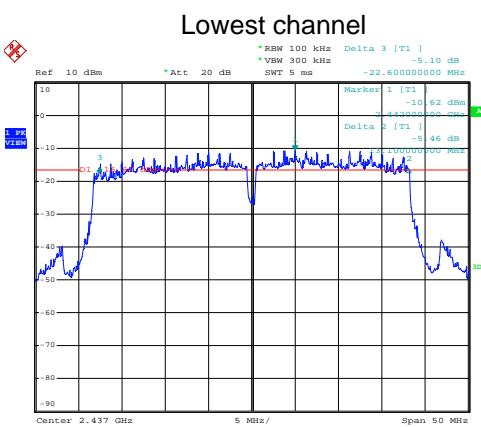
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test mode:

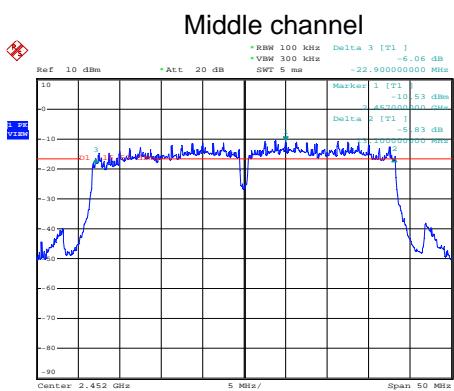
802.11n(H40)



Date: 7.NOV.2011 10:18:22



Date: 7.NOV.2011 10:26:09

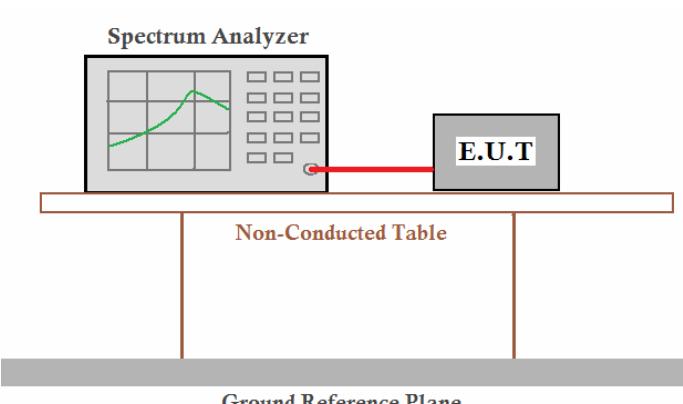


Date: 7.NOV.2011 10:31:10

Highest channel

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## 6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	8dBm
Test setup:	 <p>The diagram illustrates the test setup. A 'Spectrum Analyzer' is connected to a 'Non-Conducted Table'. On the table, there is a 'E.U.T' (Equipment Under Test). The table is positioned above a 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Transmitting mode
Test results:	Passed

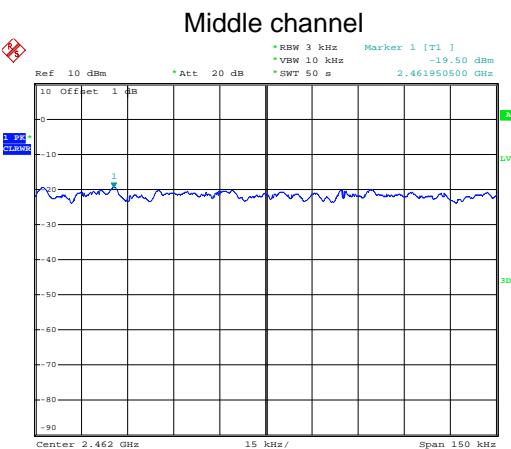
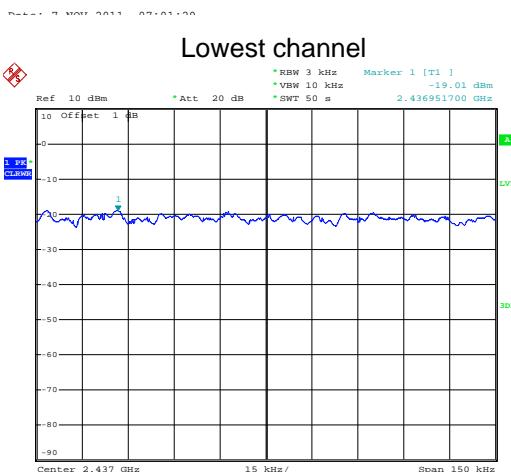
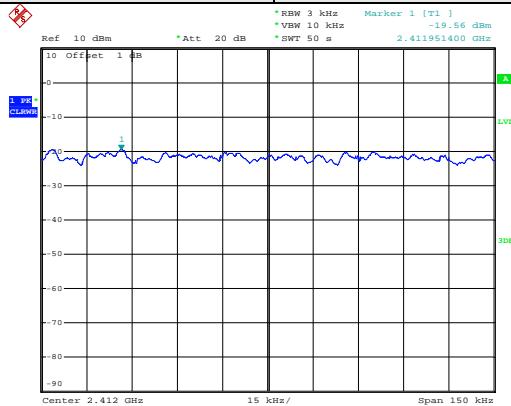
### Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-19.56	-24.63	-22.93	-27.39	8.00	Pass
Middle	-19.01	-23.11	-25.34	-25.80		
Highest	-19.50	-22.77	-22.42	-26.79		

Test plot as follows:

Test mode:

802.11b

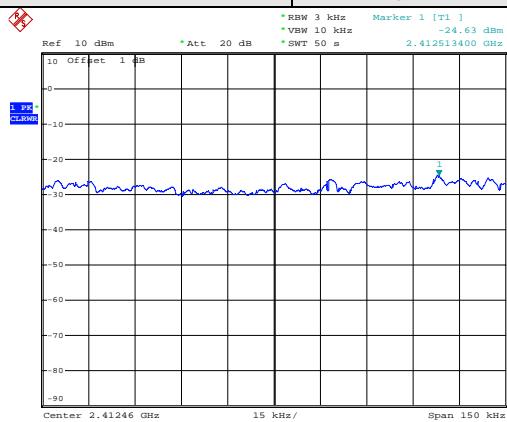


Highest channel

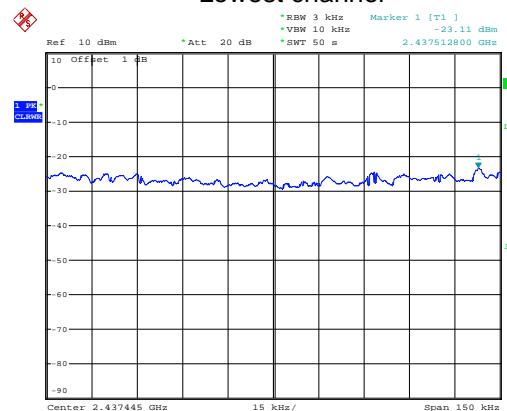
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test mode:

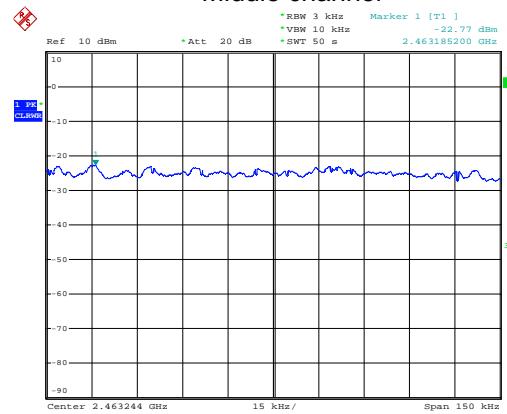
802.11g



## Lowest channel



## Middle channel

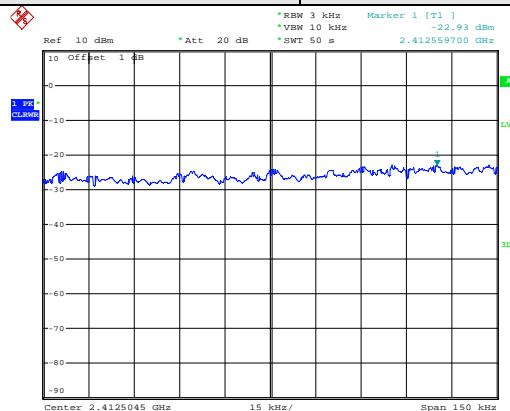


## Highest channel

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test mode:

802.11n(H20)



Test mode: 802.11n(H40)

Lowest channel

Middle channel

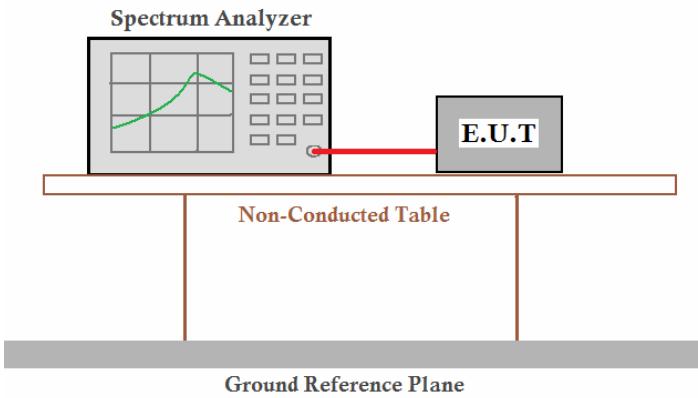
Highest channel

Legend: Ref 10 dBm, \*Att 20 dB, \*RBW 3 kHz, \*VBW 10 kHz, \*SWT 50 s, Marker 1 [T1], 2.426976000 GHz

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

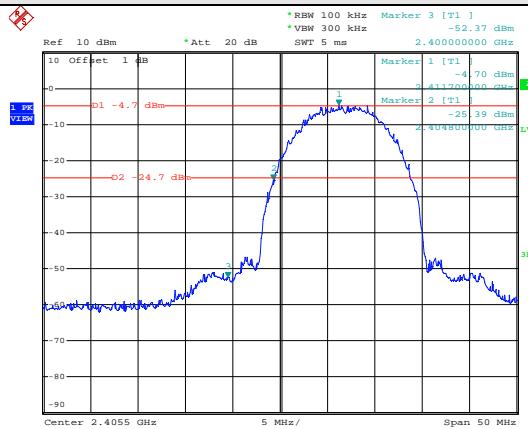
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Transmitting mode
Test results:	Passed

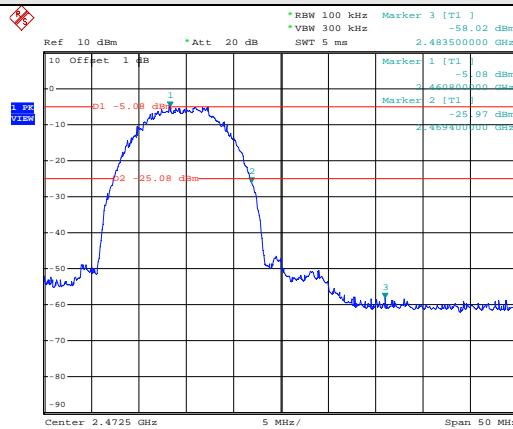
Test plot as follows:

Test mode:



Date: 7.NOV.2011 07:04:01

802.11b

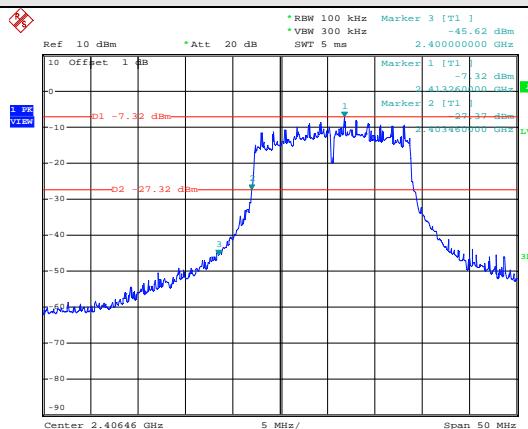


Date: 7.NOV.2011 09:27:54

## Lowest channel

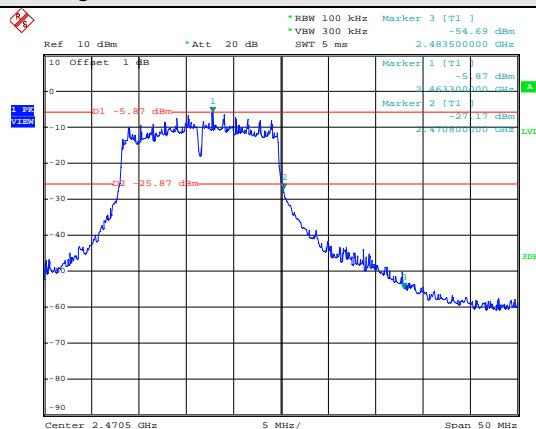
## Highest channel

Test mode:



Date: 7.NOV.2011 09:35:33

802.11g



Date: 7.NOV.2011 09:47:58

## Lowest channel

## Highest channel

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

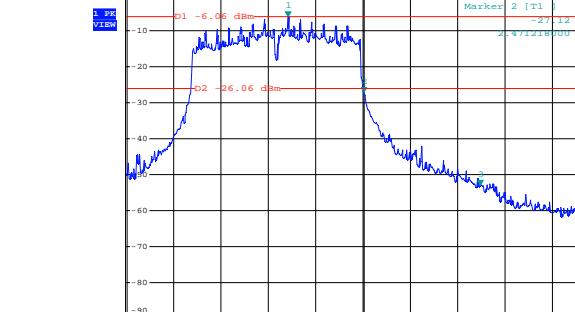
**Test mode:** 802.11n(H20)



Date: 7.NOV.2011 09:54:40

**Lowest channel**

**Test mode:** 802.11n(H20)

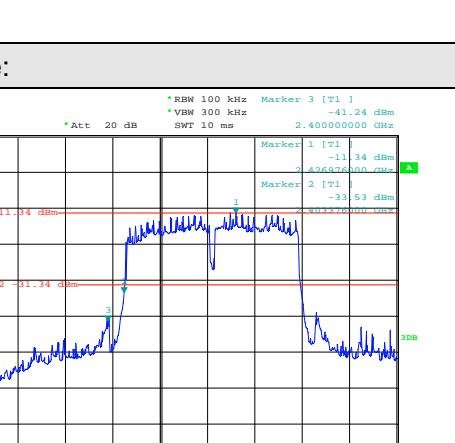


Date: 7.NOV.2011 10:13:34

**Highest channel**

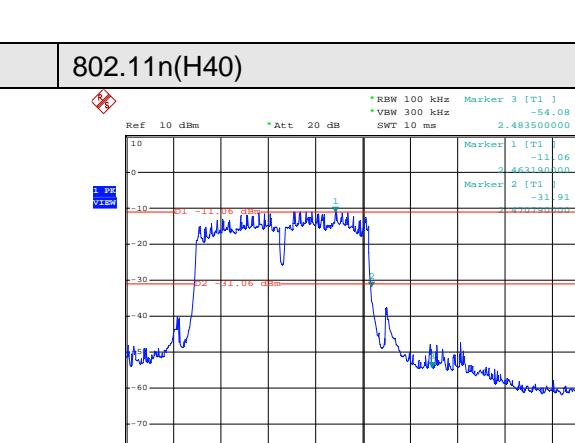
**Test mode:** 802.11n(H40)



Date: 7.NOV.2011 10:22:48

**Lowest channel**

**Test mode:** 802.11n(H40)

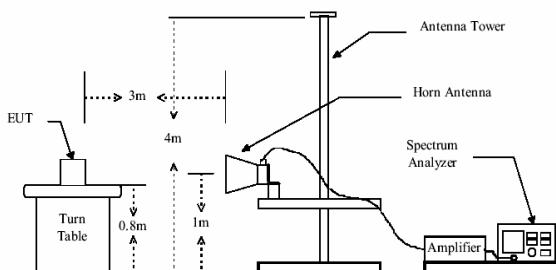


Date: 7.NOV.2011 10:34:07

**Highest channel**

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																			
Test Method:	ANSI C63.4: 2009																			
Test Frequency Range:	2.3GHz to 2.5GHz																			
Test site:	Measurement Distance: 3m																			
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td></td> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value		Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark																
Above 1GHz	Peak	1MHz	3MHz	Peak Value																
	Peak	1MHz	10Hz	Average Value																
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Above 1GHz</td> <td>54.00</td> <td>Average Value</td> </tr> <tr> <td></td> <td>74.00</td> <td>Peak Value</td> </tr> </tbody> </table>					Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.00	Average Value		74.00	Peak Value						
Frequency	Limit (dBuV/m @3m)	Remark																		
Above 1GHz	54.00	Average Value																		
	74.00	Peak Value																		
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>All restriction band have been scanned, only the worse case is reported.</li> <li>the lowest, middle, highest channel these 3 channel all have been tested and only Low channel and High channel is the worse case to reported</li> </ol>																			
Test setup:																				

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test Instruments:	Refer to section 5.7 for details							
Test mode:	Transmitting mode							
Test results:	Passed							

**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	
2390.00	48.14	27.59	3.33	30.10	48.96	74.00	-25.04	Vertical	
2400.00	52.27	27.58	3.37	30.10	53.12	74.00	-20.88	Vertical	
2390.00	48.97	27.59	3.33	30.10	49.79	74.00	-24.21	Horizontal	
2400.00	53.16	27.58	3.37	30.10	54.01	74.00	-19.99	Horizontal	

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	
2390.00	31.78	27.59	3.33	30.10	32.60	54.00	-21.40	Vertical	
2400.00	35.26	27.58	3.37	30.10	36.11	54.00	-17.89	Vertical	
2390.00	32.61	27.59	3.33	30.10	33.43	54.00	-20.57	Horizontal	
2400.00	36.15	27.58	3.37	30.10	37.00	54.00	-17.00	Horizontal	

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	
2483.50	52.55	27.53	3.49	29.93	53.64	74.00	-20.36	Vertical	
2500.00	48.68	27.55	3.52	30.70	49.05	74.00	-24.95	Vertical	
2483.50	53.54	27.53	3.49	29.93	54.63	74.00	-19.37	Horizontal	
2500.00	49.56	27.55	3.52	30.70	49.93	74.00	-24.07	Horizontal	

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	
2483.50	35.54	27.53	3.49	29.93	36.63	54.00	-17.37	Vertical	
2500.00	30.94	27.55	3.52	30.70	31.31	54.00	-22.69	Vertical	
2483.50	36.42	27.53	3.49	29.93	37.51	54.00	-16.49	Horizontal	
2500.00	31.93	27.55	3.52	30.70	32.30	54.00	-21.70	Horizontal	

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

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			
2390.00	46.59	27.59	3.33	30.10	47.41	74.00	-26.59	Vertical			
2400.00	50.65	27.58	3.37	30.10	51.50	74.00	-22.50	Vertical			
2390.00	47.61	27.59	3.33	30.10	48.43	74.00	-25.57	Horizontal			
2400.00	51.76	27.58	3.37	30.10	52.61	74.00	-21.39	Horizontal			

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			
2390.00	31.85	27.59	3.33	30.10	32.67	54.00	-21.33	Vertical			
2400.00	35.74	27.58	3.37	30.10	36.59	54.00	-17.41	Vertical			
2390.00	33.31	27.59	3.33	30.10	34.13	54.00	-19.87	Horizontal			
2400.00	37.38	27.58	3.37	30.10	38.23	54.00	-15.77	Horizontal			

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			
2483.50	51.34	27.53	3.49	29.93	52.43	74.00	-21.57	Vertical			
2500.00	47.42	27.55	3.52	30.70	47.79	74.00	-26.21	Vertical			
2483.50	52.43	27.53	3.49	29.93	53.52	74.00	-20.48	Horizontal			
2500.00	48.50	27.55	3.52	30.70	48.87	74.00	-25.13	Horizontal			

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			
2483.50	36.96	27.53	3.49	29.93	38.05	54.00	-15.95	Vertical			
2500.00	32.67	27.55	3.52	30.70	33.04	54.00	-20.96	Vertical			
2483.50	36.75	27.53	3.49	29.93	37.84	54.00	-16.16	Horizontal			
2500.00	32.64	27.55	3.52	30.70	33.01	54.00	-20.99	Horizontal			

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			
2390.00	44.27	27.59	3.33	30.10	45.09	74.00	-28.91	Vertical			
2400.00	46.23	27.58	3.37	30.10	47.08	74.00	-26.92	Vertical			
2390.00	47.77	27.59	3.33	30.10	48.59	74.00	-25.41	Horizontal			
2400.00	52.30	27.58	3.37	30.10	53.15	74.00	-20.85	Horizontal			

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			
2390.00	34.06	27.59	3.33	30.10	34.88	54.00	-19.12	Vertical			
2400.00	37.97	27.58	3.37	30.10	38.82	54.00	-15.18	Vertical			
2390.00	33.10	27.59	3.33	30.10	33.92	54.00	-20.08	Horizontal			
2400.00	33.25	27.58	3.37	30.10	34.10	54.00	-19.90	Horizontal			

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			
2483.50	46.83	27.53	3.49	29.93	47.92	74.00	-26.08	Vertical			
2500.00	44.05	27.55	3.52	30.70	44.42	74.00	-29.58	Vertical			
2483.50	52.49	27.53	3.49	29.93	53.58	74.00	-20.42	Horizontal			
2500.00	48.53	27.55	3.52	30.70	48.90	74.00	-25.10	Horizontal			

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			
2483.50	38.14	27.53	3.49	29.93	39.23	54.00	-14.77	Vertical			
2500.00	36.63	27.55	3.52	30.70	37.00	54.00	-17.00	Vertical			
2483.50	35.77	27.53	3.49	29.93	36.86	54.00	-17.14	Horizontal			
2500.00	31.54	27.55	3.52	30.70	31.91	54.00	-22.09	Horizontal			

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	47.74	27.59	3.33	30.10	48.56	74.00	-25.44	Vertical			
2400.00	50.62	27.58	3.37	30.10	51.47	74.00	-22.53	Vertical			
2390.00	48.76	27.59	3.33	30.10	49.58	74.00	-24.42	Horizontal			
2400.00	51.73	27.58	3.37	30.10	52.58	74.00	-21.42	Horizontal			

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	31.01	27.59	3.33	30.10	31.83	54.00	-22.17	Vertical			
2400.00	36.20	27.58	3.37	30.10	37.05	54.00	-16.95	Vertical			
2390.00	31.37	27.59	3.33	30.10	32.19	54.00	-21.81	Horizontal			
2400.00	36.64	27.58	3.37	30.10	37.49	54.00	-16.51	Horizontal			

Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	49.75	27.53	3.49	29.93	50.84	74.00	-23.16	Vertical			
2500.00	46.31	27.55	3.52	30.70	46.68	74.00	-27.32	Vertical			
2483.50	50.83	27.53	3.49	29.93	51.92	74.00	-22.08	Horizontal			
2500.00	47.40	27.55	3.52	30.70	47.77	74.00	-26.23	Horizontal			

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

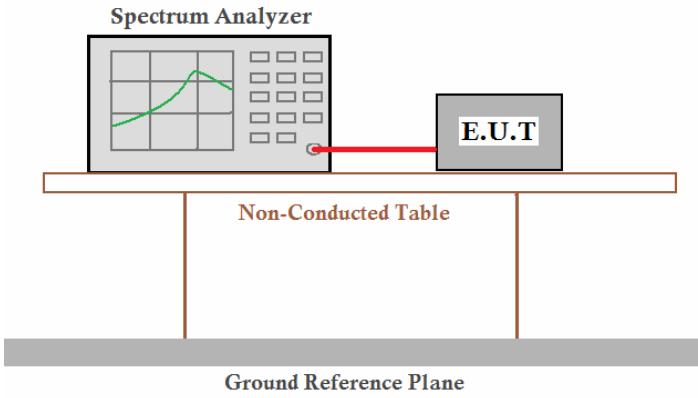
## Remark:

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

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebtek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebtek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

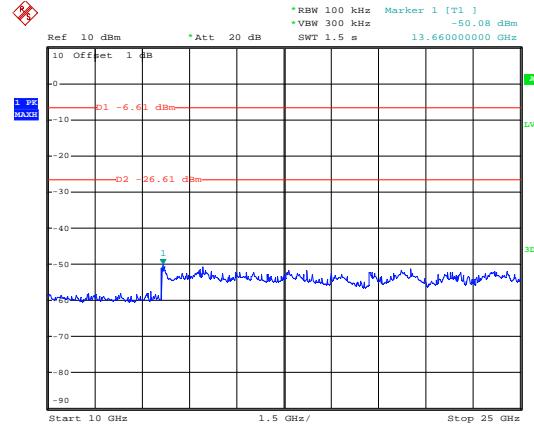
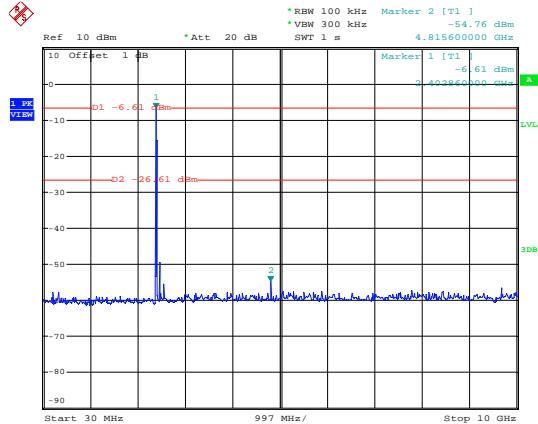
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Transmitting mode
Test results:	Passed

Test plot as follows:

Test mode:

802.11b

Lowest channel



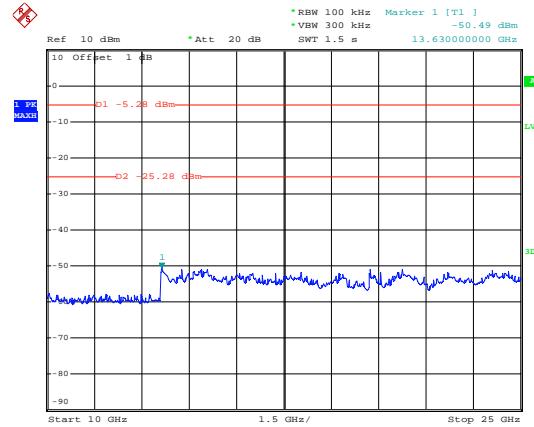
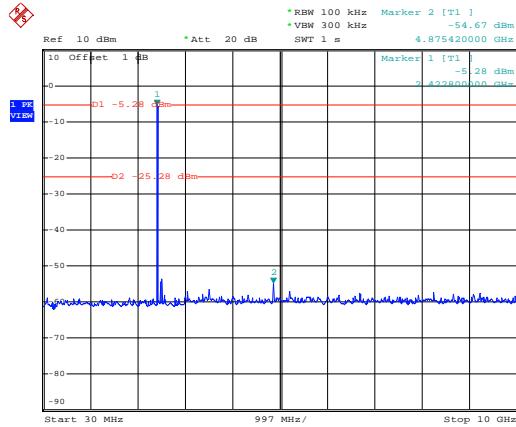
Date: 7.NOV.2011 07:06:18

Date: 7.NOV.2011 07:06:35

30MHz~10GHz

10GHz~25GHz

Middle channel



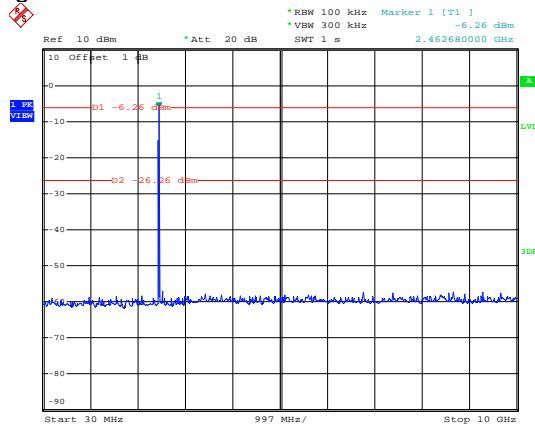
Date: 7.NOV.2011 07:12:56

Date: 7.NOV.2011 07:13:15

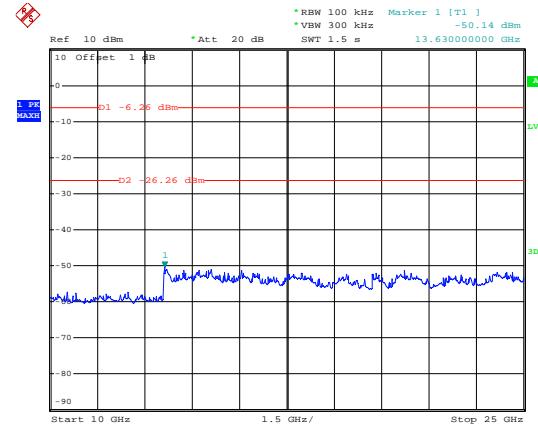
30MHz~10GHz

10GHz~25GHz

## Highest channel



Date: 7.NOV.2011 09:28:39



Date: 7.NOV.2011 09:28:56

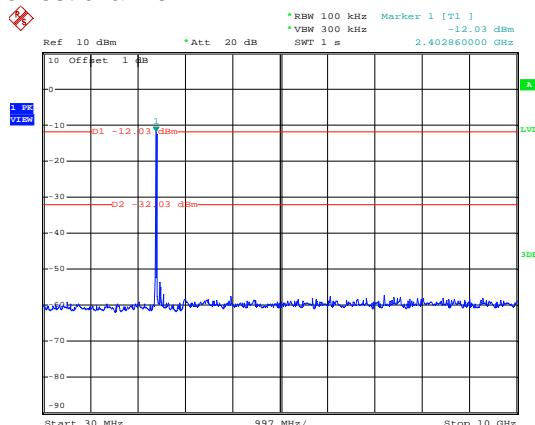
30MHz~10GHz

10GHz~25GHz

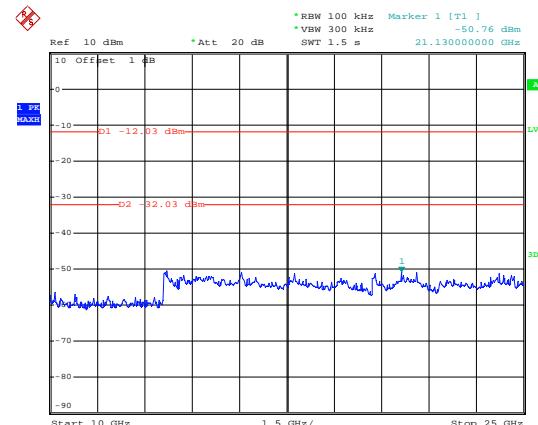
Test mode:

802.11g

## Lowest channel



Date: 7.NOV.2011 09:39:37

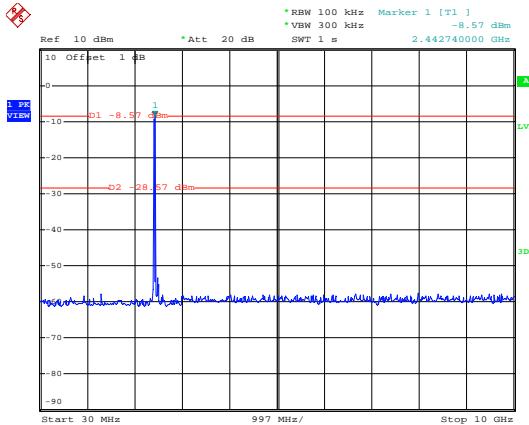


Date: 7.NOV.2011 09:39:56

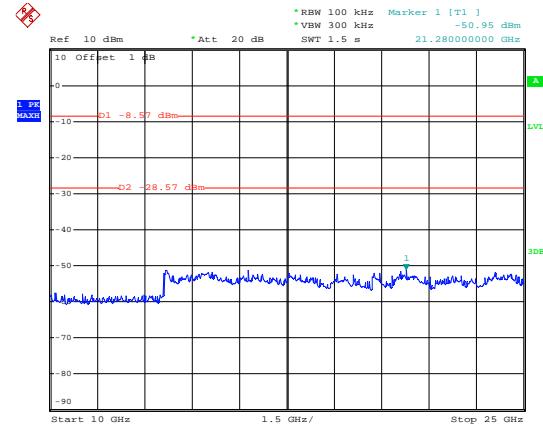
30MHz~10GHz

10GHz~25GHz

## Middle channel

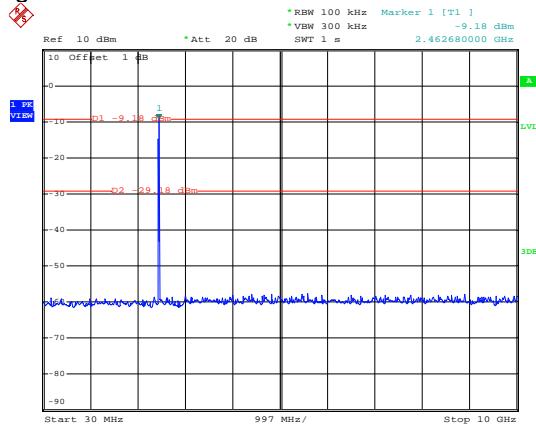


Date: 7.NOV.2011 09:45:06

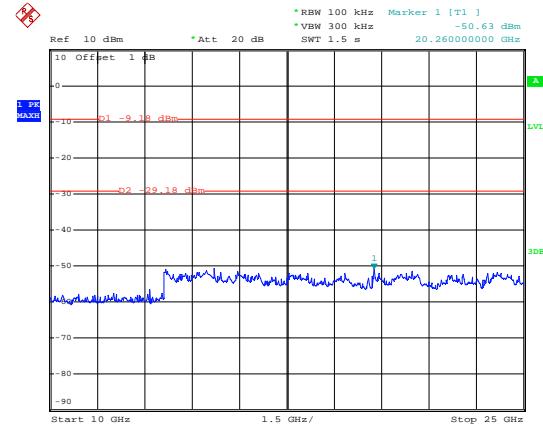


Date: 7.NOV.2011 09:45:22

## Highest channel



Date: 7.NOV.2011 09:48:41



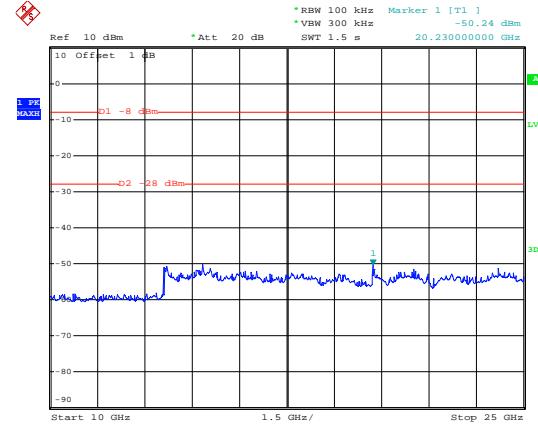
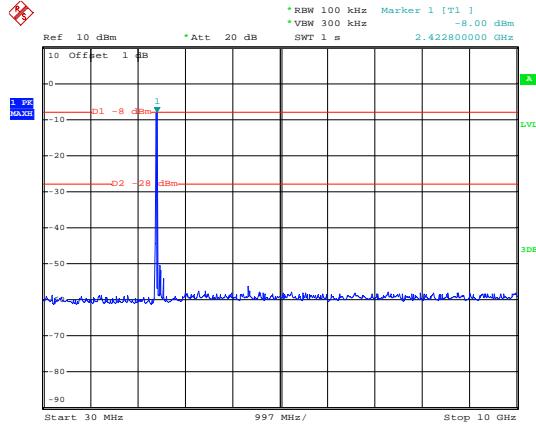
Date: 7.NOV.2011 09:48:56

## 30MHz~10GHz

## 10GHz~25GHz

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

## Lowest channel



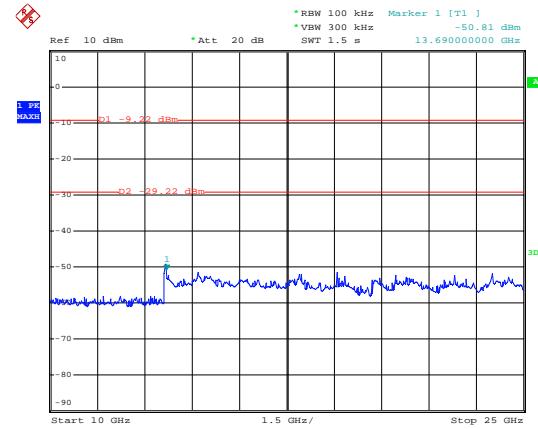
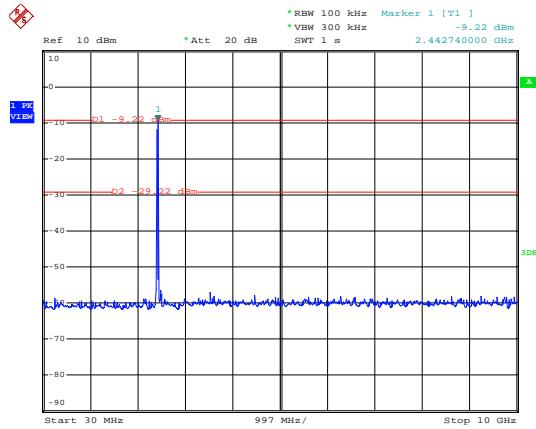
Date: 7.NOV.2011 09:55:18

Date: 7.NOV.2011 09:55:34

## 30MHz~10GHz

## 10GHz~25GHz

## Middle channel



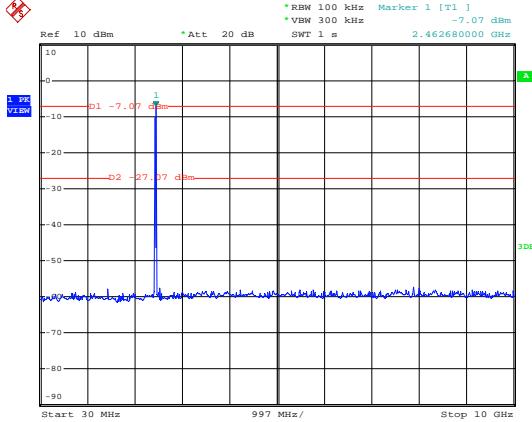
Date: 7.NOV.2011 10:07:29

Date: 7.NOV.2011 10:07:45

## 30MHz~10GHz

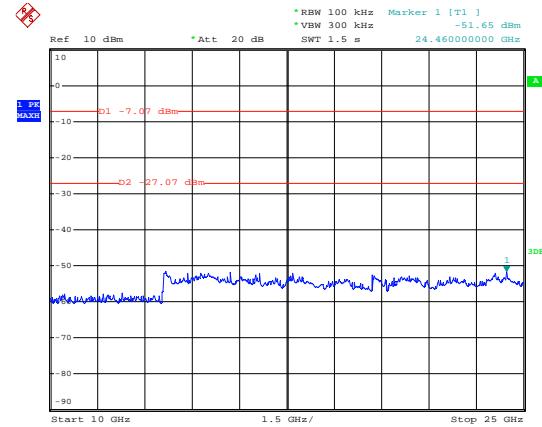
## 10GHz~25GHz

## Highest channel



Date: 7.NOV.2011 10:14:39

30MHz~10GHz



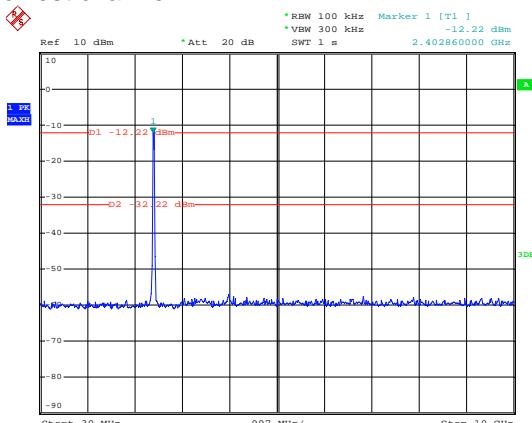
Date: 7.NOV.2011 10:15:03

10GHz~25GHz

Test mode:

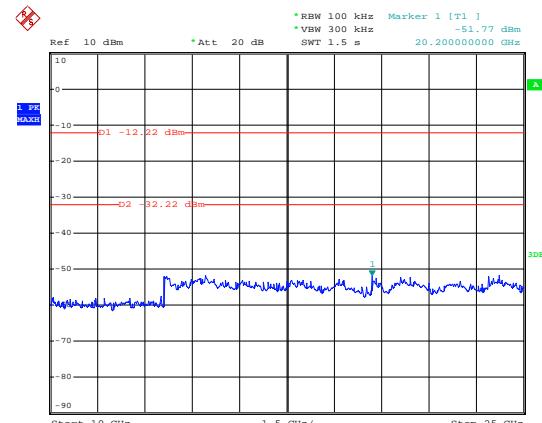
802.11n(H40)

## Lowest channel



Date: 7.NOV.2011 10:24:05

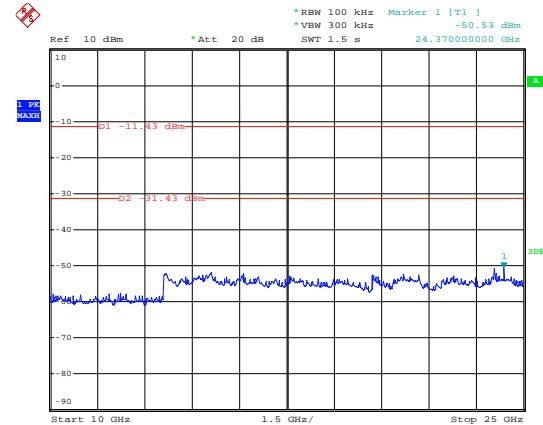
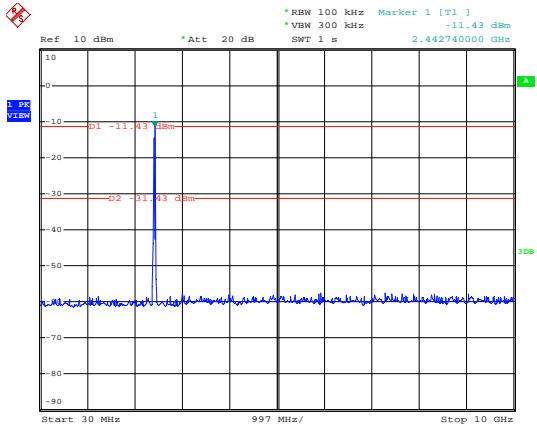
30MHz~10GHz



Date: 7.NOV.2011 10:24:21

10GHz~25GHz

## Middle channel



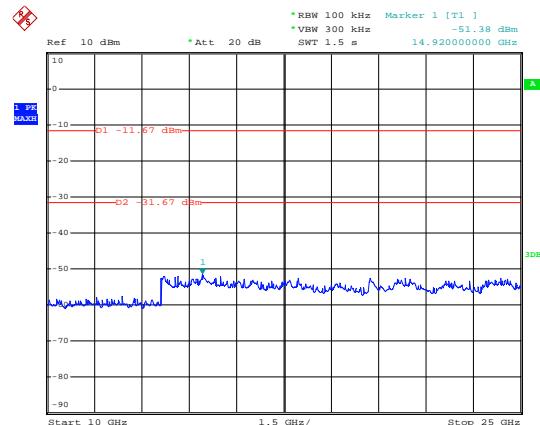
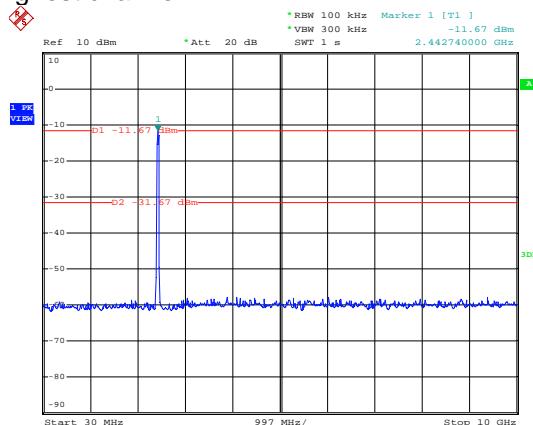
Date: 7.NOV.2011 10:29:01

Date: 7.NOV.2011 10:29:19

## 30MHz~10GHz

## 10GHz~25GHz

## Highest channel



Date: 7.NOV.2011 10:34:51

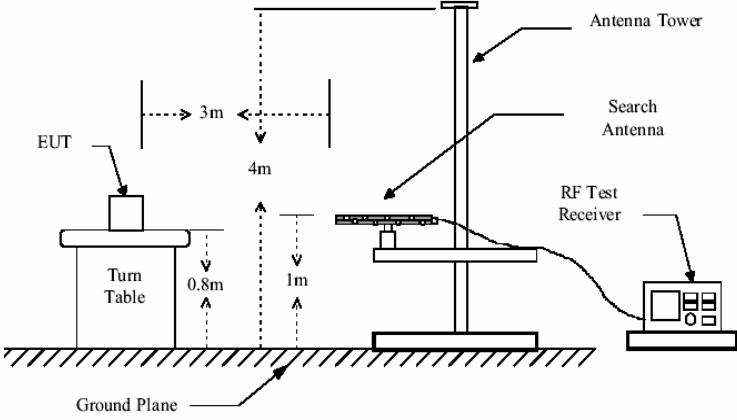
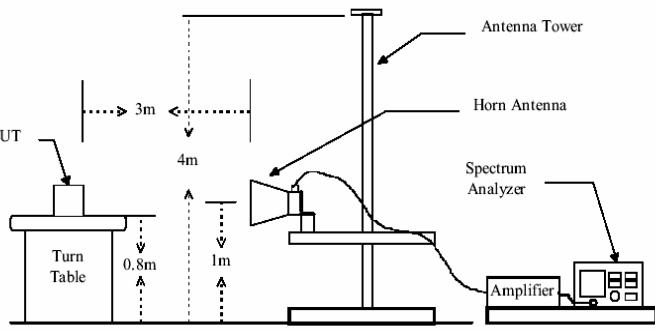
Date: 7.NOV.2011 10:35:07

## 30MHz~10GHz

## 10GHz~25GHz

### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																									
Test Method:	ANSI C63.4:2009																									
Test Frequency Range:	30MHz to 25GHz																									
Test site:	Measurement Distance: 3m																									
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td></td> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value		Average	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																						
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value																						
Above 1GHz	Peak	1MHz	3MHz	Peak Value																						
	Average	1MHz	10Hz	Average Value																						
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.00</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.50</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.00</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.00</td> <td>Quasi-peak Value</td> </tr> <tr> <td>Above 1GHz</td> <td>54.00</td> <td>Average Value</td> </tr> <tr> <td></td> <td>74.00</td> <td>Peak Value</td> </tr> </tbody> </table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.00	Quasi-peak Value	88MHz-216MHz	43.50	Quasi-peak Value	216MHz-960MHz	46.00	Quasi-peak Value	960MHz-1GHz	54.00	Quasi-peak Value	Above 1GHz	54.00	Average Value		74.00	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																								
30MHz-88MHz	40.00	Quasi-peak Value																								
88MHz-216MHz	43.50	Quasi-peak Value																								
216MHz-960MHz	46.00	Quasi-peak Value																								
960MHz-1GHz	54.00	Quasi-peak Value																								
Above 1GHz	54.00	Average Value																								
	74.00	Peak Value																								
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>																									

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

## 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
44.90	50.06	15.76	0.29	32.08	34.03	40.00	-5.97	Vertical
121.98	58.63	10.20	0.54	31.83	37.54	43.50	-5.96	Vertical
135.03	59.59	8.56	0.58	31.89	36.84	43.50	-6.66	Vertical
178.76	57.40	9.63	0.67	32.15	35.55	43.50	-7.95	Vertical
190.41	56.76	10.43	0.68	32.20	35.67	43.50	-7.83	Vertical
210.05	50.84	10.88	0.75	32.27	30.20	43.50	-13.30	Vertical
44.12	45.10	15.64	0.29	32.08	28.95	40.00	-11.05	Horizontal
119.86	54.49	10.49	0.54	31.81	33.71	43.50	-9.79	Horizontal
134.56	62.78	8.56	0.57	31.89	40.02	43.50	-3.48	Horizontal
180.02	57.31	9.69	0.67	32.15	35.52	43.50	-7.98	Horizontal
190.41	58.28	10.43	0.68	32.20	37.19	43.50	-6.31	Horizontal
211.53	61.76	10.94	0.76	32.27	41.19	43.50	-2.31	Horizontal

## Above 1GHz

Test mode:	802.11b	Test channel:	Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.64	31.54	5.87	34.55	43.50	74.00	-30.50	Vertical
7236.00	40.27	36.50	7.10	36.11	47.76	74.00	-26.24	Vertical
9648.00	39.40	38.25	9.03	35.97	50.71	74.00	-23.29	Vertical
12060.00	38.94	39.33	10.15	35.93	52.49	74.00	-21.51	Vertical
14472.00	*					74.00		Vertical
4824.00	41.60	31.54	5.87	34.55	44.46	74.00	-29.54	Horizontal
7236.00	38.55	36.49	7.10	36.12	46.02	74.00	-27.98	Horizontal
9648.00	38.49	38.12	9.01	35.88	49.74	74.00	-24.26	Horizontal
12060.00	38.06	39.33	10.15	35.93	51.61	74.00	-22.39	Horizontal
14472.00	*					74.00		Horizontal

Test mode:	802.11b	Test channel:	Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	33.66	31.54	5.87	34.55	36.52	54.00	-17.48	Vertical
7236.00	33.32	36.50	7.10	36.11	40.81	54.00	-13.19	Vertical
9648.00	32.52	38.25	9.03	35.97	43.83	54.00	-10.17	Vertical
12060.00	32.48	39.33	10.15	35.93	46.03	54.00	-7.97	Vertical
14472.00	*					54.00		Vertical
4824.00	34.84	31.54	5.87	34.55	37.70	54.00	-16.30	Horizontal
7236.00	31.53	36.49	7.10	36.12	39.00	54.00	-15.00	Horizontal
9648.00	32.47	38.12	9.01	35.88	43.72	54.00	-10.28	Horizontal
12060.00	31.52	39.33	10.15	35.93	45.07	54.00	-8.93	Horizontal
14472.00	*					54.00		Horizontal

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	37.59	31.57	5.91	34.65	40.42	74.00	-33.58	Vertical			
7311	39.11	36.48	7.14	36.14	46.59	74.00	-27.41	Vertical			
9748	38.78	38.64	9.08	36.35	50.15	74.00	-23.85	Vertical			
12185	38.69	39.35	10.15	35.98	52.21	74.00	-21.79	Vertical			
14622	*					74.00		Vertical			
4874	40.28	31.57	5.91	34.65	43.11	74.00	-30.89	Horizontal			
7311	37.70	36.47	7.14	36.14	45.17	74.00	-28.83	Horizontal			
9748	38.21	38.45	9.06	36.24	49.48	74.00	-24.52	Horizontal			
12185	38.66	39.32	10.21	36.25	51.94	74.00	-22.06	Horizontal			
14622	*					74.00		Horizontal			

Test mode:		802.11b		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	31.02	31.57	5.91	34.65	33.85	54.00	-20.15	Vertical			
7311	31.89	36.48	7.14	36.14	39.37	54.00	-14.63	Vertical			
9748	33.04	38.64	9.08	36.35	44.41	54.00	-9.59	Vertical			
12185	32.93	39.35	10.15	35.98	46.45	54.00	-7.55	Vertical			
14622	*					54.00		Vertical			
4874	33.60	31.57	5.91	34.65	36.43	54.00	-17.57	Horizontal			
7311	30.75	36.47	7.14	36.14	38.22	54.00	-15.78	Horizontal			
9748	31.52	38.45	9.06	36.24	42.79	54.00	-11.21	Horizontal			
12185	31.49	39.32	10.21	36.25	44.77	54.00	-9.23	Horizontal			
14622	*					54.00		Horizontal			

Test mode:		802.11b		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924	38.37	31.64	5.95	34.79	41.17	74.00	-32.83	Vertical			
7386	38.41	36.49	7.16	36.16	45.90	74.00	-28.10	Vertical			
9848	39.28	38.69	9.11	36.53	50.55	74.00	-23.45	Vertical			
12310	39.41	39.00	10.32	36.61	52.12	74.00	-21.88	Vertical			
14772	*					74.00		Vertical			
4924	39.71	31.74	5.97	34.86	42.56	74.00	-31.44	Horizontal			
7386	38.12	36.50	7.10	36.11	45.61	74.00	-28.39	Horizontal			
9848	38.60	38.67	9.08	36.47	49.88	74.00	-24.12	Horizontal			
12310	39.69	39.00	10.32	36.61	52.40	74.00	-21.60	Horizontal			
14772	*					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			
4944	32.79	31.64	5.95	34.79	35.59	54.00	-18.41	Vertical			
7416	31.90	36.49	7.16	36.16	39.39	54.00	-14.61	Vertical			
9888	34.03	38.69	9.11	36.53	45.30	54.00	-8.70	Vertical			
12360	32.64	39.00	10.32	36.61	45.35	54.00	-8.65	Vertical			
14832	*					54.00		Vertical			
4944	32.71	31.74	5.97	34.86	35.56	54.00	-18.44	Horizontal			
7416	32.51	36.50	7.10	36.11	40.00	54.00	-14.00	Horizontal			
9888	31.57	38.67	9.08	36.47	42.85	54.00	-11.15	Horizontal			
12360	32.55	39.00	10.32	36.61	45.26	54.00	-8.74	Horizontal			
14832	*					54.00		Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	37.82	31.55	5.89	34.58	40.68	74.00	-33.32	Vertical			
7236.00	37.99	36.50	7.10	36.11	45.48	74.00	-28.52	Vertical			
9648.00	38.34	38.12	9.01	35.90	49.57	74.00	-24.43	Vertical			
12060.00	38.10	39.33	10.15	35.93	51.65	74.00	-22.35	Vertical			
14472.00	*					74.00		Vertical			
4824.00	37.24	31.55	5.89	34.58	40.10	74.00	-33.90	Horizontal			
7236.00	38.13	36.47	7.10	36.11	45.59	74.00	-28.41	Horizontal			
9648.00	37.48	38.25	9.03	35.97	48.79	74.00	-25.21	Horizontal			
12060.00	38.05	39.35	10.15	35.98	51.57	74.00	-22.43	Horizontal			
14472.00	*					74.00		Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	30.62	31.55	5.89	34.58	33.48	54.00	-20.52	Vertical			
7236.00	30.82	36.50	7.10	36.11	38.31	54.00	-15.69	Vertical			
9648.00	31.83	38.12	9.01	35.90	43.06	54.00	-10.94	Vertical			
12060.00	30.79	39.33	10.15	35.93	44.34	54.00	-9.66	Vertical			
14472.00	*					54.00		Vertical			
4824.00	31.94	31.55	5.89	34.58	34.80	54.00	-19.20	Horizontal			
7236.00	31.91	36.47	7.10	36.11	39.37	54.00	-14.63	Horizontal			
9648.00	30.84	38.25	9.03	35.97	42.15	54.00	-11.85	Horizontal			
12060.00	30.52	39.35	10.15	35.98	44.04	54.00	-9.96	Horizontal			
14472.00	*					54.00		Horizontal			

Test mode:		802.11g		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	37.01	31.56	5.89	34.58	39.88	74.00	-34.12			Vertical	
7311	37.52	36.47	7.14	36.14	44.99	74.00	-29.01			Vertical	
9748	37.61	38.45	9.06	36.24	48.88	74.00	-25.12			Vertical	
12185	38.13	39.32	10.21	36.25	51.41	74.00	-22.59			Vertical	
14622	*					74.00				Vertical	
4874	36.84	31.56	5.89	34.58	39.71	74.00	-34.29			Horizontal	
7311	37.66	36.48	7.14	36.14	45.14	74.00	-28.86			Horizontal	
9748	38.42	38.45	9.06	36.18	49.75	74.00	-24.25			Horizontal	
12185	37.38	39.32	10.21	36.25	50.66	74.00	-23.34			Horizontal	
14622	*					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	30.67	31.56	5.89	34.58	33.54	54.00	-20.46			Vertical	
7311	31.23	36.47	7.14	36.14	38.70	54.00	-15.30			Vertical	
9748	31.94	38.45	9.06	36.24	43.21	54.00	-10.79			Vertical	
12185	30.97	39.32	10.21	36.25	44.25	54.00	-9.75			Vertical	
14622	*					54.00				Vertical	
4874	30.01	31.56	5.89	34.58	32.88	54.00	-21.12			Horizontal	
7311	31.34	36.48	7.14	36.14	38.82	54.00	-15.18			Horizontal	
9748	31.95	38.45	9.06	36.18	43.28	54.00	-10.72			Horizontal	
12185	30.89	39.32	10.21	36.25	44.17	54.00	-9.83			Horizontal	
14622	*					54.00				Horizontal	

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924	36.84	31.61	5.93	34.76	39.62	74.00	-34.38			Vertical	
7386	37.39	36.52	7.16	36.16	44.91	74.00	-29.09			Vertical	
9848	37.55	38.67	9.08	36.47	48.83	74.00	-25.17			Vertical	
12310	38.05	38.95	10.32	36.65	50.67	74.00	-23.33			Vertical	
14772	*					74.00				Vertical	
4924	37.05	31.64	5.95	34.79	39.85	74.00	-34.15			Horizontal	
7386	37.69	36.54	7.16	36.16	45.23	74.00	-28.77			Horizontal	
9848	37.29	38.69	9.11	36.53	48.56	74.00	-25.44			Horizontal	
12310	38.37	38.73	10.37	36.83	50.64	74.00	-23.36			Horizontal	
14772	*					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	29.96	31.61	5.93	34.76	32.74	54.00	-21.26	Vertical			
7386	30.79	36.52	7.16	36.16	38.31	54.00	-15.69	Vertical			
9848	30.23	38.67	9.08	36.47	41.51	54.00	-12.49	Vertical			
12310	31.47	38.95	10.32	36.65	44.09	54.00	-9.91	Vertical			
14772	*					54.00		Vertical			
4924	31.02	31.64	5.95	34.79	33.82	54.00	-20.18	Horizontal			
7386	31.35	36.54	7.16	36.16	38.89	54.00	-15.11	Horizontal			
9848	30.01	38.69	9.11	36.53	41.28	54.00	-12.72	Horizontal			
12310	30.96	38.73	10.37	36.83	43.23	54.00	-10.77	Horizontal			
14772	*					54.00		Horizontal			

Test mode:	802.11n(H20)		Test channel:		Lowest		Remark:		Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	38.03	31.85	6.00	34.92	40.96	74.00	-33.04	Vertical			
7236.00	38.87	36.50	7.10	36.11	46.36	74.00	-27.64	Vertical			
9648.00	38.07	38.12	9.01	35.88	49.32	74.00	-24.68	Vertical			
12060.00	36.75	39.35	10.15	35.98	50.27	74.00	-23.73	Vertical			
14472.00	*					74.00		Vertical			
4824.00	37.46	31.55	5.89	34.58	40.32	74.00	-33.68	Horizontal			
7236.00	38.68	36.50	7.10	36.11	46.17	74.00	-27.83	Horizontal			
9648.00	38.73	38.12	9.01	35.90	49.96	74.00	-24.04	Horizontal			
12060.00	37.97	39.35	10.15	35.98	51.49	74.00	-22.51	Horizontal			
14472.00	*					74.00		Horizontal			

Test mode:	802.11n(H20)		Test channel:		Lowest		Remark:		Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	31.91	31.85	6.00	34.92	34.84	54.00	-19.16	Vertical			
7236.00	32.28	36.50	7.10	36.11	39.77	54.00	-14.23	Vertical			
9648.00	31.06	38.12	9.01	35.88	42.31	54.00	-11.69	Vertical			
12060.00	28.84	39.35	10.15	35.98	42.36	54.00	-11.64	Vertical			
14472.00	*					54.00		Vertical			
4824.00	30.32	31.55	5.89	34.58	33.18	54.00	-20.82	Horizontal			
7236.00	32.35	36.50	7.10	36.11	39.84	54.00	-14.16	Horizontal			
9648.00	32.69	38.12	9.01	35.90	43.92	54.00	-10.08	Horizontal			
12060.00	31.31	39.35	10.15	35.98	44.83	54.00	-9.17	Horizontal			
14472.00	*					54.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	36.83	31.57	5.91	34.65	39.66	74.00	-34.34	Vertical			
7311	37.09	36.47	7.14	36.14	44.56	74.00	-29.44	Vertical			
9748	37.31	38.30	9.03	36.00	48.64	74.00	-25.36	Vertical			
12185	38.05	39.32	10.21	36.25	51.33	74.00	-22.67	Vertical			
14622	*					74.00		Vertical			
4874	41.22	31.79	5.97	34.90	44.08	74.00	-29.92	Horizontal			
7311	37.51	36.48	7.14	36.14	44.99	74.00	-29.01	Horizontal			
9748	38.58	38.45	9.06	36.24	49.85	74.00	-24.15	Horizontal			
12185	37.78	39.30	10.26	36.29	51.05	74.00	-22.95	Horizontal			
14622	*					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	30.47	31.57	5.91	34.65	33.30	54.00	-20.70	Vertical			
7311	29.98	36.47	7.14	36.14	37.45	54.00	-16.55	Vertical			
9748	31.02	38.30	9.03	36.00	42.35	54.00	-11.65	Vertical			
12185	30.89	39.32	10.21	36.25	44.17	54.00	-9.83	Vertical			
14622	*							Vertical			
4874	34.22	31.79	5.97	34.90	37.08	54.00	-16.92	Horizontal			
7311	30.88	36.48	7.14	36.14	38.36	54.00	-15.64	Horizontal			
9748	31.20	38.45	9.06	36.24	42.47	54.00	-11.53	Horizontal			
12185	30.91	39.30	10.26	36.29	44.18	54.00	-9.82	Horizontal			
14622	*							Horizontal			

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924	36.84	31.61	5.93	34.76	39.62	74.00	-34.38	Vertical			
7386	37.39	36.52	7.16	36.16	44.91	74.00	-29.09	Vertical			
9848	37.55	38.67	9.08	36.47	48.83	74.00	-25.17	Vertical			
12310	38.05	38.95	10.32	36.65	50.67	74.00	-23.33	Vertical			
14772	*							Vertical			
4924	37.05	31.64	5.95	34.79	39.85	74.00	-34.15	Horizontal			
7386	37.69	36.54	7.16	36.16	45.23	74.00	-28.77	Horizontal			
9848	37.29	38.69	9.11	36.53	48.56	74.00	-25.44	Horizontal			
12310	38.37	38.73	10.37	36.83	50.64	74.00	-23.36	Horizontal			
14772	*							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	29.96	31.61	5.93	34.76	32.74	54.00	-21.26	Vertical
7386	30.79	36.52	7.16	36.16	38.31	54.00	-15.69	Vertical
9848	30.23	38.67	9.08	36.47	41.51	54.00	-12.49	Vertical
12310	31.47	38.95	10.32	36.65	44.09	54.00	-9.91	Vertical
14772	*							Vertical
4924	31.02	31.64	5.95	34.79	33.82	54.00	-20.18	Horizontal
7386	31.35	36.54	7.16	36.16	38.89	54.00	-15.11	Horizontal
9848	30.01	38.69	9.11	36.53	41.28	54.00	-12.72	Horizontal
12310	30.96	38.73	10.37	36.83	43.23	54.00	-10.77	Horizontal
14772	*							Horizontal

Test mode:		802.11n(H40)	Test channel:		Lowest	Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	36.93	31.56	5.89	34.58	39.80	74.00	-34.20	Vertical
7266.00	37.31	36.49	7.10	36.12	44.78	74.00	-29.22	Vertical
9688.00	37.21	38.25	9.03	35.97	48.52	74.00	-25.48	Vertical
12110.00	37.42	39.34	10.21	36.11	50.86	74.00	-23.14	Vertical
14532.00	*					74.00		Vertical
4844.00	37.47	31.56	5.89	34.58	40.34	74.00	-33.66	Horizontal
7266.00	37.69	36.49	7.12	36.12	45.18	74.00	-28.82	Horizontal
9688.00	37.56	38.25	9.03	35.97	48.87	74.00	-25.13	Horizontal
12110.00	38.31	39.34	10.21	36.11	51.75	74.00	-22.25	Horizontal
14532.00	*					74.00		Horizontal

Test mode:		802.11n(H40)	Test channel:		Lowest	Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	30.01	31.56	5.89	34.58	32.88	54.00	-21.12	Vertical
7266.00	30.09	36.49	7.10	36.12	37.56	54.00	-16.44	Vertical
9688.00	28.91	38.25	9.03	35.97	40.22	54.00	-13.78	Vertical
12110.00	30.11	39.34	10.21	36.11	43.55	54.00	-10.45	Vertical
14532.00	*					54.00		Vertical
4844.00	31.44	31.56	5.89	34.58	34.31	54.00	-19.69	Horizontal
7266.00	31.38	36.49	7.12	36.12	38.87	54.00	-15.13	Horizontal
9688.00	31.09	38.25	9.03	35.97	42.40	54.00	-11.60	Horizontal
12110.00	31.11	39.34	10.21	36.11	44.55	54.00	-9.45	Horizontal
14532.00	*					54.00		Horizontal

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	36.90	31.57	5.91	34.65	39.73	74.00	-34.27	Vertical			
7311	37.09	36.48	7.14	36.14	44.57	74.00	-29.43	Vertical			
9748	37.36	38.40	9.06	36.12	48.70	74.00	-25.30	Vertical			
12185	37.54	39.30	10.26	36.29	50.81	74.00	-23.19	Vertical			
14622	*					74.00		Vertical			
4874	37.25	31.57	5.91	34.65	40.08	74.00	-33.92	Horizontal			
7311	36.96	36.48	7.14	36.14	44.44	74.00	-29.56	Horizontal			
9748	36.63	38.45	9.06	36.18	47.96	74.00	-26.04	Horizontal			
12185	37.09	39.30	10.26	36.29	50.36	74.00	-23.64	Horizontal			
14622	*					74.00		Horizontal			

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874	30.98	31.57	5.91	34.65	33.81	54.00	-20.19	Vertical			
7311	30.17	36.48	7.14	36.14	37.65	54.00	-16.35	Vertical			
9748	30.08	38.40	9.06	36.12	41.42	54.00	-12.58	Vertical			
12185	31.35	39.30	10.26	36.29	44.62	54.00	-9.38	Vertical			
14622	*					54.00		Vertical			
4874	30.10	31.57	5.91	34.65	32.93	54.00	-21.07	Horizontal			
7311	30.36	36.48	7.14	36.14	37.84	54.00	-16.16	Horizontal			
9748	29.07	38.45	9.06	36.18	40.40	54.00	-13.60	Horizontal			
12185	30.96	39.30	10.26	36.29	44.23	54.00	-9.77	Horizontal			
14622	*					54.00		Horizontal			

Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4904	36.42	31.61	5.93	34.76	39.20	74.00	-34.80	Vertical			
7356	38.09	36.54	7.16	36.16	45.63	74.00	-28.37	Vertical			
9808	36.82	38.67	9.08	36.41	48.16	74.00	-25.84	Vertical			
12260	37.05	39.16	10.26	36.47	50.00	74.00	-24.00	Vertical			
14712	*					74.00		Vertical			
4904	37.09	31.59	5.93	34.72	39.89	74.00	-34.11	Horizontal			
7356	37.67	36.49	7.16	36.16	45.16	74.00	-28.84	Horizontal			
9808	37.66	38.64	9.08	36.35	49.03	74.00	-24.97	Horizontal			
12260	37.55	39.11	10.32	36.52	50.46	74.00	-23.54	Horizontal			
14712	*					74.00		Horizontal			

Test mode:	802.11n(H40)		Test channel:		Highest		Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904	29.33	31.61	5.93	34.76	32.11	54.00	-21.89	Vertical	
7356	31.29	36.54	7.16	36.16	38.83	54.00	-15.17	Vertical	
9808	29.35	38.67	9.08	36.41	40.69	54.00	-13.31	Vertical	
12260	29.99	39.16	10.26	36.47	42.94	54.00	-11.06	Vertical	
14712	*					54.00		Vertical	
4904	29.35	31.59	5.93	34.72	32.15	54.00	-21.85	Horizontal	
7356	31.21	36.49	7.16	36.16	38.70	54.00	-15.30	Horizontal	
9808	30.22	38.64	9.08	36.35	41.59	54.00	-12.41	Horizontal	
12260	31.15	39.11	10.32	36.52	44.06	54.00	-9.94	Horizontal	
14712	*					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.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.