



CERT #803.01, 803.02, 803.05, 803.06

**SILEX TECHNOLOGY AMERICA, INC. TEST REPORT**  
**FOR THE**  
**WIRELESS ETHERNET BRIDGE, XRX-610**  
**FCC PART 15 SUBPART C SECTION 15.247 & RSS-210 ISSUE 7**  
**TESTING**

**DATE OF ISSUE: OCTOBER 27, 2009**

**PREPARED FOR:**

Silex Technology America, Inc.  
157 West 7065 South  
Midvale, UT 84047

P.O. No.: 3354-00  
W.O. No.: 89951

**PREPARED BY:**

Mary Ellen Clayton  
CKC Laboratories, Inc.  
5046 Sierra Pines Drive  
Mariposa, CA 95338

Date of test: September 11-29, 2009

**Report No.: FC09-181**

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**TABLE OF CONTENTS**

Administrative Information .....3  
 Approvals .....3  
 Summary of Results .....4  
 Conditions During Testing.....4  
 FCC 15.31(e) Voltage Variation.....5  
 FCC 15.31(m) Number Of Channels .....5  
 FCC 15.33(a) Frequency Ranges Tested .....5  
 EUT Operating Frequency .....5  
 Temperature And Humidity During Testing.....5  
 Equipment Under Test (EUT) Description .....5  
 Equipment Under Test .....5  
 Peripheral Devices .....5  
 Measurement Uncertainties .....6  
 Report of Emissions Measurements.....6  
     Testing Parameters.....6  
     FCC 15.207 Conducted Emissions .....8  
     FCC 15.247(a)(2) 6dB Bandwidth.....15  
     FCC 15.247(b)(3) RF Output Power .....19  
     FCC 15.247(d)/15.209 OATS Spurious Emissions .....24  
     FCC 15.247(e) Power Spectral Density.....32  
     Bandedge.....39  
     RSS-210 99% Bandwidth .....43

**ADMINISTRATIVE INFORMATION**

**DATE OF TEST:** September 11-29, 2009

**DATE OF RECEIPT:** September 11, 2009

**REPRESENTATIVE:** Ron Tozaki

**MANUFACTURER:**

Silex Technology America, Inc.  
157 West 7065 South  
Midvale, UT 84047

**TEST LOCATION:**

CKC Laboratories, Inc.  
110 Olinda Place  
Brea, CA 92823

**TEST METHOD:** ANSI C63.4 (2003), RSS-210 Issue 7 and RSS GEN Issue 2

**PURPOSE OF TEST:** To perform the testing of the Wireless Ethernet Bridge, XRX-610 with the requirements for FCC Part 15 Subpart C Section 15.247 and RSS-210 devices.

**APPROVALS**

**QUALITY ASSURANCE:**

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Steve Behm, Director of Engineering Services

**TEST PERSONNEL:**



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Eddie Wong, Senior EMC Engineer

**SUMMARY OF RESULTS**

<b>Test</b>	<b>Specification/Method</b>	<b>Results</b>
Voltage Variation	FCC 15.31(e)	Pass
Conducted Emissions	FCC 15.207	Pass
6dB Bandwidth	FCC 15.247(a)(2)	Pass
RF Output Power	FCC 15.247(b)(3)	Pass
Power Spectral Density	FCC 15.247(e)	Pass
Spurious Emissions	FCC 15.247(d)/FCC 15.209	Pass
Bandedge	ITU-R 55/1	Pass
99% Bandwidth	RSS-210 Issue 7/RSS GEN Issue 2	Pass
Site File No.	FCC: 90473 IC: 3082D-1	

**CONDITIONS DURING TESTING**

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to the antenna cable.

**FCC 15.31(e) Voltage Variation**

The AC supply voltage was varied + - 15 %, no variation in output power was observed.

**FCC 15.31(m) Number Of Channels**

This device was tested on three channels.

**FCC 15.33(a) Frequency Ranges Tested**

15.207 Conducted Emissions: 150 kHz – 30 MHz

15.209/15.247 Radiated Emissions: 9 kHz – 25 GHz

**EUT Operating Frequency**

The EUT was operating at 2412MHz, 2437MHz, 2462MHz.

**Temperature And Humidity During Testing**

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

**EQUIPMENT UNDER TEST (EUT) DESCRIPTION**

**EQUIPMENT UNDER TEST**

**Power Supply**

Manuf: APD

Model: DA-24F12

Serial: NA

**Wireless 802.11 a/b/g Ethernet Bridge**

Manuf: Silex Technology America, Inc.

Model: XRX-610

Serial: NA

**PERIPHERAL DEVICES**

The EUT was tested with the following peripheral device(s):

**Ethernet Hub**

Manuf: Netgear

Model: DS108

Serial: NA

**802.11 a/b/g Wireless Access Point**

Manuf: 3-Com

Model: WL-526

Serial: NA

**Laptop**

Manuf: Sony

Model: PCG-982L

Serial: 8323330

**Laptop**

Manuf: HP

Model: Omnibook XE3

Serial: TW13113065

## MEASUREMENT UNCERTAINTIES

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

## REPORT OF EMISSIONS MEASUREMENTS

### TESTING PARAMETERS

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

### CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB $\mu$ V/m, the spectrum analyzer reading in dB $\mu$ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB $\mu$ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB $\mu$ V/m)

### TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

### SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

#### Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

#### Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

#### Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

**FCC 15.207 CONDUCTED EMISSIONS**

**Test Setup Photos**





## Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**  
 Specification: **FCC 15.207 COND [AVE]**  
 Work Order #: **89951** Date: 9/16/2009  
 Test Type: **Conducted Emissions** Time: 1:37:44 PM  
 Equipment: **Wireless 802.11 a/b/g Ethernet Bridge.** Sequence#: 8  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: XRX-610 110V 60Hz  
 S/N: NA

### Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
LISN	1104	12/09/2008	12/09/2010	00847
6dB Attenuator	None	10/14/2008	10/14/2010	P05886
150kHz HPF	G7755	01/09/2008	01/09/2010	02610
Conducted Emission Cable	Cable #21	05/12/2008	05/12/2010	P04358

### Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	APD	DA-24F12	NA
Wireless 802.11 a/b/g Ethernet Bridge.*	Silex Technology America, Inc.	XRX-610	NA

### Support Devices:

Function	Manufacturer	Model #	S/N
Ethernet Hub	Netgear	DS108	NA
Laptop	HP	Omnibook XE3	TW13113065
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330

### Test Conditions / Notes:

The EUT is placed on the wooden table. The ethernet port is connected to remote laptop computer via a support ethernet hub.

Frequency: 2.4 - 2.4845GHz, 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx/Rx Frequency: 2.4 GHz

Modulation: 802.11 g

Power: 15dBm

To evaluate the non-intentional and intentional radiator portion of the device, the EUT is operating in loop back mode via ethernet port and WiFi simultaneously. The EUT receives data via ethernet port and transmits the received data to remote wireless access point.

2.4 GHz Receiver portion of the RF circuit is active.

The antenna is orientated in upright position.

21°C, 55% relative humidity.

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to antenna cable.

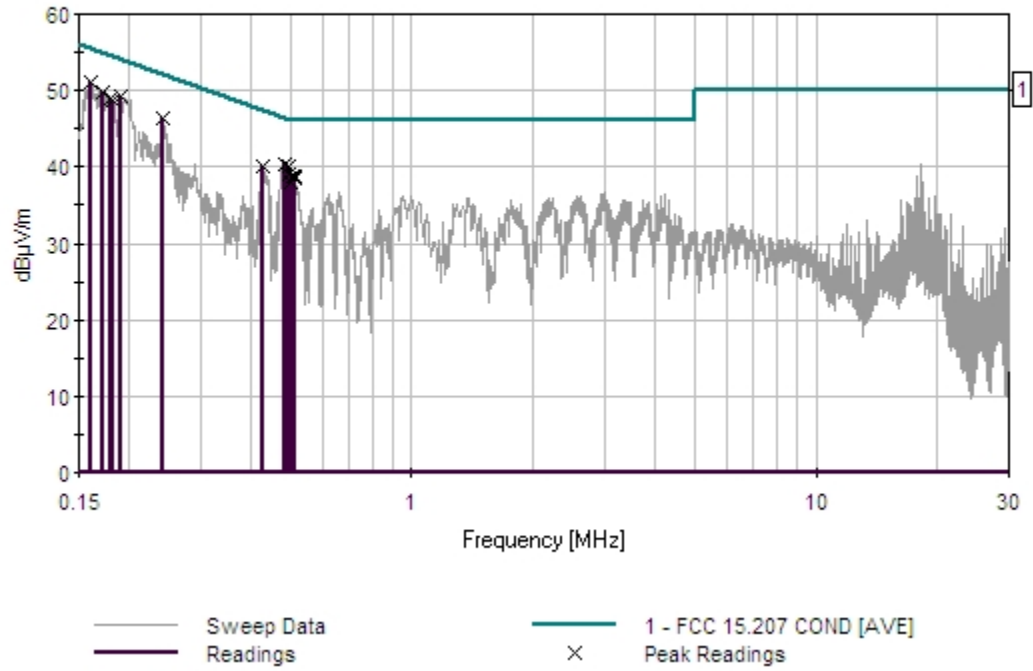
**Transducer Legend:**

T1=150kHz HPF AN02610_010910	T2=6dB atten-P05886-101410.TRN
T3=Cable #21 -P04358- Site A 05/12/10	T4=L1 Insertion Loss AN00847_120910

**Measurement Data:**      Reading listed by margin.      Test Lead: Black

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	160.908k	44.5	+0.6	+6.1	+0.0	+0.0	+0.0	51.2	55.4	-4.2	Black
2	191.451k	42.9	+0.3	+6.1	+0.0	+0.0	+0.0	49.3	54.0	-4.7	Black
3	172.543k	43.2	+0.4	+6.1	+0.0	+0.0	+0.0	49.7	54.8	-5.1	Black
4	179.088k	42.7	+0.3	+6.1	+0.0	+0.0	+0.0	49.1	54.5	-5.4	Black
5	240.901k	40.2	+0.2	+6.1	+0.0	+0.0	+0.0	46.5	52.1	-5.6	Black
6	182.724k	42.3	+0.3	+6.1	+0.0	+0.0	+0.0	48.7	54.4	-5.7	Black
7	493.968k	33.9	+0.2	+6.1	+0.0	+0.0	+0.0	40.2	46.1	-5.9	Black
8	482.333k	34.0	+0.2	+6.1	+0.0	+0.0	+0.0	40.3	46.3	-6.0	Black
9	496.150k	33.8	+0.2	+6.1	+0.0	+0.0	+0.0	40.1	46.1	-6.0	Black
10	499.059k	32.7	+0.2	+6.1	+0.0	+0.0	+0.0	39.0	46.0	-7.0	Black
11	510.694k	32.5	+0.2	+6.1	+0.0	+0.0	+0.0	38.8	46.0	-7.2	Black
12	429.974k	33.7	+0.2	+6.1	+0.0	+0.0	+0.0	40.0	47.3	-7.3	Black
13	508.513k	32.4	+0.2	+6.1	+0.0	+0.0	+0.0	38.7	46.0	-7.3	Black
14	512.149k	32.2	+0.2	+6.1	+0.0	+0.0	+0.0	38.5	46.0	-7.5	Black
15	502.695k	31.8	+0.2	+6.1	+0.0	+0.0	+0.0	38.1	46.0	-7.9	Black

CKC Laboratories, Inc. Date: 9/16/2009 Time: 1:37:44 PM Silex Technology, America, Inc. WO#: 89951  
 FCC 15.207 COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 8  
 XRX 610



Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.207 COND [AVE]**

Work Order #: **89951**

Date: 9/16/2009

Test Type: **Conducted Emissions**

Time: 1:41:52 PM

Equipment: **Wireless 802.11 a/b/g Ethernet Bridge.**

Sequence#: 9

Manufacturer: Silex Technology America, Inc.

Tested By: E. Wong

Model: XRX-610

110V 60Hz

S/N: NA

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
LISN	1104	12/09/2008	12/09/2010	00847
6dB Attenuator	None	10/14/2008	10/14/2010	P05886
150kHz HPF	G7755	01/09/2008	01/09/2010	02610
Conducted Emission Cable	Cable #21	05/12/2008	05/12/2010	P04358

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Power Supply	APD	DA-24F12	NA
Wireless 802.11 a/b/g Ethernet Bridge.*	Silex Technology America, Inc.	XRX-610	NA

**Support Devices:**

Function	Manufacturer	Model #	S/N
Ethernet Hub	Netgear	DS108	NA
Laptop	HP	Omnibook XE3	TW13113065
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330

**Test Conditions / Notes:**

The EUT is placed on the wooden table. The ethernet port is connected to remote laptop computer via a support ethernet hub.

Frequency: 2.4 - 2.4845GHz, 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx/Rx Frequency: 2.4 GHz

Modulation: 802.11 g

Power: 15dBm

To evaluate the non-intentional and intentional radiator portion of the device, the EUT is operating in loop back mode via ethernet port and WiFi simultaneously. The EUT receives data via ethernet port and transmits the received data to remote wireless access point.

2.4 GHz Receiver portion of the RF circuit is active.

The antenna is orientated in upright position.

21°C, 55% relative humidity.

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to antenna cable.

**Transducer Legend:**

T1=150kHz HPF AN02610_010910	T2=6dB atten-P05886-101410.TRN
T3=Cable #21 -P04358- Site A 05/12/10	T4=L2 Insertion Loss AN00847_120910

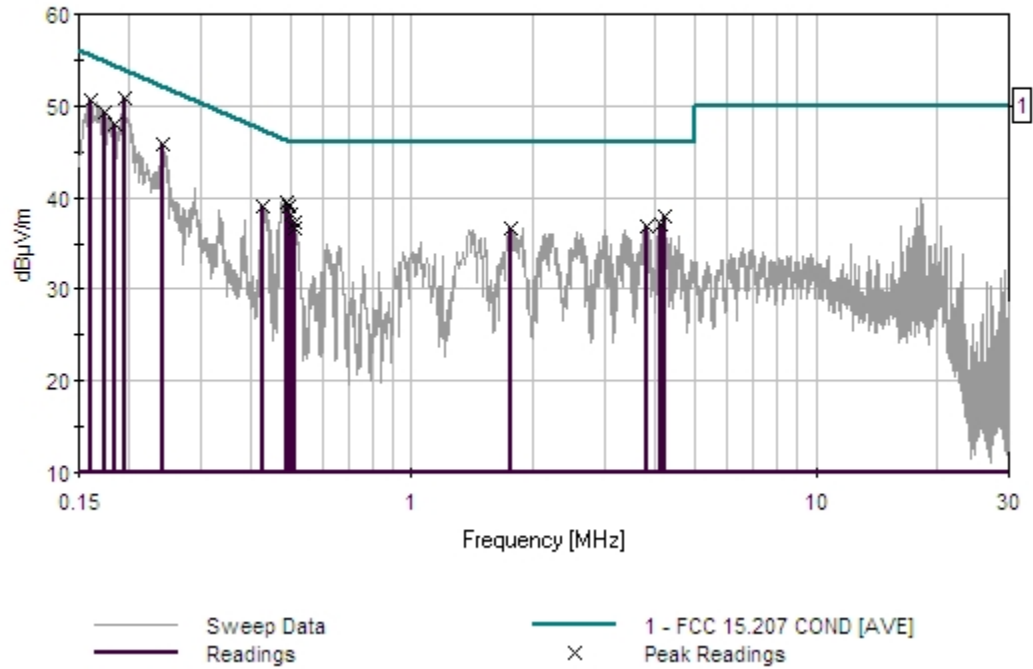
**Measurement Data:**

Reading listed by margin.

Test Lead: White

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	195.087k	44.4	+0.2	+6.1	+0.0	+0.1	+0.0	50.8	53.8	-3.0	White
2	160.908k	43.9	+0.6	+6.1	+0.0	+0.0	+0.0	50.6	55.4	-4.8	White
3	173.998k	42.6	+0.4	+6.1	+0.0	+0.1	+0.0	49.2	54.8	-5.6	White
4	243.082k	39.5	+0.2	+6.1	+0.0	+0.1	+0.0	45.9	52.0	-6.1	White
5	183.452k	41.5	+0.3	+6.1	+0.0	+0.1	+0.0	48.0	54.3	-6.3	White
6	491.787k	33.1	+0.2	+6.1	+0.0	+0.0	+0.0	39.4	46.1	-6.7	White
7	499.059k	32.8	+0.2	+6.1	+0.0	+0.0	+0.0	39.1	46.0	-6.9	White
8	501.241k	31.8	+0.2	+6.1	+0.0	+0.0	+0.0	38.1	46.0	-7.9	White
9	4.220M	31.3	+0.2	+6.1	+0.1	+0.2	+0.0	37.9	46.0	-8.1	White
10	429.247k	32.7	+0.2	+6.1	+0.0	+0.0	+0.0	39.0	47.3	-8.3	White
11	510.694k	30.9	+0.2	+6.1	+0.0	+0.0	+0.0	37.2	46.0	-8.8	White
12	4.135M	30.5	+0.2	+6.1	+0.1	+0.2	+0.0	37.1	46.0	-8.9	White
13	3.799M	30.3	+0.2	+6.1	+0.1	+0.2	+0.0	36.9	46.0	-9.1	White
14	514.330k	30.4	+0.2	+6.1	+0.0	+0.0	+0.0	36.7	46.0	-9.3	White
15	1.762M	30.1	+0.2	+6.1	+0.1	+0.1	+0.0	36.6	46.0	-9.4	White

CKC Laboratories, Inc. Date: 9/16/2009 Time: 1:41:52 PM Silex Technology, America, Inc. WO#: 89951  
 FCC 15.207 COND [AVE] Test Lead: White 110V 60Hz Sequence#: 9  
 XRX 610



## FCC 15.247(a)(2) 6dB BANDWIDTH

### Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

### Test Conditions

The EUT is placed on the test bench. The device is set in continuous transmit mode, the RF signal is measured at the antenna port.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz

Ch 1, 6, 11

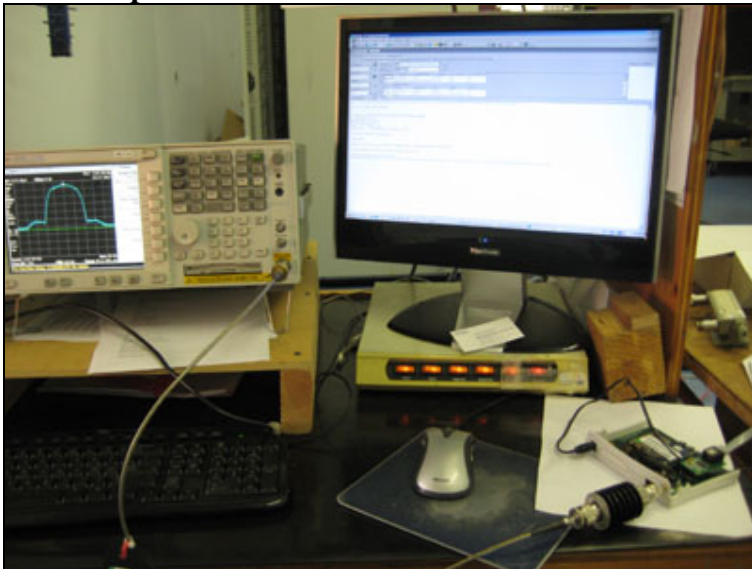
Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)

Firmware Power setting: 127

21°C, 55% relative humidity.

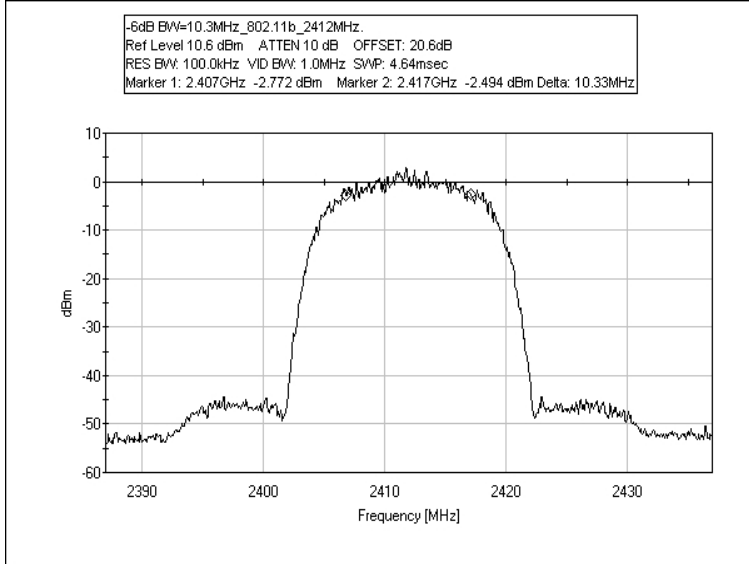
Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to the antenna cable.

### Test Setup Photos

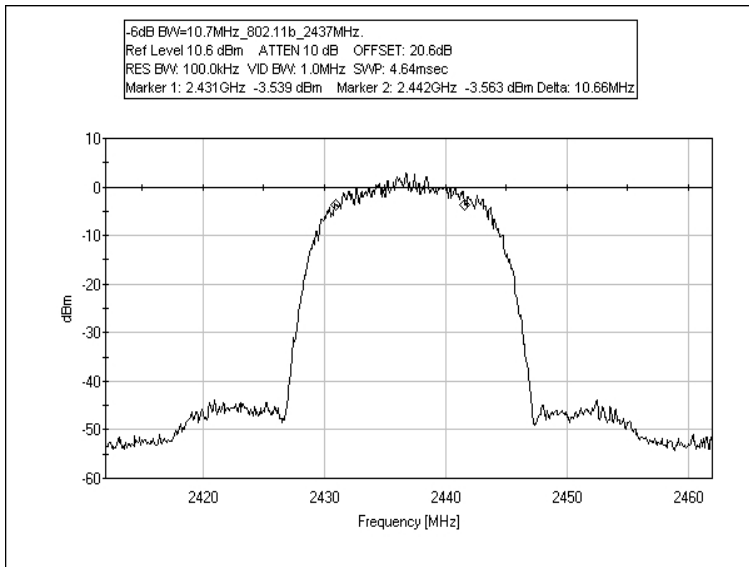


**Plots**

**FCC 15.247(a)(2) -6dB BANDWIDTH = 10.3MHz - 802.11b 2412MHz**

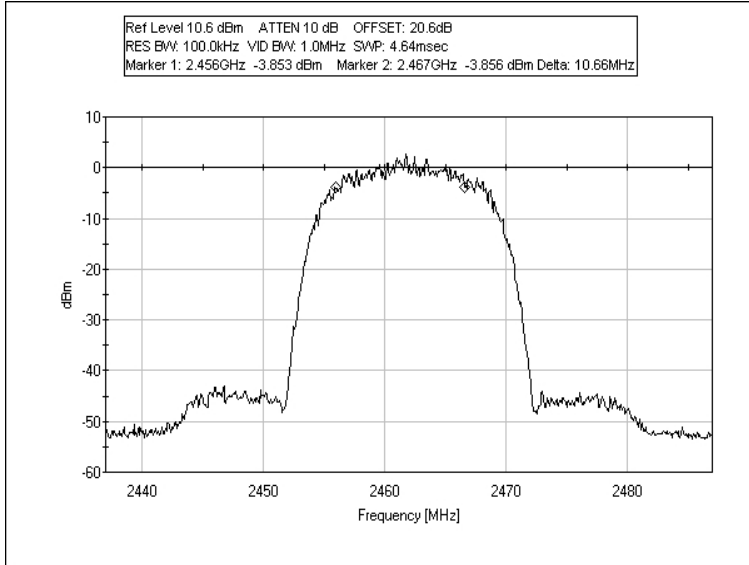


**FCC 15.247(a)(2) -6dB BANDWIDTH = 10.7MHz - 802.11b 2437MHz**

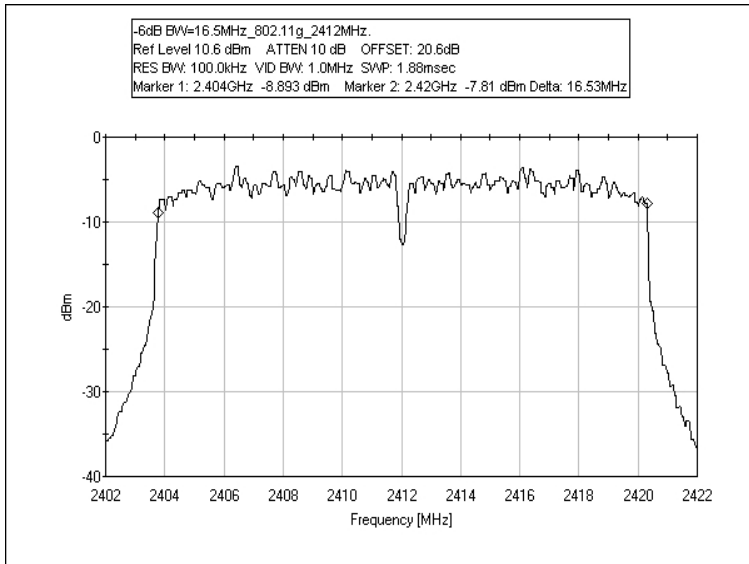




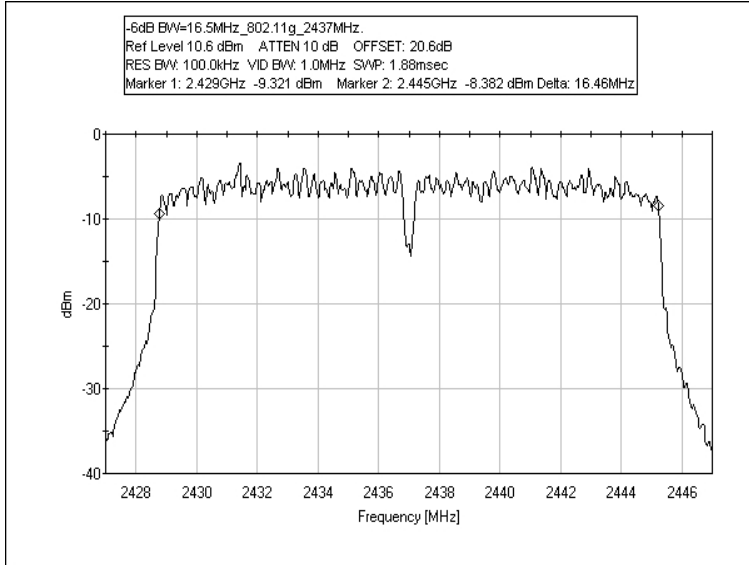
**FCC 15.247(a)(2) -6dB BANDWIDTH = 10.7MHz - 802.11b 2462MHz**



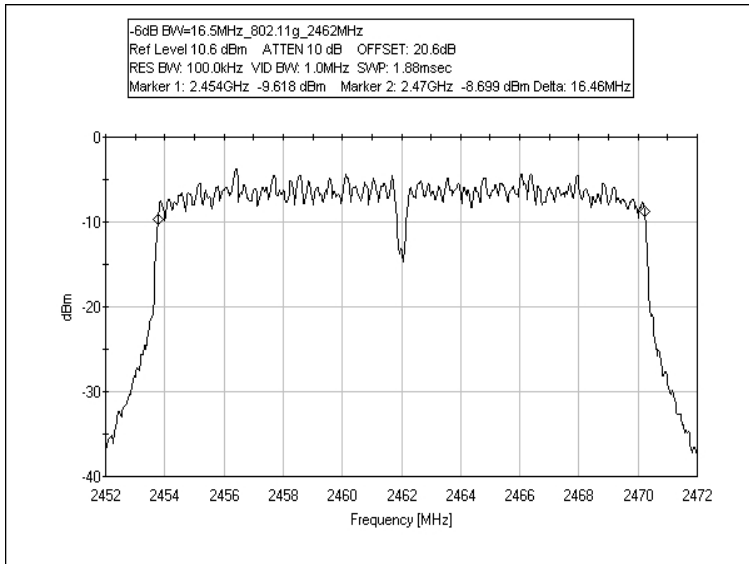
**FCC 15.247(a)(2) -6dB BANDWIDTH = 16.5MHz - 802.11g 2412MHz**



**FCC 15.247(a)(2) -6dB BANDWIDTH = 16.5MHz - 802.11g 2437MHz**



**FCC 15.247(a)(2) -6dB BANDWIDTH = 16.5MHz - 802.11g 2462MHz**



**FCC 15.247(b)(3) RF OUTPUT POWER**

**Test Equipment**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
Programmable Power Source	345AMX / UPC32	03/23/2009	03/23/2011	01695/ 01696

**Test Conditions**

The EUT is placed on the test bench. The device is set in continuous transmit mode. The RF output power is measured at the antenna port in accordance with KDB Publication No. 558074, Power option 2, Method #1.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz

Ch 1, 6, 11

Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)

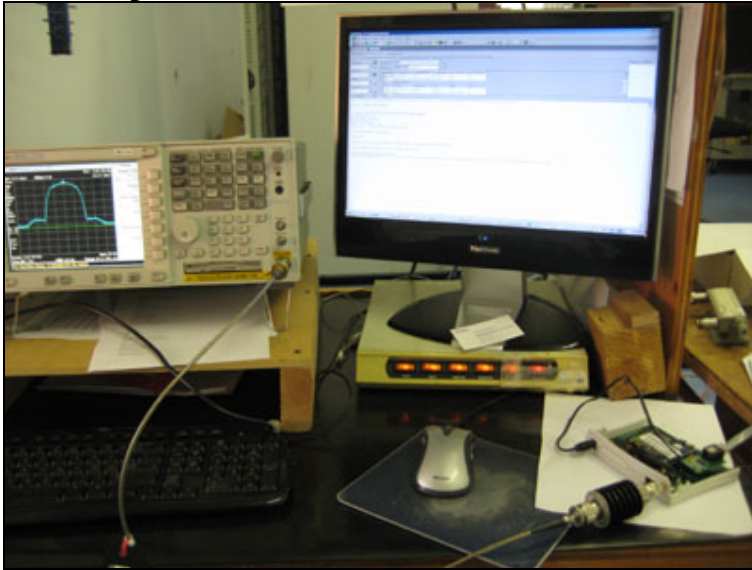
Firmware Power setting: 127

21°C, 55% relative humidity.

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to the antenna cable.

The AC supply voltage was varied + - 15 %, no variation in output power was observed.

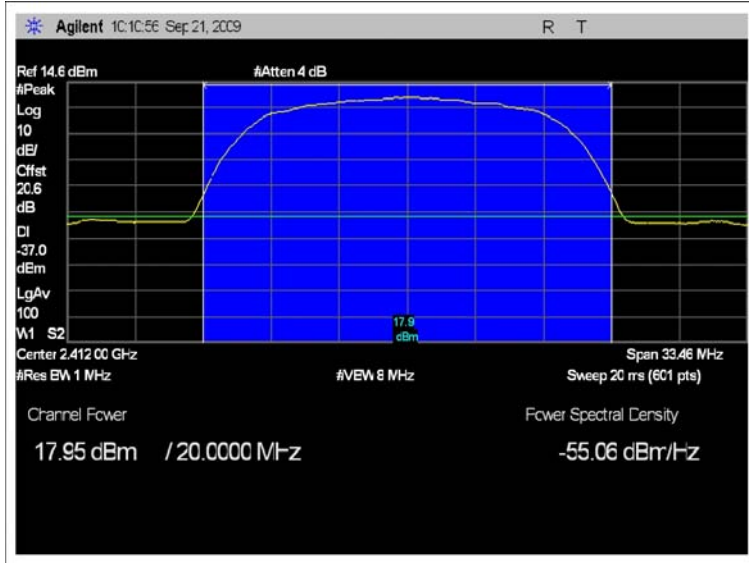
**Test Setup Photos**



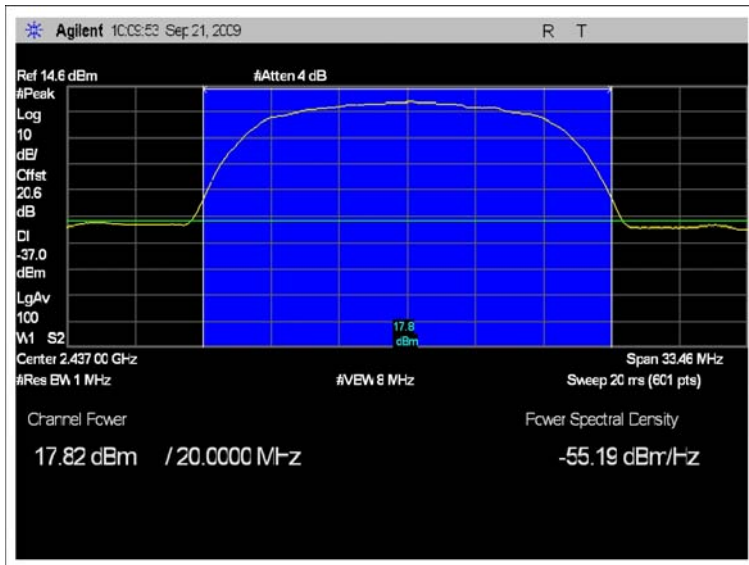
**Data**

<b>Modulation</b>	<b>Frequency</b>	<b>Power</b>	<b>Power</b>
802.11b	2412 MHz	18.0 dBm	0.0631W
802.11b	2437 MHz	17.8 dBm	0.0603W
802.11b	2462 MHz	17.7 dBm	0.0589W
802.11g	2412 MHz	15.8 dBm	0.0380W
802.11g	2437 MHz	15.8 dBm	0.0380W
802.11g	2462 MHz	15.4 dBm	0.0347W

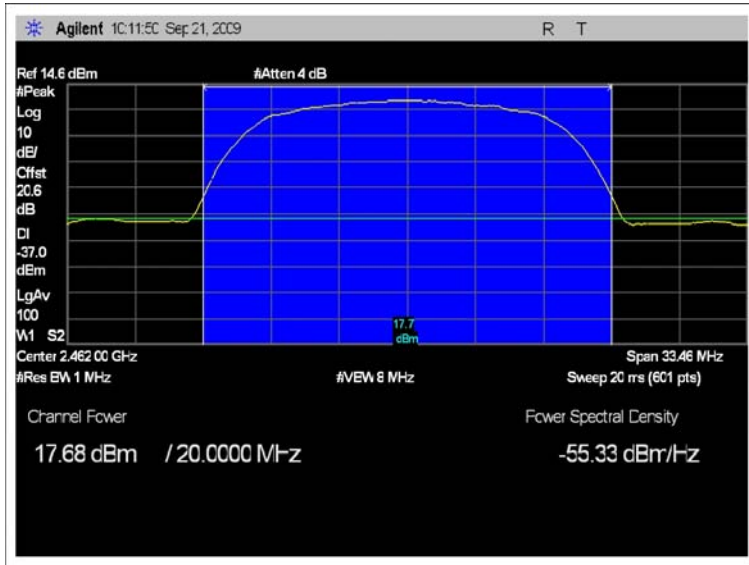
**FCC 15.247(b)(3) PEAK POWER - 802.11b 2412MHz**



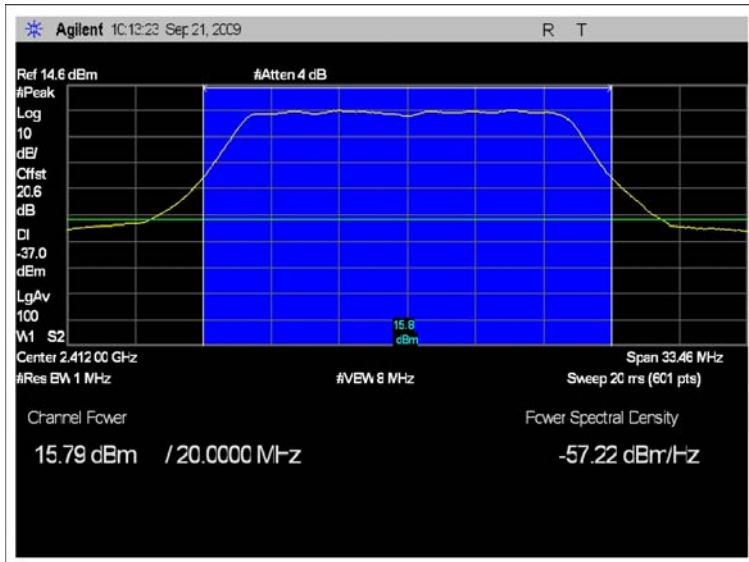
**FCC 15.247(b)(3) PEAK POWER - 802.11b 2437MHz**



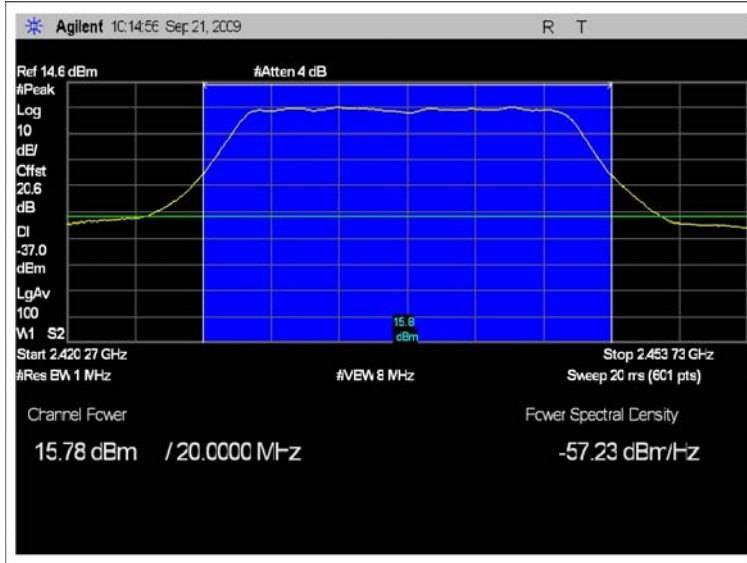
**FCC 15.247(b)(3) PEAK POWER - 802.11b 2462MHz**



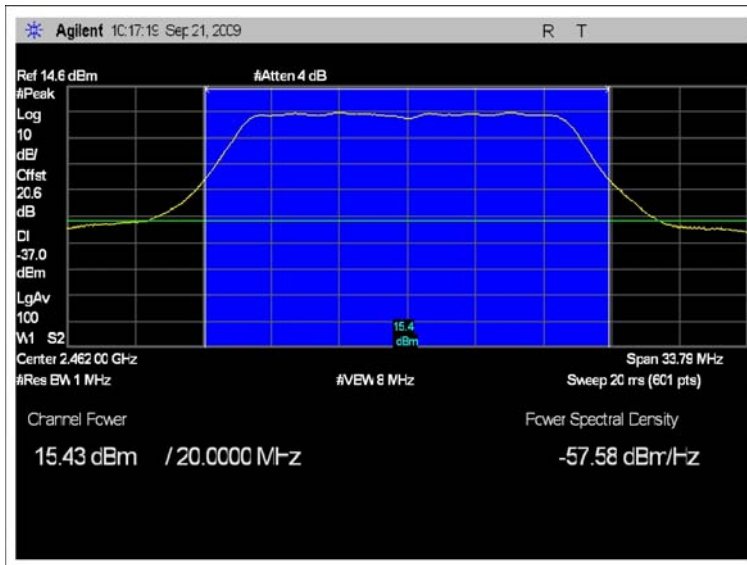
**FCC 15.247(b)(3) PEAK POWER - 802.11g 2412MHz**



**FCC 15.247(b)(3) PEAK POWER - 802.11g 2437MHz**



**FCC 15.247(b)(3) PEAK POWER - 802.11g 2462MHz**



**FCC 15.247(d)/15.209 OATS SPURIOUS EMISSIONS**

**Test Setup Photos**





## Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**  
 Specification: **FCC 15.247 (d) (FCC 15.209)**  
 Work Order #: **89951** Date: 9/18/2009  
 Test Type: **Radiated Scan** Time: 15:36:59  
 Equipment: **Wireless 802.11 a/b/g Ethernet Bridge.** Sequence#: 21  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: XRX-610  
 S/N: NA

### Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Bilog Antenna	2451	01/21/2008	01/21/2010	01995
Pre amp to SA Cable	Cable #10	04/16/2009	04/16/2011	P05050
Cable	Cable15	01/05/2009	01/05/2011	P05198
Pre Amp	1937A02548	05/02/2008	05/02/2010	00309
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/21/2009	09/21/2011	P2948
Heliax Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
26.5-40GHz Horn Antenna	1012	01/08/2008	01/08/2010	02045
18-26GHz Horn	942126-003	11/12/2008	11/12/2010	01413
3.0 GHz HPF	1	03/25/2008	03/25/2010	02744
Loop Antenna	2014	06/16/2008	06/16/2010	00314
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
2'-40GHz cable	NA	09/14/2009	09/14/2011	P02947

### Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	APD	DA-24F12	NA
Wireless 802.11 a/b/g Ethernet Bridge.*	Silex Technology America, Inc.	XRX-610	NA

### Support Devices:

Function	Manufacturer	Model #	S/N
Ethernet Hub	Netgear	DS108	NA
Laptop	HP	Omnibook XE3	TW13113065
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330

**Test Conditions / Notes:**

The EUT is placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The ethernet port is connected to remote laptop computer via a support ethernet hub.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz

Ch 1, 6, 11

Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)

Firmware Power setting: 127

Power :( 802.11b) 18dBm 0.0631 watt, (802.11 g) 15.8dBm, 0.0380W

Antenna Gain: 1.5dBi @2.5GHz

The antenna is orientated in upright position.

21°C, 55% relative humidity.

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to antenna cable.

Frequency range of measurement = 9 kHz- 25 GHz.

Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 26000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Bilog-AN01995 BILOG_012110	T2=Cable #10 ANP05050 041611
T3=Cable #15_05198_ Site A, 010511	T4=Pre_amp_HP8447D-AN00309-050210
T5=Heliac Cable 54' ANP05565 090410	T6=HF_pre AMP-1-26GHz_AN00786-072810.TRN
T7=Hi Freq_40GHz_2ft-ANP02948-091809	T8=Horn Ant AN00849 060610
T9=HPF_3GHz-AN02744-032510	

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	T9				Table	dBµV/m	dBµV/m	dB	Ant
			dB	dB	dB	dB					
1	950.083M	39.3	+24.1	+0.7	+5.9	-27.2	+0.0	42.8	46.0	-3.2	Horiz
	QP		+0.0	+0.0	+0.0	+0.0					
			+0.0								
^	950.075M	39.7	+24.1	+0.7	+5.9	-27.2	+0.0	43.2	46.0	-2.8	Horiz
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
3	750.100M	42.4	+21.6	+0.4	+5.1	-27.0	+0.0	42.5	46.0	-3.5	Horiz
	QP		+0.0	+0.0	+0.0	+0.0					
			+0.0								
^	750.100M	44.2	+21.6	+0.4	+5.1	-27.0	+0.0	44.3	46.0	-1.7	Horiz
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
5	666.708M	42.7	+20.4	+0.5	+4.8	-27.2	+0.0	41.2	46.0	-4.8	Horiz
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
6	799.987M	39.8	+22.5	+0.4	+5.3	-27.2	+0.0	40.8	46.0	-5.2	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

7	816.030M	38.8	+22.6 +0.0 +0.0	+0.5 +0.0	+5.4 +0.0	-27.1 +0.0	+0.0	40.2	46.0	-5.8	Vert
8	750.083M	38.5	+21.6 +0.0 +0.0	+0.4 +0.0	+5.1 +0.0	-27.0 +0.0	+0.0	38.6	46.0	-7.4	Vert
9	900.050M	35.6	+23.3 +0.0 +0.0	+0.7 +0.0	+5.7 +0.0	-27.2 +0.0	+0.0	38.1	46.0	-7.9	Vert
10	400.017M QP	45.7	+16.0 +0.0 +0.0	+0.4 +0.0	+3.6 +0.0	-27.8 +0.0	+0.0	37.9	46.0	-8.1	Horiz
^	400.017M	48.0	+16.0 +0.0 +0.0	+0.4 +0.0	+3.6 +0.0	-27.8 +0.0	+0.0	40.2	46.0	-5.8	Horiz
12	250.017M	49.5	+12.6 +0.0 +0.0	+0.3 +0.0	+2.8 +0.0	-27.7 +0.0	+0.0	37.5	46.0	-8.5	Horiz
13	950.100M	33.7	+24.1 +0.0 +0.0	+0.7 +0.0	+5.9 +0.0	-27.2 +0.0	+0.0	37.2	46.0	-8.8	Vert
14	539.992M	41.0	+18.9 +0.0 +0.0	+0.4 +0.0	+4.3 +0.0	-27.6 +0.0	+0.0	37.0	46.0	-9.0	Horiz
15	360.000M	46.1	+15.0 +0.0 +0.0	+0.3 +0.0	+3.4 +0.0	-27.8 +0.0	+0.0	37.0	46.0	-9.0	Horiz
16	400.017M	44.5	+16.0 +0.0 +0.0	+0.4 +0.0	+3.6 +0.0	-27.8 +0.0	+0.0	36.7	46.0	-9.3	Vert
17	900.058M	34.0	+23.3 +0.0 +0.0	+0.7 +0.0	+5.7 +0.0	-27.2 +0.0	+0.0	36.5	46.0	-9.5	Horiz
18	507.992M	41.5	+18.3 +0.0 +0.0	+0.4 +0.0	+4.1 +0.0	-27.8 +0.0	+0.0	36.5	46.0	-9.5	Horiz
19	250.033M	48.3	+12.6 +0.0 +0.0	+0.3 +0.0	+2.8 +0.0	-27.7 +0.0	+0.0	36.3	46.0	-9.7	Vert
20	700.058M	37.4	+20.7 +0.0 +0.0	+0.5 +0.0	+4.9 +0.0	-27.3 +0.0	+0.0	36.2	46.0	-9.8	Horiz
21	300.000M	47.4	+13.2 +0.0 +0.0	+0.3 +0.0	+3.0 +0.0	-27.8 +0.0	+0.0	36.1	46.0	-9.9	Vert
22	736.042M	36.3	+21.4 +0.0 +0.0	+0.4 +0.0	+5.0 +0.0	-27.1 +0.0	+0.0	36.0	46.0	-10.0	Horiz
23	375.000M	44.3	+15.4 +0.0 +0.0	+0.4 +0.0	+3.5 +0.0	-27.8 +0.0	+0.0	35.8	46.0	-10.2	Horiz

24	768.025M	35.1	+22.0 +0.0 +0.0	+0.4 +0.0	+5.2 +0.0	-27.1 +0.0	+0.0	35.6	46.0	-10.4	Horiz
25	479.992M	41.2	+17.8 +0.0 +0.0	+0.4 +0.0	+4.0 +0.0	-27.8 +0.0	+0.0	35.6	46.0	-10.4	Horiz
26	768.083M	34.9	+22.0 +0.0 +0.0	+0.4 +0.0	+5.2 +0.0	-27.1 +0.0	+0.0	35.4	46.0	-10.6	Vert
27	266.717M	46.6	+12.8 +0.0 +0.0	+0.3 +0.0	+2.9 +0.0	-27.8 +0.0	+0.0	34.8	46.0	-11.2	Horiz
28	544.042M	38.5	+19.0 +0.0 +0.0	+0.4 +0.0	+4.3 +0.0	-27.6 +0.0	+0.0	34.6	46.0	-11.4	Horiz
29	225.000M	48.7	+10.9 +0.0 +0.0	+0.3 +0.0	+2.6 +0.0	-27.9 +0.0	+0.0	34.6	46.0	-11.4	Horiz
30	480.017M	40.1	+17.8 +0.0 +0.0	+0.4 +0.0	+4.0 +0.0	-27.8 +0.0	+0.0	34.5	46.0	-11.5	Vert
31	120.000M	46.3	+11.6 +0.0 +0.0	+0.2 +0.0	+1.8 +0.0	-27.9 +0.0	+0.0	32.0	43.5	-11.5	Horiz
32	324.933M	44.6	+14.0 +0.0 +0.0	+0.3 +0.0	+3.2 +0.0	-27.8 +0.0	+0.0	34.3	46.0	-11.7	Vert
33	325.000M	44.5	+14.0 +0.0 +0.0	+0.3 +0.0	+3.2 +0.0	-27.8 +0.0	+0.0	34.2	46.0	-11.8	Horiz
34	9848.000M Ave	31.7	+0.0 +8.4 +0.3	+0.0 -36.7	+0.0 +0.7	+0.0 +37.8	+0.0	42.2	54.0 802.11g, 2462MHz	-11.8	Vert
^	9848.000M	41.0	+0.0 +8.4 +0.3	+0.0 -36.7	+0.0 +0.7	+0.0 +37.8	+0.0	51.5	54.0 802.11g, 2462MHz	-2.5	Vert
^	9847.967M	39.3	+0.0 +8.4 +0.3	+0.0 -36.7	+0.0 +0.7	+0.0 +37.8	+0.0	49.8	54.0 802.11b, 2462MHz	-4.2	Vert
37	833.442M	32.4	+22.8 +0.0 +0.0	+0.6 +0.0	+5.4 +0.0	-27.1 +0.0	+0.0	34.1	46.0	-11.9	Horiz
38	512.067M	38.7	+18.4 +0.0 +0.0	+0.4 +0.0	+4.2 +0.0	-27.7 +0.0	+0.0	34.0	46.0	-12.0	Vert
39	9847.967M Ave	31.5	+0.0 +8.4 +0.3	+0.0 -36.7	+0.0 +0.7	+0.0 +37.8	+0.0	42.0	54.0 802.11b, 2462MHz	-12.0	Vert
40	120.017M	45.7	+11.6 +0.0 +0.0	+0.2 +0.0	+1.8 +0.0	-27.9 +0.0	+0.0	31.4	43.5	-12.1	Vert

41	533.417M	38.0	+18.8 +0.0 +0.0	+0.4 +0.0	+4.2 +0.0	-27.7 +0.0	+0.0	33.7	46.0	-12.3	Vert
42	199.967M	47.4	+9.1 +0.0 +0.0	+0.3 +0.0	+2.4 +0.0	-28.0 +0.0	+0.0	31.2	43.5	-12.3	Horiz
43	660.025M	34.9	+20.4 +0.0 +0.0	+0.5 +0.0	+4.7 +0.0	-27.2 +0.0	+0.0	33.3	46.0	-12.7	Horiz
44	375.033M	41.7	+15.4 +0.0 +0.0	+0.4 +0.0	+3.5 +0.0	-27.8 +0.0	+0.0	33.2	46.0	-12.8	Vert
45	240.000M	45.8	+12.0 +0.0 +0.0	+0.3 +0.0	+2.7 +0.0	-27.8 +0.0	+0.0	33.0	46.0	-13.0	Horiz
46	225.017M	47.0	+10.9 +0.0 +0.0	+0.3 +0.0	+2.6 +0.0	-27.9 +0.0	+0.0	32.9	46.0	-13.1	Vert
47	266.700M	44.6	+12.8 +0.0 +0.0	+0.3 +0.0	+2.9 +0.0	-27.8 +0.0	+0.0	32.8	46.0	-13.2	Vert
48	520.025M	36.7	+18.6 +0.0 +0.0	+0.4 +0.0	+4.2 +0.0	-27.7 +0.0	+0.0	32.2	46.0	-13.8	Horiz
49	9748.000M Ave	29.7	+0.0 +8.4 +0.3	+0.0 -36.6	+0.0 +0.7	+0.0 +37.7	+0.0	40.2	54.0 802.11b, 2437MHz	-13.8	Vert
50	9747.975M Ave	29.3	+0.0 +8.4 +0.3	+0.0 -36.6	+0.0 +0.7	+0.0 +37.7	+0.0	39.8	54.0 802.11g, 2437MHz	-14.2	Vert
^	9748.000M	39.6	+0.0 +8.4 +0.3	+0.0 -36.6	+0.0 +0.7	+0.0 +37.7	+0.0	50.1	54.0 802.11b, 2437MHz	-3.9	Vert
^	9747.975M	38.3	+0.0 +8.4 +0.3	+0.0 -36.6	+0.0 +0.7	+0.0 +37.7	+0.0	48.8	54.0 802.11g, 2437MHz	-5.2	Vert
53	195.000M	45.4	+9.1 +0.0 +0.0	+0.3 +0.0	+2.4 +0.0	-28.0 +0.0	+0.0	29.2	43.5	-14.3	Horiz
54	9648.136M Ave	29.1	+0.0 +8.4 +0.4	+0.0 -36.5	+0.0 +0.7	+0.0 +37.6	+0.0	39.7	54.0 802.11b, 2412MHz	-14.3	Vert
^	9648.135M	39.5	+0.0 +8.4 +0.4	+0.0 -36.5	+0.0 +0.7	+0.0 +37.6	+0.0	50.1	54.0 802.11b, 2412MHz	-3.9	Vert
56	511.992M	36.5	+18.4 +0.0 +0.0	+0.4 +0.0	+4.1 +0.0	-27.8 +0.0	+0.0	31.6	46.0	-14.4	Horiz
57	208.017M	44.5	+9.7 +0.0 +0.0	+0.3 +0.0	+2.5 +0.0	-28.0 +0.0	+0.0	29.0	43.5	-14.5	Horiz

58	711.167M	32.3	+20.9 +0.0 +0.0	+0.5 +0.0	+4.9 +0.0	-27.2 +0.0	+0.0	31.4	46.0	-14.6	Vert
59	320.017M	41.5	+13.8 +0.0 +0.0	+0.3 +0.0	+3.1 +0.0	-27.8 +0.0	+0.0	30.9	46.0	-15.1	Vert
60	240.000M	43.7	+12.0 +0.0 +0.0	+0.3 +0.0	+2.7 +0.0	-27.8 +0.0	+0.0	30.9	46.0	-15.1	Vert
61	9648.000M Ave	28.1	+0.0 +8.4 +0.4	+0.0 -36.5	+0.0 +0.7	+0.0 +37.6	+0.0	38.7	54.0 802.11g, 2412MHz	-15.3	Vert
^	9648.000M	39.0	+0.0 +8.4 +0.4	+0.0 -36.5	+0.0 +0.7	+0.0 +37.6	+0.0	49.6	54.0 802.11g, 2412MHz	-4.4	Vert
63	533.325M	34.8	+18.8 +0.0 +0.0	+0.4 +0.0	+4.2 +0.0	-27.7 +0.0	+0.0	30.5	46.0	-15.5	Horiz
64	440.000M	37.2	+16.9 +0.0 +0.0	+0.3 +0.0	+3.8 +0.0	-27.8 +0.0	+0.0	30.4	46.0	-15.6	Vert
65	384.017M	38.3	+15.6 +0.0 +0.0	+0.4 +0.0	+3.5 +0.0	-27.8 +0.0	+0.0	30.0	46.0	-16.0	Horiz
66	975.100M	33.9	+24.4 +0.0 +0.0	+0.7 +0.0	+6.1 +0.0	-27.3 +0.0	+0.0	37.8	54.0	-16.2	Vert
67	320.000M	40.4	+13.8 +0.0 +0.0	+0.3 +0.0	+3.1 +0.0	-27.8 +0.0	+0.0	29.8	46.0	-16.2	Horiz
68	280.000M	41.2	+13.0 +0.0 +0.0	+0.3 +0.0	+2.9 +0.0	-27.8 +0.0	+0.0	29.6	46.0	-16.4	Horiz
69	439.975M	36.2	+16.9 +0.0 +0.0	+0.3 +0.0	+3.8 +0.0	-27.8 +0.0	+0.0	29.4	46.0	-16.6	Horiz
70	350.000M	38.7	+14.7 +0.0 +0.0	+0.3 +0.0	+3.3 +0.0	-27.8 +0.0	+0.0	29.2	46.0	-16.8	Vert
71	960.067M	33.5	+24.2 +0.0 +0.0	+0.7 +0.0	+6.0 +0.0	-27.2 +0.0	+0.0	37.2	54.0	-16.8	Horiz
72	384.000M	37.4	+15.6 +0.0 +0.0	+0.4 +0.0	+3.5 +0.0	-27.8 +0.0	+0.0	29.1	46.0	-16.9	Vert
73	150.000M	40.7	+11.2 +0.0 +0.0	+0.3 +0.0	+2.0 +0.0	-27.9 +0.0	+0.0	26.3	43.5	-17.2	Horiz
74	275.017M	40.3	+12.9 +0.0 +0.0	+0.3 +0.0	+2.9 +0.0	-27.8 +0.0	+0.0	28.6	46.0	-17.4	Vert

75	350.000M	38.1	+14.7 +0.0 +0.0	+0.3 +0.0	+3.3 +0.0	-27.8 +0.0	+0.0	28.6	46.0	-17.4	Horiz
76	448.008M	34.6	+17.1 +0.0 +0.0	+0.3 +0.0	+3.8 +0.0	-27.8 +0.0	+0.0	28.0	46.0	-18.0	Horiz
77	416.025M	35.3	+16.4 +0.0 +0.0	+0.4 +0.0	+3.7 +0.0	-27.8 +0.0	+0.0	28.0	46.0	-18.0	Horiz
78	194.900M	41.6	+9.1 +0.0 +0.0	+0.3 +0.0	+2.4 +0.0	-28.0 +0.0	+0.0	25.4	43.5	-18.1	Vert
79	960.070M	32.0	+24.2 +0.0 +0.0	+0.7 +0.0	+6.0 +0.0	-27.2 +0.0	+0.0	35.7	54.0	-18.3	Vert
80	408.008M	34.2	+16.2 +0.0 +0.0	+0.4 +0.0	+3.6 +0.0	-27.8 +0.0	+0.0	26.6	46.0	-19.4	Horiz
81	433.417M	33.3	+16.8 +0.0 +0.0	+0.3 +0.0	+3.7 +0.0	-27.8 +0.0	+0.0	26.3	46.0	-19.7	Vert
82	280.050M	35.8	+13.0 +0.0 +0.0	+0.3 +0.0	+2.9 +0.0	-27.8 +0.0	+0.0	24.2	46.0	-21.8	Vert

**FCC 15.247(e) POWER SPECTRAL DENSITY**

**Test Equipment**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

**Test Conditions**

The EUT is placed on the test bench. The device is set in continuous transmit mode, the RF output power is measure at the antenna port in accordance with KDB Publication No. 558074, PSD option 2.

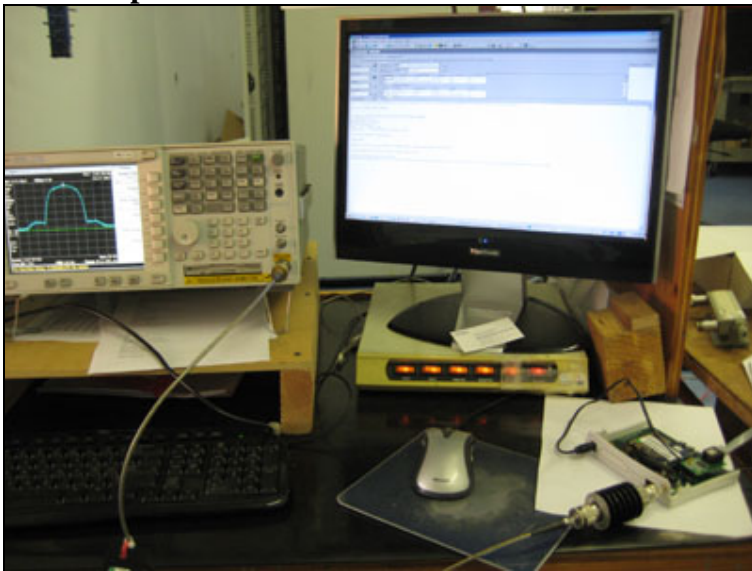
Two plots at each frequency point were captured and displayed, with the second plot presenting detailed peak reading.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz  
 Ch 1, 6, 11  
 Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)  
 Firmware Power setting: 127  
 21°C, 55% relative humidity.

Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to the antenna cable.

**Test Setup Photos**



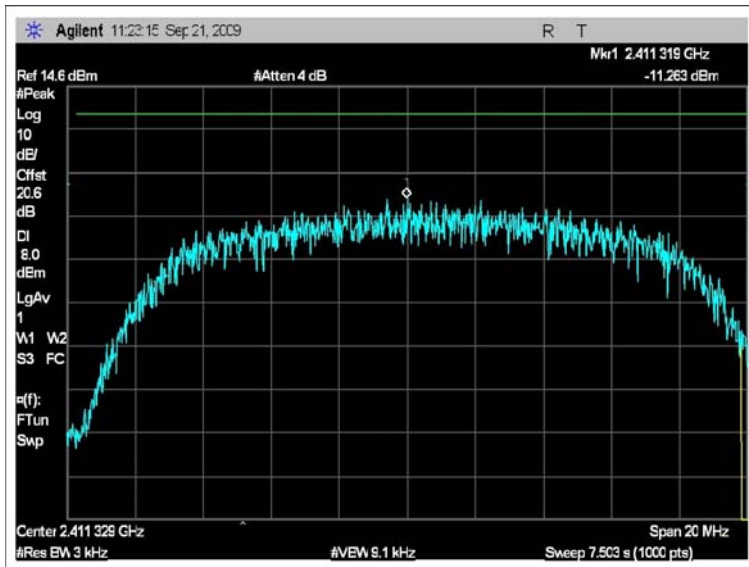


Plots

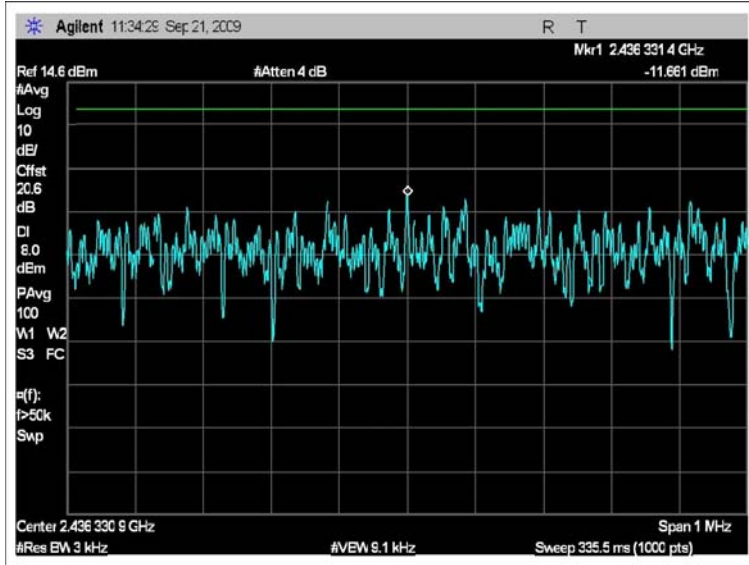
FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2412MHz



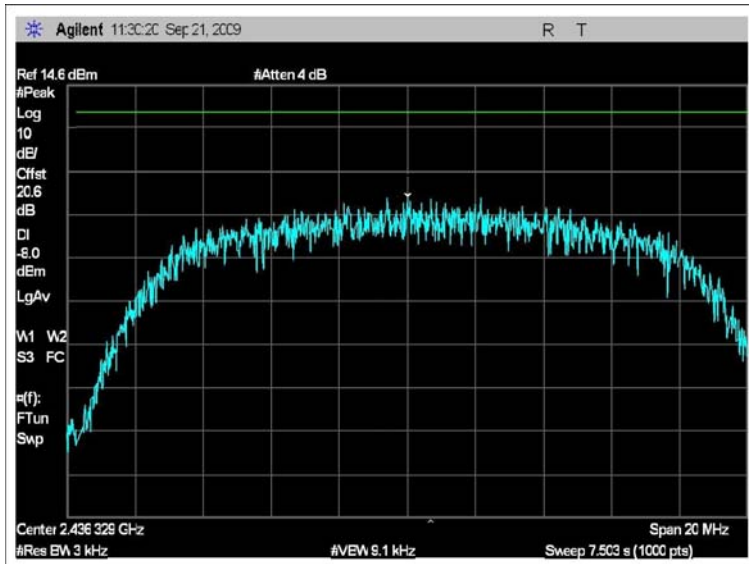
FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2412MHz RAW



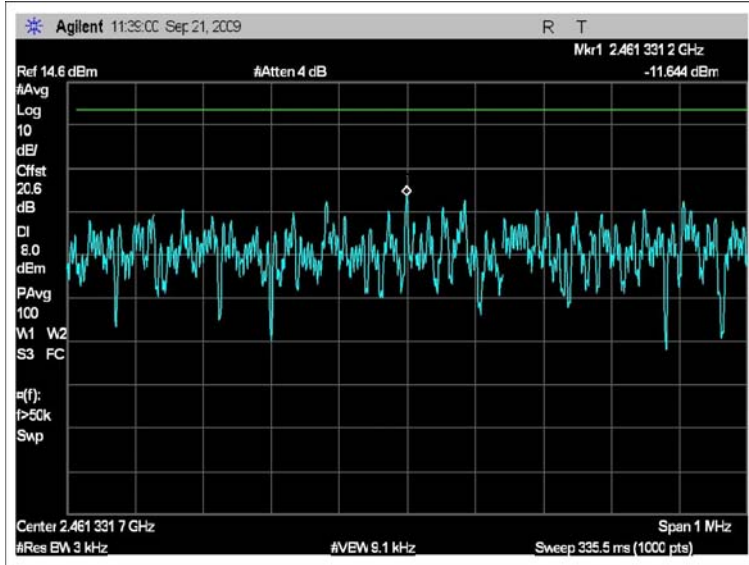
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2437MHz**



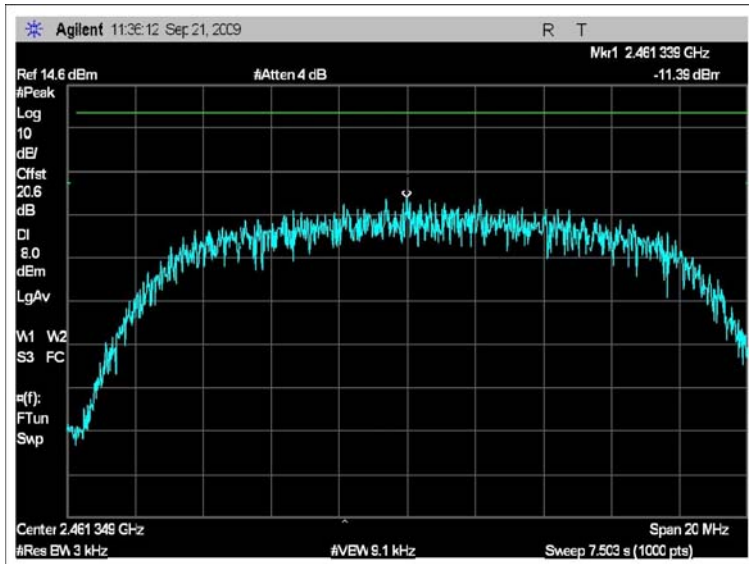
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2437MHz RAW**



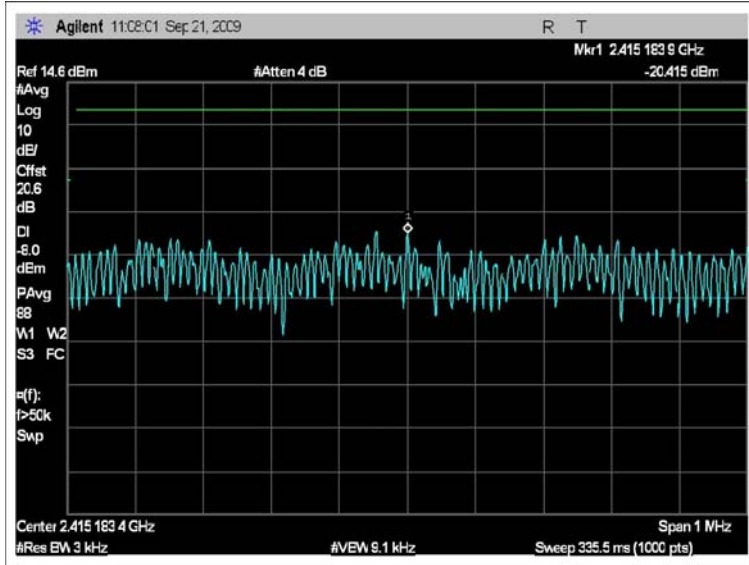
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2462MHz**



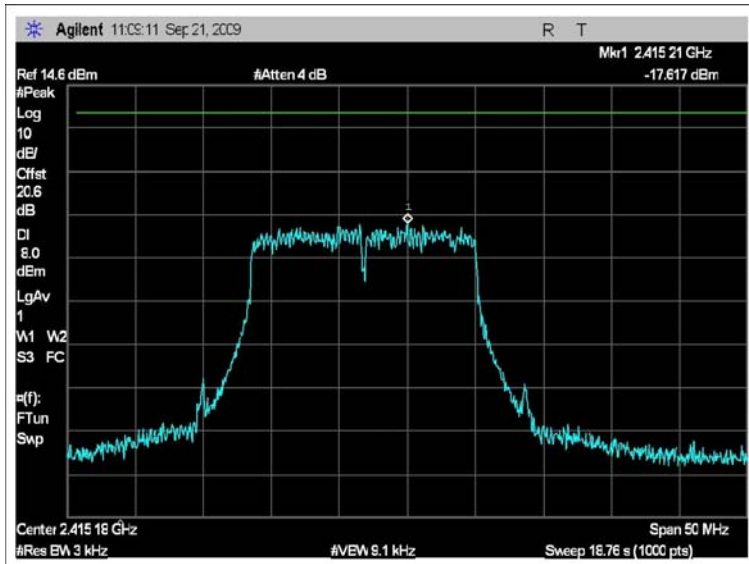
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11b 2462MHz RAW**



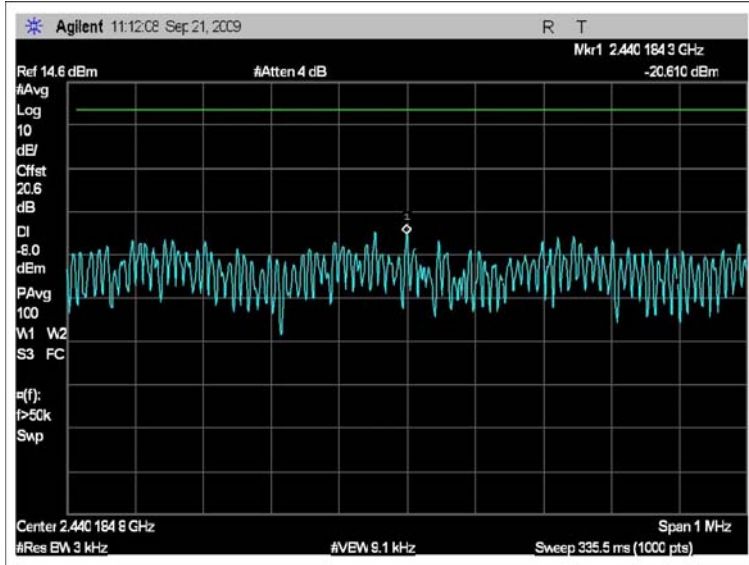
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2412MHz**



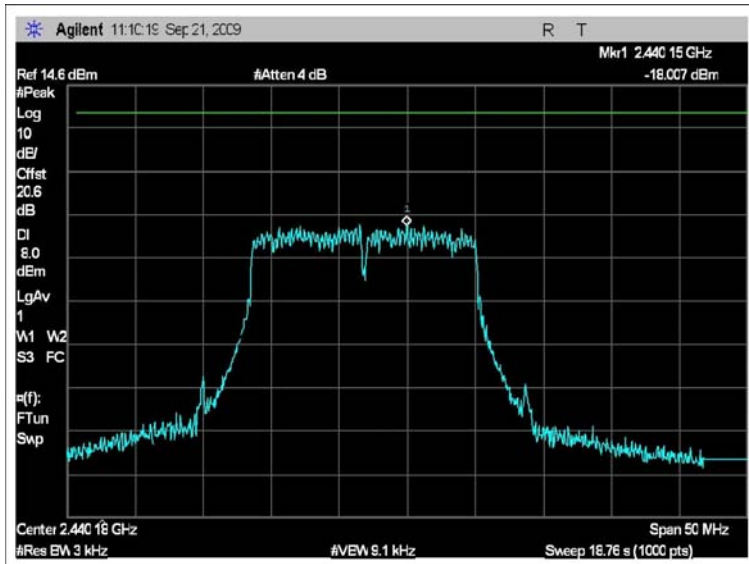
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2412MHz RAW**



**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2437MHz**



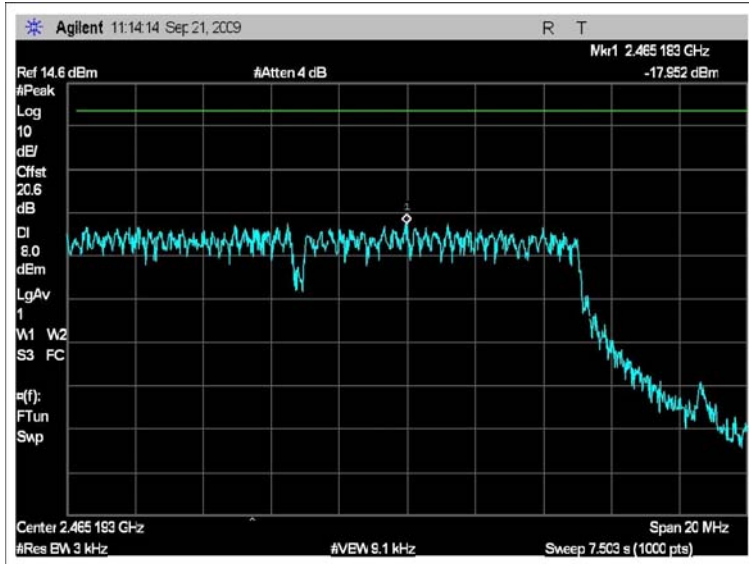
**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2437MHz RAW**



**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2462MHz**



**FCC 15.247(d) POWER SPECTRAL DENSITY- 802.11g 2462MHz RAW**



**BANDEDGE**

**Test Equipment**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
18-26GHz Horn	942126-003	11/12/2008	11/12/2010	01413
2'-40GHz cable	NA	09/14/2009	09/14/2011	P02947

**Test Conditions**

The EUT is placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The ethernet port is connected to remote laptop computer via a support ethernet hub.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz

Ch 1, 6, 11

Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)

Firmware Power setting: 127

Power :( 802.11b) 18dBm 0.0631 watt, (802.11 g) 15.8dBm, 0.0380W

Antenna Gain: 1.5dBi @2.5GHz

The antenna is orientated in upright position.

21°C, 55% relative humidity.

**Test Setup Photos**



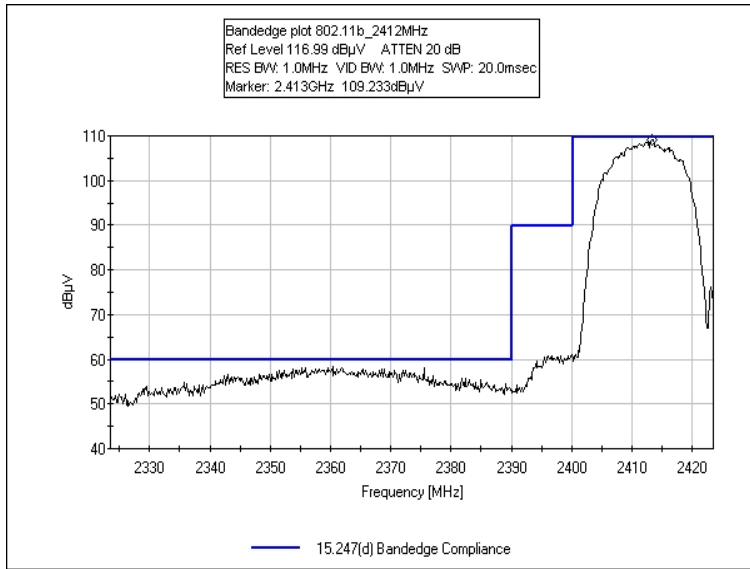




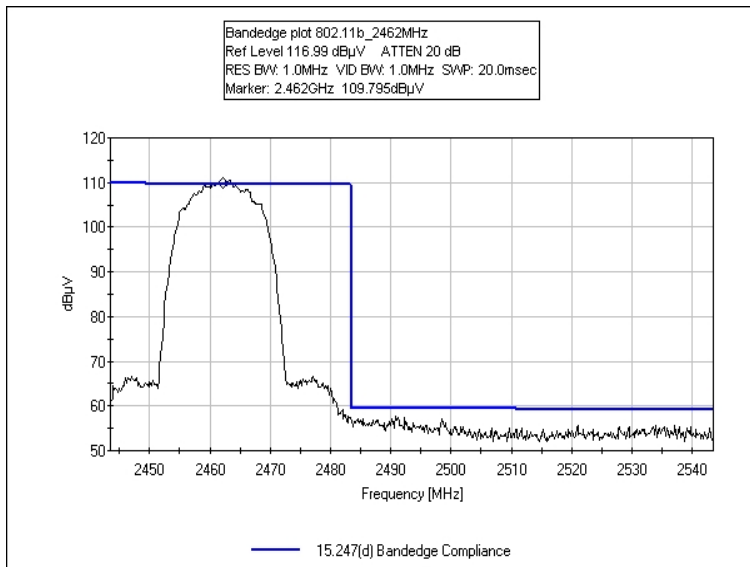


**Plots**

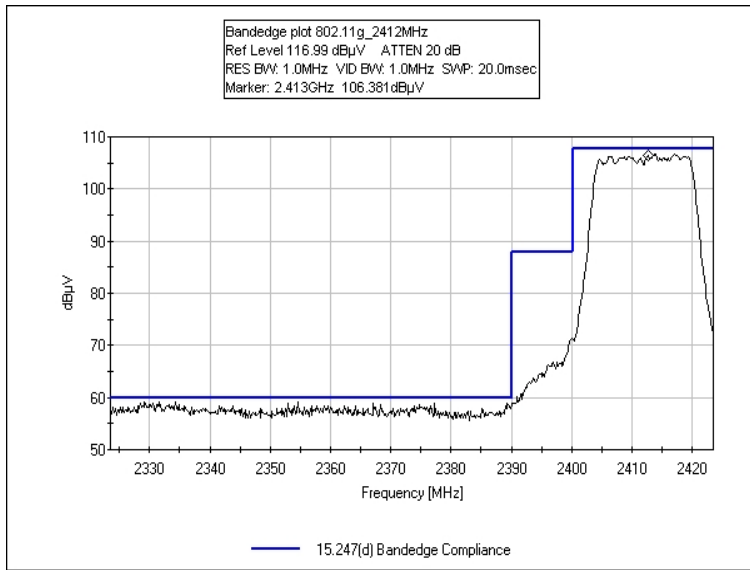
**BANDEDGE 802.11b 2412MHz**



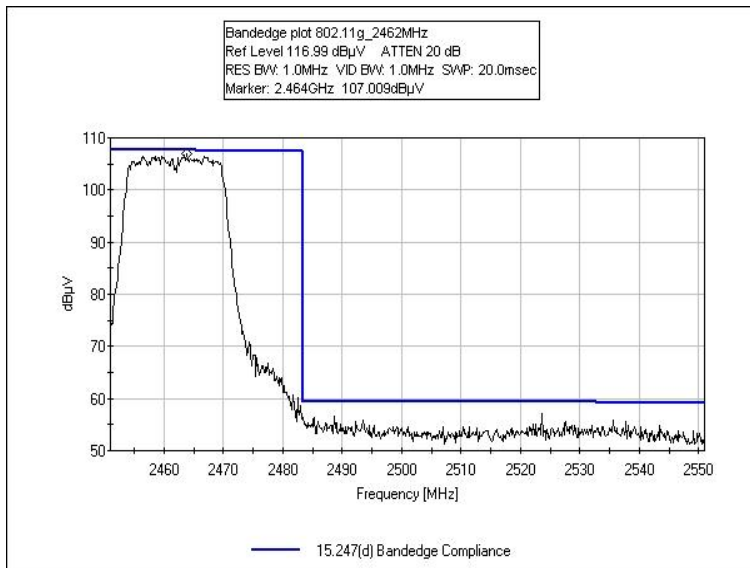
**BANDEDGE 802.11b 2462MHz**



### BANDEDGE 802.11g 2412MHz



### BANDEDGE 802.11g 2462MHz



## RSS-210 99% BANDWIDTH

### Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

### Test Conditions

The EUT is placed on the test bench. The device is set in continuous transmit mode, the RF signal is measured at the antenna port.

Frequency: 2.412- 2462MHz

Tx Frequency: 2412 MHz, 2437MHz, 2462MHz

Ch 1, 6, 11

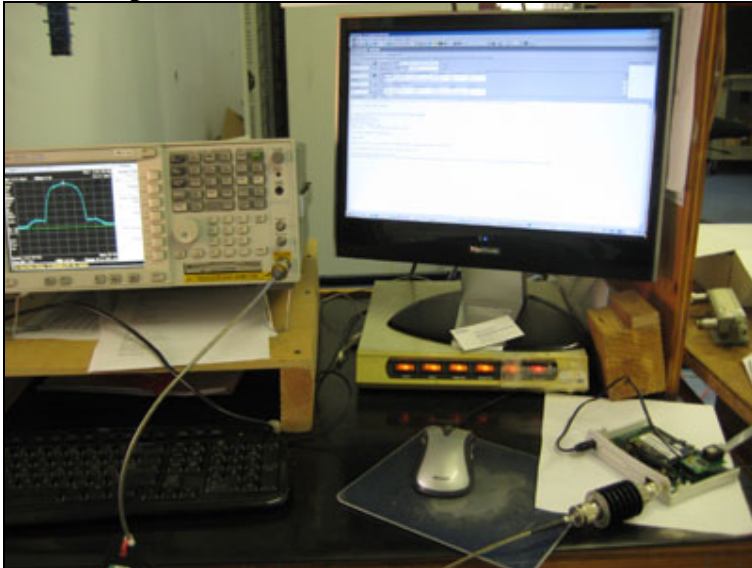
Modulation: 802.11 b (11 Mbps), 802.11 g ( 54Mbps)

Firmware Power setting: 127

21°C, 55% relative humidity.

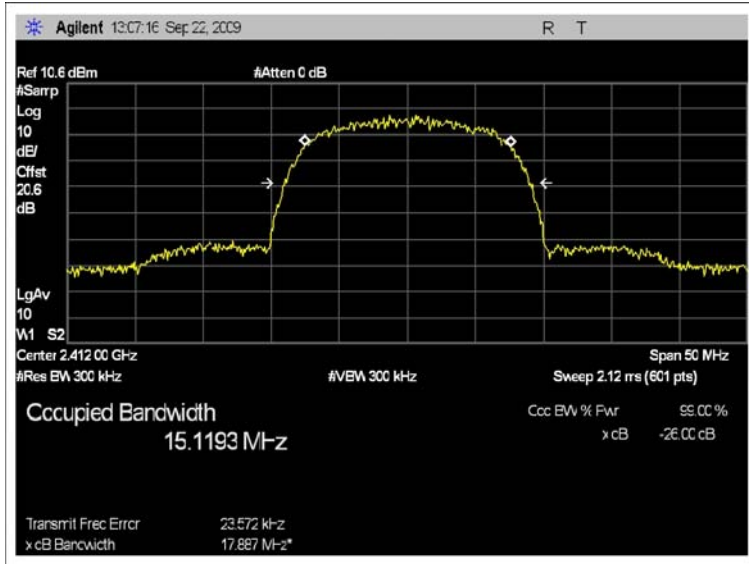
Modification: 30 pF shunt capacitors added to the ethernet traces. Two ferrite beads added to the antenna cable.

### Test Setup Photos

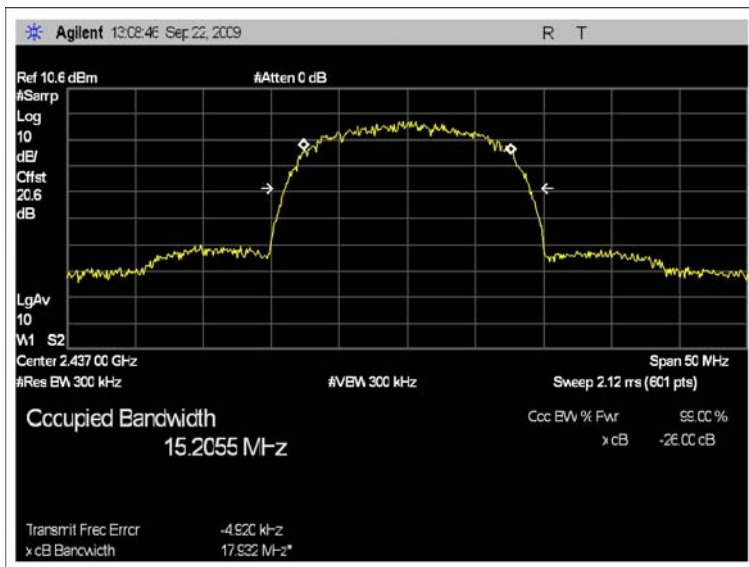


Plots

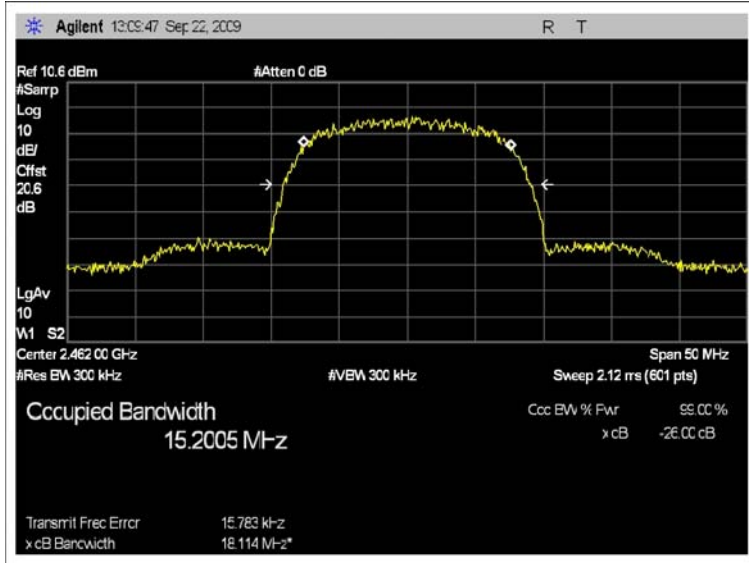
**RSS-210 99% BANDWIDTH = 15.1MHz - 802.11b 2412MHz**



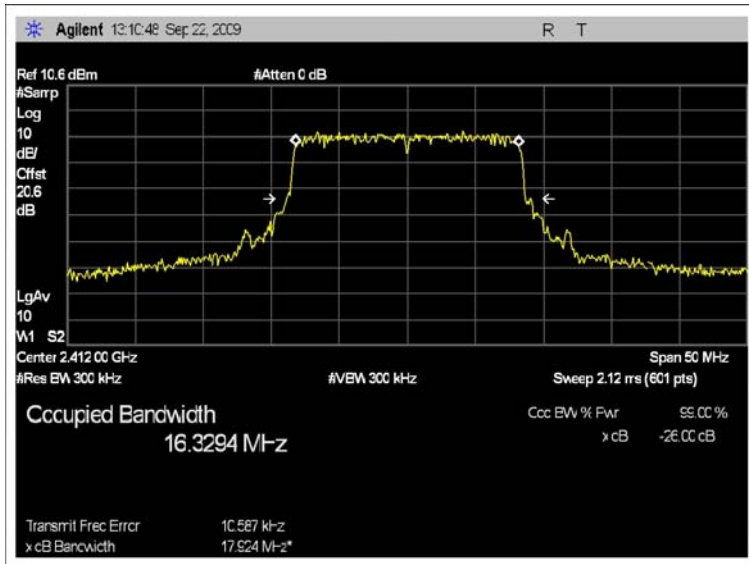
**RSS-210 99% BANDWIDTH = 15.2MHz - 802.11b 2437MHz**



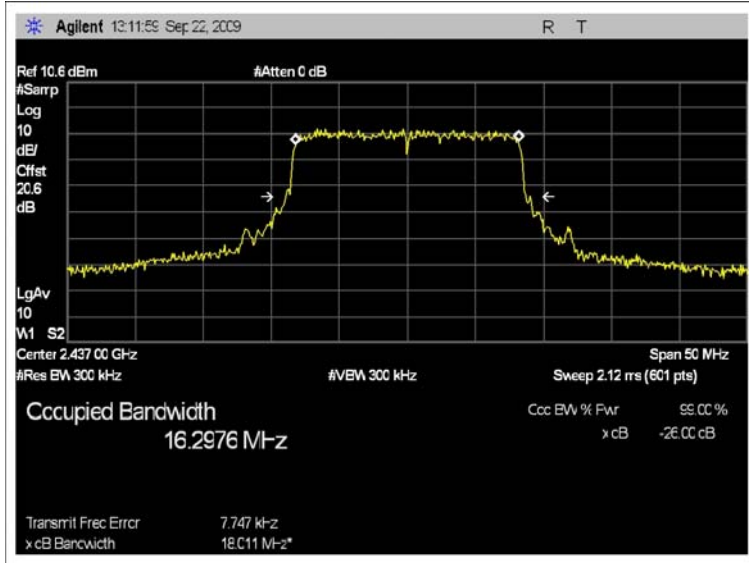
RSS-210 99% BANDWIDTH = 15.2MHz - 802.11b 2462MHz



RSS-210 99% BANDWIDTH = 16.3MHz - 802.11g 2412MHz\



RSS-210 99% BANDWIDTH = 16.3MHz - 802.11g 2437MHz



RSS-210 99% BANDWIDTH = 16.4MHz - 802.11g 2462MHz

