



**FCC CFR47 PART 15 SUBPART C
CERTIFICATION
TEST REPORT**

FOR

802.11b/g RADIO MODULE

MODEL NUMBER: RSVLD-0608

FCC ID: B94RSVLD0608

REPORT NUMBER: 07U11057-1

ISSUE DATE: JULY 24, 2007

Prepared for
**HEWLETT PACKARD COMPANY
3000 HANOVER STREET
PALO ALTO, CA 94304 USA**

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
---	07/24/07	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HEWLETT PACKARD COMPANY
3000 HANOVER STREET
PALO ALTO, CA 94304, USA

EUT DESCRIPTION: 802.11b/g RADIO MODULE

MODEL: RSVLD-0608

SERIAL NUMBER: BCM94326USBGP

DATE TESTED: MAY 31-JUNE 04, 2007

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

WILLIAM ZHUANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Radiated Emission, Above 2000 MHz	+/- 4.3 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11b/g Radio Module.

The radio module is manufactured by HONG FU JIN Precision Industry (Shenzhen) Co., Ltd. Foxconn Network System Group.

5.2. DESCRIPTION OF CLASS II CHANGE

The changes filed under this application include:

1. The existing PCA antennas are being removed and an additional RF connector was added (pads already existed on radio for the RF connector.)
2. Replaced J1 with U.FL connector. The two RF connectors will be cabled to a new antenna board with two button antenna.
3. Added 2 holes where antennas were.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes Broadcom BCM9Fractal 64 and Tyco dual button antennas each with a maximum gain of 2.8dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed in the host support equipment during testing was LALA-REL-4-80-1

The test utility software used during testing was wl_tools.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at 2412 MHz for 11b mode, 2462 MHz for 11g mode

The worst-case data rate for this channel is determined to be 1Mb/s, for b mode, 6 Mb/s for 11g based on previous experience with WLAN product design architectures.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	HP	Pavilion zv6000	CND52904S1	DoC
AC Adapter	HP	PA-1121-12HD	5502603201	DoC

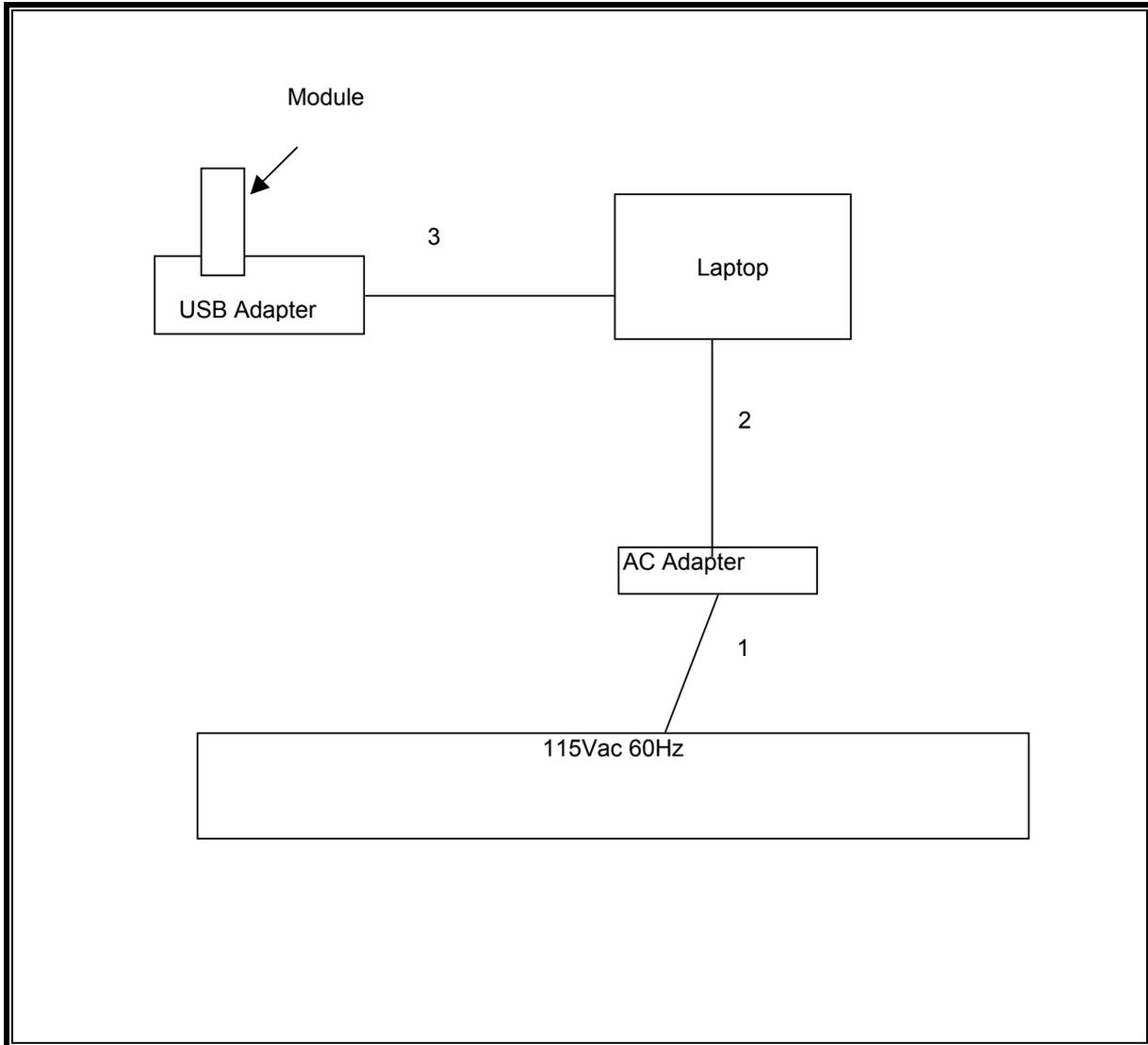
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	2m	N/A
3	USB	1	UB 115V	Un-shielded	2m	Conncted to Laptop

TEST SETUP

The EUT is connected to host laptop computer via a USB adapter / extension board during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Quasi-Peak Adaptor	Agilent / HP	85650A	3145A01654	1/21/2008
SA RF Section, 1.5 GHz	Agilent / HP	85680B	2814A04227	1/7/2008
SA Display Section 2	Agilent / HP	85662A	2816A16696	4/7/2008
Spectrum Analyzer 9KHz ~ 26.5 GHz	Agilent / HP	E4407B	MY41444592	10/6/2007
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00931	8/1/2007
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	4/15/2008
Peak / Average Power Sensor	Agilent	E9327A	US40440755	12/2/2007
Peak Power Meter	Agilent / HP	E4416A	GB41291160	12/2/2007
2.4 Reject Filter	Micro Tronics	BRM53702	1	N/A
Preamp 30-1000MHz	Sonoma	310N	185623	1/20/08

7. LIMITS AND RESULTS

7.1. RADIATED EMISSIONS

7.1.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

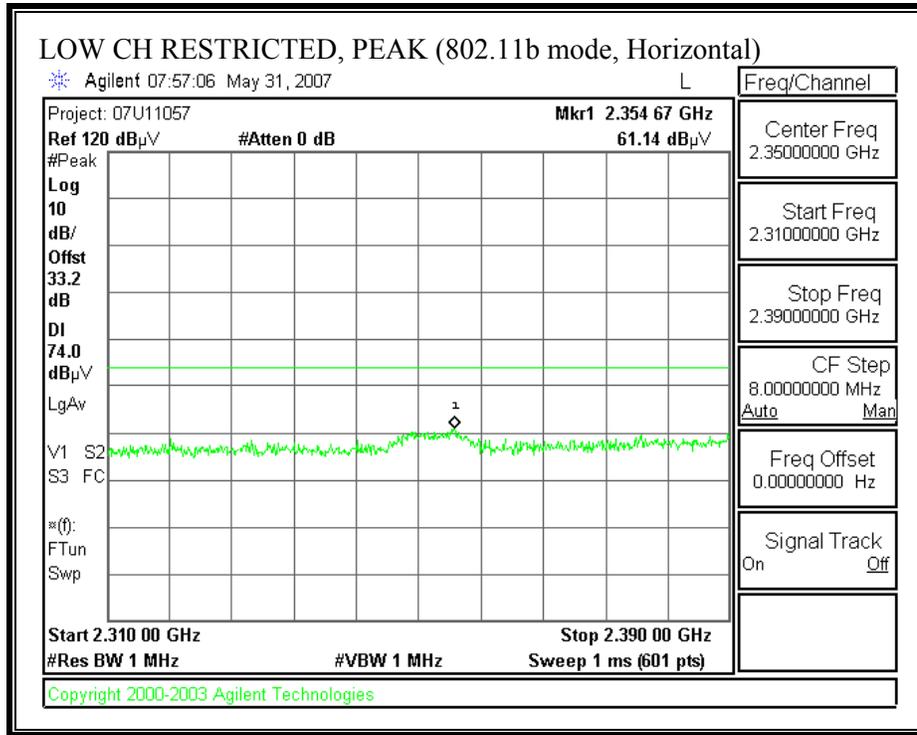
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

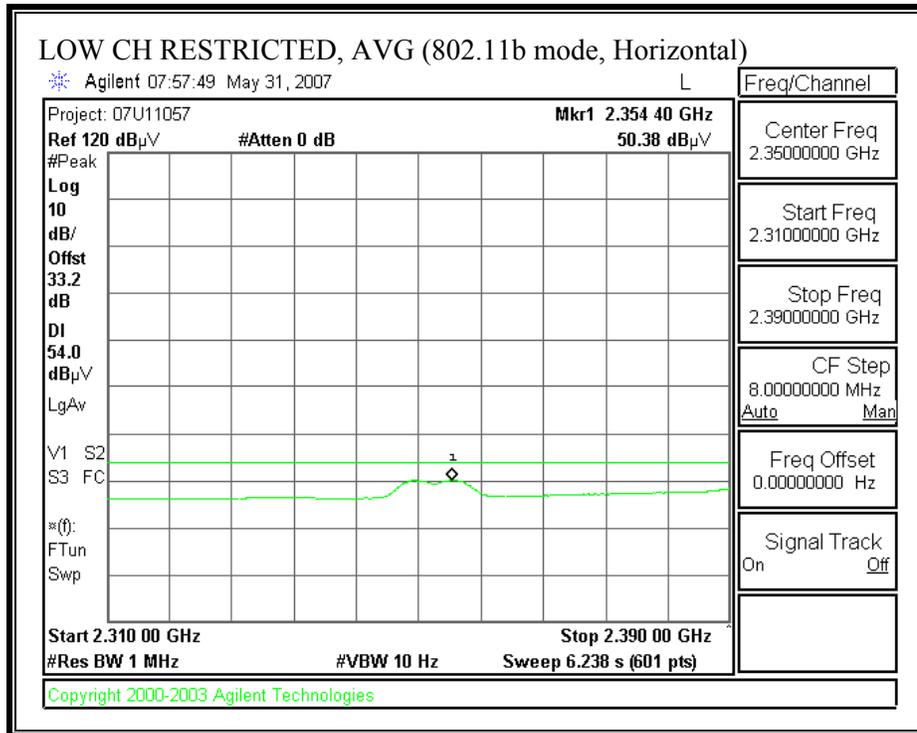
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

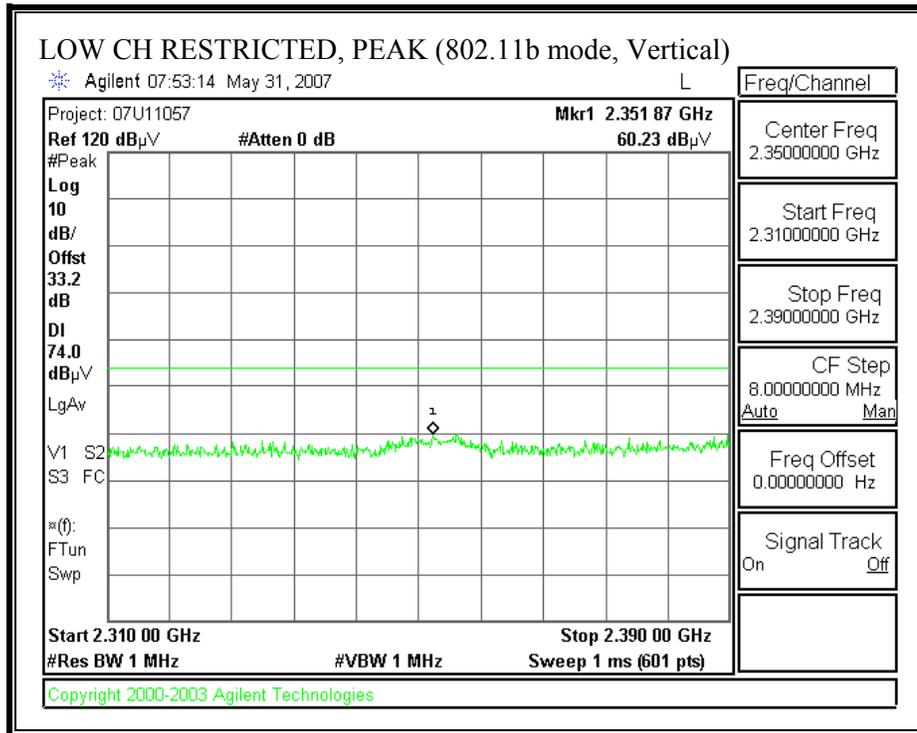
7.1.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND

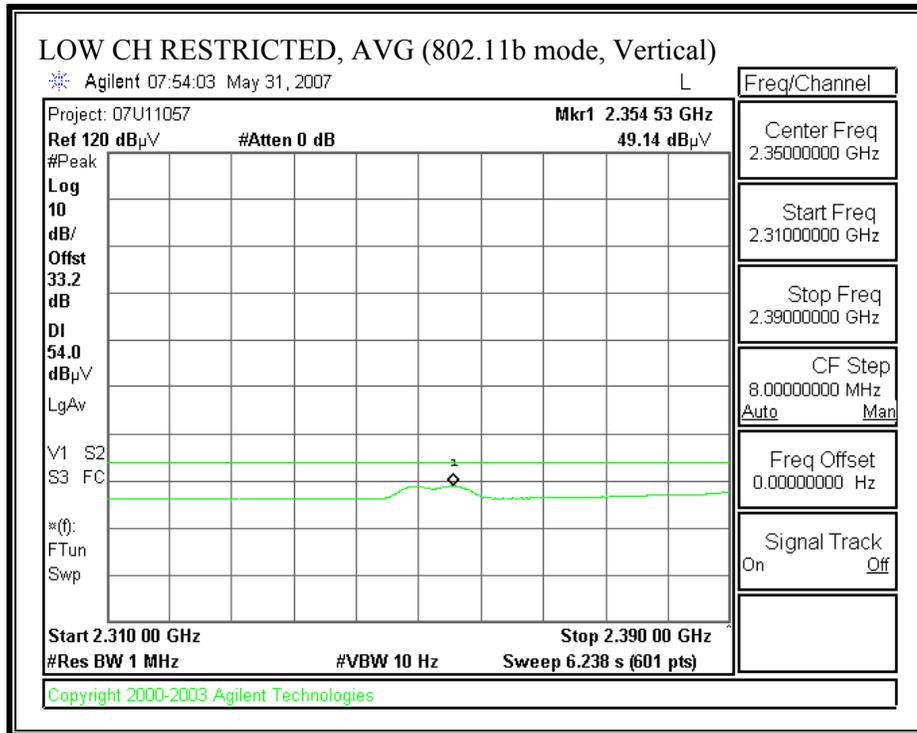
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



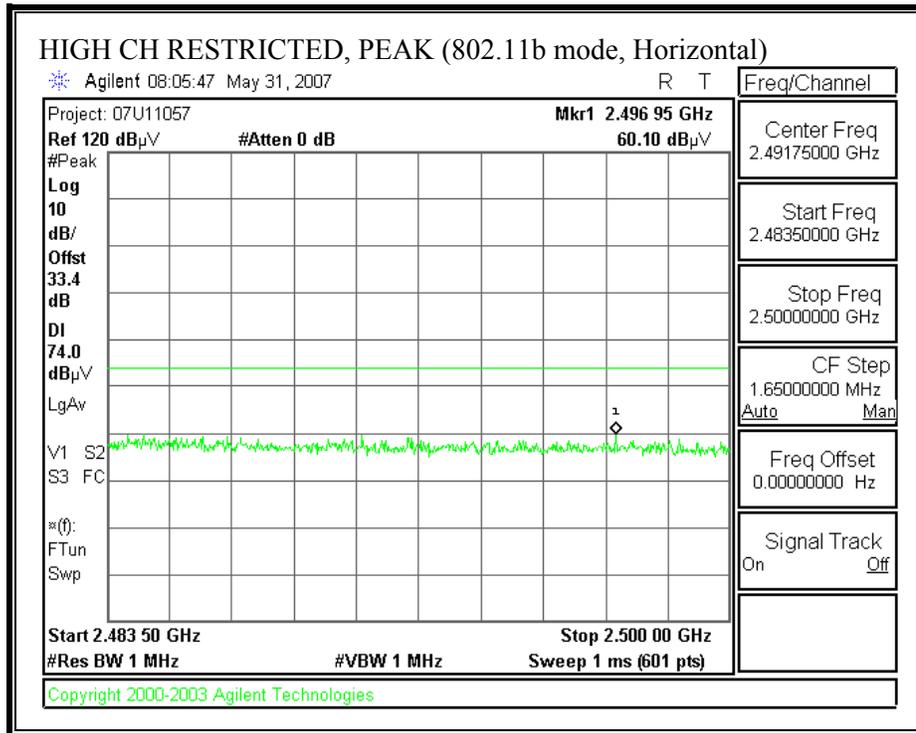


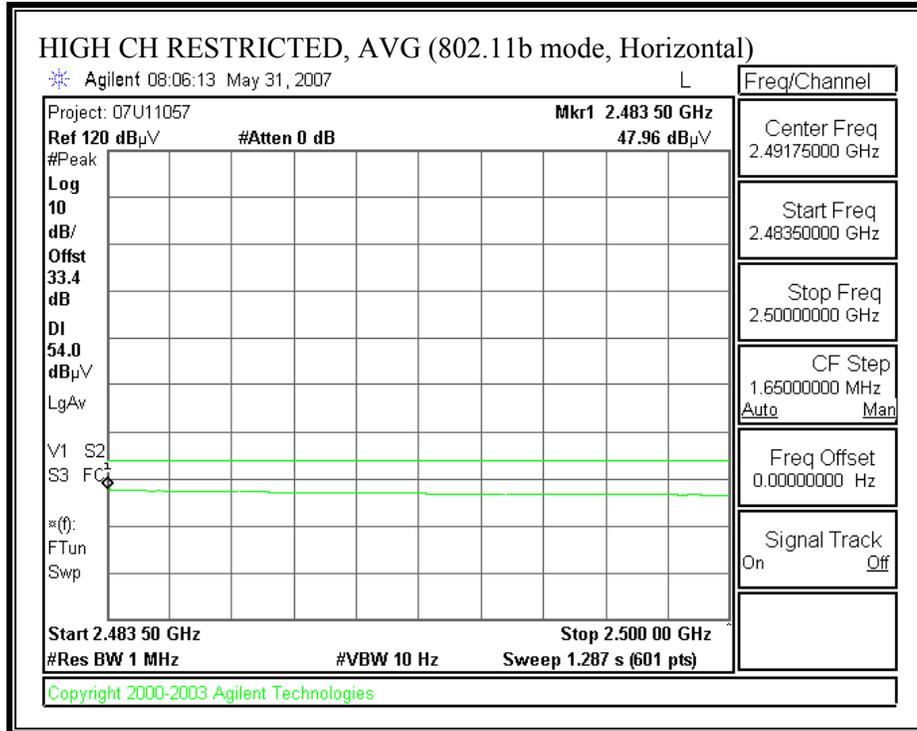
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



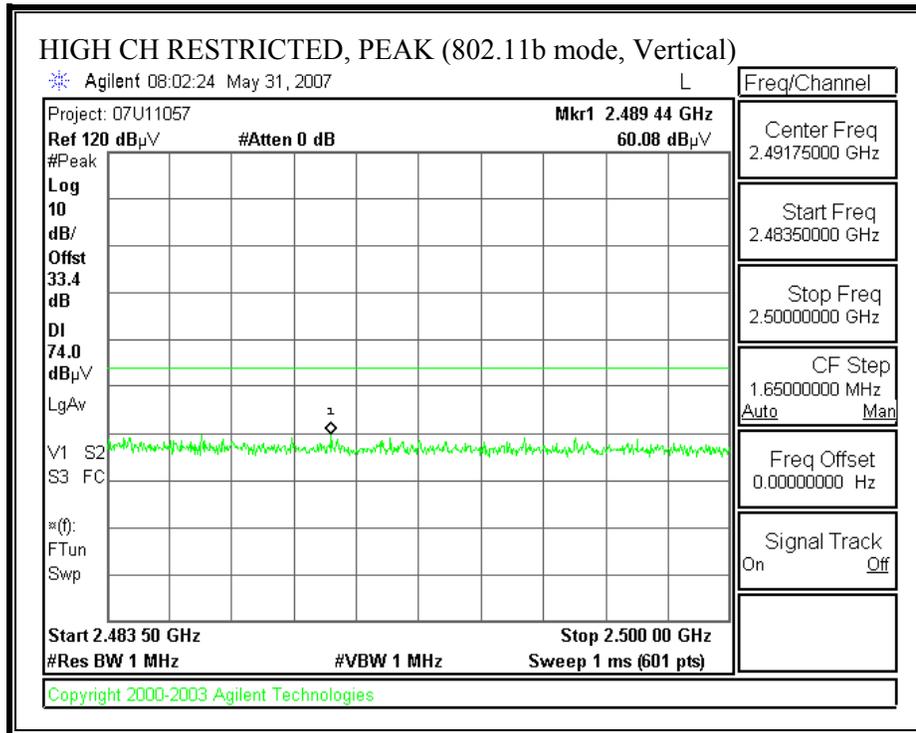


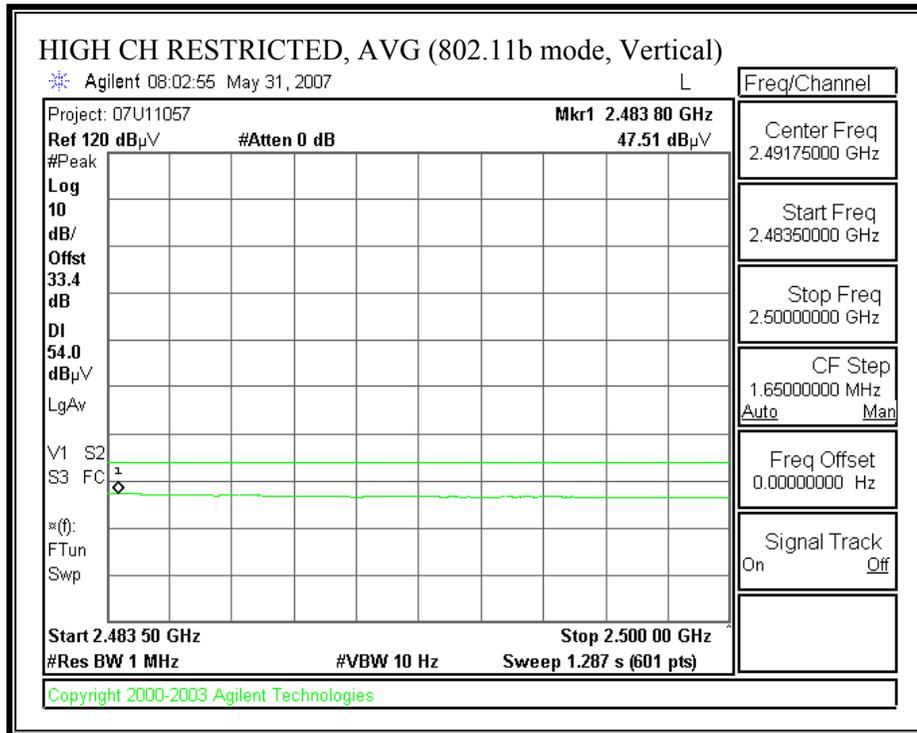
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

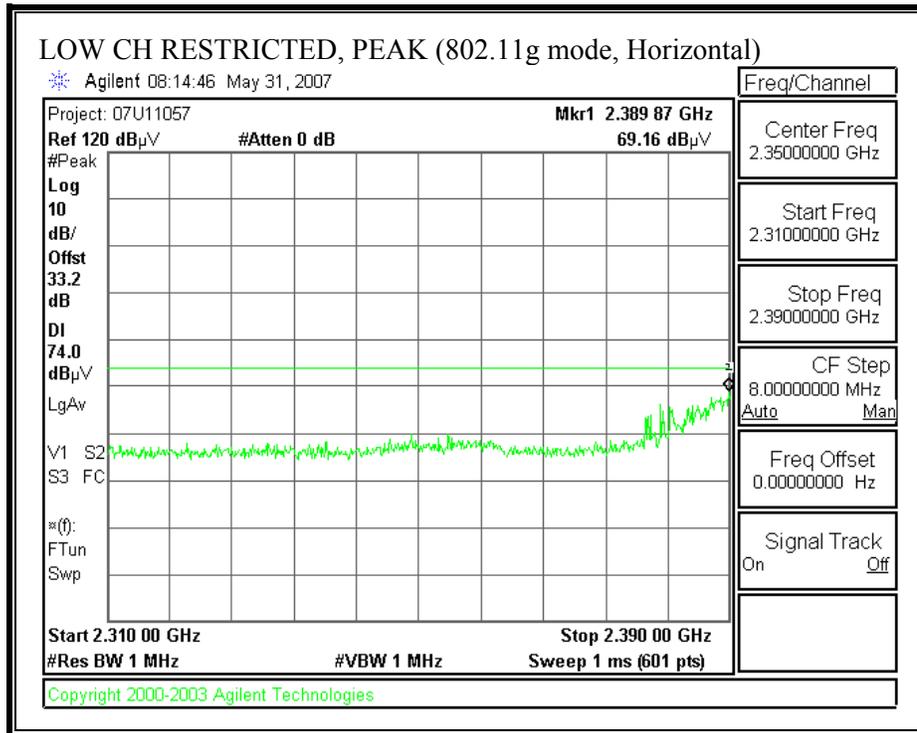


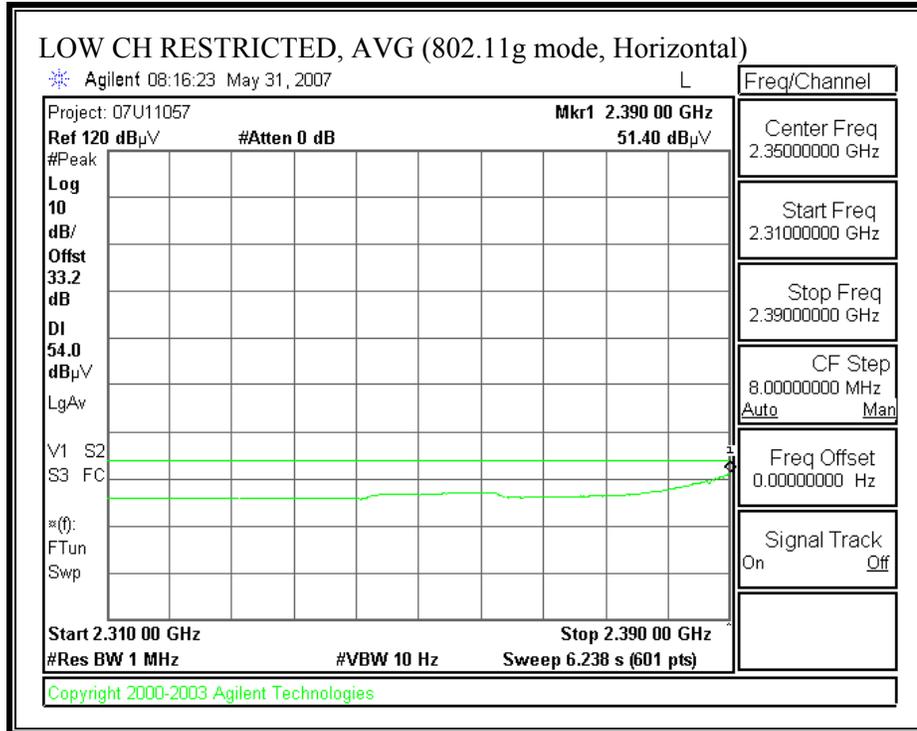


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

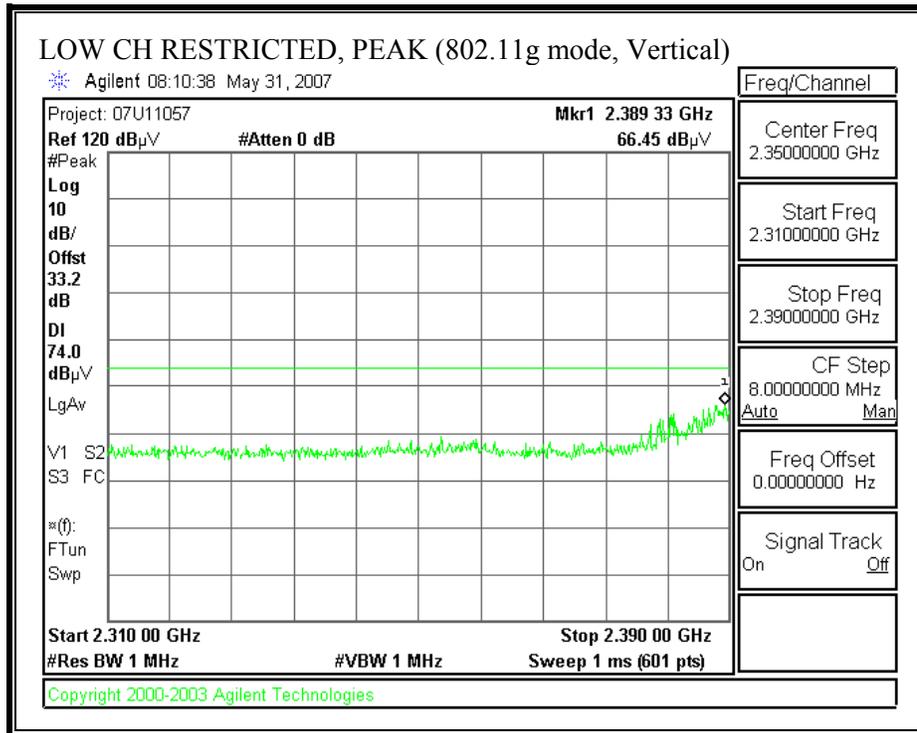
05/31/07 High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber																	
Test Engr: William Zhuang Project #: 07U11057 Company: Hewlett-Packard EUT Descrip.: 802.11bg USB Radio Module EUT M/N: RSVLD-0806 Test Target: FCC 15.247 Mode Oper: Tx On, b Mode																	
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim		Average Field Strength Limit		Pk Lim		Peak Field Strength Limit		Avg Mar		Margin vs. Average Limit	
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim		Peak Field Strength Limit		Avg Mar		Margin vs. Average Limit		Pk Mar		Margin vs. Peak Limit	
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Lim		Average Field Strength Limit		Pk Lim		Peak Field Strength Limit		Avg Mar		Margin vs. Average Limit	
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Lim		Peak Field Strength Limit		Avg Mar		Margin vs. Average Limit		Pk Mar		Margin vs. Peak Limit	
CL	Cable Loss		HPF	High Pass Filter		Avg Lim		Average Field Strength Limit		Pk Lim		Peak Field Strength Limit		Avg Mar		Margin vs. Average Limit	
f	Dist	Read Pk	Read Avg	AF	CL	Amp	D Corr	Fitr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes		
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)		
b Mode, Low Ch. Output Power = 19dBm																	
4.824	3.0	38.6	26.9	33.3	6.9	-36.5	0.0	0.6	42.9	31.2	74.0	54.0	-31.1	-22.8	V		
7.236	3.0	43.5	33.0	34.9	8.4	-36.2	0.0	0.6	51.2	40.7	74.0	54.0	-22.8	-13.3	V		
9.648	3.0	43.6	36.4	36.7	9.7	-37.0	0.0	0.8	53.9	46.7	74.0	54.0	-20.1	-7.3	V		
4.824	3.0	38.8	27.0	33.3	6.9	-36.5	0.0	0.6	43.1	31.3	74.0	54.0	-30.9	-22.7	H		
7.236	3.0	43.9	33.4	34.9	8.4	-36.2	0.0	0.6	51.6	41.1	74.0	54.0	-22.4	-12.9	H		
9.648	3.0	40.1	31.9	36.7	9.7	-37.0	0.0	0.8	50.4	42.2	74.0	54.0	-23.6	-11.8	H		
b Mode, Mid Ch. Output Power = 19 dBm																	
4.874	3.0	38.1	26.4	33.4	6.9	-36.5	0.0	0.6	42.5	30.8	74.0	54.0	-31.5	-23.2	V		
7.311	3.0	49.0	36.8	35.0	8.4	-36.2	0.0	0.6	56.8	44.6	74.0	54.0	-17.2	-9.4	V		
9.748	3.0	45.4	38.4	36.8	9.8	-37.0	0.0	0.8	55.8	48.7	74.0	54.0	-18.2	-5.3	V		
4.874	3.0	39.3	26.3	33.4	6.9	-36.5	0.0	0.6	43.7	30.7	74.0	54.0	-30.3	-23.3	H		
7.311	3.0	45.4	34.0	35.0	8.4	-36.2	0.0	0.6	53.2	41.8	74.0	54.0	-20.8	-12.2	H		
9.748	3.0	43.2	35.4	36.8	9.8	-37.0	0.0	0.8	53.6	45.8	74.0	54.0	-20.4	-8.2	H		
b Mode, High Ch. Output Power = 19dBm																	
4.924	3.0	40.0	28.3	33.4	7.0	-36.5	0.0	0.6	44.6	32.8	74.0	54.0	-29.5	-21.2	V		
7.386	3.0	49.4	37.3	35.0	8.4	-36.2	0.0	0.6	57.3	45.2	74.0	54.0	-16.7	-8.8	V		
9.848	3.0	48.7	41.8	36.8	9.9	-37.0	0.0	0.8	59.2	52.3	74.0	54.0	-14.8	-1.7	V		
4.924	3.0	39.3	28.1	33.4	7.0	-36.5	0.0	0.6	43.8	32.6	74.0	54.0	-30.2	-21.4	H		
7.386	3.0	46.8	35.1	35.0	8.4	-36.2	0.0	0.6	54.7	43.0	74.0	54.0	-19.3	-11.0	H		
9.848	3.0	43.2	36.0	36.8	9.9	-37.0	0.0	0.8	53.7	46.5	74.0	54.0	-20.3	-7.5	H		
No more signal found above noise floor																	

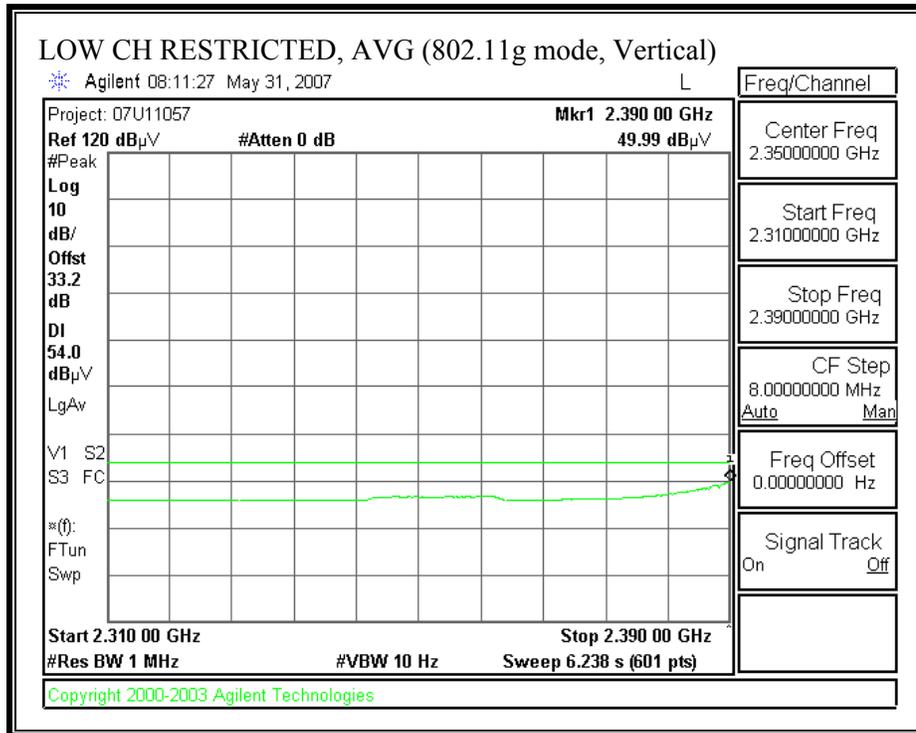
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



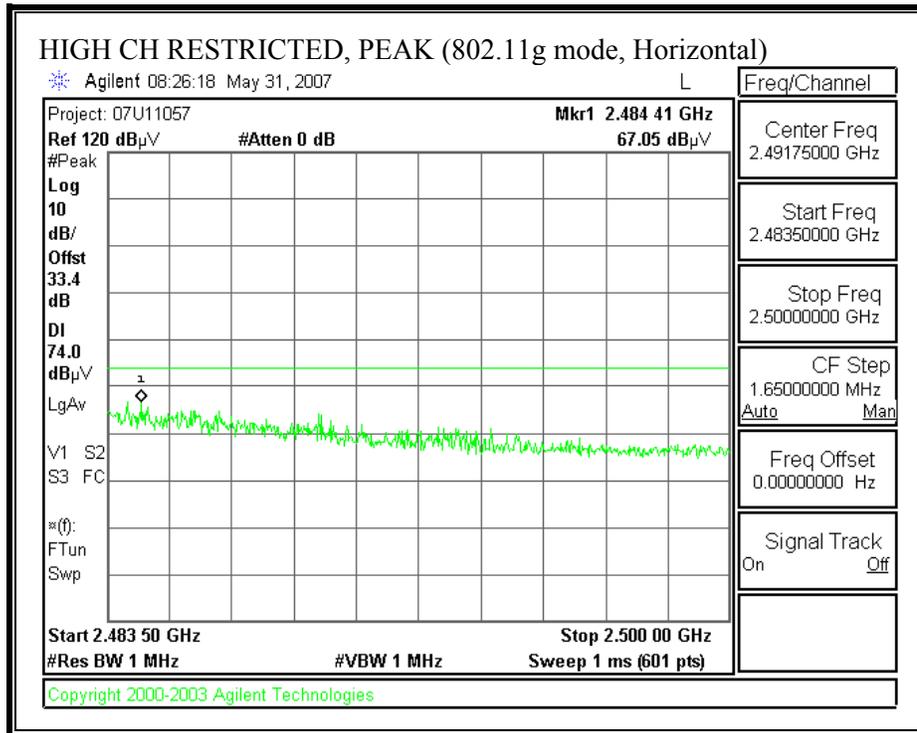


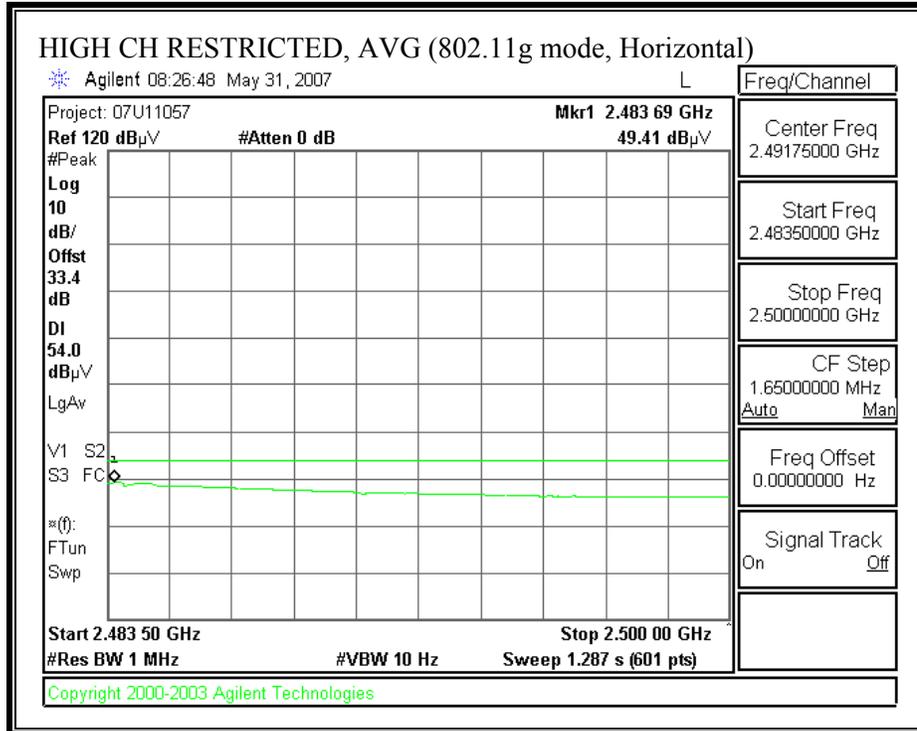
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



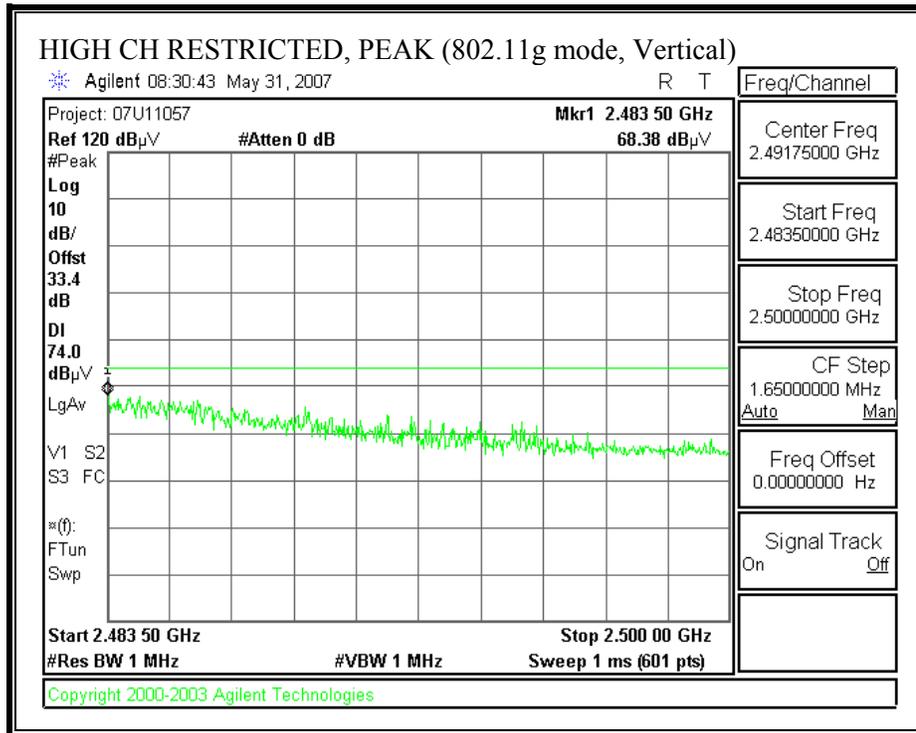


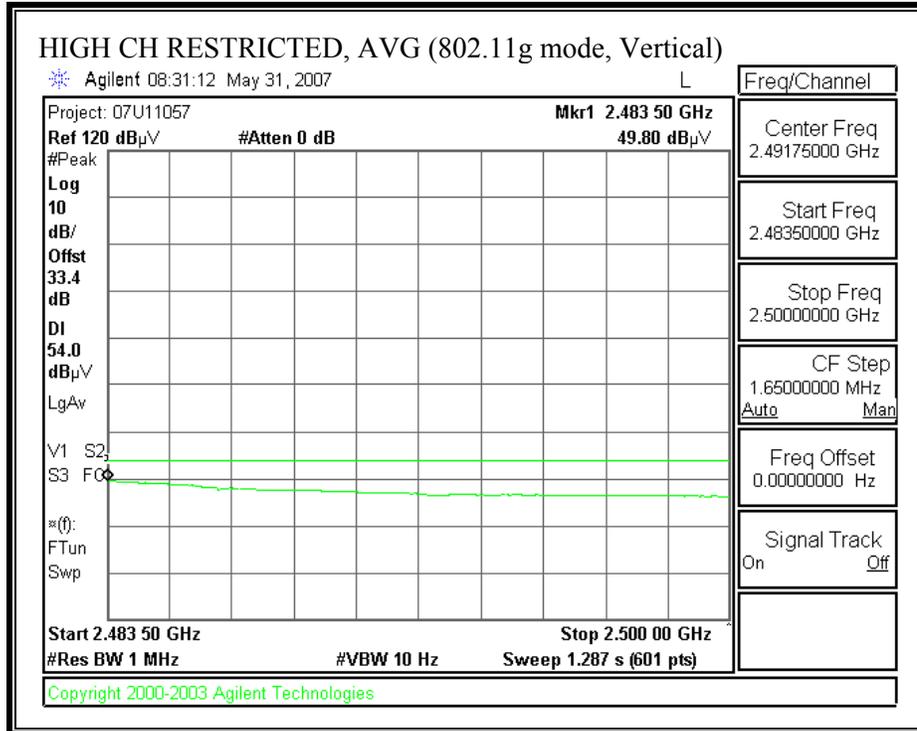
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)



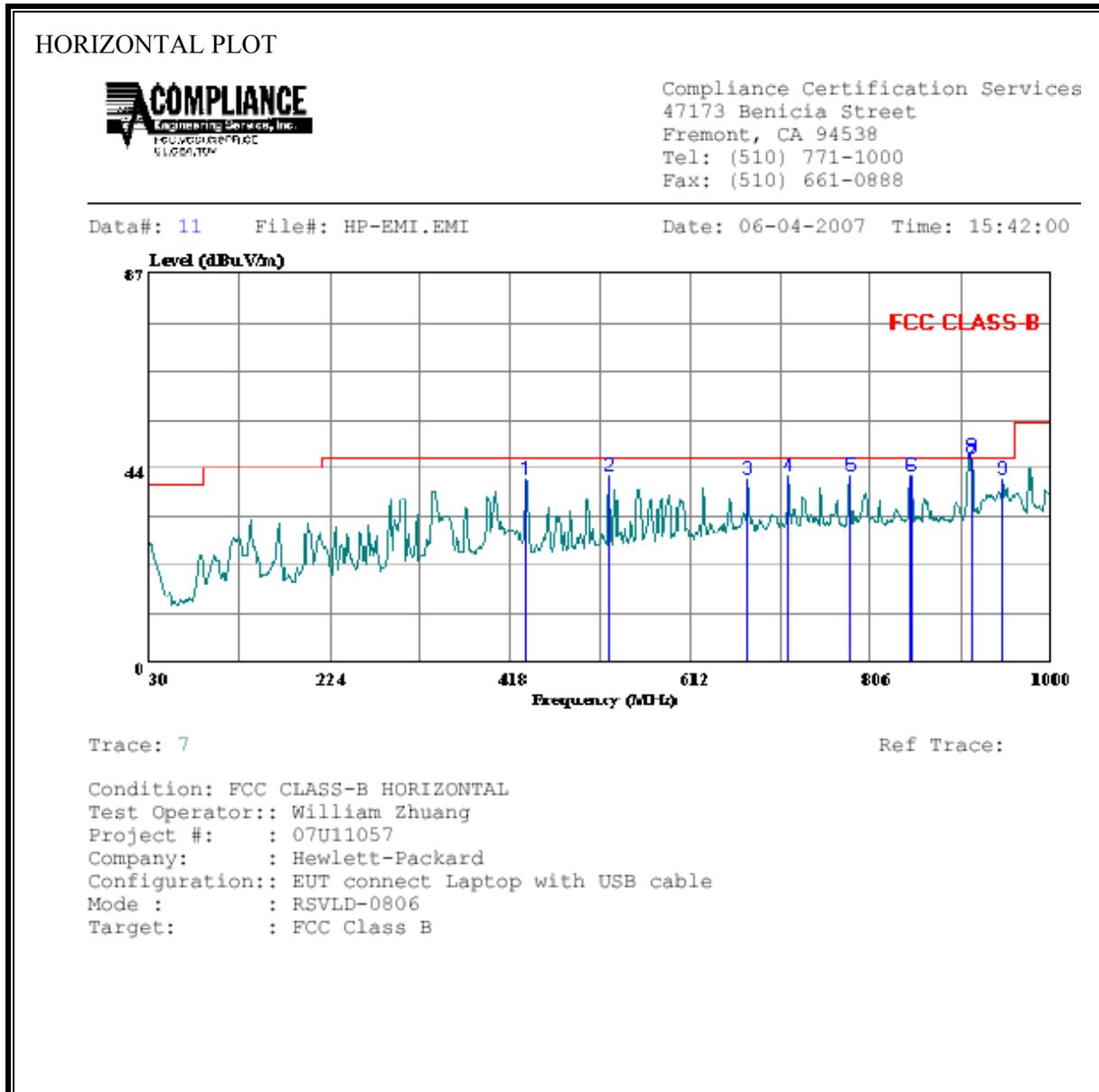


HARMONICS AND SPURIOUS EMISSIONS (g MODE)

05/31/07 High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Test Engr: William Zhuang																
Project #: 07U11057																
Company: Hewlett-Packard																
EUT Descrip.: 802.11bg USB Radio Module																
EUT M/N: RSVLD-0806																
Test Target: FCC 15.247																
Mode Oper: Tx On, g Mode																
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim Average Field Strength Limit				
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim Peak Field Strength Limit				
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar Margin vs. Average Limit				
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar Margin vs. Peak Limit				
CL	Cable Loss					HPF	High Pass Filter									
f	Dist	Read Pk	Read Avg	AF	CL	Amp	D Corr	Fitr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes	
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)	
g Mode, Low Ch. Output Power=16.5dBm																
4.824	3.0	38.3	26.3	33.3	6.9	-36.5	0.0	0.6	42.6	30.7	74.0	54.0	-31.4	-23.3	V	
7.236	3.0	53.9	30.9	34.9	8.4	-36.2	0.0	0.6	61.6	38.6	74.0	54.0	-12.4	-15.4	V	
4.824	3.0	38.7	26.4	33.3	6.9	-36.5	0.0	0.6	43.0	30.7	74.0	54.0	-31.0	-23.3	H	
7.236	3.0	48.2	28.4	34.9	8.4	-36.2	0.0	0.6	56.0	36.1	74.0	54.0	-18.0	-17.9	H	
g Mode, Mid Ch. Output Power=16.5dBm																
4.874	3.0	38.1	26.1	33.4	6.9	-36.5	0.0	0.6	42.5	30.6	74.0	54.0	-31.5	-23.4	V	
7.311	3.0	57.2	31.8	35.0	8.4	-36.2	0.0	0.6	65.0	39.6	74.0	54.0	-9.0	-14.4	V	
4.874	3.0	38.2	26.1	33.4	6.9	-36.5	0.0	0.6	42.7	30.5	74.0	54.0	-31.3	-23.5	H	
7.311	3.0	50.1	28.4	35.0	8.4	-36.2	0.0	0.6	57.9	36.2	74.0	54.0	-16.1	-17.8	H	
g Mode, High Ch. Output Power=16.5dBm																
4.924	3.0	38.7	26.0	33.4	7.0	-36.5	0.0	0.6	43.2	30.5	74.0	54.0	-30.8	-23.5	V	
7.386	3.0	59.1	32.2	35.0	8.4	-36.2	0.0	0.6	67.0	40.1	74.0	54.0	-7.0	-13.9	V	
4.924	3.0	38.3	26.1	33.4	7.0	-36.5	0.0	0.6	42.9	30.7	74.0	54.0	-31.1	-23.3	H	
7.386	3.0	55.3	29.6	35.0	8.4	-36.2	0.0	0.6	63.2	37.5	74.0	54.0	-10.8	-16.5	H	
No more signal found above noise floor																

7.1.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

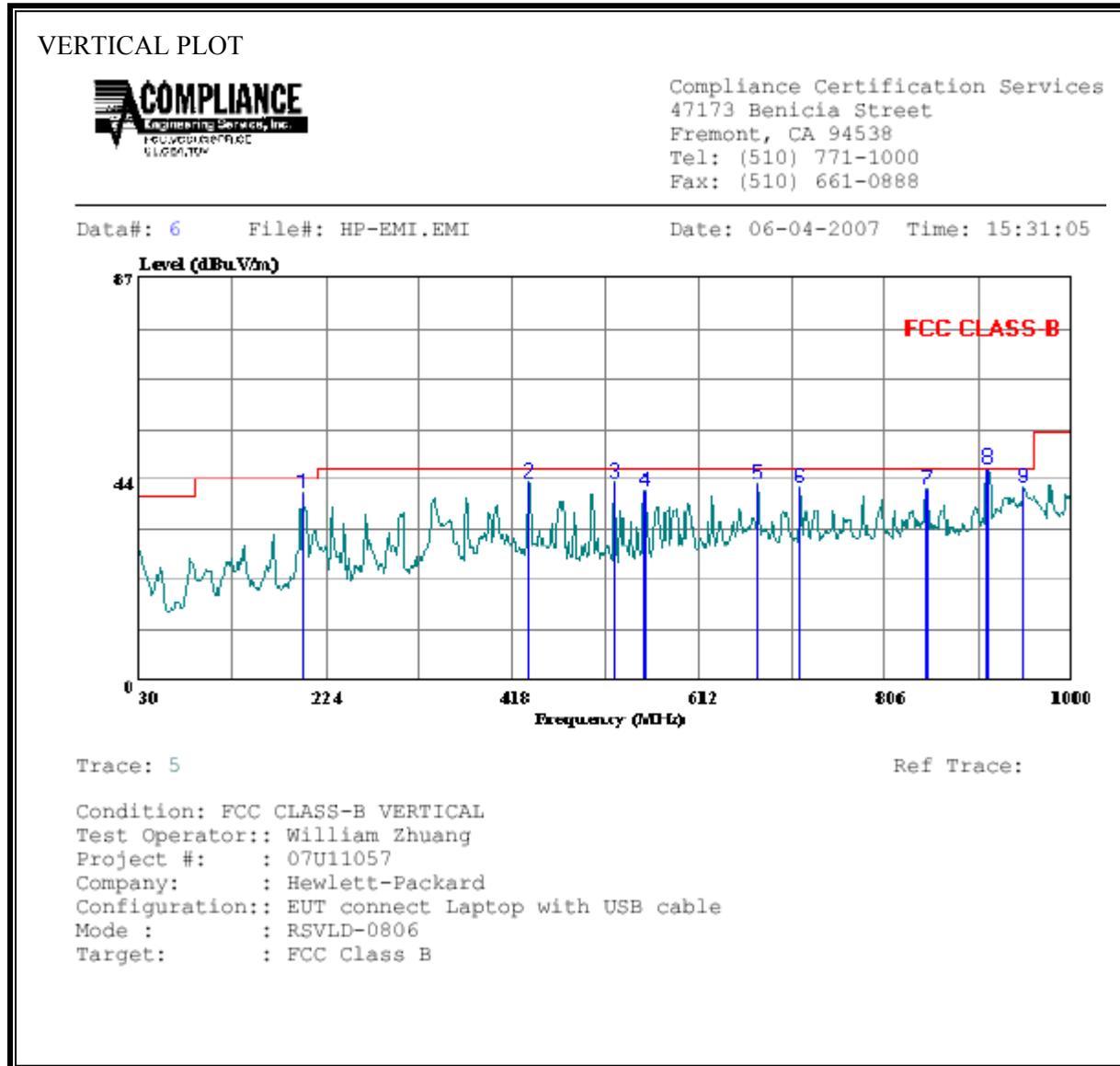
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	434.490	49.98	-8.96	41.02	46.00	-4.98	Peak
2	523.730	48.85	-6.90	41.95	46.00	-4.05	Peak
3	674.080	44.82	-3.94	40.88	46.00	-5.12	Peak
4	717.730	44.95	-3.25	41.70	46.00	-4.30	Peak
5	783.690	44.11	-2.33	41.78	46.00	-4.22	Peak
6	848.680	43.54	-1.66	41.88	46.00	-4.12	Peak
7	914.640	45.65	-1.01	44.64	46.00	-1.36	QP
8 *	914.640	47.11	-1.01	46.10	46.00	0.10	Peak
9	948.590	41.86	-0.85	41.01	46.00	-4.99	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	198.780	54.32	-13.63	40.69	43.50	-2.81	Peak
2	434.490	51.91	-8.96	42.95	46.00	-3.05	Peak
3	523.730	49.81	-6.90	42.91	46.00	-3.09	Peak
4	555.740	47.34	-6.25	41.09	46.00	-4.91	Peak
5	674.080	46.59	-3.94	42.65	46.00	-3.35	Peak
6	717.730	45.21	-3.25	41.96	46.00	-4.04	Peak
7	848.680	43.00	-1.66	41.34	46.00	-4.66	Peak
8	911.730	46.92	-1.02	45.90	46.00	-0.10	Peak
9	950.530	42.58	-0.82	41.76	46.00	-4.24	Peak