

# FCC & IC REPORT (WIFI)

**Applicant:** Binatone Electronics International Limited

**Address of Applicant:** Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

## Equipment Under Test (EUT)

**Product Name:** DECT Phone

**Model No.:** SMART66

**FCC ID:** VLJ-SMART66

**Canada IC:** 4522A-SMART66

FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Applicable standards:** RSS-210 Issue 8, December 2010

RSS-Gen Issue 3, December 2010

**Date of sample receipt:** 10 Feb., 2014

**Date of Test:** 12 Feb., 2014 to 27 Feb., 2014

**Date of report issued:** 28 Feb., 2014

**Test Result:** PASS \*

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

Authorized Signature:



Bruce Zhang

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 CCIS 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.

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## 2 Version

Version No.	Date	Description
00	28 Feb., 2014	Original

Prepared by:



Sera Xiang

Date:

28 Feb., 2014

Report Clerk

Reviewed by:



Wimor Zhang

Date:

28 Feb., 2014

Project Engineer

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## 4 Test Summary

Test Item	Section in CFR 47	Section	Result
Antenna requirement	15.203/15.247 (c)	RSS-210,RSS-GEN	Pass
AC Power Line Conducted Emission	15.207	RSS-210,RSS-GEN	Pass
Conducted Peak Output Power	15.247 (b)(3)	RSS-210,RSS-GEN	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	RSS-210, RSS-GEN	Pass
Power Spectral Density	15.247 (e)	RSS-210,RSS-GEN	Pass
Band Edge	15.247(d)	RSS-210,RSS-GEN	Pass
Spurious Emission	15.205/15.209	RSS-210,RSS-GEN	Pass

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

## 5 General Information

### 5.1 Client Information

Applicant:	Binatone Electronics International Limited
Address of Applicant:	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
Manufacturer:	Shenzhen concox information technology company limited
Address of Manufacturer:	4/F, Building B, Gaoxinqi Industrial Park, Liuxian 1st Road, No. 67, Bao'an District, Shenzhen, China
Factory:	Huizhou Goldenchip Electronics Co., Ltd.
Address of Factory:	No.12 Factory, Songyang Road, Zhongkai Hi-tech Development Zone, Huizhou City, Guangdong Province, China

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

Product Name:	DECT Phone
Model No.:	SMART66
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 802.11n(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:	Internal Antenna
Antenna gain:	0.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-2500mAh
AC adapter:	Model:MLF-A00060501000U0021 Input:100-240VAC,50/60Hz 0.18A Output:5.0VDC MAX1A

**Operation Frequency each of channel For 802.11b/g/n(H20)**

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		

**Operation Frequency each of channel For 802.11n(H40)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
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>	
Operation mode	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

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:										
<b>Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.</b>										
<table border="1"> <thead> <tr> <th>Mode</th><th>Data rate</th></tr> </thead> <tbody> <tr> <td>802.11b</td><td>1Mbps</td></tr> <tr> <td>802.11g</td><td>6Mbps</td></tr> <tr> <td>802.11n(H20)</td><td>6.5Mbps</td></tr> <tr> <td>802.11n(H40)</td><td>13.5Mbps</td></tr> </tbody> </table>	Mode	Data rate	802.11b	1Mbps	802.11g	6Mbps	802.11n(H20)	6.5Mbps	802.11n(H40)	13.5Mbps
Mode	Data rate									
802.11b	1Mbps									
802.11g	6Mbps									
802.11n(H20)	6.5Mbps									
802.11n(H40)	13.5Mbps									

### 5.4 Description of Support Units

N/A
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## 5.5 Laboratory Facility

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

● **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 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 817957, February 27, 2012.

● **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282

Fax: +86-755-23116366

## 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	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2013	June 08 2014
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2013	June 08 2014
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May 24 2014
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2013	Mar. 31 2014
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

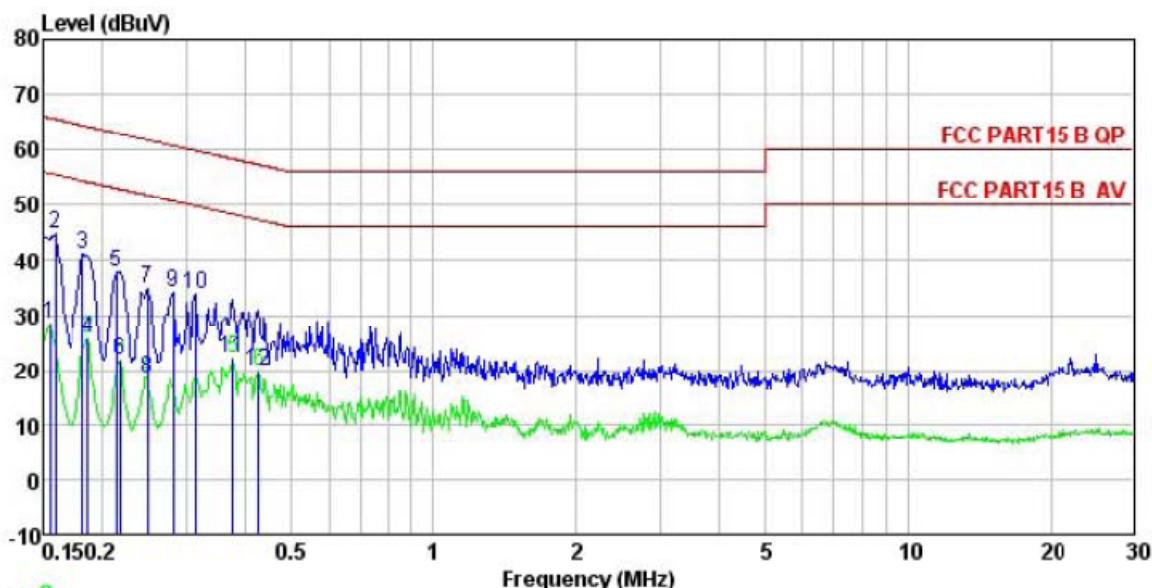
<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c) and RSS-Gen Section 7.1.2
15.203 requirement:	<i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i>
15.247(c) (1)(i) requirement:	(i) <i>Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i>
<b>E.U.T Antenna:</b>	The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.5 dBi.
	

## 6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207 and RSS-Gen Section 7.1.4																
Test Method:	ANSI C63.4: 2003																
Test Frequency Range:	150 kHz to 30 MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9 kHz, VBW=30 kHz																
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>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 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>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test Instruments:	Refer to section 5.7 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Passed																

### Measurement Data

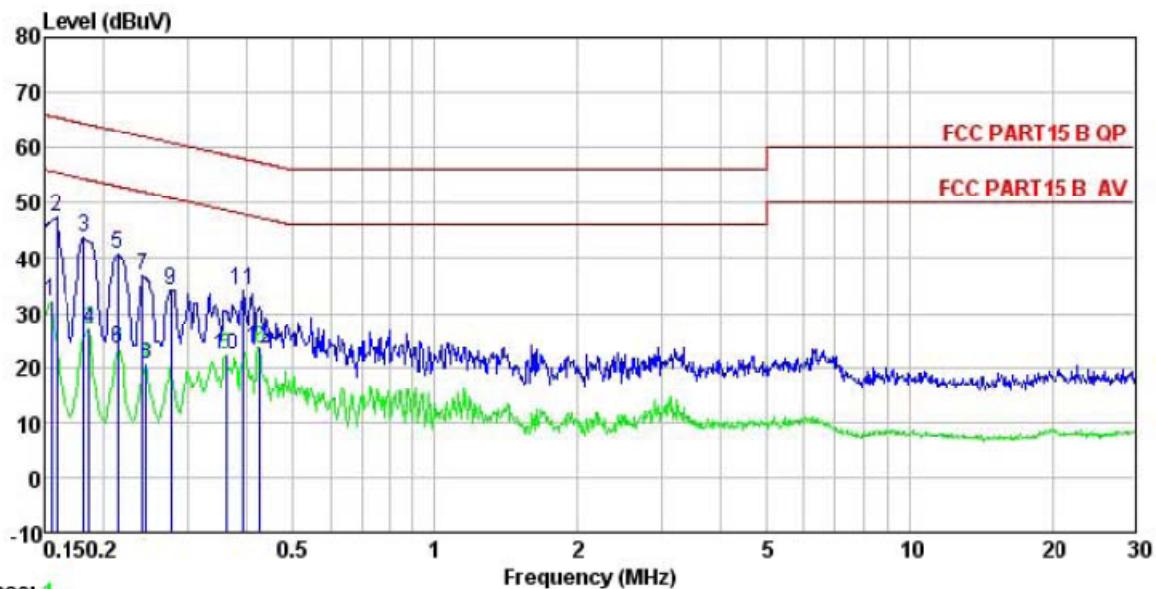
Neutral:



Site : CCIS Conducted test Site  
 Condition : FCC PART15 B QP LISN NEUTRAL  
 Job. no : 038RF  
 EUT : DECT Phone  
 Test Mode : Wifi TX mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa  
 Test Engineer: Winner  
 Remark : Handset

	Read Freq	LISN Level	Cable Factor	Limit Loss	Line Level	Over Line Limit	Over Cable Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	17.49	0.25	10.78	28.52	55.78	-27.26	Average
2	0.158	33.76	0.25	10.78	44.79	65.56	-20.77	QP
3	0.182	30.08	0.25	10.77	41.10	64.42	-23.32	QP
4	0.186	14.74	0.25	10.76	25.75	54.20	-28.45	Average
5	0.214	26.78	0.25	10.76	37.79	63.05	-25.26	QP
6	0.219	11.03	0.25	10.76	22.04	52.88	-30.84	Average
7	0.249	23.99	0.26	10.75	35.00	61.78	-26.78	QP
8	0.249	7.71	0.26	10.75	18.72	51.78	-33.06	Average
9	0.282	23.18	0.26	10.74	34.18	60.76	-26.58	QP
10	0.313	22.94	0.26	10.74	33.94	59.88	-25.94	QP
11	0.377	11.32	0.25	10.72	22.29	48.34	-26.05	Average
12	0.426	8.84	0.26	10.73	19.83	47.33	-27.50	Average

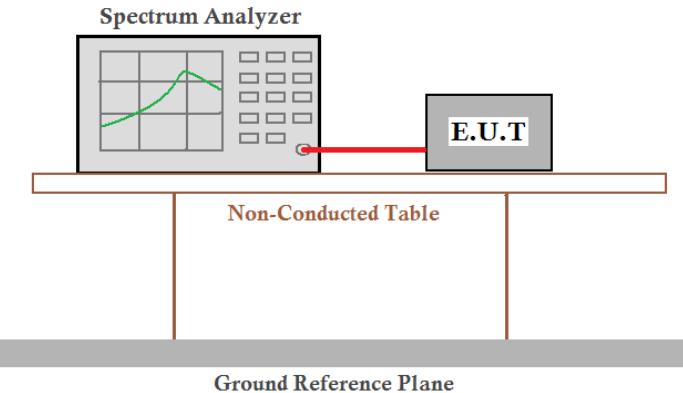
Line:



## Notes:

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

### 6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3) and RSS-210 A8.4 section 4
Test Method:	ANSI C63.4:2003 and KDB558074 / RSS-Gen section 4.8
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is positioned at the top left, connected by a red line to a gray rectangular box labeled 'E.U.T'. This box rests on a white rectangular platform labeled 'Non-Conducted Table'. Below the table is a thick gray horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Test method refer to KDB558074 (DTS Measure Guidance) section 8.2, option 1.

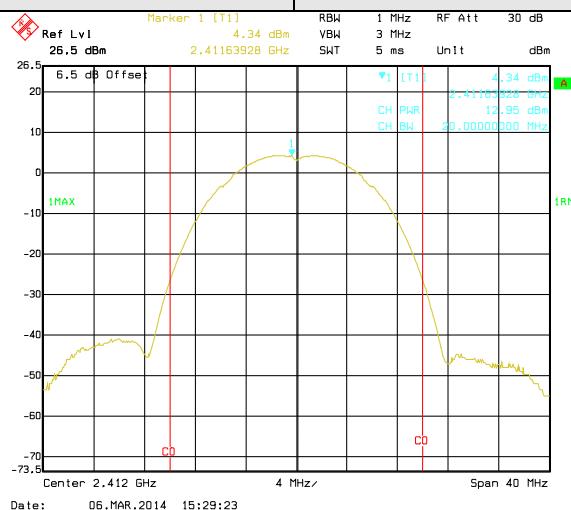
#### Measurement Data

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	12.95	10.97	10.97	10.59	30.00	Pass
Middle	12.73	11.09	11.13	11.04		
Highest	12.05	11.27	11.16	10.96		

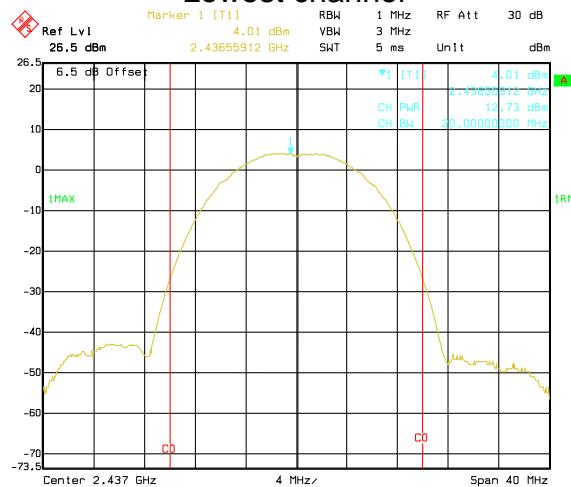
Test plot as follows:

Test mode:

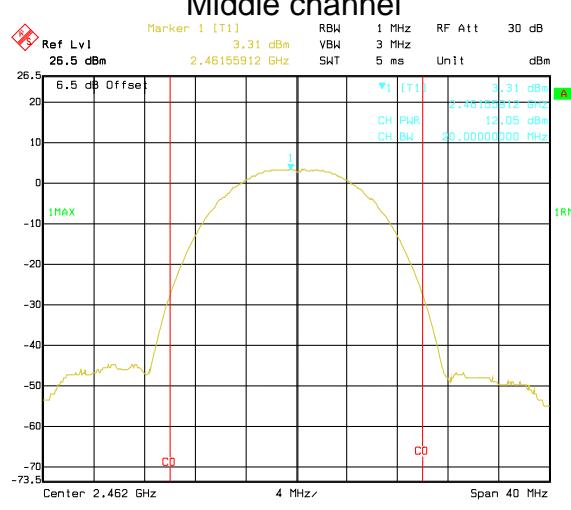
802.11b



### Lowest channel



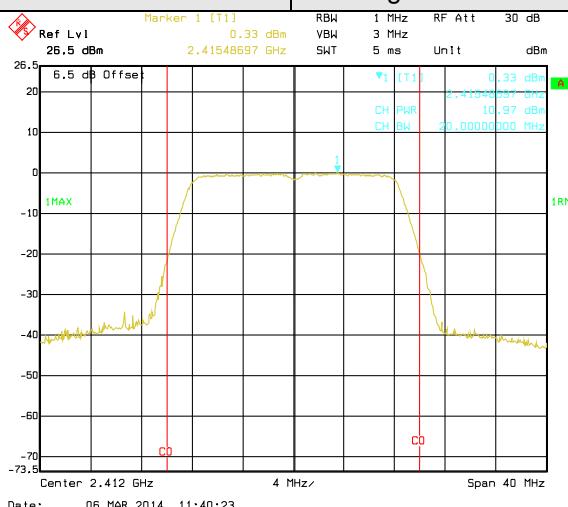
### Middle channel



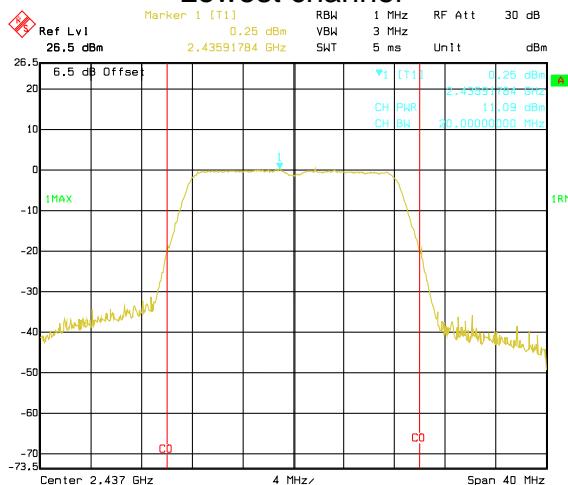
### Highest channel

Test mode:

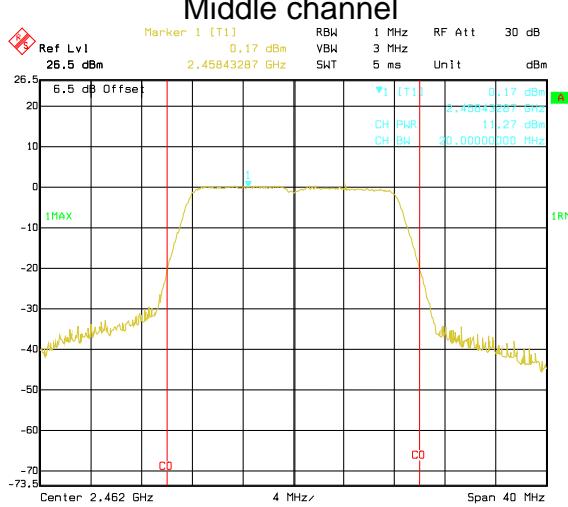
802.11g



### Lowest channel



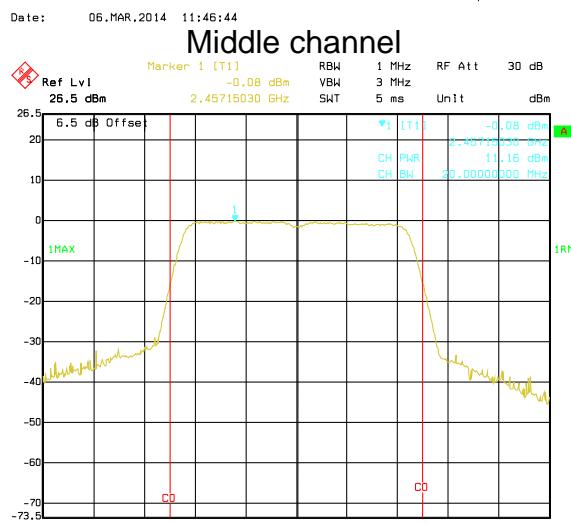
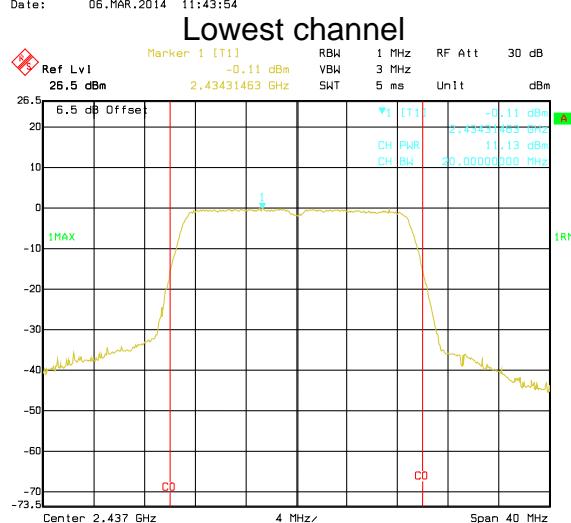
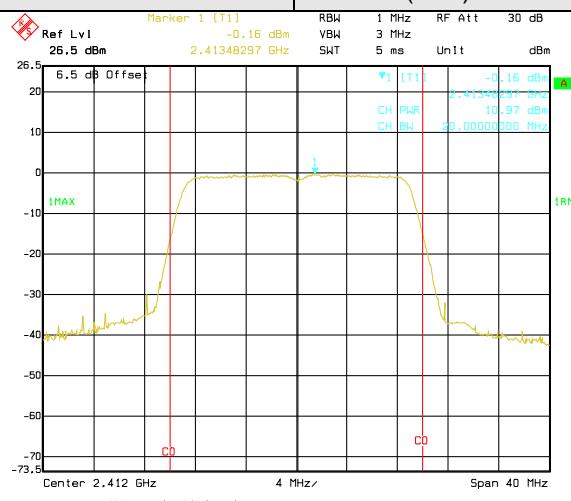
### Middle channel



### Highest channel

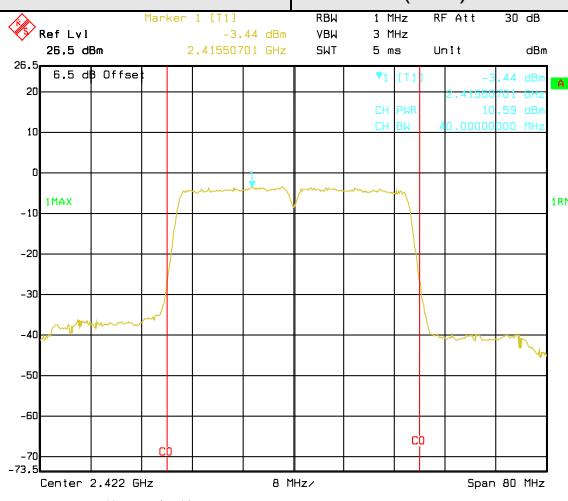
Test mode:

802.11n(H20)



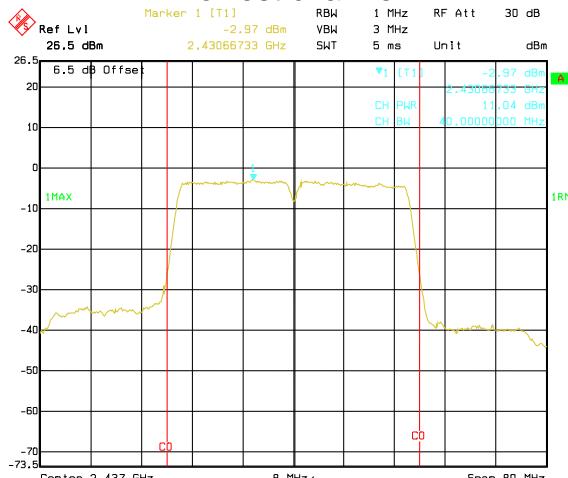
Test mode:

802.11n(H40)



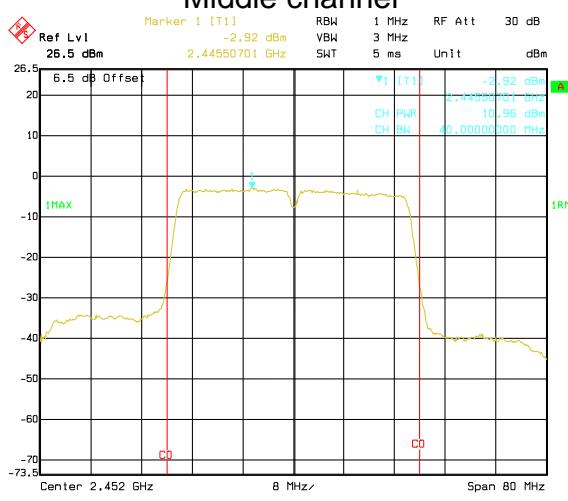
Date: 06.MAR.2014 11:50:23

### Lowest channel



Date: 06.MAR.2014 11:51:58

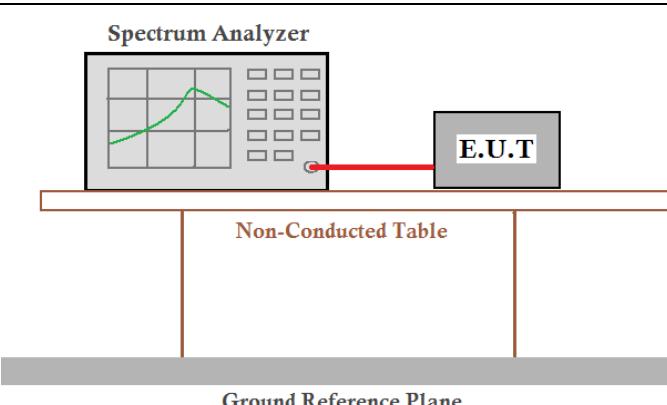
### Middle channel



Date: 06.MAR.2014 11:53:47

### Highest channel

## 6.4 Occupy Bandwidth

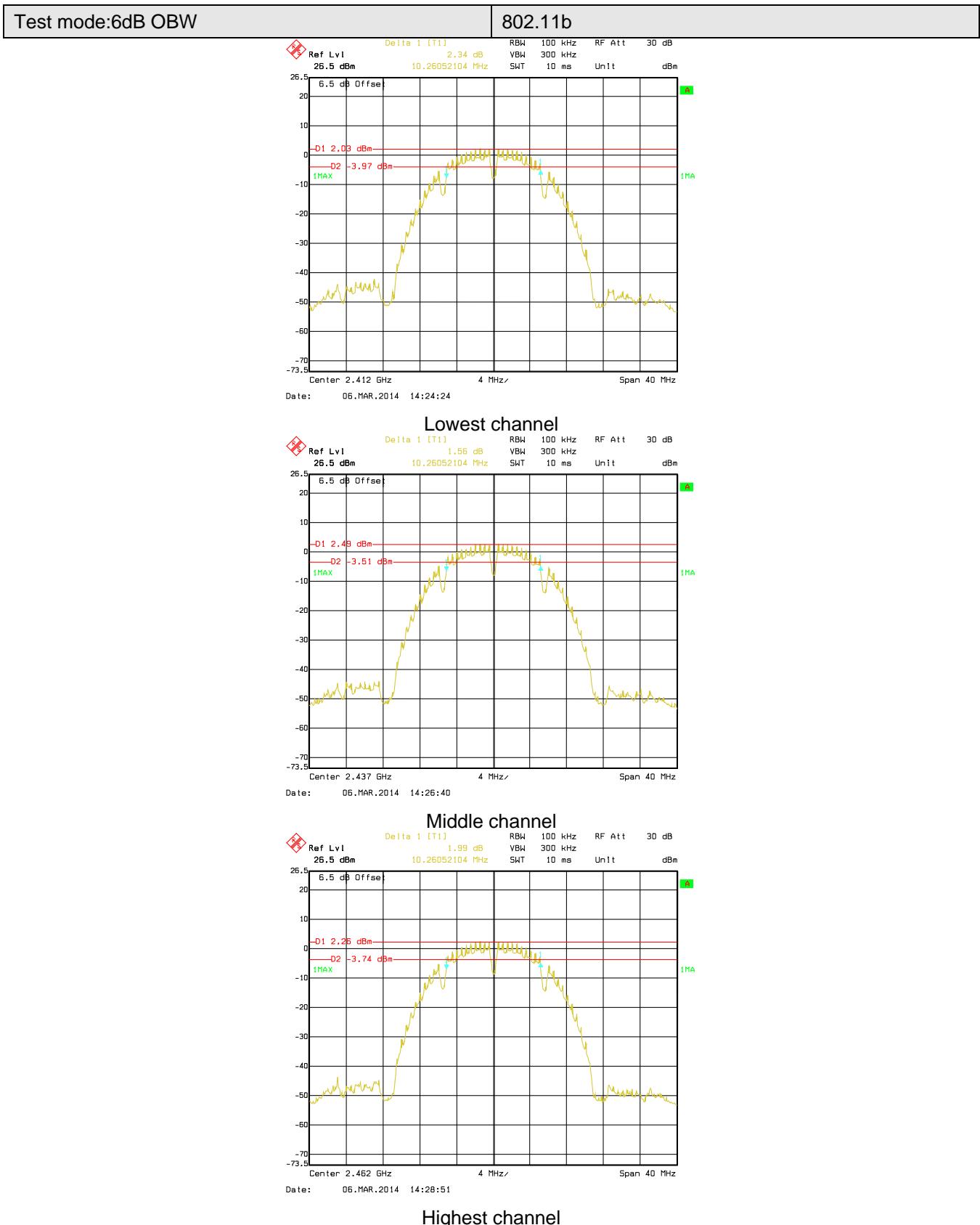
Test Requirement:	FCC Part15 C Section 15.247 (a)(2) and RSS-210 section A8.2(a)
Test Method:	ANSI C63.4:2003 and KDB558074 / RSS-Gen section 4.6.2
Limit:	>500kHz
Test setup:	 <p>The diagram shows a 'Spectrum Analyzer' with a green waveform on its screen. A red line connects it to a 'E.U.T' (Equipment Under Test) box. This entire assembly rests on a 'Non-Conducted Table'. Below the table is a thick grey bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

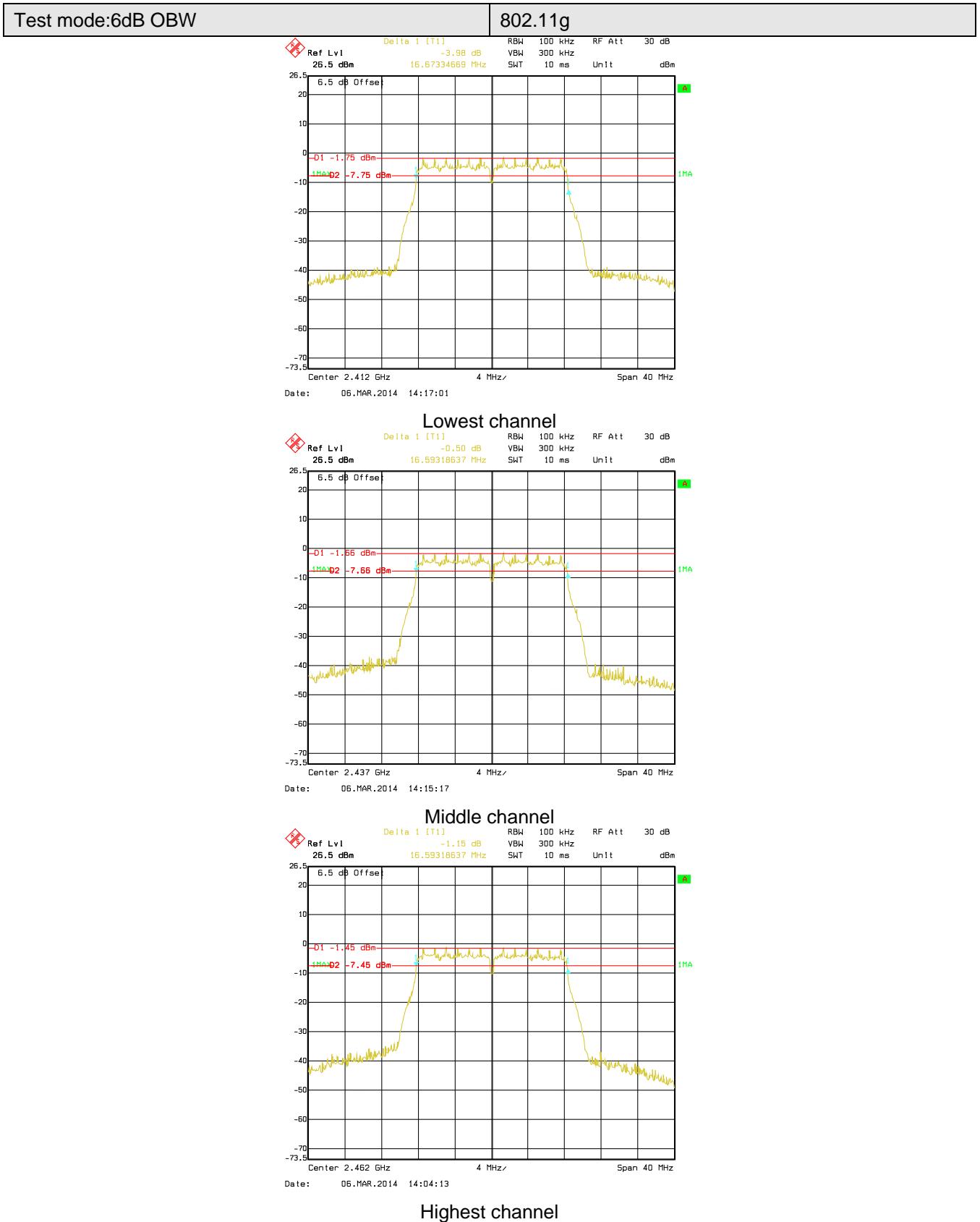
### Measurement Data

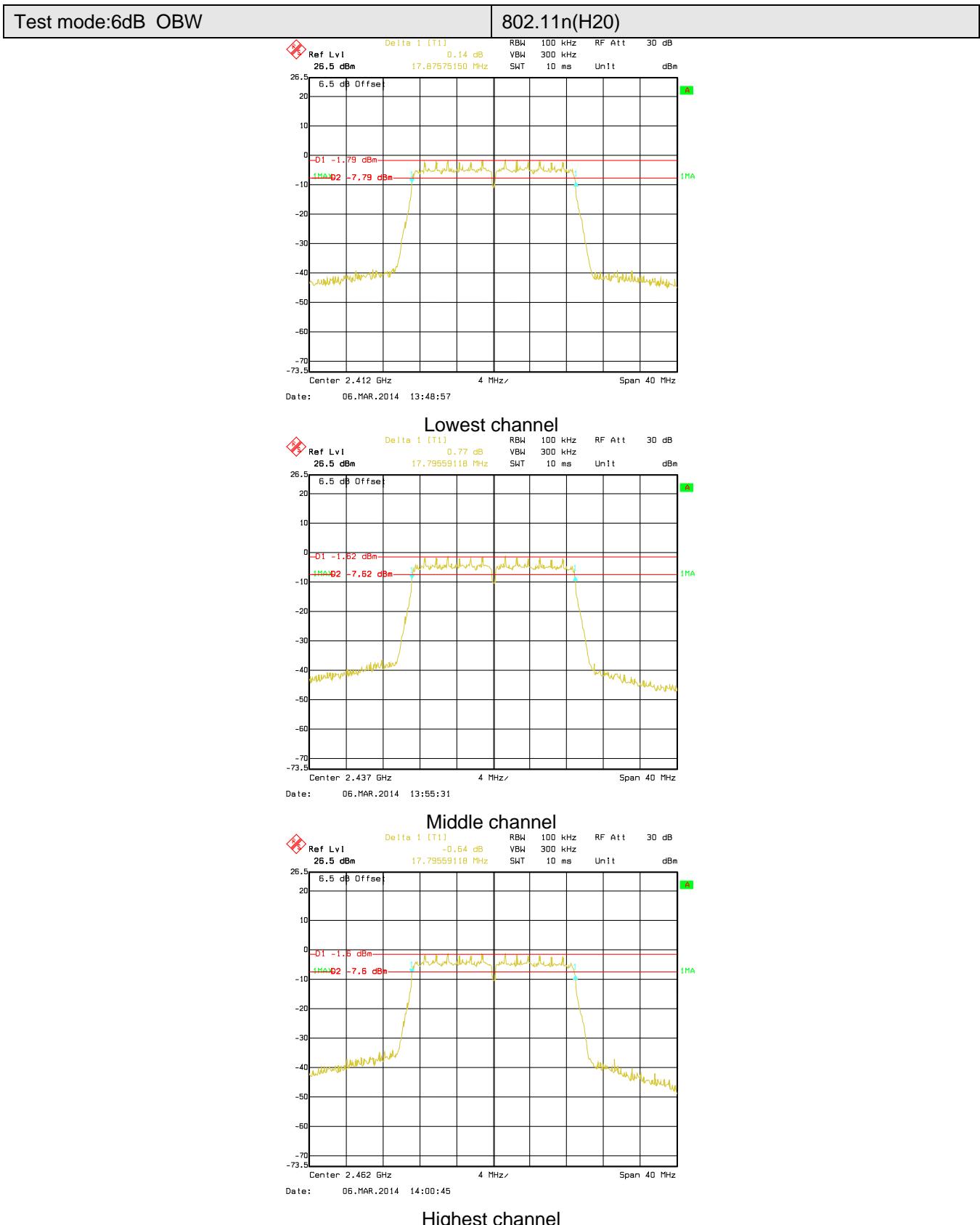
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.26	16.67	17.88	36.55	>500	Pass
Middle	10.26	16.59	17.80	36.39		
Highest	10.26	16.59	17.80	36.71		

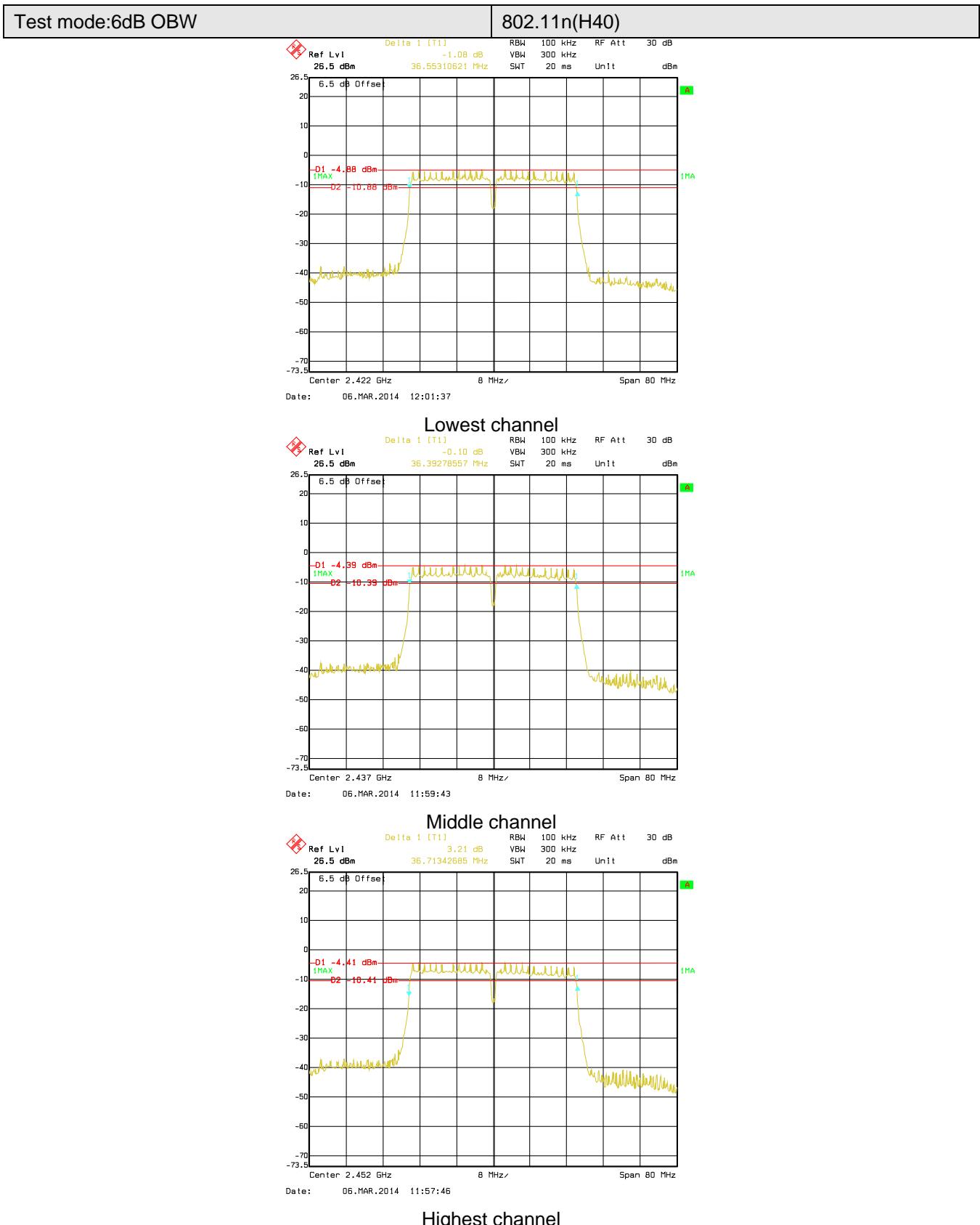
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	14.35	16.59	17.72	36.07	N/A	N/A
Middle	14.35	16.59	17.72	36.07		
Highest	14.35	16.59	17.72	36.07		

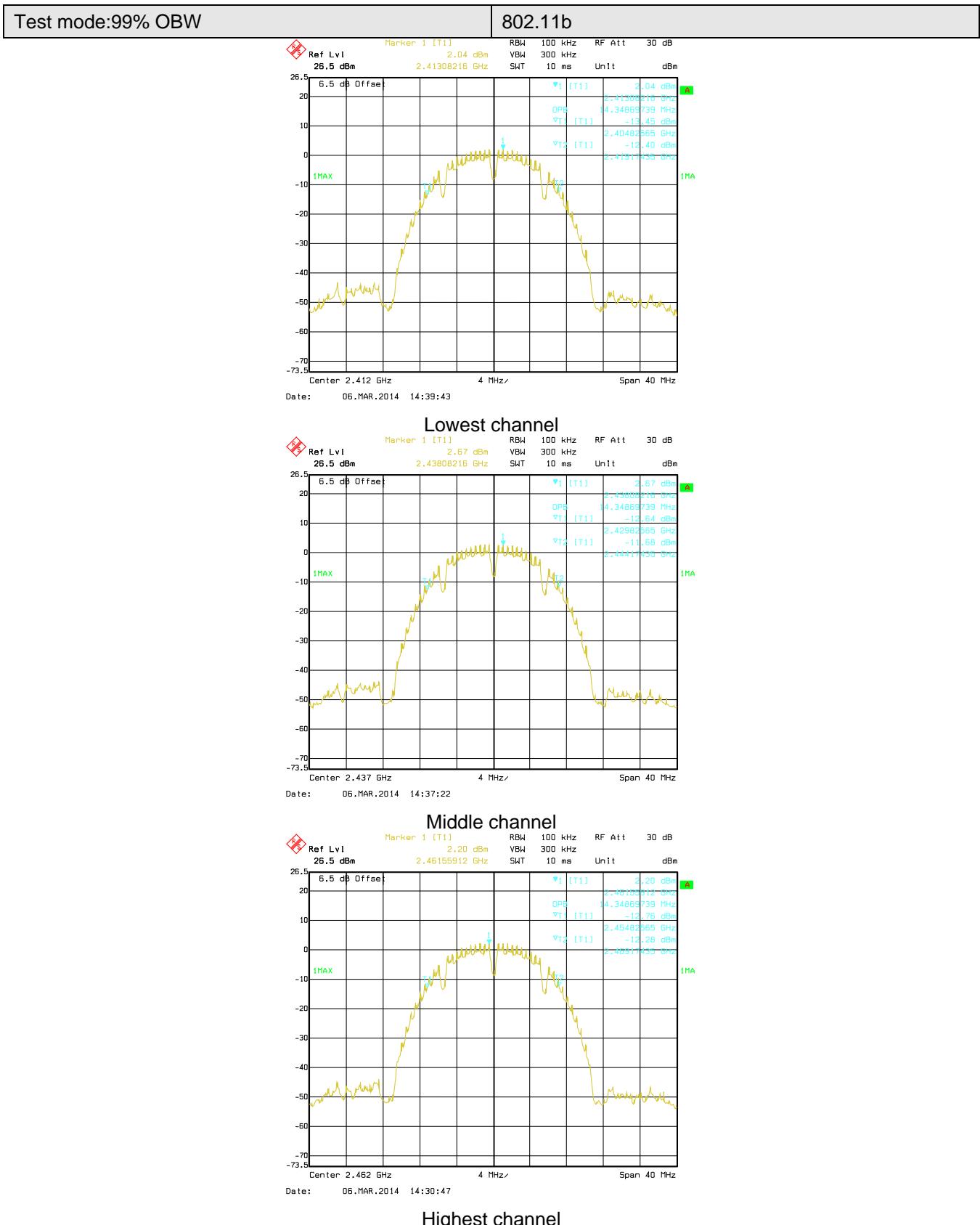
Test plot as follows:

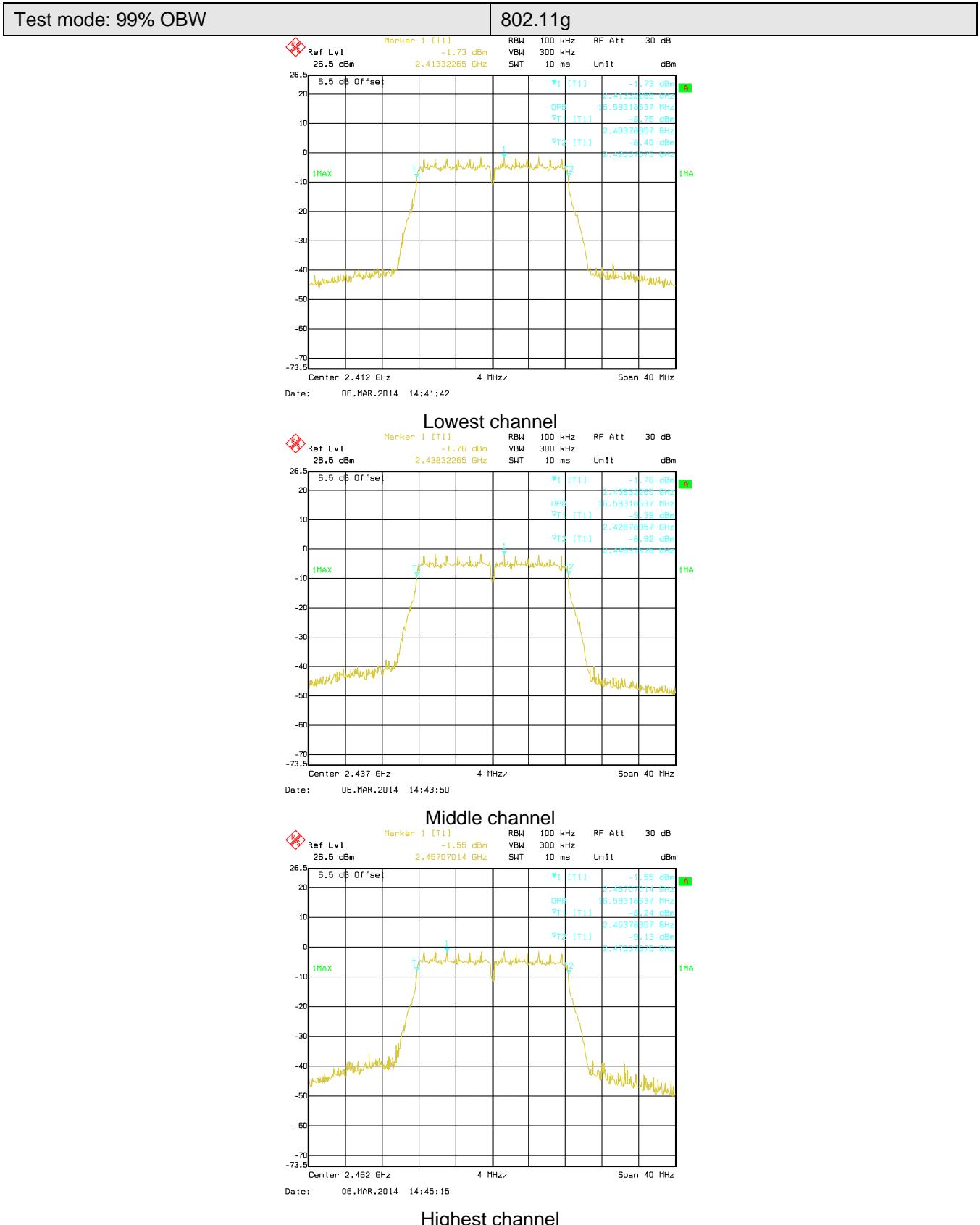


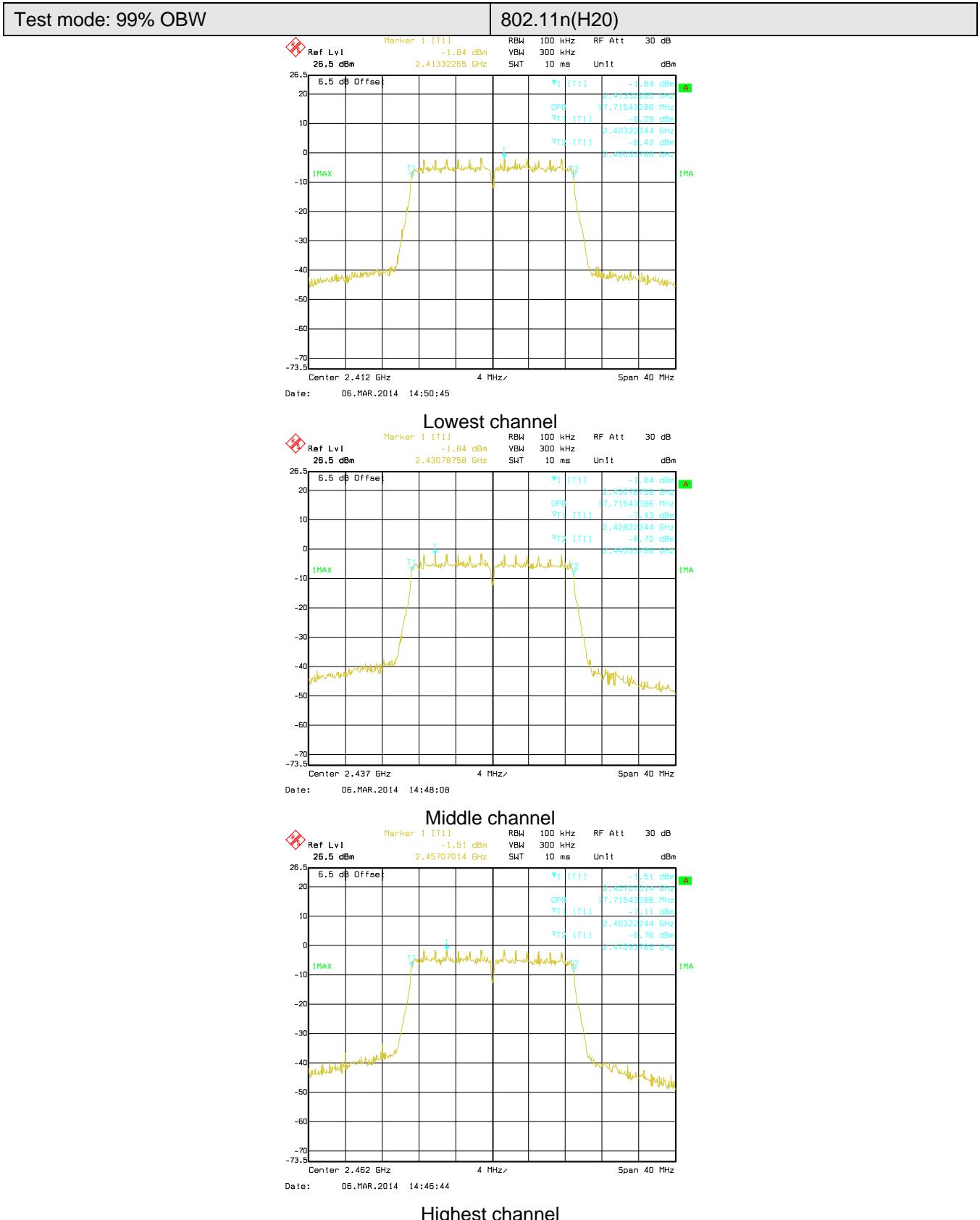


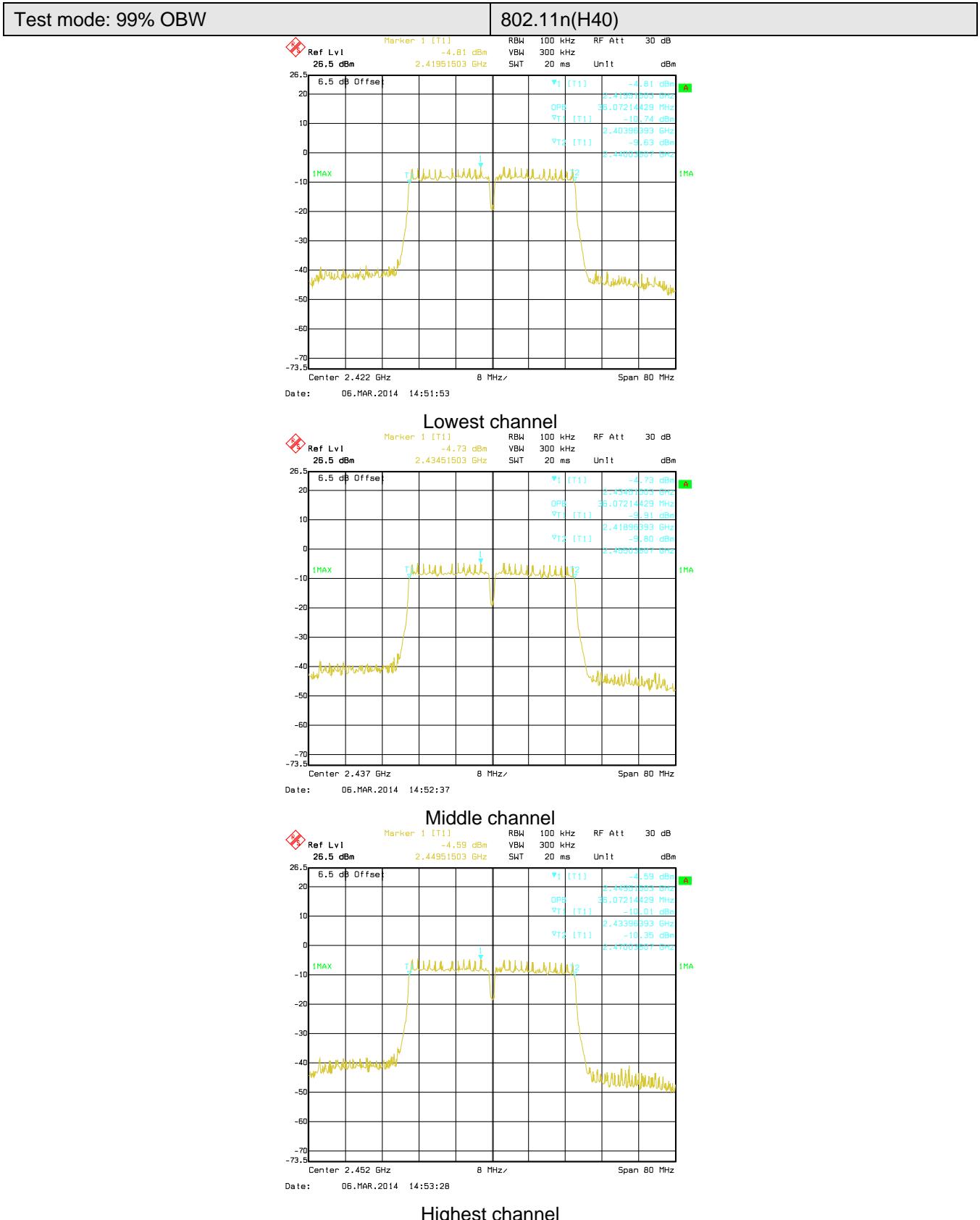




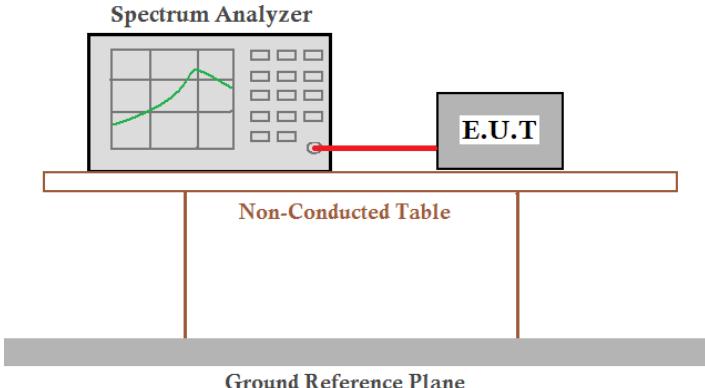








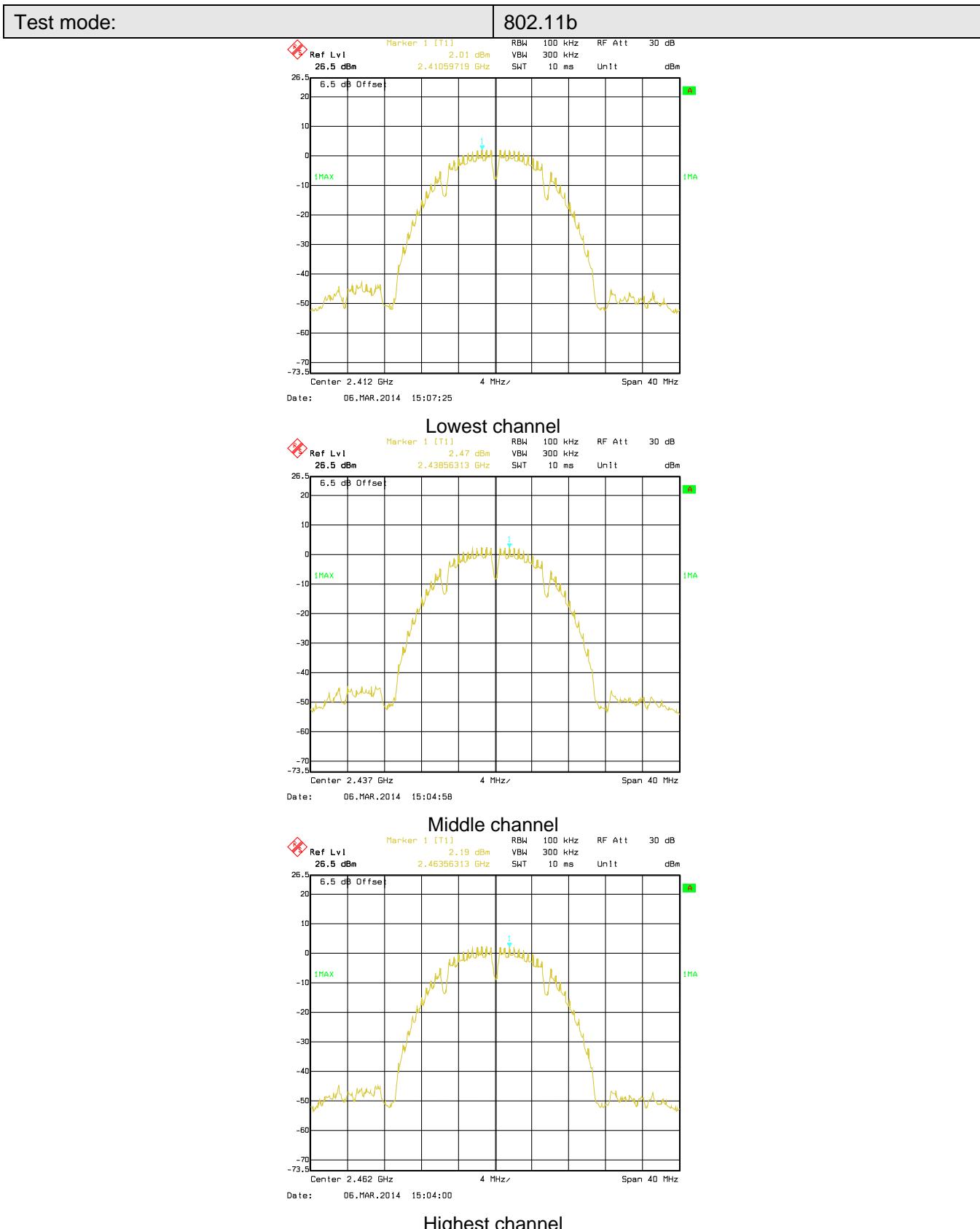
## 6.5 Power Spectral Density

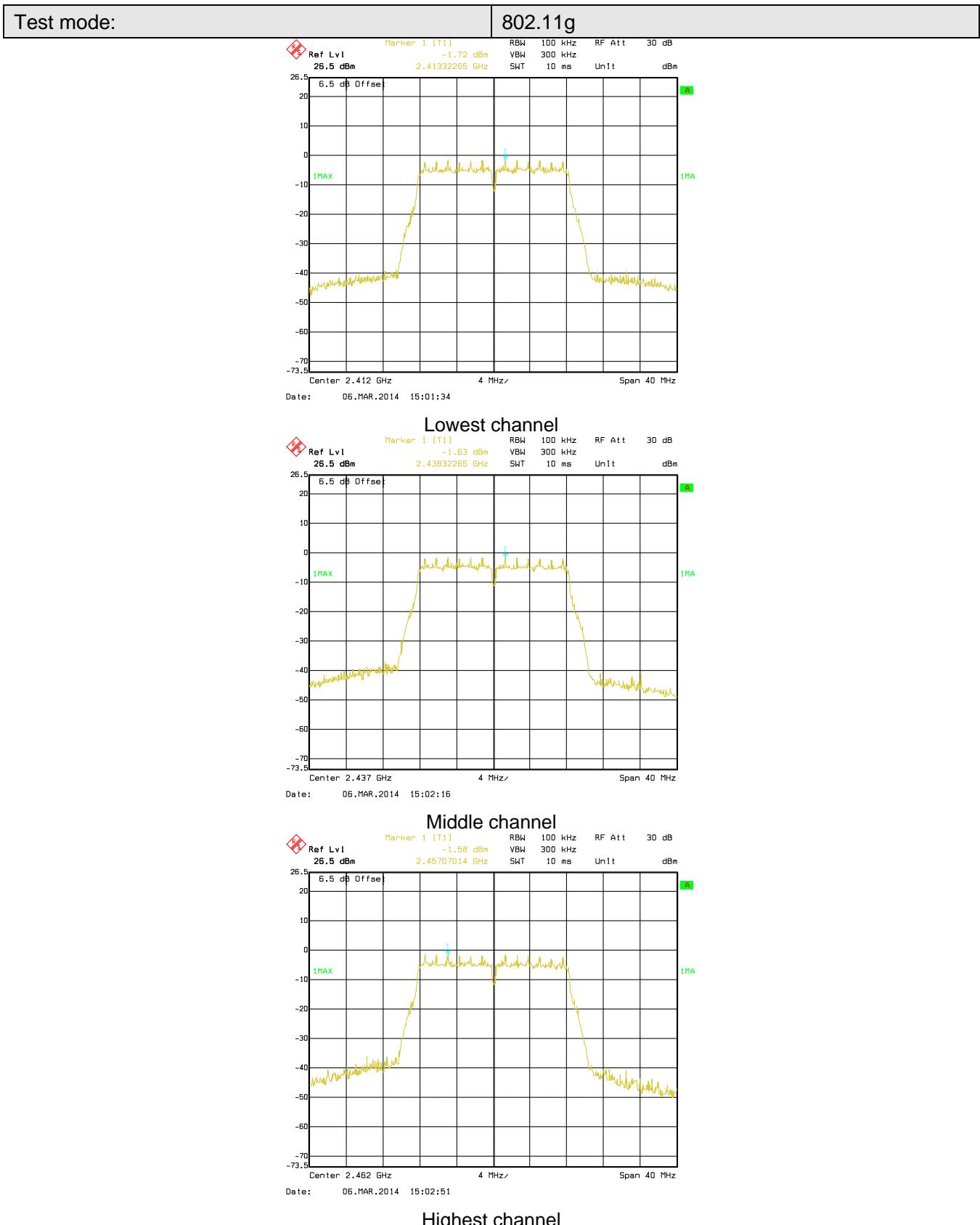
Test Requirement:	FCC Part15 C Section 15.247 (e) and RSS-210 section A8.2 (b)
Test Method:	ANSI C63.4:2003 and KDB558074 / RSS-210 section A8.2 (b) and KDB558074
Limit:	8dBm
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

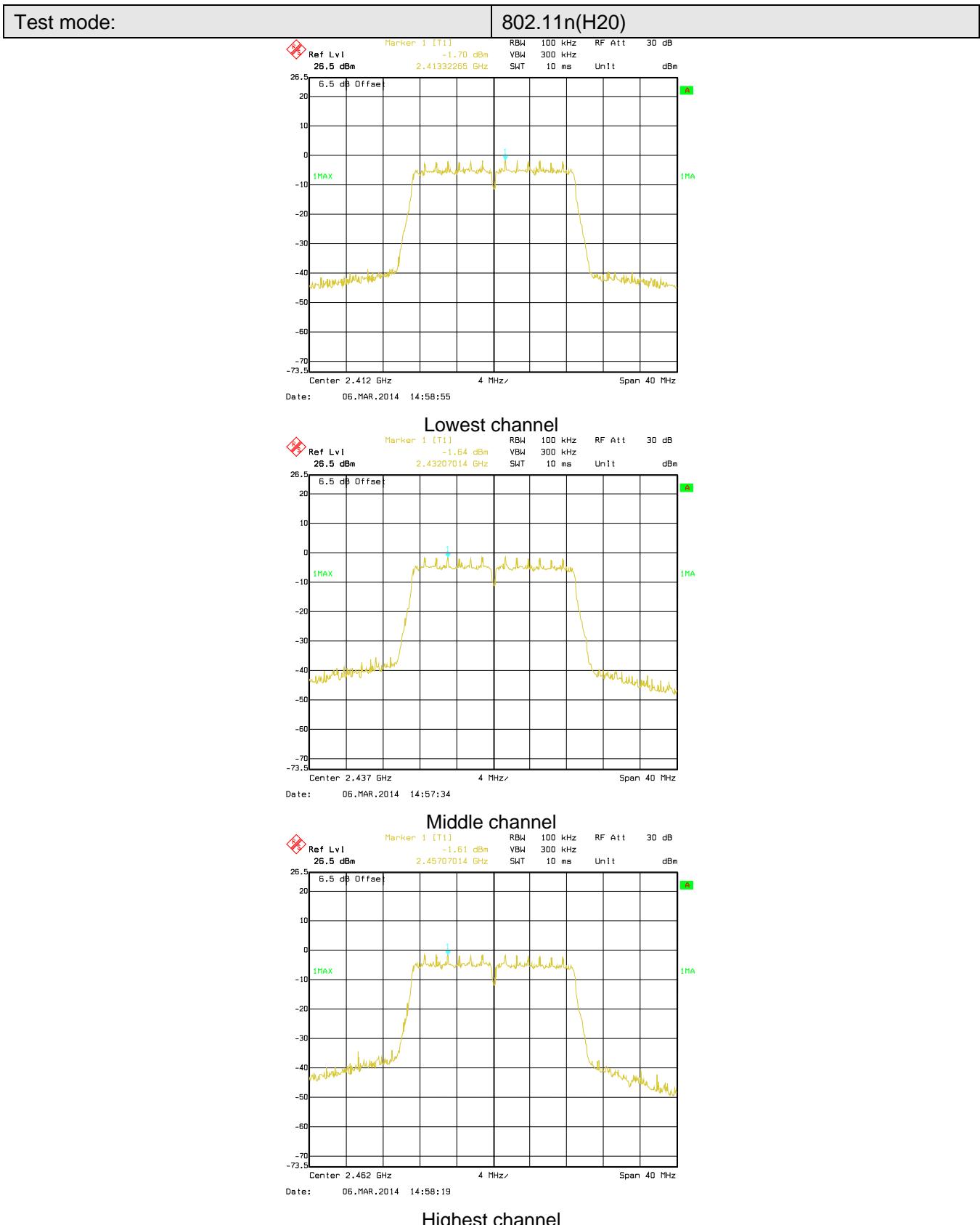
### Measurement Data

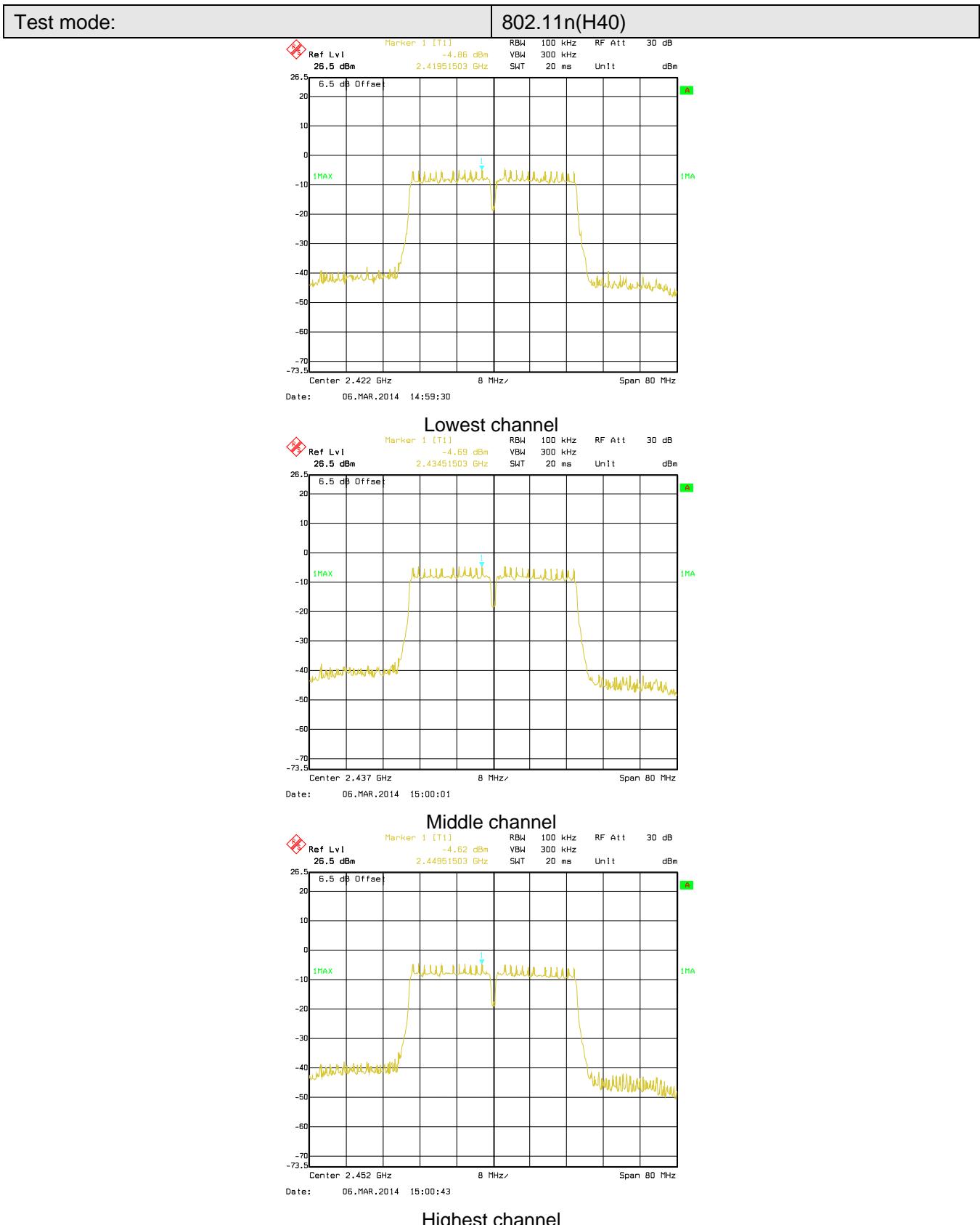
Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	2.01	-1.72	-1.70	-4.86	8.00	Pass
Middle	2.47	-1.63	-1.64	-4.69		
Highest	2.19	-1.58	-1.61	-4.62		

Test plot as follows:



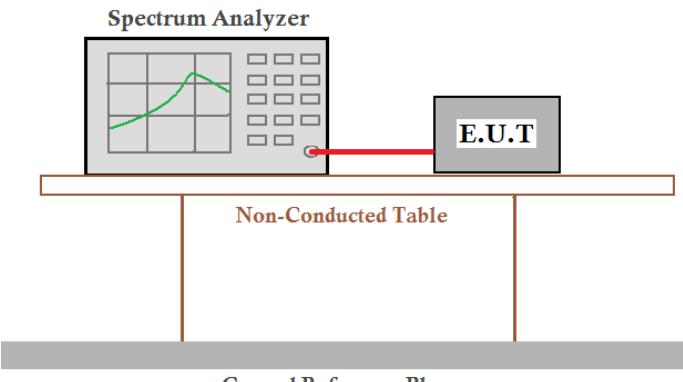




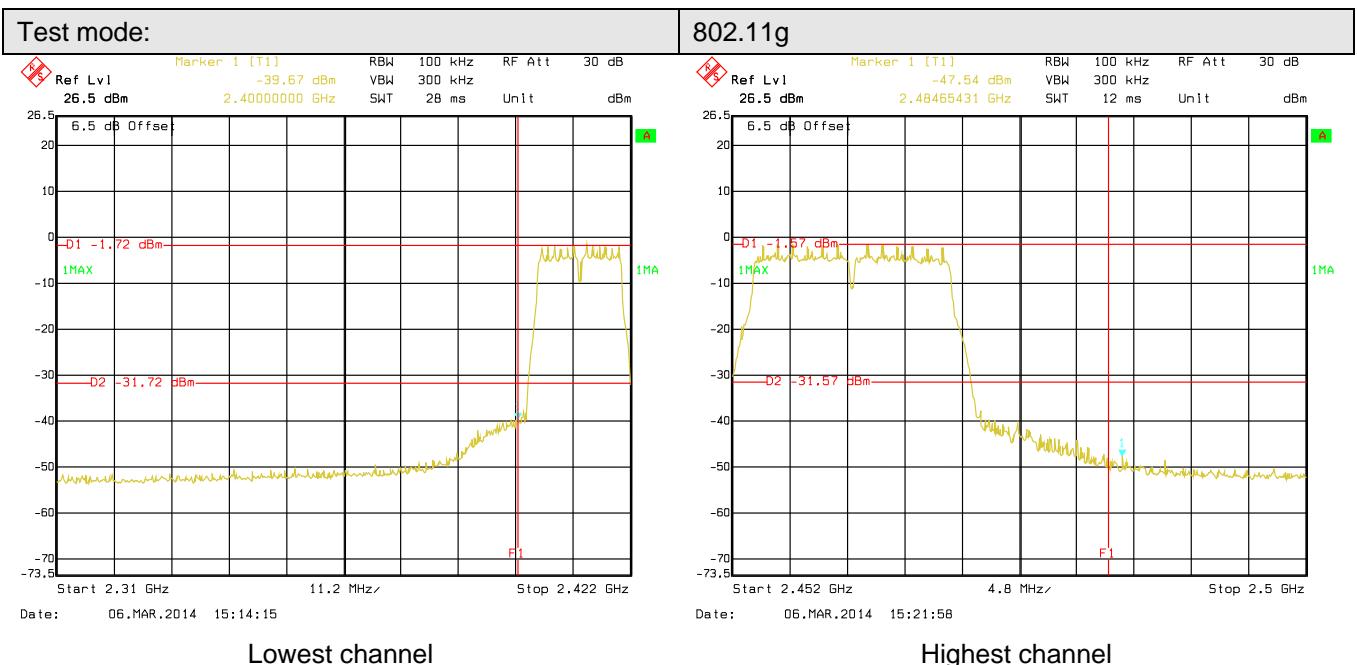
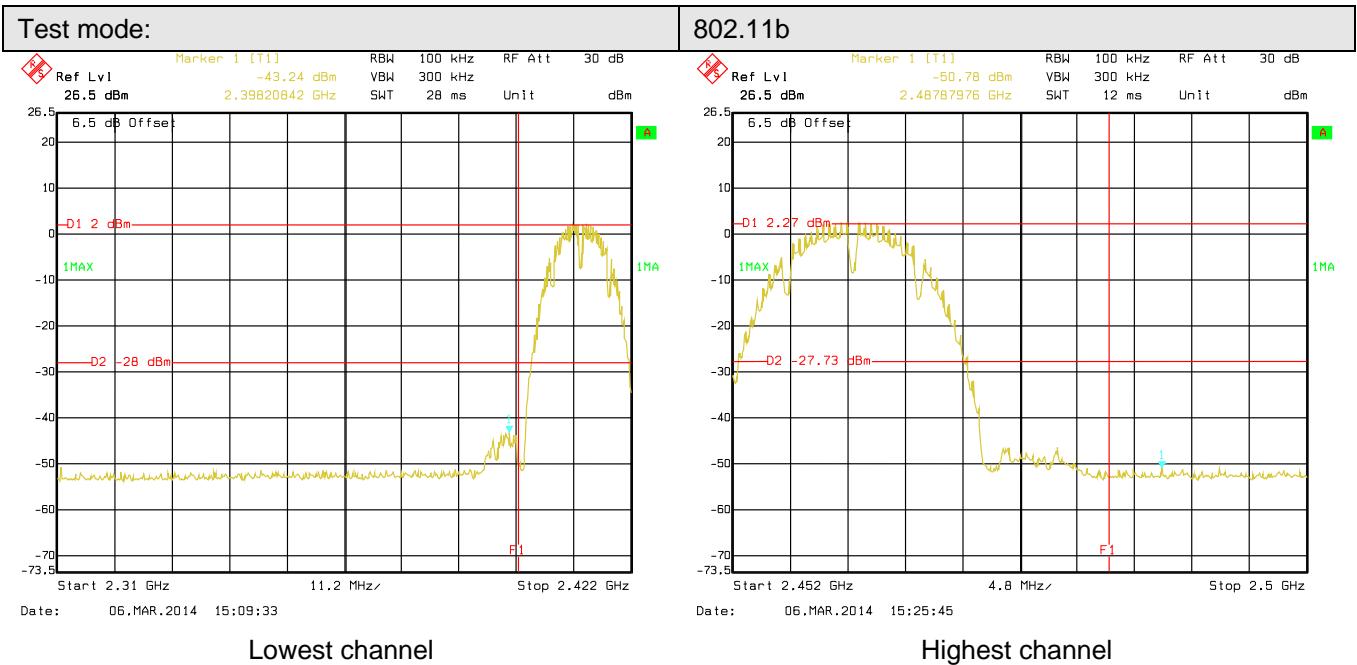


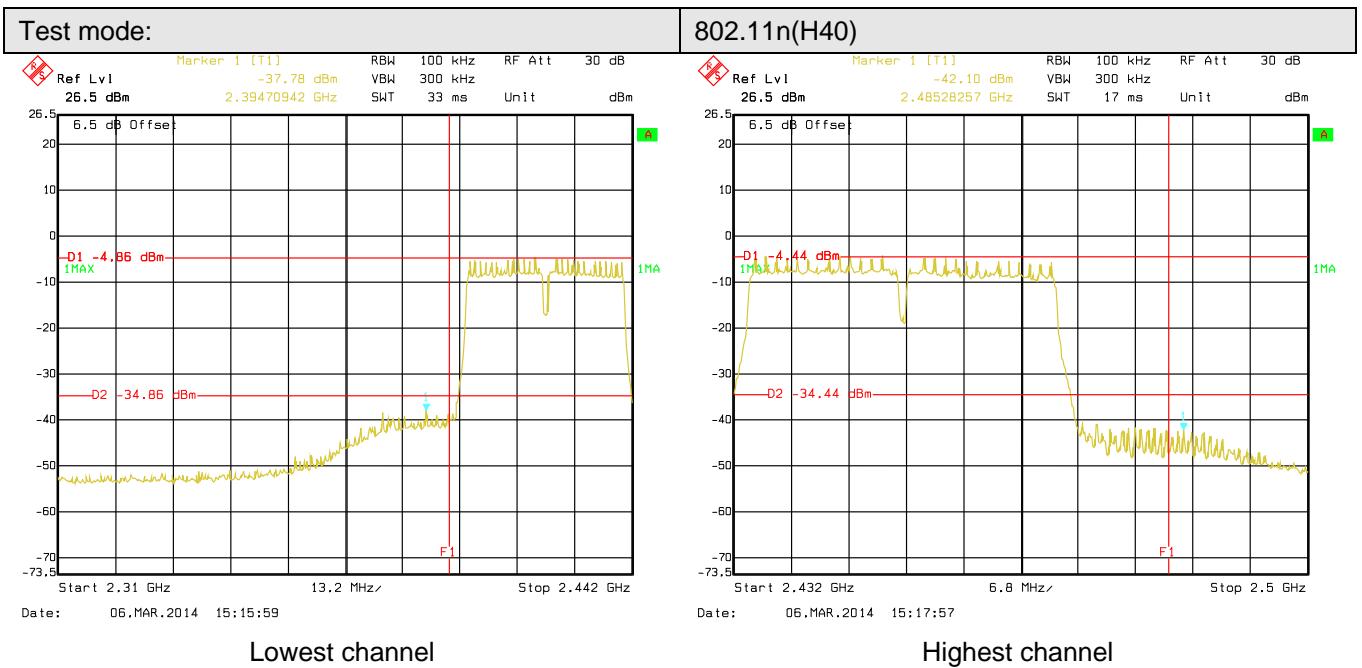
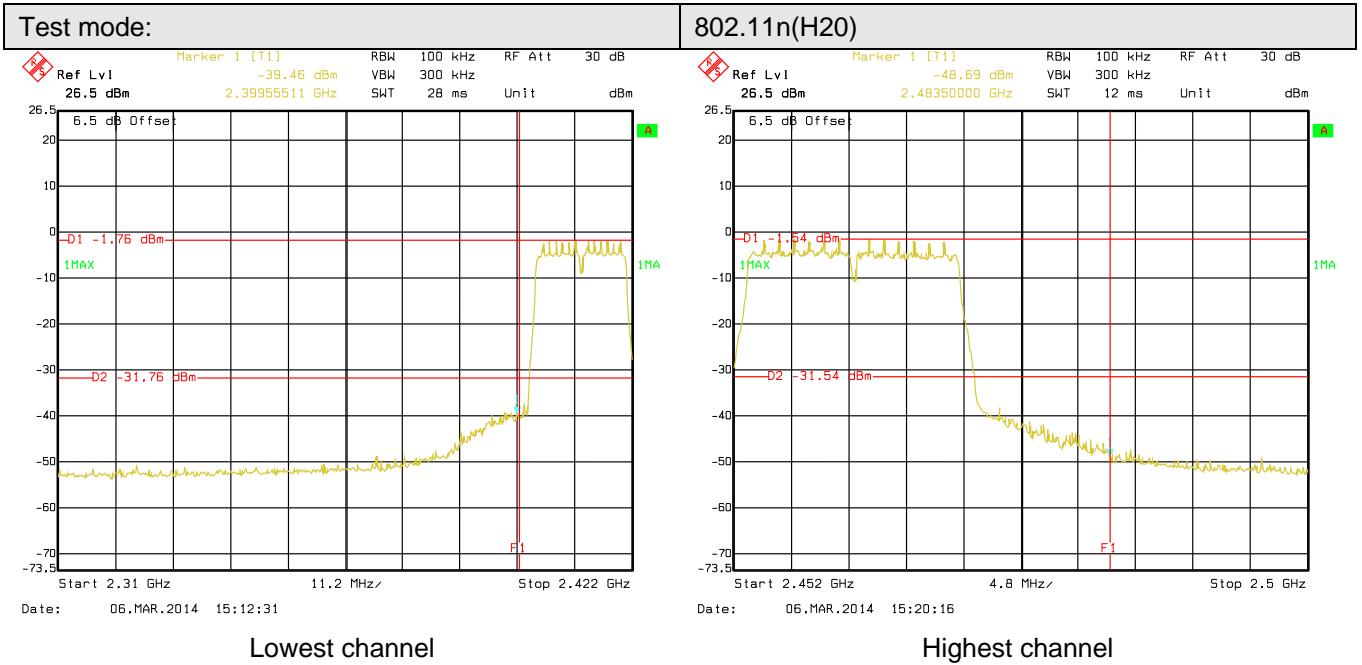
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d) and RSS-210 section A8.5
Test Method:	ANSI C63.4:2003 and KDB558074 / RSS-210 section A8.5
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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:





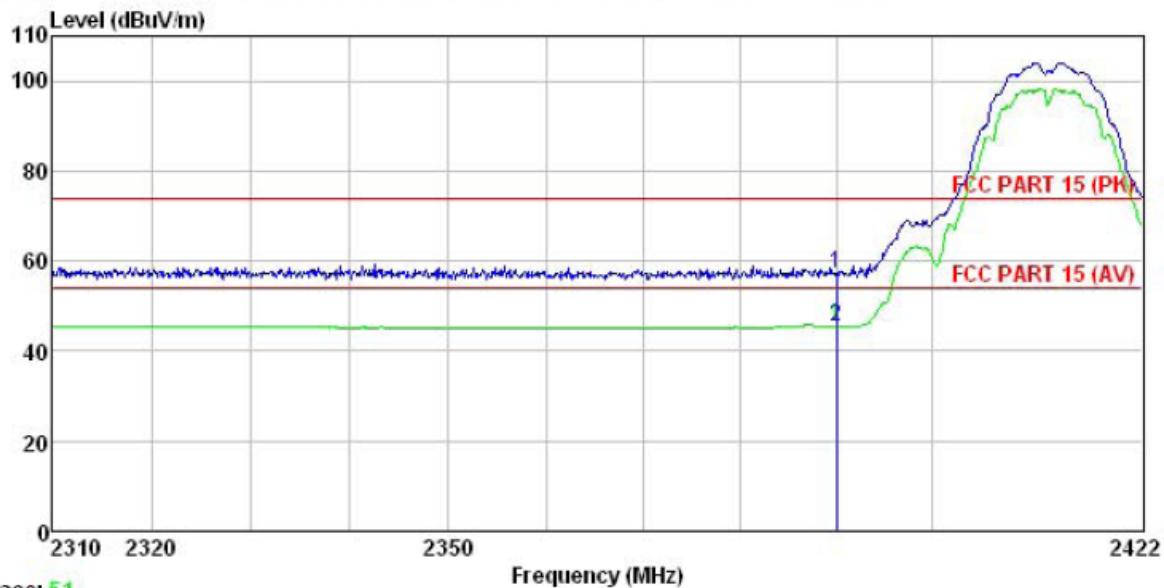
### 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205 and RSS-210 section A8.5																			
Test Method:	ANSI C63.4: 2003 / RSS-Gen section 4.9																			
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> </ol>																			
Test setup:																				
Test Instruments:	Refer to section 5.7 for details																			
Test mode:	Refer to section 5.3 for details																			
Test results:	Passed																			

802.11b

Test channel: Lowest

Horizontal:

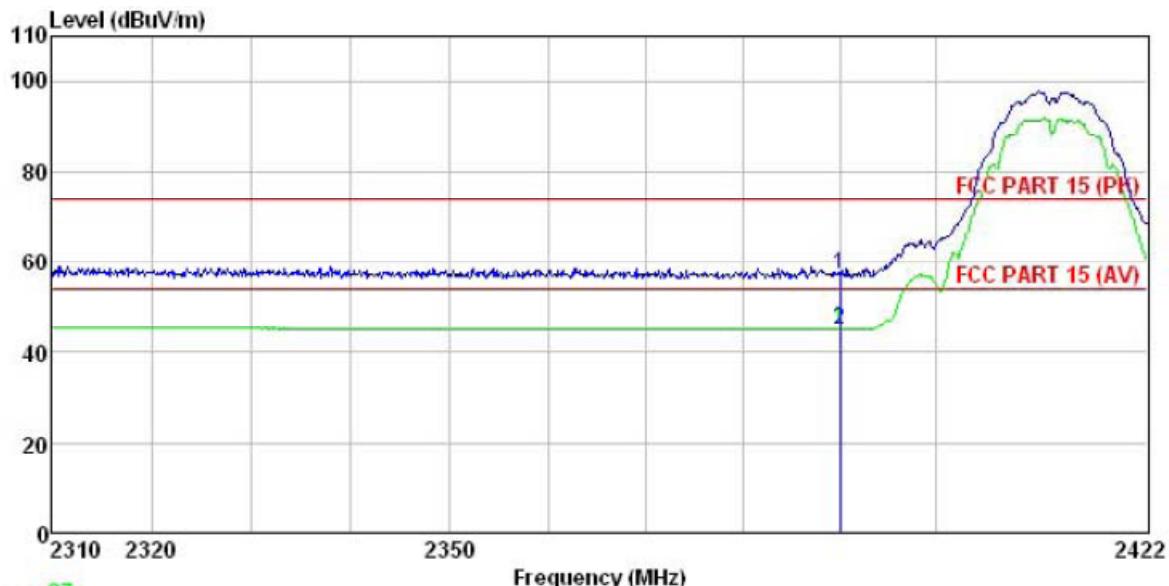


Trace: 51

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX(802.11b low channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	
-----	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	-----
1	2390.000	24.00	27.58	5.67	0.00	57.25	74.00	-16.75 Peak
2	2390.000	12.02	27.58	5.67	0.00	45.27	54.00	-8.73 Average

Vertical :



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

Job No. : 038RF

EUT : DECT Phone

Test mode : Wifi TX(802.11b low channel) mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

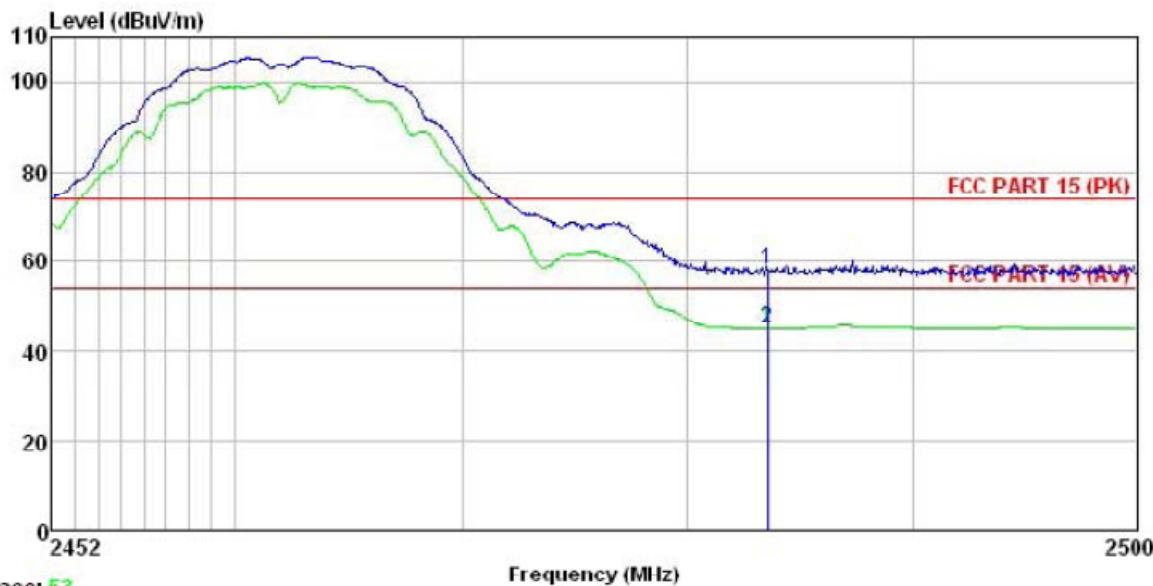
Test Engineer: Winner

Remark : Handset

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	24.14	27.58	5.67	0.00	57.39	74.00	-16.61 Peak
2	2390.000	11.69	27.58	5.67	0.00	44.94	54.00	-9.06 Average

Test channel: Highest

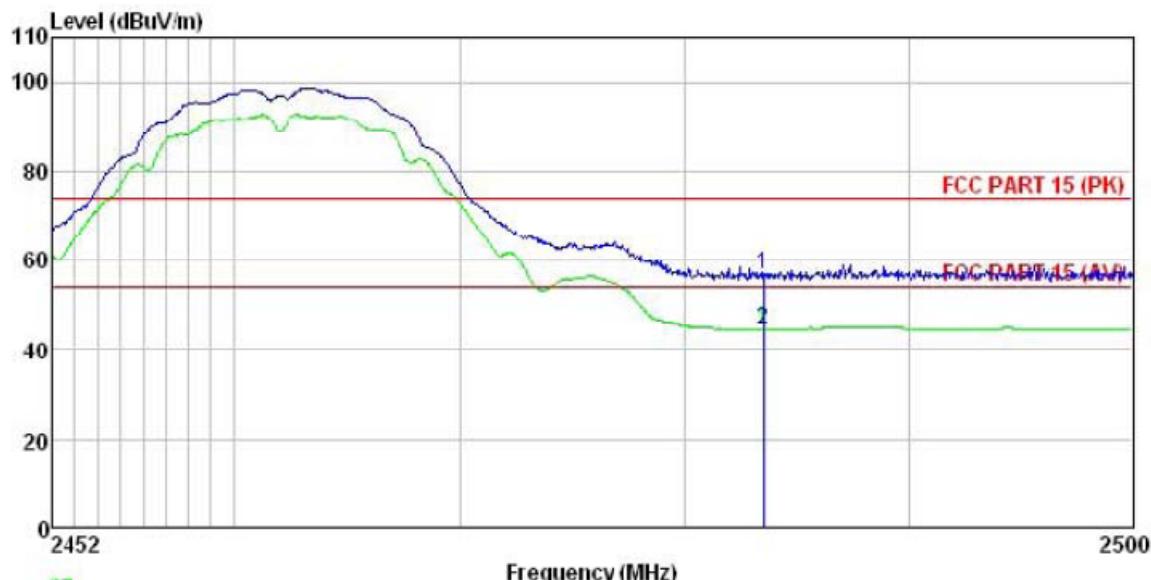
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX(802.11b high channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	24.99	27.52	5.70	0.00	58.21	74.00 -15.79 Peak
2	2483.500	11.93	27.52	5.70	0.00	45.15	54.00 -8.85 Average

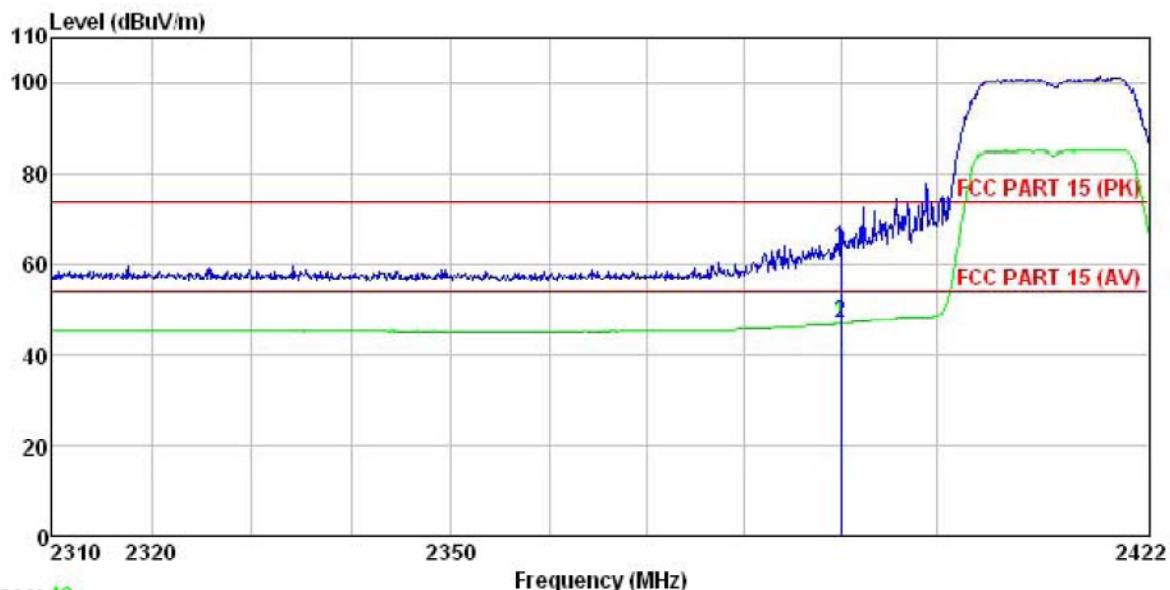
Vertical :



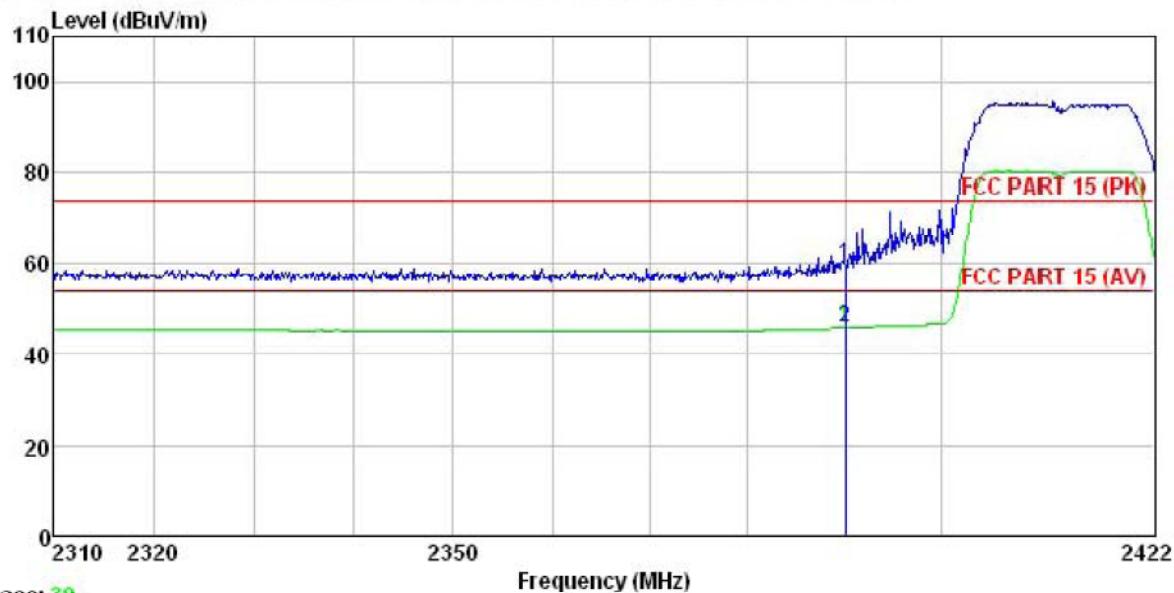
802.11g

Test channel: Lowest

Horizontal :



Vertical :



Trace: 39

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18) VERTICAL

Job No. : 038RF

EUT : DECT Phone

Test mode : Wifi TX(802.11g low channel) mode

Power Rating : AC 120V/60Hz

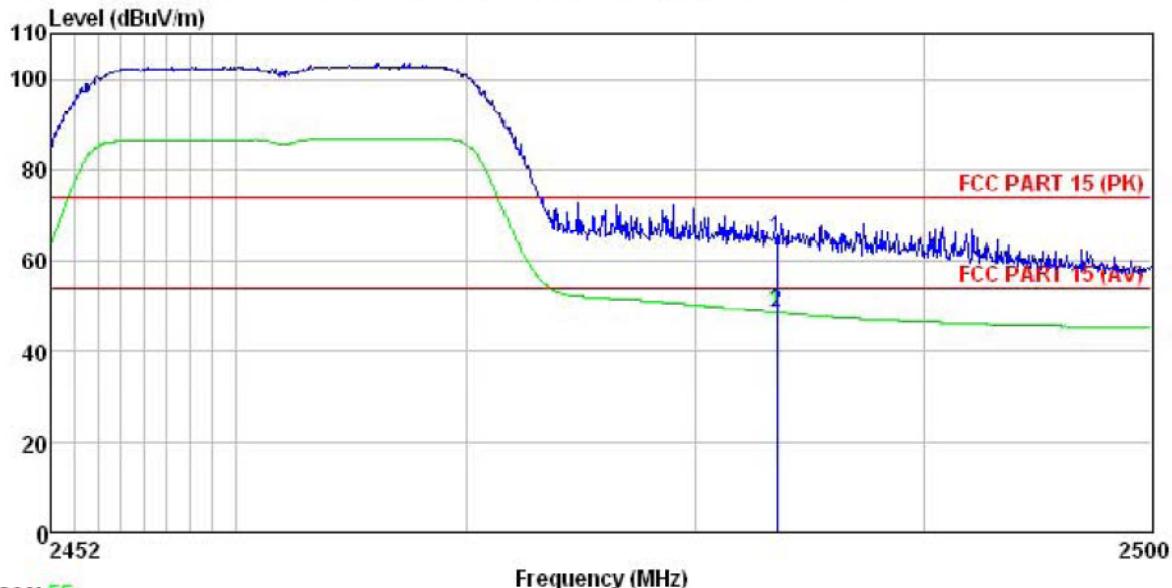
Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	26.54	27.58	5.67	0.00	59.79	74.00 -14.21 Peak
2	2390.000	12.54	27.58	5.67	0.00	45.79	54.00 -8.21 Average

Test channel: Highest



Trace: 55

Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18) HORIZONTAL

Job No. : 038RF

EUT : DECT Phone

Test mode : Wifi TX(802.11g high channel) mode

Power Rating : AC 120V/60Hz

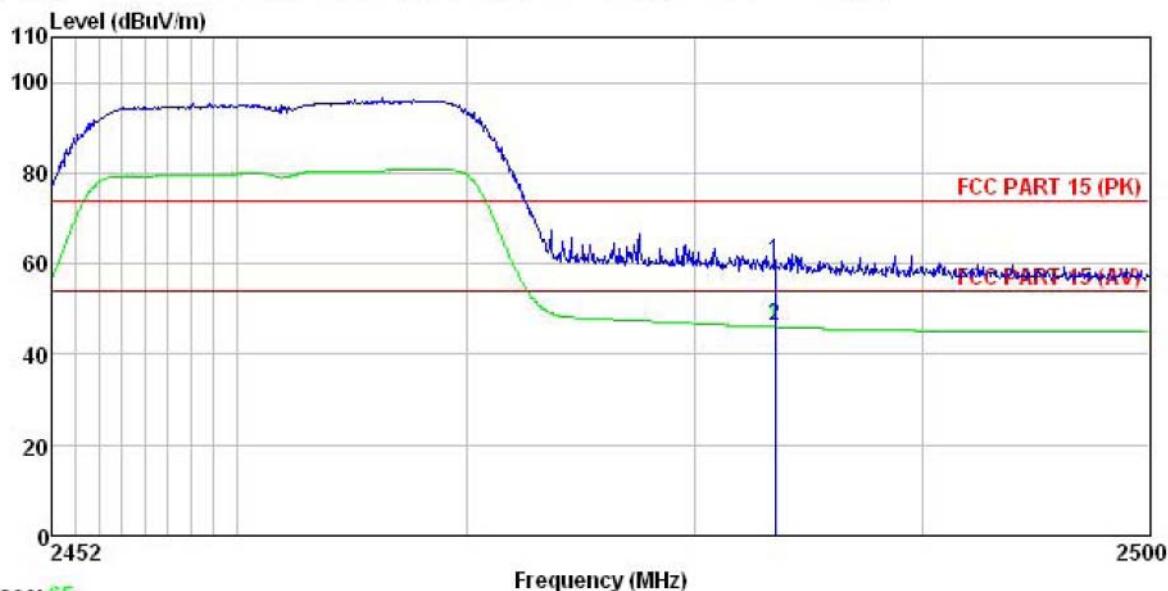
Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	31.69	27.52	5.70	0.00	64.91	74.00 -9.09 Peak
2	2483.500	15.49	27.52	5.70	0.00	48.71	54.00 -5.29 Average

Vertical :

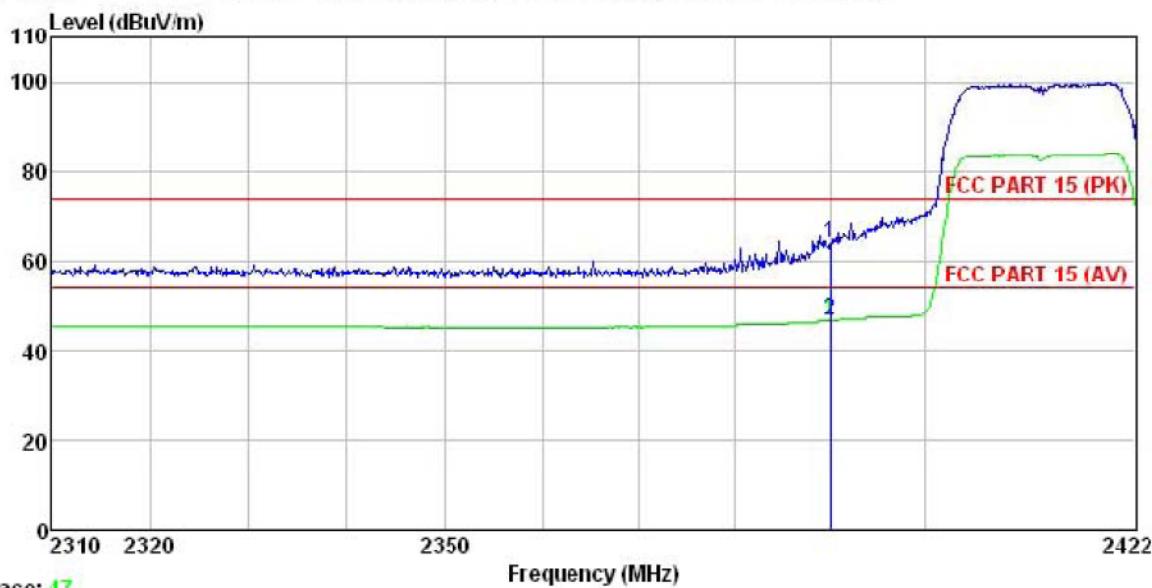


Trace: 65

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX(802.11g high channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	27.19	27.52	5.70	0.00	60.41	74.00 -13.59 Peak
2	2483.500	12.86	27.52	5.70	0.00	46.08	54.00 -7.92 Average

802.11n (H20)  
Test channel: Lowest  
Horizontal :

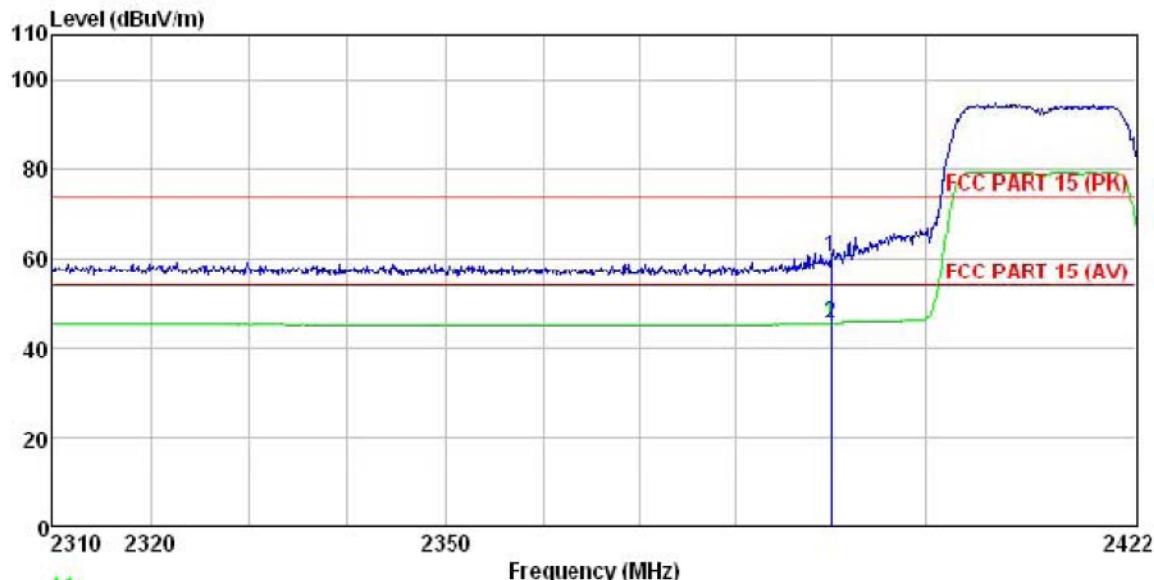


Trace: 47

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX (802.11n20 low channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dB <sub>UV</sub>	dB/m	dB	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub> /m	dB
1	2390.000	30.94	27.58	5.67	0.00	64.19	74.00 -9.81 Peak
2	2390.000	13.51	27.58	5.67	0.00	46.76	54.00 -7.24 Average

Vertical :

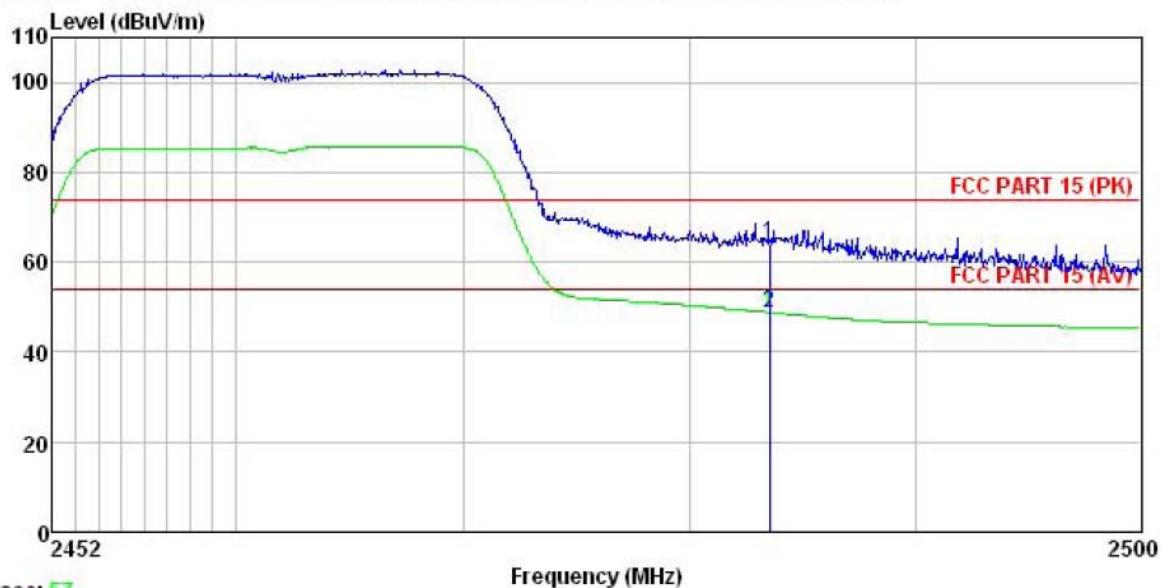


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX (802.11n20 low channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dB <sub>UV</sub>	dB/m	dB	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub> /m	dB	
1	2390.000	27.07	27.58	5.67	0.00	60.32	74.00	-13.68 Peak
2	2390.000	12.40	27.58	5.67	0.00	45.65	54.00	-8.35 Average

Test channel: Highest

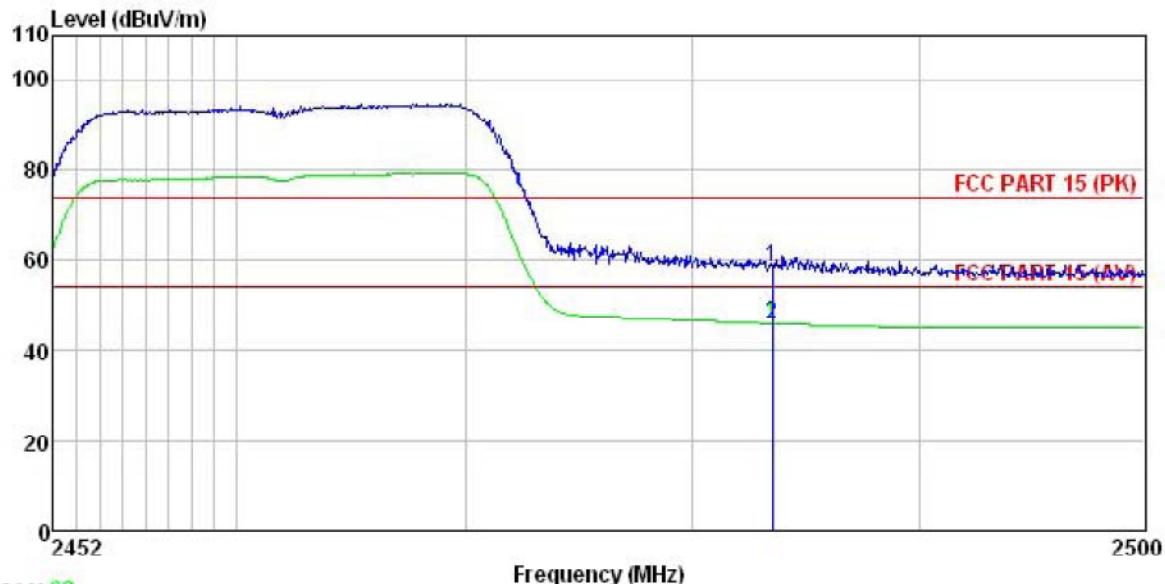
Horizontal :



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
 Job No. : 038RF  
 EUT : DECT Phone  
 Test mode : Wifi TX(802.11n20 high channel) mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Huni:55%  
 Test Engineer: Winner  
 Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2483.500	30.74	27.52	5.70	0.00	63.96	74.00	-10.04	Peak
2 2483.500	15.64	27.52	5.70	0.00	48.86	54.00	-5.14	Average

Vertical :

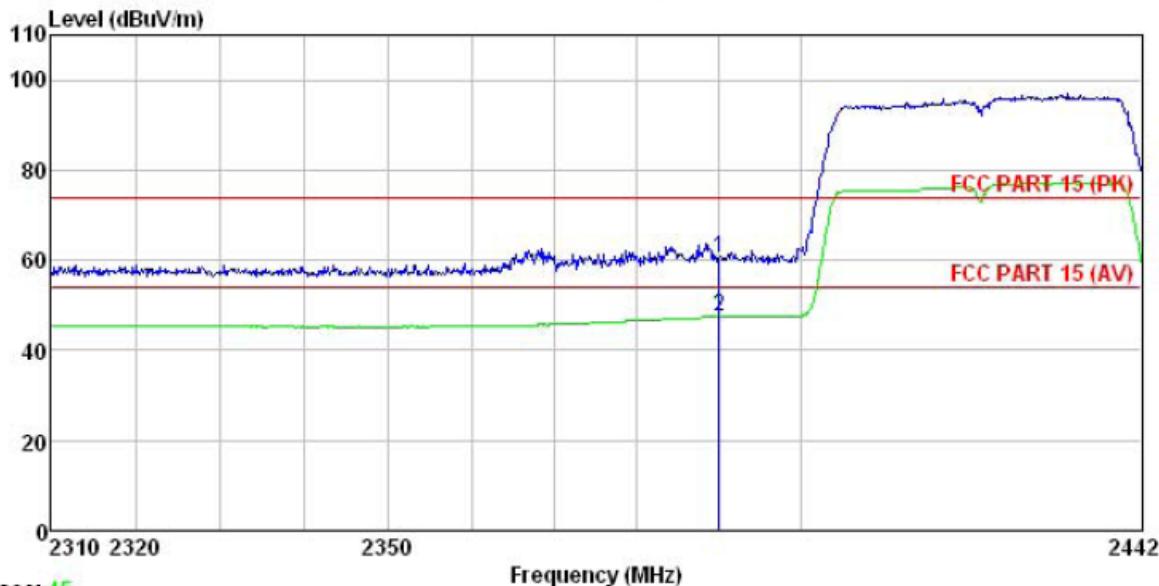


Trace: 63

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX(802.11n20 high channel) mode  
Power Rating : AC 120W/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	25.11	27.52	5.70	0.00	58.33	74.00	-15.67 Peak
2	2483.500	12.75	27.52	5.70	0.00	45.97	54.00	-8.03 Average

802.11n (H40)  
Test channel: Lowest  
Horizontal :



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

Job No. : 038RF

EUT : DECT Phone

Test mode : Wifi TX(802.11n40 low channel) mode

Power Rating : AC 120V/60Hz

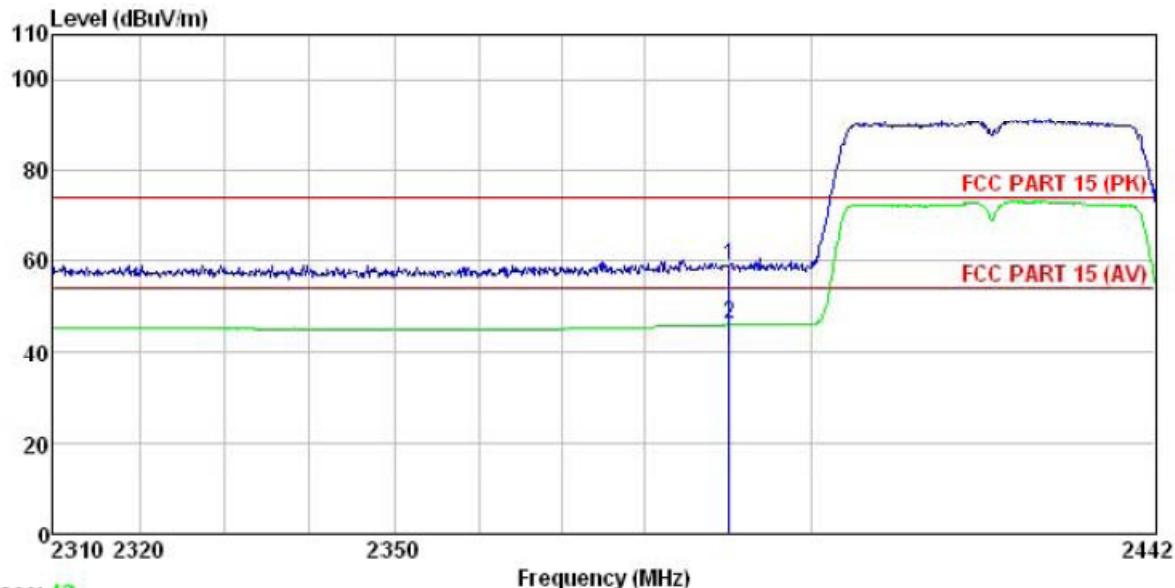
Environment : Temp:25.5°C Huni:55%

Test Engineer: Winer

Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	27.10	27.58	5.67	0.00	60.35	74.00	-13.65 Peak
2	2390.000	14.15	27.58	5.67	0.00	47.40	54.00	-6.60 Average

Vertical :



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
 Job No. : 038RF

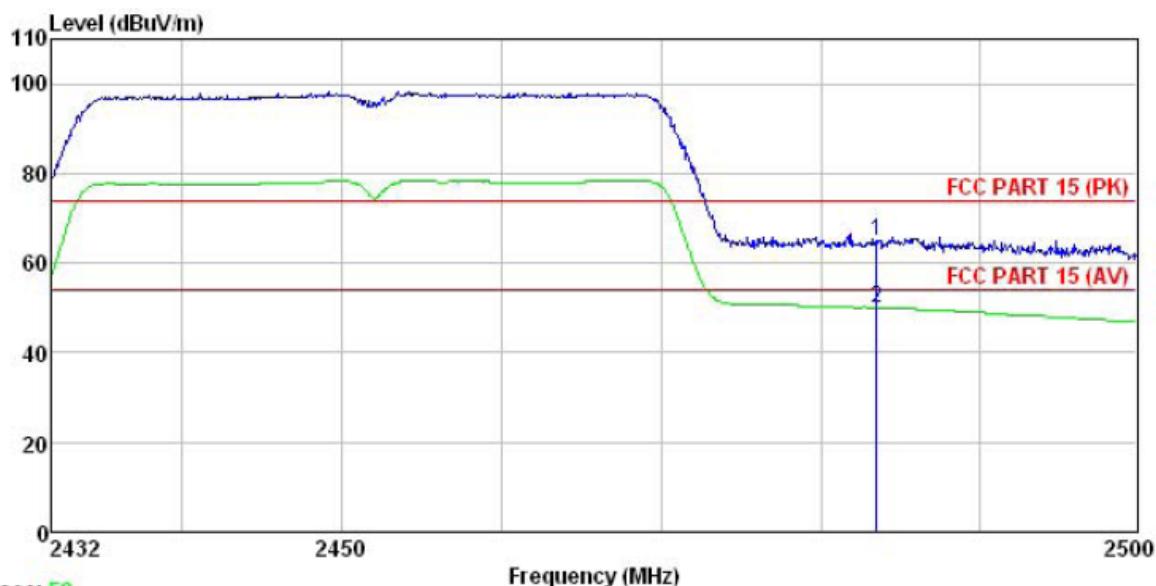
EUT : DECT Phone  
 Test mode : Wifi TX(802.11n40 low channel) mode  
 Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%  
 Test Engineer: Winner  
 Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	25.79	27.58	5.67	0.00	59.04	74.00	-14.96	Peak
2 2390.000	12.85	27.58	5.67	0.00	46.10	54.00	-7.90	Average

Test channel: Highest

Horizontal :



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

Job No. : 038RF

EUT : DECT Phone

Test mode : Wifi TX(802.11n40 high channel) mode

Power Rating : AC 120V/60Hz

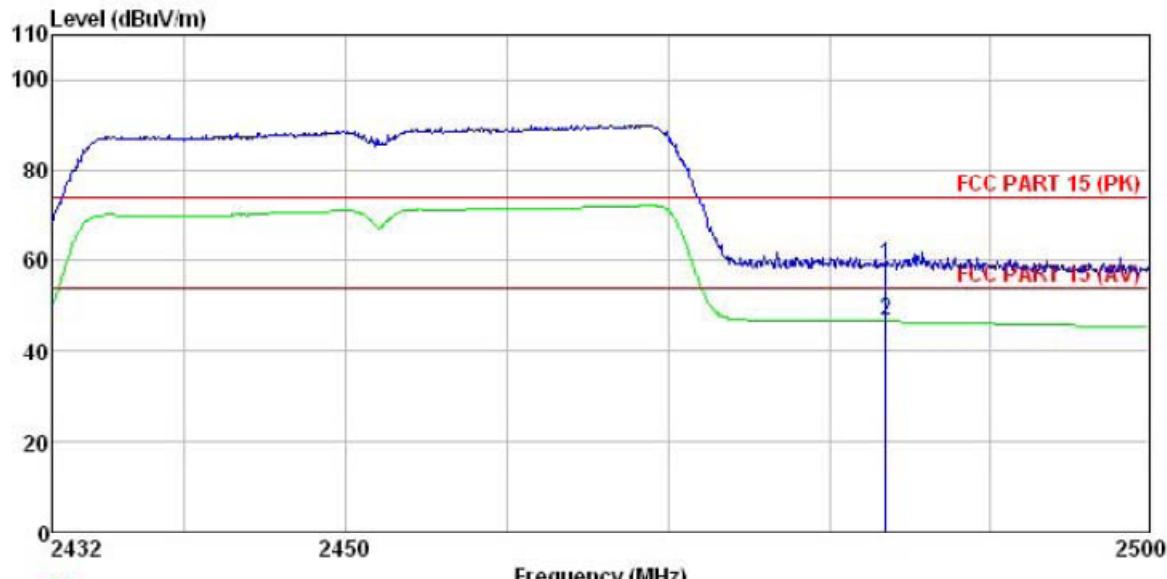
Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	31.87	27.52	5.70	0.00	65.09	74.00 -8.91 Peak
2	2483.500	16.89	27.52	5.70	0.00	50.11	54.00 -3.89 Average

Vertical :



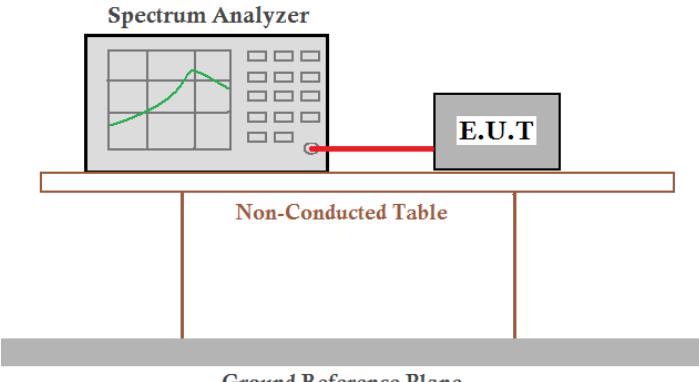
Trace: 61

Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX(802.11n40 high channel) mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	25.73	27.52	5.70	0.00	58.95	74.00 -15.05 Peak
2	2483.500	13.32	27.52	5.70	0.00	46.54	54.00 -7.46 Average

## 6.7 Spurious Emission

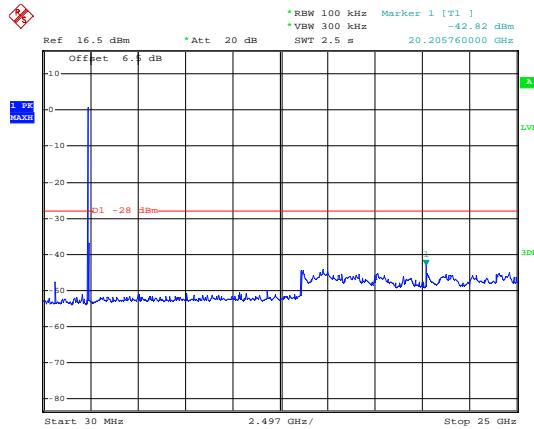
### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d) and RSS-210 section A8.5
Test Method:	ANSI C63.4:2003 and KDB558074 / RSS-210 section A8.5
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

Test mode:	802.11b
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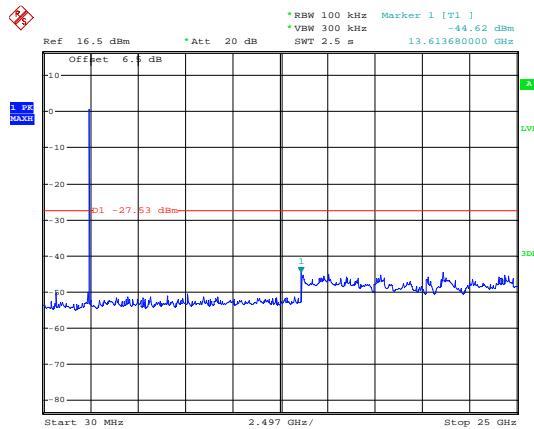
### Lowest channel



Date: 6.MAR.2014 16:11:52

### 30MHz~25GHz

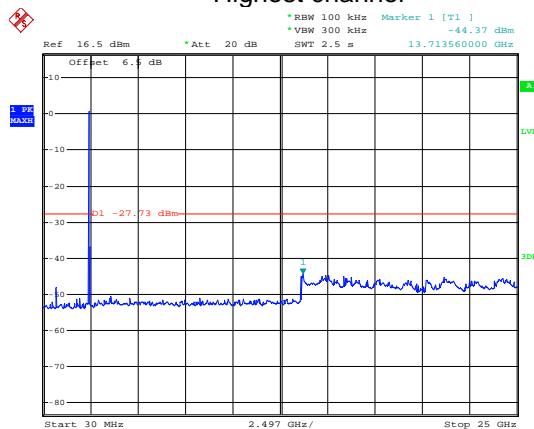
### Middle channel



Date: 6.MAR.2014 16:16:01

### 30MHz~25GHz

### Highest channel



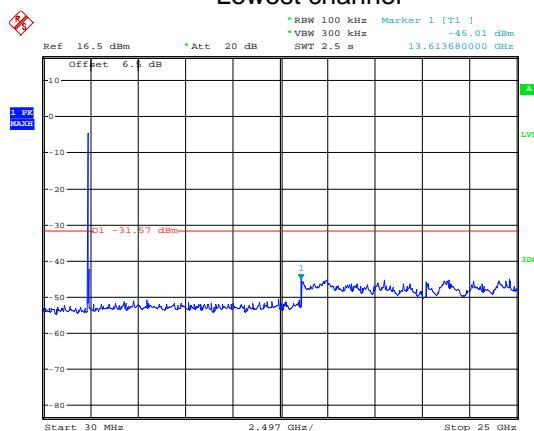
Date: 6.MAR.2014 16:20:11

30MHz~25GHz

Test mode:

802.11g

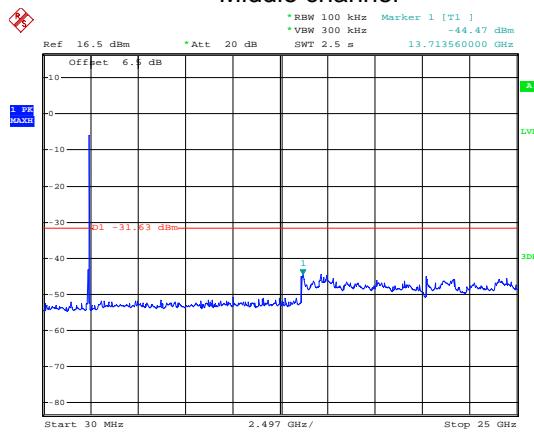
### Lowest channel



Date: 6.MAR.2014 16:26:53

30MHz~25GHz

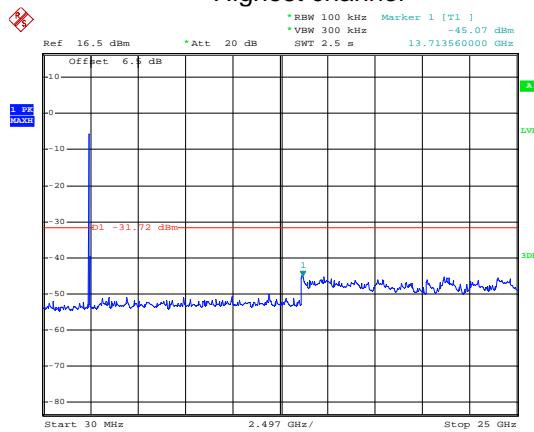
### Middle channel



Date: 6.MAR.2014 16:24:10

30MHz~25GHz

### Highest channel



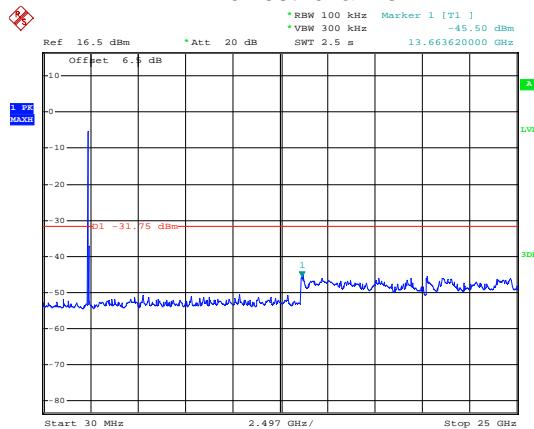
Date: 6.MAR.2014 16:25:26

30MHz~25GHz

Test mode:

802.11n(H20)

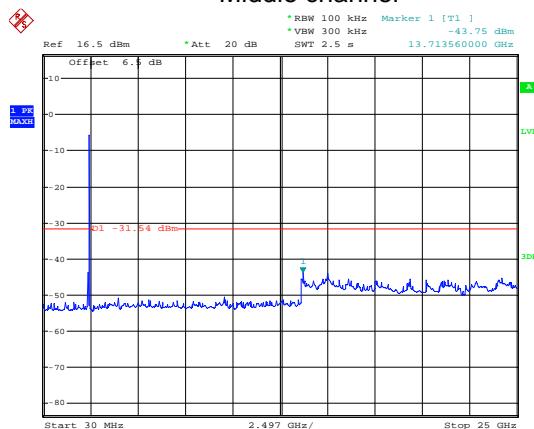
### Lowest channel



Date: 6.MAR.2014 16:28:59

30MHz~25GHz

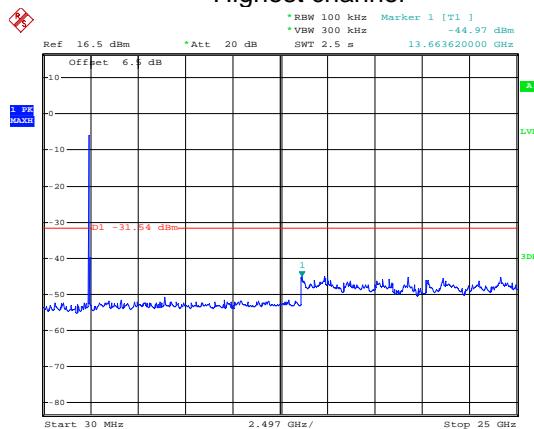
### Middle channel



Date: 6.MAR.2014 16:29:50

30MHz~25GHz

### Highest channel

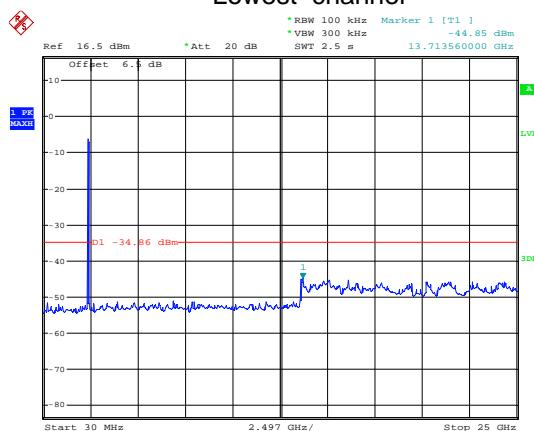


Date: 6.MAR.2014 16:30:42

30MHz~25GHz

Test mode:	802.11n(H40)
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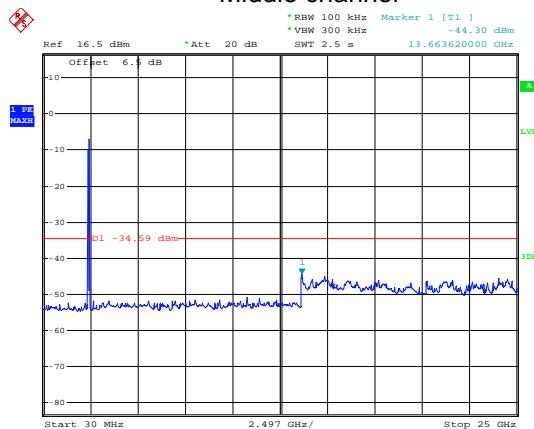
### Lowest channel



Date: 6.MAR.2014 16:31:47

30MHz~25GHz

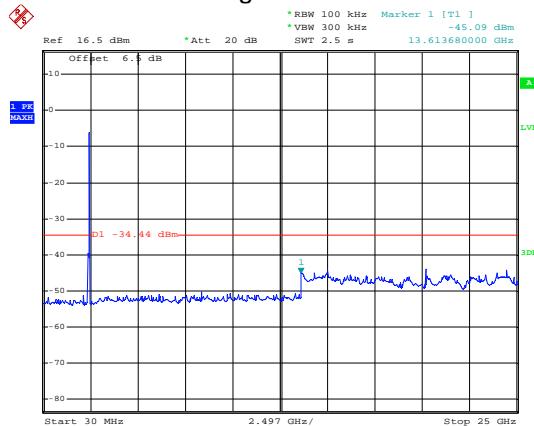
### Middle channel



Date: 6.MAR.2014 16:32:37

30MHz~25GHz

### Highest channel

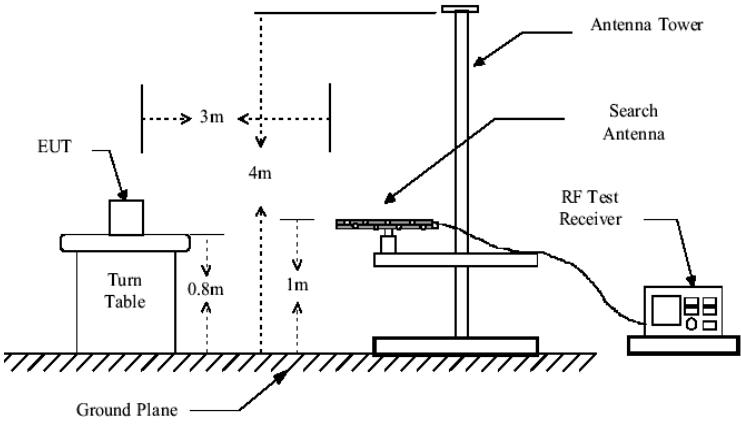
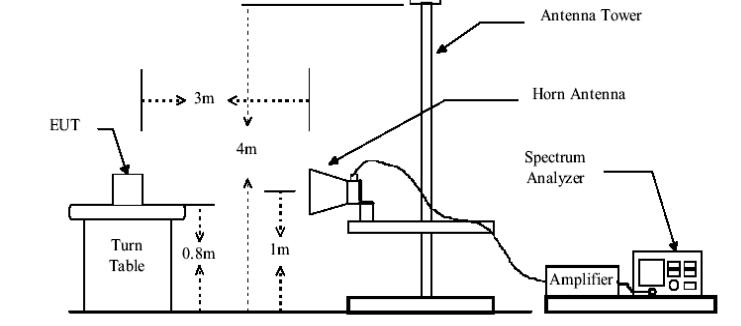


Date: 6.MAR.2014 16:34:37

30MHz~25GHz

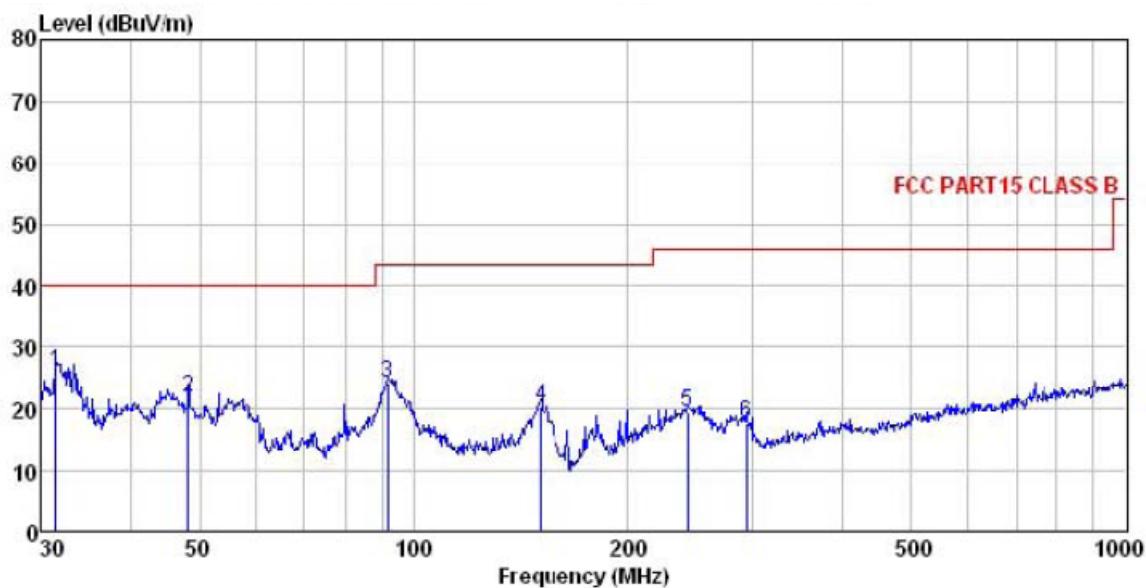
### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205 and RSS-Gen section 4.9																									
Test Method:	ANSI C63.4:2003 / RSS-Gen section 4.9																									
Test Frequency Range:	9KHz to 25GHz / 30MHz to 40GHz																									
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>Peak</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		Peak	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																						
	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>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr> <tr> <td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr> <tr> <td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr> <tr> <td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr> <tr> <td>Above 1GHz</td><td>54.0</td><td>Average Value</td></tr> <tr> <td></td><td>74.0</td><td>Peak Value</td></tr> </tbody> </table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value		74.0	Peak Value
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960MHz-1GHz	54.0	Quasi-peak Value																								
Above 1GHz	54.0	Average Value																								
	74.0	Peak Value																								
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>																									

Test setup:	<p><b>Below 1GHz</b></p>  <p><b>Above 1GHz</b></p> 
Test Instruments:	Refer to section 5.7for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"> <li>Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li> <li>Four modulation mode have been tested, but only show the test data of the worst modulation, and we found that the worst modulation is 802.11b mode.</li> </ol>

**Below 1GHz**

Horizontal :

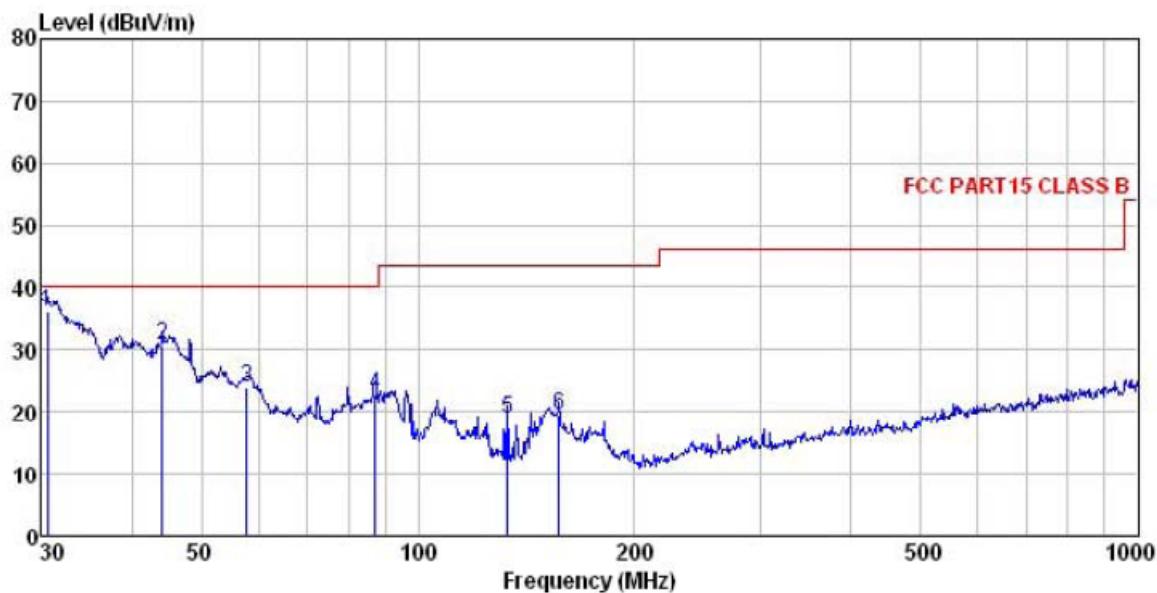


Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL  
 Job No. : 038RF  
 EUT : DECT Phone  
 Test mode : Wifi TX mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Huni:55%  
 Test Engineer: Winner  
 Remark : Handset

Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/n	dBuV/m	dB
1	31.399	39.25	12.32	0.85	26.42	26.00	40.00	-14.00 QP
2	48.163	35.44	13.36	1.27	28.12	21.95	40.00	-18.05 QP
3	91.816	39.99	12.24	2.03	30.07	24.19	43.50	-19.31 QP
4	150.538	38.96	8.29	2.52	29.27	20.50	43.50	-23.00 QP
5	241.676	34.25	12.09	2.82	29.63	19.53	46.00	-26.47 QP
6	293.084	31.22	12.92	2.92	29.45	17.61	46.00	-28.39 QP

Vertical :



Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL  
Job No. : 038RF  
EUT : DECT Phone  
Test mode : Wifi TX mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: Winner  
Remark : Handset

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	30.531	49.35	12.33	0.78	26.32	36.14	40.00	-3.86 QP
2	44.120	43.63	13.56	1.28	27.70	30.77	40.00	-9.23 QP
3	57.796	38.56	12.85	1.37	29.01	23.77	40.00	-16.23 QP
4	87.112	39.89	11.03	1.91	30.09	22.74	40.00	-17.26 QP
5	133.151	37.37	8.67	2.32	29.48	18.88	43.50	-24.62 QP
6	157.007	38.16	8.54	2.57	29.74	19.53	43.50	-23.97 QP

**Above 1GHz****802.11b:**

Test mode:			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	50.25	31.53	8.90	40.24	50.44	74.00	-23.56	Vertical
7236.00	--	--	--	--	--	--	--	Vertical
4824.00	50.72	31.53	8.90	40.24	50.91	74.00	-23.09	Horizontal
7236.00	--	--	--	--	--	--	--	Horizontal

Test mode:			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	37.54	31.53	8.90	40.24	37.73	54.00	-16.27	Vertical
7236.00	--	--	--	--	--	--	--	Vertical
4824.00	37.88	31.53	8.90	40.24	38.07	54.00	-15.93	Horizontal
7236.00	--	--	--	--	--	--	--	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.

**802.11b:**

Test mode:			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	49.98	31.58	8.98	40.15	50.39	74.00	-23.61	Vertical
7311.00	--	--	--	--	--	--	--	Vertical
4874.00	52.65	31.58	8.98	40.15	53.06	74.00	-20.94	Horizontal
7311.00	--	--	--	--	--	--	--	Horizontal

Test mode:			Test channel: Middle			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	35.21	31.58	8.98	40.15	35.62	54.00	-18.38	Vertical
7311.00	--	--	--	--	--	--	--	Vertical
4874.00	38.45	31.58	8.98	40.15	38.86	54.00	-15.14	Horizontal
7311.00	--	--	--	--	--	--	--	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.

**802.11b:**

Test mode:			Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	49.91	31.69	9.08	40.03	50.65	74.00	-23.35	Vertical
7386.00	--	--	--	--	--	--	--	Vertical
4924.00	53.01	31.69	9.08	40.03	53.75	74.00	-20.25	Horizontal
7386.00	--	--	--	--	--	--	--	Horizontal

Test mode:			Test channel: Highest			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.68	31.69	9.08	40.03	36.42	54.00	-17.58	Vertical
7386.00	--	--	--	--	--	--	--	Vertical
4924.00	38.54	31.69	9.08	40.03	39.28	54.00	-14.72	Horizontal
7386.00	--	--	--	--	--	--	--	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.