



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-RTE121501
Page 1 of 63

FCC REPORT

Applicant: Archos SA

Address of Applicant: 12 Rue Ampere Igny 91430 France

Equipment Under Test (EUT)

Product Name: Home Tablet

Model No.: AN10BG2DT

Trade mark: ARNOVA

FCC ID: SOVAN10BG2DT

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

Date of sample receipt: Nov. 08, 2011

Date of Test: Nov. 08-Dec.15, 2011

Date of report issued: Dec.15, 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.

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2 Version

Version No.	Date	Description
00	Dec.15, 2011	Original

Prepared By:

Collin He

Date:

Dec.15, 2011

Project Engineer

Check By:

Hans Hu

Date:

Dec.15, 2011

Reviewer



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4 Test Summary

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

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



5 General Information

5.1 Client Information

Applicant:	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.:	AN10BG2DT
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)

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

Note:

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

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

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
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 our files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

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

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Tel: 0755-27798480

Fax: 0755-27798960

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5.6 Other Information Requested by the Customer

None.

5.7 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	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

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6 Test results and Measurement Data

6.1 Antenna requirement:

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



6.2 Conducted Emissions

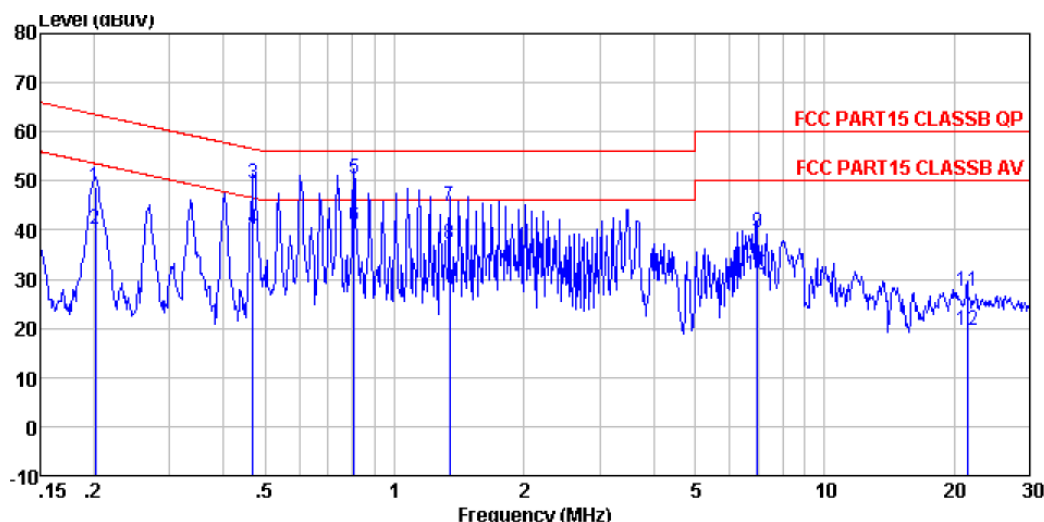
Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	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. 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). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.		
Test setup:	Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	WIFI mode		
Test results:	Passed		

Measurement Data

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Live Line:

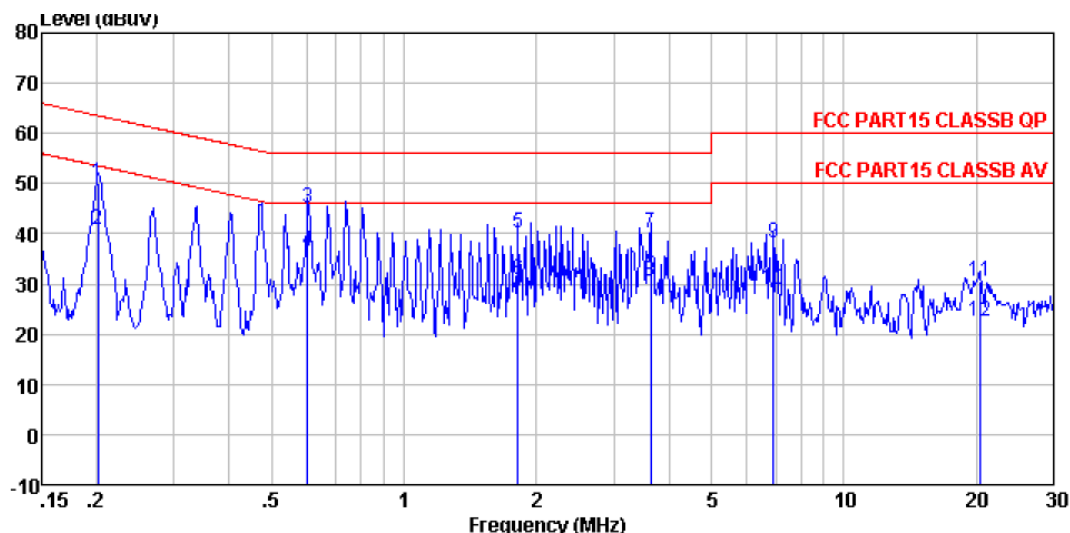


Condition : FCC PART15 CLASSB QP LISN(2011) LINE
Job No. : 861RF
Test Mode : WIFI mode
Test Engineer: Oscar

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
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: Oscar

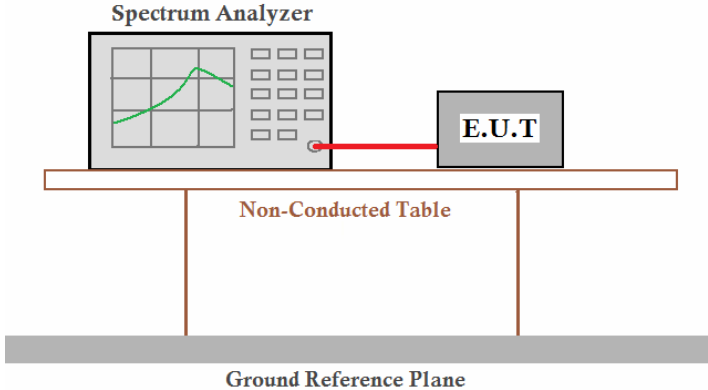
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.202	49.49	0.66	0.10	50.25	63.54	-13.29	QP
2	0.202	40.21	0.66	0.10	40.97	53.54	-12.57	Average
3	0.604	44.41	0.53	0.10	45.04	56.00	-10.96	QP
4	0.604	35.97	0.53	0.10	36.60	46.00	-9.40	Average
5	1.819	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

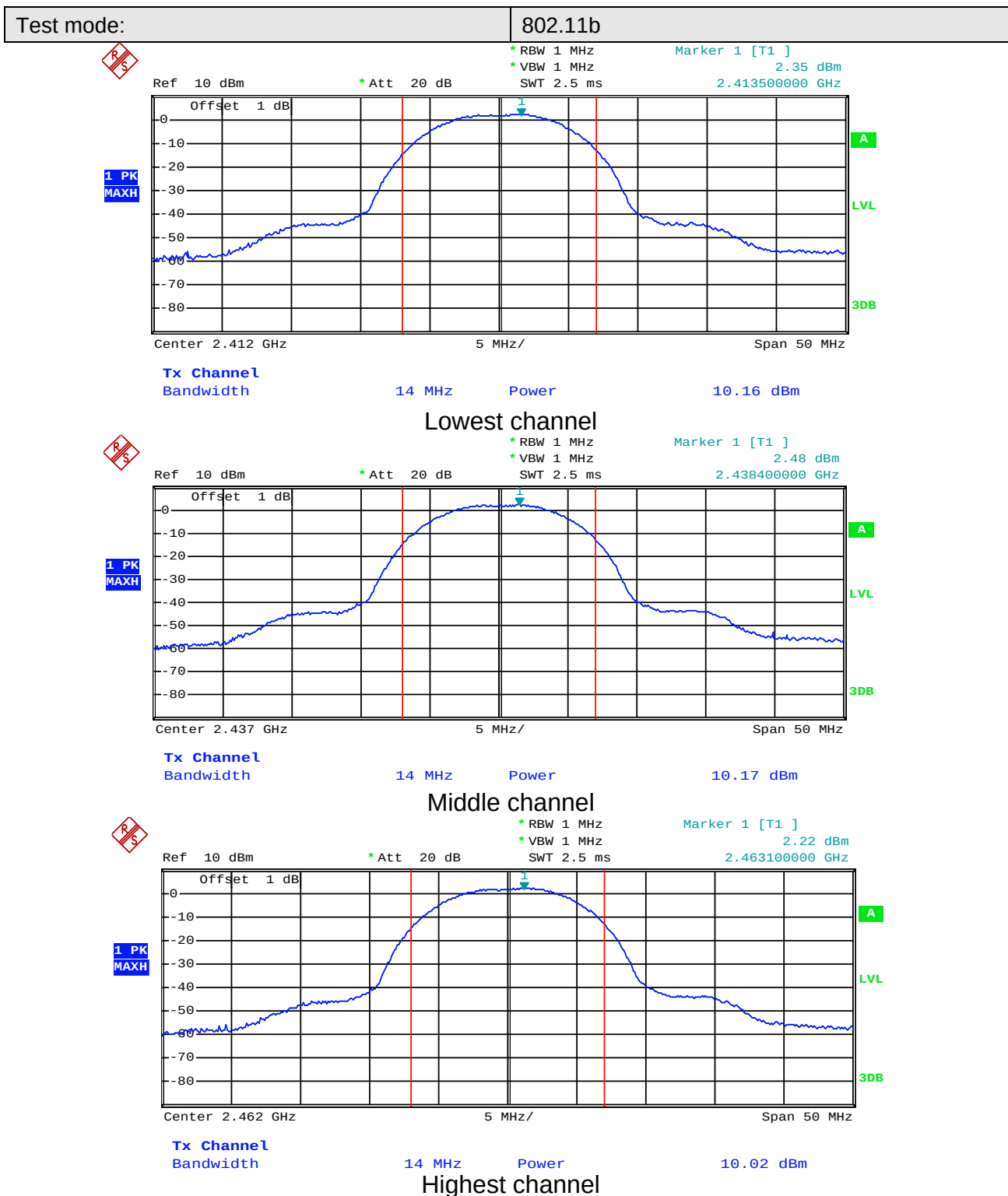
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Transmitting mode
Test results:	Passed

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:

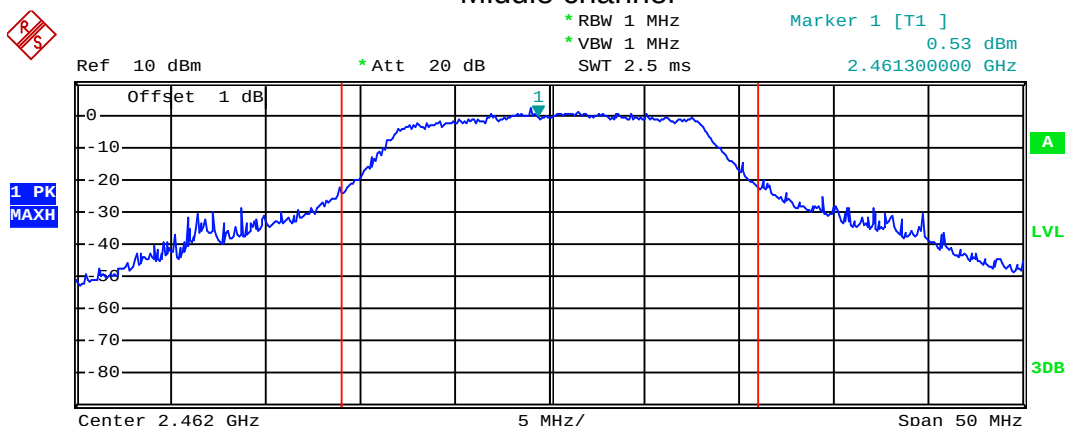
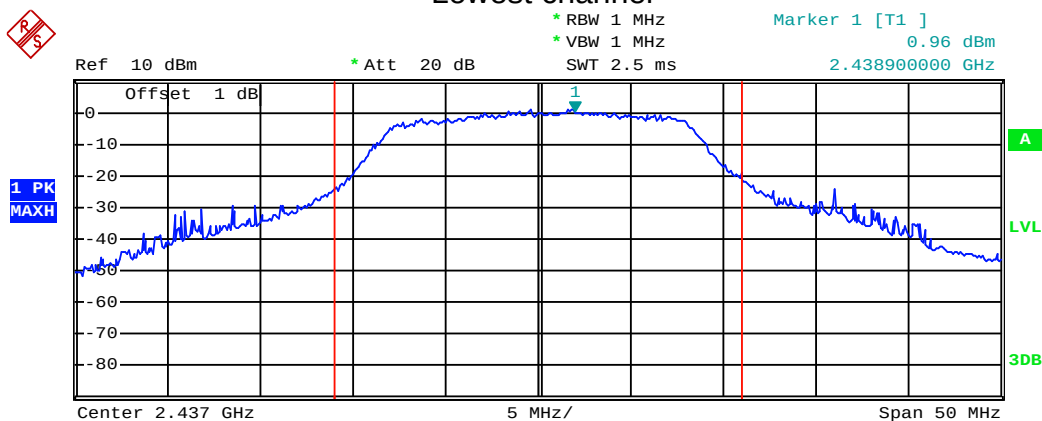
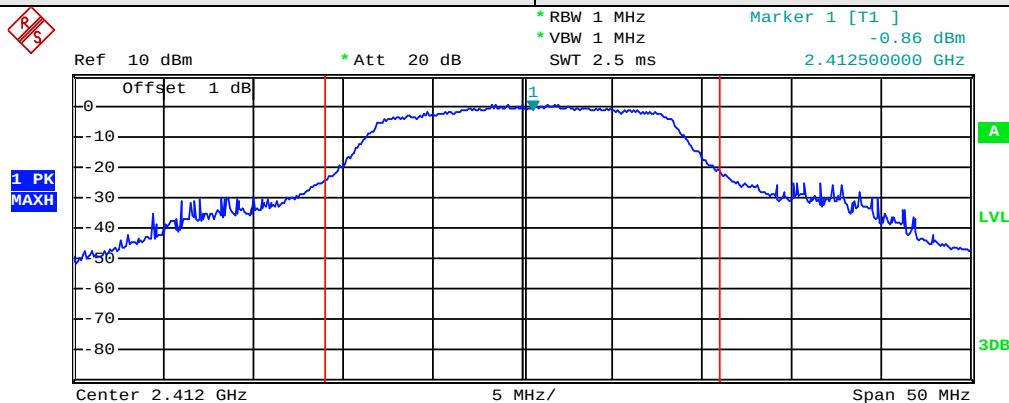
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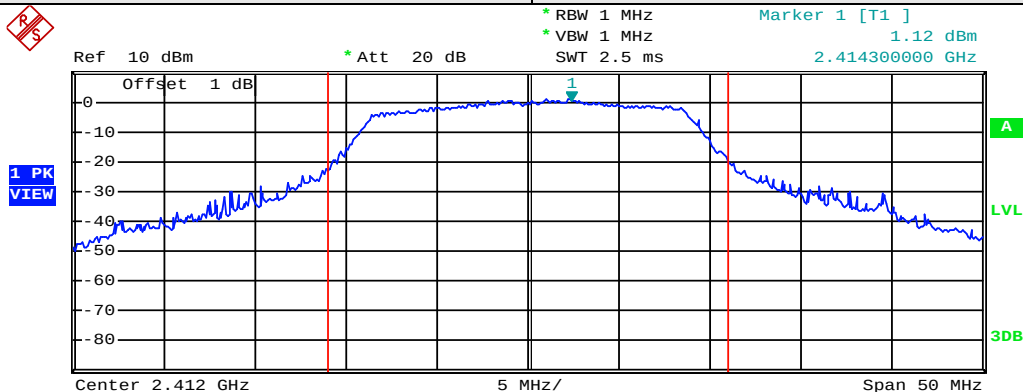
Test mode:	802.11g
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Test mode:	802.11n(H20)
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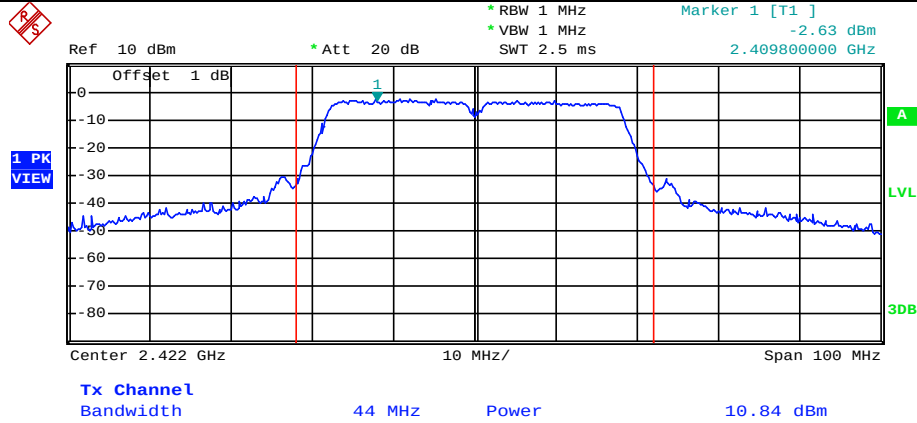


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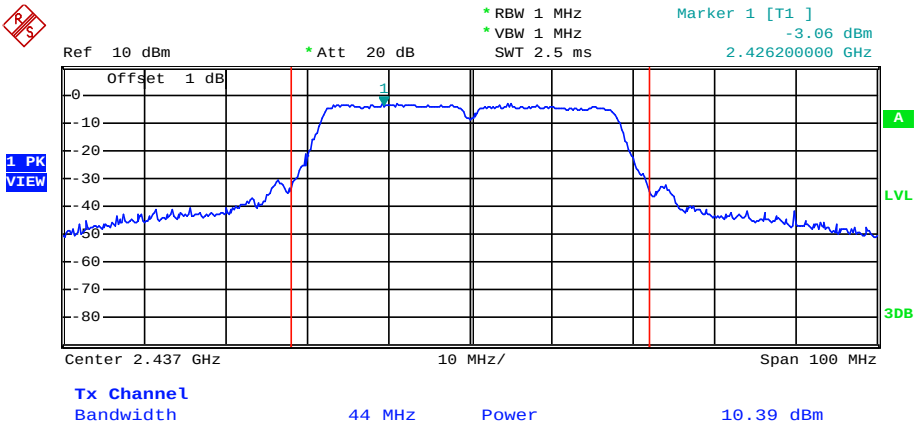


Test mode:

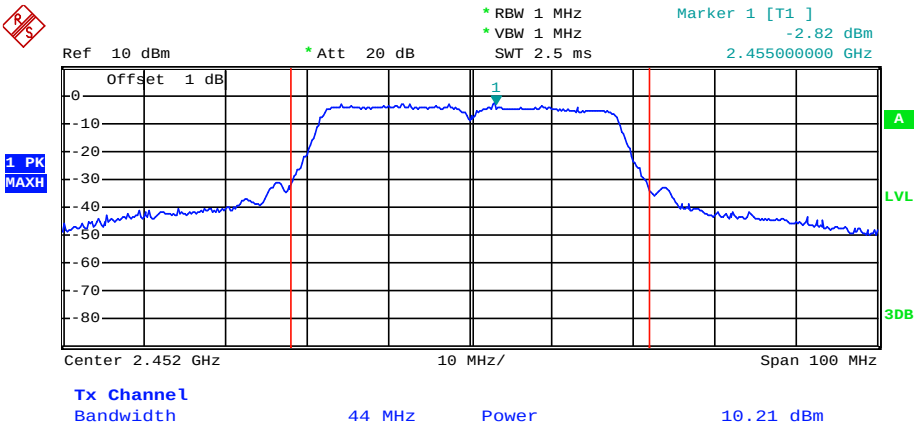
802.11n(H40)



Lowest channel



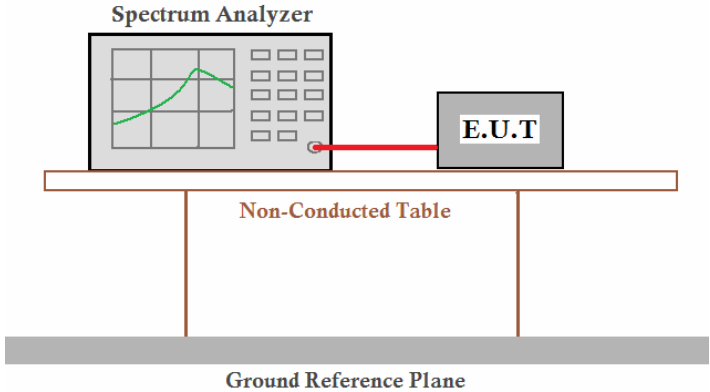
Middle channel



Highest channel



6.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 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:



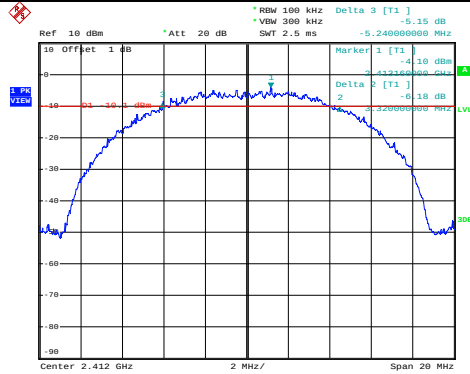
Shenzhen EBO Technology Co., Ltd.

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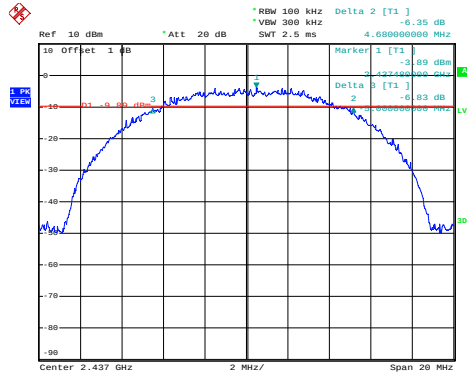
Test mode:

802.11b



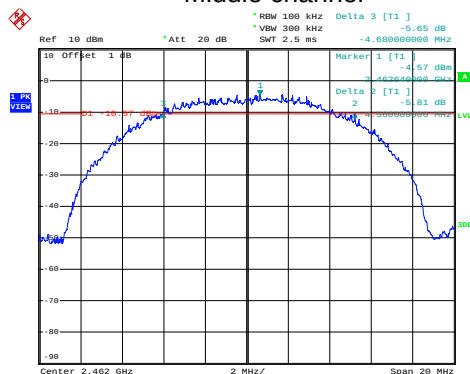
Date: 7.NOV.2011 07:02:22

Lowest channel



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

Middle channel



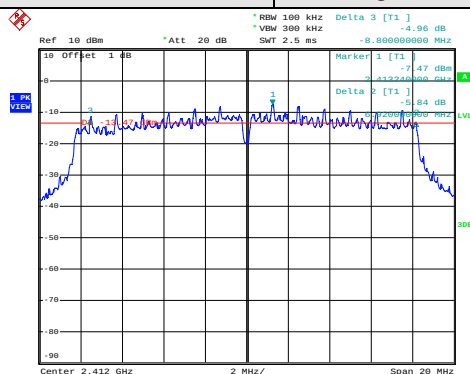
Date: 7.NOV.2011 09:25:26

Highest channel

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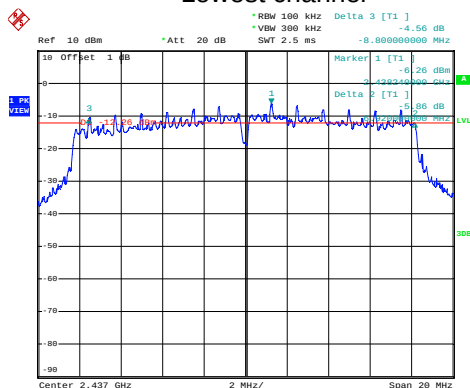
Test mode:

802.11g



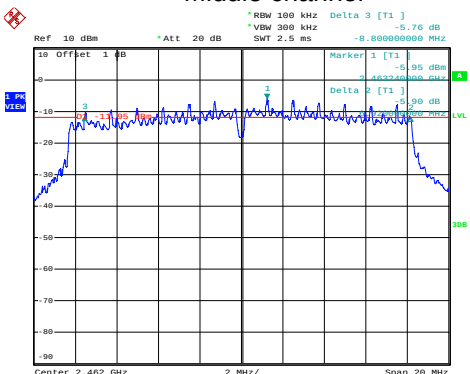
Date: 7.NOV.2011 09:33:03

Lowest channel



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

Middle channel



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

Highest channel

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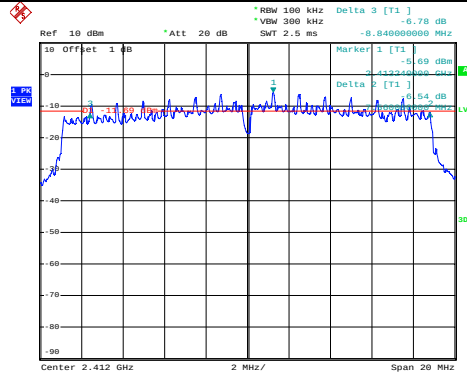
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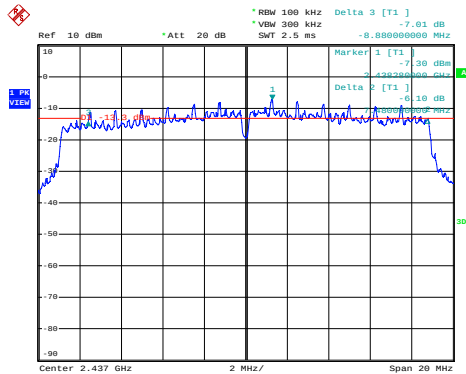
Test mode:

802.11n(H20)



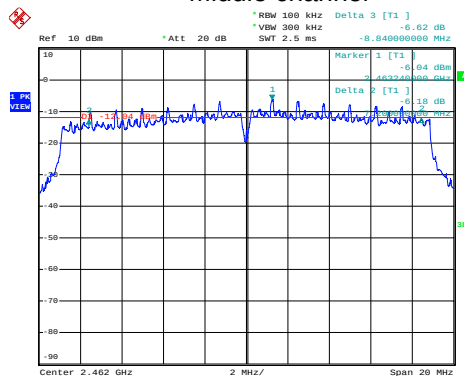
Date: 7.NOV.2011 09:51:05

Lowest channel



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

Middle channel



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

Highest channel

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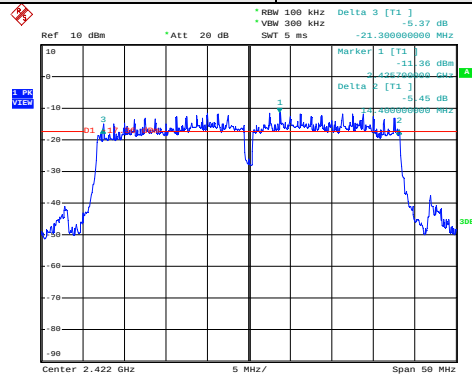
Shenzhen EBO Technology Co., Ltd.

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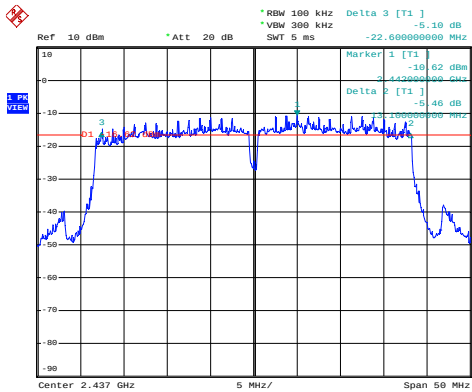
Test mode:

802.11n(H40)



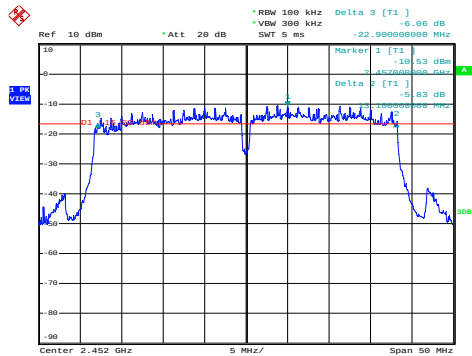
Date: 7.NOV.2011 10:18:22

Lowest channel



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

Middle channel



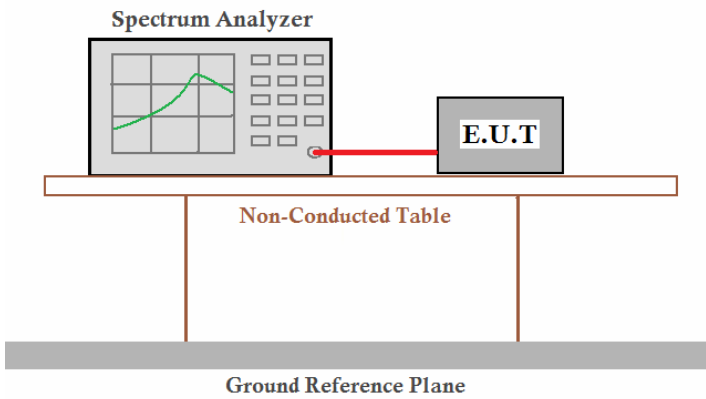
Date: 7.NOV.2011 10:31:10

Highest channel

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6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	8dBm
Test setup:	
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:



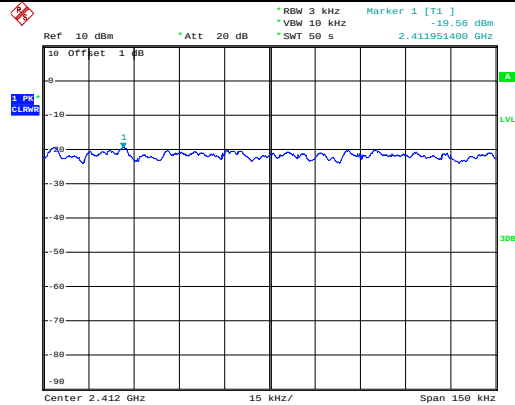
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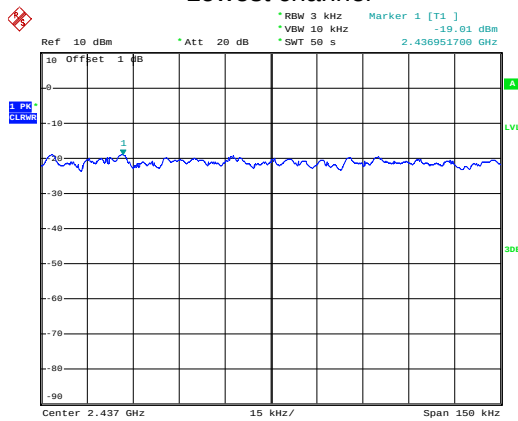
Test mode:

802.11b

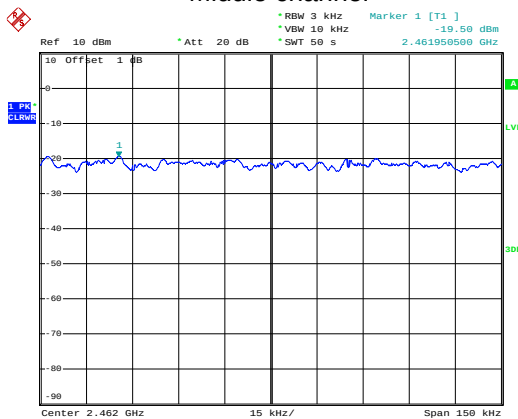


Data: 7 NOV 2011 07:01:20

Lowest channel



Middle channel



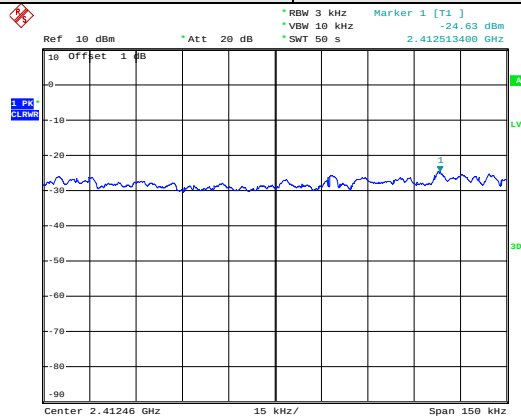
Highest channel

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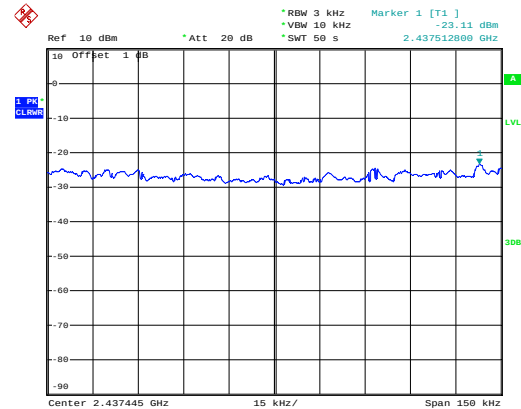


Test mode:

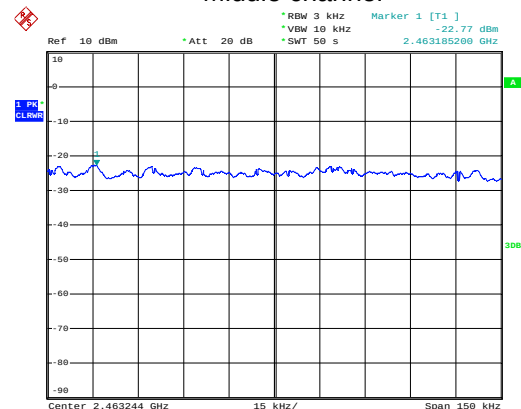
802.11g



Lowest channel



Middle channel



Highest channel

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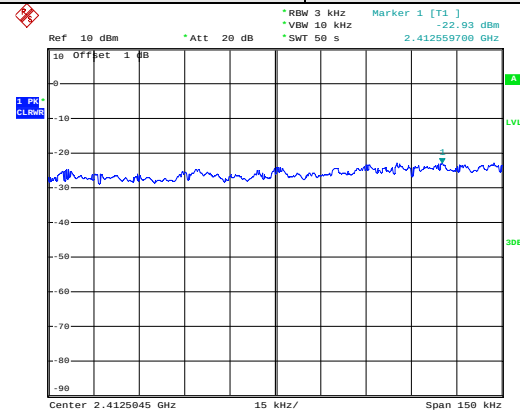
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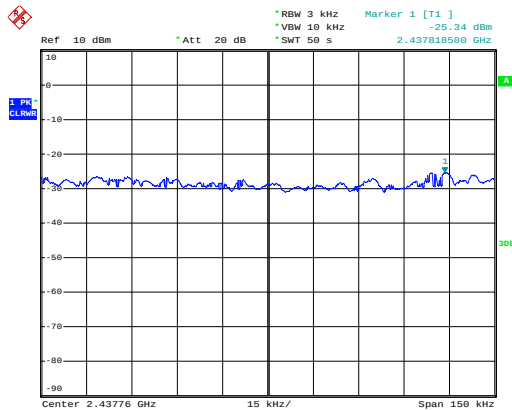
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Test mode:

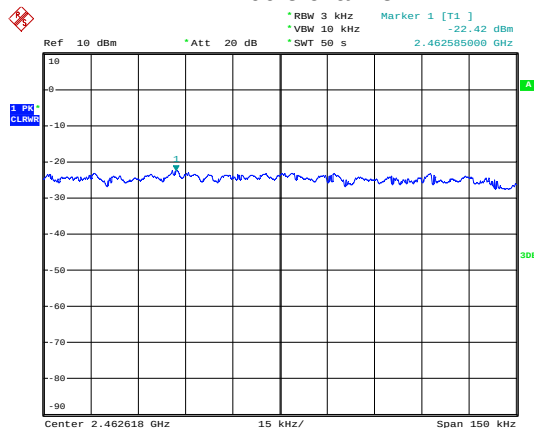
802.11n(H20)



Lowest channel



Middle channel



Highest channel

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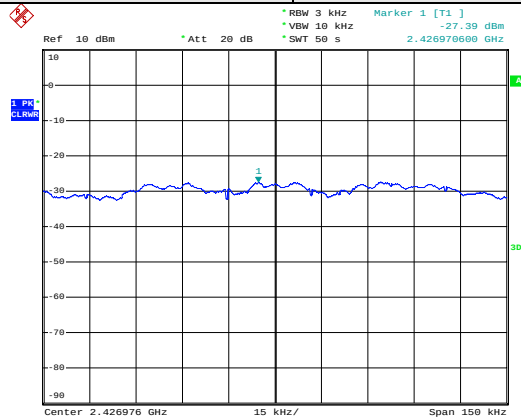
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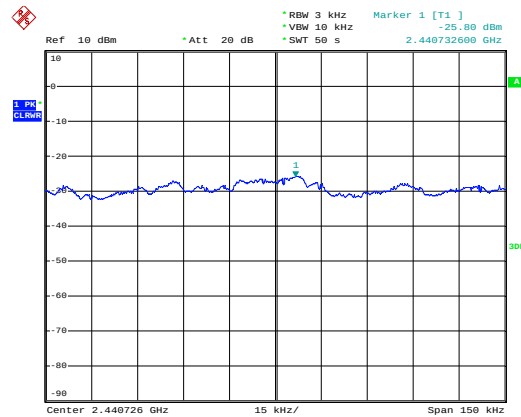
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Test mode:

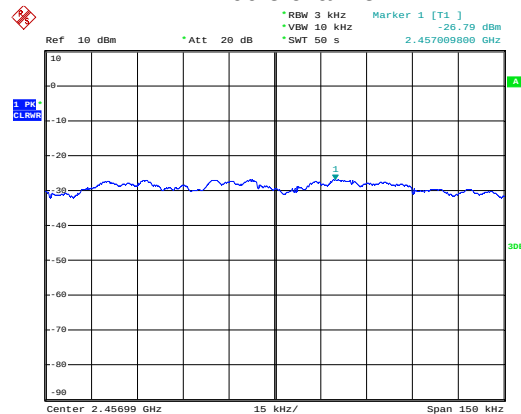
802.11n(H40)



Lowest channel



Middle channel

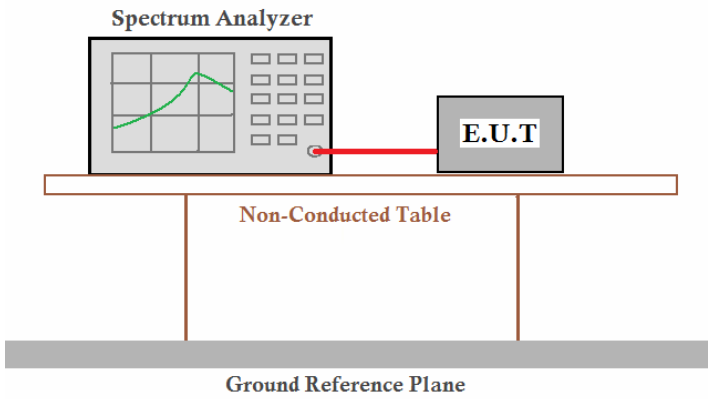


Highest channel

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6.6 Band Edge

6.6.1 Conducted Emission Method

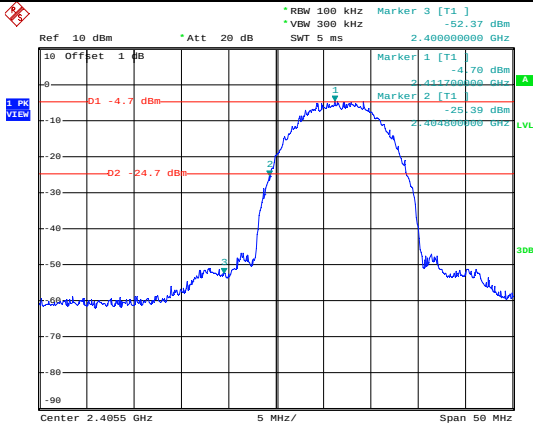
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least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

Test plot as follows:



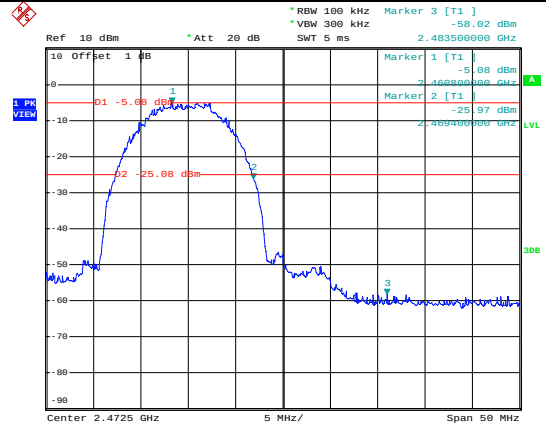
Test mode:

802.11b



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

Lowest channel

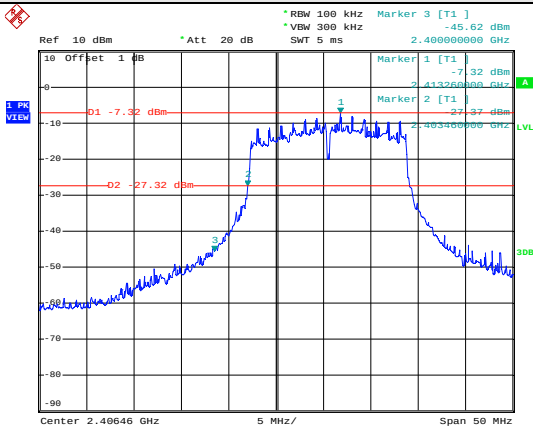


Date: 7.NOV.2011 09:27:54

Highest channel

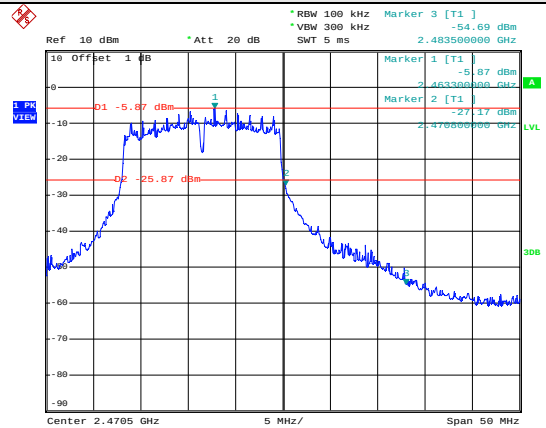
Test mode:

802.11g



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

Lowest channel



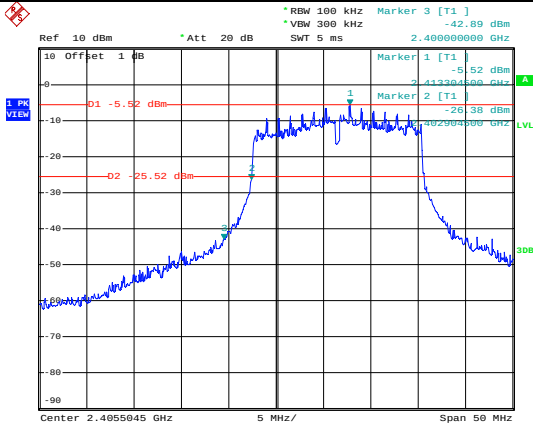
Date: 7.NOV.2011 09:47:58

Highest channel



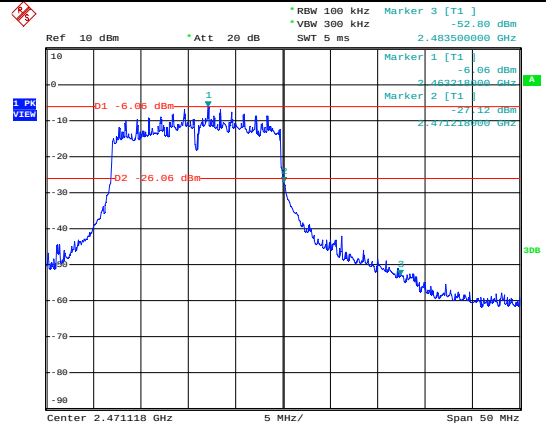
Test mode:

802.11n(H20)



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

Lowest channel

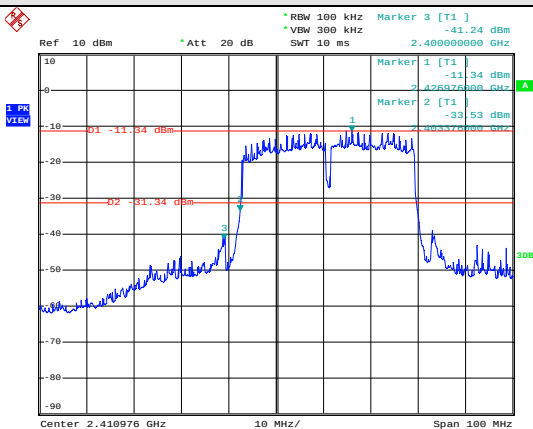


Date: 7.NOV.2011 10:13:34

Highest channel

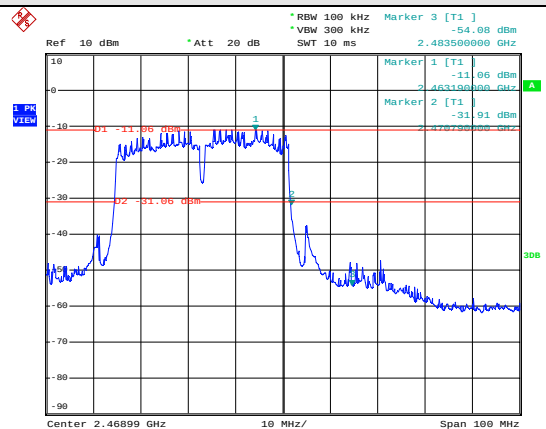
Test mode:

802.11n(H40)



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

Lowest channel



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

Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																		
Test Method:	ANSI C63.4: 2003																		
Test Frequency Range:	2.3GHz to 2.5GHz																		
Test site:	Measurement Distance: 3m																		
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					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><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></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:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. All restriction band have been scanned, only the worse case is reported. 8. 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																		
Test setup:																			

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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			

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Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	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)	Preampl 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			

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Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	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			

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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:

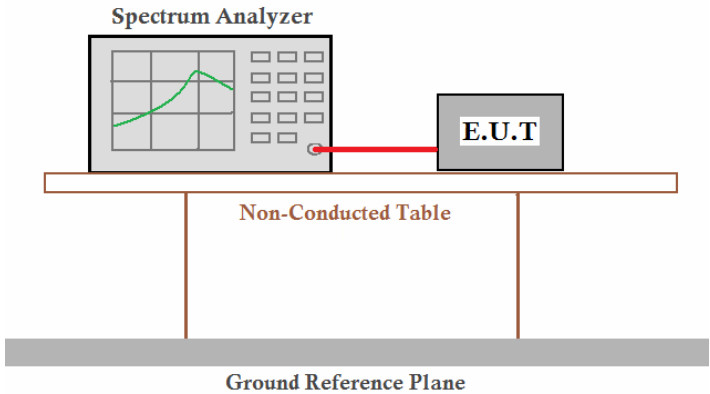
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

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

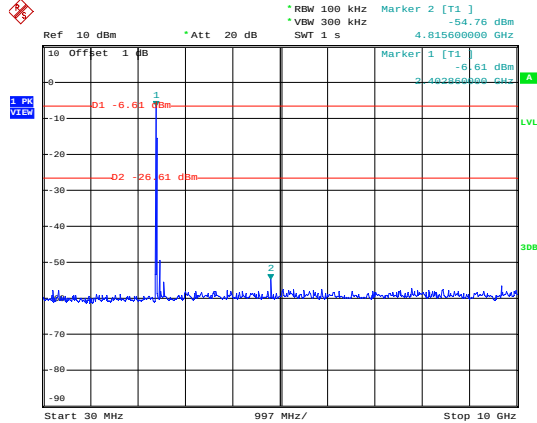
Test plot as follows:



Test mode:

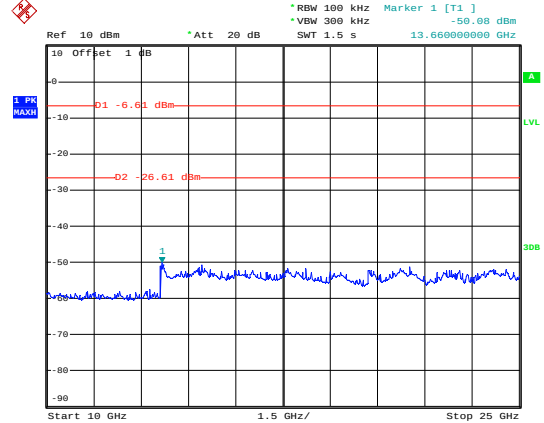
802.11b

Lowest channel



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

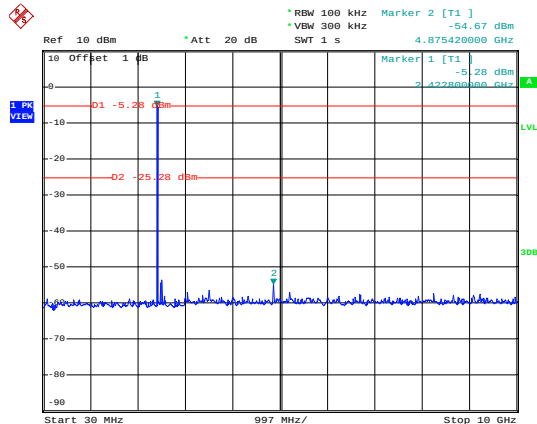
30MHz~10GHz



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

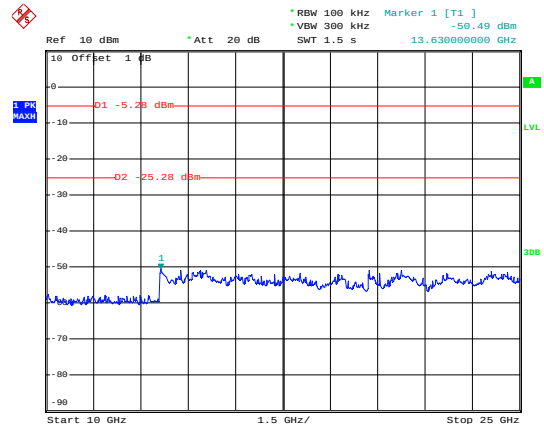
10GHz~25GHz

Middle channel



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

30MHz~10GHz



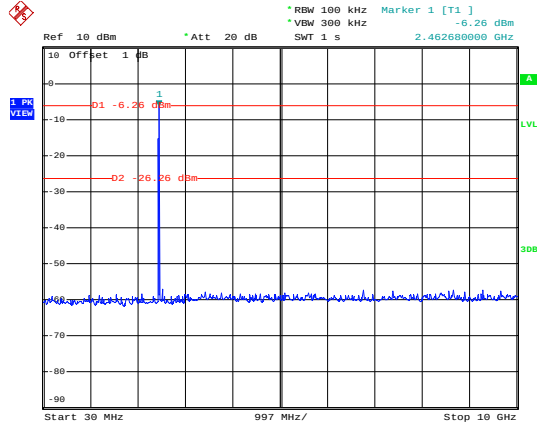
Date: 7.NOV.2011 07:13:15

10GHz~25GHz

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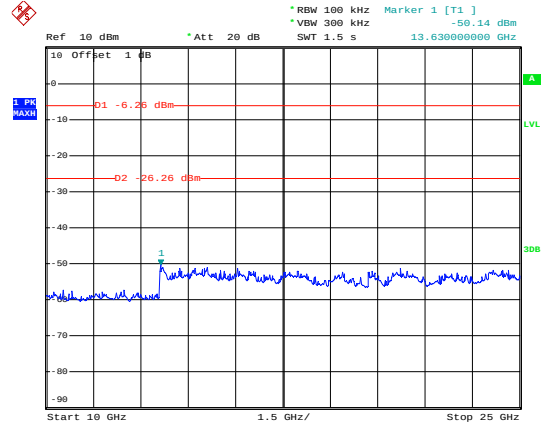


Highest channel



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

30MHz~10GHz



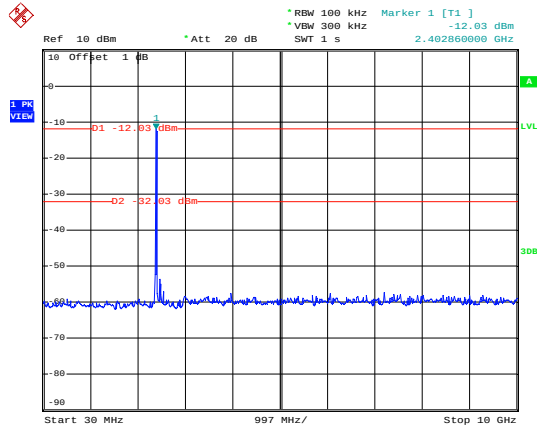
Date: 7.NOV.2011 09:28:56

10GHz~25GHz

Test mode:

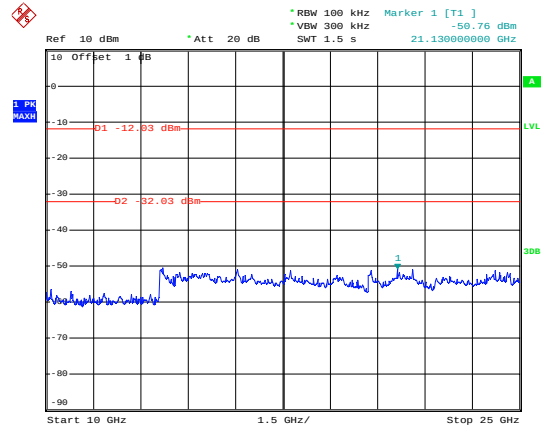
802.11g

Lowest channel



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

30MHz~10GHz



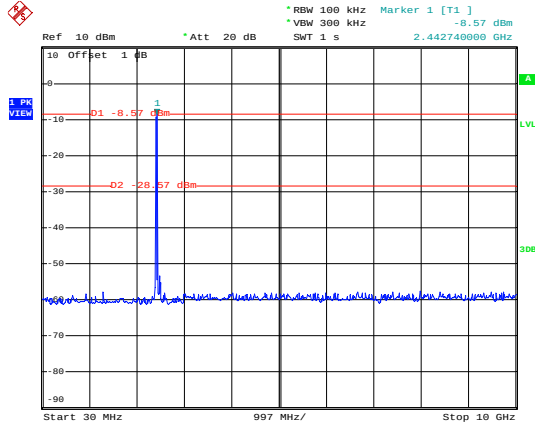
Date: 7.NOV.2011 09:39:56

10GHz~25GHz

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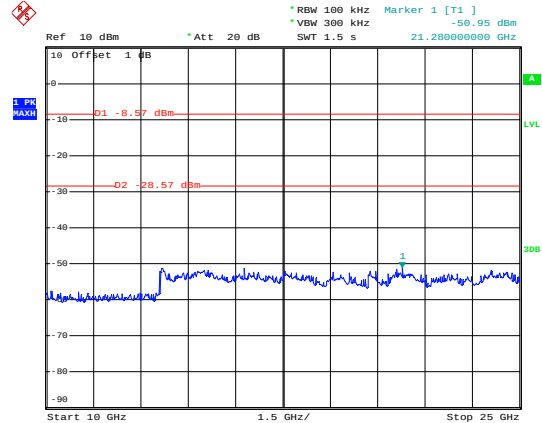


Middle channel



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

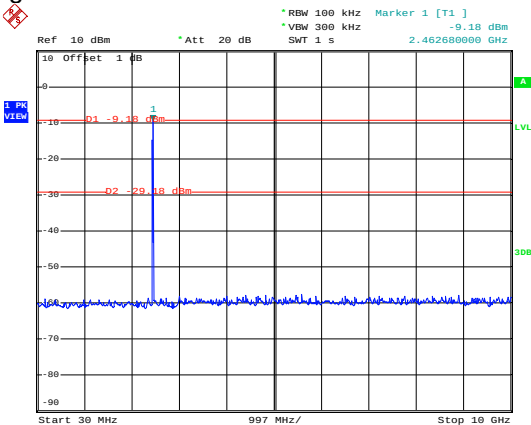
30MHz~10GHz



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

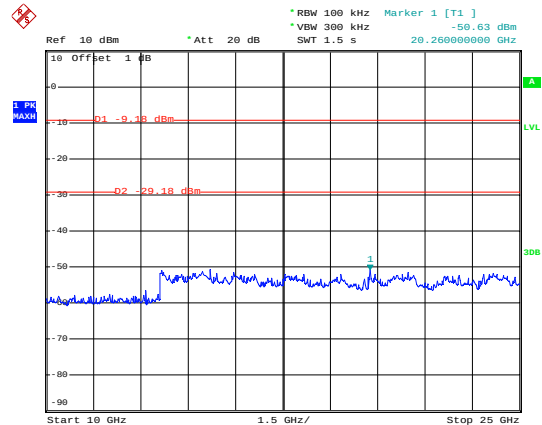
10GHz~25GHz

Highest channel



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

30MHz~10GHz



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

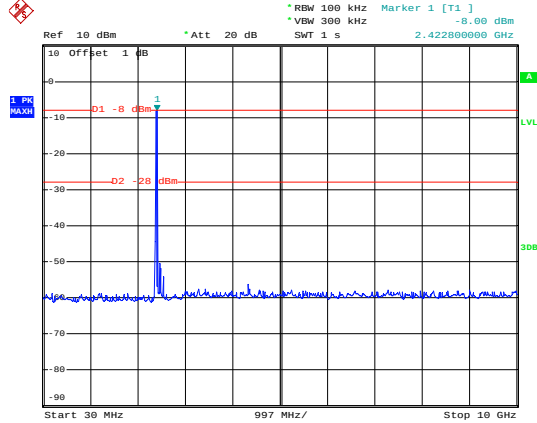
10GHz~25GHz



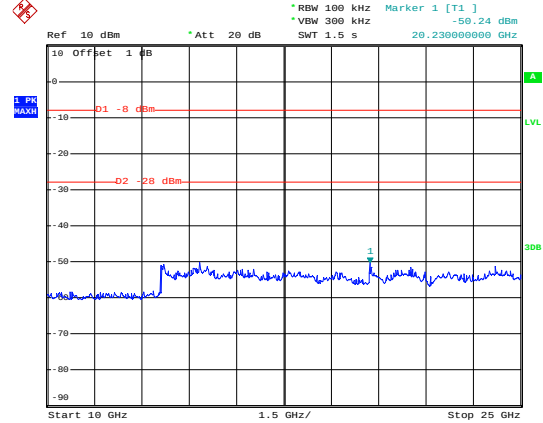
Test mode:

802.11n(H20)

Lowest channel



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

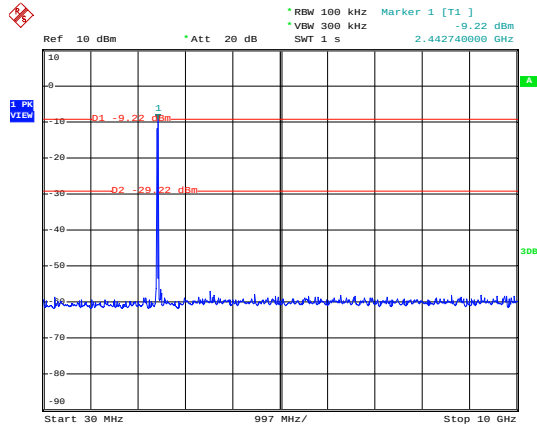


Date: 7.NOV.2011 09:55:34

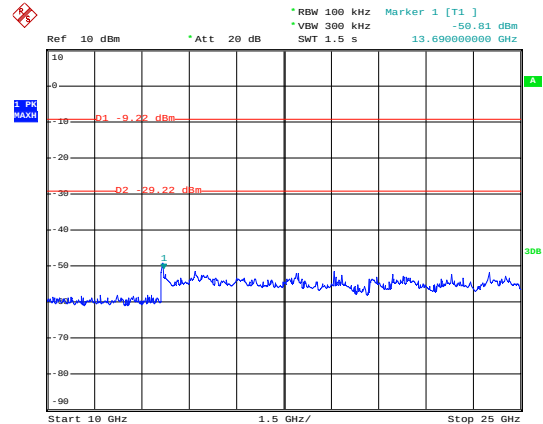
30MHz~10GHz

10GHz~25GHz

Middle channel



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



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

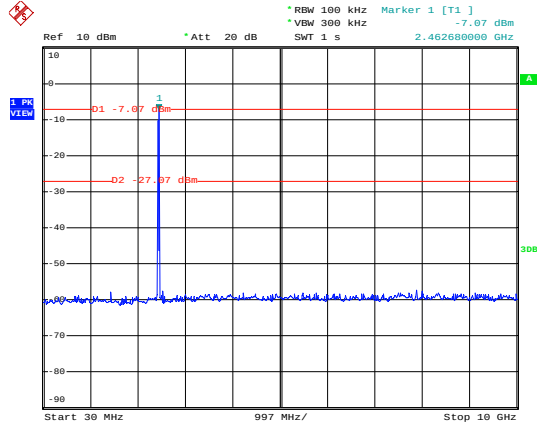
30MHz~10GHz

10GHz~25GHz

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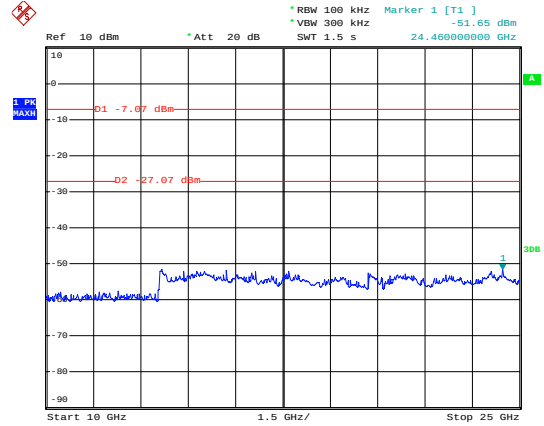


Highest channel



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

30MHz~10GHz



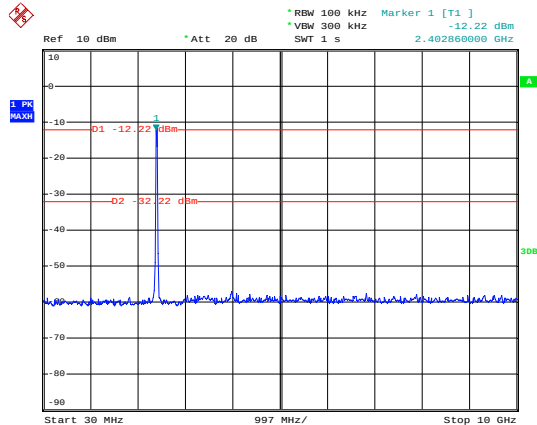
Date: 7.NOV.2011 10:15:03

10GHz~25GHz

Test mode:

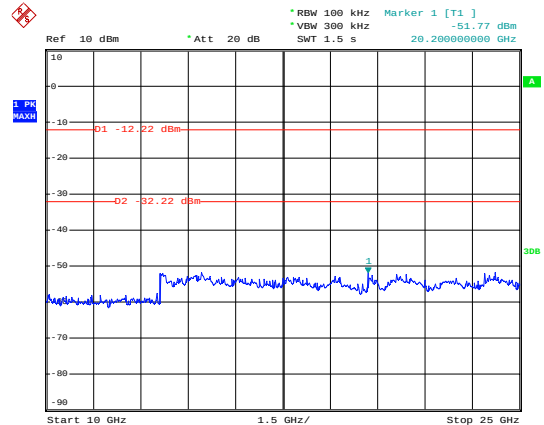
802.11n(H40)

Lowest channel



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

30MHz~10GHz



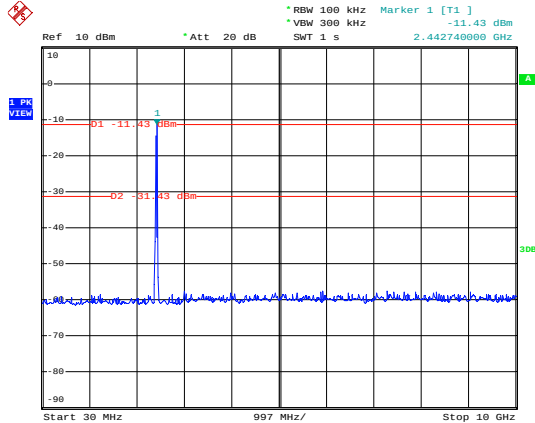
Date: 7.NOV.2011 10:24:21

10GHz~25GHz

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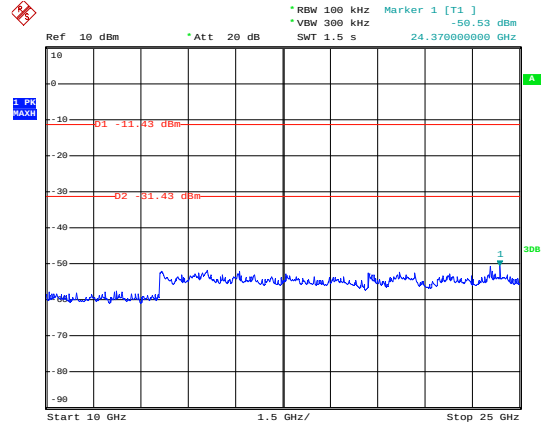


Middle channel



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

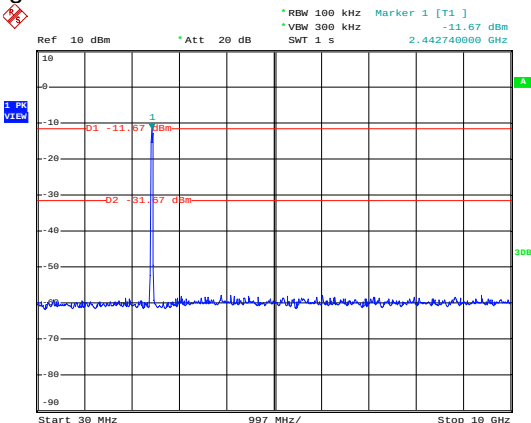
30MHz~10GHz



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

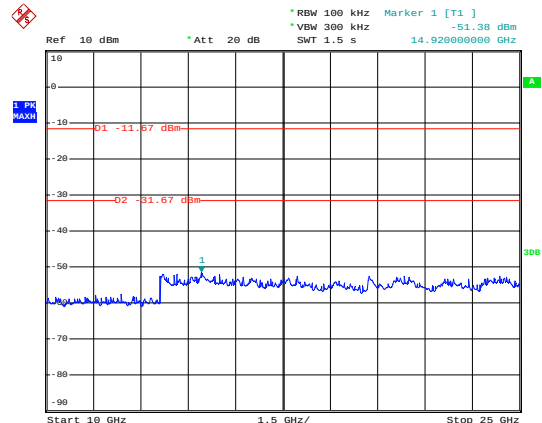
10GHz~25GHz

Highest channel



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

30MHz~10GHz



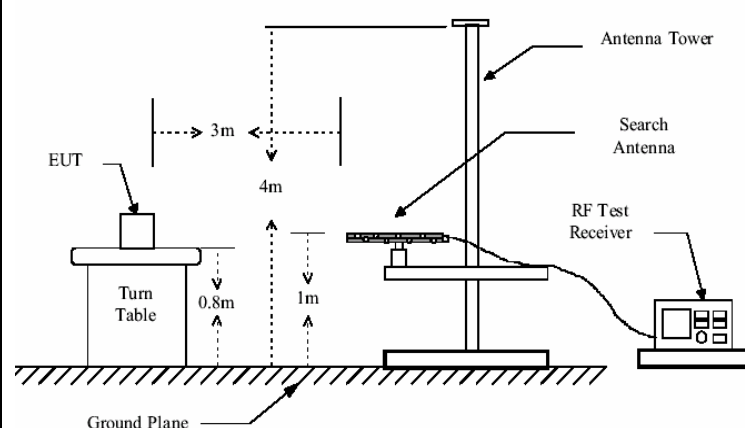
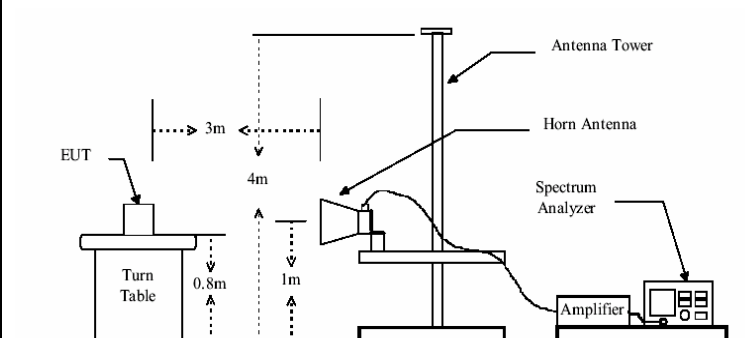
Date: 7.NOV.2011 10:35:07

10GHz~25GHz



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:					
	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:					
	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:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				

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



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Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier 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		

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Test mode:		802.11b		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
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			

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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			

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Test mode:		802.11g		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	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			

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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			

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Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)		Cable Loss (dB)	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			

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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			

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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			

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Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
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 too weak; instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not shown in test report.*

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