

FCC PART 15.247  
MEASUREMENT AND TEST REPORT

For  
**Verykool USA Inc.**

4350 Executive Dr. #100, San Diego, CA 92121, USA

**FCC ID: WA6I650**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Mobile Phone
<b>Test Engineer:</b> <u>Kvass Yang</u> <i>Kvass. Yang</i>	
<b>Report Number:</b> <u>RSZ10110205-15.247Wi-Fi</u>	
<b>Report Date:</b> <u>2010-12-08</u>	
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP\*, NIST, or any agency of the Federal Government.  
\* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "\*" (Rev.2)

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## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The *Verykool USA Inc.*'s product, model number: *i650* (FCC ID: WA6I650) or the "EUT" as referred to in this report is a *GSM&GPRS Dual Standby Mobile Phone*, which measures approximately: 11.4 cm (L) x 6.2 cm (W) x 1.5 cm (H), rated input voltage: DC 3.7 V battery.

\*Note: The serial product model *i650*, *DG890*. We select *i650* to test, and all of the models are electrically identical, only their difference is the color appearances, which was explained in the attached declaration letter.

#### Frequency Range:

Cellular Band: 824-849 MHz (Tx), 869-894 MHz (Rx)  
PCS Band: 1850-1910 MHz (Tx), 1930-1990 MHz (Rx)  
Bluetooth: 2400-2483.5 MHz (Tx/Rx)  
Wi-Fi: 2412-2462 MHz (Tx/Rx)

Modulation Mode: GMSK (PCS/DCS); GFSK (Bluetooth); WiFi (DSSS/OFDM)

#### Rated Transmitter Output Power:

Cellular Band: 33 dBm, PCS Band: 30 dBm  
Bluetooth: 0 dBm, Wi-Fi: 13.51dBm

*\* All measurement and test data in this report was gathered from production sample serial number: 1011013 (Assigned by BACL, Shenzhen). The EUT was received on 2010-11-02.*

### Objective

This Type approval report is prepared on behalf of *Verykool USA Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Related Submittal(s)/Grant(s)

FCC Part 22H&24E submission with FCC ID: WA6I650.  
FCC Part 15.247 of BT portion submission with FCC ID: WA6I650.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 802.11b and 802.11g mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

### EUT Exercise Software

N/A

### Equipment Modifications

No modification was made to the unit tested.

### Local Support Equipment List and Details

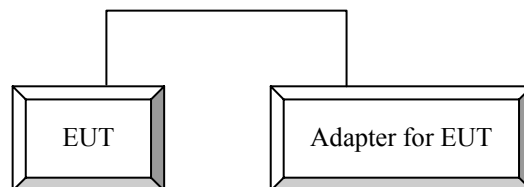
Manufacturer	Description	Model	Serial Number	FCC ID
DELL	Laptop	D600	N/A	N/A

### External I/O Cable

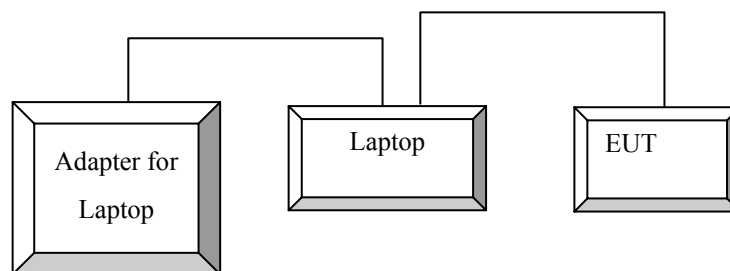
Cable Description	Length (m)	From Port	To
Unshielded Detachable USB Cabel	1.0	Laptop	EUT

## Configuration of Test Setup

For Adapter Charging & Transmitting:

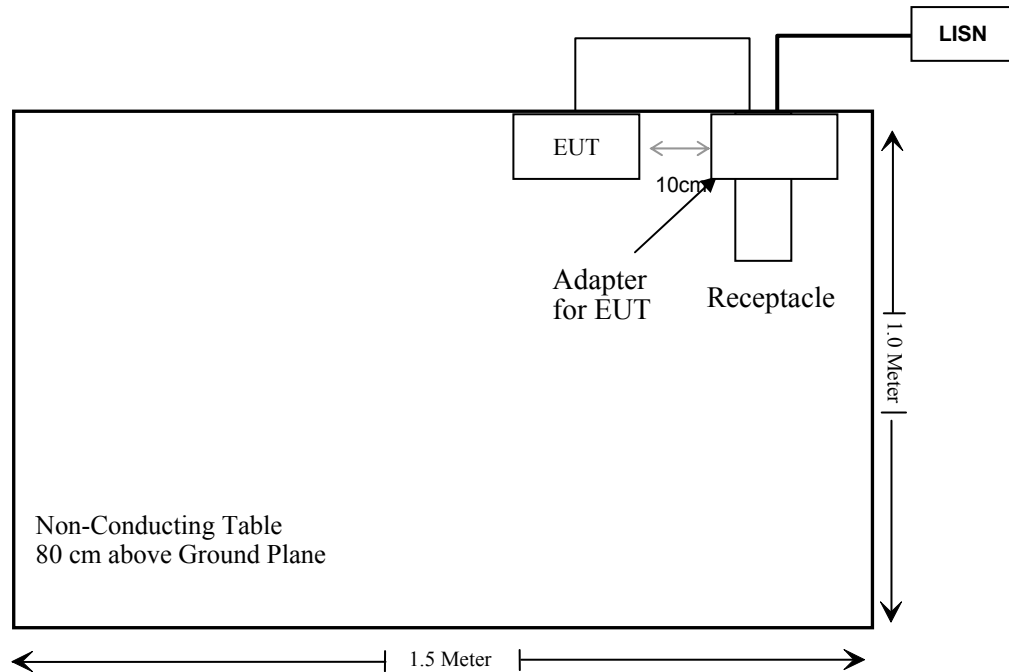


For Laptop Charging & Transmitting:

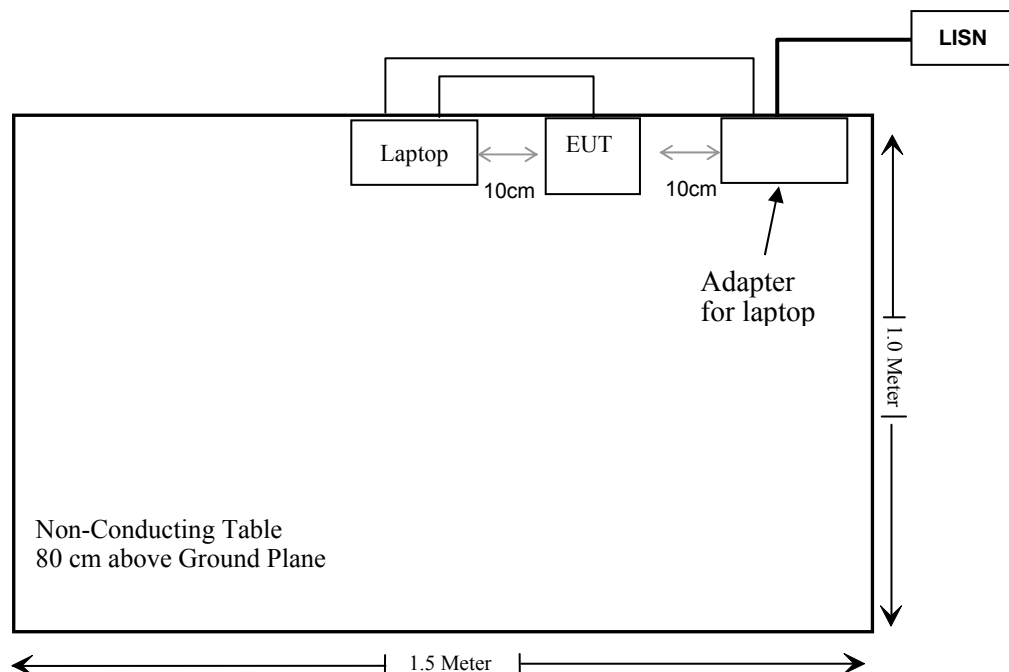


**Block Diagram of Test Setup**

For Adapter Charging &amp; Transmitting:



For Laptop Charging &amp; Transmitting:





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**SUMMARY OF TEST RESULTS**

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FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a),	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions & Restricted Bands	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

## FCC §15.247 (i) & §2.1093 – RF EXPOSURE INFORMATION

### Applicable Standard

According to FCC §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

**Table 2 – Summary of SAR Evaluation Requirements for a Cell Phone with Multiple Transmitters**

	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	<u>Routine evaluation required</u>	<b>SAR not required:</b> <u>Unlicensed only</u> <ul style="list-style-type: none"> <li>when stand-alone 1-g SAR is not required and antenna is <math>\geq 5</math> cm from other antennas</li> </ul> <u>Licensed &amp; Unlicensed</u> <ul style="list-style-type: none"> <li>when the sum of the 1-g SAR is <math>&lt; 1.6</math> W/kg for all simultaneous transmitting antennas</li> <li>when SAR to peak location separation ratio of simultaneous transmitting antenna pair is <math>&lt; 0.3</math></li> </ul> <b>SAR required:</b> <u>Licensed &amp; Unlicensed</u> antenna pairs with SAR to peak location separation ratio $\geq 0.3$ ; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition <b>Note: simultaneous transmission exposure conditions for head and body can be different for different style phones; therefore, different test requirements may apply</b>
Unlicensed Transmitters	<p><b>When there is no simultaneous transmission –</b></p> <ul style="list-style-type: none"> <li>output <math>\leq 60</math> f: SAR not required</li> <li>output <math>&gt; 60</math> f: stand-alone SAR required</li> </ul> <p><b>When there is simultaneous transmission –</b> <u>Stand-alone SAR not required when</u></p> <ul style="list-style-type: none"> <li>output <math>\leq 2 \cdot P_{Ref}</math> and antenna is <math>\geq 5.0</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>\geq 2.5</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>&lt; 2.5</math> cm from other antennas, each with either output power <math>\leq P_{Ref}</math> or 1-g SAR <math>&lt; 1.2</math> W/kg</li> </ul> <p><u>Otherwise stand-alone SAR is required</u></p> <p><b>When stand-alone SAR is required</b></p> <ul style="list-style-type: none"> <li>test SAR on highest output channel for each wireless mode and exposure condition</li> <li>if SAR for highest output channel is <math>&gt; 50\%</math> of SAR limit, evaluate all channels according to normal procedures</li> </ul>	
Jaw, Mouth and Nose	<u>Flat phantom SAR required</u> <ul style="list-style-type: none"> <li>when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues</li> <li>position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations</li> </ul>	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

**Note:**

The distance between Wi-Fi and GSM antenna is 6.7 cm > 5.0 cm and the max EIRP output power of Wi-Fi antenna is 22.44 mW  $\leq 2 \cdot P_{\text{Ref}}$  (24 mW). According to KDB 648474, stand-alone SAR is not required for Wi-Fi antenna.

**Result:**

The stand-alone SAR of Wi-Fi antenna can be exempted.

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## FCC §15.203 - ANTENNA REQUIREMENT

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### Applicable Standard

According to FCC §15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Antenna Connector Construction

The EUT has a PIFA antenna on PCB, which complies with the Part 15.203. The maximum antenna gain is 0 dBi. Please see EUT photo for details.

**Result:** Compliant.

### FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

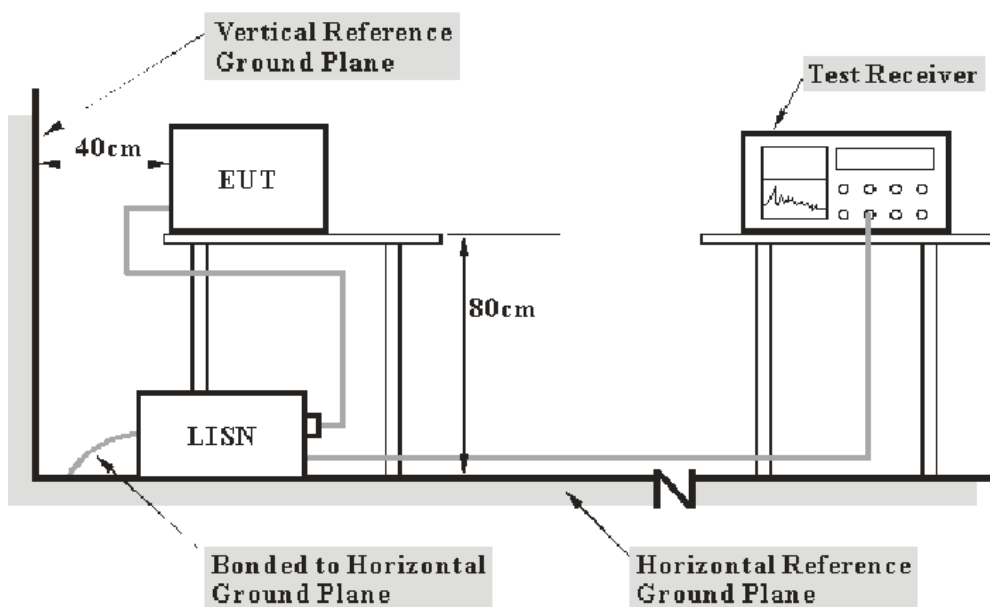
FCC §15.207

## Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is +2.4 dB.

## EUT Setup



**Note: 1. Support units were connected to second LISN.**

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

## EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<b><i>Frequency Range</i></b>	<b><i>IF B/W</i></b>
150 kHz – 30 MHz	9 kHz

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2010-03-03	2011-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2010-03-09	2011-03-08

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

For Adapter Charging & Transmitting: **8.67 dB** at **4.450 MHz** in the **Neutral** conductor mode (802.11g)

## Test Data

### Environmental Conditions

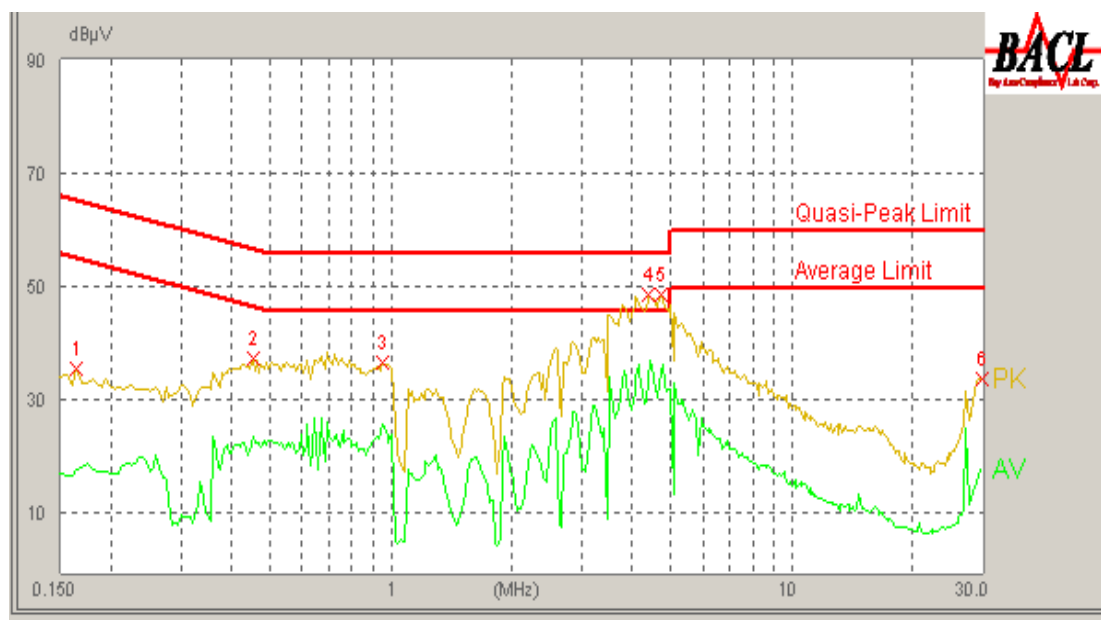
<b>Temperature:</b>	25 ° C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.0 kPa

*The testing was performed by Kvass Yang on 2010-11-18.*

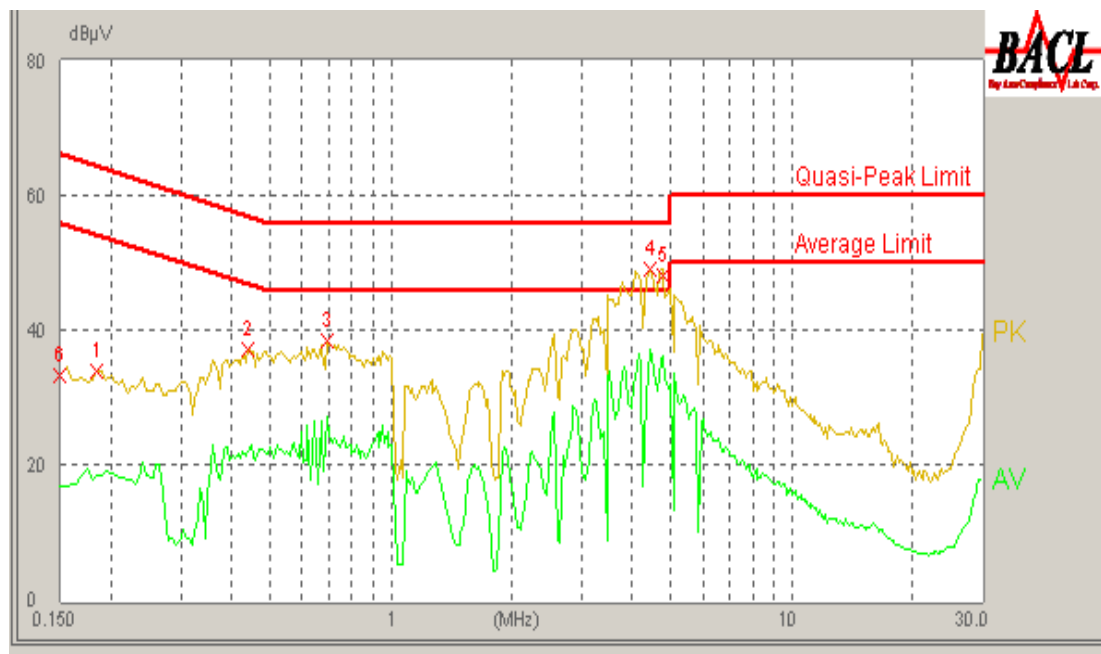
Test Mode: Adapter Charging & Transmitting

802.11b:

120 V, 60 Hz, Line:



Conducted Emissions			FCC Part 15.247		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Remark (PK/QP/Ave)
4.450	10.10	37.14	46.00	8.86	Ave
4.740	10.10	34.94	46.00	11.06	Ave
4.735	10.10	44.90	56.00	11.10	QP
4.400	10.10	44.81	56.00	11.19	QP
0.955	10.20	26.13	46.00	19.87	Ave
0.955	10.20	34.79	56.00	21.21	QP
0.455	10.00	23.78	47.29	23.51	Ave
0.455	10.00	33.17	57.29	24.12	QP
29.760	10.20	18.18	50.00	31.82	Ave
29.750	10.20	26.57	60.00	33.43	QP
0.165	10.10	28.58	65.57	36.99	QP
0.165	10.10	18.09	55.57	37.48	Ave

**120V, 60 Hz, Neutral:**

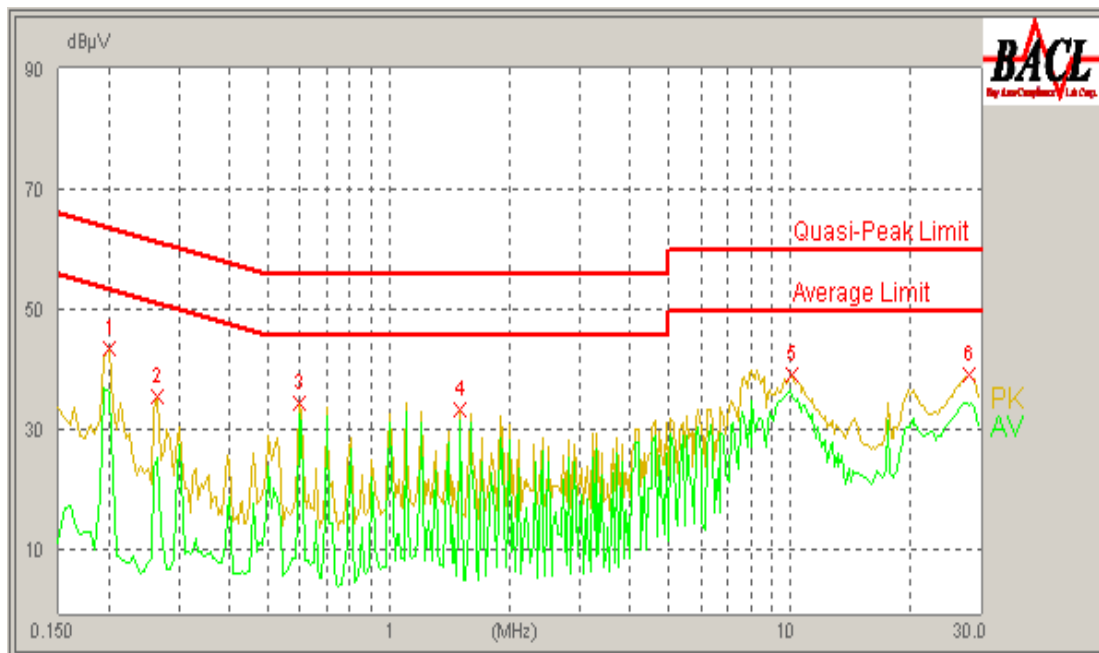
Conducted Emissions			FCC Part 15.247		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Remark (PK/QP/Ave)
4.450	10.10	37.33	46.00	8.67	Ave
4.785	10.10	36.36	46.00	9.64	Ave
4.760	10.10	46.03	56.00	9.97	QP
4.420	10.10	45.24	56.00	10.76	QP
0.695	10.20	27.34	46.00	18.66	Ave
0.695	10.20	35.37	56.00	20.63	QP
0.440	10.00	32.25	57.71	25.46	QP
0.440	10.00	22.15	47.71	25.56	Ave
0.185	10.10	18.64	55.00	36.36	Ave
0.185	10.10	28.07	65.00	36.93	QP
0.150	10.10	28.19	66.00	37.81	QP
0.150	10.10	17.07	56.00	38.93	Ave



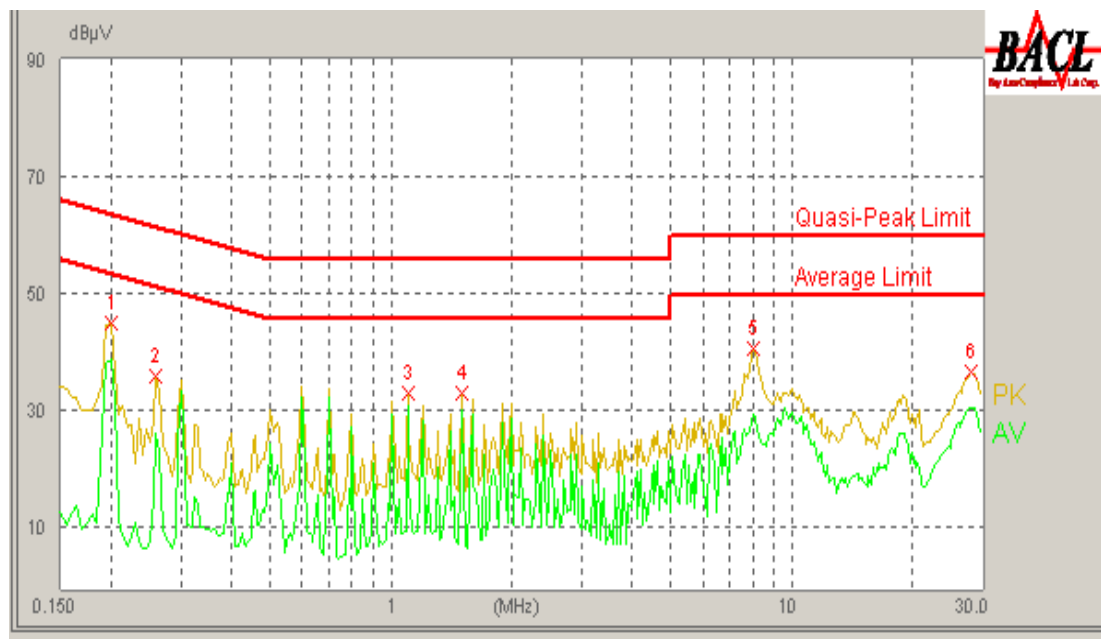
Test Mode: Laptop Charging & Transmitting

802.11b:

120 V, 60 Hz, Line:



Conducted Emissions			FCC Part 15.247		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Remark (PK/QP/Ave)
0.600	10.20	32.77	46.00	13.23	Ave
1.505	10.10	32.03	46.00	13.97	Ave
10.130	10.10	35.81	50.00	14.19	Ave
27.975	10.20	34.38	50.00	15.62	Ave
0.200	10.10	36.58	54.57	17.99	Ave
0.600	10.20	34.13	56.00	21.87	QP
27.875	10.20	36.58	60.00	23.42	QP
1.505	10.10	32.57	56.00	23.43	QP
10.130	10.10	34.66	60.00	25.34	QP
0.265	10.10	25.59	52.71	27.12	Ave
0.200	10.10	36.77	64.57	27.80	QP
0.265	10.10	29.46	62.71	33.25	QP

**120V, 60 Hz, Neutral:**

Conducted Emissions			FCC Part 15.247		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Remark (PK/QP/Ave)
1.100	10.10	31.14	46.00	14.86	Ave
0.200	10.10	39.23	54.57	15.34	Ave
1.505	10.10	30.40	46.00	15.60	Ave
28.060	10.20	30.64	50.00	19.36	Ave
8.015	10.10	29.52	50.00	20.48	Ave
0.200	10.10	43.70	64.57	20.87	QP
1.100	10.10	32.21	56.00	23.79	QP
1.505	10.10	30.86	56.00	25.14	QP
0.260	10.10	26.60	52.86	26.26	Ave
27.955	10.20	33.54	60.00	26.46	QP
7.995	10.10	32.70	60.00	27.30	QP
0.260	10.10	31.54	62.86	31.32	QP

## FCC §15.209, §15.205 & §15.247(d) – RADIATED SPURIOUS EMISSIONS

### Applicable Standard

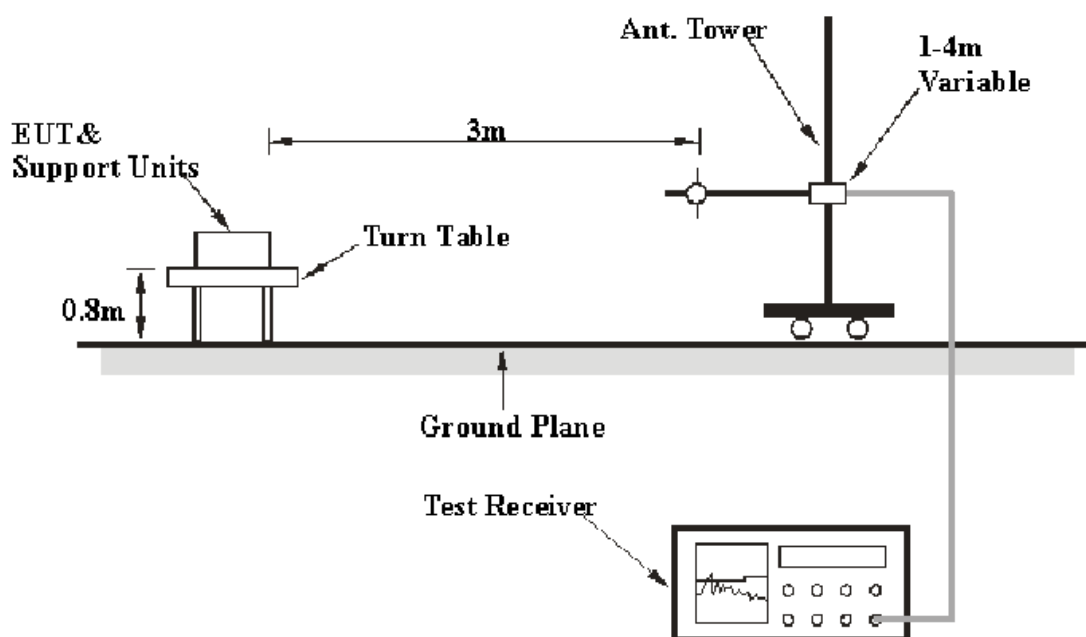
FCC §15.247 (d); §15.209; §15.205;

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is  $\pm 4.0$  dB.

### EUT Setup



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i><b>Frequency Range</b></i>	<i><b>RBW</b></i>	<i><b>Video B/W</b></i>	<i><b>Detector</b></i>
30 MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
HP	Amplifier	HP8447D	2944A09795	2010-08-02	2011-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-07	2011-11-06
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2010-03-11	2011-03-11
HP	Amplifier	2VA-213+	T-E27H	2010-03-08	2011-03-07
Sunol Sciences	Horn Antenna	DRH-118	A052604	2010-05-05	2011-05-04
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2010-07-08	2011-07-08

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Procedure

For the radiated emissions test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, and section 15.205, 15.209 and 15.247, with the worst margin reading of:

### Below 1 GHz:

*Laptop Charging & Transmitting:* **3.8 dB** at **207.995000 MHz** in the **Vertical** polarization (802.11b)

### Above 1 GHz:

**3.95 dB** at **4874 MHz** in the **Vertical polarization** (802.11g in Middle Channel)

## Test Data

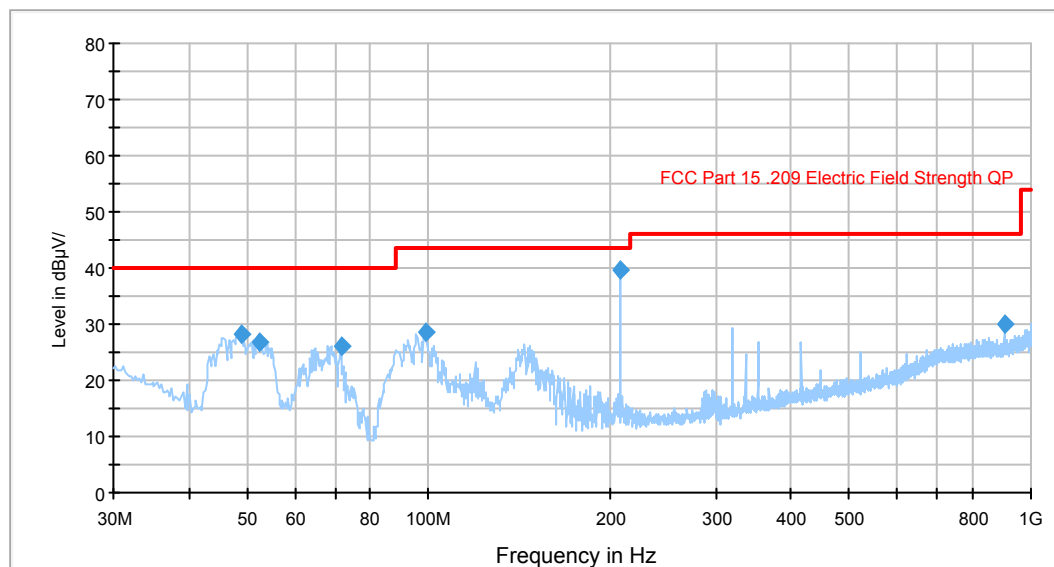
### Environmental Conditions

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.0kPa

*The testing was performed by Kvass Yang on 2010-12-05.*

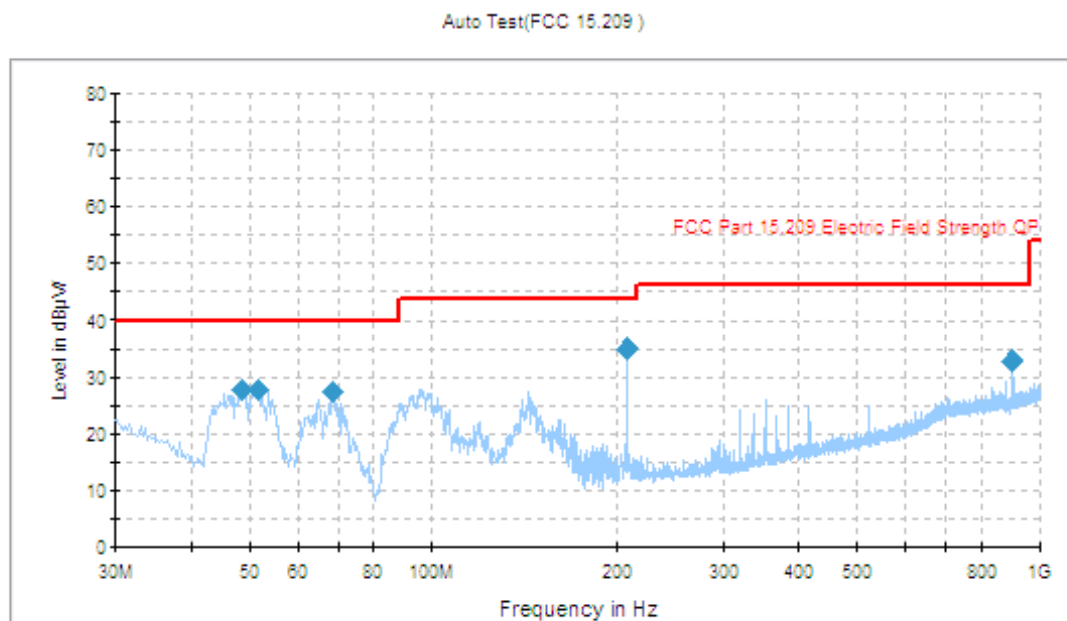
**Below 1 GHz:***Test Mode: Adapter Charging & Transmitting***802.11b**

Auto Test(FCC 15.209 )



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Test Antenna		Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
207.995000	39.7	100.0	V	325.0	-14.2	43.5	3.8
48.835500	28.3	100.0	V	51.0	-16.8	40.0	11.7
52.495000	26.9	100.0	V	342.0	-17.6	40.0	13.1
71.705000	26.0	101.0	V	173.0	-18.3	40.0	14
98.787500	28.5	300.0	H	191.0	-14.9	43.5	15
902.095000	29.9	168.0	V	258.0	-0.8	46.0	16.1

Note: \* within measurement uncertainty.

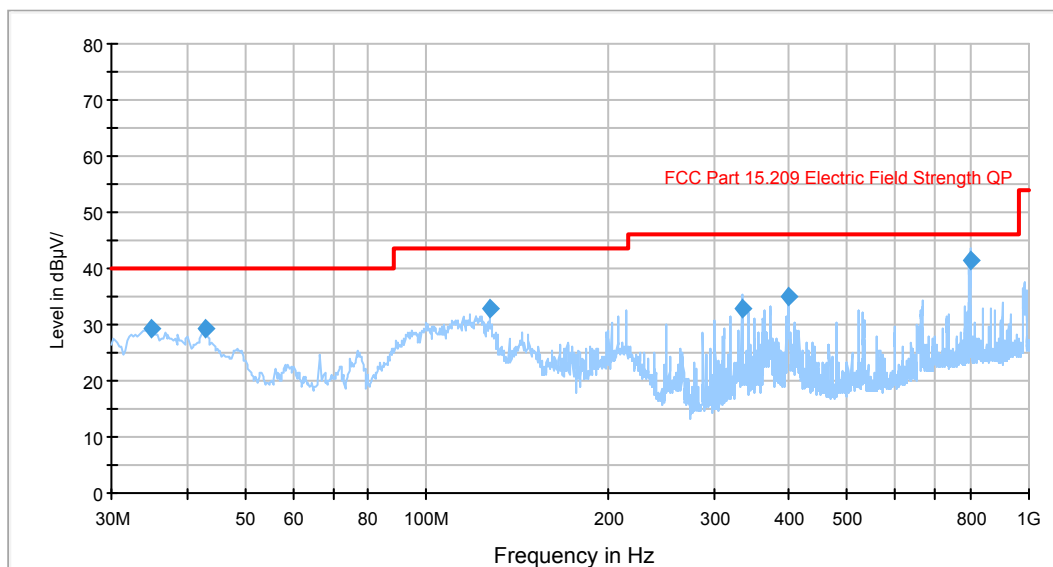
**802.11g**

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Test Antenna		Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
48.854789	27.0	110.0	V	151.0	-16.8	40.0	13.0
53.874120	27.1	100.0	V	42.0	-17.6	40.0	12.9
69.521423	26.2	104.0	V	103.0	-18.3	40.0	13.8
210.547851	34.2	259.0	H	0.0	-14.9	43.5	9.3
902.095000	32.1	157.0	V	200.0	-0.8	46.0	13.9

Test Mode: Laptop Charging & Transmitting

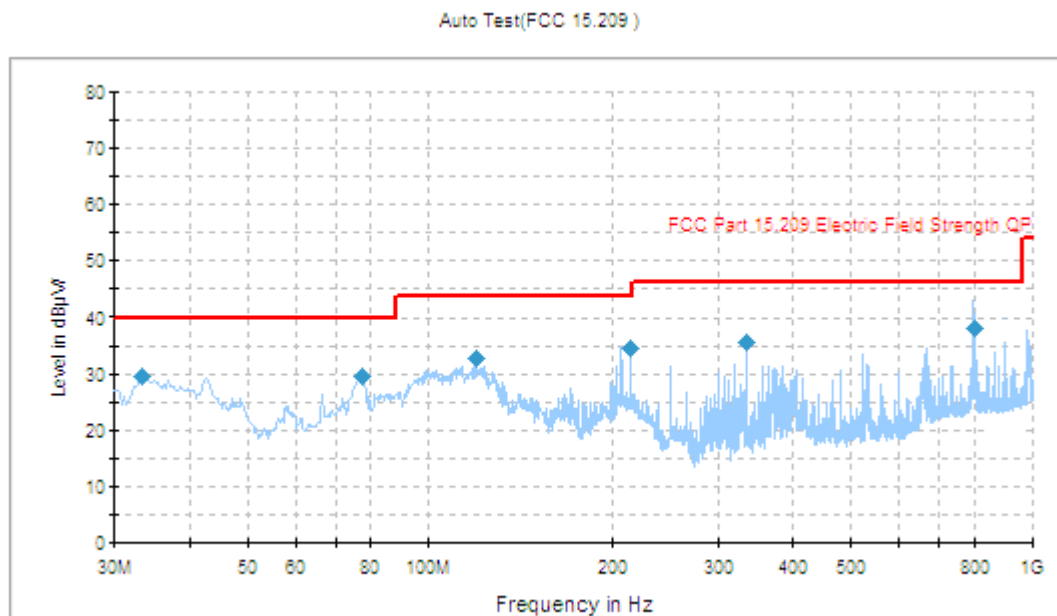
802.11b

Auto Test(FCC 15.209 )



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Test Antenna		Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
797.994500	41.5	101.0	V	25.0	-1.9	46.0	4.5
35.055750	29.4	100.0	V	207.0	-8.8	40.0	10.6
127.935000	32.8	101.0	V	233.0	-12.5	43.5	10.7
42.951250	29.2	132.0	V	26.0	-8.9	40.0	10.8
399.590250	35.1	116.0	H	25.0	-10.0	46.0	10.9
333.444500	33.0	100.0	H	4.0	-11.5	46.0	13



**802.11g**

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna		Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Height (cm)				
797.863000	38.3	201.0	H	213.0	-1.9	46.0	7.7
214.371000	34.8	156.0	H	332.0	-10.1	43.5	8.7
77.544000	29.8	100.0	V	43.0	-8.2	40.0	10.2
33.447250	29.7	100.0	V	209.0	-7.8	40.0	10.3
120.343500	32.8	100.0	V	315.0	-10.3	43.5	10.7
315.421400	34.2	100.0	H	45.0	-11.2	46.0	11.8

**Above 1 GHz:**

802.11b:

Indicated		Detector (PK/Ave)	Table Angle Degree	Test Antenna		Correction Factor			FCC Part 15.247/15.209		
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)											
4824	30.79	Ave	160	1.2	H	36.2	4.30	26.80	44.49	54	9.51
4824	28.88	Ave	180	1.2	V	35.2	4.30	26.80	41.58	54	12.42
1147.62	37.30	Ave	20	1.5	H	25.2	2.02	26.49	38.03	54	15.97
4824	44.30	PK	180	1.2	H	36.2	4.30	26.80	58.00	74	16.00
1147.62	37.11	Ave	20	1.2	V	24.5	2.02	26.49	37.14	54	16.86
4824	42.93	PK	180	1.2	V	35.2	4.30	26.80	55.63	74	18.37
1147.62	50.11	PK	20	1.2	V	24.5	2.02	26.49	50.14	74	23.86
1147.62	49.14	PK	20	1.5	H	25.2	2.02	26.49	49.87	74	24.13
Middle Channel (2437 MHz)											
4874	30.75	Ave	180	1.2	H	35.5	4.36	26.78	43.83	54	10.17
4874	30.25	Ave	180	1.2	V	34.8	4.36	26.78	42.63	54	11.37
4874	45.18	PK	180	1.2	H	35.8	4.36	26.78	58.56	74	15.44
4874	44.02	PK	180	1.2	V	34.8	4.36	26.78	56.4	74	17.6
1274.21	31.85	Ave	45	1.4	H	25.8	2.06	26.52	33.19	54	20.81
1274.21	31.74	Ave	30	1.0	V	25.2	2.06	26.52	32.48	54	21.52
1274.21	46.55	PK	45	1.4	H	25.8	2.06	26.52	47.89	74	26.11
1274.21	44.53	PK	30	1.0	V	25.2	2.06	26.52	45.27	74	28.73
High Channel (2462 MHz)											
4924	33.05	Ave	20	1.8	H	36.6	4.40	26.75	47.30	54	6.70
4924	31.34	Ave	0	1.2	V	35.4	4.40	26.75	44.39	54	9.61
4924	46.8	PK	20	1.8	H	36.6	4.40	26.75	61.05	74	12.95
4924	45.23	PK	0	1.2	V	35.4	4.40	26.75	58.28	74	15.72
1452.32	33.61	Ave	0	1.2	H	26.3	2.24	26.58	35.57	54	18.43
1452.32	30.67	Ave	30	1.7	V	26.0	2.24	26.58	32.33	54	21.67
1452.32	48.35	PK	0	1.2	H	26.3	2.24	26.58	50.31	74	23.69
1452.32	44.72	PK	30	1.7	V	26.0	2.24	26.58	46.38	74	27.62

**Suprious Emission in Restricted Band:**

Indicated		Detector (PK/Ave)	Table Angle Degree	Test Antenna		Correction Factor			FCC Part 15.247/15.209/15.205		
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2487.04	33.53	Ave	10	1.1	H	30.5	3.00	26.84	40.19	54	13.81
2387.45	33.47	Ave	30	1.9	V	30.2	3.00	26.84	39.83	54	14.17
2487.04	32.35	Ave	0	1.6	V	30.4	3.00	26.84	38.91	54	15.09
2387.45	31.93	Ave	20	2.0	H	30.3	3.00	26.84	38.39	54	15.61
2487.04	47.20	PK	10	1.1	H	30.5	3.00	26.84	53.86	74	20.14
2387.45	47.35	PK	30	1.9	V	30.2	3.00	26.84	53.71	74	20.29
2487.04	45.91	PK	0	1.6	V	30.4	3.00	26.84	52.47	74	21.53
2387.45	45.26	PK	20	2.0	H	30.3	3.00	26.84	51.72	74	22.28

802.11g :

Indicated		Detector (PK/Ave)	Table Angle Degree	Test Antenna		Correction Factor			FCC Part 15.247/15.209		
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)											
4824	31.55	Ave	100	1.5	H	36.2	4.30	26.80	45.25	54	8.75
4824	32.35	Ave	150	1.2	V	35.2	4.30	26.80	45.05	54	8.95
1250.40	38.87	Ave	12	1	H	26.2	2.02	26.64	40.45	54	13.55
4824	41.44	PK	100	1.5	H	36.2	4.30	26.80	55.14	74	18.86
1250.40	34.86	Ave	35	1.2	V	24.8	2.02	26.64	35.04	54	18.96
4824	41.26	PK	150	1.2	V	35.2	4.30	26.80	53.96	74	20.04
1250.40	46.85	PK	12	1	H	26.2	2.02	26.64	48.43	74	25.57
1250.40	46.54	PK	35	1.2	V	24.8	2.02	26.64	46.72	74	27.28
Middle Channel (2437 MHz)											
4874	36.97	Ave	185	1.1	V	35.5	4.36	26.78	50.05	54	3.95
4874	32.65	Ave	175	1	H	36.3	4.36	26.78	46.53	54	7.47
1258.64	36.87	Ave	30	1	H	26.3	2.06	26.52	38.71	54	15.29
4874	45.46	PK	185	1.2	V	35.5	4.36	26.78	58.54	74	15.46
4874	43.78	PK	175	1.2	H	36.3	4.36	26.78	57.66	74	16.34
1258.64	34.15	Ave	45	0	V	25.2	2.06	26.52	34.89	54	19.11
1258.64	47.46	PK	30	1.2	H	26.3	2.06	26.52	49.3	74	24.7
1258.64	45.24	PK	45	1	V	25.2	2.06	26.52	45.98	74	28.02
High Channel (2462 MHz)											
4924	30.52	Ave	0	1	H	36.6	4.40	26.75	44.77	54	9.23
4924	30.68	Ave	20	1	V	35.4	4.40	26.75	43.73	54	10.27
1557.65	34.57	Ave	30	1	H	26.9	2.24	26.58	37.13	54	16.87
4924	40.45	PK	0	1.2	H	36.6	4.40	26.75	54.7	74	19.3
4924	41.64	PK	20	1.2	V	35.4	4.40	26.75	54.69	74	19.31
1557.65	31.97	Ave	0	1	V	26.5	2.24	26.58	34.13	54	19.87
1557.65	44.62	PK	30	1.2	H	26.9	2.24	26.58	47.18	74	26.82
1557.65	41.64	PK	0	1	V	26.5	2.24	26.58	43.8	74	30.2

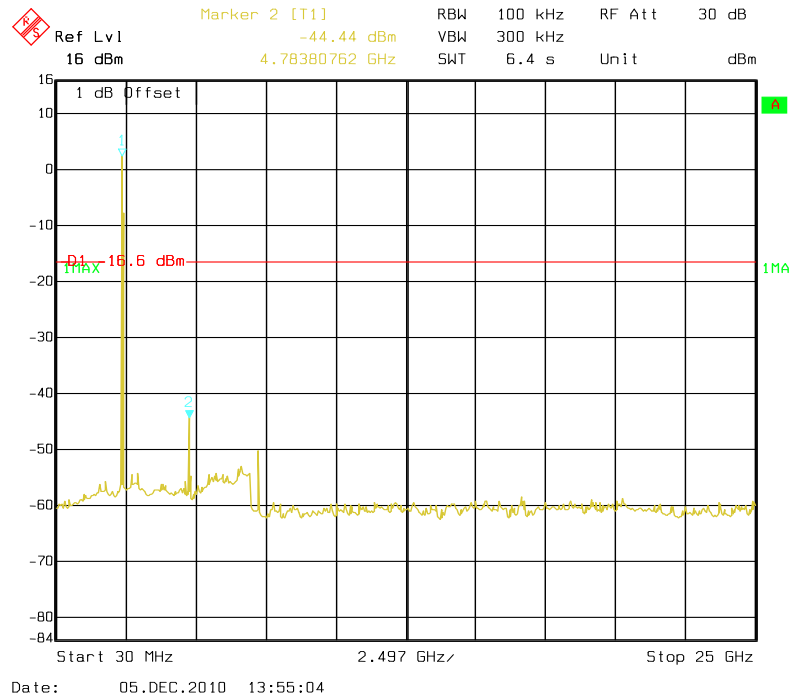
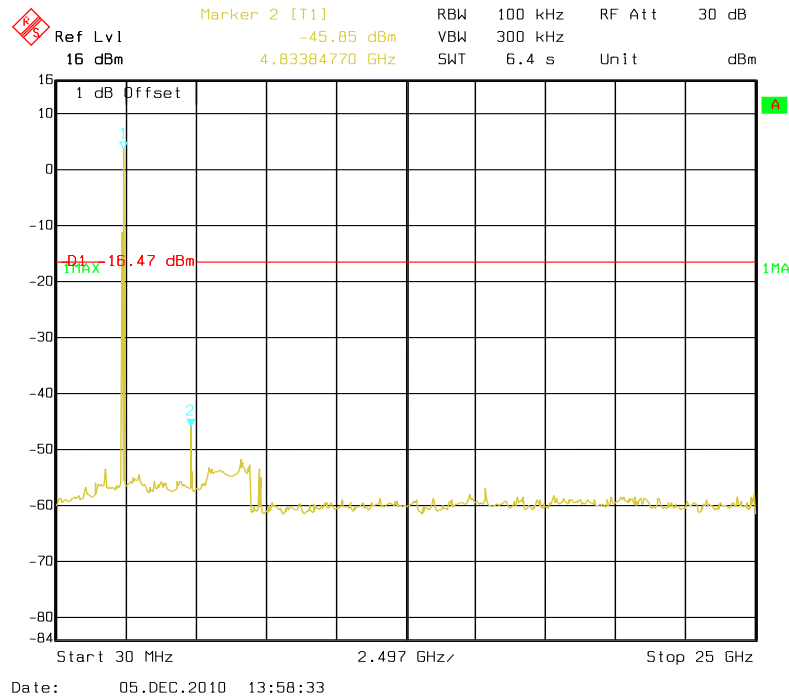
**Suprious Emission in Restricted Band:**

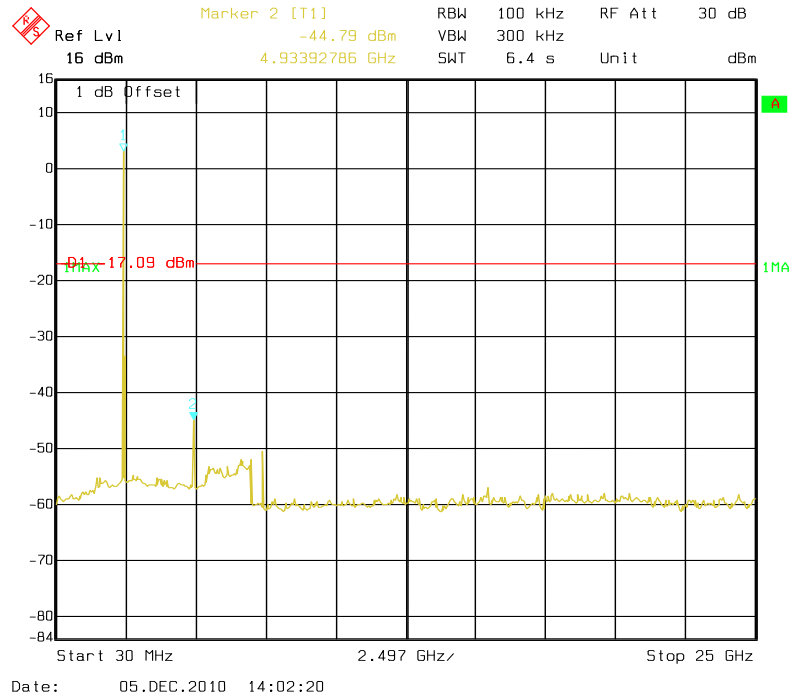
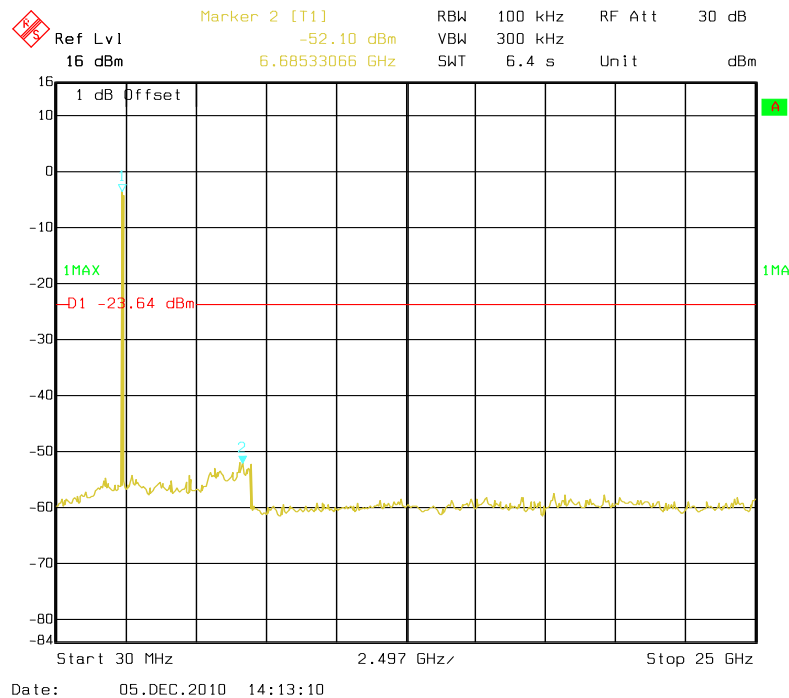
Indicated		Detector (PK/Ave)	Table Angle Degree	Test Antenna		Correction Factor			FCC Part 15.247/15.209/15.205		
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2483.65	35.78	Ave	320	1.1	H	30.5	3.00	26.84	42.44	54	11.56
2389.78	34.58	Ave	10	1.0	V	30.2	3.00	26.84	40.94	54	13.06
2483.65	33.65	Ave	120	1.0	V	30.4	3.00	26.84	40.21	54	13.79
2389.78	32.12	Ave	0	1.1	H	30.3	3.00	26.84	38.58	54	15.42
2483.65	46.45	PK	320	1.1	H	30.5	3.00	26.84	53.11	74	20.89
2389.78	45.97	PK	10	1.2	V	30.2	3.00	26.84	52.33	74	21.67
2483.65	44.97	PK	120	1.2	V	30.4	3.00	26.84	51.53	74	22.47
2389.78	42.45	PK	0	1.2	H	30.3	3.00	26.84	48.91	74	25.09

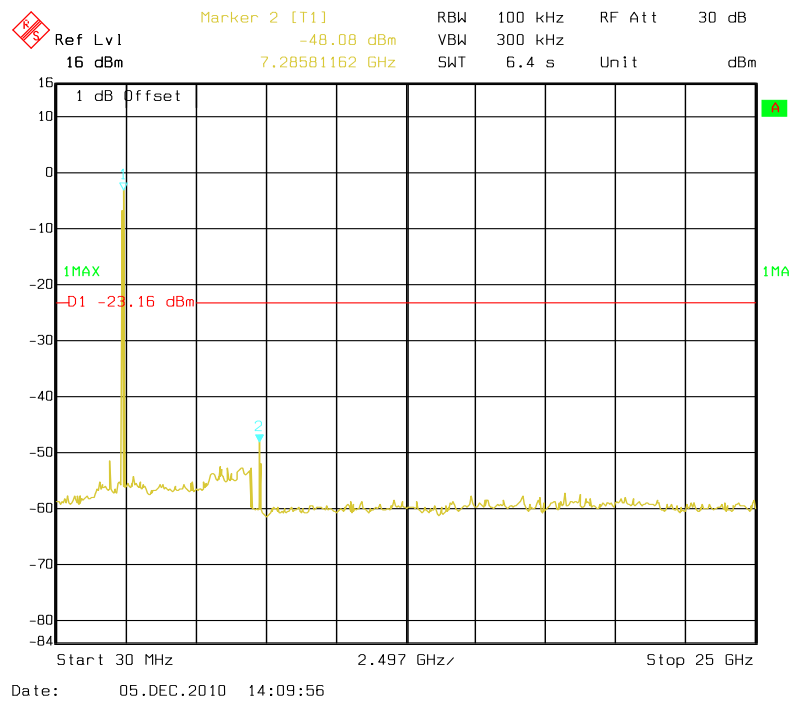
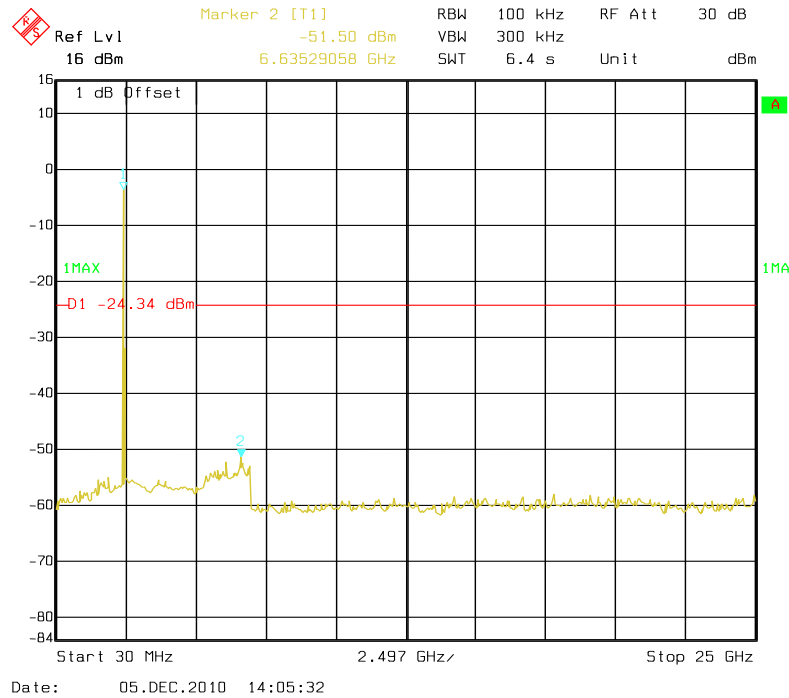
**Antenna Port Conducted Spurious Emissions**

Channel Frequency (MHz)	Data Rate (Mbps)	Limit (dBc)	Ref. Plot	Result
<b>802.11g mode</b>				
2412	1	20	PLOT1	PASS
2437	1	20	PLOT2	PASS
2462	1	20	PLOT3	PASS
<b>802.11g mode</b>				
2412	6	20	PLOT4	PASS
2437	6	20	PLOT5	PASS
2462	6	20	PLOT6	PASS

Please refer to the following plots.

**PLOT1- 802.11b Low Channel****PLOT2- 802.11b Middle Channel**

**PLOT3- 802.11b High Channel****PLOT4- 802.11g Low Channel**

**PLOT5- 802.11g Middle Channel****PLOT6- 802.11g High Channel**

## FCC §15.247(a) (2) – 6 dB BANDWIDTH TESTING

### Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

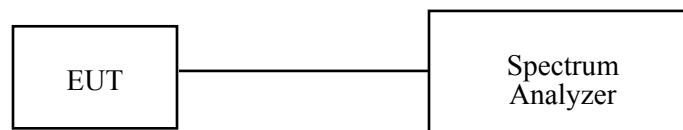
### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-24	2011-11-23

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



### Test Data

#### Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56%
ATM Pressure:	100.0kPa

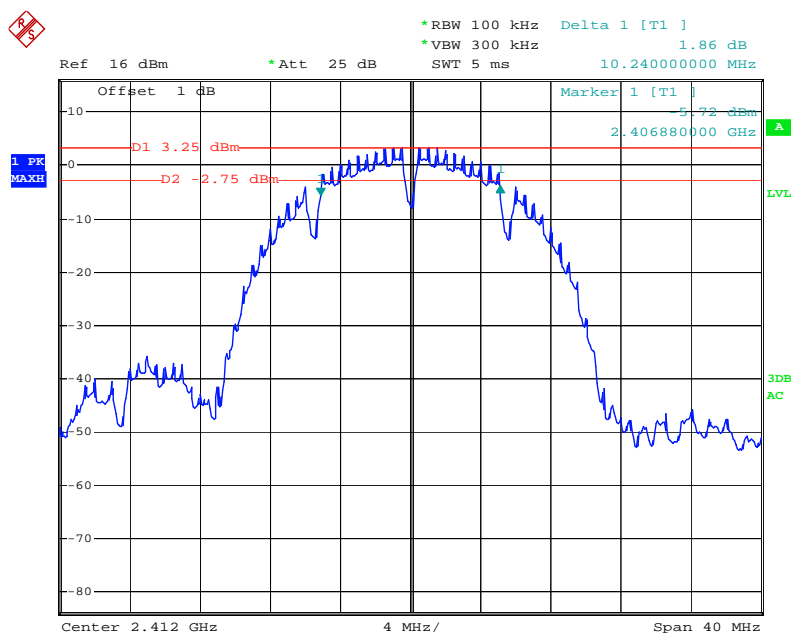
*The testing was performed by Kvass Yang on 2010-11-30.*



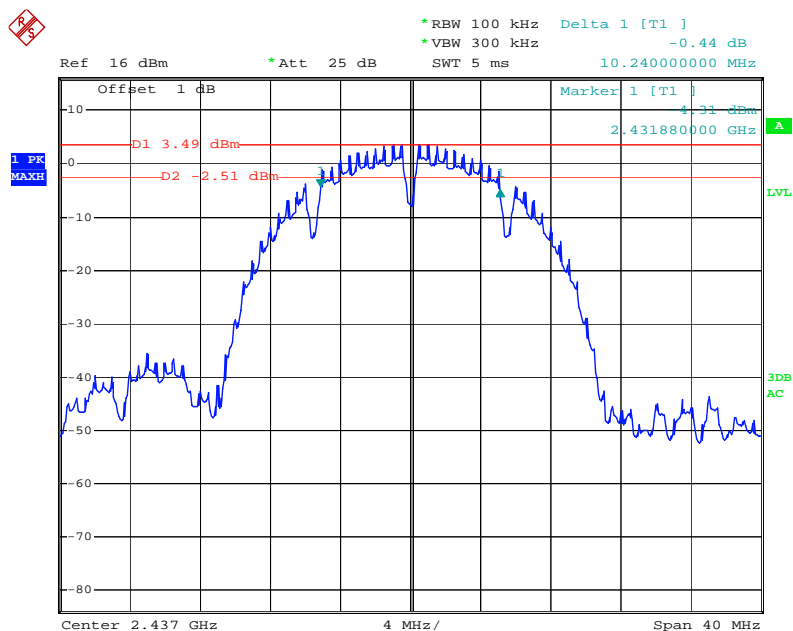
Please refer to the following tables and plots.

Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
<b>802.11b mode</b>			
Low	2412	10.24	>500
Middle	2437	10.24	>500
High	2462	10.24	>500
<b>802.11g mode</b>			
Low	2412	16.64	>500
Middle	2437	16.64	>500
High	2462	16.56	>500

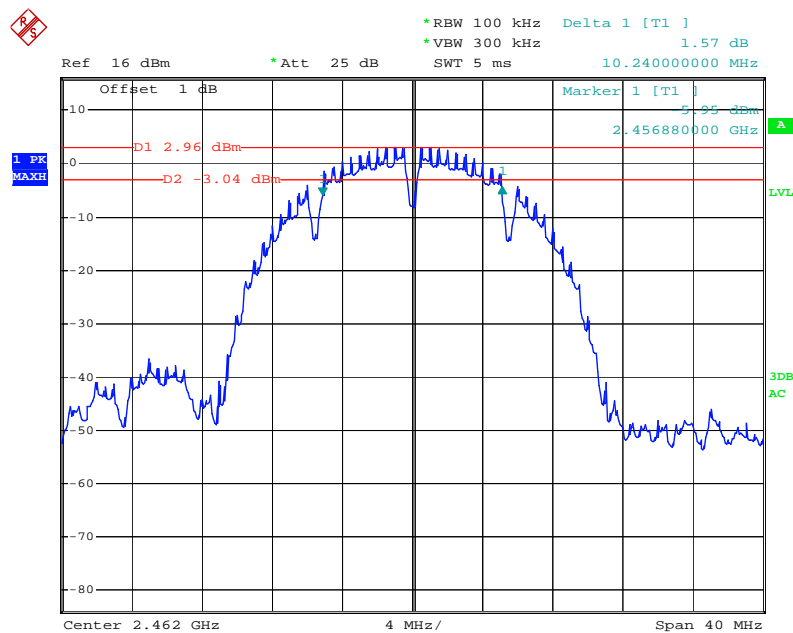
## 802.11b Low Channel



Date: 30.NOV.2010 10:09:18

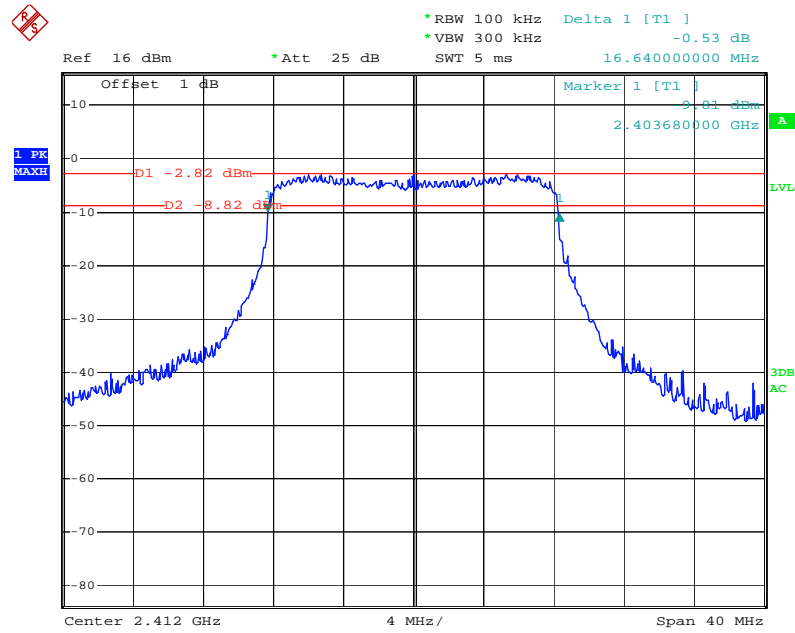
**802.11b Middle Channel**

Date: 30.NOV.2010 10:13:36

**802.11b High Channel**

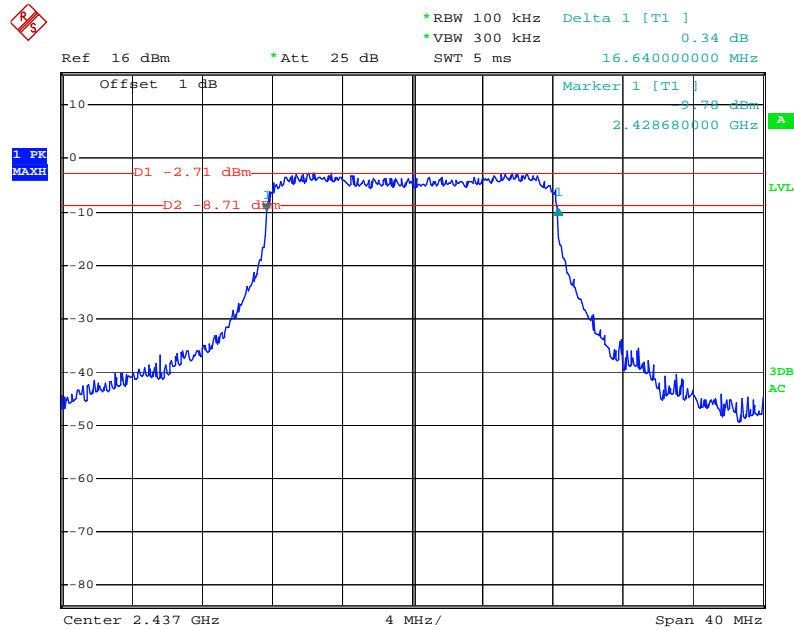
Date: 30.NOV.2010 14:53:31

## 802.11g Low Channel



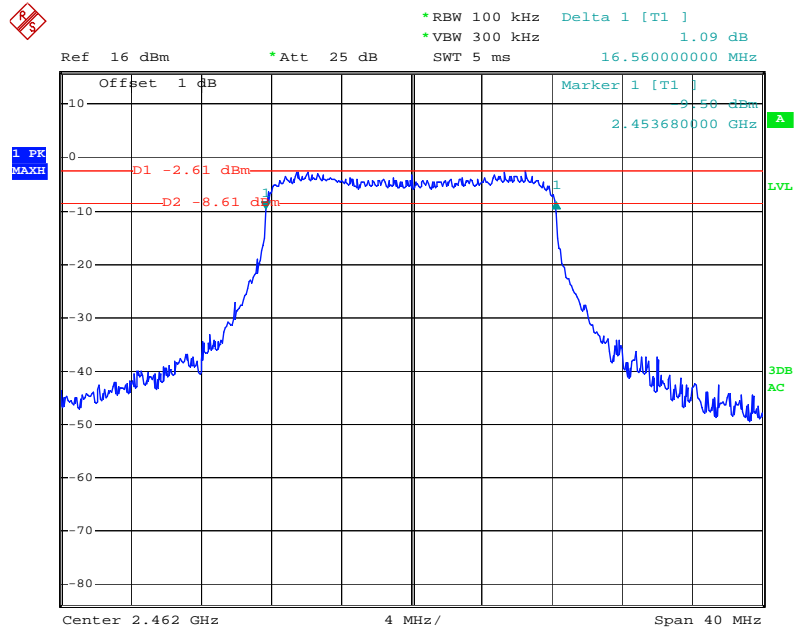
Date: 30.NOV.2010 14:23:58

## 802.11g Middle Channel



Date: 30.NOV.2010 14:04:39

## 802.11g High Channel



Date: 30.NOV.2010 13:46:45

## FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

### Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

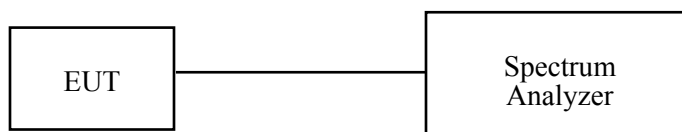
### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-24	2011-11-23

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3. Add a correction factor to the display.



### Test Data

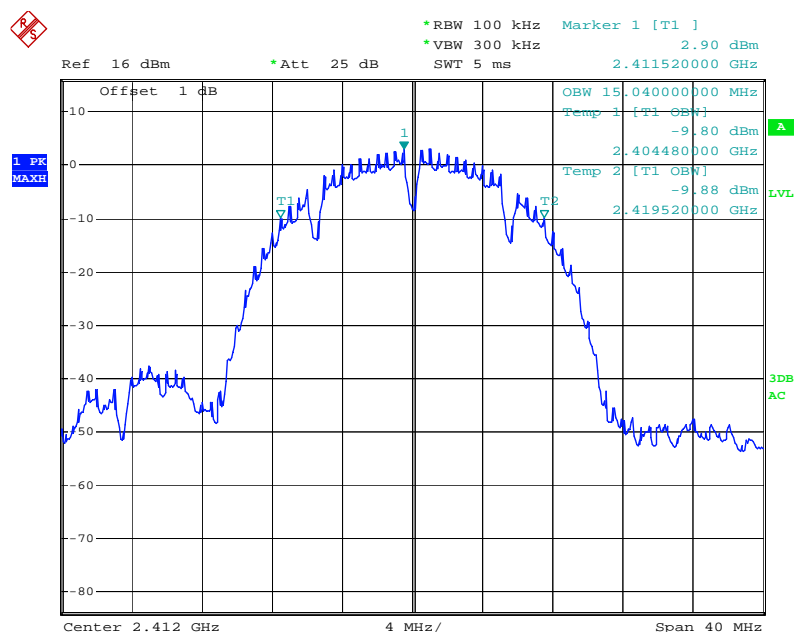
#### Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

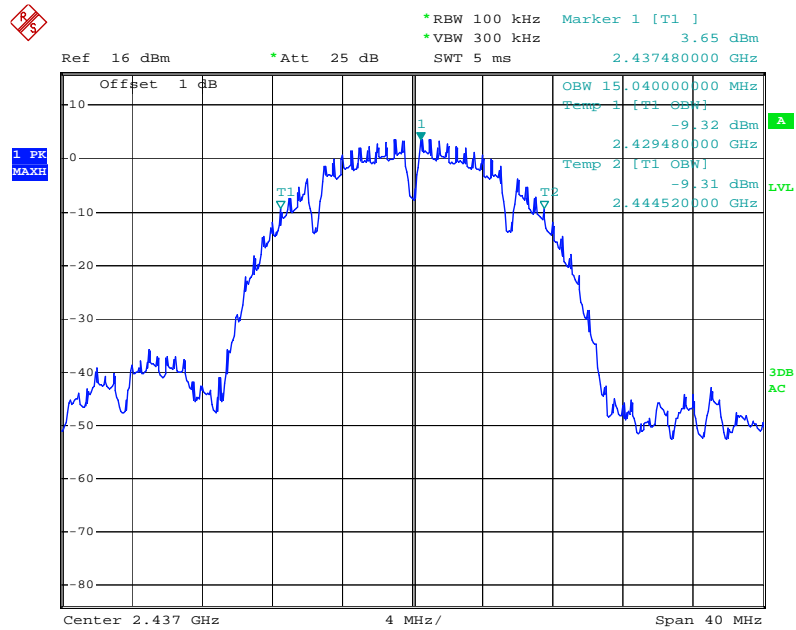
*The testing was performed by Kvass Yang on 2010-11-30 and 2010-12-01.*

*Test Mode: Transmitting*

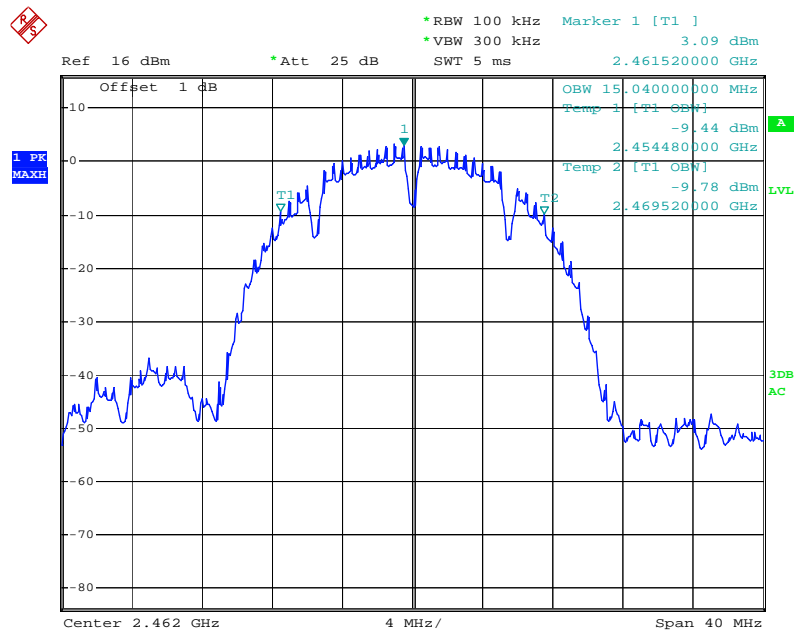
Channel	Frequency (MHz)	Data Rate (Mbps)	Output Power (dBm)	Limit (dBm)
<b>802.11b mode</b>				
Low	2412	1	13.51	30
Middle	2437	1	13.37	30
High	2462	1	12.93	30
<b>802.11g mode</b>				
Low	2412	6	11.04	30
Middle	2437	6	11.18	30
High	2462	6	10.90	30

**802.11b Mode:****99% Occupied Bandwith, Low Channel**

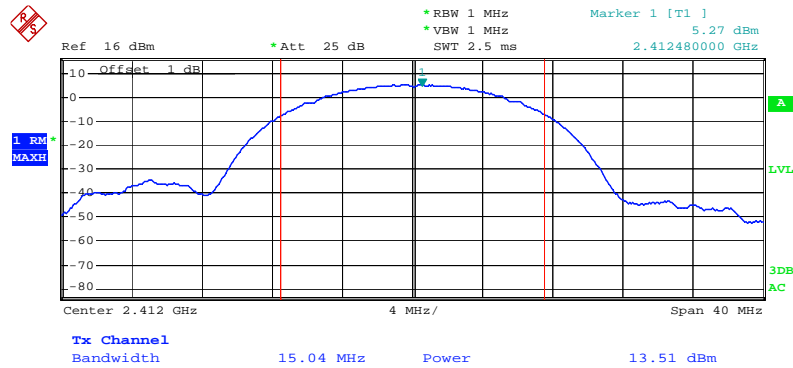
Date: 30.NOV.2010 09:37:34

**99% Occupied Bandwidth, Middle Channel**

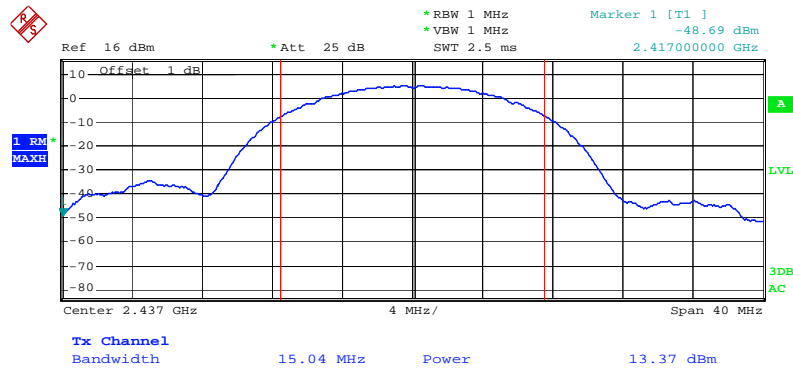
Date: 30.NOV.2010 10:11:09

**99% Occupied Bandwidth, High Channel**

Date: 30.NOV.2010 14:50:55

**802.11b RF Output Power, Low Channel**

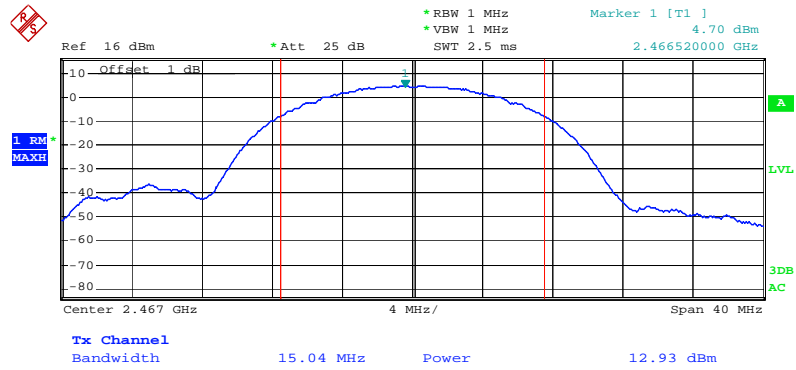
Date: 1.DEC.2010 10:53:44

**802.11b RF Output Power, Middle Channel**

Date: 1.DEC.2010 10:54:15

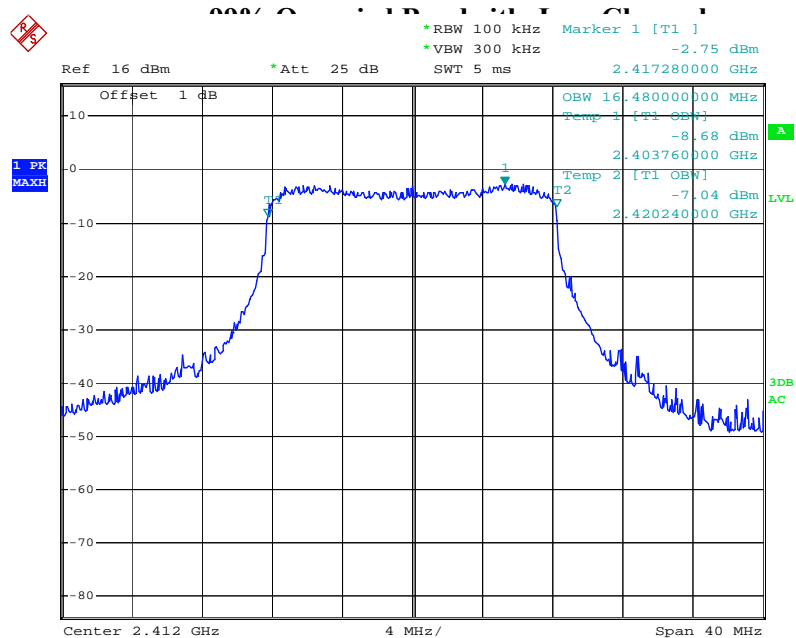


## 802.11b RF Output Power, High Channel

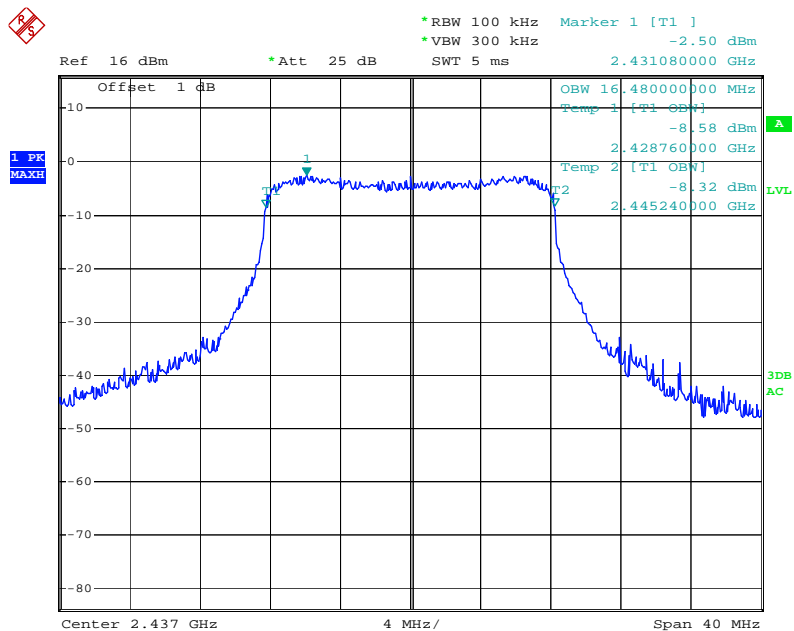


Date: 1.DEC.2010 11:04:02

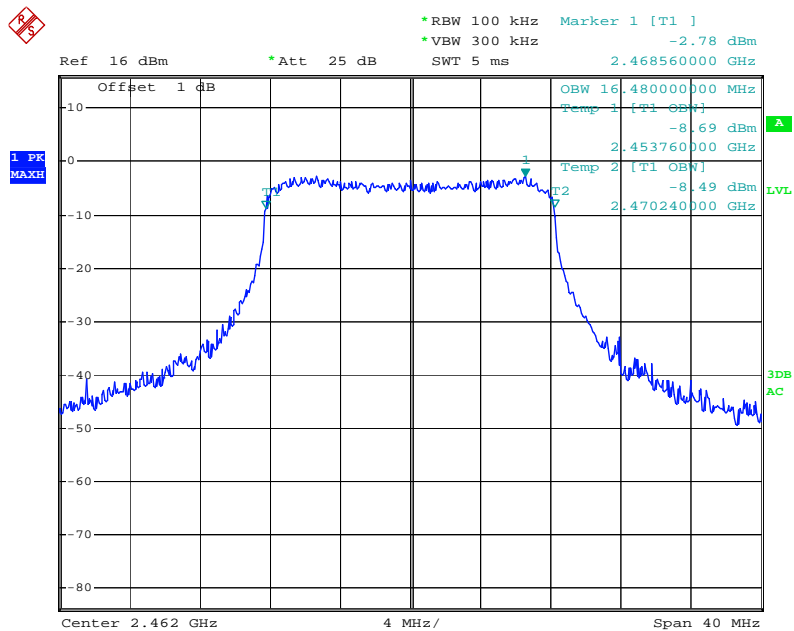
## 802.11g Mode:



Date: 30.NOV.2010 14:20:31

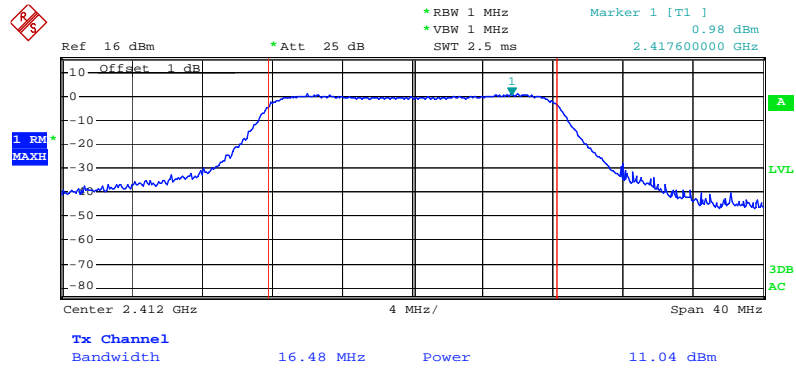
**99% Occupied Bandwidth, Middle Channel**

Date: 30.NOV.2010 14:01:57

**99% Occupied Bandwidth, High Channel**

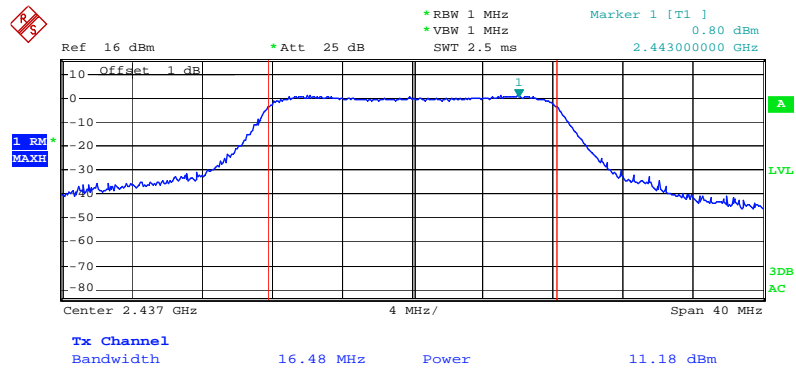
Date: 30.NOV.2010 13:44:42

## 802.11g RF Output Power, Low Channel

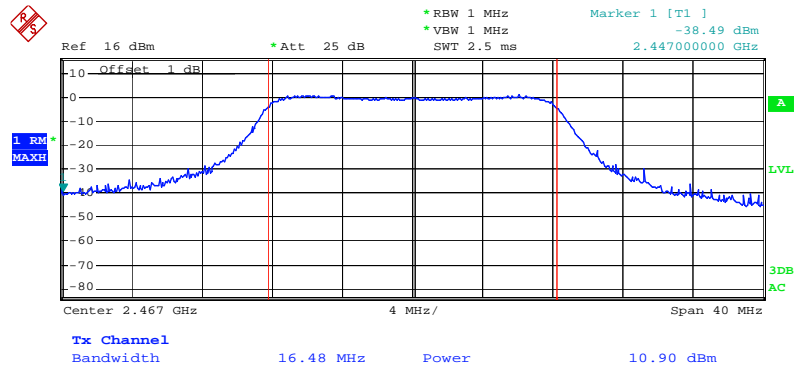


Date: 1.DEC.2010 10:58:02

## 802.11g RF Output Power, Middle Channel



Date: 1.DEC.2010 10:57:07

**802.11g RF Output Power, High Channel**

Date: 1.DEC.2010 10:56:23

## FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-24	2011-11-23

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 1 MHz and VBW of spectrum analyzer to 1 MHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

### Test Data

#### Environmental Conditions

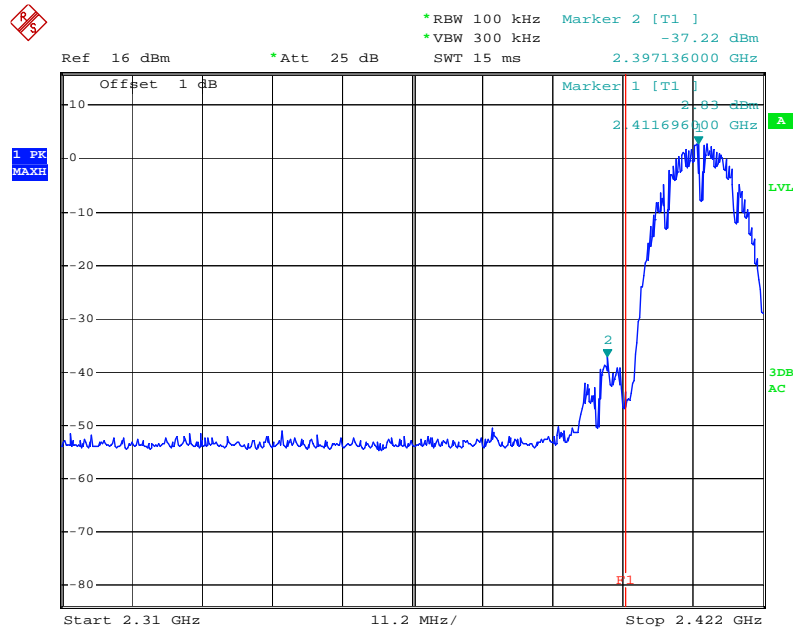
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

*The testing was performed by Kvass Yang on 2010-11-30.*

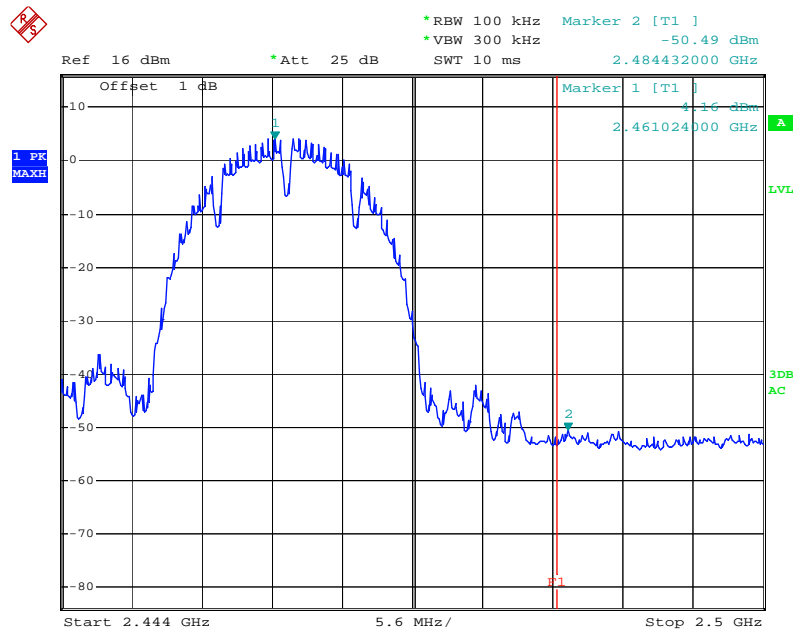
**Test Result:** *Compliance.*

Frequency (MHz)	Delta Peak to band emission (dBc)	Limit (dBc)
802.11b mode		
2398.54	40.05	20
2486.96	54.65	20
802.11g mode		
2399.66	33.75	20
2483.96	44.68	20

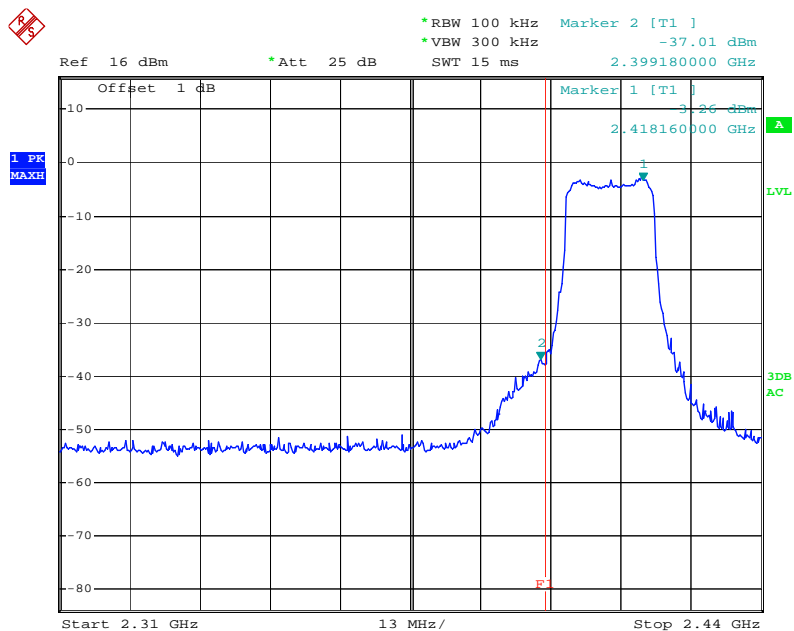
Please refer to following plots.

**802.11b: Band Edge, Left Side**

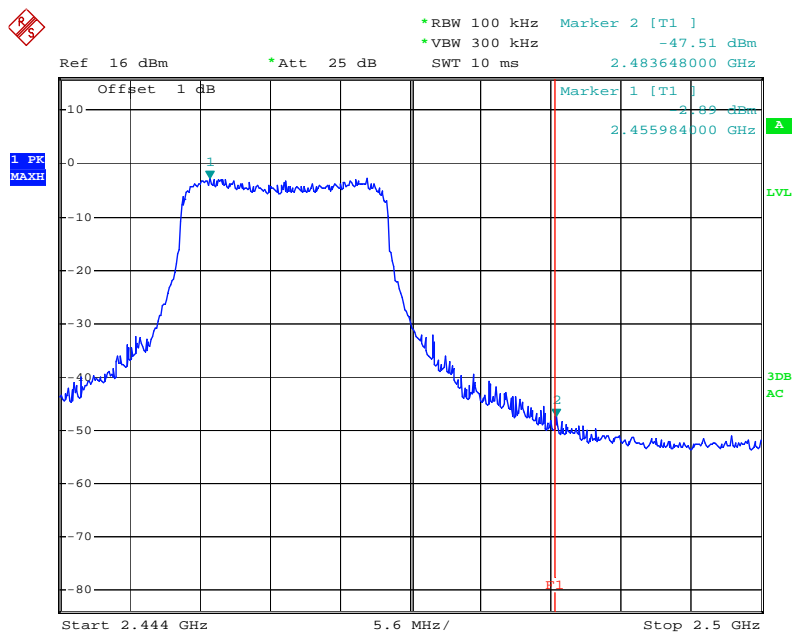
Date: 30.NOV.2010 09:41:04

**802.11b: Band Edge, Right Side**

Date: 8.DEC.2010 09:36:52

**802.11g: Band Edge, Left Side**

Date: 30.NOV.2010 14:25:00

**802.11g: Band Edge, Right Side**

Date: 30.NOV.2010 13:58:43



## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-24	2011-11-23

\* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1.5MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value. (DTS)
4. Repeat above procedures until all frequencies measured were complete.

### Test Data

#### Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

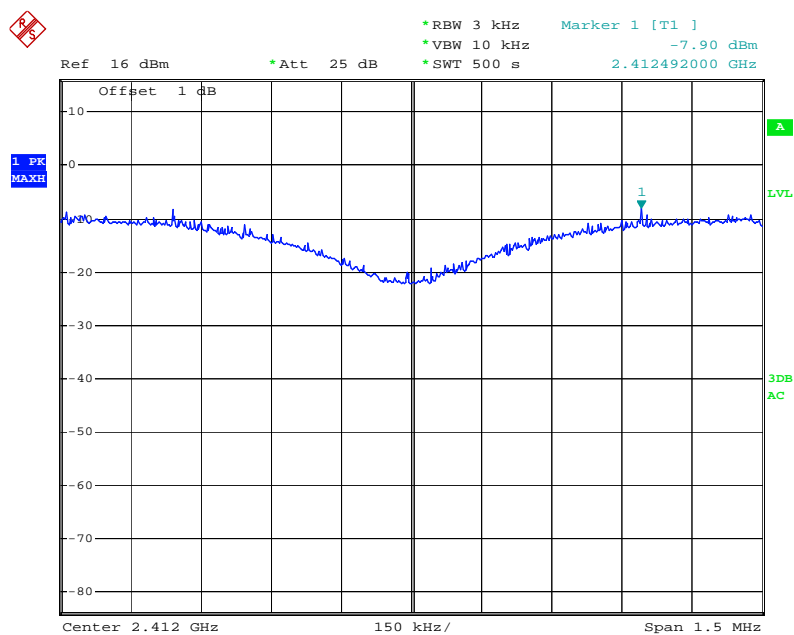
*The testing was performed by Kvass Yang on 2010-11-30.*

*Test Mode: Transmitting*

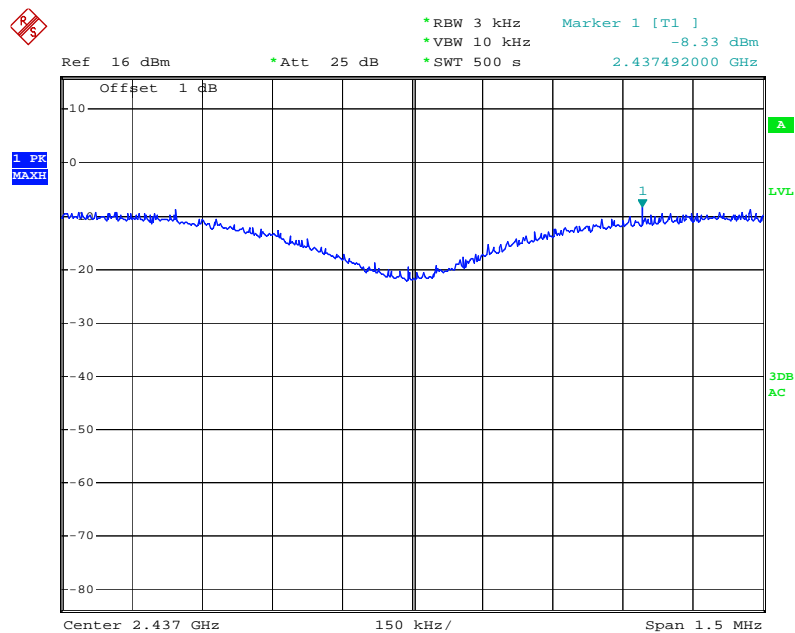
**Test Result:** *Compliance.*

Channel	Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
802.11b mode					
Low	2412	1	-7.90	8	Pass
Middle	2437	1	-8.33	8	Pass
High	2462	1	-8.96	8	Pass
802.11g mode					
Low	2412	6	-11.51	8	Pass
Middle	2437	6	-10.58	8	Pass
High	2462	6	-11.71	8	Pass

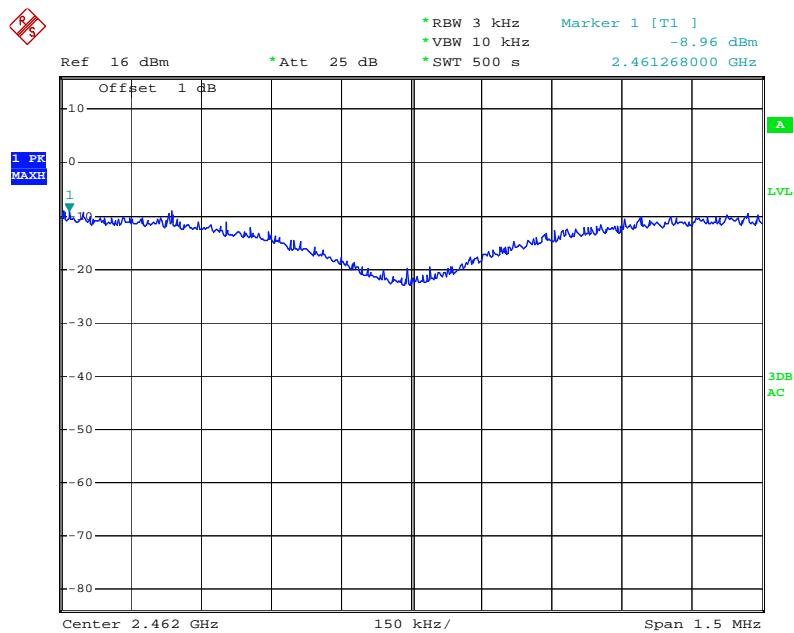
### Power Spectral Density, 802.11b Low Channel



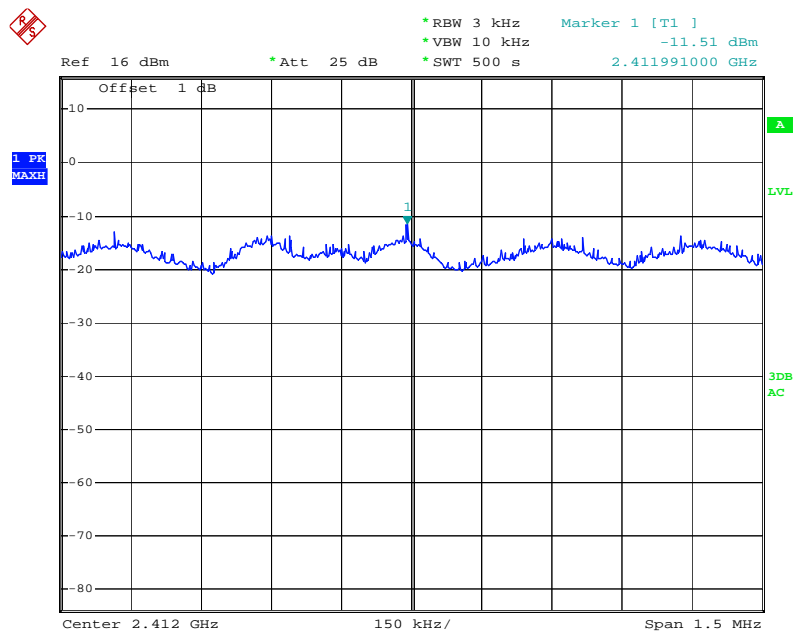
Date: 30.NOV.2010 10:07:52

**Power Spectral Density, 802.11b Middle Channel**

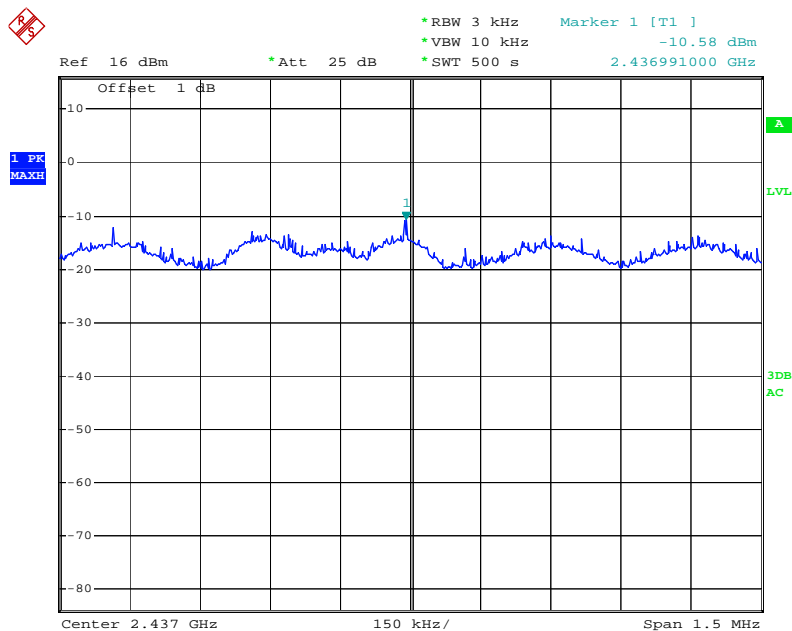
Date: 30.NOV.2010 10:37:41

**Power Spectral Density, 802.11b High Channel**

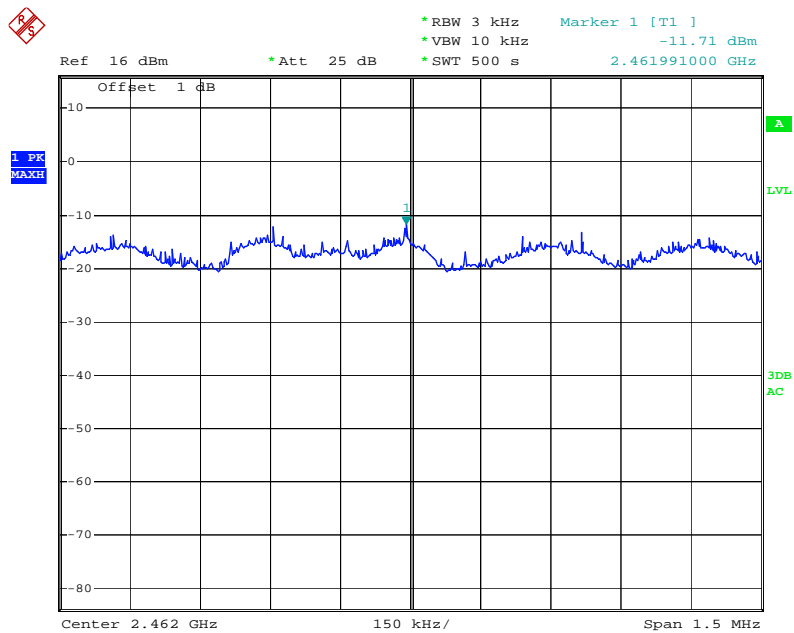
Date: 30.NOV.2010 15:02:20

**Power Spectral Density, 802.11g Low Channel**

Date: 30.NOV.2010 14:48:55

**Power Spectral Density, 802.11g Middle Channel**

Date: 30.NOV.2010 14:18:18

**Power Spectral Density, 802.11g High Channel**

Date: 30.NOV.2010 13:55:48

**\*\*\*\*\* END OF REPORT \*\*\*\*\***