

# FCC Test Report

Product Name	Gaming Android Gem Box
Model No	Gem Box F500 US
FCC ID.	W3Q-GEMBOXF500

Applicant	DEXXON GROUPE
Address	79 avenue Louis Roche Gennevilliers Cedex 92238 France

Date of Receipt	April 17, 2015
Issue Date	June 04, 2015
Report No.	1540385R-RFUSP26V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issue Date: June 04, 2015

Report No.: 1540385R-RFUSP26V00



Product Name	Gaming Android Gem Box
Applicant	DEXXON GROUPE
Address	79 avenue Louis Roche Gennevilliers Cedex 92238 France
Manufacturer	GIGA-BYTE TECHNOLOGY CO., LTD
Model No.	Gem Box F500 US
FCC ID.	W3Q-GEMBOXF500
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014 ANSI C63.4: 2009, ANSI C63.10: 2009 KDB 558074 D01 DTS Meas Guidance v03r03
Test Result	Complied

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Tested By : Andy Lin  
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Approved By : Vincent Lin  
( Director / Vincent Lin )


## TABLE OF CONTENTS

Description	Page
<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1. EUT Description.....	5
1.2. Operational Description .....	7
1.3. Tested System Details.....	8
1.4. Configuration of Tested System .....	8
1.5. EUT Exercise Software .....	8
1.6. Test Facility .....	9
<b>2. Conducted Emission.....</b>	<b>10</b>
2.1. Test Equipment.....	10
2.2. Test Setup .....	10
2.3. Limits .....	11
2.4. Test Procedure .....	11
2.5. Uncertainty .....	11
2.6. Test Result of Conducted Emission.....	12
<b>3. Peak Power Output .....</b>	<b>14</b>
3.1. Test Equipment.....	14
3.2. Test Setup .....	14
3.3. Limits .....	14
3.4. Test Procedure .....	14
3.5. Uncertainty .....	14
3.6. Test Result of Peak Power Output.....	15
<b>4. Radiated Emission.....</b>	<b>18</b>
4.1. Test Equipment.....	18
4.2. Test Setup .....	19
4.3. Limits .....	20
4.4. Test Procedure .....	21
4.5. Uncertainty .....	21
4.6. Test Result of Radiated Emission.....	22
<b>5. RF antenna conducted test.....</b>	<b>34</b>
5.1. Test Equipment.....	34
5.2. Test Setup .....	34
5.3. Limits .....	34
5.4. Test Procedure .....	34
5.5. Uncertainty .....	35
5.6. Test Result of RF antenna conducted test.....	36
<b>6. Band Edge .....</b>	<b>42</b>
6.1. Test Equipment.....	42
6.2. Test Setup .....	43
6.3. Limits .....	43
6.4. Test Procedure .....	44
6.5. Uncertainty .....	44
6.6. Test Result of Band Edge .....	45

<b>7.</b>	<b>Occupied Bandwidth .....</b>	<b>69</b>
7.1.	Test Equipment .....	69
7.2.	Test Setup .....	69
7.3.	Limits .....	69
7.4.	Test Procedure .....	69
7.5.	Uncertainty .....	69
7.6.	Test Result of Occupied Bandwidth .....	70
<b>8.</b>	<b>Power Density .....</b>	<b>79</b>
8.1.	Test Equipment .....	79
8.2.	Test Setup .....	79
8.3.	Limits .....	79
8.4.	Test Procedure .....	79
8.5.	Uncertainty .....	79
8.6.	Test Result of Power Density .....	80
<b>9.</b>	<b>EMI Reduction Method During Compliance Testing .....</b>	<b>89</b>
Attachment 1: EUT Test Photographs		
Attachment 2: EUT Detailed Photographs		

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Gaming Android Gem Box
Trade Name	
Model No.	Gem Box F500 US
FCC ID.	W3Q-GEMBOXF500
Frequency Range	2412-2462MHz for 802.11b/g/n-20MBW
Number of Channels	802.11b/g/n-20MHz: 11
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: 7.2-72.2Mbps
Type of Modulation	802.11b:DSSS (DBPSK, DQPSK, CCK) 802.11g/n:OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
HDMI Cable	Shielded, 1.2m
LAN Cable	Non-Shielded, 3.0m
Power Adapter	MFR: APD, M/N: WA-12M12R Input: AC 100-240V, 50-60Hz, 0.5A Output: DC 12V, 1A Cable Out: Non-Shielded, 1.5m

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Walsin	RFANT5220110A2T	Chip Antenna	3.12 dBi for 2.4 GHz

Note:

1. The antenna of EUT is conform to FCC 15.203.

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

Note:

1. The EUT is a Gaming Android Gem Box with a built-in 2.4GHz WLAN and Bluetooth transceiver, this report for WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps 、 802.11g is 6Mbps 、 802.11n(20MBW) is 7.2Mbps )
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW)

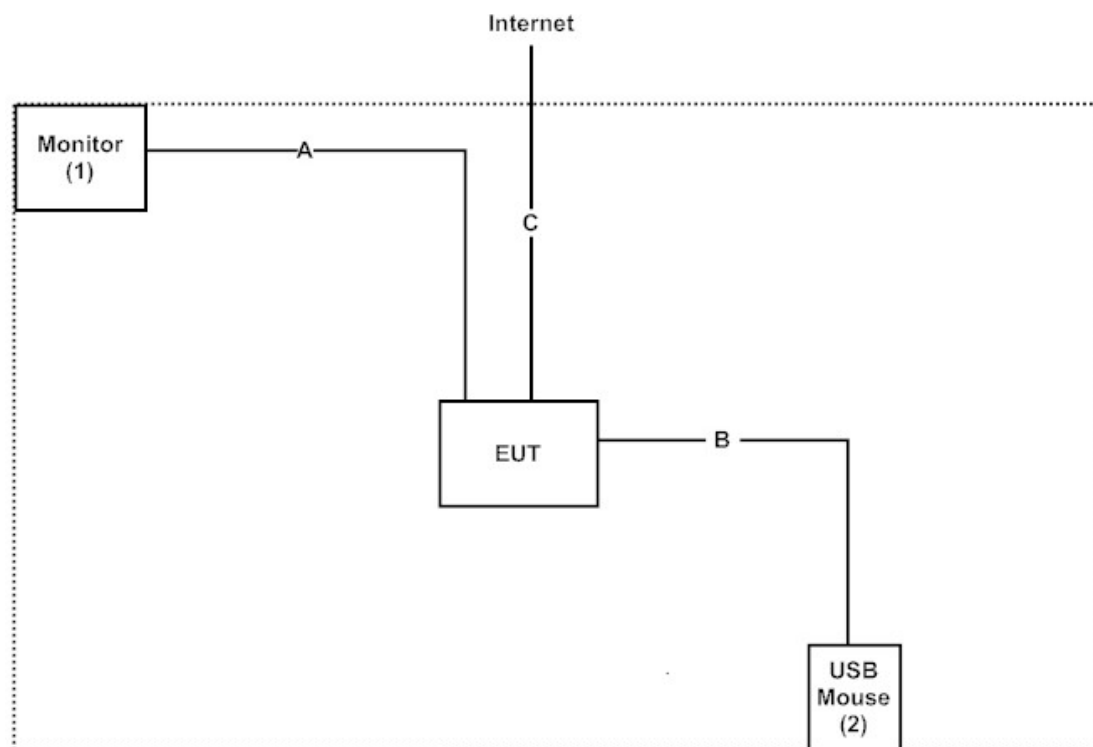
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Monitor	Dell	ST2320L3	CN-0M2NN672872-22I-C9WWS	Non-Shielded, 1.8m
2	USB Mouse	Logitech	M-UV83	HCB54904413	N/A

	Signal Cable Type	Signal cable Description
A	HDMI Cable	Shielded, 1.2m
B	Mouse Cable	Non-Shielded, 1.8m
C	LAN Cable	Non-Shielded, 2.0m

### 1.4. Configuration of Tested System



### 1.5. EUT Exercise Software

- (1) Setup the EUT and Peripherals as shown on 1.4
- (2) Enable the WLAN function of the EUT.
- (3) The AmpakRFTestTool v5.2 uses in controlling EUT to transmit continuously.
- (4) Verify that the EUT works properly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site:

<http://www.quietek.com/>

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory

7435 Oakland Mills Road

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Site Address: No.5-22, Ruishukeng,

Linkou Dist. New Taipei City 24451,

Taiwan, R.O.C.

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E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014



## 2. Conducted Emission

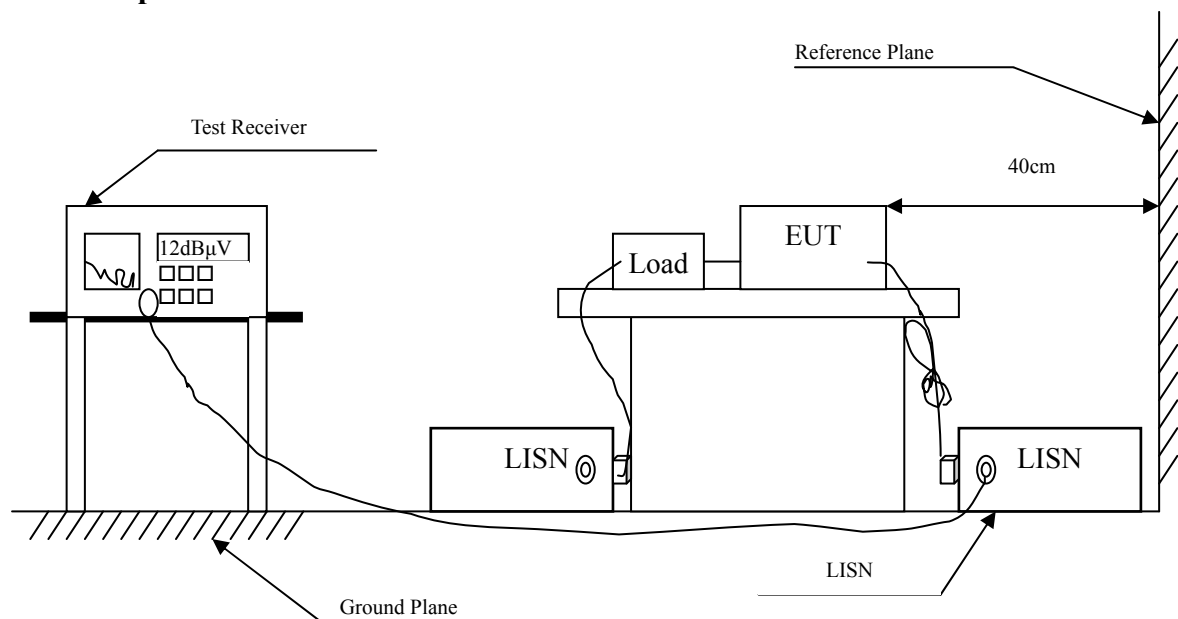
### 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2014	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2015	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2015	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2015	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2015	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

### 2.2. Test Setup



### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

### 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### 2.5. Uncertainty

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : Gaming Android Gem Box  
Test Item : Conducted Emission Test  
Power Line : Line 1  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV	Margin dB	Limit dBμV
<b>Line 1</b>					
<b>Quasi-Peak</b>					
0.173	9.664	5.070	14.734	-50.609	65.343
0.373	9.670	14.250	23.920	-35.709	59.629
0.736	9.690	11.270	20.960	-35.040	56.000
6.017	9.882	4.030	13.912	-46.088	60.000
10.209	9.963	17.990	27.953	-32.047	60.000
12.681	9.985	23.220	33.205	-26.795	60.000
<b>Average</b>					
0.173	9.664	3.980	13.644	-41.699	55.343
0.373	9.670	7.660	17.330	-32.299	49.629
0.736	9.690	6.800	16.490	-29.510	46.000
6.017	9.882	-0.120	9.762	-40.238	50.000
10.209	9.963	17.100	27.063	-22.937	50.000
12.681	9.985	13.390	23.375	-26.625	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Gaming Android Gem Box  
Test Item : Conducted Emission Test  
Power Line : Line 2  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV	dB	dBμV
<b>Line 2</b>					
<b>Quasi-Peak</b>					
0.216	9.661	22.710	32.371	-31.743	64.114
0.369	9.670	29.800	39.470	-20.273	59.743
0.841	9.695	15.910	25.605	-30.395	56.000
6.420	9.897	18.420	28.317	-31.683	60.000
9.322	9.975	15.080	25.055	-34.945	60.000
12.002	10.029	27.420	37.449	-22.551	60.000
<b>Average</b>					
0.216	9.661	8.750	18.411	-35.703	54.114
0.369	9.670	25.240	34.910	-14.833	49.743
0.841	9.695	5.610	15.305	-30.695	46.000
6.420	9.897	12.210	22.107	-27.893	50.000
9.322	9.975	9.970	19.945	-30.055	50.000
12.002	10.029	23.610	33.639	-16.361	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Peak Power Output

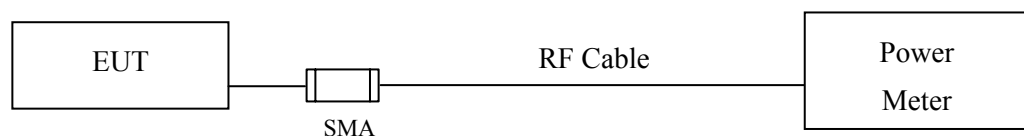
#### 3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

#### 3.2. Test Setup



#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v03r02 section 9.1.2 PKPM1 Peak power meter method.

#### 3.5. Uncertainty

$\pm 1.27$  dB

### 3.6. Test Result of Peak Power Output

Product : Gaming Android Gem Box  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11	1		
		Measurement Level (dBm)						
01	2412	15.3	--	--	--	18.13	<30dBm	Pass
06	2437	15.01	14.95	14.83	14.77	18.02	<30dBm	Pass
11	2462	14.82	--	--	--	17.75	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : Gaming Android Gem Box  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	15.20	--	--	--	--	--	--	--	23.57	<30dBm	Pass
06	2437	15.01	14.89	14.72	14.68	14.57	14.45	14.37	14.33	23.08	<30dBm	Pass
11	2462	14.93	--	--	--	--	--	--	--	23.01	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : Gaming Android Gem Box  
Test Item : Peak Power Output Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	7.2		
		Measurement Level (dBm)										
01	2412	13.93	--	--	--	--	--	--	--	23.11	<30dBm	Pass
06	2437	13.84	13.75	13.69	13.61	13.52	13.47	13.4	13.35	22.74	<30dBm	Pass
11	2462	13.78	--	--	--	--	--	--	--	22.23	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss



#### 4. Radiated Emission

##### 4.1. Test Equipment

The following test equipments are used during the radiated emission test:

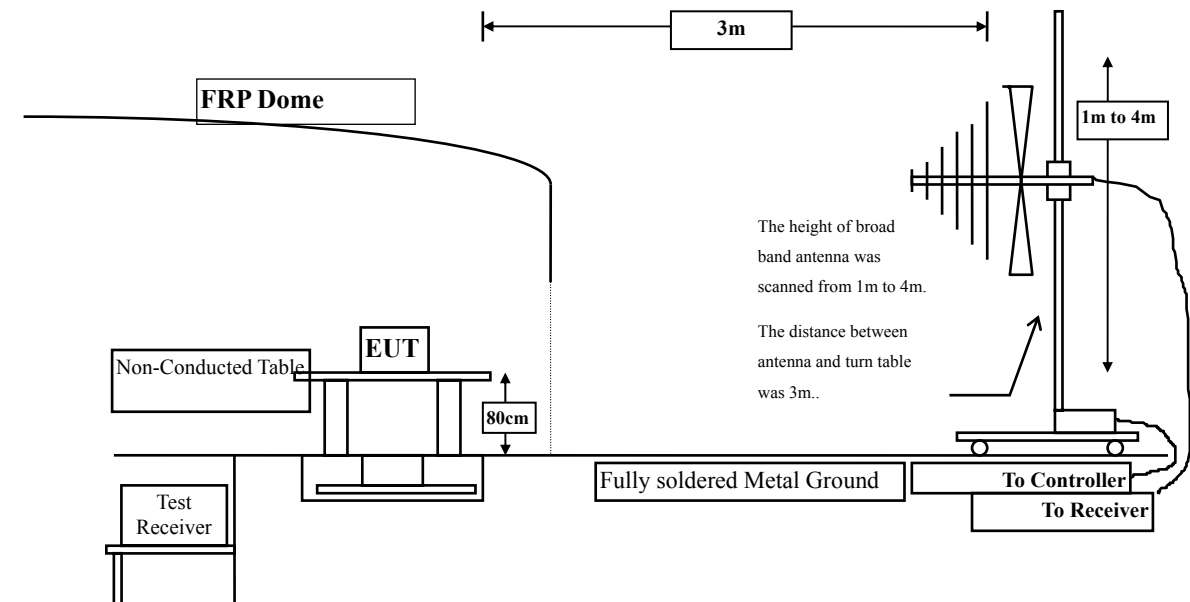
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
<input checked="" type="checkbox"/> Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2014
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
<input checked="" type="checkbox"/> CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2014
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2014
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2014
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2014

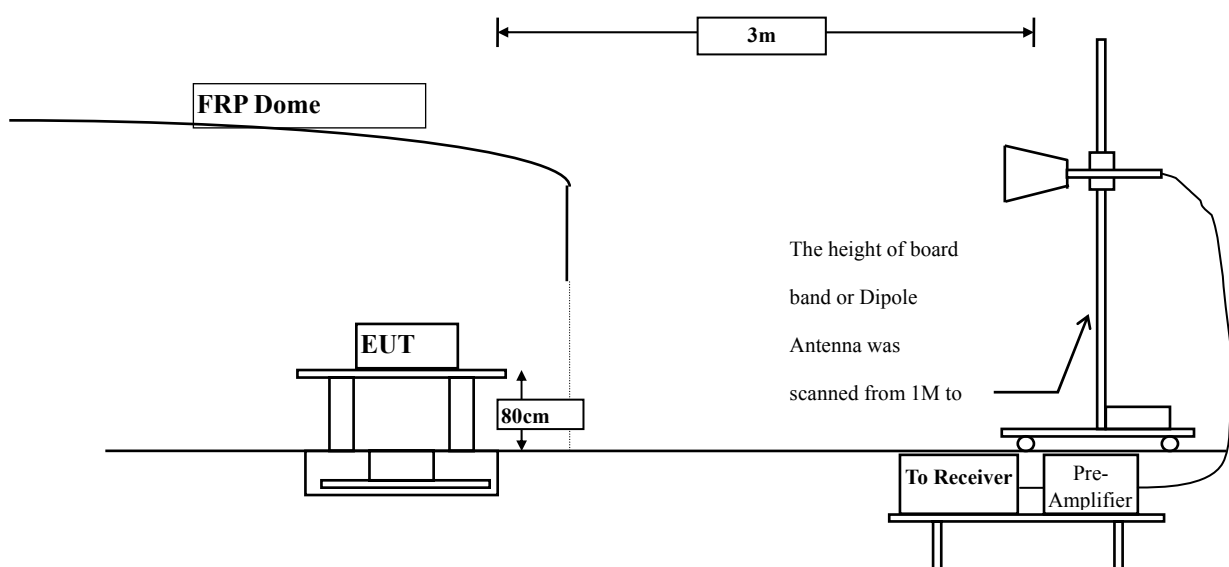
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
  2. The test instruments marked with "X" are used to measure the final test results.

## 4.2. Test Setup

### Radiated Emission Below 1GHz



### Radiated Emission Above 1GHz



### 4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBμV/m) = 20 log E field strength (uV/m)

#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

#### 4.6. Test Result of Radiated Emission

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dB $\mu$ V	Measurement Level dB $\mu$ V/m	Margin dB	Limit dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
3618.000	0.075	51.430	51.505	-22.495	74.000
4824.000	3.261	37.670	40.931	-33.069	74.000
7236.000	10.650	37.540	48.190	-25.810	74.000
9648.000	13.337	35.890	49.226	-24.774	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
3618.000	0.748	46.750	47.498	-26.502	74.000
4824.000	6.421	37.040	43.461	-30.539	74.000
7236.000	11.495	35.020	46.515	-27.485	74.000
9648.000	13.807	35.290	49.096	-24.904	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3656.000	-0.294	52.190	51.897	-22.103	74.000
4874.000	3.038	39.450	42.487	-31.513	74.000
7311.000	11.795	36.520	48.314	-25.686	74.000
9748.000	12.635	35.480	48.115	-25.885	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3657.000	0.622	46.710	47.332	-26.668	74.000
4874.000	5.812	37.720	43.531	-30.469	74.000
7311.000	12.630	33.810	46.439	-27.561	74.000
9748.000	13.126	35.560	48.686	-25.314	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3692.000	-0.623	51.130	50.507	-23.493	74.000
4924.000	2.858	38.490	41.347	-32.653	74.000
7386.000	12.127	36.550	48.678	-25.322	74.000
9848.000	12.852	35.280	48.133	-25.867	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3694.000	0.520	45.370	45.890	-28.110	74.000
4924.000	5.521	37.620	43.140	-30.860	74.000
7386.000	13.254	34.510	47.764	-26.236	74.000
9848.000	13.367	35.340	48.707	-25.293	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3618.000	0.075	51.430	51.505	-22.495	74.000
4824.000	3.261	36.430	39.691	-34.309	74.000
7236.000	10.650	37.840	48.490	-25.510	74.000
9648.000	13.337	36.140	49.476	-24.524	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3619.000	0.744	46.510	47.254	-26.746	74.000
4824.000	6.421	36.480	42.901	-31.099	74.000
7236.000	11.495	34.560	46.055	-27.945	74.000
9648.000	13.807	35.720	49.526	-24.474	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3655.000	-0.284	51.450	51.167	-22.833	74.000
4874.000	3.038	38.590	41.627	-32.373	74.000
7311.000	11.795	37.540	49.334	-24.666	74.000
9748.000	12.635	35.480	48.115	-25.885	74.000

**Average Detector:**

--

**Peak Detector:**

3656.000	0.625	45.710	46.335	-27.665	74.000
4874.000	5.812	37.080	42.891	-31.109	74.000
7311.000	12.630	34.810	47.439	-26.561	74.000
9748.000	13.126	35.520	48.646	-25.354	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3693.000	-0.629	50.870	50.241	-23.759	74.000
4924.000	2.858	37.540	40.397	-33.603	74.000
7386.000	12.127	36.850	48.978	-25.022	74.000
9848.000	12.852	35.140	47.993	-26.007	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3694.000	0.520	44.510	45.030	-28.970	74.000
4924.000	5.521	35.870	41.390	-32.610	74.000
7386.000	13.254	34.650	47.904	-26.096	74.000
9848.000	13.367	35.880	49.247	-24.753	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW)(2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3618.000	0.075	50.500	50.575	-23.425	74.000
4824.000	3.261	35.790	39.051	-34.949	74.000
7236.000	10.650	36.610	47.260	-26.740	74.000
9648.000	13.337	35.870	49.206	-24.794	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3619.000	0.744	44.810	45.554	-28.446	74.000
4824.000	6.421	35.680	42.101	-31.899	74.000
7236.000	11.495	34.720	46.215	-27.785	74.000
9648.000	13.807	35.790	49.596	-24.404	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m

**Horizontal**

**Peak Detector:**

3655.000	-0.284	51.140	50.857	-23.143	74.000
4874.000	3.038	36.890	39.927	-34.073	74.000
7311.000	11.795	36.240	48.034	-25.966	74.000
9748.000	12.635	35.450	48.085	-25.915	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3656.000	0.625	45.810	46.435	-27.565	74.000
4874.000	5.812	36.370	42.181	-31.819	74.000
7311.000	12.630	34.510	47.139	-26.861	74.000
9748.000	13.126	35.920	49.046	-24.954	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : Harmonic Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV/m	dB	dBμV/m

**Horizontal**

**Peak Detector:**

3692.000	-0.623	50.170	49.547	-24.453	74.000
4924.000	2.858	36.890	39.747	-34.253	74.000
7386.000	12.127	35.910	48.038	-25.962	74.000
9848.000	12.852	35.340	48.193	-25.807	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

3693.000	0.520	43.710	44.230	-29.770	74.000
4924.000	5.521	35.970	41.490	-32.510	74.000
7386.000	13.254	34.810	48.064	-25.936	74.000
9848.000	13.367	35.330	48.697	-25.303	74.000

**Average Detector:**

--

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Gaming Android Gem Box  
Test Item : General Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps)(2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m
<b>Horizontal</b>					
150.280	-10.194	34.890	24.696	-18.804	43.500
460.680	1.589	23.644	25.233	-20.767	46.000
615.880	3.215	25.060	28.275	-17.725	46.000
711.910	3.587	25.340	28.927	-17.073	46.000
903.970	5.676	26.510	32.186	-13.814	46.000
968.960	6.981	24.552	31.533	-22.467	54.000
<b>Vertical</b>					
125.060	-4.046	29.684	25.638	-17.862	43.500
329.730	-4.955	30.523	25.568	-20.432	46.000
466.500	-4.786	32.061	27.274	-18.726	46.000
751.680	2.850	24.399	27.249	-18.751	46.000
844.800	3.181	24.443	27.624	-18.376	46.000
967.020	8.071	25.879	33.950	-20.050	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Gaming Android Gem Box  
Test Item : General Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps)(2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV/m	dB	dBμV/m
<b>Horizontal</b>					
150.280	-10.194	36.149	25.955	-17.545	43.500
460.680	1.589	24.329	25.918	-20.082	46.000
544.100	3.512	24.999	28.511	-17.489	46.000
658.560	2.115	25.551	27.666	-18.334	46.000
890.390	6.130	25.416	31.546	-14.454	46.000
976.720	6.655	25.373	32.029	-21.971	54.000
<b>Vertical</b>					
103.720	-0.151	34.338	34.186	-9.314	43.500
381.140	-1.558	24.124	22.566	-23.434	46.000
619.760	-2.729	29.316	26.587	-19.413	46.000
744.890	1.627	23.959	25.586	-20.414	46.000
842.860	3.074	24.331	27.405	-18.595	46.000
968.960	8.191	24.008	32.199	-21.801	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Gaming Android Gem Box  
Test Item : General Radiated Emission Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW)(2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV/m	dB	dBμV/m
<b>Horizontal</b>					
150.280	-10.194	36.367	26.173	-17.327	43.500
394.720	-2.304	29.030	26.726	-19.274	46.000
615.880	3.215	26.511	29.726	-16.274	46.000
717.730	3.542	23.963	27.505	-18.495	46.000
842.860	5.384	28.326	33.710	-12.290	46.000
949.560	6.695	24.230	30.925	-15.075	46.000
<b>Vertical</b>					
100.810	0.044	32.658	32.702	-10.798	43.500
200.720	-7.835	34.391	26.556	-16.944	43.500
346.220	-3.093	30.027	26.934	-19.066	46.000
681.840	1.484	30.974	32.458	-13.542	46.000
807.940	3.586	24.689	28.274	-17.726	46.000
970.900	7.302	24.257	31.559	-22.441	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.



## 5. RF antenna conducted test

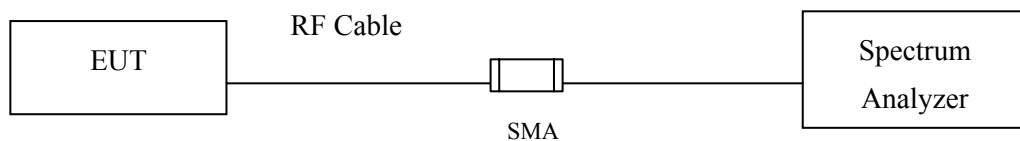
### 5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.  
2. The test instruments marked with “X” are used to measure the final test results.

### 5.2. Test Setup

#### RF antenna Conducted Measurement:



### 5.3. Limits

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 5.4. Test Procedure

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

## 5.5. Uncertainty

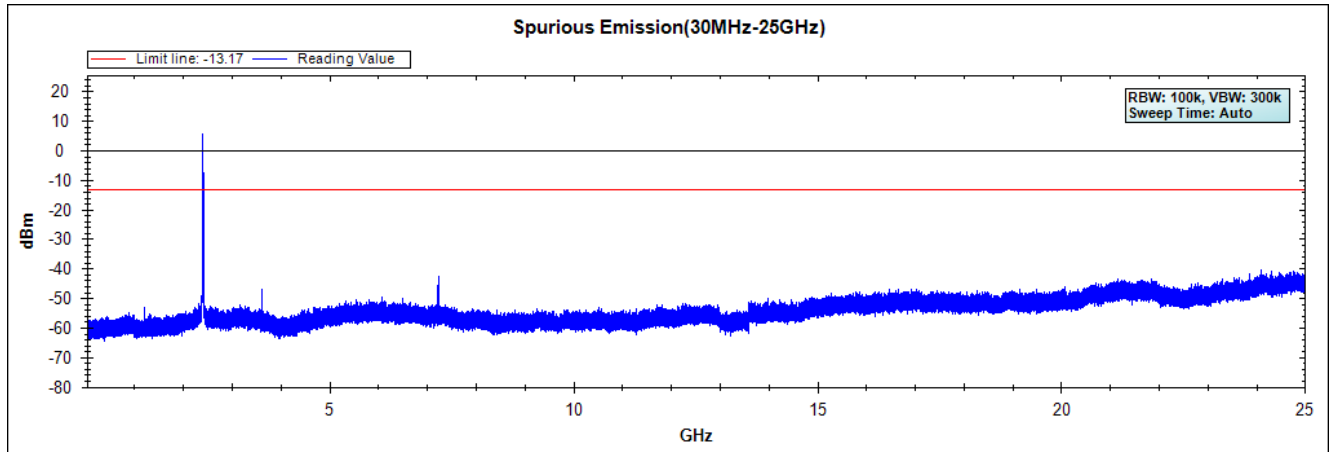
The measurement uncertainty

Conducted is defined as  $\pm 1.27\text{dB}$

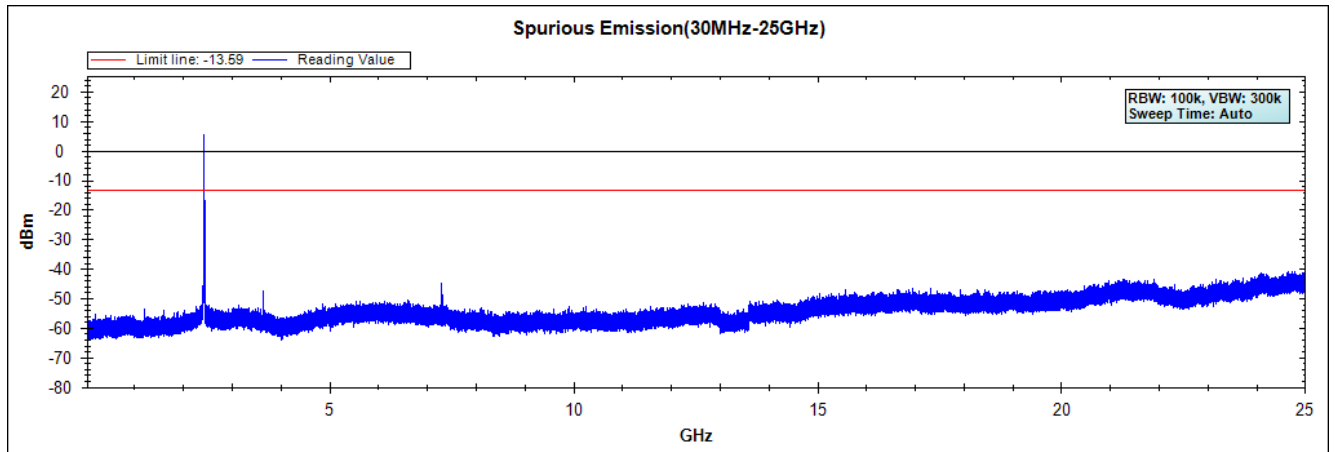
## 5.6. Test Result of RF antenna conducted test

Product : Gaming Android Gem Box  
 Test Item : RF antenna conducted test  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

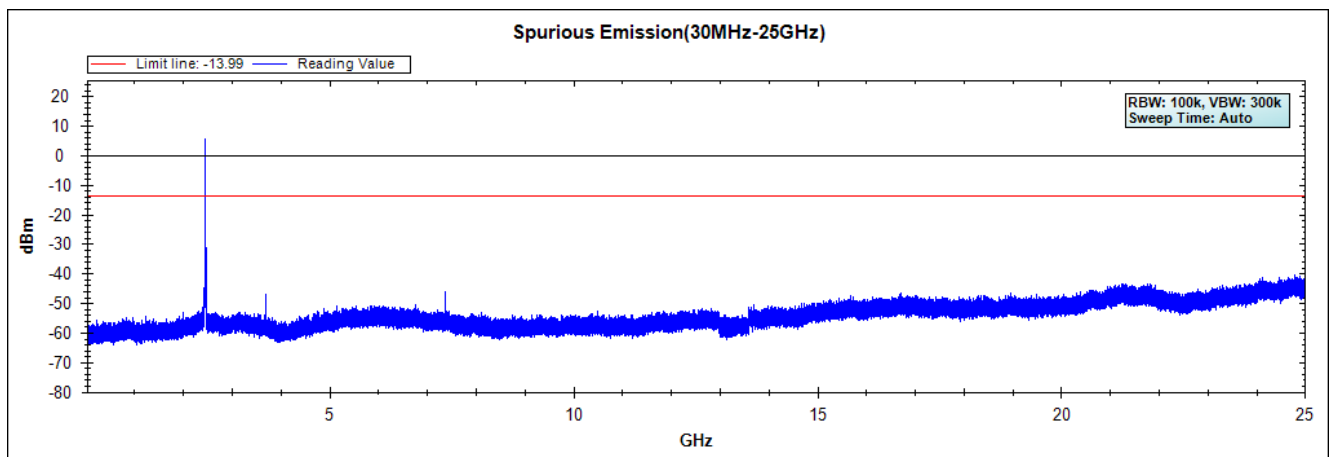
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)

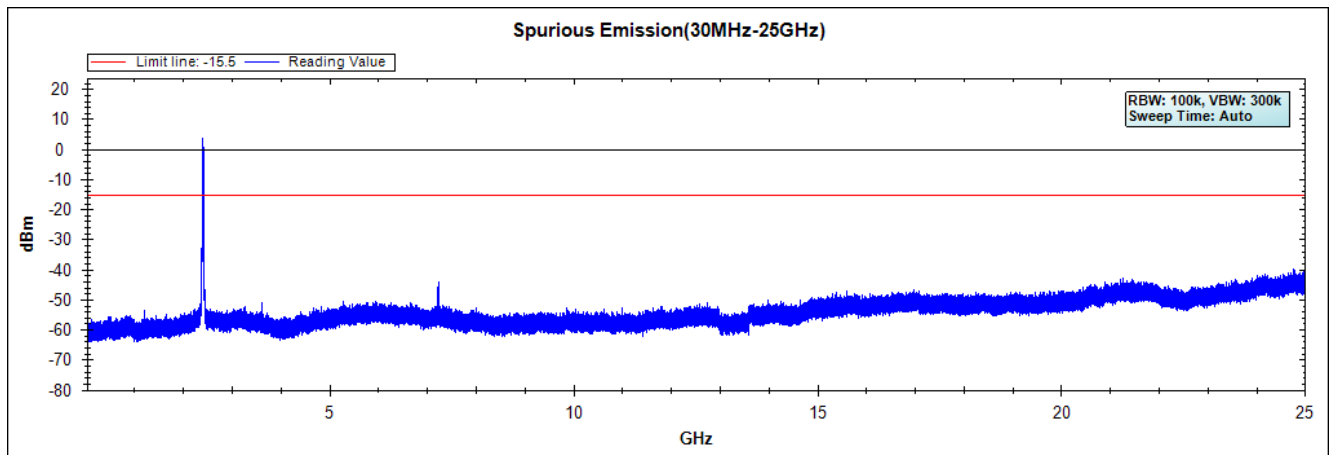


### Channel 11 (2462MHz)

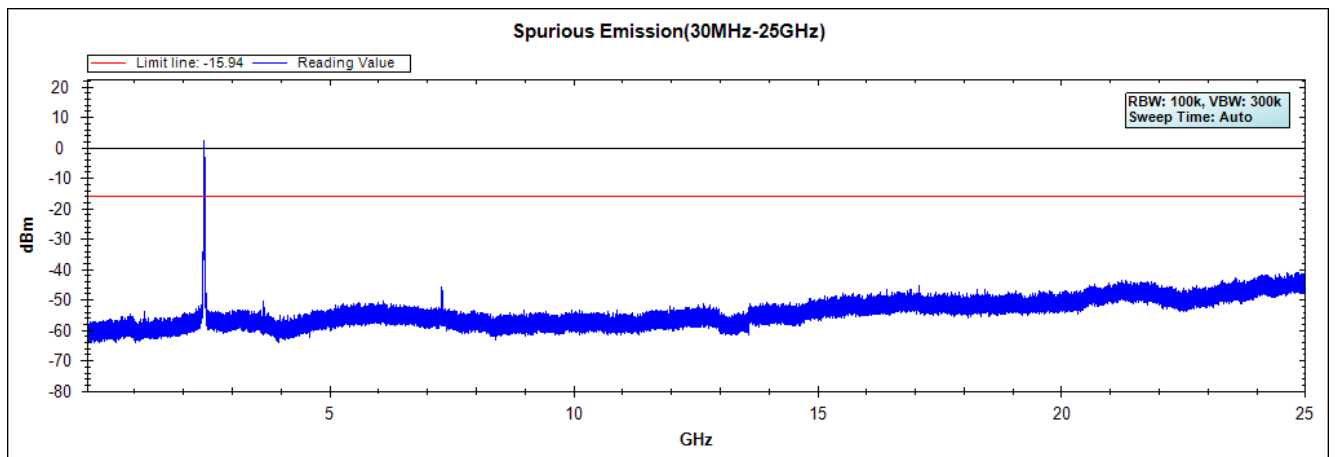


Product : Gaming Android Gem Box  
 Test Item : RF Antenna Conducted Spurious  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

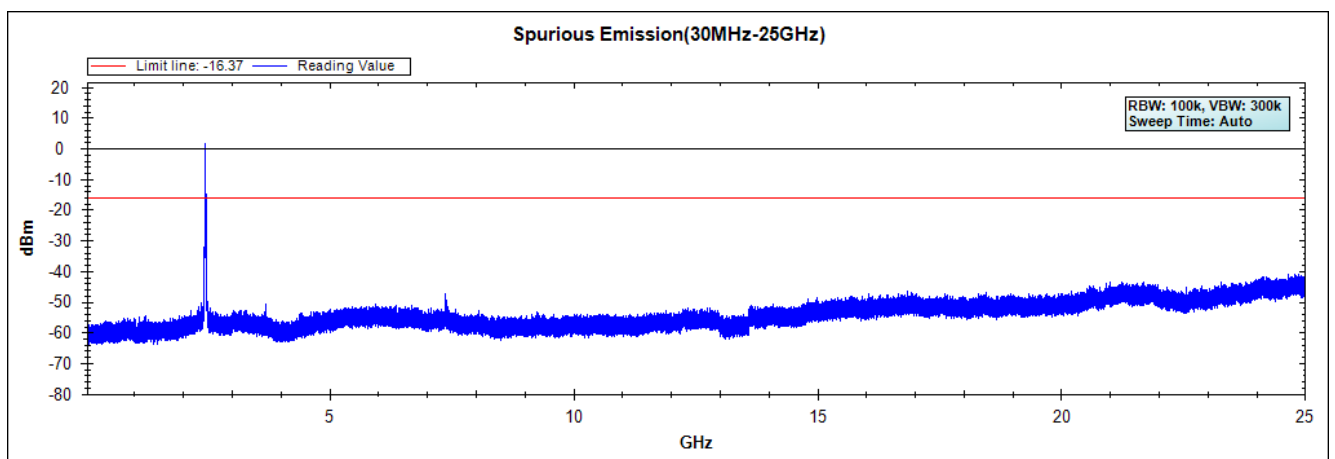
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)

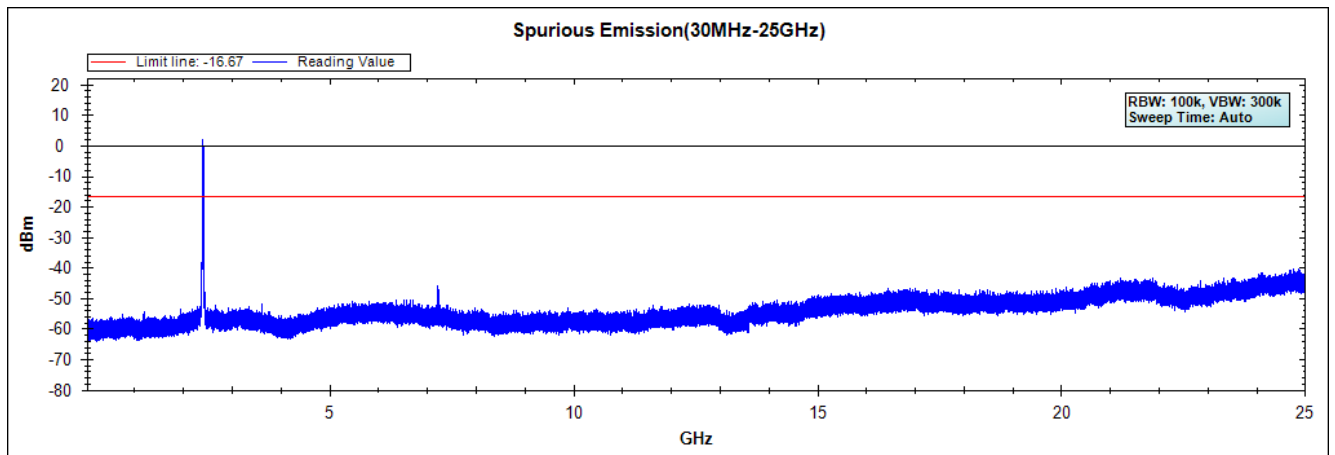


### Channel 11 (2462MHz)

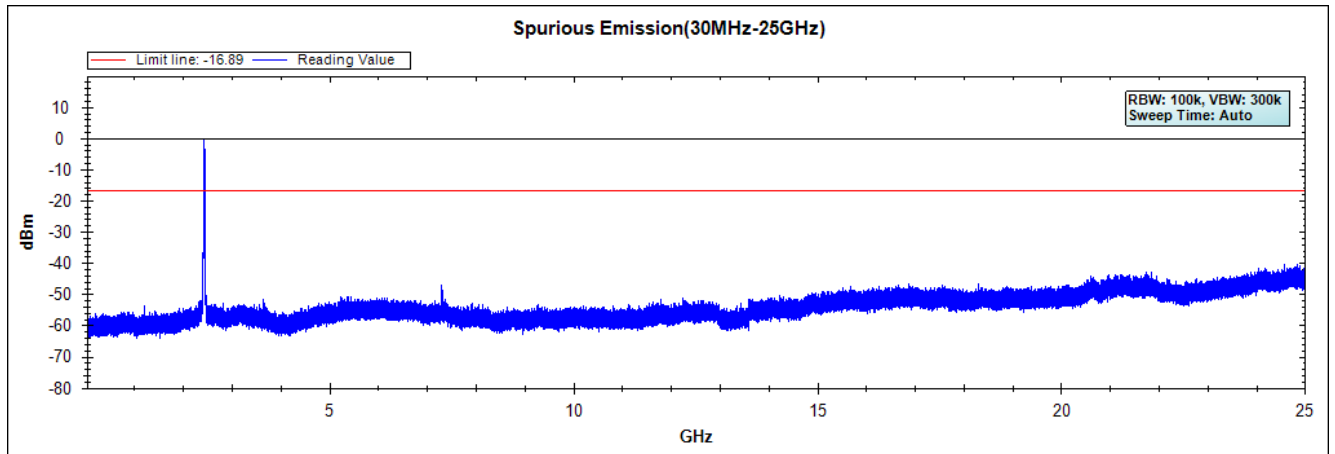


Product : Gaming Android Gem Box  
 Test Item : RF Antenna Conducted Spurious  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW)

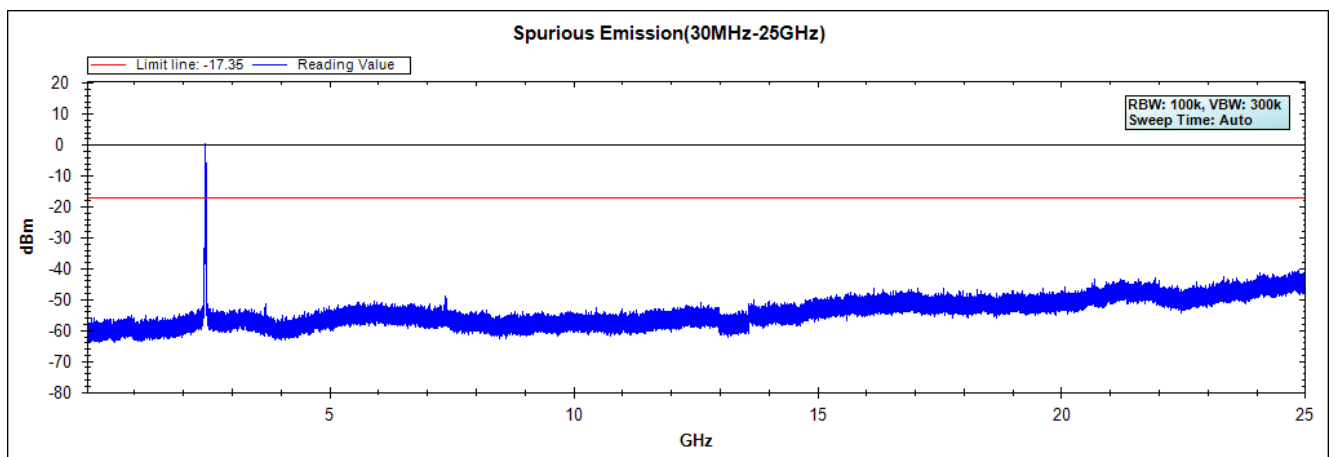
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)





## 6. Band Edge

### 6.1. Test Equipment

#### RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

#### RF Radiated Measurement:

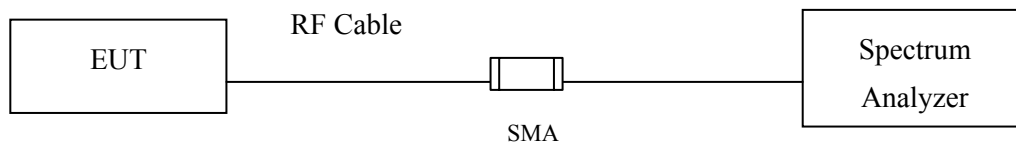
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2014
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2014
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2014
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2014

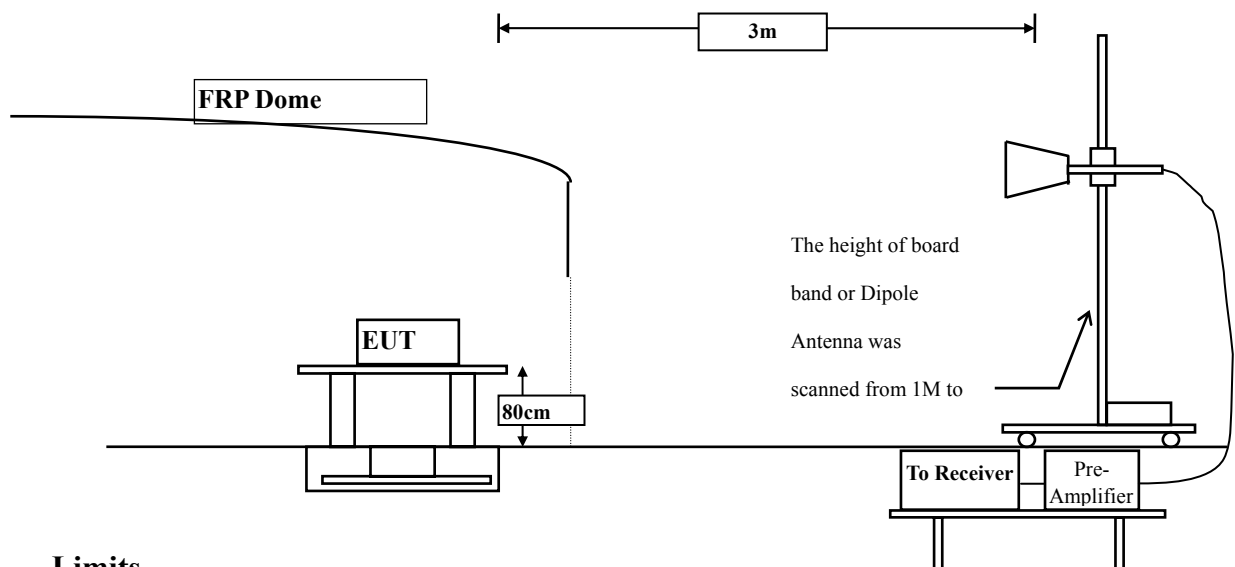
- Note:
1. All instruments are calibrated every one year.
  2. The test instruments marked by "X" are used to measure the final test results.

## 6.2. Test Setup

### RF Conducted Measurement



### RF Radiated Measurement:



## 6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

#### **6.4. Test Procedure**

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

#### **6.5. Uncertainty**

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

## 6.6. Test Result of Band Edge

Product : Gaming Android Gem Box  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

### RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2388.000	31.501	29.093	60.594	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	27.996	59.505	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	32.386	63.947	--	--	Pass
01 (Peak)	2411.000	31.630	75.232	106.862	--	--	Pass
01 (Average)	2385.600	31.492	18.461	49.953	74.00	54.00	Pass
01 (Average)	2390.000	31.509	16.762	48.271	74.00	54.00	Pass
01 (Average)	2400.000	31.561	23.410	54.971	--	--	Pass
01 (Average)	2411.200	31.632	71.541	103.173	--	--	Pass

Figure Channel 01:

Horizontal (Peak)

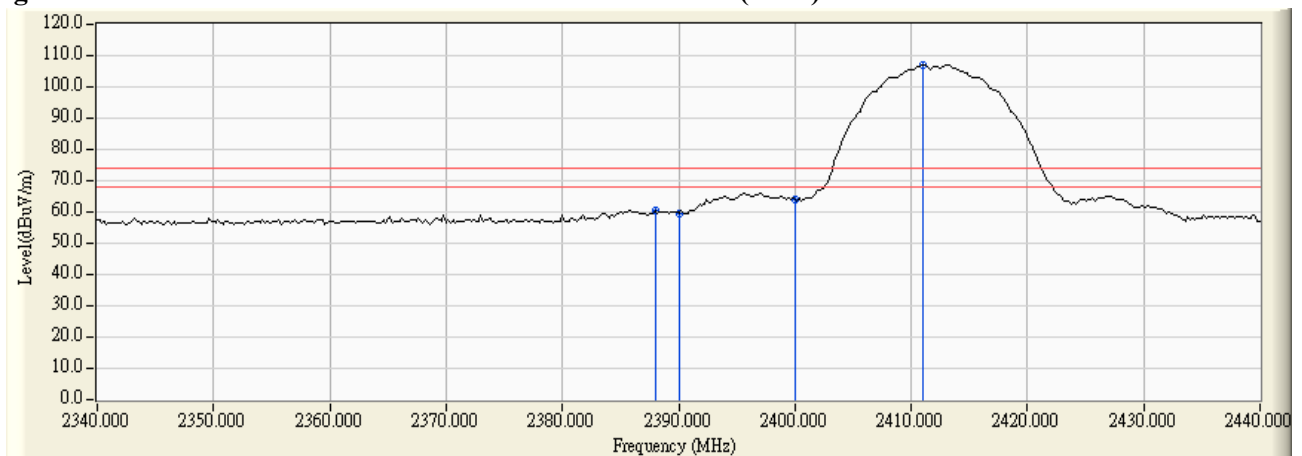
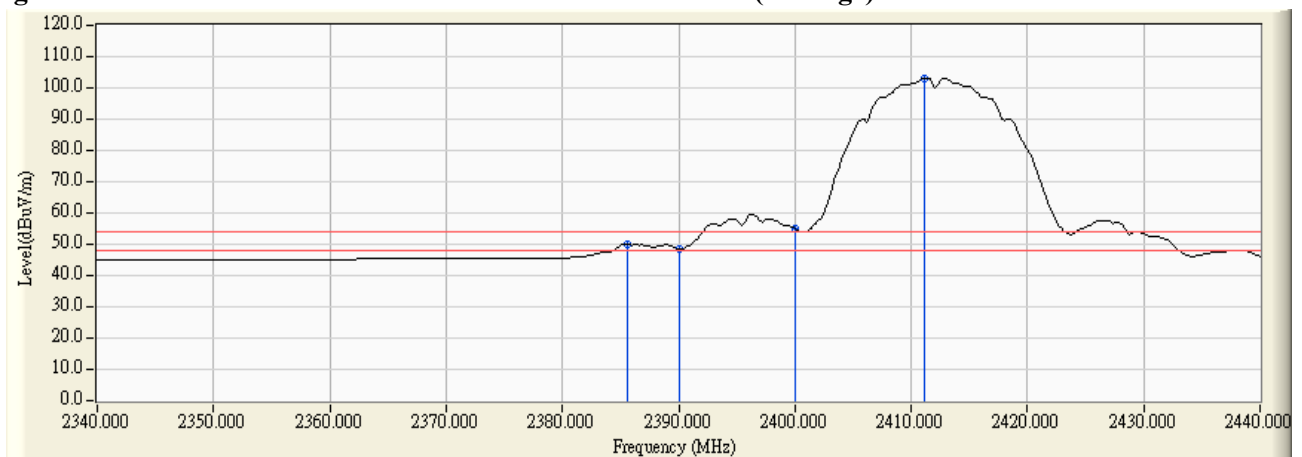


Figure Channel 01:

Horizontal (Average)



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

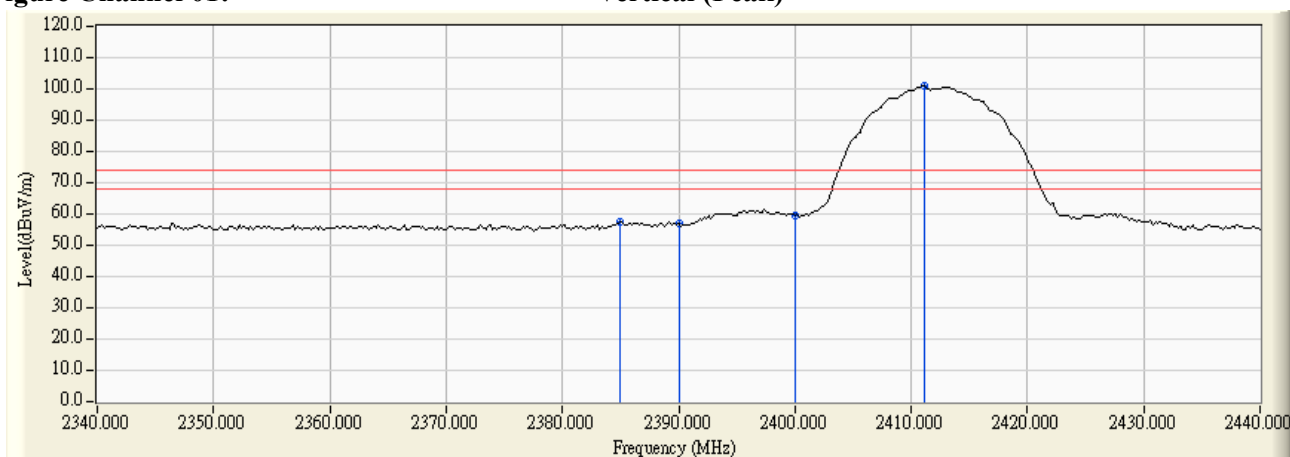
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2385.000	30.938	26.469	57.407	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	26.055	56.970	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	28.462	59.374	--	--	Pass
01 (Peak)	2411.200	30.944	69.818	100.762	--	--	Pass
01 (Average)	2385.600	30.936	14.877	45.813	74.00	54.00	Pass
01 (Average)	2390.000	30.915	14.027	44.942	74.00	54.00	Pass
01 (Average)	2400.000	30.912	18.809	49.721	--	--	Pass
01 (Average)	2411.200	30.944	66.116	97.060	--	--	Pass

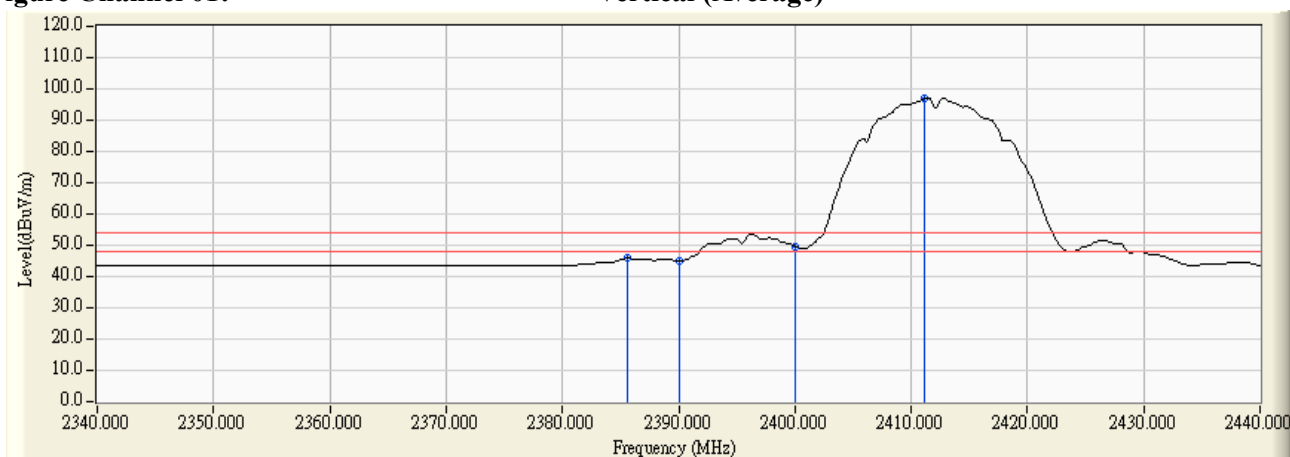
**Figure Channel 01:**

**Vertical (Peak)**



**Figure Channel 01:**

**Vertical (Average)**



Note:

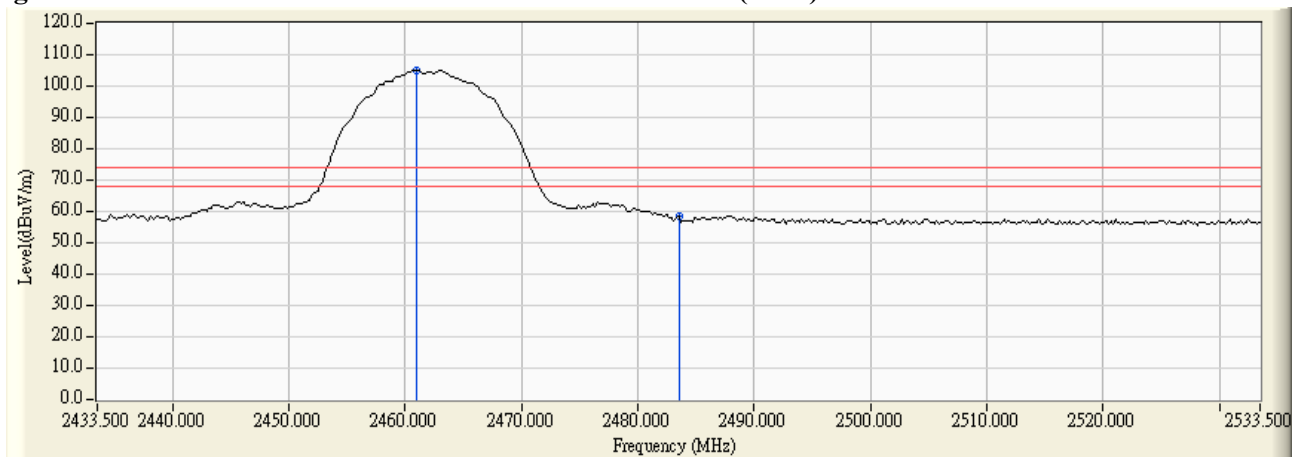
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

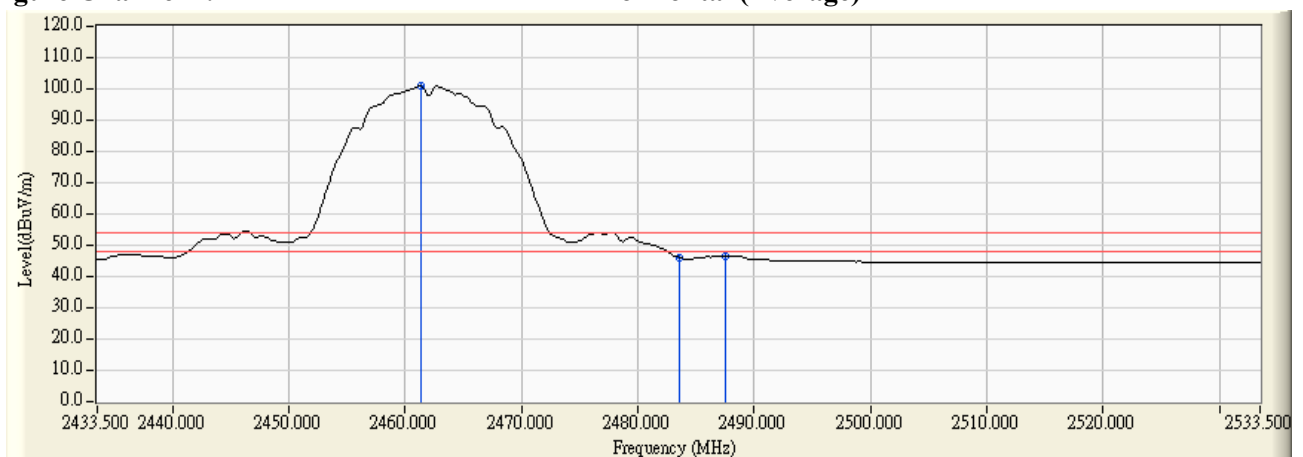
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2460.900	32.011	73.188	105.199	--	--	Pass
11 (Peak)	2483.500	32.182	26.213	58.395	74.00	54.00	Pass
11 (Average)	2461.300	32.014	69.043	101.057	--	--	Pass
11 (Average)	2483.500	32.182	13.830	46.012	74.00	54.00	Pass
11 (Average)	2487.500	32.212	14.384	46.596	74.00	54.00	Pass

**Figure Channel 11: Horizontal (Peak)**



**Figure Channel 1: Horizontal (Average)**





Note:

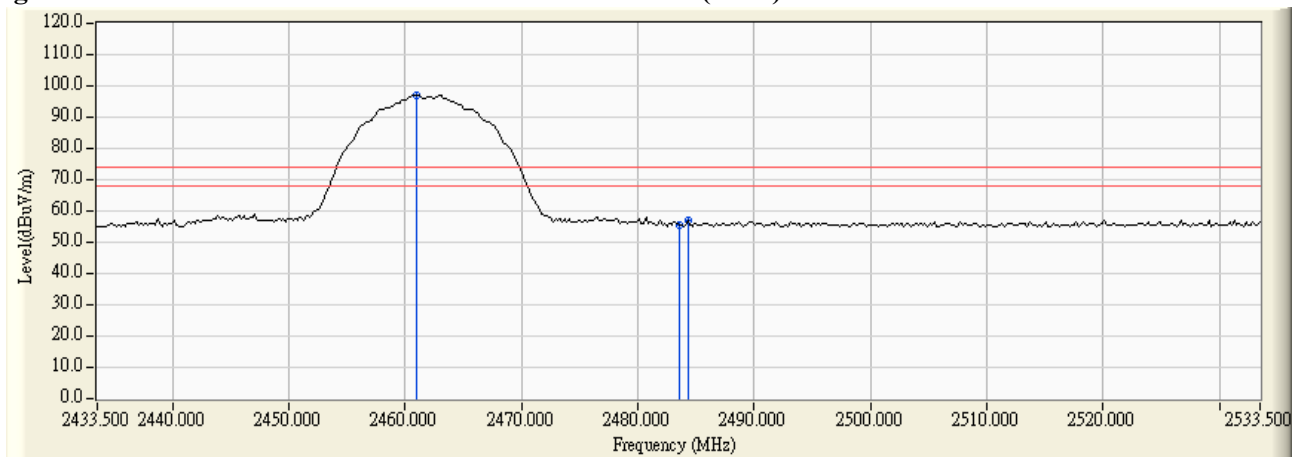
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

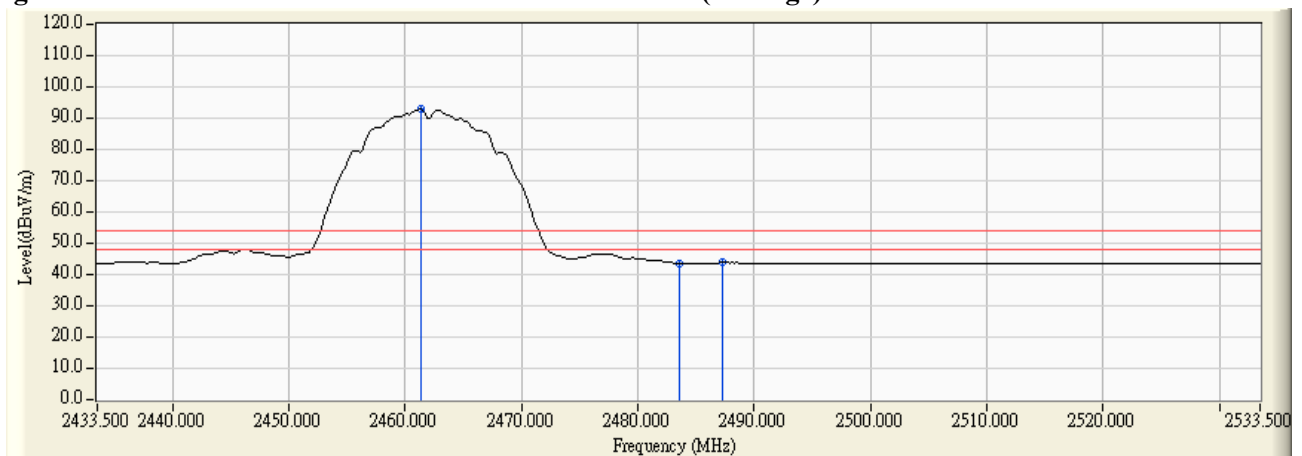
**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2460.900	31.283	65.739	97.022	--	--	Pass
11 (Peak)	2483.500	31.435	23.897	55.332	74.00	54.00	Pass
11 (Peak)	2484.300	31.440	25.735	57.176	74.00	54.00	Pass
11 (Average)	2461.300	31.286	61.480	92.766	--	--	Pass
11 (Average)	2483.500	31.435	12.206	43.641	74.00	54.00	Pass
11 (Average)	2487.300	31.461	12.299	43.760	74.00	54.00	Pass

**Figure Channel 11: Vertical (Peak)**



**Figure Channel 11: Vertical (Average)**



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

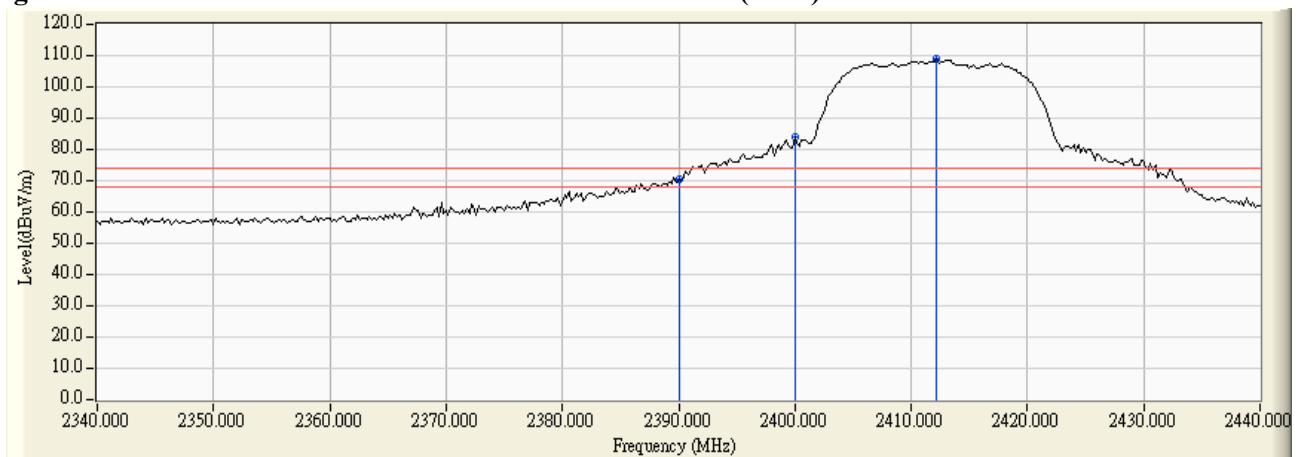
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	38.994	70.503	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	52.400	83.961	--	--	Pass
01 (Peak)	2412.200	31.640	77.608	109.248	--	--	Pass
01 (Average)	2390.000	31.509	21.752	53.261	74.00	54.00	Pass
01 (Average)	2400.000	31.561	29.240	60.801	--	--	Pass
01 (Average)	2410.800	31.629	64.977	96.606	--	--	Pass

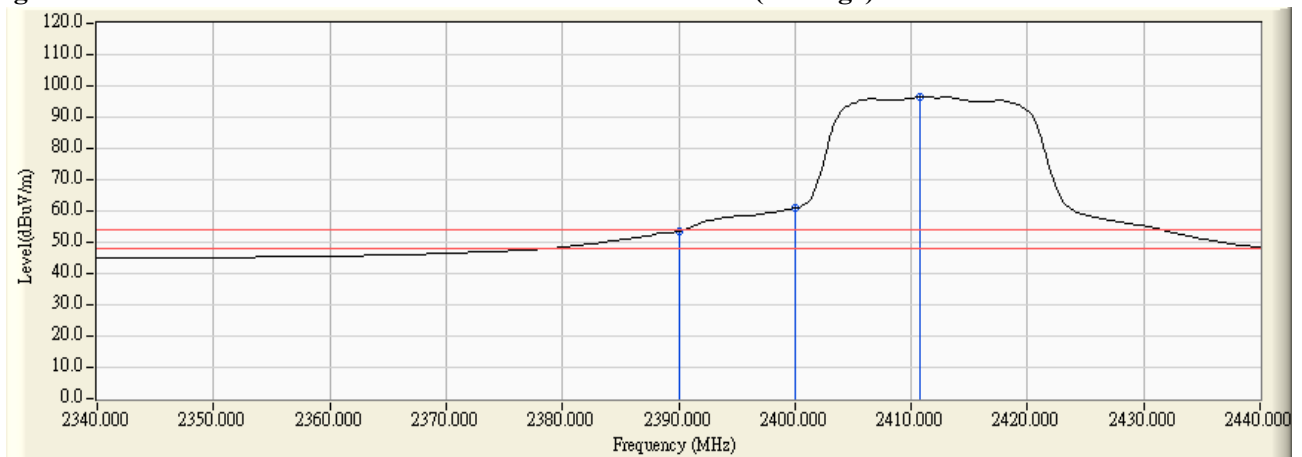
**Figure Channel 01:**

**Horizontal (Peak)**



**Figure Channel 01:**

**Horizontal (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

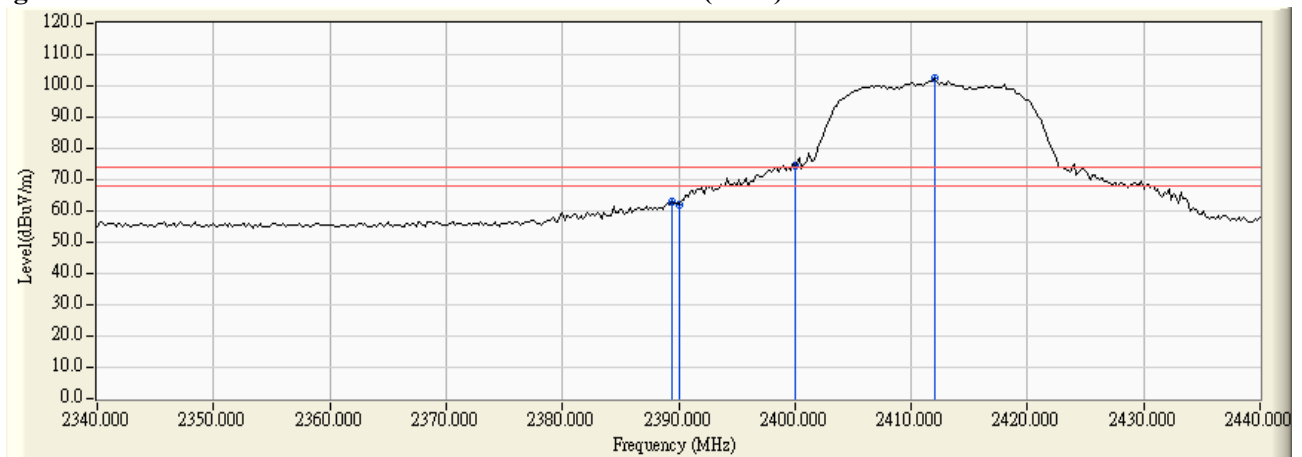
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.400	30.918	32.122	63.040	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	31.266	62.181	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	43.504	74.416	--	--	Pass
01 (Peak)	2412.000	30.950	71.440	102.389	--	--	Pass
01 (Average)	2390.000	30.915	16.998	47.913	74.00	54.00	Pass
01 (Average)	2400.000	30.912	23.164	54.076	--	--	Pass
01 (Average)	2411.200	30.944	58.730	89.674	--	--	Pass

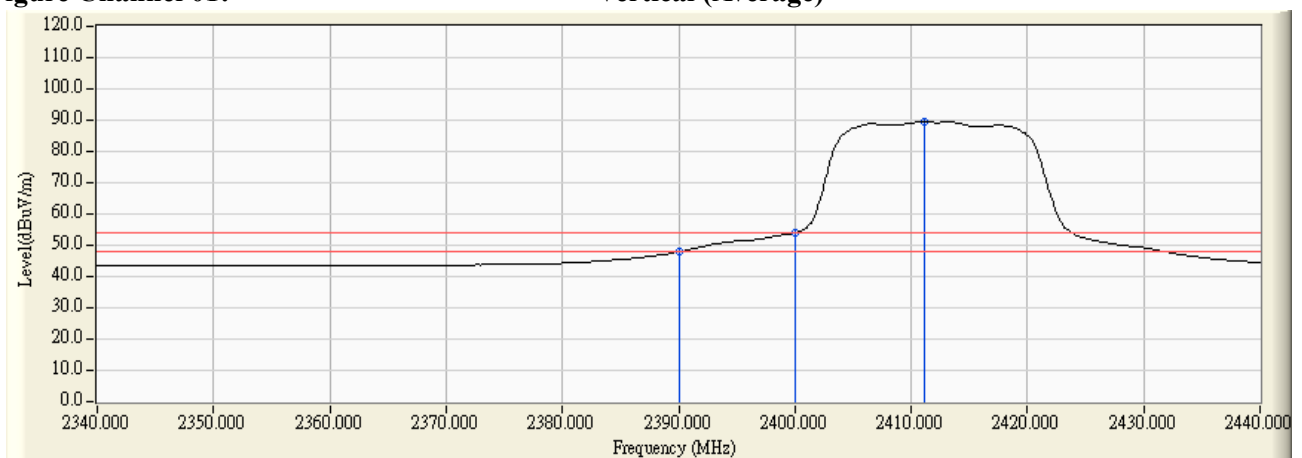
**Figure Channel 01:**

**Vertical (Peak)**



**Figure Channel 01:**

**Vertical (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

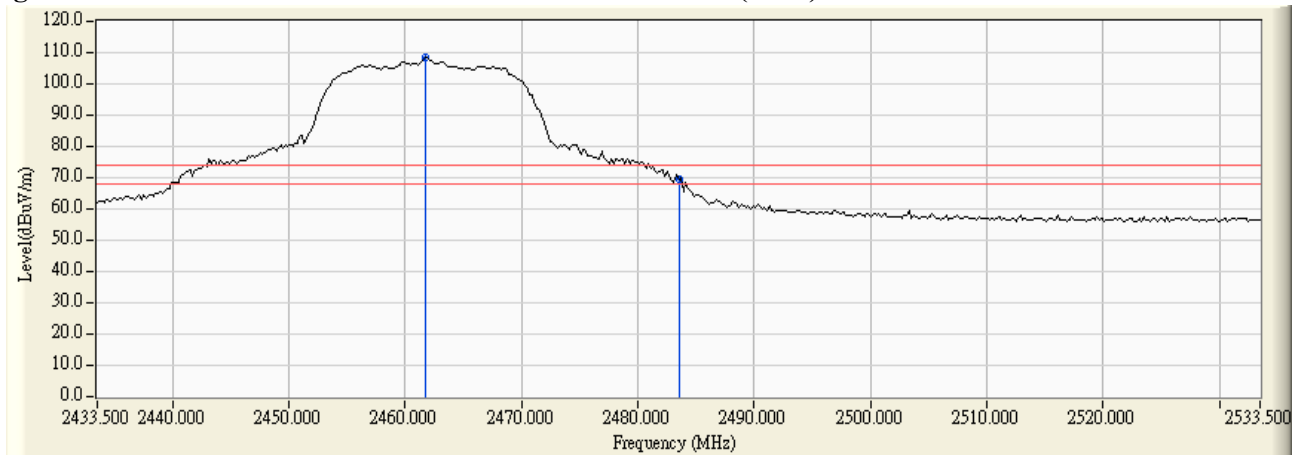
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2461.700	32.017	76.456	108.473	--	--	Pass
11 (Peak)	2483.500	32.182	37.509	69.691	74.00	54.00	Pass
11 (Average)	2461.100	32.013	62.986	94.999	--	--	Pass
11 (Average)	2483.500	32.182	18.246	50.428	74.00	54.00	Pass

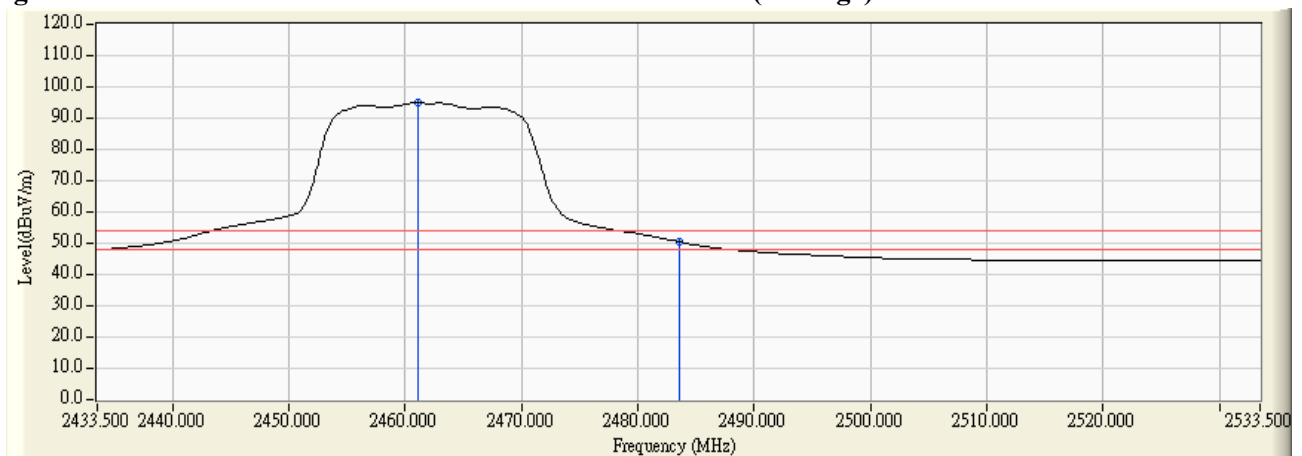
**Figure Channel 11:**

**Horizontal (Peak)**



**Figure Channel 11:**

**Horizontal (Average)**





Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

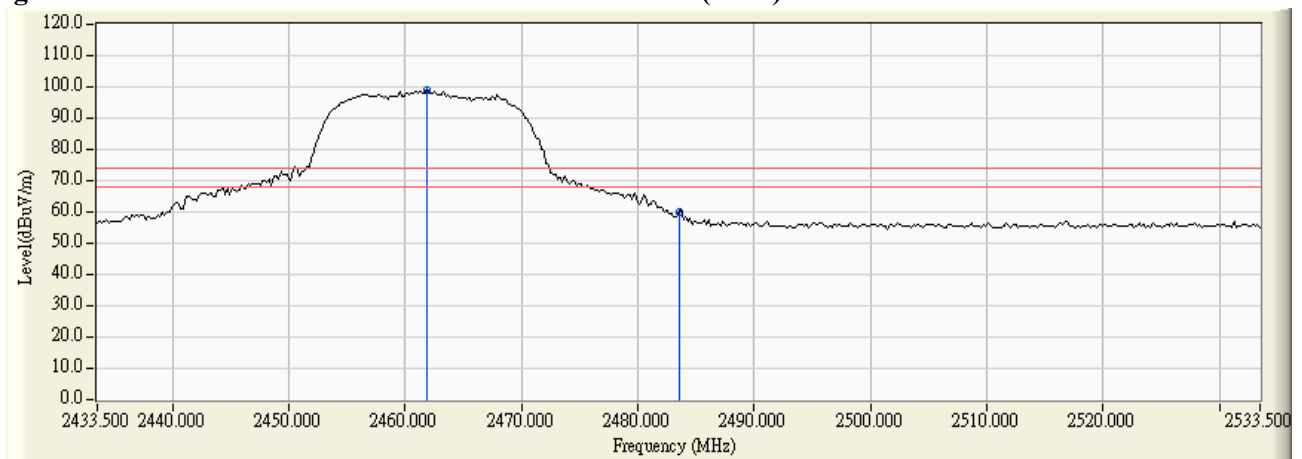
Product : Gaming Android Gem Box  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2461.900	31.289	67.494	98.784	--	--	Pass
11 (Peak)	2483.500	31.435	28.437	59.872	74.00	54.00	Pass
11 (Average)	2461.100	31.285	55.700	86.984	--	--	Pass
11 (Average)	2483.500	31.435	13.567	45.002	74.00	54.00	Pass

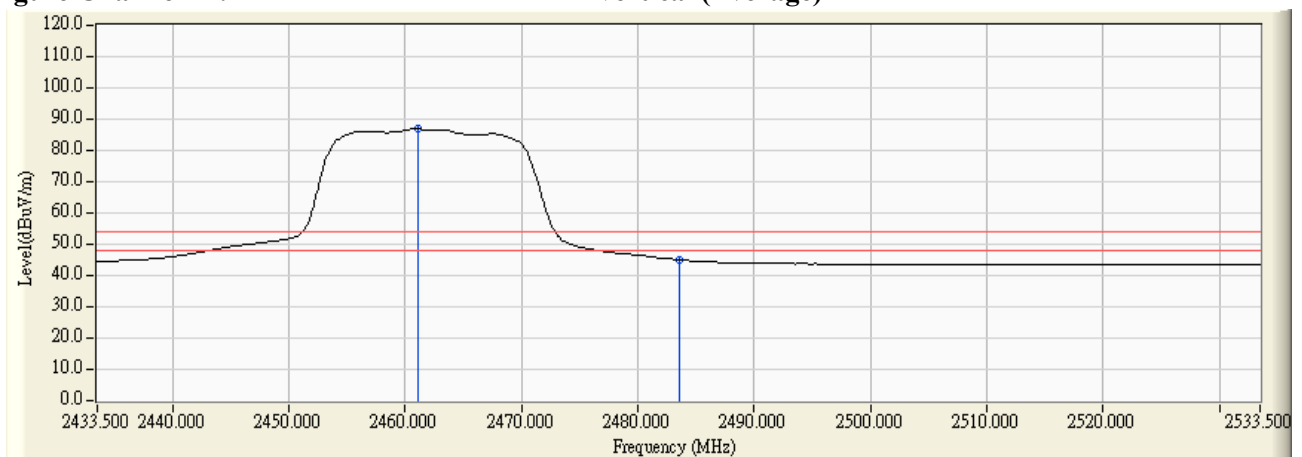
**Figure Channel 11:**

**Vertical (Peak)**



**Figure Channel 11:**

**Vertical (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

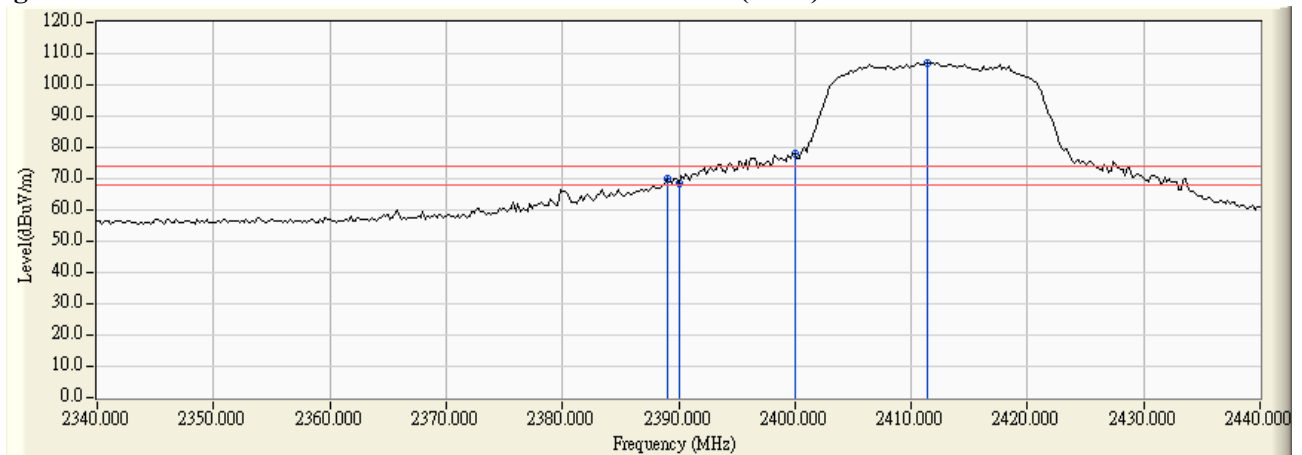
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2412MHz)

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.000	31.505	38.607	70.112	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	36.886	68.395	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	46.486	78.047	--	--	Pass
01 (Peak)	2411.400	31.634	75.258	106.892	--	--	Pass
01 (Average)	2390.000	31.509	21.645	53.154	74.00	54.00	Pass
01 (Average)	2400.000	31.561	26.956	58.517	--	--	Pass
01 (Average)	2411.200	31.632	63.699	95.331	--	--	Pass

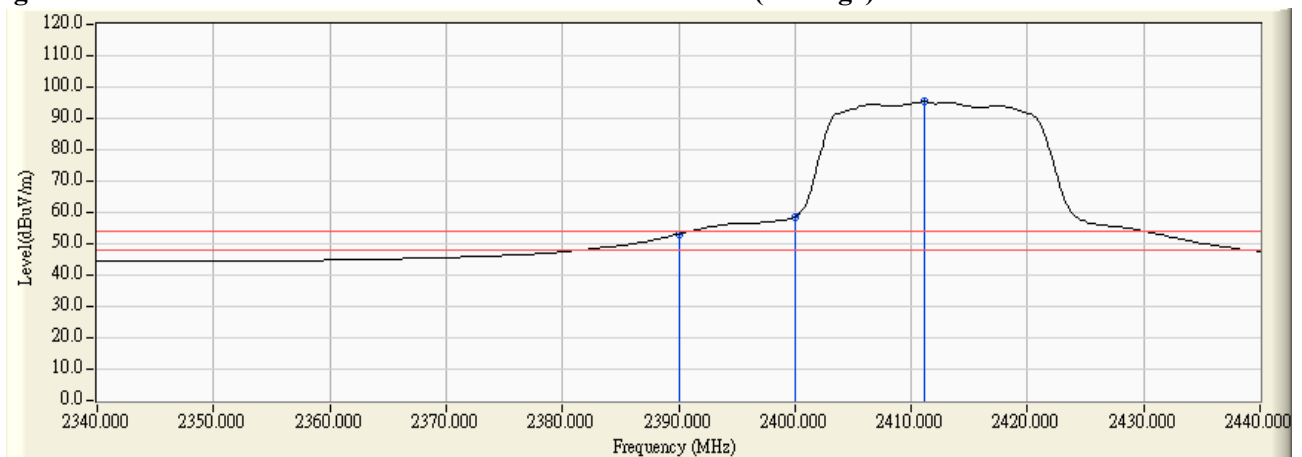
**Figure Channel 01:**

**Horizontal (Peak)**



**Figure Channel 01:**

**Horizontal (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

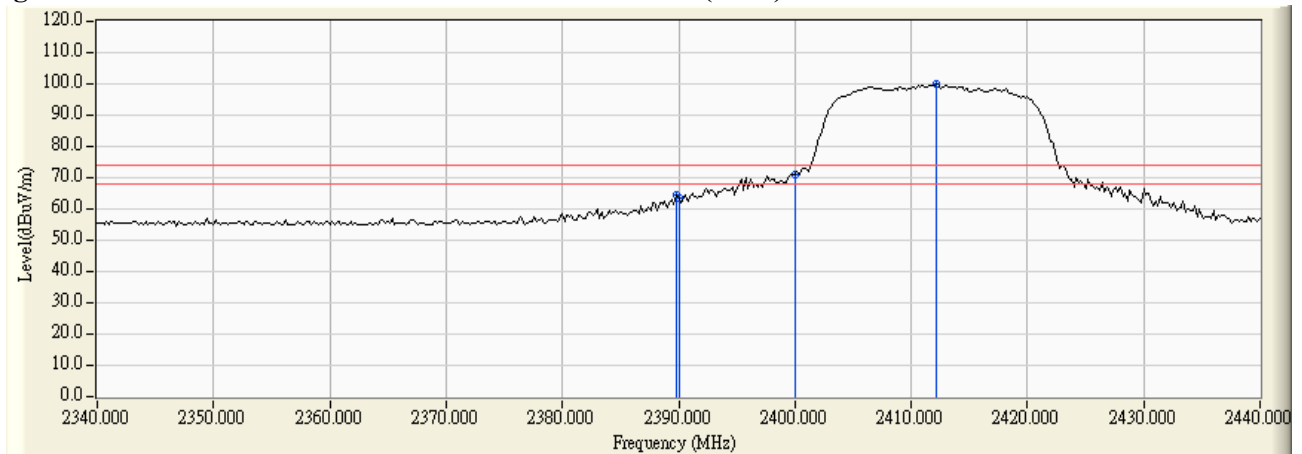
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2412MHz)

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.800	30.916	33.825	64.741	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	32.578	63.493	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	40.227	71.139	--	--	Pass
01 (Peak)	2412.200	30.951	68.815	99.766	--	--	Pass
01 (Average)	2390.000	30.915	16.736	47.651	74.00	54.00	Pass
01 (Average)	2400.000	30.912	21.156	52.068	--	--	Pass
01 (Average)	2411.200	30.944	57.342	88.286	--	--	Pass

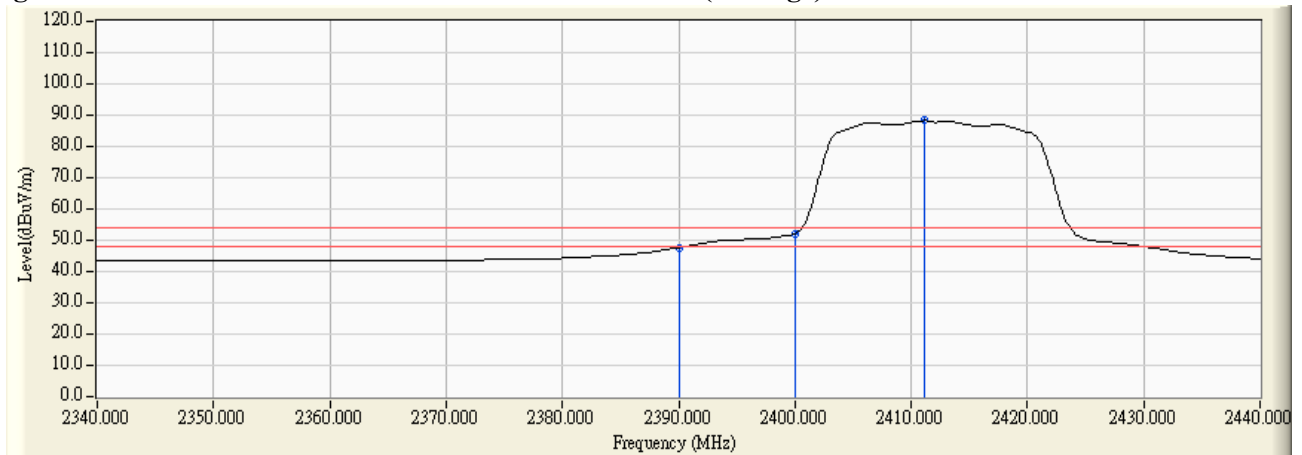
**Figure Channel 01:**

**Vertical (Peak)**



**Figure Channel 01:**

**Vertical (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

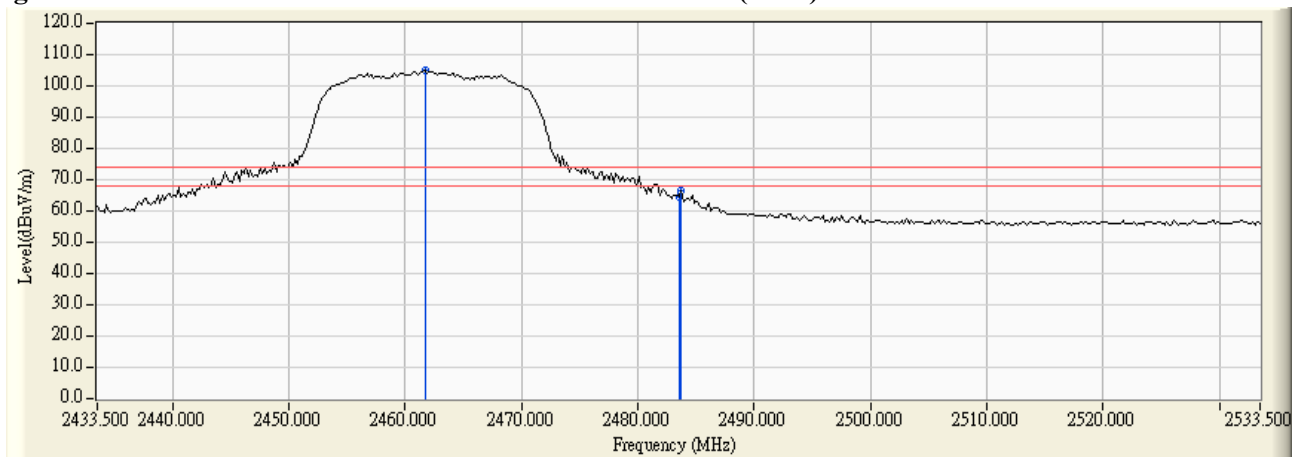
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2462MHz)

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2461.700	32.017	73.186	105.203	--	--	Pass
11 (Peak)	2483.500	32.182	32.114	64.296	74.00	54.00	Pass
11 (Peak)	2483.700	32.183	34.312	66.496	74.00	54.00	Pass
11 (Average)	2461.100	32.013	61.004	93.017	--	--	Pass
11 (Average)	2483.500	32.182	16.690	48.872	74.00	54.00	Pass

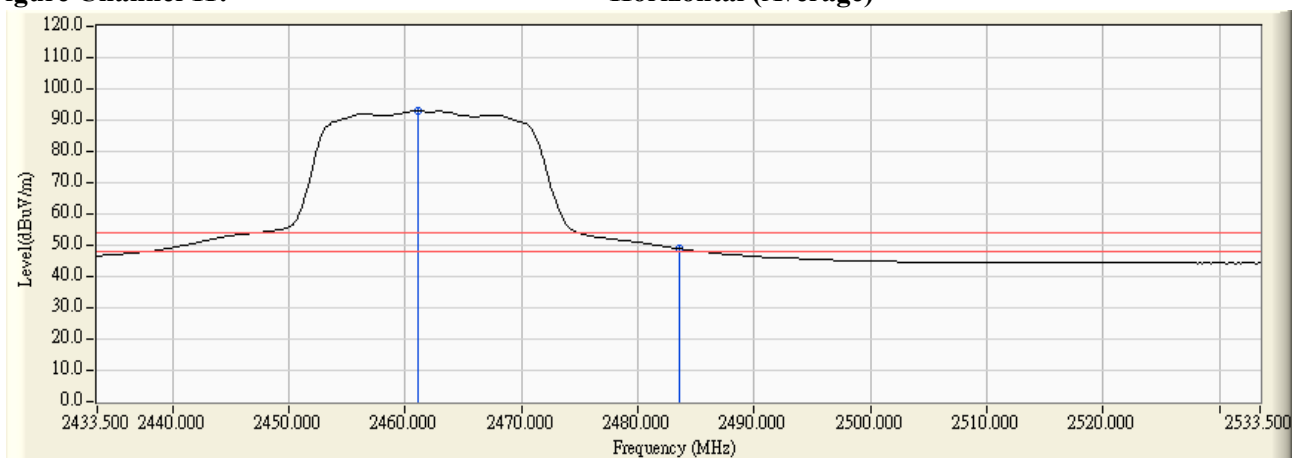
**Figure Channel 11:**

**Horizontal (Peak)**



**Figure Channel 11:**

**Horizontal (Average)**





---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

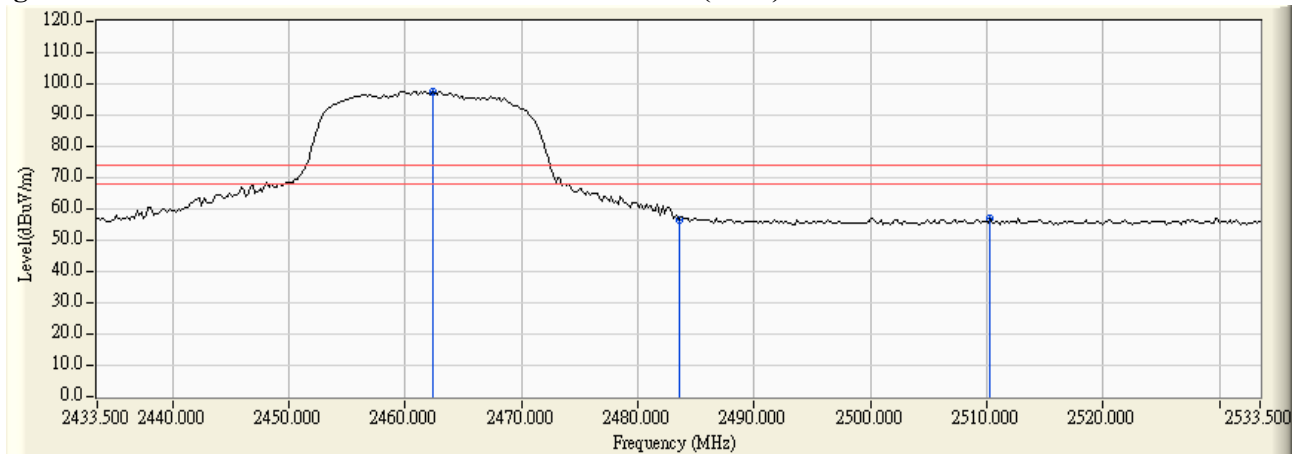
Product : Gaming Android Gem Box  
Test Item : Band Edge Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2462MHz)

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.300	31.293	66.305	97.597	--	--	Pass
11 (Peak)	2483.500	31.435	24.889	56.324	74.00	54.00	Pass
11 (Peak)	2510.300	31.548	25.676	57.224	74.00	54.00	Pass
11 (Average)	2460.900	31.283	54.821	86.104	--	--	Pass
11 (Average)	2483.500	31.435	13.142	44.577	74.00	54.00	Pass

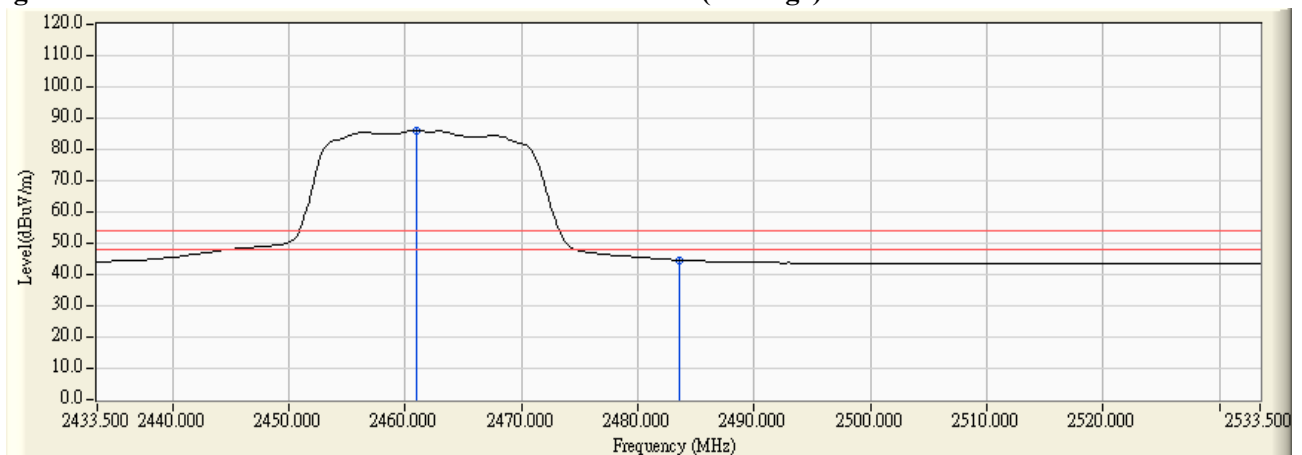
**Figure Channel 11:**

**Vertical (Peak)**



**Figure Channel 11:**

**Vertical (Average)**



---

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

## 7. Occupied Bandwidth

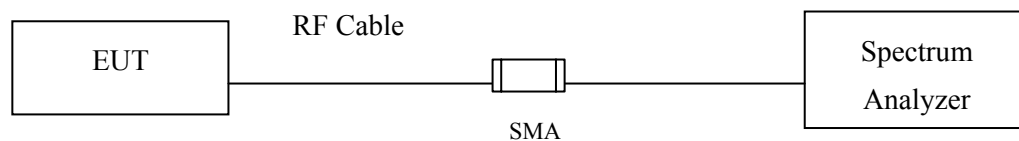
### 7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

### 7.2. Test Setup



### 7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

### 7.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan KDB558074 for compliance to FCC 47CFR 15.247 requirements.

### 7.5. Uncertainty

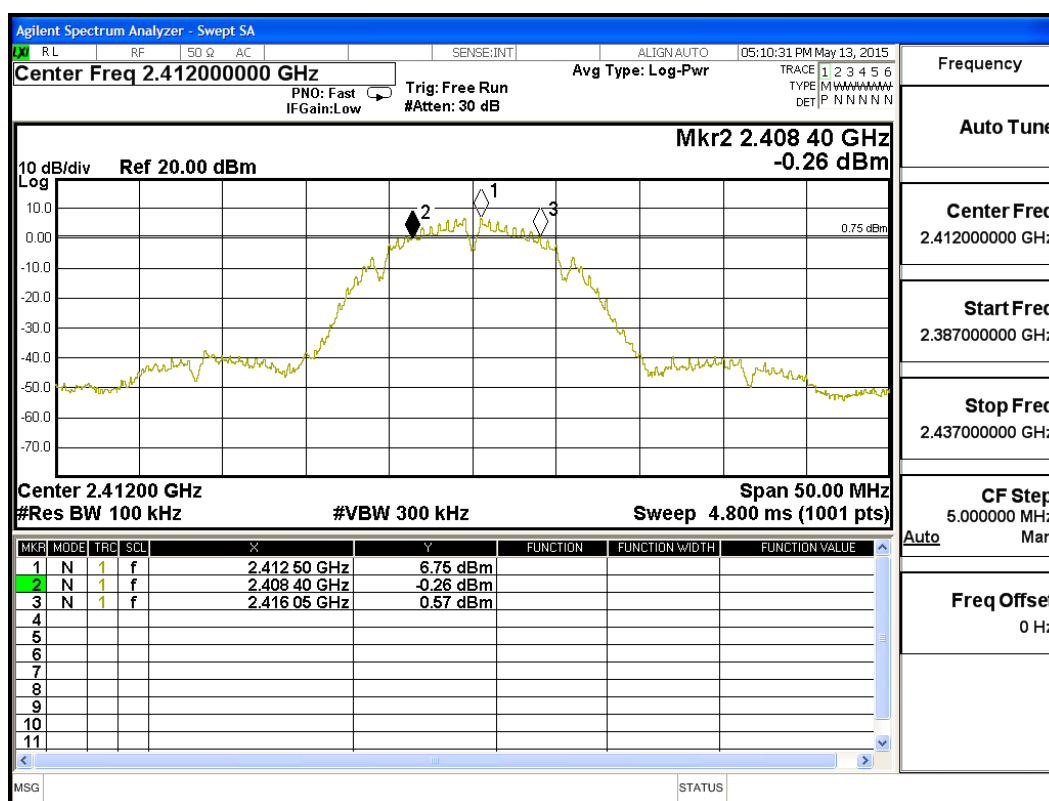
$\pm 150\text{Hz}$

## 7.6. Test Result of Occupied Bandwidth

Product : Gaming Android Gem Box  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	7650	>500	Pass

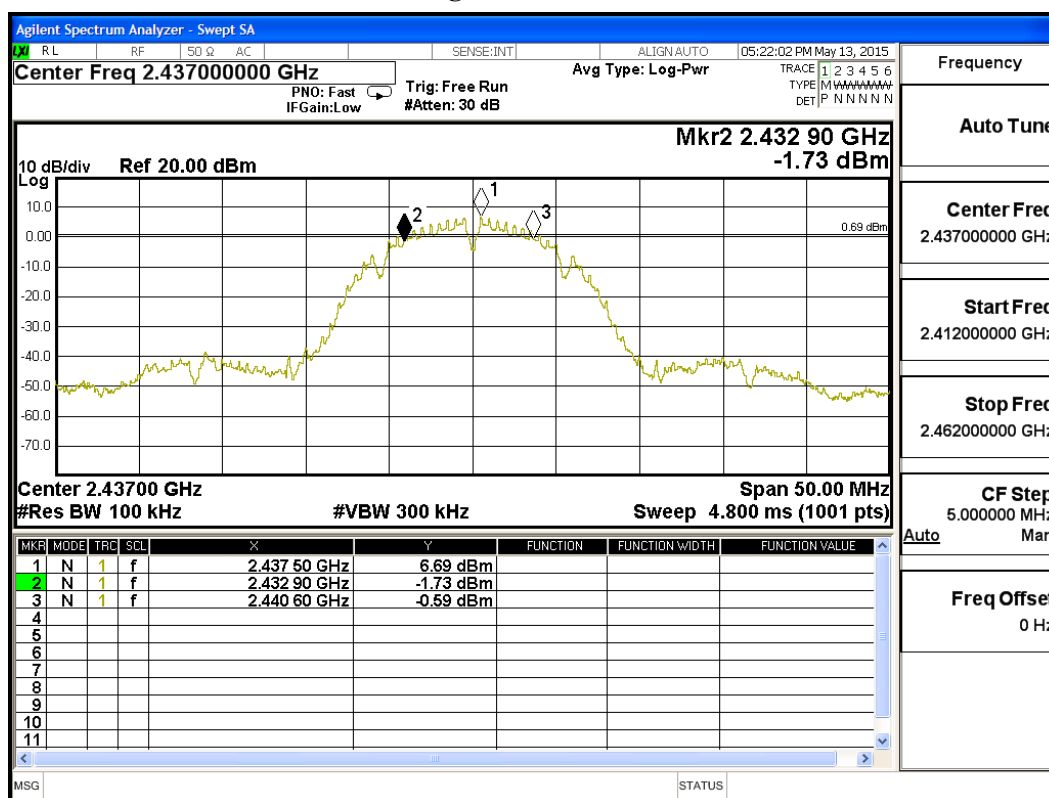
Figure Channel 1:



Product : Gaming Android Gem Box  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437	7700	>500	Pass

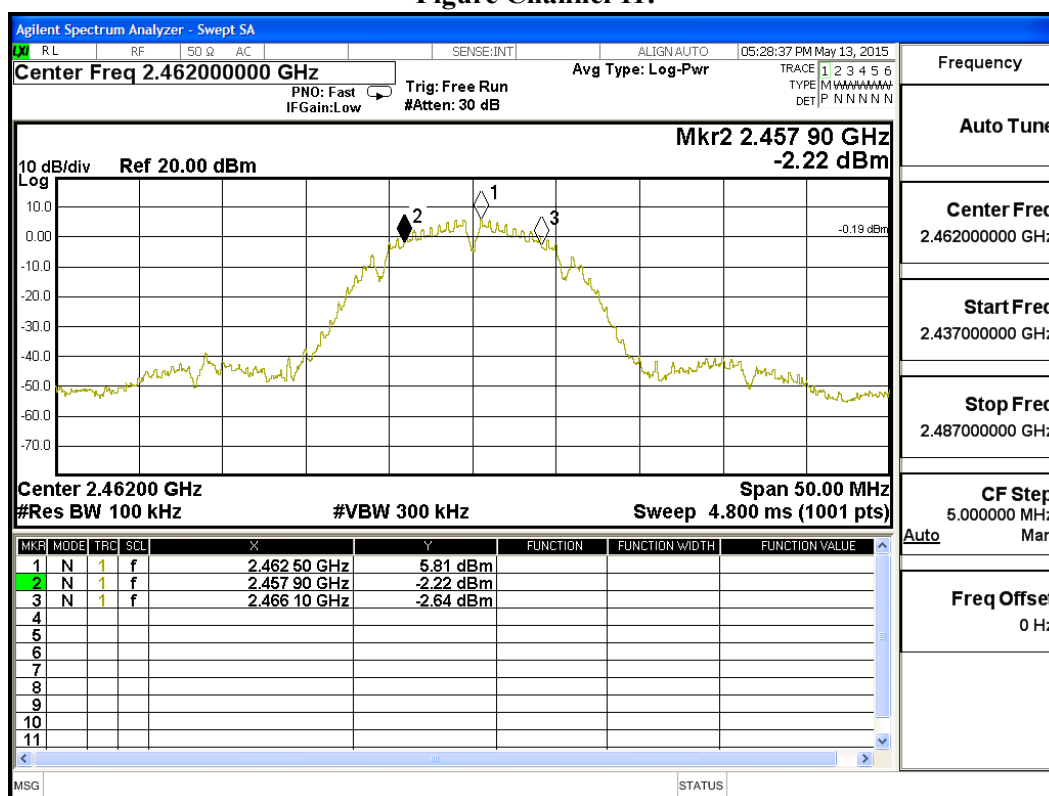
**Figure Channel 6:**



Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462	8200	>500	Pass

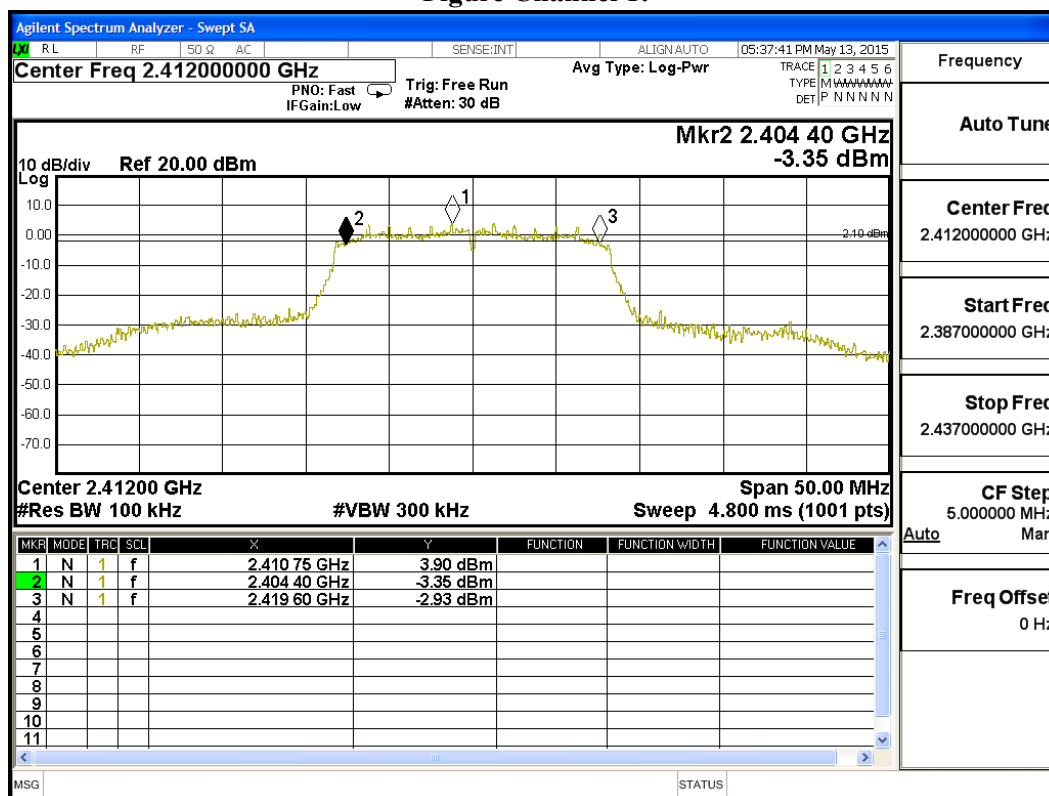
Figure Channel 11:



Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	15556	>500	Pass

Figure Channel 1:

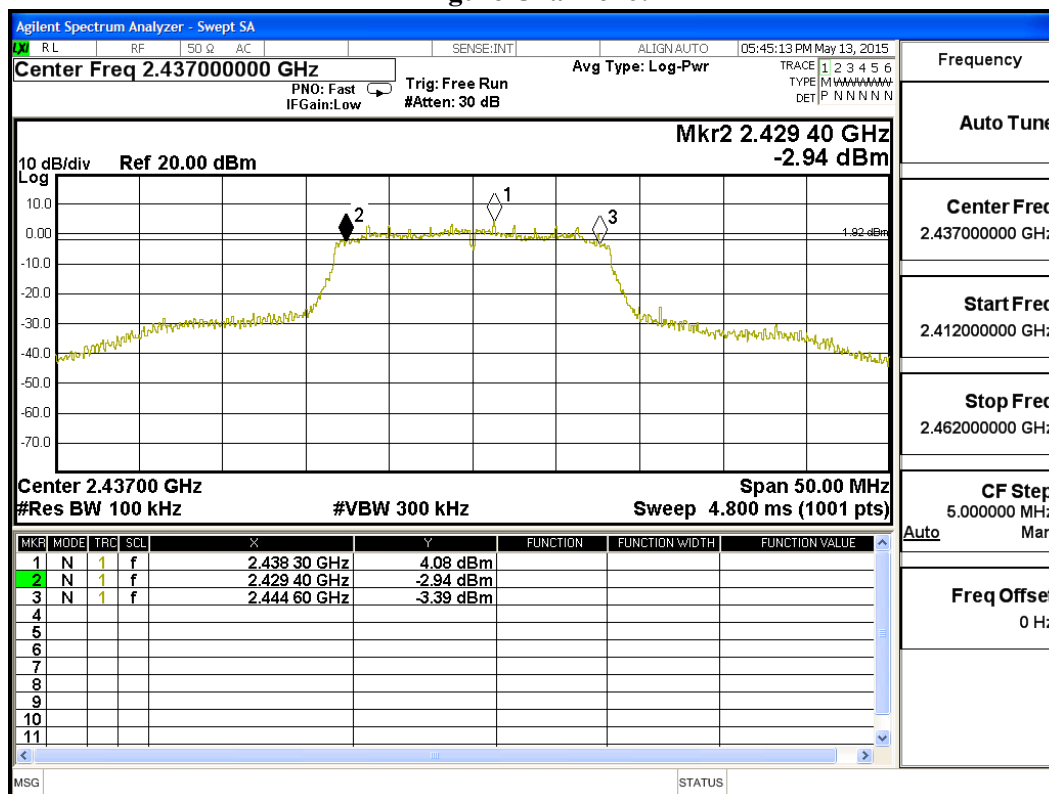




Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437	15200	>500	Pass

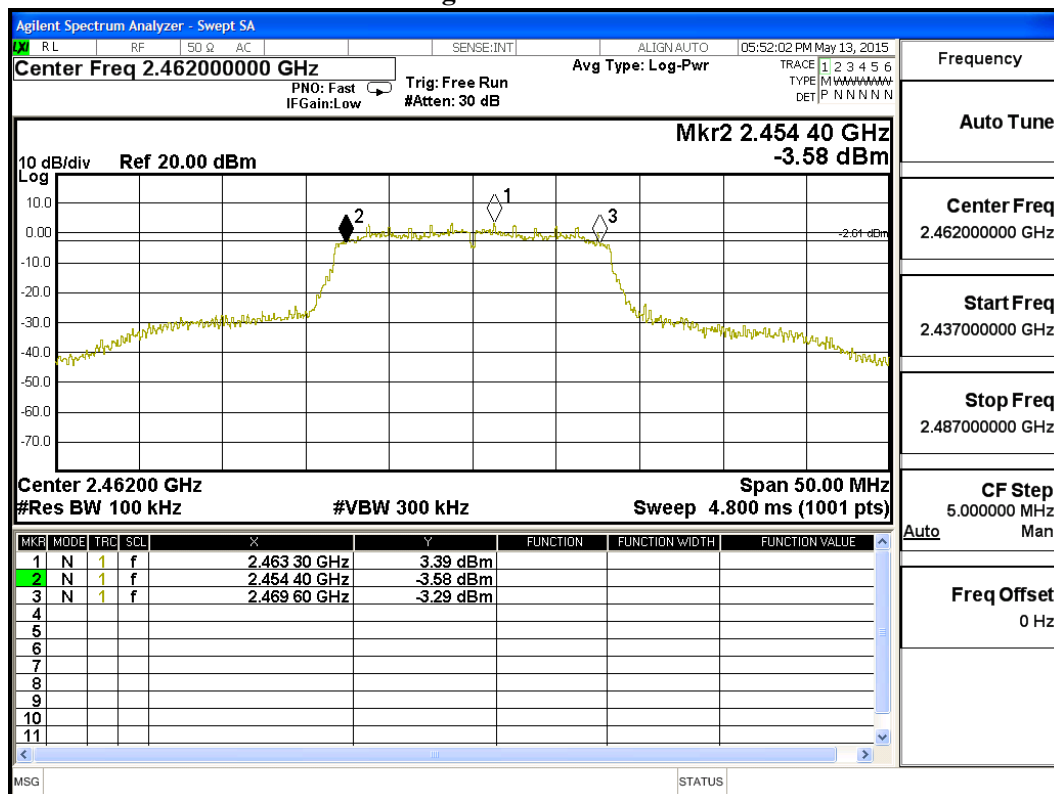
Figure Channel 6:



Product : Gaming Android Gem Box  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462	15200	>500	Pass

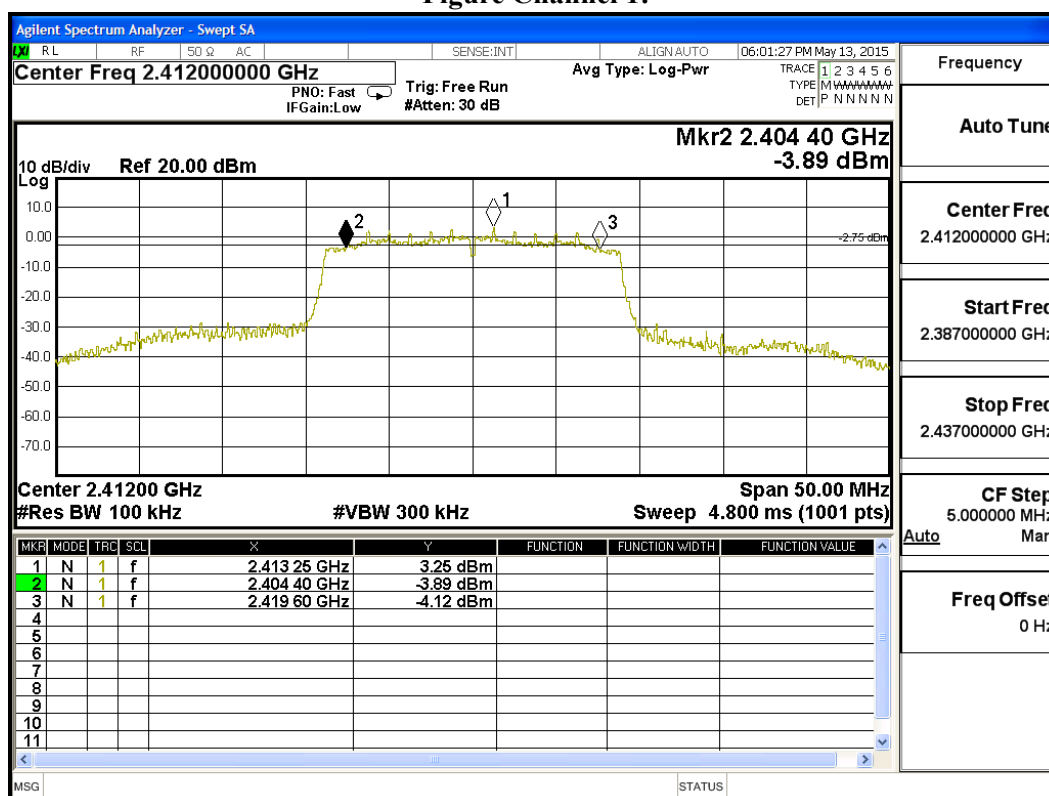
**Figure Channel 11:**



Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	15200	>500	Pass

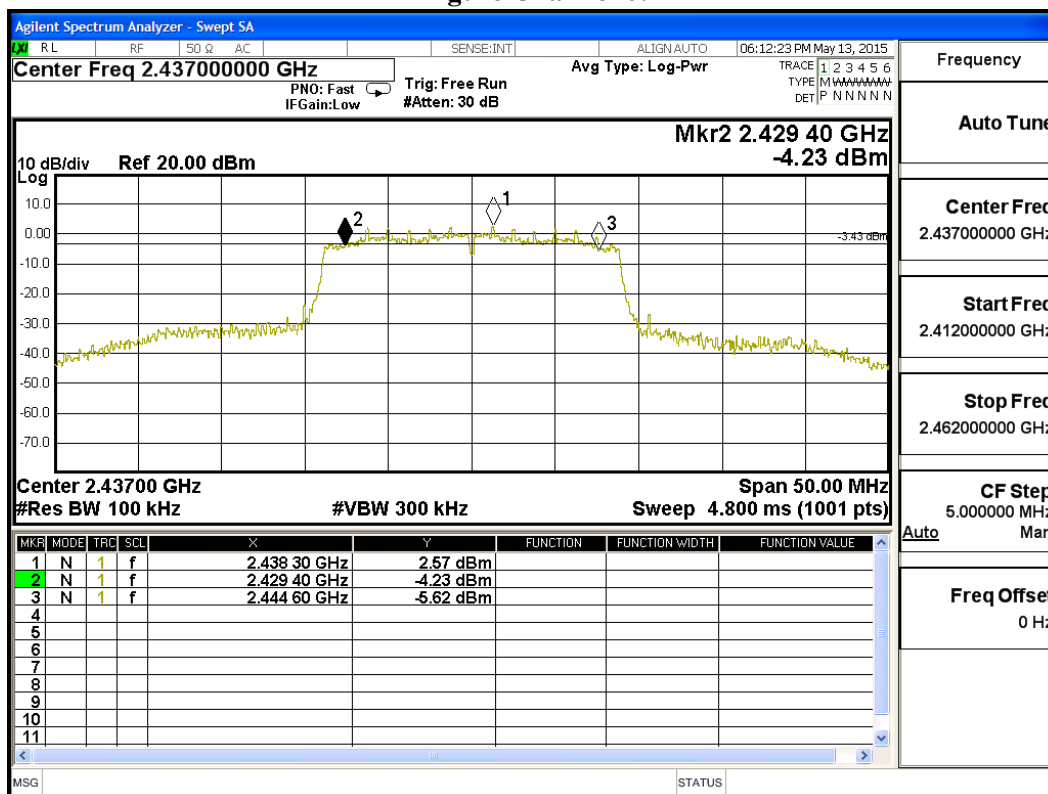
Figure Channel 1:



Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437	15200	>500	Pass

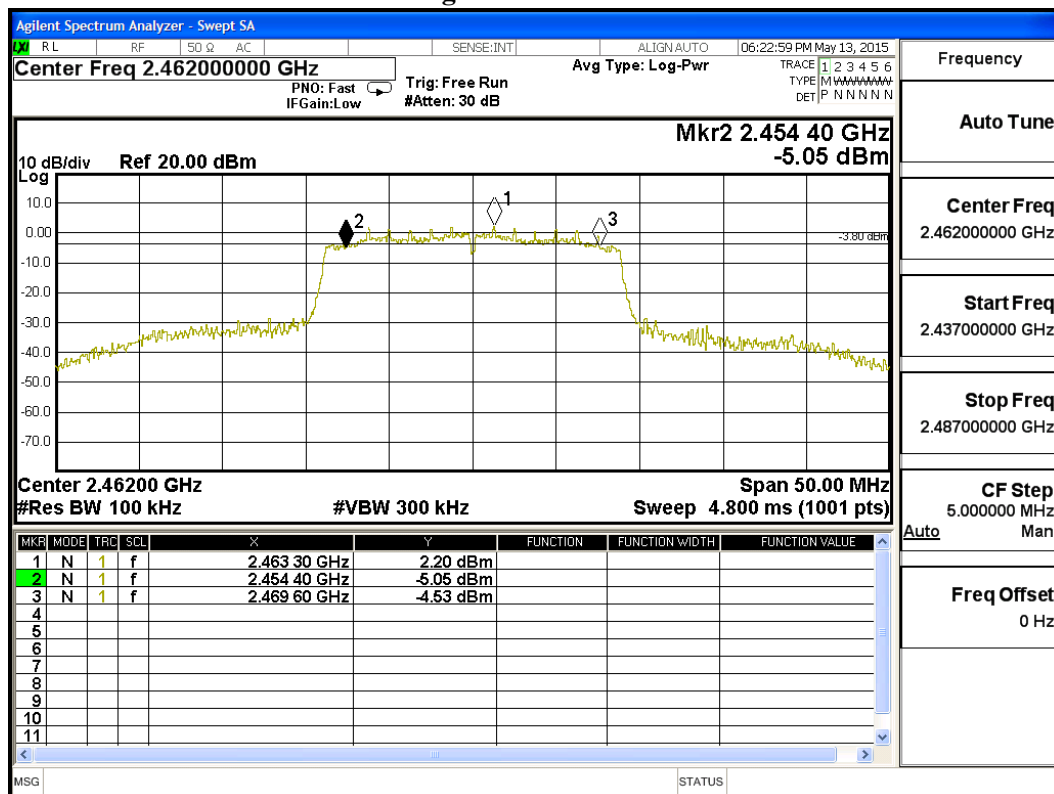
Figure Channel 6:



Product : Gaming Android Gem Box  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462	15200	>500	Pass

Figure Channel 11:



## 8. Power Density

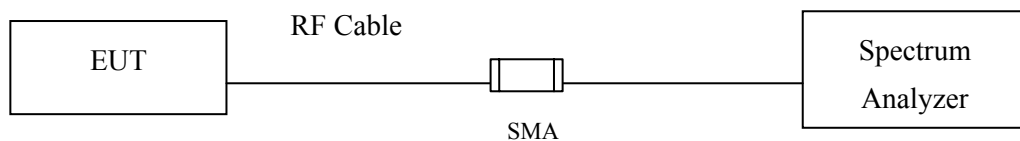
### 8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

### 8.2. Test Setup



### 8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

### 8.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

### 8.5. Uncertainty

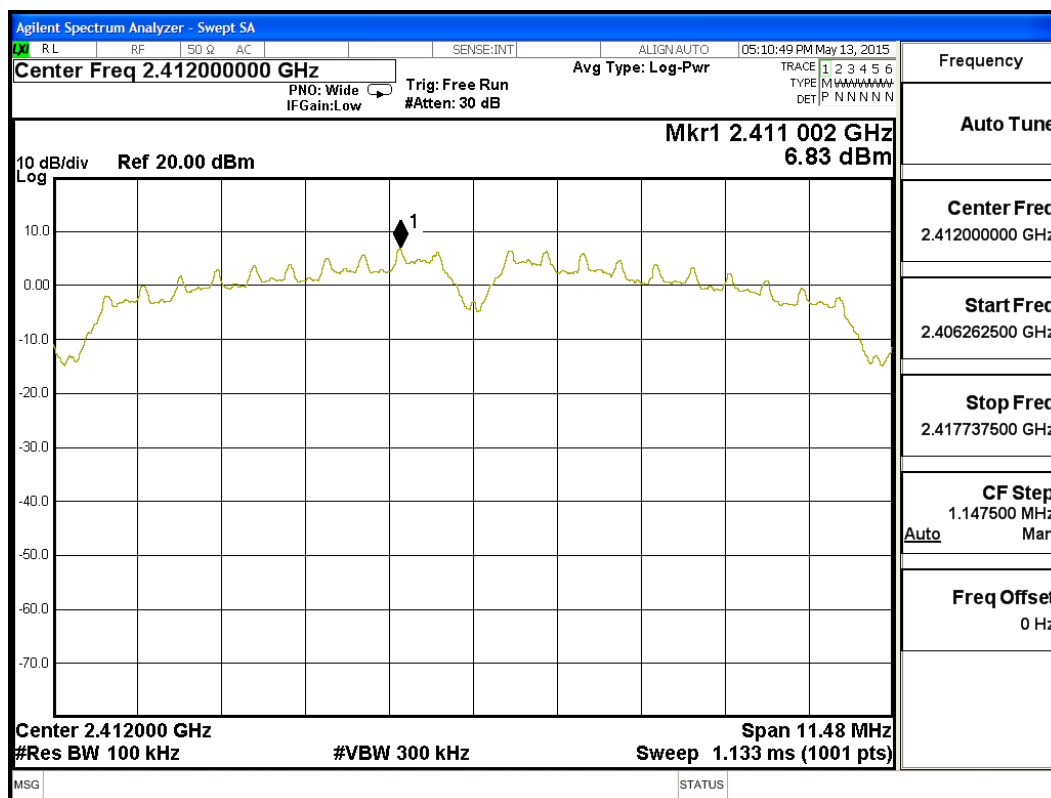
$\pm 1.27$  dB

## 8.6. Test Result of Power Density

Product : Gaming Android Gem Box  
Test Item : Power Density Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	6.83	< 8dBm	Pass

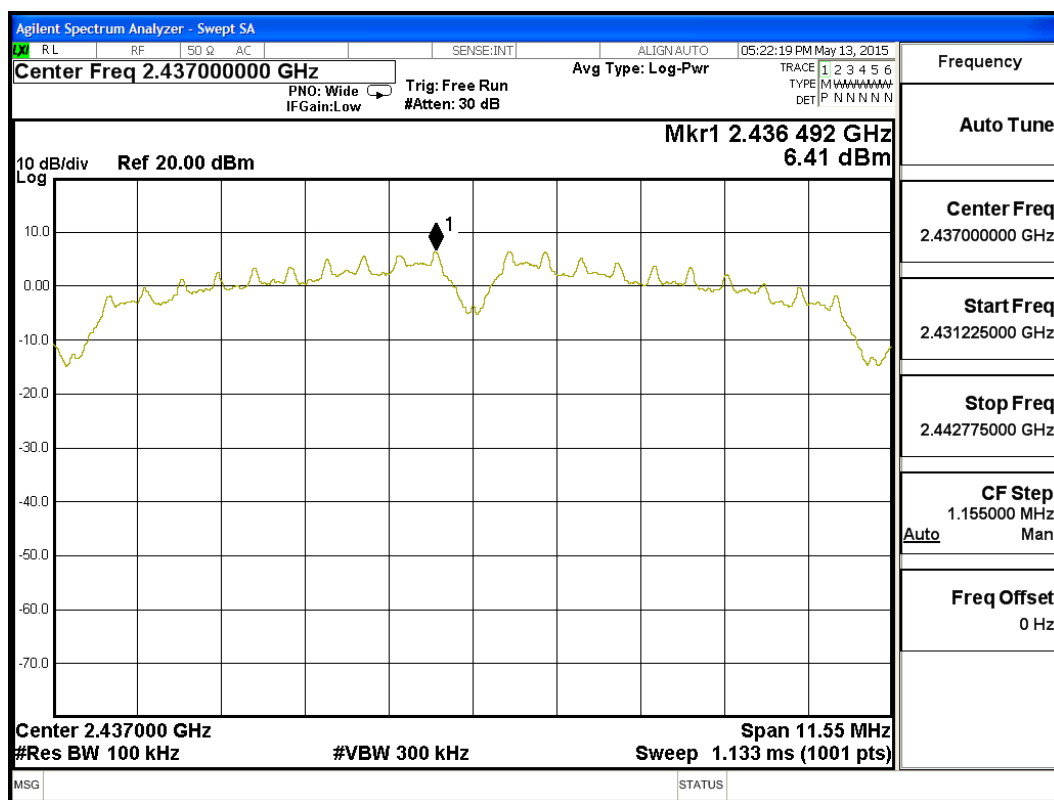
**Figure Channel 1:**



Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437	6.41	< 8dBm	Pass

Figure Channel 6:

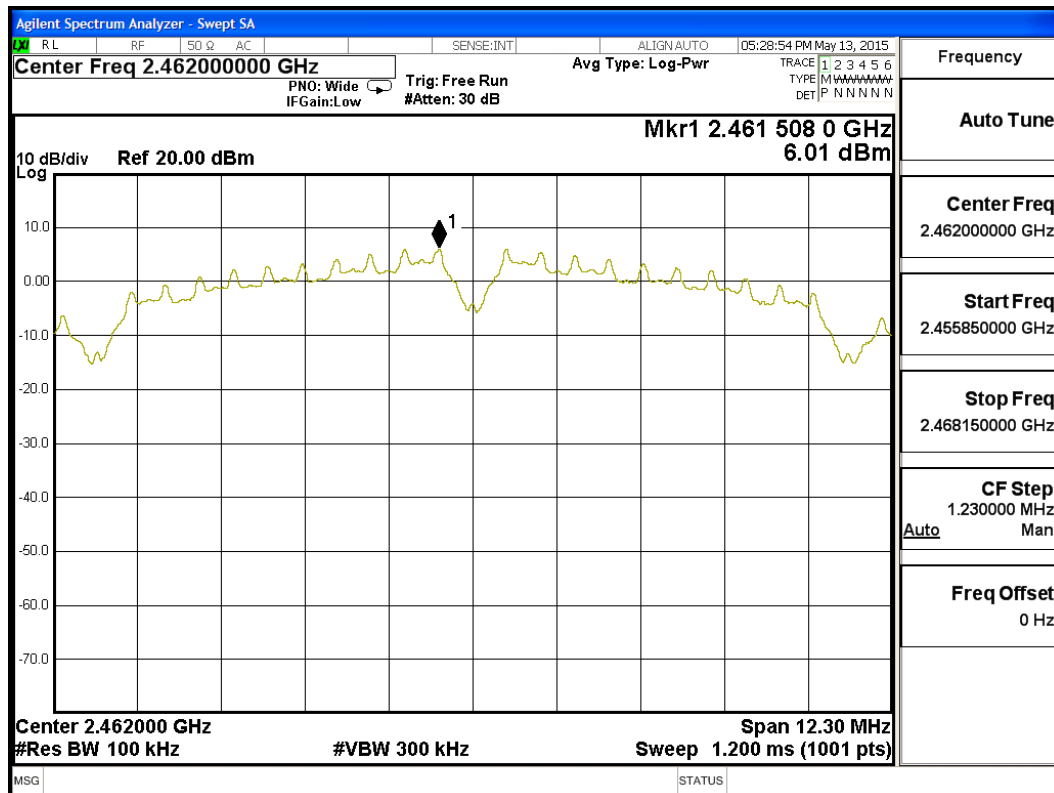




Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462	6.01	< 8dBm	Pass

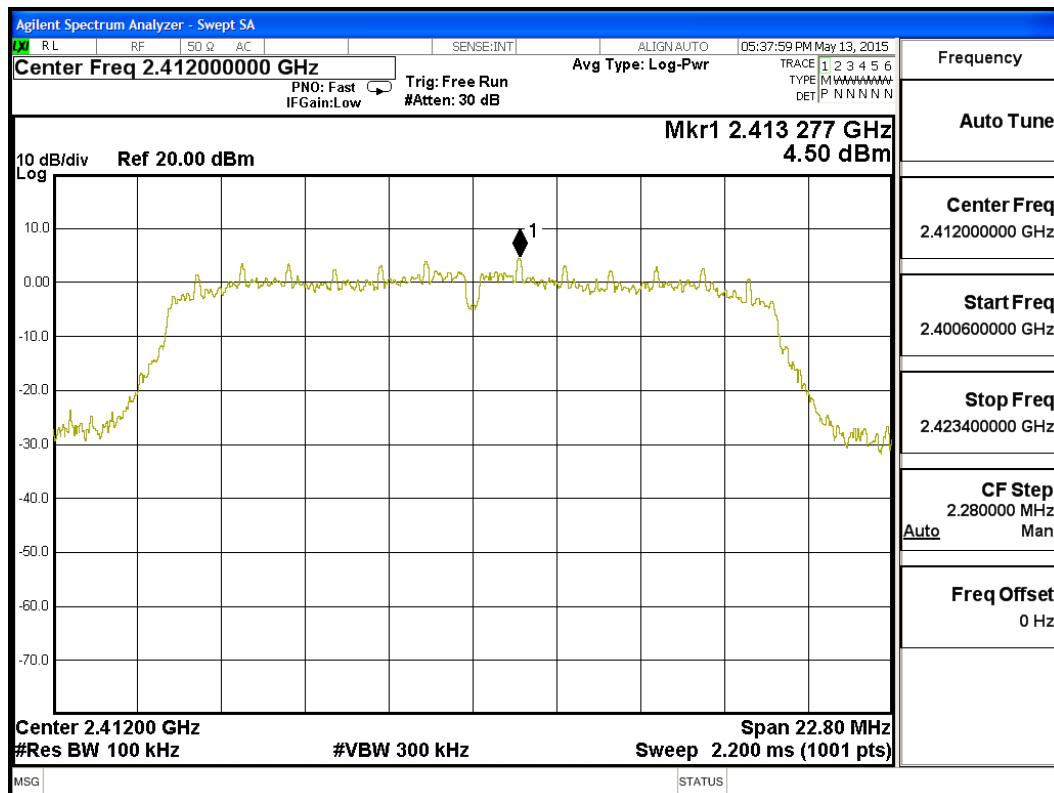
Figure Channel 11:



Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	4.50	< 8dBm	Pass

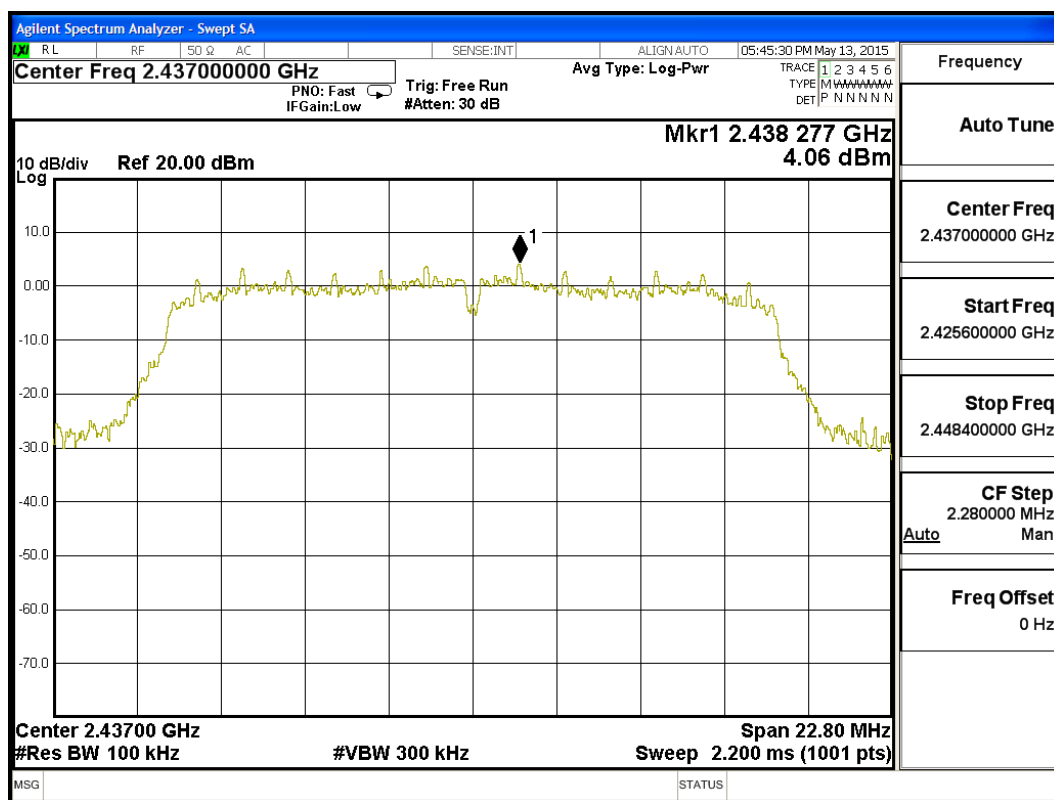
Figure Channel 1:



Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437	4.06	< 8dBm	Pass

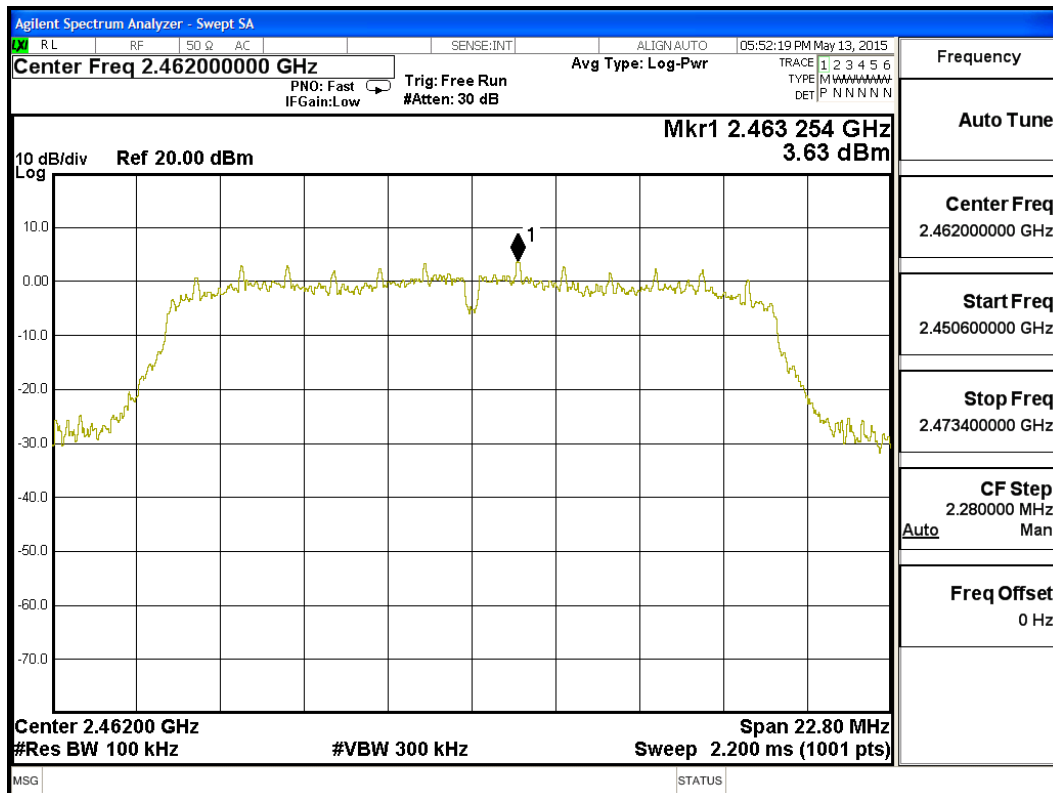
Figure Channel 6:



Product : Gaming Android Gem Box  
Test Item : Power Density Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462	3.63	< 8dBm	Pass

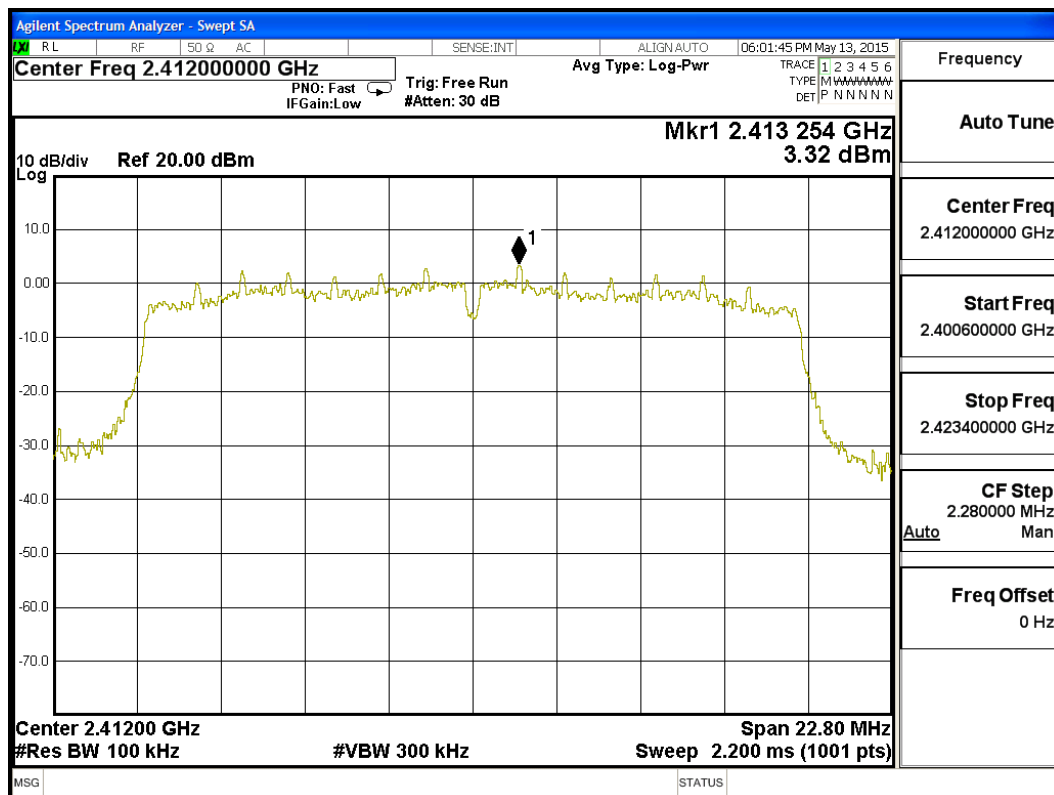
**Figure Channel 11:**



Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	3.32	< 8dBm	Pass

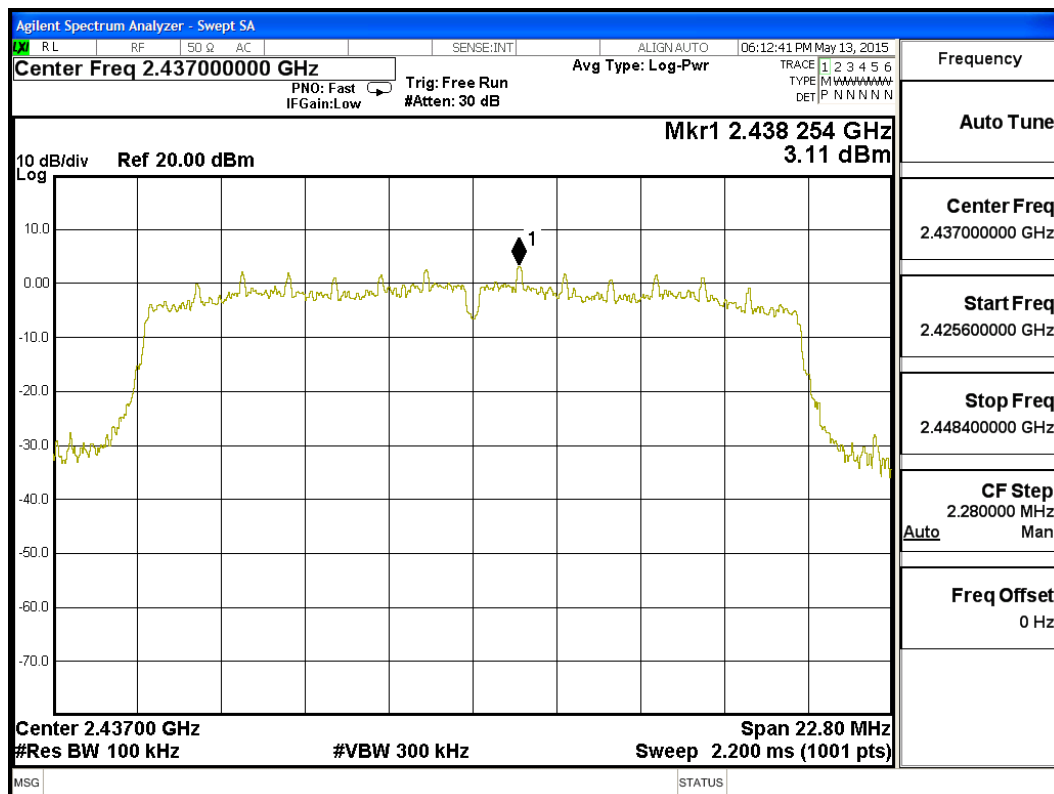
Figure Channel 1:



Product : Gaming Android Gem Box  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437	3.11	< 8dBm	Pass

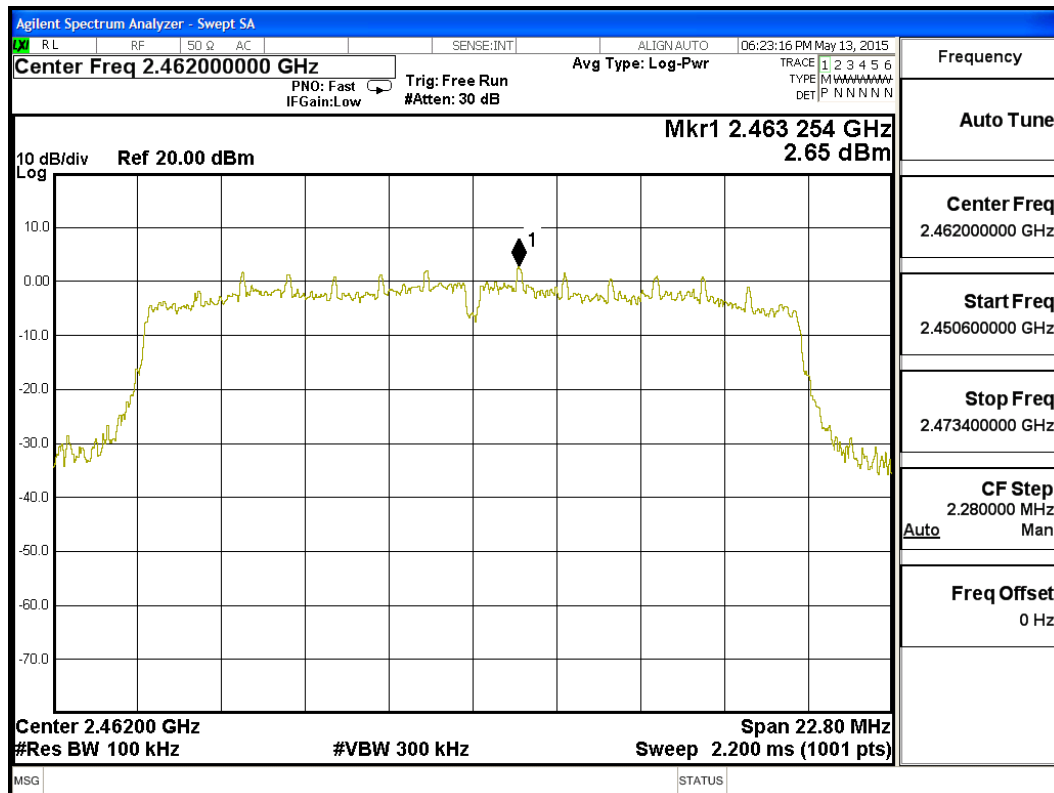
Figure Channel 6:



Product : Gaming Android Gem Box  
Test Item : Power Density Data  
Test Site : No.3 OATS  
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20MBW) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462	2.65	< 8dBm	Pass

**Figure Channel 11:**



**9. EMI Reduction Method During Compliance Testing**

No modification was made during testing.



## Attachment 1: EUT Test Photographs

## Attachment 2: EUT Detailed Photographs