

# Silex Technology America, Inc.

ADDENDUM TEST REPORT TO 90303-10

Wireless 802.11a/b/g SD Card Radio, SX-SDCAG

Tested To The Following Standards:

FCC PART 15 SUBPART E SECTION 15.407 & RSS-210 ISSUE 7

Report No.: 90303-10A

Date of issue: March 19, 2010



TESTING  
CERT #803.01, 803.02,  
803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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## ADMINISTRATIVE INFORMATION

### Test Report Information

**REPORT PREPARED FOR:**

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**REPORT PREPARED BY:**

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REPRESENTATIVE: Ron Tozaki  
Customer Reference Number: 3532

Project Number: 90303

**DATE OF EQUIPMENT RECEIPT:**

January 14, 2010

**DATE(S) OF TESTING:**

January 14 – February 4, 2010

### Revision History

**Original Date of Issue:** February 9, 2010

**Addendum A:** To correct an error in the frequency range tested for sequence 53 for 15.407(b)(1) and 15.407(b)(7)/15.205. The frequency range was 9kHz – 5GHz and it should have been 9kHz – 40GHz. In addition, this addendum corrects an error in section 15.31(m) stating the EUT operates on a single channel. See revised section 15.31(m) for channel information.

### Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



**Steve Behm**  
*Director of Quality Assurance & Engineering Services*  
CKC Laboratories, Inc.

## Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):  
CKC Laboratories, Inc.  
110 Olinda Place  
Brea, CA 92823

## Site Registration & Accreditation Information

Location	JAPAN	CANADA	FCC
Brea A	R-301, C-314 & T-1572	3082D-1	90473

## SUMMARY OF RESULTS

### Standard / Specification: FCC Part 15 15.407

Description	Test Procedure/Method	Results
Voltage Variations	15.31(e)	Pass
RF Output Power (5.15-5.25 GHz)	FCC 15.407(a)(1)	Pass
RF Output Power (5.725-5.825GHz)	FCC 15.407(a)(3)	Pass
Peak Power Spectral Density	FCC 15.407(a)(5)	Pass
Peak Excursion	FCC 15.407(a)(6)	Pass
Undesirable Emissions (5.15-5.25 GHz)	FCC 15.407(b)(1)	Pass
Undesirable Emissions (5.725-5.825GHz)	FCC 15.407(b)(4)	Pass
Undesirable Conducted Emissions	FCC 15.407(b)(6)/FCC 15.207	Pass
Undesirable Radiated Emissions	FCC 15.407(b)(6)/FCC15.209	Pass
Undesirable Emissions Limits	FCC 15.407(b)(7)/FCC15.205	Pass
Frequency Stability	FCC 15.407(g)	Pass
Band edge	ITU-R 55/1	Pass
26dB Bandwidth	FCC Public Notice DA 02-2138	Pass
99% Bandwidth	RSS-210 Issue 7/RSS GEN Issue 2	Pass

### Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

## **EQUIPMENT UNDER TEST (EUT)**

### **Wireless 802.11a/b/g SD Card Radio**

Manuf: Silex Technology America, Inc.

Model: SX-SDCAG

Serial: E1

## **PERIPHERAL DEVICES**

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

### **Evaluator Board**

Manuf: Silex Technology America, Inc.

Model: SX-560-6900

Serial: NA

### **Power Supply**

Manuf: Condor

Model: HK-CH13-A05

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

### **Serial Server**

Manuf: Silex Technology America, Inc.

Model: SX-560

Serial: SL004545

## FCC PART 15 SUBPART E SECTION 15.407

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 15E requirements for Unlicensed National Information Infrastructure Devices, Subpart E.

### **Temperature And Humidity During Testing**

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

The relative humidity was between 20% and 75%.

### **15.31(e) Voltage Variations**

15.31(e) The 5V DC supply voltage was varied + - 15 %, no variation in output power was observed.

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

2400-2483.5MHz = channels 1-11

5150 - 5250MHz = channels 36, 40, 44, 48

5725 - 5825MHz = channels 149, 153, 157, 161, 165

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

15.207 Conducted Emissions: 150 kHz – 30 MHz

15.209/15.225/15.247 Radiated Emissions: 9 kHz – 40GHz

### **15.203 Antenna Requirements**

The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules.

### **EUT Operating Frequency**

The EUT was operating at 5.15 - 5.25GHz and 5.725 - 5.825GHz.

**15.407(a)(1) RF OUTPUT POWER 5.15-5.25GHz**

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
Power Supply	988614	10/14/2009	10/14/2010	1438

**Setup**

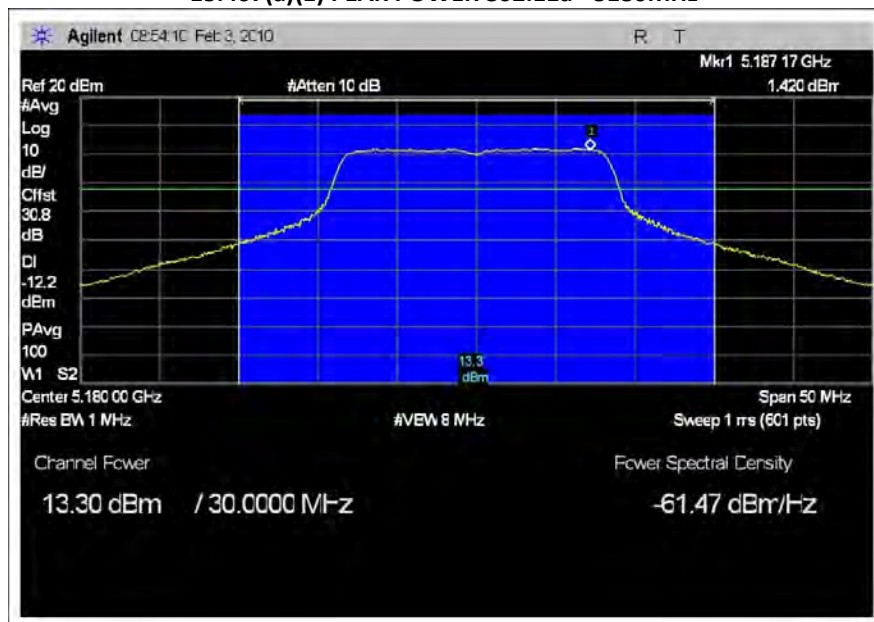
The EUT is placed on the test bench. The device is set in continuous transmit mode, the RF output power is measured at the antenna port in accordance with FCC Public Notice DA 02-2138, August 30, 2002, method 1, using the Band power measurement of a spectrum analyzer.

15.31(e) The 5V DC voltage was varied + - 15 %, no variation in output power was observed.

Modulation	Frequency (MHz)	Channel	Firmware setting	Power (dBm)	Power ( W)
802.11a	5180	36	16	13.3	0.0214
802.11a	5200	40	16	13.2	0.0209
802.11a	5240	48	16	13.3	0.0214

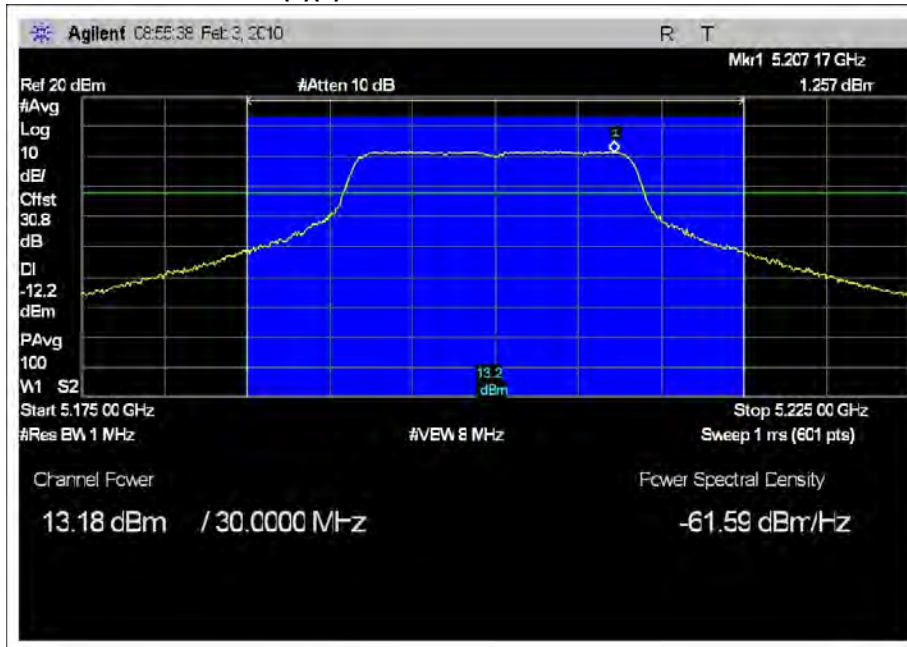
**Test Data Sheets**

**15.407(a)(1) PEAK POWER 802.11a - 5180MHz**

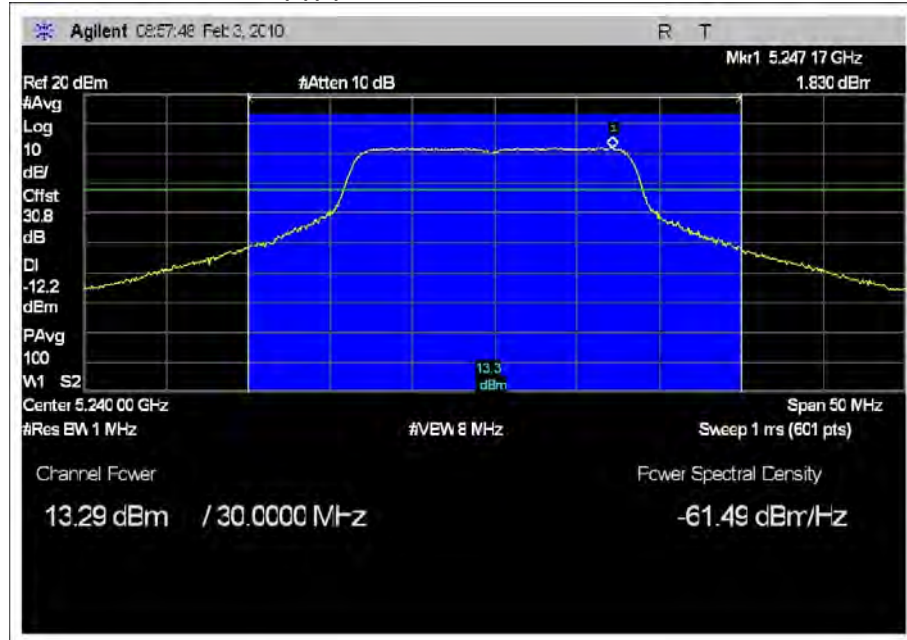




15.407(a)(1) PEAK POWER 802.11a - 5200MHz



15.407(a)(1) PEAK POWER 802.11a - 5240MHz



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

**15.407(a)(3) RF OUTPUT POWER 5.725-5.825GHz**

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
Power Supply	988614	10/14/2009	10/14/2010	1438

**Setup**

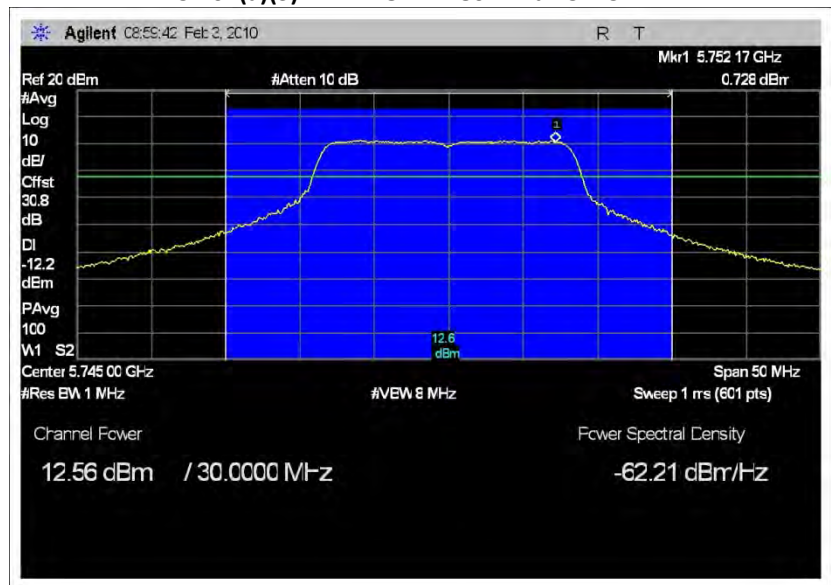
The EUT is placed on the test bench. The device is set in continuous transmit mode, the RF output power is measured at the antenna port in accordance with FCC Public Notice DA 02-2138, August 30, 2002, method 1, using the Band power measurement of a spectrum analyzer.

Modulation	Frequency (MHz)	Channel	Firmware setting	Power (dBm)	Power ( W)
802.11a	5745	149	15	12.6	0.0182
802.11a	5765	153	15	12.6	0.0182
802.11a	5805	161	16	13.0	0.0200

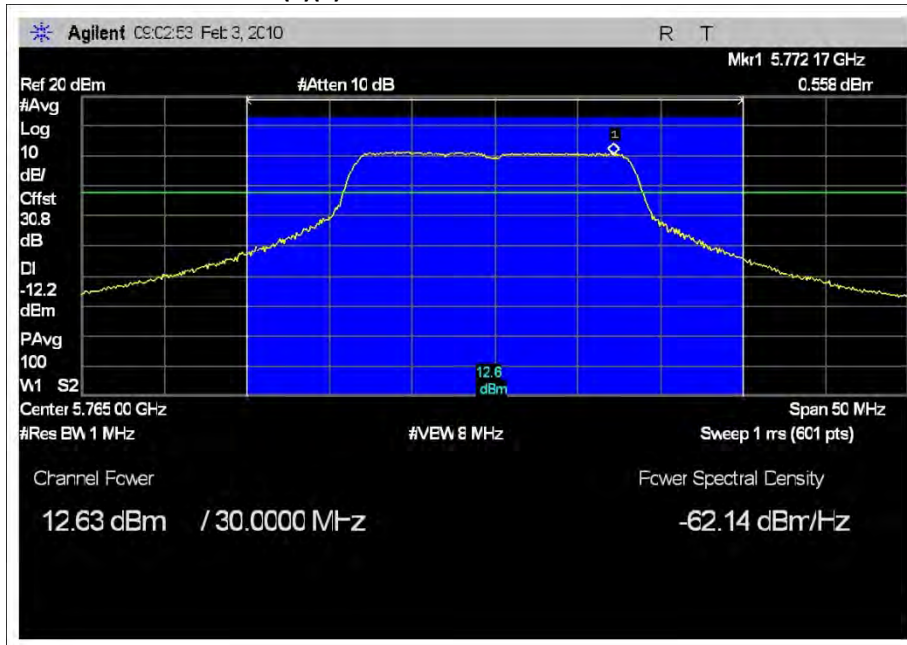
15.31(e) The 5V DC supply voltage was varied + - 15 %, no variation in output power was observed.

**Test Data Sheets**

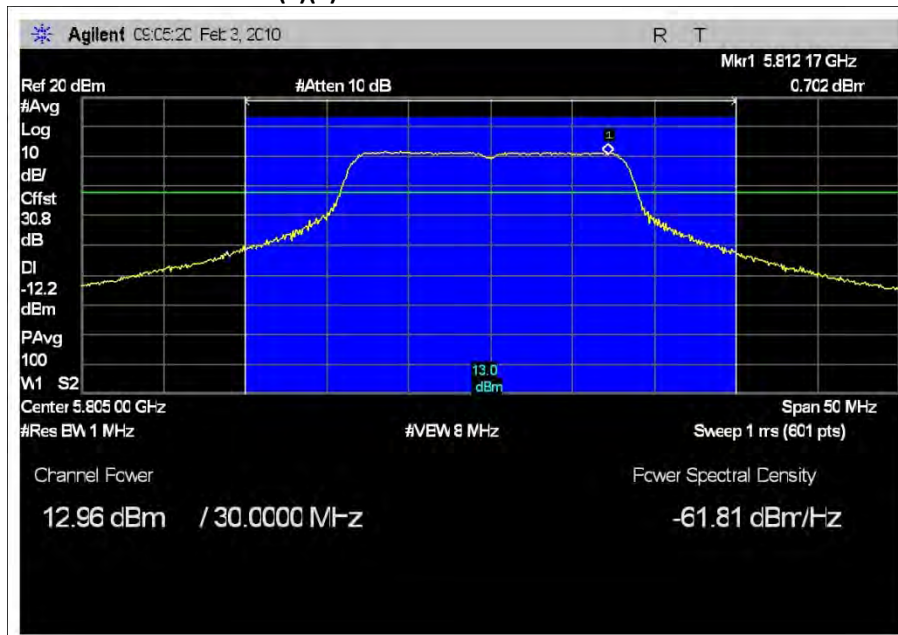
**15.407(a)(3) PEAK POWER 802.11a - 5745MHz**



### 15.407(a)(3) PEAK POWER 802.11a - 5765MHz



### 15.407(a)(3) PEAK POWER 802.11a - 5805MHz



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

## 15.407(a)(5) PEAK POWER SPECTRAL DENSITY

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

### Setup

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 Peak Power Spectral Density measurement method 2, as described in FCC Public Notice DA 02-2138, August 30, 2002, with additional plot using band power function, integrated in 1MHz .

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Ch 36,40,48, 149, 153, 161.

Modulation: 802.11a (54 mbps),

Ch 36,40,48, 149, 153, 161.

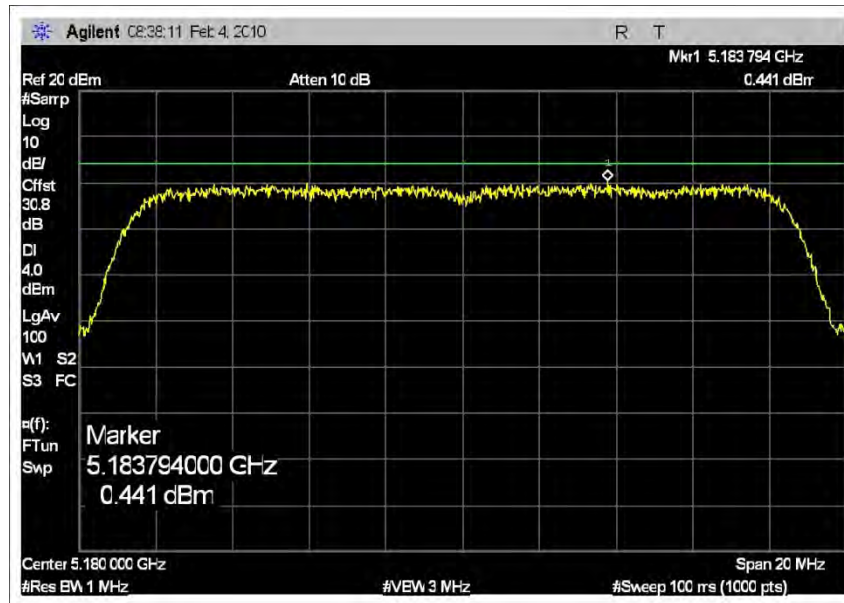
Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

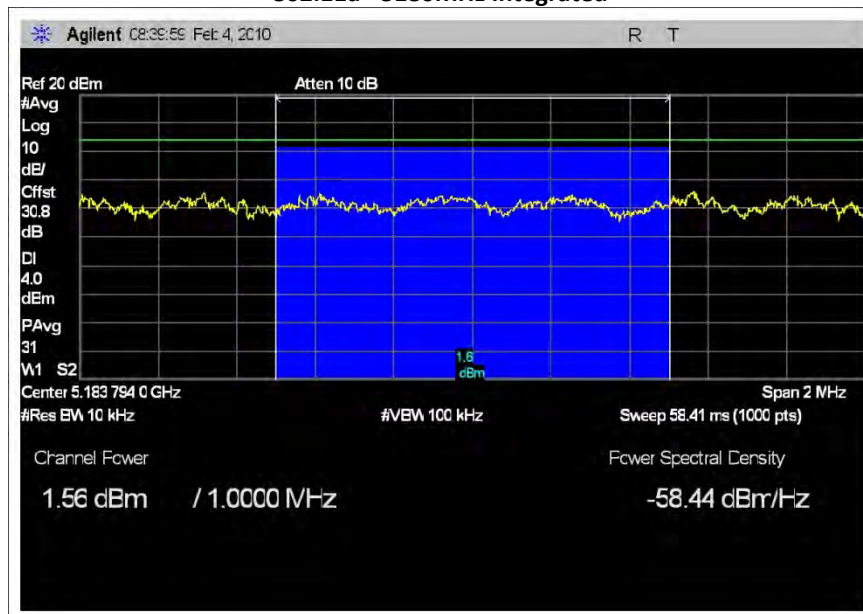
13°C, 58% Relative Humidity

**Test Data Sheets**

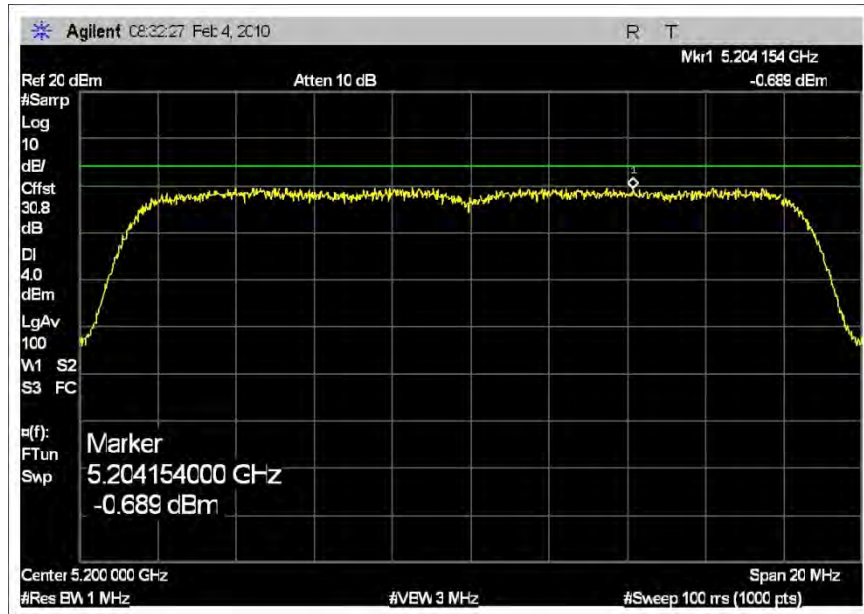
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5180MHz**



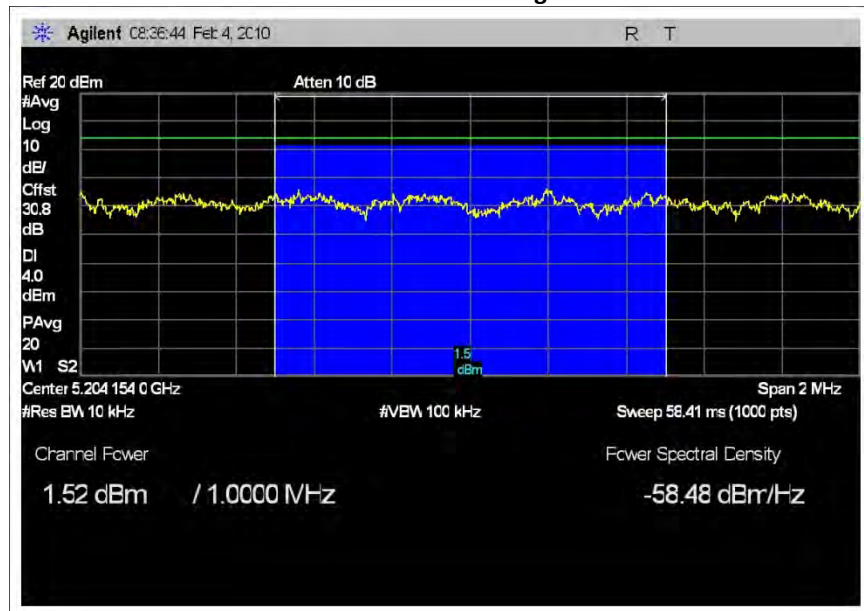
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5180MHz Integrated**



**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5200MHz**

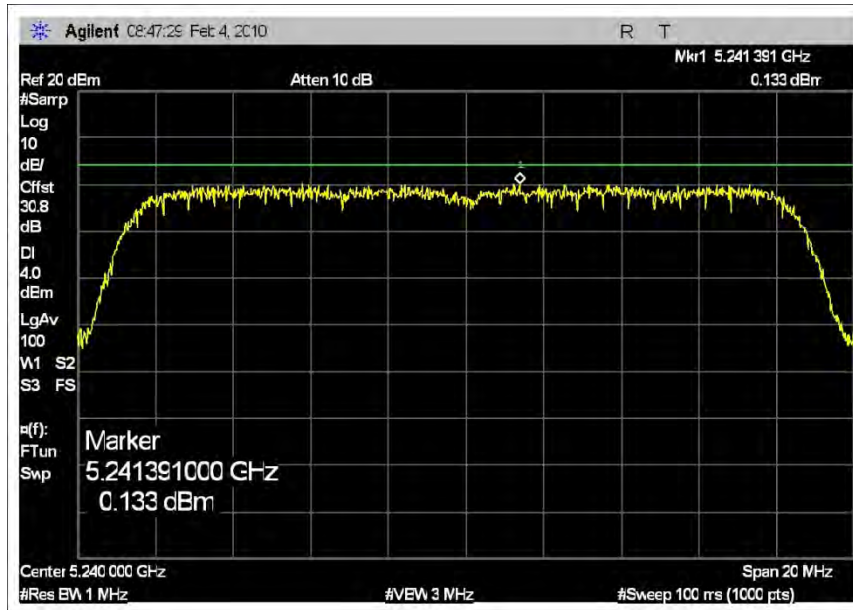


**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5200MHz Integrated**

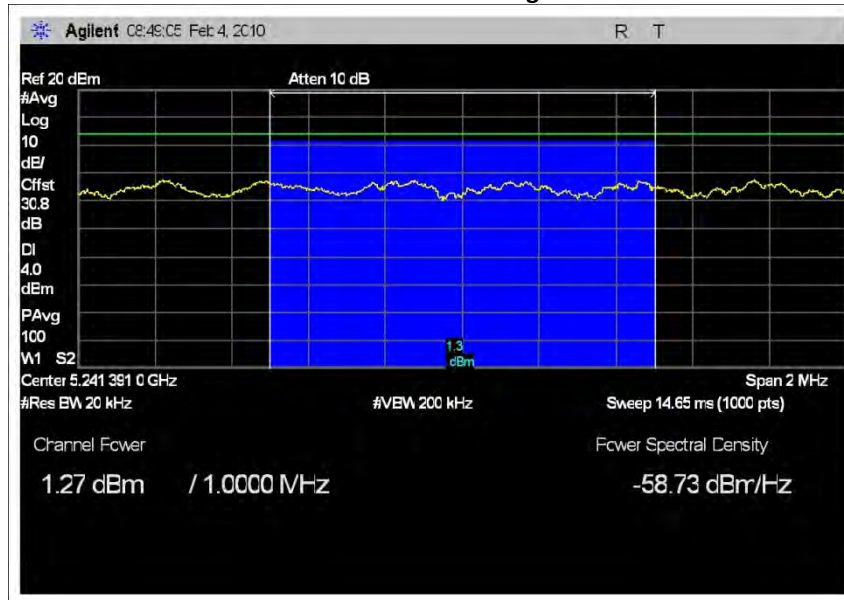




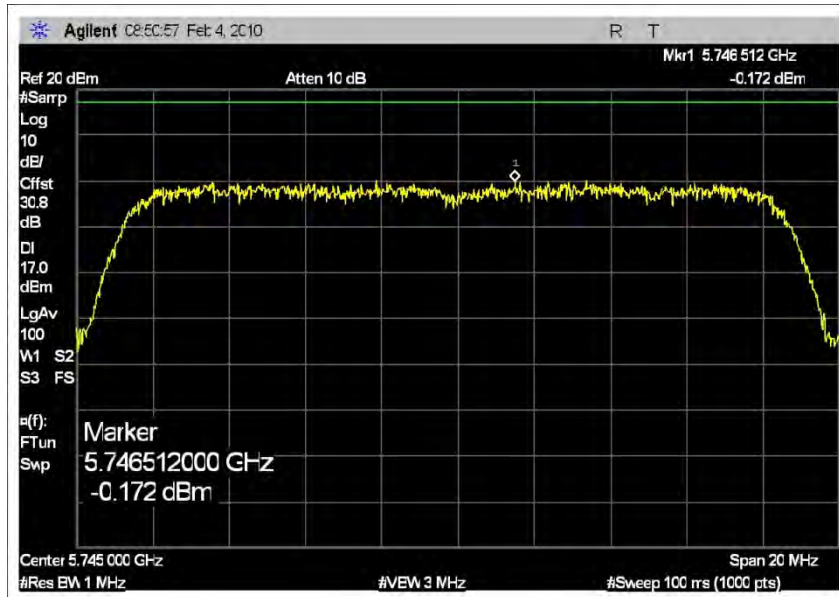
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5240MHz**



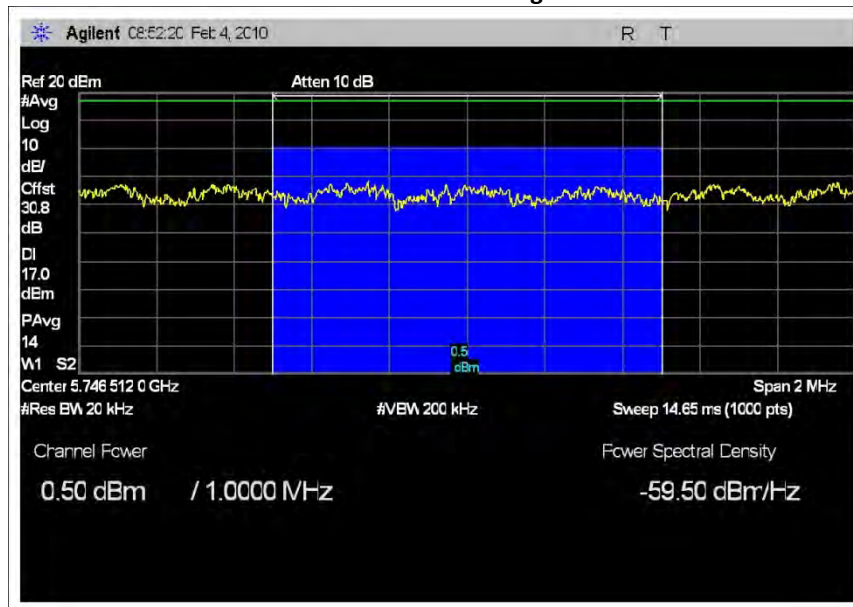
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5240MHz Integrated**



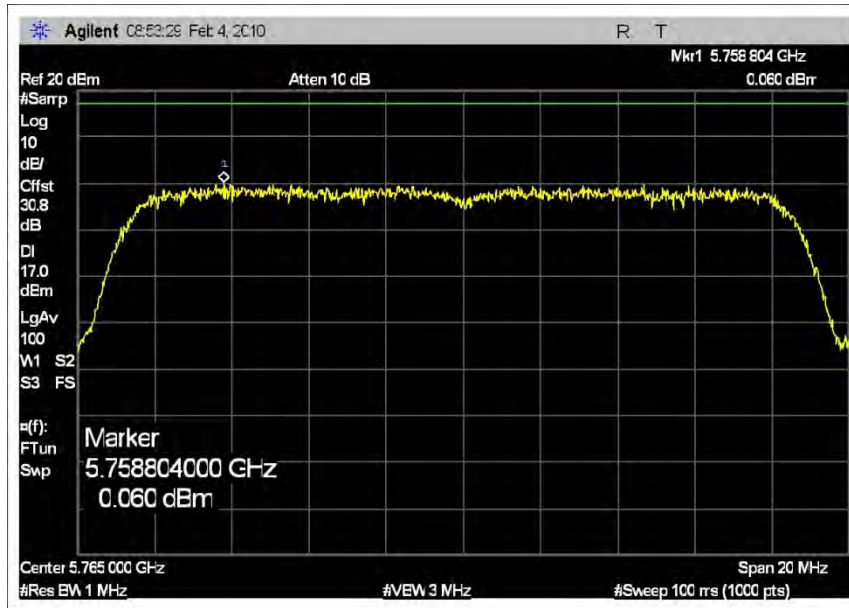
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5745MHz**



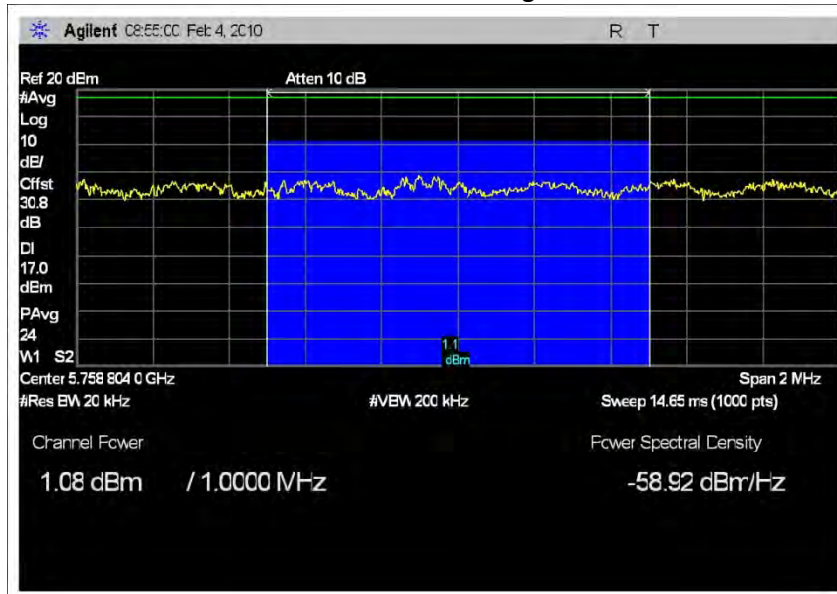
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5745MHz Integrated**



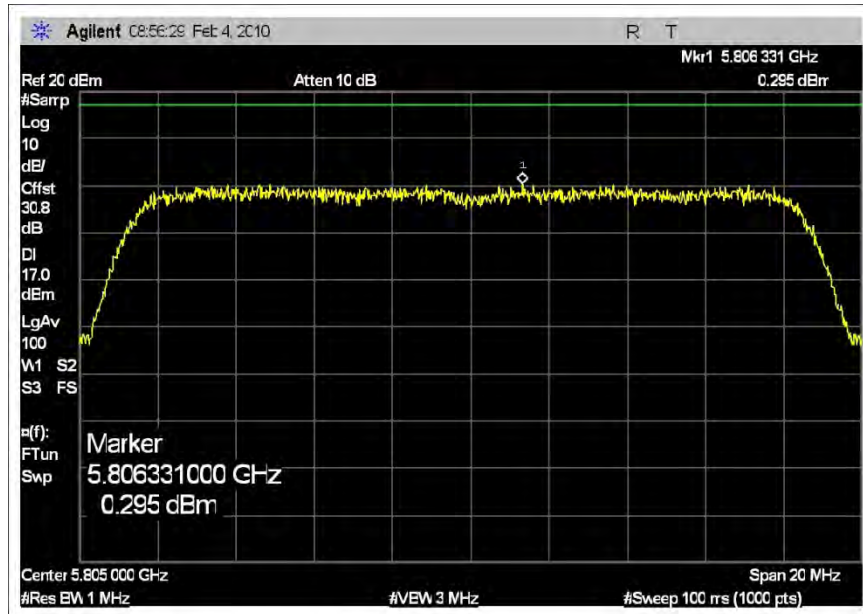
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5765MHz**



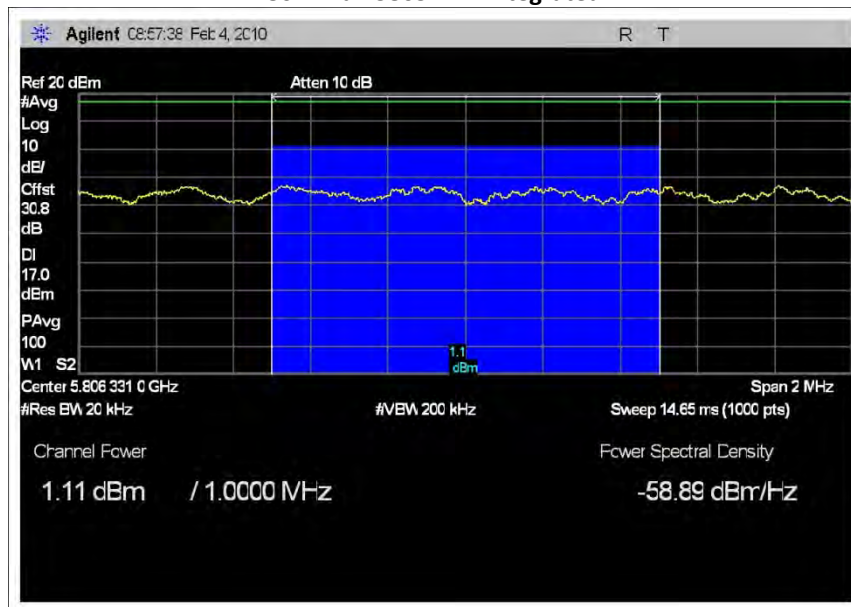
**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5765MHz Integrated**



**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5805MHz**



**15.407(a)(5) PEAK POWER SPECTRAL DENSITY  
802.11a - 5805MHz Integrated**



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

## 15.407(a)(6) PEAK EXCURSION

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

### Setup

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 Peak excursion measurement method as described in FCC Public Notice DA 02-2138, August 30, 2002,

Freq : 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Ch 36,40,48, 149, 153, 161.

Modulation: 802.11a (54 mbps),

Ch 36,40,48, 149, 153, 161.

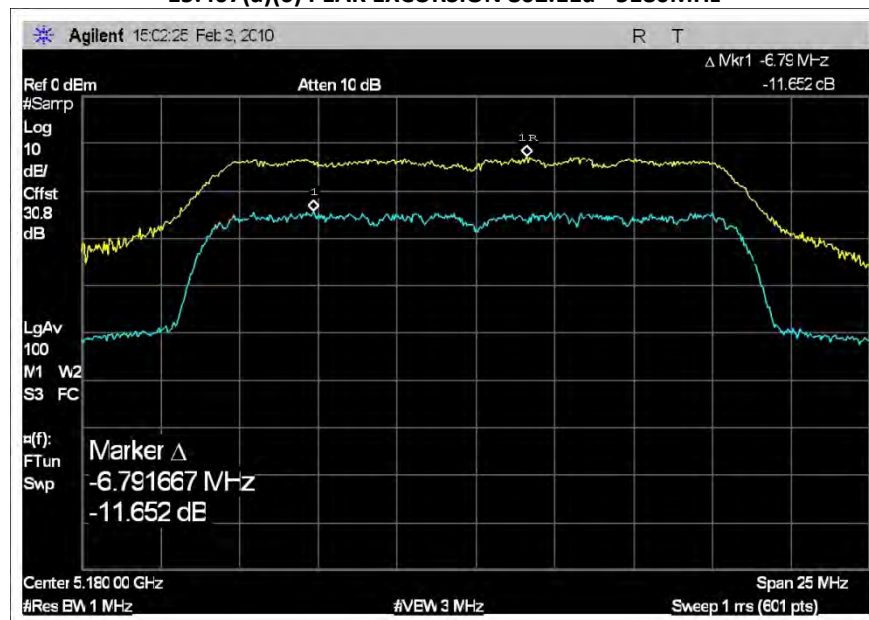
Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W), 13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

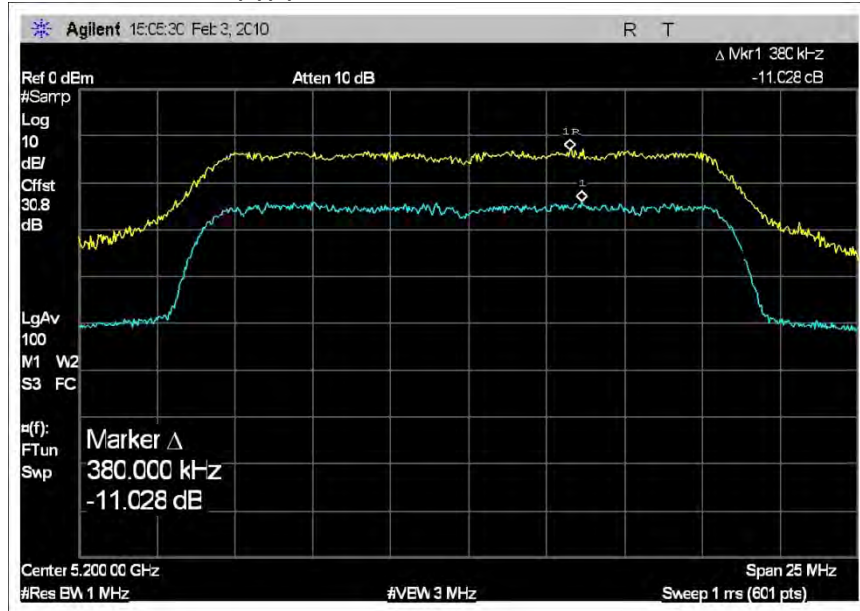
13°C, 58% Relative Humidity

### Test Data Sheets

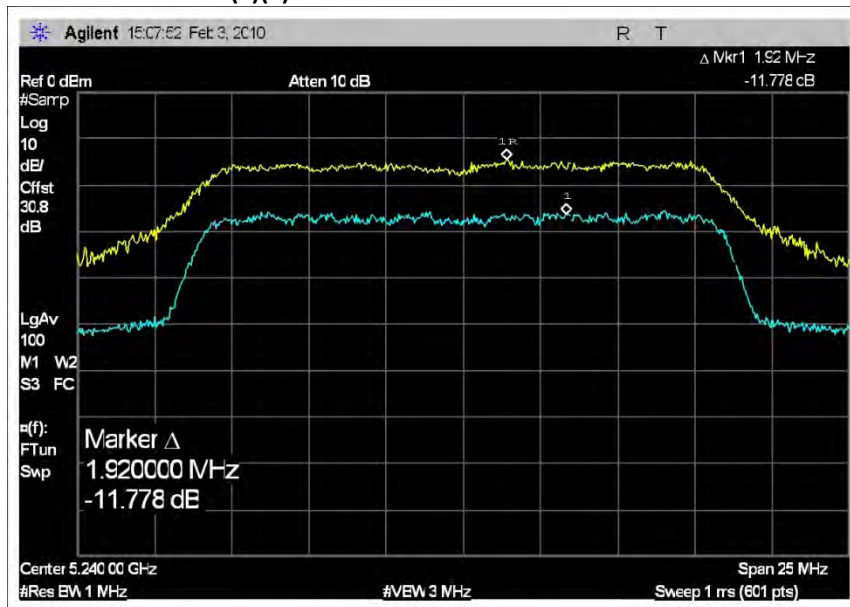
#### 15.407(a)(6) PEAK EXCURSION 802.11a - 5180MHz



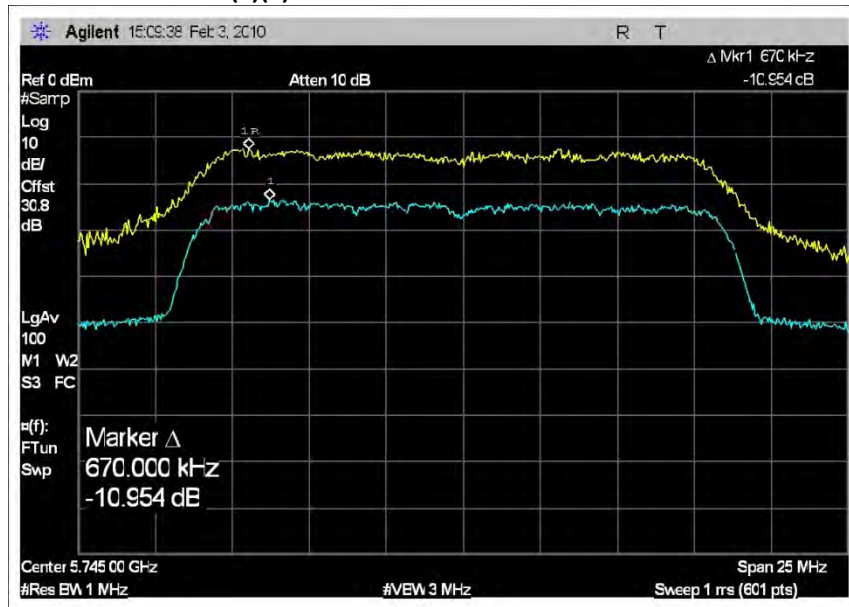
15.407(a)(6) PEAK EXCURSION 802.11a - 5200MHz



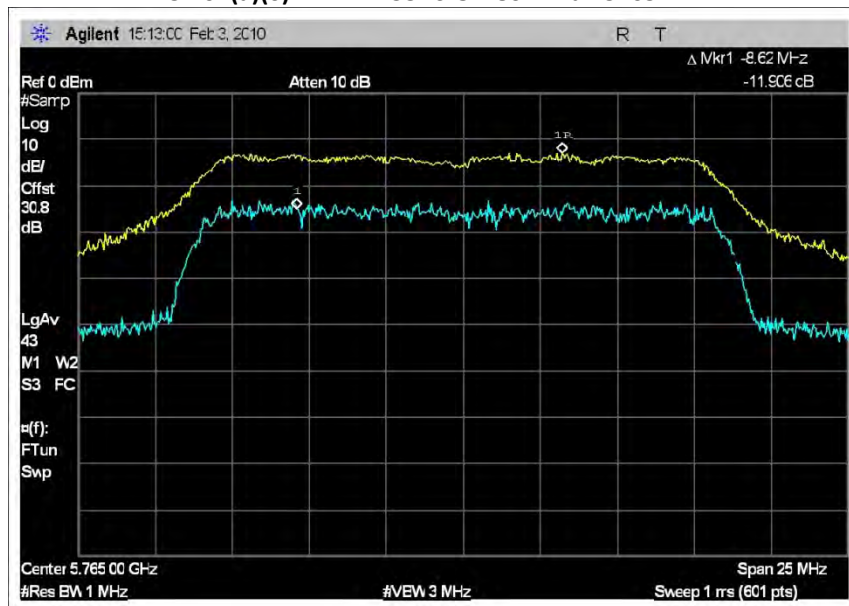
15.407(a)(6) PEAK EXCURSION 802.11a - 5240MHz



15.407(a)(6) PEAK EXCURSION 802.11a - 5745MHz

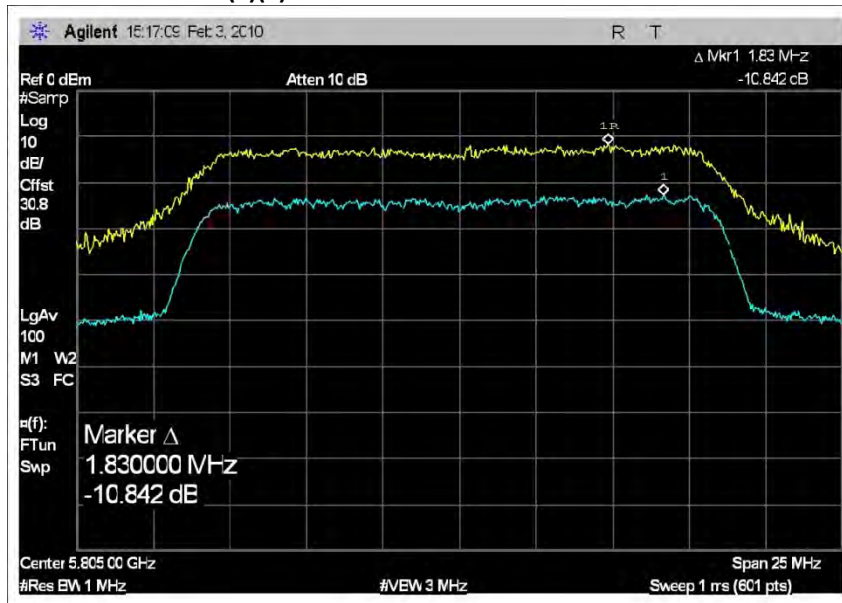


15.407(a)(6) PEAK EXCURSION 802.11a - 5765MHz





**15.407(a)(6) PEAK EXCURSION 802.11a - 5805MHz**



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

## 15.407(b)(1) UNDESIRABLE EMISSIONS IN 5.15-5.25GHz

**Limit Line Calculations for Antenna Manufactured by Ethertronics:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 3.5 dBi = 2.24 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002 \times 30 \times 2.24}}{3}$$

E = 0.003864V = 71.7dBuV/m @ 3m.

**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 15.407 (b)(1)**  
 Work Order #: **90303** Date: 2/2/2010  
 Test Type: **Radiated Scan** Time: 13:43:58  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 7  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: **SX-SDCAG**  
 S/N: E1

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
18-26GHz Horn	942126-003	11/12/2008	11/12/2010	01413
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	09/21/2009	09/21/2011	P2948
5.8 GHz HPF	1	03/25/2008	03/25/2010	02755
AMP 50GHz	3332A00309	11/13/2008	11/13/2010	02115
26.5-40GHz Horn Antenna	1012	11/12/2008	11/12/2010	02045

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

***Support Devices:***

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Modulation: 802.11 a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Ethertronics

Antenna Gain: 2.5dBi @2.5GHz

Antenna Gain: 3.5dBi @5.0GHz

Transmit via Antenna #1

13°C, 58% relative humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated.

Frequency range of measurement = 9 kHz- 40 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Bico AN00306_102211	T2=Log AN00300_102211
T3=Cable #10 ANP05050 041611	T4=Cable #15_05198_ Site A, 010511
T5=Pre_amp_HP8447D-AN00309-050210	T6=Heliac Cable 54' ANP05565 090410
T7=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T8=Hi Freq_40GHz_2ft-AN02948-092111
T9=Horn Ant AN00849 060610	T10=Horn Ant AN01413_111310
T11=HPF_6GHz-AN02755-032510	

**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	T10	T11		Table	dBμV/m	dBμV/m	dB	Ant
1	11611.500	39.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.7	71.7	-18.0	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		

^	11611.500	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	65.9	71.7	-5.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5805M		
			+38.8	+0.0	+0.4				Hz		
3	11529.420	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	71.7	-18.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5765M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11529.420	52.4	+0.0	+0.0	+0.0	+0.0	+0.0	66.4	71.7	-5.3	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
^	11529.330	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	58.5	71.7	-13.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
6	11491.330	39.3	+0.0	+0.0	+0.0	+0.0	+0.0	53.3	71.7	-18.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz . power 16, 10		
									dB pad		
^	11491.330	52.8	+0.0	+0.0	+0.0	+0.0	+0.0	66.8	71.7	-4.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5745M		
			+38.8	+0.0	+0.4				Hz . power 16, 10		
									dB pad		
8	11490.000	38.7	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	71.7	-19.0	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz		
9	17236.330	40.4	+0.0	+0.0	+0.0	+0.0	-10.0	52.6	71.7	-19.1	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Z_802.11a_5745M		
	Ave		+41.6	+0.0	+0.3				Hz , power=16, 10		
									dB pad, 1 meter		
^	17236.330	53.5	+0.0	+0.0	+0.0	+0.0	-10.0	65.7	71.7	-6.0	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Z_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz , power=16, 10		
									dB pad, 1 meter		
11	11610.670	38.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.5	71.7	-19.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
	Ave		+38.8	+0.0	+0.4						
^	11610.670	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	65.1	71.7	-6.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
			+38.8	+0.0	+0.4						
13	17235.000	40.2	+0.0	+0.0	+0.0	+0.0	-10.0	52.4	71.7	-19.3	Horiz
	M		+0.0	+12.5	-33.7	+1.5			X_802.11a_5745M		
	Ave		+41.6	+0.0	+0.3				Hz		

^	17235.000	57.0	+0.0	+0.0	+0.0	+0.0	-10.0	69.2	71.7	-2.5	Horiz
	M		+0.0	+12.5	-33.7	+1.5			X_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz		
^	17235.000	44.8	+0.0	+0.0	+0.0	+0.0	-10.0	57.0	71.7	-14.7	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Y_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz		
16	11528.330	38.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.3	71.7	-19.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11528.330	50.7	+0.0	+0.0	+0.0	+0.0	+0.0	64.7	71.7	-7.0	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
18	17289.000	39.7	+0.0	+0.0	+0.0	+0.0	-10.0	52.2	71.7	-19.5	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_802.11a_5765M		
	Ave		+41.8	+0.0	+0.3				Hz		
^	17289.000	54.1	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	71.7	-5.1	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_802.11a_5765M		
			+41.8	+0.0	+0.3				Hz		
20	11612.330	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	71.7	-20.4	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y-		
	Ave		+38.8	+0.0	+0.4				802.11a_5805MHz		
^	11612.330	49.4	+0.0	+0.0	+0.0	+0.0	+0.0	63.4	71.7	-8.3	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y-		
			+38.8	+0.0	+0.4				802.11a_5805MHz		
22	11606.020	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	71.7	-20.4	Vert
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
	Ave		+38.8	+0.0	+0.4						
^	11606.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
			+38.8	+0.0	+0.4						
24	17411.330	37.9	+0.0	+0.0	+0.0	+0.0	-10.0	51.1	71.7	-20.6	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_5805MHz		
	Ave		+42.4	+0.0	+0.4						
^	17411.330	53.4	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	71.7	-5.1	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_5805MHz		
			+42.4	+0.0	+0.4						
26	11490.000	37.0	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	71.7	-20.7	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_802.11a_5745M		
			+38.8	+0.0	+0.4				Hz		

^	11490.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	71.7	-17.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
29	17283.330	38.3	+0.0	+0.0	+0.0	+0.0	-10.0	50.8	71.7	-20.9	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
^	17283.330	52.6	+0.0	+0.0	+0.0	+0.0	-10.0	65.1	71.7	-6.6	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
31	11525.930	36.7	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	71.7	-21.0	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	47.2	+0.0	+0.0	+0.0	+0.0	+0.0	61.2	71.7	-10.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
33	6906.567M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.5	71.7	-21.2	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
34	11526.000	36.4	+0.0	+0.0	+0.0	+0.0	+0.0	50.4	71.7	-21.3	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	63.6	71.7	-8.1	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
36	11490.000	36.3	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	71.7	-21.4	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	65.5	71.7	-6.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	58.2	71.7	-13.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5745M		
									Hz		
40	17421.670	36.1	+0.0	+0.0	+0.0	+0.0	-10.0	49.3	71.7	-22.4	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		

^	17421.670	47.3	+0.0	+0.0	+0.0	+0.0	-10.0	60.5	71.7	-11.2	Horiz
	M		+0.0	+12.5	-33.6	+1.5			Z_802.11a_5805M		
			+42.4	+0.0	+0.4				Hz		
42	15600.000	31.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.0	71.7	-22.7	Horiz
	M		+0.0	+11.8	-34.6	+1.4			Z_802.11a_5200M		
	Ave		+38.0	+0.0	+0.5				Hz		
43	6986.667M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	71.7	-22.8	Horiz
	Ave		+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
44	15600.000	31.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.8	71.7	-22.9	Horiz
	M		+0.0	+11.8	-34.6	+1.4			Y_802.11a_5200M		
	Ave		+38.0	+0.0	+0.5				Hz		
45	6906.650M	42.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	71.7	-23.2	Vert
	Ave		+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
^	6906.650M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	71.7	-19.0	Vert
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
47	6906.500M	42.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	71.7	-23.2	Vert
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
48	15720.000	31.0	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	71.7	-23.4	Horiz
	M		+0.0	+11.8	-34.4	+1.4			Z_802.11a_5240M		
	Ave		+38.0	+0.0	+0.5				Hz		
49	15600.000	31.2	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	71.7	-23.4	Vert
	M		+0.0	+11.8	-34.6	+1.4			Y_802.11a_5200M		
	Ave		+38.0	+0.0	+0.5				Hz		
50	10400.000	36.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.2	71.7	-23.5	Horiz
	M		+0.0	+8.8	-36.2	+1.0			Y_802.11a_5200M		
	Ave		+38.0	+0.0	+0.3				Hz		
51	6933.497M	41.8	+0.0	+0.0	+0.0	+0.0	+0.0	48.2	71.7	-23.5	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Z_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
^	6933.497M	47.9	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	71.7	-17.4	Horiz
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
53	6933.050M	41.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	71.7	-23.6	Vert
	Ave		+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
^	6933.050M	48.0	+0.0	+0.0	+0.0	+0.0	+0.0	54.4	71.7	-17.3	Vert
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
55	6986.533M	41.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.0	71.7	-23.7	Vert
	Ave		+0.0	+6.7	-36.4	+0.8			Y_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		



^	6986.533M	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.3	71.7	-18.4	Vert
			+0.0	+6.7	-36.4	+0.8			Y_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
57	15542.500	30.7	+0.0	+0.0	+0.0	+0.0	+0.0	47.7	71.7	-24.0	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
^	15542.500	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	61.5	71.7	-10.2	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
59	11610.000	33.5	+0.0	+0.0	+0.0	+0.0	+0.0	47.5	71.7	-24.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	11610.000	45.4	+0.0	+0.0	+0.0	+0.0	+0.0	59.4	71.7	-12.3	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
61	17235.820	24.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.1	71.7	-24.6	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Z_802.11a_5745M		
									Hz		
^	17235.820	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	59.5	71.7	-12.2	Vert
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				Z_802.11a_5745M		
									Hz		
63	17235.000	34.9	+0.0	+0.0	+0.0	+0.0	-10.0	47.1	71.7	-24.6	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				X_802.11a_5745M		
									Hz		
^	17235.000	46.6	+0.0	+0.0	+0.0	+0.0	-10.0	58.8	71.7	-12.9	Vert
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				X_802.11a_5745M		
									Hz		
65	11490.000	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	71.7	-24.9	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5745M		
									Hz		
66	10400.000	34.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.7	71.7	-25.0	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
67	17289.000	34.1	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	71.7	-25.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		
^	17289.000	45.4	+0.0	+0.0	+0.0	+0.0	-10.0	57.9	71.7	-13.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		

69	17292.220	34.0	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	71.7	-25.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.220	45.5	+0.0	+0.0	+0.0	+0.0	-10.0	58.1	71.7	-13.6	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
71	11529.330	32.6	+0.0	+0.0	+0.0	+0.0	+0.0	46.6	71.7	-25.1	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5765M		
									Hz		
72	17230.500	34.3	+0.0	+0.0	+0.0	+0.0	-10.0	46.5	71.7	-25.2	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
^	17230.500	46.2	+0.0	+0.0	+0.0	+0.0	-10.0	58.4	71.7	-13.3	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
74	17415.000	23.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.2	71.7	-25.5	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	17415.000	33.7	+0.0	+0.0	+0.0	+0.0	+0.0	56.9	71.7	-14.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
76	15540.000	28.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	71.7	-25.8	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	40.9	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.5	71.7	-15.2	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
79	11527.800	31.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	71.7	-25.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
^	11527.800	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	71.7	-12.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
81	15720.000	28.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	71.7	-26.1	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		

82	10480.000	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	71.7	-26.1	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
83	10359.830	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.5	71.7	-26.2	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
^	10359.830	48.0	+0.0	+0.0	+0.0	+0.0	+0.0	59.9	71.7	-11.8	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
85	15600.000	28.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	71.7	-26.5	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
^	15600.000	42.2	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	71.7	-12.4	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
^	15600.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	71.7	-14.3	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
88	10400.000	33.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	71.7	-26.5	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	46.0	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	40.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	71.7	-19.3	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		
91	10480.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	58.7	71.7	-13.0	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
^	10480.000	45.9	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	71.7	-14.9	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		

95	10358.500	33.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
^	10358.500	47.0	+0.0	+0.0	+0.0	+0.0	+0.0	58.9	71.7	-12.8	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
97	11610.000	31.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	11610.000	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	57.1	71.7	-14.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
99	10479.000	33.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	71.7	-26.7	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
^	10479.000	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	71.7	-12.9	Vert
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
101	10358.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	71.7	-26.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
^	10358.000	47.4	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	71.7	-12.4	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
103	17415.000	31.8	+0.0	+0.0	+0.0	+0.0	-10.0	45.0	71.7	-26.7	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	17415.000	44.3	+0.0	+0.0	+0.0	+0.0	-10.0	57.5	71.7	-14.2	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
105	17411.330	31.7	+0.0	+0.0	+0.0	+0.0	-10.0	44.9	71.7	-26.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				X_5805MHz		
^	17411.330	42.1	+0.0	+0.0	+0.0	+0.0	-10.0	55.3	71.7	-16.4	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				X_5805MHz		
107	17416.170	31.6	+0.0	+0.0	+0.0	+0.0	-10.0	44.8	71.7	-26.9	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		

^	17416.170	41.1	+0.0	+0.0	+0.0	+0.0	-10.0	54.3	71.7	-17.4	Vert
	M		+0.0	+12.5	-33.6	+1.5			Y-		
			+42.4	+0.0	+0.4				802.11a_5805MHz		
109	17301.000	21.9	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	71.7	-27.2	Vert
	M		+0.0	+12.5	-33.6	+1.5			Z_		
	Ave		+41.9	+0.0	+0.3				802.11a_5765M		
									Hz		
^	17301.000	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	71.7	-16.3	Vert
	M		+0.0	+12.5	-33.6	+1.5			Z_		
			+41.9	+0.0	+0.3				802.11a_5765M		
									Hz		
111	10480.000	32.4	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	71.7	-27.3	Horiz
	M		+0.0	+8.9	-36.2	+1.0			Y_		
	Ave		+38.0	+0.0	+0.3				802.11a_5240M		
									Hz		
112	10480.000	32.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	71.7	-27.4	Vert
	M		+0.0	+8.9	-36.2	+1.0			X_		
	Ave		+38.0	+0.0	+0.3				802.11a_5240M		
									Hz		
^	10480.000	43.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	71.7	-16.3	Vert
	M		+0.0	+8.9	-36.2	+1.0			X_		
			+38.0	+0.0	+0.3				802.11a_5240M		
									Hz		
114	15720.000	26.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	71.7	-27.6	Vert
	M		+0.0	+11.8	-34.4	+1.4			X_		
	Ave		+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
^	15720.000	38.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	71.7	-15.6	Vert
	M		+0.0	+11.8	-34.4	+1.4			X_		
			+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
^	15720.000	38.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.7	71.7	-16.0	Vert
	M		+0.0	+11.8	-34.4	+1.4			Y_		
			+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
117	15720.000	26.7	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Horiz
	M		+0.0	+11.8	-34.4	+1.4			X_		
	Ave		+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
^	15720.000	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	60.5	71.7	-11.2	Horiz
	M		+0.0	+11.8	-34.4	+1.4			Z_		
			+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
^	15720.000	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.7	71.7	-14.0	Horiz
	M		+0.0	+11.8	-34.4	+1.4			Y_		
			+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		
^	15720.000	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	71.7	-14.9	Horiz
	M		+0.0	+11.8	-34.4	+1.4			X_		
			+38.0	+0.0	+0.5				802.11a_5240M		
									Hz		

121	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	39.1	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	71.7	-15.6	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
123	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
124	11490.000	29.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	71.7	-28.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
125	15538.580	26.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	71.7	-28.2	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
^	15538.580	38.0	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	71.7	-16.7	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
127	10399.170	31.4	+0.0	+0.0	+0.0	+0.0	+0.0	43.3	71.7	-28.4	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
^	10399.170	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	71.7	-16.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
129	15720.000	25.6	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	71.7	-28.8	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
130	6986.667M	36.2	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	71.7	-28.9	Vert
	Ave		+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
^	6986.667M	42.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.5	71.7	-22.2	Vert
			+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
132	10360.000	30.9	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	71.7	-28.9	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		
^	10360.000	42.8	+0.0	+0.0	+0.0	+0.0	+0.0	54.7	71.7	-17.0	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		

134	550.000M QP	47.3	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	42.8	71.7	-28.9	Horiz
135	15600.000 M Ave	25.5	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	42.6	71.7	-29.1	Horiz
									X_802.11a_5200M Hz		
^	15600.000 M	45.3	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	62.4	71.7	-9.3	Horiz
									Z_802.11a_5200M Hz		
^	15600.000 M	42.7	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	59.8	71.7	-11.9	Horiz
									Y_802.11a_5200M Hz		
^	15600.000 M	38.1	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	55.2	71.7	-16.5	Horiz
									X_802.11a_5200M Hz		
139	15602.500 M Ave	25.5	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	42.6	71.7	-29.1	Vert
									Z_802.11a_5200M Hz		
^	15602.500 M	37.3	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	54.4	71.7	-17.3	Vert
									Z_802.11a_5200M Hz		
141	10483.330 M Ave	30.6	+0.0 +0.0 +38.0	+0.0 +8.9 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.6	71.7	-29.1	Vert
									Y_802.11a_5240M Hz		
^	10483.330 M	44.7	+0.0 +0.0 +38.0	+0.0 +8.9 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	56.7	71.7	-15.0	Vert
									Y_802.11a_5240M Hz		
143	15719.000 M Ave	25.2	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.4 +0.5	+0.0 +1.4	+0.0	42.5	71.7	-29.2	Vert
									Z_802.11a_5240M Hz		
^	15719.000 M	36.2	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.4 +0.5	+0.0 +1.4	+0.0	53.5	71.7	-18.2	Vert
									Z_802.11a_5240M Hz		
145	550.000M QP	47.0	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	42.5	71.7	-29.2	Horiz
^	550.000M	49.6	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	45.1	71.7	-26.6	Horiz
^	550.000M	48.3	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	43.8	71.7	-27.9	Horiz

^	549.998M	36.4	+0.0	+18.4	+0.4	+4.3	+0.0	31.9	71.7	-39.8	Horiz
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
149	6933.483M Ave	36.1	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	71.7	-29.2	Vert
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
^	6933.483M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.5	71.7	-21.2	Vert
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
151	15538.580 M Ave	25.4	+0.0	+0.0	+0.0	+0.0	+0.0	42.4	71.7	-29.3	Horiz
			+0.0	+11.7	-34.6	+1.4			X_802.11a_5180M		
			+38.0	+0.0	+0.5				Hz		
^	15538.580 M	37.1	+0.0	+0.0	+0.0	+0.0	+0.0	54.1	71.7	-17.6	Horiz
			+0.0	+11.7	-34.6	+1.4			X_802.11a_5180M		
			+38.0	+0.0	+0.5				Hz		
153	10400.000 M Ave	30.4	+0.0	+0.0	+0.0	+0.0	+0.0	42.3	71.7	-29.4	Vert
			+0.0	+8.8	-36.2	+1.0			Y_802.11a_5200M		
			+38.0	+0.0	+0.3				Hz		
154	17235.000 M Ave	30.1	+0.0	+0.0	+0.0	+0.0	-10.0	42.3	71.7	-29.4	Horiz
			+0.0	+12.5	-33.7	+1.5			Y_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz		
155	10360.000 M Ave	30.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.2	71.7	-29.5	Vert
			+0.0	+8.8	-36.2	+1.0			Y_802.11a_5180M		
			+38.0	+0.0	+0.3				Hz		
^	10360.000 M	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	71.7	-16.5	Vert
			+0.0	+8.8	-36.2	+1.0			Z_802.11a_5180M		
			+38.0	+0.0	+0.3				Hz		
^	10360.000 M	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	71.7	-16.5	Vert
			+0.0	+8.8	-36.2	+1.0			Y_802.11a_5180M		
			+38.0	+0.0	+0.3				Hz		
158	800.000M QP	40.3	+0.0	+22.5	+0.4	+5.3	+0.0	41.3	71.7	-30.4	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	43.3	+0.0	+22.5	+0.4	+5.3	+0.0	44.3	71.7	-27.4	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	41.6	+0.0	+22.5	+0.4	+5.3	+0.0	42.6	71.7	-29.1	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.010M	40.1	+0.0	+22.5	+0.4	+5.3	+0.0	41.1	71.7	-30.6	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
162	6933.333M Ave	34.5	+0.0	+0.0	+0.0	+0.0	+0.0	40.9	71.7	-30.8	Horiz
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		



^	6933.333M	42.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.8	71.7	-22.9	Horiz
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
164	10400.000	28.9	+0.0	+0.0	+0.0	+0.0	+0.0	40.8	71.7	-30.9	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	48.7	+0.0	+0.0	+0.0	+0.0	+0.0	60.6	71.7	-11.1	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
^	10400.000	46.5	+0.0	+0.0	+0.0	+0.0	+0.0	58.4	71.7	-13.3	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		
^	10400.000	42.6	+0.0	+0.0	+0.0	+0.0	+0.0	54.5	71.7	-17.2	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
168	17292.800	33.0	+0.0	+0.0	+0.0	+0.0	-10.0	45.6	76.5	-30.9	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.800	45.9	+0.0	+0.0	+0.0	+0.0	-10.0	58.5	76.5	-18.0	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
170	6906.500M	34.0	+0.0	+0.0	+0.0	+0.0	+0.0	40.4	71.7	-31.3	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
^	6906.567M	47.6	+0.0	+0.0	+0.0	+0.0	+0.0	54.0	71.7	-17.7	Horiz
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
^	6906.500M	43.5	+0.0	+0.0	+0.0	+0.0	+0.0	49.9	71.7	-21.8	Horiz
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
173	6986.633M	33.8	+0.0	+0.0	+0.0	+0.0	+0.0	40.4	71.7	-31.3	Horiz
	Ave		+0.0	+6.7	-36.4	+0.8			Y_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
^	6986.667M	47.0	+0.0	+0.0	+0.0	+0.0	+0.0	53.6	71.7	-18.1	Horiz
			+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
^	6986.633M	42.6	+0.0	+0.0	+0.0	+0.0	+0.0	49.2	71.7	-22.5	Horiz
			+0.0	+6.7	-36.4	+0.8			Y_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
176	258.970M	44.6	+19.5	+0.0	+0.3	+2.8	+0.0	39.5	71.7	-32.2	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
177	256.990M	44.7	+19.3	+0.0	+0.3	+2.8	+0.0	39.4	71.7	-32.3	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

178	22973.330	40.4	+0.0	+0.0	+0.0	+0.0	-10.0	39.4	71.7	-32.3	Vert
	M		+0.0	+0.0	-32.4	+1.7					
	Ave		+0.0	+39.7	+0.0						
^	22973.330	54.0	+0.0	+0.0	+0.0	+0.0	-10.0	53.0	71.7	-18.7	Vert
	M		+0.0	+0.0	-32.4	+1.7					
			+0.0	+39.7	+0.0						
180	257.010M	44.6	+19.3	+0.0	+0.3	+2.8	+0.0	39.3	71.7	-32.4	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
181	259.030M	44.2	+19.5	+0.0	+0.3	+2.8	+0.0	39.1	71.7	-32.6	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
182	550.000M	43.4	+0.0	+18.4	+0.4	+4.3	+0.0	38.9	71.7	-32.8	Vert
	QP		-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	550.000M	45.2	+0.0	+18.4	+0.4	+4.3	+0.0	40.7	71.7	-31.0	Vert
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	550.000M	42.0	+0.0	+18.4	+0.4	+4.3	+0.0	37.5	71.7	-34.2	Vert
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	550.000M	41.2	+0.0	+18.4	+0.4	+4.3	+0.0	36.7	71.7	-35.0	Vert
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
186	800.000M	37.7	+0.0	+22.5	+0.4	+5.3	+0.0	38.7	71.7	-33.0	Vert
	QP		-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	40.9	+0.0	+22.5	+0.4	+5.3	+0.0	41.9	71.7	-29.8	Vert
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	39.9	+0.0	+22.5	+0.4	+5.3	+0.0	40.9	71.7	-30.8	Vert
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	37.6	+0.0	+22.5	+0.4	+5.3	+0.0	38.6	71.7	-33.1	Vert
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
190	375.001M	45.2	+0.0	+17.3	+0.4	+3.5	+0.0	38.6	71.7	-33.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
191	464.949M	45.0	+0.0	+16.8	+0.3	+3.9	+0.0	38.2	71.7	-33.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
192	251.020M	44.0	+18.6	+0.0	+0.3	+2.8	+0.0	38.0	71.7	-33.7	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
193	251.010M	43.9	+18.6	+0.0	+0.3	+2.8	+0.0	37.9	71.7	-33.8	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
194	849.960M	35.4	+0.0	+23.2	+0.7	+5.5	+0.0	37.8	71.7	-33.9	Horiz
			-27.0	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

195	250.990M	43.6	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	37.6	71.7	-34.1	Horiz
196	800.010M QP	36.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0	+0.0	37.6	71.7	-34.1	Horiz
197	23226.670 M Ave	38.6	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7	-10.0	37.6	71.7	-34.1	Vert
^	23226.670 M	51.1	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7	-10.0	50.1	71.7	-21.6	Vert
199	10360.000 M Ave	30.5	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.4	76.5	-34.1	Vert
									Z_802.11a_5180M Hz		
200	449.983M	44.1	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0	+0.0	37.0	71.7	-34.7	Horiz
201	900.000M	33.8	+0.0 -27.2 +0.0	+23.8 +0.0 +0.0	+0.7 +0.0 +0.0	+5.7 +0.0	+0.0	36.8	71.7	-34.9	Vert
202	267.020M	40.9	+20.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0	+0.0	36.6	71.7	-35.1	Horiz
203	23063.330 M Ave	37.5	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7	-10.0	36.5	71.7	-35.2	Vert
^	23063.330 M	49.3	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7	-10.0	48.3	71.7	-23.4	Vert
205	225.020M	43.4	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0	+0.0	36.3	71.7	-35.4	Vert
206	449.966M	43.2	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0	+0.0	36.1	71.7	-35.6	Vert
207	399.966M QP	44.0	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0	+0.0	35.9	71.7	-35.8	Vert
^	399.966M	47.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0	+0.0	39.3	71.7	-32.4	Vert
209	700.000M	34.2	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0	+0.0	35.8	71.7	-35.9	Vert
210	225.000M	42.8	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0	+0.0	35.7	71.7	-36.0	Horiz
211	500.000M	41.5	+0.0 -27.8 +0.0	+17.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0	+0.0	35.6	71.7	-36.1	Vert

212	349.994M	40.5	+0.0 -27.8 +0.0	+18.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	35.2	71.7	-36.5	Horiz
213	20973.330 M Ave	36.7	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.9 +0.0	+0.0 +1.6 +0.0	-10.0	35.0	71.7	-36.7	Vert
^	20973.330 M	54.4	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.9 +0.0	+0.0 +1.6 +0.0	-10.0	52.7	71.7	-19.0	Vert
215	124.510M	44.9	+15.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0	34.9	71.7	-36.8	Horiz
216	700.017M	33.2	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	34.8	71.7	-36.9	Horiz
217	599.983M	37.7	+0.0 -27.4 +0.0	+19.4 +0.0 +0.0	+0.5 +0.0 +0.0	+4.5 +0.0 +0.0	+0.0	34.7	71.7	-37.0	Horiz
218	399.992M	42.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	34.3	71.7	-37.4	Horiz
219	250.980M	40.3	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	34.3	71.7	-37.4	Vert
220	900.010M	31.2	+0.0 -27.2 +0.0	+23.8 +0.0 +0.0	+0.7 +0.0 +0.0	+5.7 +0.0 +0.0	+0.0	34.2	71.7	-37.5	Horiz
221	292.520M	35.8	+22.8 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.0 +0.0 +0.0	+0.0	34.1	71.7	-37.6	Horiz
222	279.010M	37.2	+21.5 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	34.1	71.7	-37.6	Vert
223	400.007M	42.0	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	33.9	71.7	-37.8	Horiz
224	375.000M	40.2	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	33.6	71.7	-38.1	Horiz
225	20800.000 M Ave	35.0	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.9 +0.0	+0.0 +1.6 +0.0	-10.0	33.3	71.7	-38.4	Vert
^	20800.000 M	45.4	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.9 +0.0	+0.0 +1.6 +0.0	-10.0	43.7	71.7	-28.0	Vert
227	442.999M	40.5	+0.0 -27.8 +0.0	+16.5 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	33.3	71.7	-38.4	Vert
228	415.030M	41.0	+0.0 -27.8 +0.0	+16.0 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	33.3	71.7	-38.4	Vert

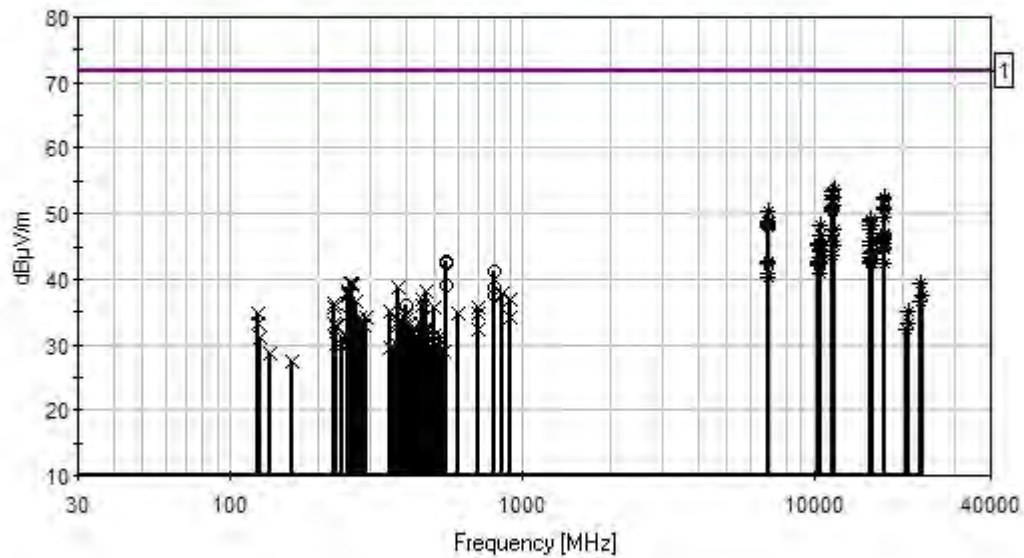
229	384.033M	40.5	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0	+0.0	33.3	71.7	-38.4	Horiz
230	224.960M	40.2	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0	+0.0	33.1	71.7	-38.6	Horiz
231	123.840M	43.2	+15.8 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.8 +0.0	+0.0	33.1	71.7	-38.6	Vert
232	374.083M	39.9	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0	+0.0	33.1	71.7	-38.6	Horiz
233	287.000M	35.4	+22.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0	+0.0	33.1	71.7	-38.6	Vert
234	475.883M	39.4	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0	+0.0	33.0	71.7	-38.7	Horiz
235	473.982M	39.5	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0	+0.0	32.9	71.7	-38.8	Vert
236	229.010M	39.8	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0	+0.0	32.8	71.7	-38.9	Vert
237	424.075M	40.1	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0	+0.0	32.5	71.7	-39.2	Horiz
238	229.030M	39.5	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0	+0.0	32.5	71.7	-39.2	Horiz
239	700.033M	30.8	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0	+0.0	32.4	71.7	-39.3	Horiz
240	427.049M	39.9	+0.0 -27.8 +0.0	+16.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.7 +0.0	+0.0	32.3	71.7	-39.4	Vert
241	20720.000 M Ave	33.8	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.8 +0.0	+0.0 +1.6		32.2	71.7	-39.5	Vert
^	20720.000 M	48.2	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.8 +0.0	+0.0 +1.6		46.6	71.7	-25.1	Vert
243	259.005M	37.0	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	31.9	71.7	-39.8	Vert
244	456.966M	38.9	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0	+0.0	31.9	71.7	-39.8	Vert
245	499.997M	37.3	+0.0 -27.8 +0.0	+17.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0	+0.0	31.4	71.7	-40.3	Horiz

246	524.942M	36.6	+0.0	+17.9	+0.4	+4.2	+0.0	31.4	71.7	-40.3	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
247	450.008M	38.3	+0.0	+16.6	+0.3	+3.8	+0.0	31.2	71.7	-40.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
248	464.433M	38.0	+0.0	+16.8	+0.3	+3.9	+0.0	31.2	71.7	-40.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
249	126.130M	40.9	+16.2	+0.0	+0.2	+1.8	+0.0	31.2	71.7	-40.5	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
250	426.200M	38.8	+0.0	+16.2	+0.3	+3.7	+0.0	31.2	71.7	-40.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
251	432.930M	38.6	+0.0	+16.3	+0.3	+3.7	+0.0	31.1	71.7	-40.6	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
252	240.990M	37.6	+18.3	+0.0	+0.3	+2.7	+0.0	31.1	71.7	-40.6	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
253	251.010M	37.1	+18.6	+0.0	+0.3	+2.8	+0.0	31.1	71.7	-40.6	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
254	424.100M	38.1	+0.0	+16.1	+0.4	+3.7	+0.0	30.5	71.7	-41.2	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
255	228.950M	37.3	+18.0	+0.0	+0.3	+2.6	+0.0	30.3	71.7	-41.4	Vert
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
256	367.550M	36.4	+0.0	+17.8	+0.3	+3.4	+0.0	30.1	71.7	-41.6	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
257	255.020M	35.7	+19.0	+0.0	+0.3	+2.8	+0.0	30.1	71.7	-41.6	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
258	241.000M	36.5	+18.3	+0.0	+0.3	+2.7	+0.0	30.0	71.7	-41.7	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
259	269.010M	34.1	+20.5	+0.0	+0.3	+2.9	+0.0	30.0	71.7	-41.7	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
260	386.442M	37.3	+0.0	+16.5	+0.4	+3.5	+0.0	29.9	71.7	-41.8	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
261	510.970M	35.6	+0.0	+17.6	+0.4	+4.1	+0.0	29.9	71.7	-41.8	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
262	364.900M	35.9	+0.0	+17.9	+0.3	+3.4	+0.0	29.7	71.7	-42.0	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

263	352.017M	35.0	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	29.6	71.7	-42.1	Horiz
264	491.970M	35.6	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	29.6	71.7	-42.1	Vert
265	515.066M	34.9	+0.0 -27.7 +0.0	+17.7 +0.0 +0.0	+0.4 +0.0 +0.0	+4.2 +0.0 +0.0	+0.0	29.5	71.7	-42.2	Vert
266	380.983M	36.5	+0.0 -27.8 +0.0	+16.9 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	29.5	71.7	-42.2	Vert
267	476.275M	35.8	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	29.4	71.7	-42.3	Horiz
268	523.770M	34.3	+0.0 -27.7 +0.0	+17.9 +0.0 +0.0	+0.4 +0.0 +0.0	+4.2 +0.0 +0.0	+0.0	29.1	71.7	-42.6	Vert
269	480.130M	35.2	+0.0 -27.8 +0.0	+17.1 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	28.9	71.7	-42.8	Vert
270	542.030M	33.5	+0.0 -27.6 +0.0	+18.3 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	28.9	71.7	-42.8	Vert
271	437.449M	36.1	+0.0 -27.8 +0.0	+16.4 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	28.8	71.7	-42.9	Vert
272	375.418M	35.4	+0.0 -27.8 +0.0	+17.2 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	28.7	71.7	-43.0	Horiz
273	137.190M	36.8	+17.6 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+1.9 +0.0 +0.0	+0.0	28.7	71.7	-43.0	Horiz
274	436.950M	36.0	+0.0 -27.8 +0.0	+16.4 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	28.7	71.7	-43.0	Horiz
275	410.999M	36.5	+0.0 -27.8 +0.0	+15.9 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	28.6	71.7	-43.1	Vert
276	393.017M	36.3	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	28.6	71.7	-43.1	Vert
277	467.370M	35.0	+0.0 -27.8 +0.0	+16.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	28.3	71.7	-43.4	Vert
278	524.283M	33.2	+0.0 -27.7 +0.0	+17.9 +0.0 +0.0	+0.4 +0.0 +0.0	+4.2 +0.0 +0.0	+0.0	28.0	71.7	-43.7	Horiz
279	369.690M	34.1	+0.0 -27.8 +0.0	+17.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	27.6	71.7	-44.1	Horiz

280	450.563M	34.6	+0.0	+16.6	+0.3	+3.8	+0.0	27.5	71.7	-44.2	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
281	163.090M	34.5	+18.5	+0.0	+0.3	+2.1	+0.0	27.5	71.7	-44.2	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
282	462.825M	33.4	+0.0	+16.8	+0.3	+3.9	+0.0	26.6	71.7	-45.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
283	487.366M	32.8	+0.0	+17.2	+0.4	+4.0	+0.0	26.6	71.7	-45.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
284	379.917M	33.4	+0.0	+17.0	+0.4	+3.5	+0.0	26.5	71.7	-45.2	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
285	502.966M	32.2	+0.0	+17.5	+0.4	+4.1	+0.0	26.4	71.7	-45.3	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
286	420.017M	34.0	+0.0	+16.1	+0.4	+3.7	+0.0	26.4	71.7	-45.3	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

CKC Laboratories, Inc. Date: 2/2/2010 Time: 13:43:58 Silix Technology, America, Inc. WO#: 90303  
 FCC 15.407 (b)(1) Test Distance: 3 Meters Sequence#: 7  
 SX-SDCAG



— Readings      — 1 - FCC 15.407 (b)(1)      × Peak Readings  
 ○ QP Readings      \* Average Readings



**Limit Line Calculations for Antenna Manufactured by Pulse:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 4.2 dBi = 2.6 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002 \times 30 \times 2.6}}{3}$$

E = 0.004163v = 72.3dBuV/m @ 3m.

**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 15.407 (b)(1)**  
 Work Order #: **90303** Date: 3/1/2010  
 Test Type: **Radiated Scan** Time: 10:50:45  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 53  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: SX-SDCAG  
 S/N: ED

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
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	09/21/2009	09/21/2011	P2948

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	ED

***Support Devices:***

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.  
 Modulation: 802.11 a (54 mbps),  
 Ch 36,40,48, 149, 153, 161.  
 Firmware Power setting: 16, 16, 16, 15, 15, 16  
 Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Pulse  
 Antenna Gain: 3.2dBi @2.5GHz  
 Antenna Gain: 4.2dBi @5.0GHz  
 Transmit via Antenna #1

17°C, 41% relative humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated. Maximization of worse case emission measured with Ethertronics antenna installed.

Frequency range of measurement = 9 kHz- 40 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Heliax Cable 54' ANP05565 090410	T2=HF_pre AMP-1-26GHz_AN00786-072810.TRN
T3=Hi Freq_40GHz_2ft-AN02948-092111	T4=Horn Ant AN00849 060610
T5=HPF_3GHz-AN02744-032510	T6=HPF_6GHz-AN02755-032510

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	T5	T6			Table	dBµV/m	dBµV/m	dB	Ant
1	10360.130 M	51.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	63.5	72.3	-8.8	Horiz
Z_802.11a											
2	10479.670 M	50.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.5	72.3	-9.8	Horiz
X_802.11a											
3	10400.600 M	50.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.0	72.3	-10.3	Horiz
X_802.11a											

4	10360.200 M	49.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.8	72.3	-10.5	Horiz
									X_802.11a		
5	10360.330 M	49.7	+8.8 +0.4	-36.2 +0.0	+1.0	+38.0	+0.0	61.7	72.3	-10.6	Vert
									X_802.11a		
6	10400.930 M	49.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.5	72.3	-10.8	Horiz
									Z_802.11a		
7	17295.000 M	38.1	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.7	72.3	-11.6	Vert
									X_802.11a		
8	17235.750 M	38.4	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	60.6	72.3	-11.7	Vert
									X_802.11a		
9	10479.670 M	48.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	60.5	72.3	-11.8	Vert
									X_802.11a		
10	17295.000 M	37.8	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.4	72.3	-11.9	Vert
									Y_802.11a		
11	17294.920 M	37.4	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.0	72.3	-12.3	Vert
									Z_802.11a		
12	17295.000 M	37.3	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.9	72.3	-12.4	Horiz
									X_802.11a		
13	10479.670 M	47.7	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.7	72.3	-12.6	Vert
									Z_802.11a		
14	17295.000 M	36.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.5	72.3	-12.8	Horiz
									Z_802.11a		
15	10479.670 M	47.2	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	72.3	-13.1	Vert
									Y_802.11a		
16	17235.750 M	37.0	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	59.2	72.3	-13.1	Vert
									Z_802.11a		
17	10360.500 M	47.3	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	72.3	-13.1	Horiz
									Y_802.11a		
18	10400.930 M	47.2	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.1	72.3	-13.2	Vert
									X_802.11a		
19	17235.750 M	36.7	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.9	72.3	-13.4	Horiz
									Z_802.11a		
20	10360.130 M	46.8	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	58.7	72.3	-13.6	Vert
									Z_802.11a		

21	17295.000 M	35.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	58.5	72.3	-13.8	Horiz
									Y_802.11a		
22	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	72.3	-14.0	Vert
									Y_802.11a		
23	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	72.3	-14.0	Horiz
									Y_802.11a		
24	17235.750 M	35.9	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.1	72.3	-14.2	Horiz
									X_802.11a		
25	10479.670 M	45.9	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.9	72.3	-14.4	Horiz
									Y_802.11a		
26	10400.930 M	45.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.8	72.3	-14.5	Horiz
									Y_802.11a		
27	10479.670 M	45.6	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.6	72.3	-14.7	Horiz
									Z_802.11a		
28	10400.930 M	44.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	56.0	72.3	-16.3	Vert
									Z_802.11a		
29	10400.930 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	72.3	-16.8	Vert
									Y_802.11a		
30	10360.170 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	72.3	-16.8	Vert
									Y_802.11a		
31	17416.140 M	31.7	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.9	72.3	-17.4	Horiz
									Y_802.11a		
32	17413.600 M	31.1	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.3	72.3	-18.0	Vert
									Z_802.11a		
33	17416.140 M	31.0	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.2	72.3	-18.1	Horiz
									X_802.11a		
34	17416.140 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	72.3	-18.2	Vert
									X_802.11a		
35	17413.560 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	72.3	-18.2	Vert
									Y_802.11a		
36	17420.250 M	29.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	53.1	72.3	-19.2	Horiz
									Z_802.11a		
37	11611.340 M Ave	35.7	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	49.7	72.3	-22.6	Vert
									X_802.11a		

^	11611.340	48.1	+9.6	-35.9	+1.1	+38.8	+0.0	62.1	72.3	-10.2	Vert
	M		+0.0	+0.4							
									X_802.11a		
39	11615.450	34.7	+9.6	-35.9	+1.1	+38.8	+0.0	48.7	72.3	-23.6	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11615.450	49.2	+9.6	-35.9	+1.1	+38.8	+0.0	63.2	72.3	-9.1	Horiz
	M		+0.0	+0.4							
									Z_802.11a		
41	11611.340	34.6	+9.6	-35.9	+1.1	+38.8	+0.0	48.6	72.3	-23.7	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
42	11608.760	34.1	+9.6	-35.9	+1.1	+38.8	+0.0	48.1	72.3	-24.2	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
^	11608.760	45.7	+9.6	-35.9	+1.1	+38.8	+0.0	59.7	72.3	-12.6	Vert
	M		+0.0	+0.4							
									Y_802.11a		
44	11610.500	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	72.3	-24.4	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11610.500	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	72.3	-11.4	Vert
	M		+0.0	+0.4							
									Z_802.11a		
46	11611.340	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	72.3	-24.4	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11611.340	47.6	+9.6	-35.9	+1.1	+38.8	+0.0	61.6	72.3	-10.7	Horiz
	M		+0.0	+0.4							
									Y_802.11a		
^	11611.340	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	72.3	-11.4	Horiz
	M		+0.0	+0.4							
									X_802.11a		
49	15601.400	28.0	+11.8	-34.6	+1.4	+38.0	+0.0	45.1	72.3	-27.2	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
50	11530.000	30.7	+9.6	-35.9	+1.1	+38.8	+0.0	44.7	72.3	-27.6	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
51	15601.400	27.4	+11.8	-34.6	+1.4	+38.0	+0.0	44.5	72.3	-27.8	Horiz
	M		+0.0	+0.5							
	Ave								Y_802.11a		
52	11530.000	30.5	+9.6	-35.9	+1.1	+38.8	+0.0	44.5	72.3	-27.8	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11530.000	44.2	+9.6	-35.9	+1.1	+38.8	+0.0	58.2	72.3	-14.1	Vert
	M		+0.0	+0.4							
									Z_802.11a		
^	11530.000	43.8	+9.6	-35.9	+1.1	+38.8	+0.0	57.8	72.3	-14.5	Vert
	M		+0.0	+0.4							
									Y_802.11a		

^	11530.000	42.0	+9.6	-35.9	+1.1	+38.8	+0.0	56.0	72.3	-16.3	Vert
	M		+0.0	+0.4							
									X_802.11a		
56	11490.500	30.3	+9.6	-35.9	+1.1	+38.8	+0.0	44.3	72.3	-28.0	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
57	11490.500	30.1	+9.6	-35.9	+1.1	+38.8	+0.0	44.1	72.3	-28.2	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
58	11490.500	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	72.3	-28.3	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
59	11530.000	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	72.3	-28.3	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
60	11530.000	29.6	+9.6	-35.9	+1.1	+38.8	+0.0	43.6	72.3	-28.7	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11530.000	43.3	+9.6	-35.9	+1.1	+38.8	+0.0	57.3	72.3	-15.0	Horiz
	M		+0.0	+0.4							
									Z_802.11a		
^	11530.000	41.7	+9.6	-35.9	+1.1	+38.8	+0.0	55.7	72.3	-16.6	Horiz
	M		+0.0	+0.4							
									Y_802.11a		
^	11530.000	38.5	+9.6	-35.9	+1.1	+38.8	+0.0	52.5	72.3	-19.8	Horiz
	M		+0.0	+0.4							
									X_802.11a		
64	15540.290	26.4	+11.7	-34.6	+1.4	+38.0	+0.0	43.4	72.3	-28.9	Horiz
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15540.330	39.4	+11.7	-34.6	+1.4	+38.0	+0.0	56.4	72.3	-15.9	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
^	15540.300	38.8	+11.7	-34.6	+1.4	+38.0	+0.0	55.8	72.3	-16.5	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15540.370	36.9	+11.7	-34.6	+1.4	+38.0	+0.0	53.9	72.3	-18.4	Horiz
	M		+0.0	+0.5							
									X_802.11a		
68	15601.400	26.2	+11.8	-34.6	+1.4	+38.0	+0.0	43.3	72.3	-29.0	Horiz
	M		+0.0	+0.5							
	Ave								Z_802.11a		
69	15540.330	26.1	+11.7	-34.6	+1.4	+38.0	+0.0	43.1	72.3	-29.2	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
70	15540.330	25.4	+11.7	-34.6	+1.4	+38.0	+0.0	42.4	72.3	-29.9	Horiz
	M		+0.0	+0.5							
	Ave								Y_802.11a		
71	15540.330	25.3	+11.7	-34.6	+1.4	+38.0	+0.0	42.3	72.3	-30.0	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		

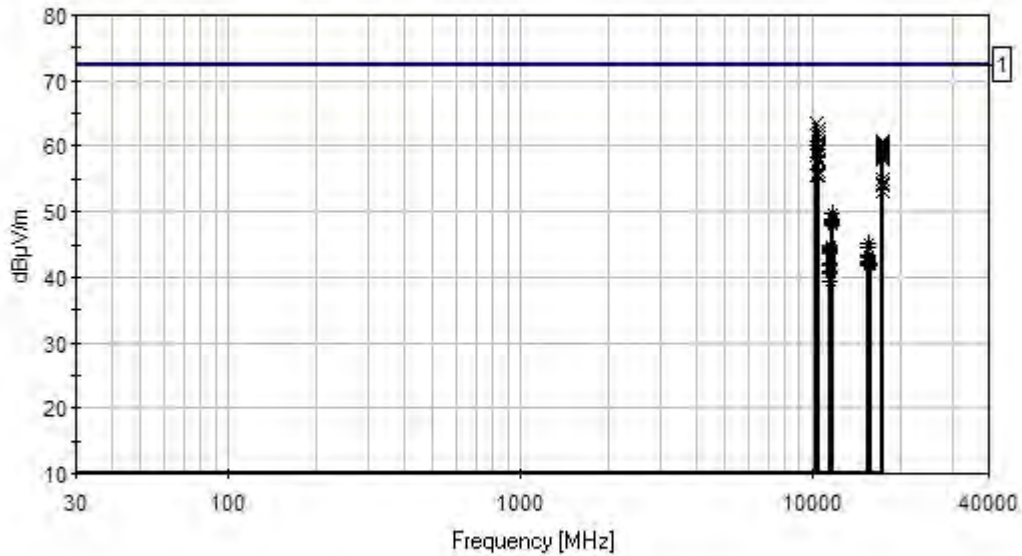
72	15601.400	25.2	+11.8	-34.6	+1.4	+38.0	+0.0	42.3	72.3	-30.0	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		
^	15601.400	40.1	+11.8	-34.6	+1.4	+38.0	+0.0	57.2	72.3	-15.1	Vert
	M		+0.0	+0.5							
									Z_802.11a		
^	15601.400	39.0	+11.8	-34.6	+1.4	+38.0	+0.0	56.1	72.3	-16.2	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	72.3	-16.8	Vert
	M		+0.0	+0.5							
									X_802.11a		
76	15601.400	25.1	+11.8	-34.6	+1.4	+38.0	+0.0	42.2	72.3	-30.1	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
77	15540.300	25.2	+11.7	-34.6	+1.4	+38.0	+0.0	42.2	72.3	-30.1	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15540.330	40.9	+11.7	-34.6	+1.4	+38.0	+0.0	57.9	72.3	-14.4	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15540.300	37.8	+11.7	-34.6	+1.4	+38.0	+0.0	54.8	72.3	-17.5	Vert
	M		+0.0	+0.5							
									Z_802.11a		
^	15540.330	35.3	+11.7	-34.6	+1.4	+38.0	+0.0	52.3	72.3	-20.0	Vert
	M		+0.0	+0.5							
									X_802.11a		
81	15719.330	24.8	+11.8	-34.4	+1.4	+38.0	+0.0	42.1	72.3	-30.2	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		
82	15601.400	25.0	+11.8	-34.6	+1.4	+38.0	+0.0	42.1	72.3	-30.2	Horiz
	M		+0.0	+0.5							
	Ave								X_802.11a		
^	15601.400	40.8	+11.8	-34.6	+1.4	+38.0	+0.0	57.9	72.3	-14.4	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	72.3	-16.8	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15601.400	37.4	+11.8	-34.6	+1.4	+38.0	+0.0	54.5	72.3	-17.8	Horiz
	M		+0.0	+0.5							
									X_802.11a		
86	11490.500	28.1	+9.6	-35.9	+1.1	+38.8	+0.0	42.1	72.3	-30.2	Vert
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11490.500	45.9	+9.6	-35.9	+1.1	+38.8	+0.0	59.9	72.3	-12.4	Vert
	M		+0.0	+0.4							
									Y_802.11a		
^	11490.500	44.0	+9.6	-35.9	+1.1	+38.8	+0.0	58.0	72.3	-14.3	Vert
	M		+0.0	+0.4							
									X_802.11a		



^	11490.500	42.3	+9.6	-35.9	+1.1	+38.8	+0.0	56.3	72.3	-16.0	Vert
	M		+0.0	+0.4					Z_802.11a		
90	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Vert
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15719.330	38.1	+11.8	-34.4	+1.4	+38.0	+0.0	55.4	72.3	-16.9	Vert
	M		+0.0	+0.5					Y_802.11a		
^	15719.330	37.5	+11.8	-34.4	+1.4	+38.0	+0.0	54.8	72.3	-17.5	Vert
	M		+0.0	+0.5					X_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	72.3	-17.6	Vert
	M		+0.0	+0.5					Z_802.11a		
94	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Vert
	M		+0.0	+0.5					Y_802.11a		
	Ave										
95	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Horiz
	M		+0.0	+0.5					X_802.11a		
	Ave										
96	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Horiz
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15719.330	39.6	+11.8	-34.4	+1.4	+38.0	+0.0	56.9	72.3	-15.4	Horiz
	M		+0.0	+0.5					Z_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	72.3	-17.6	Horiz
	M		+0.0	+0.5					X_802.11a		
^	15719.330	36.8	+11.8	-34.4	+1.4	+38.0	+0.0	54.1	72.3	-18.2	Horiz
	M		+0.0	+0.5					Y_802.11a		
100	15719.330	24.6	+11.8	-34.4	+1.4	+38.0	+0.0	41.9	72.3	-30.4	Horiz
	M		+0.0	+0.5					Y_802.11a		
	Ave										
101	11530.000	27.9	+9.6	-35.9	+1.1	+38.8	+0.0	41.9	72.3	-30.4	Vert
	M		+0.0	+0.4					X_802.11a		
	Ave										
102	15540.330	24.7	+11.7	-34.6	+1.4	+38.0	+0.0	41.7	72.3	-30.6	Horiz
	M		+0.0	+0.5					X_802.11a		
	Ave										
103	11490.500	27.0	+9.6	-35.9	+1.1	+38.8	+0.0	41.0	72.3	-31.3	Horiz
	M		+0.0	+0.4					X_802.11a		
	Ave										
^	11490.500	46.5	+9.6	-35.9	+1.1	+38.8	+0.0	60.5	72.3	-11.8	Horiz
	M		+0.0	+0.4					Z_802.11a		
^	11490.500	44.9	+9.6	-35.9	+1.1	+38.8	+0.0	58.9	72.3	-13.4	Horiz
	M		+0.0	+0.4					Y_802.11a		

^	11490.500	39.4	+9.6	-35.9	+1.1	+38.8	+0.0	53.4	72.3	-18.9	Horiz
	M		+0.0	+0.4							
									X_802.11a		
107	11490.500	26.7	+9.6	-35.9	+1.1	+38.8	+0.0	40.7	72.3	-31.6	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
108	11530.000	25.4	+9.6	-35.9	+1.1	+38.8	+0.0	39.4	72.3	-32.9	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		

CKC Laboratories, Inc. Date: 3/1/2010 Time: 10:50:45 Silex Technology, America, Inc. WO#: 90303  
 FCC 15.407 (b)(1) Test Distance: 3 Meters Sequence#: 53  
 SX-SDCAG

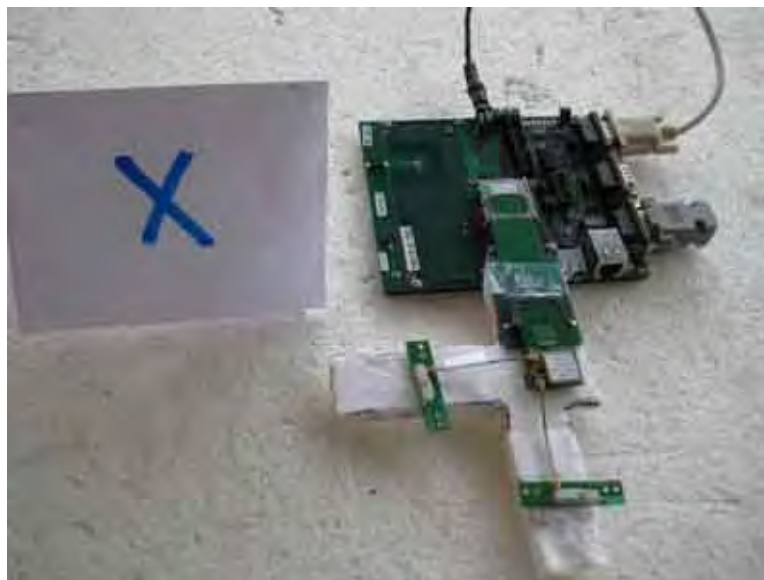


— Readings
— 1 - FCC 15.407 (b)(1)  
x Peak Readings
\* Average Readings

**Test Setup Photos**



Antenna Manufacture: Ethertronics - Front View in X Orientation



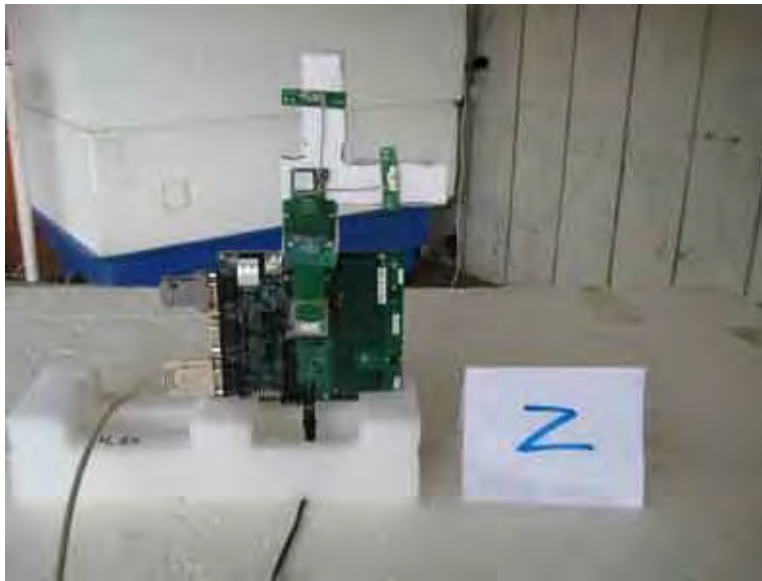
Antenna Manufacture: Ethertronics - Back View in X Orientation



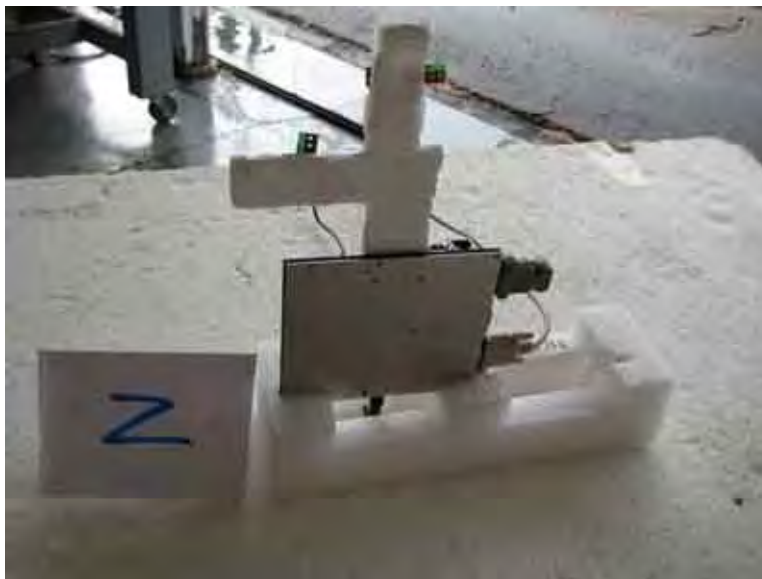
Antenna Manufacture: Ethertronics - Front View in Y Orientation



Antenna Manufacture: Ethertronics - Back View in Y Orientation



Antenna Manufacture: Ethertronics - Front View in Z Orientation



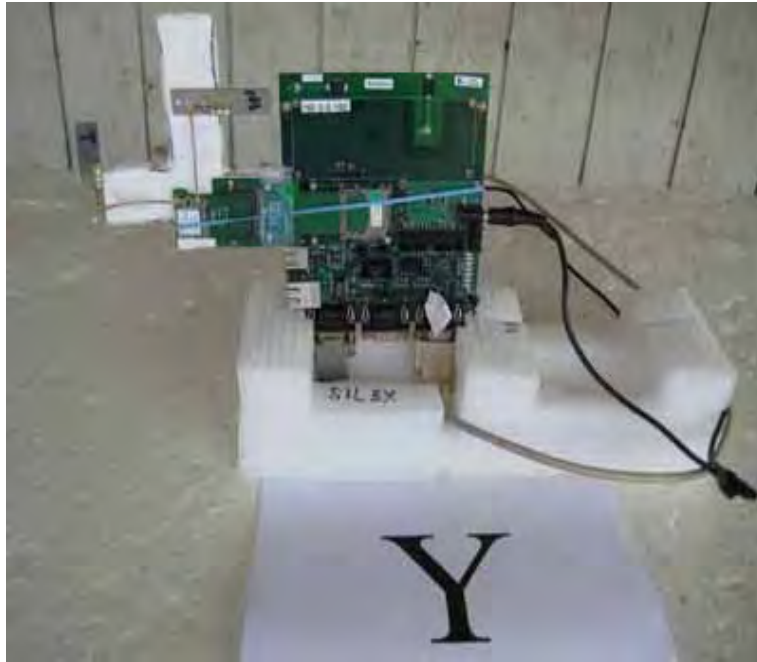
Antenna Manufacture: Ethertronics - Back View in Z Orientation



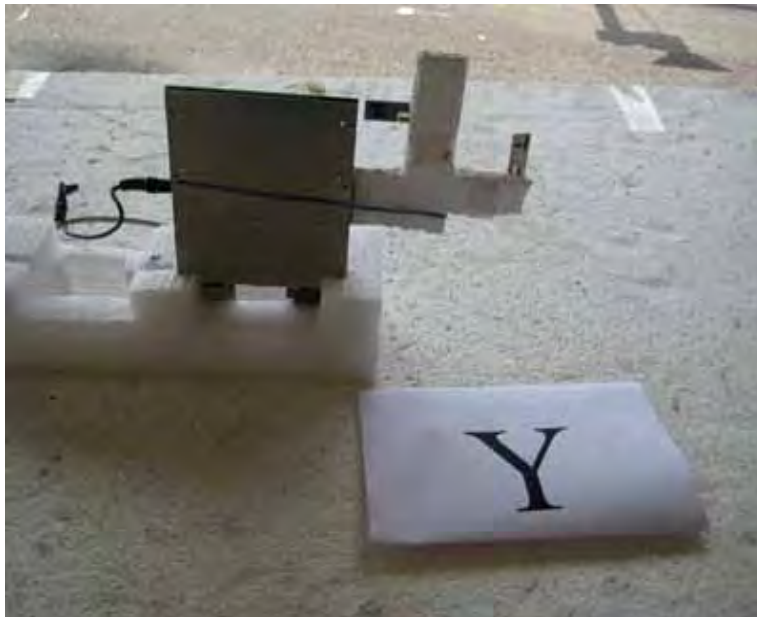
Antenna Manufacture: Pulse - Front View in X Orientation



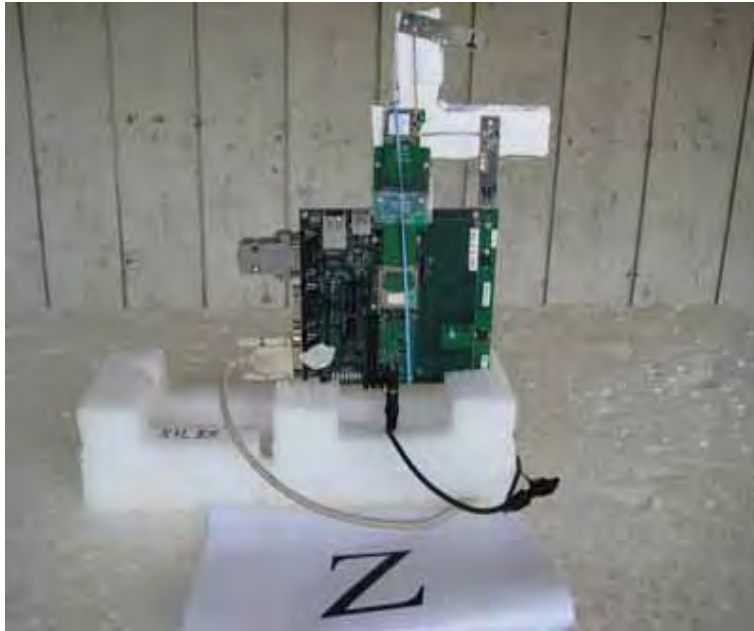
Antenna Manufacture: Pulse - Back View in X Orientation



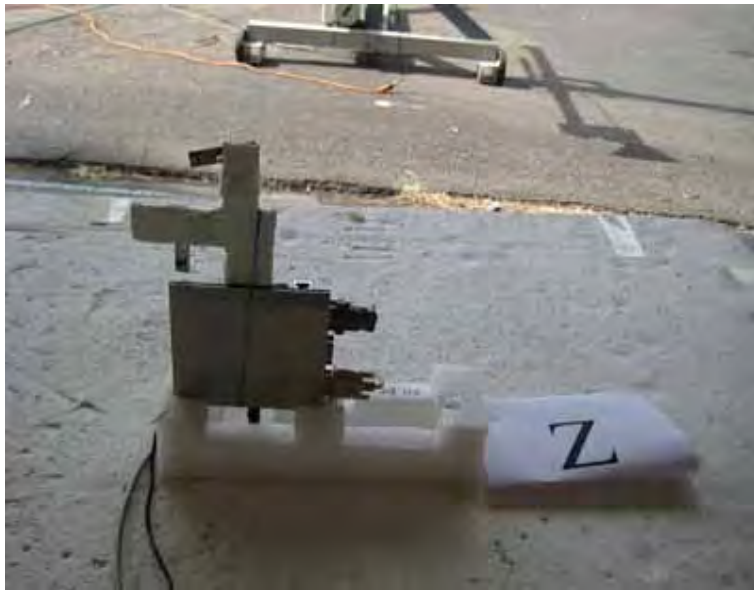
Antenna Manufacture: Pulse - Front View in Y Orientation



Antenna Manufacture: Pulse - Back View in Y Orientation



Antenna Manufacture: Pulse - Front View in Z Orientation



Antenna Manufacture: Pulse - Back View in Z Orientation



## 15.407(b)(4) UNDESIRABLE EMISSIONS IN 5.725-5.825GHz

**Limit Line Calculations for Antenna Manufactured by Ethertronics:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 3.5 dBi = 2.24 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002x30x2.24}}{3}$$

E = 0.003864V = 71.7dBuV/m @ 3m.

**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 15.407 (b)(4)**  
 Work Order #: **90303** Date: 2/2/2010  
 Test Type: **Radiated Scan** Time: 13:43:58  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 7  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: **SX-SDCAG**  
 S/N: E1

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
18-26GHz Horn	942126-003	11/12/2008	11/12/2010	01413
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	09/21/2009	09/21/2011	P2948
5.8 GHz HPF	1	03/25/2008	03/25/2010	02755
AMP 50GHz	3332A00309	11/13/2008	11/13/2010	02115
26.5-40GHz Horn Antenna	1012	11/12/2008	11/12/2010	02045

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

***Support Devices:***

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Modulation: 802.11 a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Ethertronics

Antenna Gain: 2.5dBi @2.5GHz

Antenna Gain: 3.5dBi @5.0GHz

Transmit via Antenna #1

13°C, 58% relative humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated.

Frequency range of measurement = 9 kHz- 40 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Bico AN00306_102211	T2=Log AN00300_102211
T3=Cable #10 ANP05050 041611	T4=Cable #15_05198_ Site A, 010511
T5=Pre_amp_HP8447D-AN00309-050210	T6=Heliax Cable 54' ANP05565 090410
T7=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T8=Hi Freq_40GHz_2ft-AN02948-092111
T9=Horn Ant AN00849 060610	T10=Horn Ant AN01413_111310
T11=HPF_6GHz-AN02755-032510	

**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	T10	T11		Table	dBµV/m	dBµV/m	dB	Ant
1	11611.500	39.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.7	71.7	-18.0	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		

^	11611.500	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	65.9	71.7	-5.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5805M		
			+38.8	+0.0	+0.4				Hz		
3	11529.420	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	71.7	-18.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5765M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11529.420	52.4	+0.0	+0.0	+0.0	+0.0	+0.0	66.4	71.7	-5.3	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
^	11529.330	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	58.5	71.7	-13.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
6	11491.330	39.3	+0.0	+0.0	+0.0	+0.0	+0.0	53.3	71.7	-18.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz . power 16, 10		
									dB pad		
^	11491.330	52.8	+0.0	+0.0	+0.0	+0.0	+0.0	66.8	71.7	-4.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5745M		
			+38.8	+0.0	+0.4				Hz . power 16, 10		
									dB pad		
8	11490.000	38.7	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	71.7	-19.0	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz		
9	17236.330	40.4	+0.0	+0.0	+0.0	+0.0	-10.0	52.6	71.7	-19.1	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Z_802.11a_5745M		
	Ave		+41.6	+0.0	+0.3				Hz , power=16, 10		
									dB pad, 1 meter		
^	17236.330	53.5	+0.0	+0.0	+0.0	+0.0	-10.0	65.7	71.7	-6.0	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Z_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz , power=16, 10		
									dB pad, 1 meter		
11	11610.670	38.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.5	71.7	-19.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
	Ave		+38.8	+0.0	+0.4						
^	11610.670	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	65.1	71.7	-6.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
			+38.8	+0.0	+0.4						
13	17235.000	40.2	+0.0	+0.0	+0.0	+0.0	-10.0	52.4	71.7	-19.3	Horiz
	M		+0.0	+12.5	-33.7	+1.5			X_802.11a_5745M		
	Ave		+41.6	+0.0	+0.3				Hz		

^	17235.000	57.0	+0.0	+0.0	+0.0	+0.0	-10.0	69.2	71.7	-2.5	Horiz
	M		+0.0	+12.5	-33.7	+1.5			X_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz		
^	17235.000	44.8	+0.0	+0.0	+0.0	+0.0	-10.0	57.0	71.7	-14.7	Horiz
	M		+0.0	+12.5	-33.7	+1.5			Y_802.11a_5745M		
			+41.6	+0.0	+0.3				Hz		
16	11528.330	38.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.3	71.7	-19.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11528.330	50.7	+0.0	+0.0	+0.0	+0.0	+0.0	64.7	71.7	-7.0	Horiz
	M		+0.0	+9.6	-35.9	+1.1			Z_802.11a_5765M		
			+38.8	+0.0	+0.4				Hz		
18	17289.000	39.7	+0.0	+0.0	+0.0	+0.0	-10.0	52.2	71.7	-19.5	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_802.11a_5765M		
	Ave		+41.8	+0.0	+0.3				Hz		
^	17289.000	54.1	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	71.7	-5.1	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_802.11a_5765M		
			+41.8	+0.0	+0.3				Hz		
20	11612.330	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	71.7	-20.4	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y-		
	Ave		+38.8	+0.0	+0.4				802.11a_5805MHz		
^	11612.330	49.4	+0.0	+0.0	+0.0	+0.0	+0.0	63.4	71.7	-8.3	Vert
	M		+0.0	+9.6	-35.9	+1.1			Y-		
			+38.8	+0.0	+0.4				802.11a_5805MHz		
22	11606.020	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	71.7	-20.4	Vert
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
	Ave		+38.8	+0.0	+0.4						
^	11606.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Vert
	M		+0.0	+9.6	-35.9	+1.1			X_5805MHz		
			+38.8	+0.0	+0.4						
24	17411.330	37.9	+0.0	+0.0	+0.0	+0.0	-10.0	51.1	71.7	-20.6	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_5805MHz		
	Ave		+42.4	+0.0	+0.4						
^	17411.330	53.4	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	71.7	-5.1	Horiz
	M		+0.0	+12.5	-33.6	+1.5			X_5805MHz		
			+42.4	+0.0	+0.4						
26	11490.000	37.0	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	71.7	-20.7	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_802.11a_5745M		
	Ave		+38.8	+0.0	+0.4				Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1			X_802.11a_5745M		
			+38.8	+0.0	+0.4				Hz		

^	11490.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	71.7	-17.4	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
29	17283.330	38.3	+0.0	+0.0	+0.0	+0.0	-10.0	50.8	71.7	-20.9	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
^	17283.330	52.6	+0.0	+0.0	+0.0	+0.0	-10.0	65.1	71.7	-6.6	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
31	11525.930	36.7	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	71.7	-21.0	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	47.2	+0.0	+0.0	+0.0	+0.0	+0.0	61.2	71.7	-10.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
33	6906.567M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.5	71.7	-21.2	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
34	11526.000	36.4	+0.0	+0.0	+0.0	+0.0	+0.0	50.4	71.7	-21.3	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	63.6	71.7	-8.1	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
36	11490.000	36.3	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	71.7	-21.4	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	65.5	71.7	-6.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	71.7	-9.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	58.2	71.7	-13.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5745M		
									Hz		
40	17421.670	36.1	+0.0	+0.0	+0.0	+0.0	-10.0	49.3	71.7	-22.4	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		

^	17421.670 M	47.3	+0.0 +0.0 +42.4	+0.0 +12.5 +0.0	+0.0 -33.6 +0.4	+0.0 +1.5	-10.0	60.5	71.7	-11.2	Horiz	Z_802.11a_5805M Hz
42	15600.000 M Ave	31.9	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	49.0	71.7	-22.7	Horiz	Z_802.11a_5200M Hz
43	6986.667M Ave	42.3	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	48.9	71.7	-22.8	Horiz	Z_802.11a_5240M Hz
44	15600.000 M Ave	31.7	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	48.8	71.7	-22.9	Horiz	Y_802.11a_5200M Hz
45	6906.650M Ave	42.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.5	71.7	-23.2	Vert	Y_802.11a_5180M Hz
^	6906.650M	46.3	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	52.7	71.7	-19.0	Vert	Y_802.11a_5180M Hz
47	6906.500M	42.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.5	71.7	-23.2	Vert	Z_802.11a_5180M Hz
48	15720.000 M Ave	31.0	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.4 +0.5	+0.0 +1.4	+0.0	48.3	71.7	-23.4	Horiz	Z_802.11a_5240M Hz
49	15600.000 M Ave	31.2	+0.0 +0.0 +38.0	+0.0 +11.8 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	48.3	71.7	-23.4	Vert	Y_802.11a_5200M Hz
50	10400.000 M Ave	36.3	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	48.2	71.7	-23.5	Horiz	Y_802.11a_5200M Hz
51	6933.497M Ave	41.8	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.2	71.7	-23.5	Horiz	Z_802.11a_5200M Hz
^	6933.497M	47.9	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	54.3	71.7	-17.4	Horiz	Z_802.11a_5200M Hz
53	6933.050M Ave	41.7	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.1	71.7	-23.6	Vert	Y_802.11a_5200M Hz
^	6933.050M	48.0	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	54.4	71.7	-17.3	Vert	Y_802.11a_5200M Hz
55	6986.533M Ave	41.4	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	48.0	71.7	-23.7	Vert	Y_802.11a_5240M Hz

^	6986.533M	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.3	71.7	-18.4	Vert
			+0.0	+6.7	-36.4	+0.8			Y_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
57	15542.500	30.7	+0.0	+0.0	+0.0	+0.0	+0.0	47.7	71.7	-24.0	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
^	15542.500	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	61.5	71.7	-10.2	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
59	11610.000	33.5	+0.0	+0.0	+0.0	+0.0	+0.0	47.5	71.7	-24.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	11610.000	45.4	+0.0	+0.0	+0.0	+0.0	+0.0	59.4	71.7	-12.3	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
61	17235.820	24.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.1	71.7	-24.6	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Z_802.11a_5745M		
									Hz		
^	17235.820	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	59.5	71.7	-12.2	Vert
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				Z_802.11a_5745M		
									Hz		
63	17235.000	34.9	+0.0	+0.0	+0.0	+0.0	-10.0	47.1	71.7	-24.6	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				X_802.11a_5745M		
									Hz		
^	17235.000	46.6	+0.0	+0.0	+0.0	+0.0	-10.0	58.8	71.7	-12.9	Vert
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				X_802.11a_5745M		
									Hz		
65	11490.000	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	71.7	-24.9	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5745M		
									Hz		
66	10400.000	34.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.7	71.7	-25.0	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
67	17289.000	34.1	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	71.7	-25.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		
^	17289.000	45.4	+0.0	+0.0	+0.0	+0.0	-10.0	57.9	71.7	-13.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		



69	17292.220	34.0	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	71.7	-25.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.220	45.5	+0.0	+0.0	+0.0	+0.0	-10.0	58.1	71.7	-13.6	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
71	11529.330	32.6	+0.0	+0.0	+0.0	+0.0	+0.0	46.6	71.7	-25.1	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5765M		
									Hz		
72	17230.500	34.3	+0.0	+0.0	+0.0	+0.0	-10.0	46.5	71.7	-25.2	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
^	17230.500	46.2	+0.0	+0.0	+0.0	+0.0	-10.0	58.4	71.7	-13.3	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
74	17415.000	23.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.2	71.7	-25.5	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	17415.000	33.7	+0.0	+0.0	+0.0	+0.0	+0.0	56.9	71.7	-14.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
76	15540.000	28.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	71.7	-25.8	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	40.9	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.5	71.7	-15.2	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
79	11527.800	31.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	71.7	-25.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
^	11527.800	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	71.7	-12.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
81	15720.000	28.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	71.7	-26.1	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		

82	17292.800	33.0	+0.0	+0.0	+0.0	+0.0	-10.0	45.6	71.7	-26.1	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.800	45.9	+0.0	+0.0	+0.0	+0.0	-10.0	58.5	71.7	-13.2	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
84	10480.000	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	71.7	-26.1	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
85	10359.830	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.5	71.7	-26.2	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
^	10359.830	48.0	+0.0	+0.0	+0.0	+0.0	+0.0	59.9	71.7	-11.8	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
87	15600.000	28.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	71.7	-26.5	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
^	15600.000	42.2	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	71.7	-12.4	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
^	15600.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	71.7	-14.3	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
90	10400.000	33.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	71.7	-26.5	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	46.0	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	40.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	71.7	-19.3	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		
93	10480.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	58.7	71.7	-13.0	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		

^	10480.000	45.9	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	71.7	-13.8	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	71.7	-14.9	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3						
									Y_802.11a_5240M		
									Hz		
97	10358.500	33.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3						
									X_802.11a_5180M		
									Hz		
^	10358.500	47.0	+0.0	+0.0	+0.0	+0.0	+0.0	58.9	71.7	-12.8	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3						
									X_802.11a_5180M		
									Hz		
99	11610.000	31.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	71.7	-26.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4						
									Y-		
									802.11a_5805MHz		
^	11610.000	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	57.1	71.7	-14.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4						
									Y-		
									802.11a_5805MHz		
101	10479.000	33.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	71.7	-26.7	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3						
									Z_802.11a_5240M		
									Hz		
^	10479.000	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	71.7	-12.9	Vert
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3						
									Z_802.11a_5240M		
									Hz		
103	10358.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	71.7	-26.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3						
									X_802.11a_5180M		
									Hz		
^	10358.000	47.4	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	71.7	-12.4	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3						
									X_802.11a_5180M		
									Hz		
105	17415.000	31.8	+0.0	+0.0	+0.0	+0.0	-10.0	45.0	71.7	-26.7	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4						
									Y-		
									802.11a_5805MHz		
^	17415.000	44.3	+0.0	+0.0	+0.0	+0.0	-10.0	57.5	71.7	-14.2	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4						
									Y-		
									802.11a_5805MHz		
107	17411.330	31.7	+0.0	+0.0	+0.0	+0.0	-10.0	44.9	71.7	-26.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4						
									X_5805MHz		

^	17411.330	42.1	+0.0	+0.0	+0.0	+0.0	-10.0	55.3	71.7	-16.4	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				X_5805MHz		
109	17416.170	31.6	+0.0	+0.0	+0.0	+0.0	-10.0	44.8	71.7	-26.9	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	17416.170	41.1	+0.0	+0.0	+0.0	+0.0	-10.0	54.3	71.7	-17.4	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
111	17301.000	21.9	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	71.7	-27.2	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
^	17301.000	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	71.7	-16.3	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+41.9	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
113	10480.000	32.4	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	71.7	-27.3	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		
114	10480.000	32.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	71.7	-27.4	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	43.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	71.7	-16.3	Vert
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
116	15720.000	26.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	71.7	-27.6	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	38.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	71.7	-15.6	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	38.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.7	71.7	-16.0	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
119	15720.000	26.7	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	60.5	71.7	-11.2	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		

^	15720.000	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.7	71.7	-14.0	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
^	15720.000	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	71.7	-14.9	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
123	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	39.1	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	71.7	-15.6	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
125	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	71.7	-27.7	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
126	11490.000	29.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	71.7	-28.2	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
127	15538.580	26.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	71.7	-28.2	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
^	15538.580	38.0	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	71.7	-16.7	Vert
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
129	10399.170	31.4	+0.0	+0.0	+0.0	+0.0	+0.0	43.3	71.7	-28.4	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
^	10399.170	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	71.7	-16.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
131	15720.000	25.6	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	71.7	-28.8	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
132	6986.667M	36.2	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	71.7	-28.9	Vert
	Ave		+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
^	6986.667M	42.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.5	71.7	-22.2	Vert
			+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		

134	10360.000	30.9	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	71.7	-28.9	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		
^	10360.000	42.8	+0.0	+0.0	+0.0	+0.0	+0.0	54.7	71.7	-17.0	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		
136	550.000M	47.3	+0.0	+18.4	+0.4	+4.3	+0.0	42.8	71.7	-28.9	Horiz
	QP		-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
137	15600.000	25.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.6	71.7	-29.1	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
^	15600.000	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	62.4	71.7	-9.3	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
^	15600.000	42.7	+0.0	+0.0	+0.0	+0.0	+0.0	59.8	71.7	-11.9	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
^	15600.000	38.1	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	71.7	-16.5	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
141	15602.500	25.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.6	71.7	-29.1	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
^	15602.500	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	54.4	71.7	-17.3	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
143	10483.330	30.6	+0.0	+0.0	+0.0	+0.0	+0.0	42.6	71.7	-29.1	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		
^	10483.330	44.7	+0.0	+0.0	+0.0	+0.0	+0.0	56.7	71.7	-15.0	Vert
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		
145	15719.000	25.2	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	71.7	-29.2	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		
^	15719.000	36.2	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	71.7	-18.2	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		

147	550.000M QP	47.0	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	42.5	71.7	-29.2	Horiz
^	550.000M	49.6	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	45.1	71.7	-26.6	Horiz
^	550.000M	48.3	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	43.8	71.7	-27.9	Horiz
^	549.998M	36.4	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	31.9	71.7	-39.8	Horiz
151	6933.483M Ave	36.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	42.5	71.7 Z_802.11a_5200M Hz	-29.2	Vert
^	6933.483M	44.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	50.5	71.7 Z_802.11a_5200M Hz	-21.2	Vert
153	10360.000 M Ave	30.5	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.4	71.7 Z_802.11a_5180M Hz	-29.3	Vert
154	15538.580 M Ave	25.4	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	42.4	71.7 X_802.11a_5180M Hz	-29.3	Horiz
^	15538.580 M	37.1	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	54.1	71.7 X_802.11a_5180M Hz	-17.6	Horiz
156	10400.000 M Ave	30.4	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.3	71.7 Y_802.11a_5200M Hz	-29.4	Vert
157	17235.000 M Ave	30.1	+0.0 +0.0 +41.6	+0.0 +12.5 +0.0	+0.0 -33.7 +0.3	+0.0 +1.5	-10.0	42.3	71.7 Y_802.11a_5745M Hz	-29.4	Horiz
158	10360.000 M Ave	30.3	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.2	71.7 Y_802.11a_5180M Hz	-29.5	Vert
^	10360.000 M	43.3	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	55.2	71.7 Z_802.11a_5180M Hz	-16.5	Vert
^	10360.000 M	43.3	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	55.2	71.7 Y_802.11a_5180M Hz	-16.5	Vert

161	800.000M QP	40.3	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	41.3	71.7	-30.4	Horiz
^	800.000M	43.3	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	44.3	71.7	-27.4	Horiz
^	800.000M	41.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	42.6	71.7	-29.1	Horiz
^	800.010M	40.1	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	41.1	71.7	-30.6	Horiz
165	6933.333M Ave	34.5	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8 +0.5	+0.0	40.9	71.7 Y_802.11a_5200M Hz	-30.8	Horiz
^	6933.333M	42.4	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8 +0.5	+0.0	48.8	71.7 Y_802.11a_5200M Hz	-22.9	Horiz
167	10400.000 M Ave	28.9	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0 +0.3	+0.0	40.8	71.7 X_802.11a_5200M Hz	-30.9	Horiz
^	10400.000 M	48.7	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0 +0.3	+0.0	60.6	71.7 Z_802.11a_5200M Hz	-11.1	Horiz
^	10400.000 M	46.5	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0 +0.3	+0.0	58.4	71.7 Y_802.11a_5200M Hz	-13.3	Horiz
^	10400.000 M	42.6	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0 +0.3	+0.0	54.5	71.7 X_802.11a_5200M Hz	-17.2	Horiz
171	6906.500M Ave	34.0	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8 +0.5	+0.0	40.4	71.7 Y_802.11a_5180M Hz	-31.3	Horiz
^	6906.567M	47.6	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8 +0.5	+0.0	54.0	71.7 Z_802.11a_5180M Hz	-17.7	Horiz
^	6906.500M	43.5	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8 +0.5	+0.0	49.9	71.7 Y_802.11a_5180M Hz	-21.8	Horiz
174	6986.633M Ave	33.8	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8 +0.5	+0.0	40.4	71.7 Y_802.11a_5240M Hz	-31.3	Horiz
^	6986.667M	47.0	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8 +0.5	+0.0	53.6	71.7 Z_802.11a_5240M Hz	-18.1	Horiz
^	6986.633M	42.6	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8 +0.5	+0.0	49.2	71.7 Y_802.11a_5240M Hz	-22.5	Horiz



177	258.970M	44.6	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	39.5	71.7	-32.2	Horiz
178	256.990M	44.7	+19.3 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	39.4	71.7	-32.3	Horiz
179	22973.330 M Ave	40.4	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7 +0.0	-10.0	39.4	71.7	-32.3	Vert
^	22973.330 M	54.0	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7 +0.0	-10.0	53.0	71.7	-18.7	Vert
181	257.010M	44.6	+19.3 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	39.3	71.7	-32.4	Vert
182	259.030M	44.2	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	39.1	71.7	-32.6	Vert
183	550.000M QP	43.4	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	38.9	71.7	-32.8	Vert
^	550.000M	45.2	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	40.7	71.7	-31.0	Vert
^	550.000M	42.0	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	37.5	71.7	-34.2	Vert
^	550.000M	41.2	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0 +0.0	+0.0	36.7	71.7	-35.0	Vert
187	800.000M QP	37.7	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	38.7	71.7	-33.0	Vert
^	800.000M	40.9	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	41.9	71.7	-29.8	Vert
^	800.000M	39.9	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	40.9	71.7	-30.8	Vert
^	800.000M	37.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	38.6	71.7	-33.1	Vert
191	375.001M	45.2	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	38.6	71.7	-33.1	Vert
192	464.949M	45.0	+0.0 -27.8 +0.0	+16.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	38.2	71.7	-33.5	Vert
193	251.020M	44.0	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	38.0	71.7	-33.7	Horiz

194	251.010M	43.9	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	37.9	71.7	-33.8	Vert
195	849.960M	35.4	+0.0 -27.0 +0.0	+23.2 +0.0 +0.0	+0.7 +0.0 +0.0	+5.5 +0.0 +0.0	+0.0	37.8	71.7	-33.9	Horiz
196	250.990M	43.6	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	37.6	71.7	-34.1	Horiz
197	800.010M QP	36.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	37.6	71.7	-34.1	Horiz
198	23226.670 M Ave	38.6	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7 +0.0	-10.0	37.6	71.7	-34.1	Vert
^	23226.670 M	51.1	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7 +0.0	-10.0	50.1	71.7	-21.6	Vert
200	449.983M	44.1	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	37.0	71.7	-34.7	Horiz
201	900.000M	33.8	+0.0 -27.2 +0.0	+23.8 +0.0 +0.0	+0.7 +0.0 +0.0	+5.7 +0.0 +0.0	+0.0	36.8	71.7	-34.9	Vert
202	267.020M	40.9	+20.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	36.6	71.7	-35.1	Horiz
203	23063.330 M Ave	37.5	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7 +0.0	-10.0	36.5	71.7	-35.2	Vert
^	23063.330 M	49.3	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7 +0.0	-10.0	48.3	71.7	-23.4	Vert
205	225.020M	43.4	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	36.3	71.7	-35.4	Vert
206	449.966M	43.2	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	36.1	71.7	-35.6	Vert
207	399.966M QP	44.0	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	35.9	71.7	-35.8	Vert
^	399.966M	47.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	39.3	71.7	-32.4	Vert
209	700.000M	34.2	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	35.8	71.7	-35.9	Vert
210	225.000M	42.8	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	35.7	71.7	-36.0	Horiz

211	500.000M	41.5	+0.0	+17.4	+0.4	+4.1	+0.0	35.6	71.7	-36.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
212	349.994M	40.5	+0.0	+18.9	+0.3	+3.3	+0.0	35.2	71.7	-36.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
213	20973.330 M	36.7	+0.0	+0.0	+0.0	+0.0	-10.0	35.0	71.7	-36.7	Vert
			+0.0	+0.0	-32.9	+1.6					
	Ave		+0.0	+39.6	+0.0						
^	20973.330 M	54.4	+0.0	+0.0	+0.0	+0.0	-10.0	52.7	71.7	-19.0	Vert
			+0.0	+0.0	-32.9	+1.6					
			+0.0	+39.6	+0.0						
215	124.510M	44.9	+15.9	+0.0	+0.2	+1.8	+0.0	34.9	71.7	-36.8	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
216	700.017M	33.2	+0.0	+23.5	+0.5	+4.9	+0.0	34.8	71.7	-36.9	Horiz
			-27.3	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
217	599.983M	37.7	+0.0	+19.4	+0.5	+4.5	+0.0	34.7	71.7	-37.0	Horiz
			-27.4	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
218	399.992M	42.4	+0.0	+15.7	+0.4	+3.6	+0.0	34.3	71.7	-37.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
219	250.980M	40.3	+18.6	+0.0	+0.3	+2.8	+0.0	34.3	71.7	-37.4	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
220	900.010M	31.2	+0.0	+23.8	+0.7	+5.7	+0.0	34.2	71.7	-37.5	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
221	292.520M	35.8	+22.8	+0.0	+0.3	+3.0	+0.0	34.1	71.7	-37.6	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
222	279.010M	37.2	+21.5	+0.0	+0.3	+2.9	+0.0	34.1	71.7	-37.6	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
223	400.007M	42.0	+0.0	+15.7	+0.4	+3.6	+0.0	33.9	71.7	-37.8	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
224	375.000M	40.2	+0.0	+17.3	+0.4	+3.5	+0.0	33.6	71.7	-38.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
225	20800.000 M	35.0	+0.0	+0.0	+0.0	+0.0	-10.0	33.3	71.7	-38.4	Vert
			+0.0	+0.0	-32.9	+1.6					
	Ave		+0.0	+39.6	+0.0						
^	20800.000 M	45.4	+0.0	+0.0	+0.0	+0.0	-10.0	43.7	71.7	-28.0	Vert
			+0.0	+0.0	-32.9	+1.6					
			+0.0	+39.6	+0.0						
227	442.999M	40.5	+0.0	+16.5	+0.3	+3.8	+0.0	33.3	71.7	-38.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

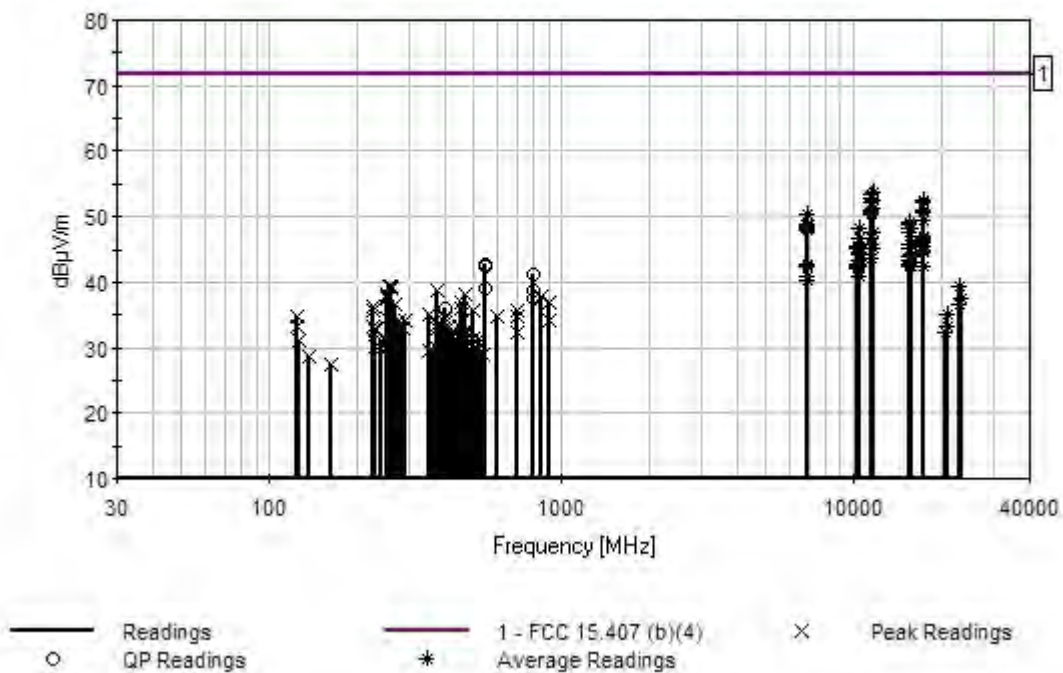
228	415.030M	41.0	+0.0 -27.8 +0.0	+16.0 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	33.3	71.7	-38.4	Vert
229	384.033M	40.5	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	33.3	71.7	-38.4	Horiz
230	224.960M	40.2	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	33.1	71.7	-38.6	Horiz
231	123.840M	43.2	+15.8 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0	33.1	71.7	-38.6	Vert
232	374.083M	39.9	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	33.1	71.7	-38.6	Horiz
233	287.000M	35.4	+22.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	33.1	71.7	-38.6	Vert
234	475.883M	39.4	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	33.0	71.7	-38.7	Horiz
235	473.982M	39.5	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	32.9	71.7	-38.8	Vert
236	229.010M	39.8	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	32.8	71.7	-38.9	Vert
237	424.075M	40.1	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	32.5	71.7	-39.2	Horiz
238	229.030M	39.5	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	32.5	71.7	-39.2	Horiz
239	700.033M	30.8	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	32.4	71.7	-39.3	Horiz
240	427.049M	39.9	+0.0 -27.8 +0.0	+16.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	32.3	71.7	-39.4	Vert
241	20720.000 M	33.8	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.8 +0.0	+0.0 +1.6 +0.0	-10.0	32.2	71.7	-39.5	Vert
^	20720.000 M	48.2	+0.0 +0.0 +0.0	+0.0 +0.0 +39.6	+0.0 -32.8 +0.0	+0.0 +1.6 +0.0	-10.0	46.6	71.7	-25.1	Vert
243	259.005M	37.0	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	31.9	71.7	-39.8	Vert
244	456.966M	38.9	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	31.9	71.7	-39.8	Vert

245	499.997M	37.3	+0.0 -27.8 +0.0	+17.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	31.4	71.7	-40.3	Horiz
246	524.942M	36.6	+0.0 -27.7 +0.0	+17.9 +0.0 +0.0	+0.4 +0.0 +0.0	+4.2 +0.0 +0.0	+0.0	31.4	71.7	-40.3	Horiz
247	450.008M	38.3	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	31.2	71.7	-40.5	Horiz
248	464.433M	38.0	+0.0 -27.8 +0.0	+16.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	31.2	71.7	-40.5	Horiz
249	126.130M	40.9	+16.2 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0	31.2	71.7	-40.5	Horiz
250	426.200M	38.8	+0.0 -27.8 +0.0	+16.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	31.2	71.7	-40.5	Vert
251	432.930M	38.6	+0.0 -27.8 +0.0	+16.3 +0.0 +0.0	+0.3 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	31.1	71.7	-40.6	Vert
252	240.990M	37.6	+18.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.7 +0.0 +0.0	+0.0	31.1	71.7	-40.6	Vert
253	251.010M	37.1	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	31.1	71.7	-40.6	Vert
254	424.100M	38.1	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	30.5	71.7	-41.2	Vert
255	228.950M	37.3	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	30.3	71.7	-41.4	Vert
256	367.550M	36.4	+0.0 -27.8 +0.0	+17.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	30.1	71.7	-41.6	Vert
257	255.020M	35.7	+19.0 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	30.1	71.7	-41.6	Vert
258	241.000M	36.5	+18.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.7 +0.0 +0.0	+0.0	30.0	71.7	-41.7	Vert
259	269.010M	34.1	+20.5 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	30.0	71.7	-41.7	Vert
260	386.442M	37.3	+0.0 -27.8 +0.0	+16.5 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	29.9	71.7	-41.8	Horiz
261	510.970M	35.6	+0.0 -27.8 +0.0	+17.6 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	29.9	71.7	-41.8	Vert

262	364.900M	35.9	+0.0	+17.9	+0.3	+3.4	+0.0	29.7	71.7	-42.0	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
263	352.017M	35.0	+0.0	+18.8	+0.3	+3.3	+0.0	29.6	71.7	-42.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
264	491.970M	35.6	+0.0	+17.3	+0.4	+4.1	+0.0	29.6	71.7	-42.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
265	515.066M	34.9	+0.0	+17.7	+0.4	+4.2	+0.0	29.5	71.7	-42.2	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
266	380.983M	36.5	+0.0	+16.9	+0.4	+3.5	+0.0	29.5	71.7	-42.2	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
267	476.275M	35.8	+0.0	+17.0	+0.4	+4.0	+0.0	29.4	71.7	-42.3	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
268	523.770M	34.3	+0.0	+17.9	+0.4	+4.2	+0.0	29.1	71.7	-42.6	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
269	480.130M	35.2	+0.0	+17.1	+0.4	+4.0	+0.0	28.9	71.7	-42.8	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
270	542.030M	33.5	+0.0	+18.3	+0.4	+4.3	+0.0	28.9	71.7	-42.8	Vert
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
271	437.449M	36.1	+0.0	+16.4	+0.3	+3.8	+0.0	28.8	71.7	-42.9	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
272	375.418M	35.4	+0.0	+17.2	+0.4	+3.5	+0.0	28.7	71.7	-43.0	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
273	137.190M	36.8	+17.6	+0.0	+0.3	+1.9	+0.0	28.7	71.7	-43.0	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
274	436.950M	36.0	+0.0	+16.4	+0.3	+3.8	+0.0	28.7	71.7	-43.0	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
275	410.999M	36.5	+0.0	+15.9	+0.4	+3.6	+0.0	28.6	71.7	-43.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
276	393.017M	36.3	+0.0	+16.1	+0.4	+3.6	+0.0	28.6	71.7	-43.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
277	467.370M	35.0	+0.0	+16.9	+0.3	+3.9	+0.0	28.3	71.7	-43.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
278	524.283M	33.2	+0.0	+17.9	+0.4	+4.2	+0.0	28.0	71.7	-43.7	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

279	369.690M	34.1	+0.0	+17.6	+0.3	+3.4	+0.0	27.6	71.7	-44.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
280	450.563M	34.6	+0.0	+16.6	+0.3	+3.8	+0.0	27.5	71.7	-44.2	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
281	163.090M	34.5	+18.5	+0.0	+0.3	+2.1	+0.0	27.5	71.7	-44.2	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
282	462.825M	33.4	+0.0	+16.8	+0.3	+3.9	+0.0	26.6	71.7	-45.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
283	487.366M	32.8	+0.0	+17.2	+0.4	+4.0	+0.0	26.6	71.7	-45.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
284	379.917M	33.4	+0.0	+17.0	+0.4	+3.5	+0.0	26.5	71.7	-45.2	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
285	502.966M	32.2	+0.0	+17.5	+0.4	+4.1	+0.0	26.4	71.7	-45.3	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
286	420.017M	34.0	+0.0	+16.1	+0.4	+3.7	+0.0	26.4	71.7	-45.3	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

CKC Laboratories, Inc. Date: 2/2/2010 Time: 13:43:58 Silix Technology, America, Inc. WO#: 90303  
 FCC 15.407 (b)(4) Test Distance: 3 Meters Sequence#: 7  
 SX-SDCAG



**Limit Line Calculations for Antenna Manufactured by Pulse:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 4.2 dBi = 2.6 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002 \times 30 \times 2.6}}{3}$$

E = 0.004163v = 72.3dBuV/m @ 3m.



**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 15.407 (b)(4)**  
 Work Order #: **90303** Date: 3/1/2010  
 Test Type: **Radiated Scan** Time: 10:50:45  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 53  
 Manufacturer: **Silex Technology America, Inc.** Tested By: E. Wong  
 Model: **SX-SDCAG**  
 S/N: **ED**

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
HeliAx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
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	09/21/2009	09/21/2011	P2948

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	ED

***Support Devices:***

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Modulation: 802.11 a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Pulse

Antenna Gain: 3.2dBi @2.5GHz

Antenna Gain: 4.2dBi @5.0GHz

Transmit via Antenna #1

17°C, 41% relative humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated. Maximization of worse case emission measured with Ethertronics antenna installed.

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=Helix Cable 54' ANP05565 090410	T2=HF_pre AMP-1-26GHz_AN00786-072810.TRN
T3=Hi Freq_40GHz_2ft-AN02948-092111	T4=Horn Ant AN00849 060610
T5=HPF_3GHz-AN02744-032510	T6=HPF_6GHz-AN02755-032510

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5	T6			Table	dBμV/m	dBμV/m	dB	Ant
			dB	dB	dB	dB					
1	10360.130 M	51.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	63.5	72.3	-8.8	Horiz
									Z_802.11a		
2	10479.670 M	50.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.5	72.3	-9.8	Horiz
									X_802.11a		
3	10400.600 M	50.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.0	72.3	-10.3	Horiz
									X_802.11a		

4	10360.200 M	49.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.8	72.3	-10.5	Horiz
									X_802.11a		
5	10360.330 M	49.7	+8.8 +0.4	-36.2 +0.0	+1.0	+38.0	+0.0	61.7	72.3	-10.6	Vert
									X_802.11a		
6	10400.930 M	49.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.5	72.3	-10.8	Horiz
									Z_802.11a		
7	17295.000 M	38.1	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.7	72.3	-11.6	Vert
									X_802.11a		
8	17235.750 M	38.4	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	60.6	72.3	-11.7	Vert
									X_802.11a		
9	10479.670 M	48.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	60.5	72.3	-11.8	Vert
									X_802.11a		
10	17295.000 M	37.8	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.4	72.3	-11.9	Vert
									Y_802.11a		
11	17294.920 M	37.4	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.0	72.3	-12.3	Vert
									Z_802.11a		
12	17295.000 M	37.3	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.9	72.3	-12.4	Horiz
									X_802.11a		
13	10479.670 M	47.7	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.7	72.3	-12.6	Vert
									Z_802.11a		
14	17295.000 M	36.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.5	72.3	-12.8	Horiz
									Z_802.11a		
15	10479.670 M	47.2	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	72.3	-13.1	Vert
									Y_802.11a		
16	17235.750 M	37.0	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	59.2	72.3	-13.1	Vert
									Z_802.11a		
17	10360.500 M	47.3	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	72.3	-13.1	Horiz
									Y_802.11a		
18	10400.930 M	47.2	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.1	72.3	-13.2	Vert
									X_802.11a		
19	17235.750 M	36.7	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.9	72.3	-13.4	Horiz
									Z_802.11a		
20	10360.130 M	46.8	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	58.7	72.3	-13.6	Vert
									Z_802.11a		

21	17295.000 M	35.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	58.5	72.3	-13.8	Horiz
									Y_802.11a		
22	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	72.3	-14.0	Vert
									Y_802.11a		
23	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	72.3	-14.0	Horiz
									Y_802.11a		
24	17235.750 M	35.9	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.1	72.3	-14.2	Horiz
									X_802.11a		
25	10479.670 M	45.9	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.9	72.3	-14.4	Horiz
									Y_802.11a		
26	10400.930 M	45.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.8	72.3	-14.5	Horiz
									Y_802.11a		
27	10479.670 M	45.6	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.6	72.3	-14.7	Horiz
									Z_802.11a		
28	10400.930 M	44.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	56.0	72.3	-16.3	Vert
									Z_802.11a		
29	10400.930 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	72.3	-16.8	Vert
									Y_802.11a		
30	10360.170 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	72.3	-16.8	Vert
									Y_802.11a		
31	17416.140 M	31.7	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.9	72.3	-17.4	Horiz
									Y_802.11a		
32	17413.600 M	31.1	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.3	72.3	-18.0	Vert
									Z_802.11a		
33	17416.140 M	31.0	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.2	72.3	-18.1	Horiz
									X_802.11a		
34	17416.140 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	72.3	-18.2	Vert
									X_802.11a		
35	17413.560 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	72.3	-18.2	Vert
									Y_802.11a		
36	17420.250 M	29.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	53.1	72.3	-19.2	Horiz
									Z_802.11a		
37	11611.340 M Ave	35.7	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	49.7	72.3	-22.6	Vert
									X_802.11a		

^	11611.340	48.1	+9.6	-35.9	+1.1	+38.8	+0.0	62.1	72.3	-10.2	Vert
	M		+0.0	+0.4							
									X_802.11a		
39	11615.450	34.7	+9.6	-35.9	+1.1	+38.8	+0.0	48.7	72.3	-23.6	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11615.450	49.2	+9.6	-35.9	+1.1	+38.8	+0.0	63.2	72.3	-9.1	Horiz
	M		+0.0	+0.4							
									Z_802.11a		
41	11611.340	34.6	+9.6	-35.9	+1.1	+38.8	+0.0	48.6	72.3	-23.7	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
42	11608.760	34.1	+9.6	-35.9	+1.1	+38.8	+0.0	48.1	72.3	-24.2	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
^	11608.760	45.7	+9.6	-35.9	+1.1	+38.8	+0.0	59.7	72.3	-12.6	Vert
	M		+0.0	+0.4							
									Y_802.11a		
44	11610.500	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	72.3	-24.4	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11610.500	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	72.3	-11.4	Vert
	M		+0.0	+0.4							
									Z_802.11a		
46	11611.340	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	72.3	-24.4	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11611.340	47.6	+9.6	-35.9	+1.1	+38.8	+0.0	61.6	72.3	-10.7	Horiz
	M		+0.0	+0.4							
									Y_802.11a		
^	11611.340	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	72.3	-11.4	Horiz
	M		+0.0	+0.4							
									X_802.11a		
49	15601.400	28.0	+11.8	-34.6	+1.4	+38.0	+0.0	45.1	72.3	-27.2	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
50	11530.000	30.7	+9.6	-35.9	+1.1	+38.8	+0.0	44.7	72.3	-27.6	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
51	15601.400	27.4	+11.8	-34.6	+1.4	+38.0	+0.0	44.5	72.3	-27.8	Horiz
	M		+0.0	+0.5							
	Ave								Y_802.11a		
52	11530.000	30.5	+9.6	-35.9	+1.1	+38.8	+0.0	44.5	72.3	-27.8	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11530.000	44.2	+9.6	-35.9	+1.1	+38.8	+0.0	58.2	72.3	-14.1	Vert
	M		+0.0	+0.4							
									Z_802.11a		
^	11530.000	43.8	+9.6	-35.9	+1.1	+38.8	+0.0	57.8	72.3	-14.5	Vert
	M		+0.0	+0.4							
									Y_802.11a		

^	11530.000	42.0	+9.6	-35.9	+1.1	+38.8	+0.0	56.0	72.3	-16.3	Vert
	M		+0.0	+0.4							
									X_802.11a		
56	11490.500	30.3	+9.6	-35.9	+1.1	+38.8	+0.0	44.3	72.3	-28.0	Vert
	M		+0.0	+0.4							
	Ave								Y_802.11a		
57	11490.500	30.1	+9.6	-35.9	+1.1	+38.8	+0.0	44.1	72.3	-28.2	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
58	11490.500	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	72.3	-28.3	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
59	11530.000	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	72.3	-28.3	Horiz
	M		+0.0	+0.4							
	Ave								Y_802.11a		
60	11530.000	29.6	+9.6	-35.9	+1.1	+38.8	+0.0	43.6	72.3	-28.7	Horiz
	M		+0.0	+0.4							
	Ave								Z_802.11a		
^	11530.000	43.3	+9.6	-35.9	+1.1	+38.8	+0.0	57.3	72.3	-15.0	Horiz
	M		+0.0	+0.4							
									Z_802.11a		
^	11530.000	41.7	+9.6	-35.9	+1.1	+38.8	+0.0	55.7	72.3	-16.6	Horiz
	M		+0.0	+0.4							
									Y_802.11a		
^	11530.000	38.5	+9.6	-35.9	+1.1	+38.8	+0.0	52.5	72.3	-19.8	Horiz
	M		+0.0	+0.4							
									X_802.11a		
64	15540.290	26.4	+11.7	-34.6	+1.4	+38.0	+0.0	43.4	72.3	-28.9	Horiz
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15540.330	39.4	+11.7	-34.6	+1.4	+38.0	+0.0	56.4	72.3	-15.9	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
^	15540.300	38.8	+11.7	-34.6	+1.4	+38.0	+0.0	55.8	72.3	-16.5	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15540.370	36.9	+11.7	-34.6	+1.4	+38.0	+0.0	53.9	72.3	-18.4	Horiz
	M		+0.0	+0.5							
									X_802.11a		
68	15601.400	26.2	+11.8	-34.6	+1.4	+38.0	+0.0	43.3	72.3	-29.0	Horiz
	M		+0.0	+0.5							
	Ave								Z_802.11a		
69	15540.330	26.1	+11.7	-34.6	+1.4	+38.0	+0.0	43.1	72.3	-29.2	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
70	15540.330	25.4	+11.7	-34.6	+1.4	+38.0	+0.0	42.4	72.3	-29.9	Horiz
	M		+0.0	+0.5							
	Ave								Y_802.11a		
71	15540.330	25.3	+11.7	-34.6	+1.4	+38.0	+0.0	42.3	72.3	-30.0	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		

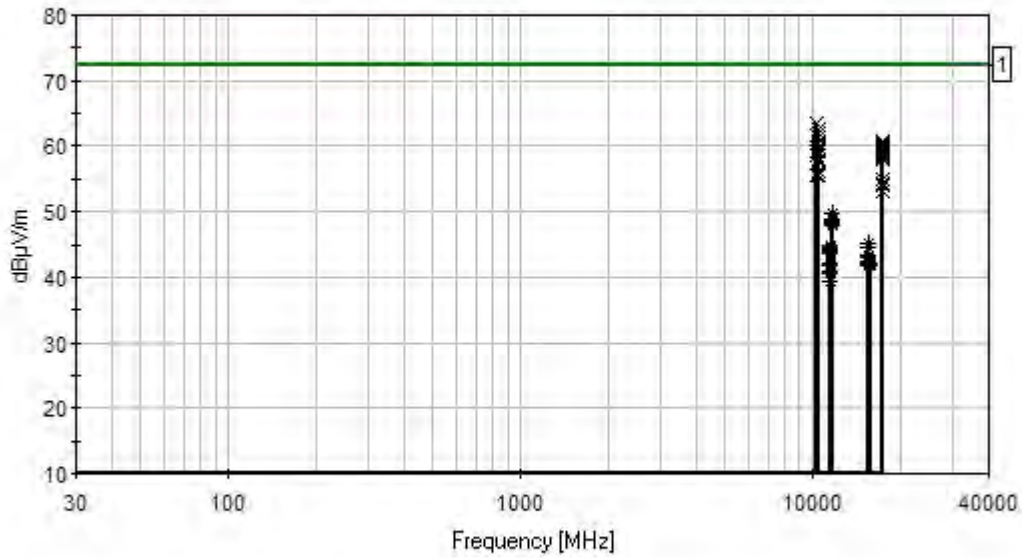
72	15601.400	25.2	+11.8	-34.6	+1.4	+38.0	+0.0	42.3	72.3	-30.0	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		
^	15601.400	40.1	+11.8	-34.6	+1.4	+38.0	+0.0	57.2	72.3	-15.1	Vert
	M		+0.0	+0.5							
									Z_802.11a		
^	15601.400	39.0	+11.8	-34.6	+1.4	+38.0	+0.0	56.1	72.3	-16.2	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	72.3	-16.8	Vert
	M		+0.0	+0.5							
									X_802.11a		
76	15601.400	25.1	+11.8	-34.6	+1.4	+38.0	+0.0	42.2	72.3	-30.1	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
77	15540.300	25.2	+11.7	-34.6	+1.4	+38.0	+0.0	42.2	72.3	-30.1	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15540.330	40.9	+11.7	-34.6	+1.4	+38.0	+0.0	57.9	72.3	-14.4	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15540.300	37.8	+11.7	-34.6	+1.4	+38.0	+0.0	54.8	72.3	-17.5	Vert
	M		+0.0	+0.5							
									Z_802.11a		
^	15540.330	35.3	+11.7	-34.6	+1.4	+38.0	+0.0	52.3	72.3	-20.0	Vert
	M		+0.0	+0.5							
									X_802.11a		
81	15719.330	24.8	+11.8	-34.4	+1.4	+38.0	+0.0	42.1	72.3	-30.2	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		
82	15601.400	25.0	+11.8	-34.6	+1.4	+38.0	+0.0	42.1	72.3	-30.2	Horiz
	M		+0.0	+0.5							
	Ave								X_802.11a		
^	15601.400	40.8	+11.8	-34.6	+1.4	+38.0	+0.0	57.9	72.3	-14.4	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	72.3	-16.8	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15601.400	37.4	+11.8	-34.6	+1.4	+38.0	+0.0	54.5	72.3	-17.8	Horiz
	M		+0.0	+0.5							
									X_802.11a		
86	11490.500	28.1	+9.6	-35.9	+1.1	+38.8	+0.0	42.1	72.3	-30.2	Vert
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11490.500	45.9	+9.6	-35.9	+1.1	+38.8	+0.0	59.9	72.3	-12.4	Vert
	M		+0.0	+0.4							
									Y_802.11a		
^	11490.500	44.0	+9.6	-35.9	+1.1	+38.8	+0.0	58.0	72.3	-14.3	Vert
	M		+0.0	+0.4							
									X_802.11a		

^	11490.500	42.3	+9.6	-35.9	+1.1	+38.8	+0.0	56.3	72.3	-16.0	Vert
	M		+0.0	+0.4					Z_802.11a		
90	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Vert
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15719.330	38.1	+11.8	-34.4	+1.4	+38.0	+0.0	55.4	72.3	-16.9	Vert
	M		+0.0	+0.5					Y_802.11a		
^	15719.330	37.5	+11.8	-34.4	+1.4	+38.0	+0.0	54.8	72.3	-17.5	Vert
	M		+0.0	+0.5					X_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	72.3	-17.6	Vert
	M		+0.0	+0.5					Z_802.11a		
94	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Vert
	M		+0.0	+0.5					Y_802.11a		
	Ave										
95	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Horiz
	M		+0.0	+0.5					X_802.11a		
	Ave										
96	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	72.3	-30.3	Horiz
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15719.330	39.6	+11.8	-34.4	+1.4	+38.0	+0.0	56.9	72.3	-15.4	Horiz
	M		+0.0	+0.5					Z_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	72.3	-17.6	Horiz
	M		+0.0	+0.5					X_802.11a		
^	15719.330	36.8	+11.8	-34.4	+1.4	+38.0	+0.0	54.1	72.3	-18.2	Horiz
	M		+0.0	+0.5					Y_802.11a		
100	15719.330	24.6	+11.8	-34.4	+1.4	+38.0	+0.0	41.9	72.3	-30.4	Horiz
	M		+0.0	+0.5					Y_802.11a		
	Ave										
101	11530.000	27.9	+9.6	-35.9	+1.1	+38.8	+0.0	41.9	72.3	-30.4	Vert
	M		+0.0	+0.4					X_802.11a		
	Ave										
102	15540.330	24.7	+11.7	-34.6	+1.4	+38.0	+0.0	41.7	72.3	-30.6	Horiz
	M		+0.0	+0.5					X_802.11a		
	Ave										
103	11490.500	27.0	+9.6	-35.9	+1.1	+38.8	+0.0	41.0	72.3	-31.3	Horiz
	M		+0.0	+0.4					X_802.11a		
	Ave										
^	11490.500	46.5	+9.6	-35.9	+1.1	+38.8	+0.0	60.5	72.3	-11.8	Horiz
	M		+0.0	+0.4					Z_802.11a		
^	11490.500	44.9	+9.6	-35.9	+1.1	+38.8	+0.0	58.9	72.3	-13.4	Horiz
	M		+0.0	+0.4					Y_802.11a		



^	11490.500	39.4	+9.6	-35.9	+1.1	+38.8	+0.0	53.4	72.3	-18.9	Horiz
	M		+0.0	+0.4							
									X_802.11a		
107	11490.500	26.7	+9.6	-35.9	+1.1	+38.8	+0.0	40.7	72.3	-31.6	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
108	11530.000	25.4	+9.6	-35.9	+1.1	+38.8	+0.0	39.4	72.3	-32.9	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		

CKC Laboratories, Inc. Date: 3/1/2010 Time: 10:50:45 Silex Technology, America, Inc. WO#: 90303  
 FCC 15.407 (b)(4) Test Distance: 3 Meters Sequence#: 53  
 SX-SDCAG

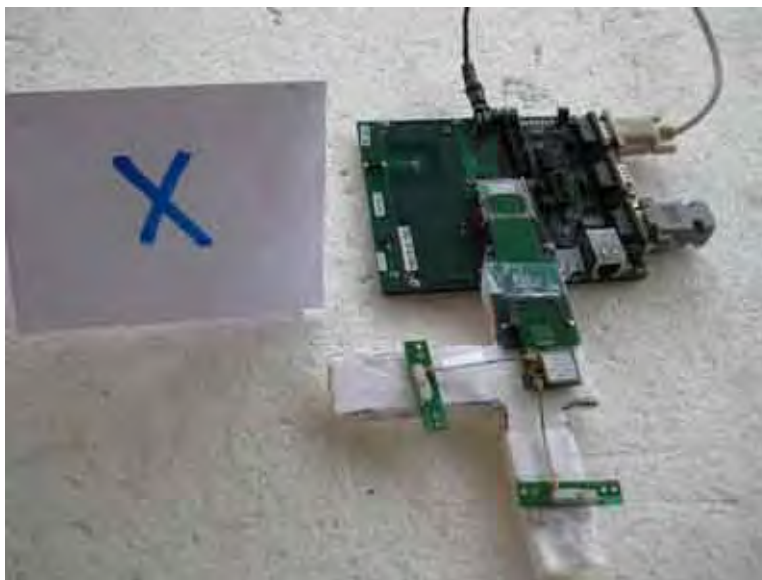


— Readings  
 x Peak Readings  
 — 1 - FCC 15.407 (b)(4)  
 \* Average Readings

**Test Setup Photos**



Antenna Manufacture: Ethertronics - Front View in X Orientation



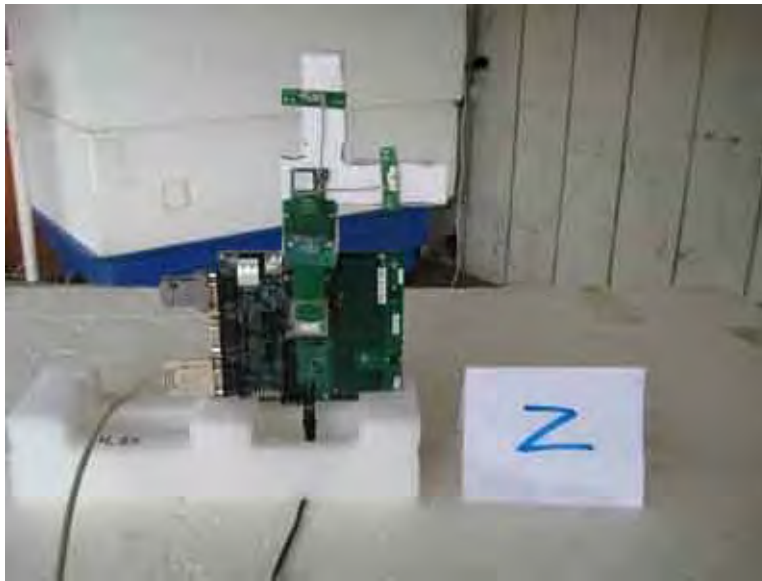
Antenna Manufacture: Ethertronics - Back View in X Orientation



Antenna Manufacture: Ethertronics - Front View in Y Orientation



Antenna Manufacture: Ethertronics - Back View in Y Orientation



Antenna Manufacture: Ethertronics - Front View in Z Orientation



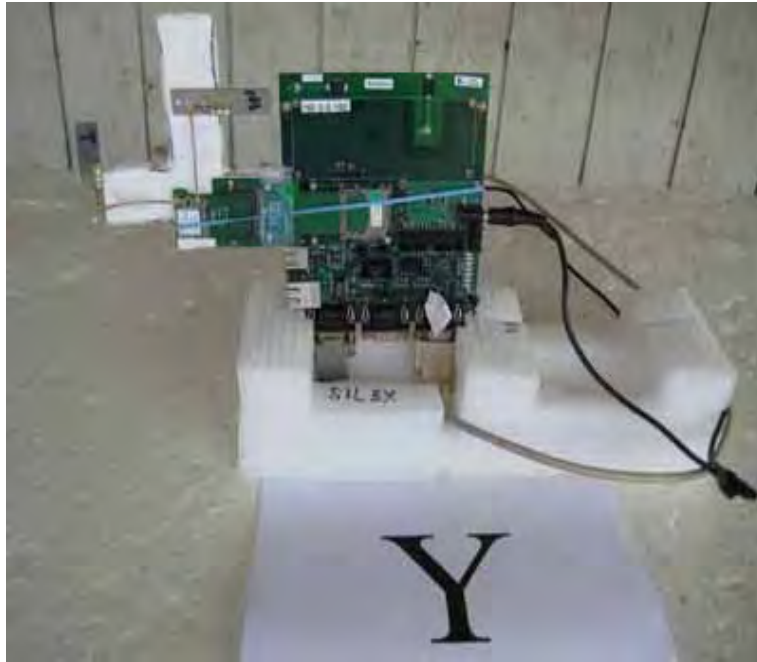
Antenna Manufacture: Ethertronics - Back View in Z Orientation



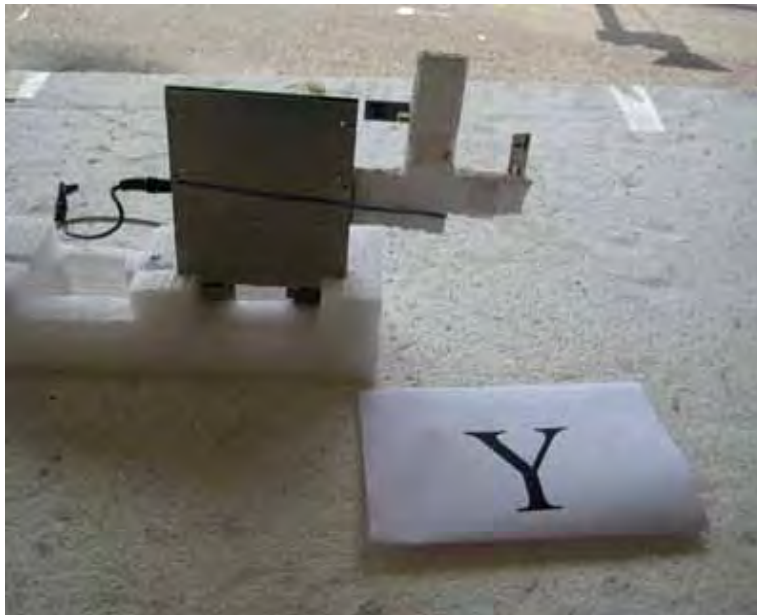
Antenna Manufacture: Pulse - Front View in X Orientation



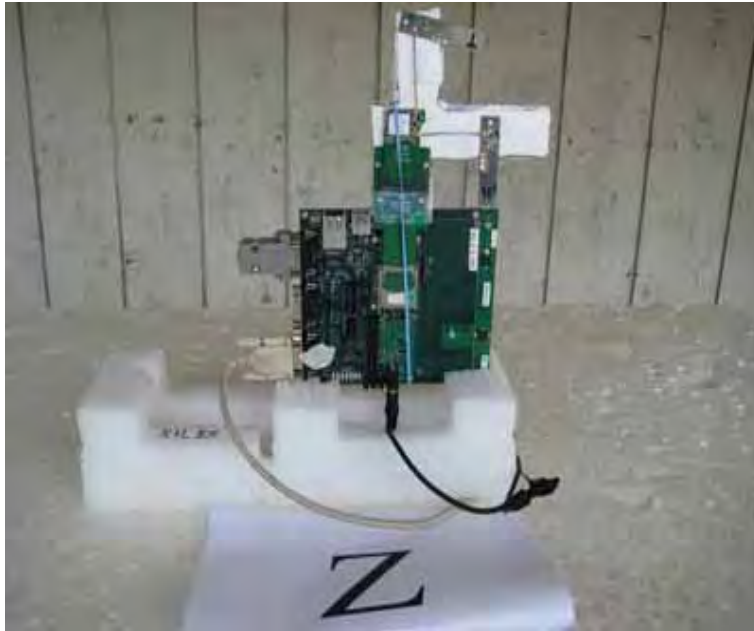
Antenna Manufacture: Pulse - Back View in X Orientation



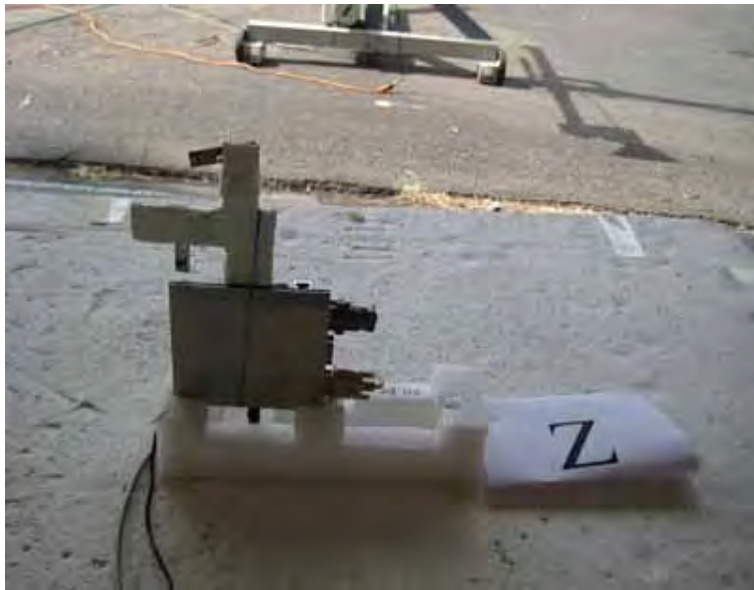
Antenna Manufacture: Pulse - Front View in Y Orientation



Antenna Manufacture: Pulse - Back View in Y Orientation



Antenna Manufacture: Pulse - Front View in Z Orientation



Antenna Manufacture: Pulse - Back View in Z Orientation

**15.407(b)(6)/15.207 UNDESIREABLE Conducted Emissions**

**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 #: **90303** Date: 2/2/2010  
 Test Type: **Conducted Emissions** Time: 14:51:49  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 9  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: **SX-SDCAG** 110V 60Hz  
 S/N: **E1**

**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	11/16/2009	11/16/2011	P05886
Conducted Emission Cable	Cable #21	05/12/2008	05/12/2010	P04358
150kHz HPF	G7755	11/16/2009	11/16/2011	02610

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

**Support Devices:**

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545



**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives, processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the supplier laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5200MHz  
Ch 40  
Modulation: 802.11a ( 54Mbps)

Firmware setting =16  
Power= 13.2dBm (0.0209W)

Antenna Manufacturer : Ethertronics  
Antenna Gain: 2.5dBi @2.5GHz  
Antenna Gain: 3.5dBi @5.0GHz  
Transmit via Antenna #1

13°C, 58% Relative Humidity

**Transducer Legend:**

T1=150kHz HPF AN02610_111611	T2=6dB atten-P05886-101410.TRN
T3=Cable #21 -P04358- Site A 05/12/10	T4=L1 Insertion Loss AN00847_120910

**Measurement Data:**

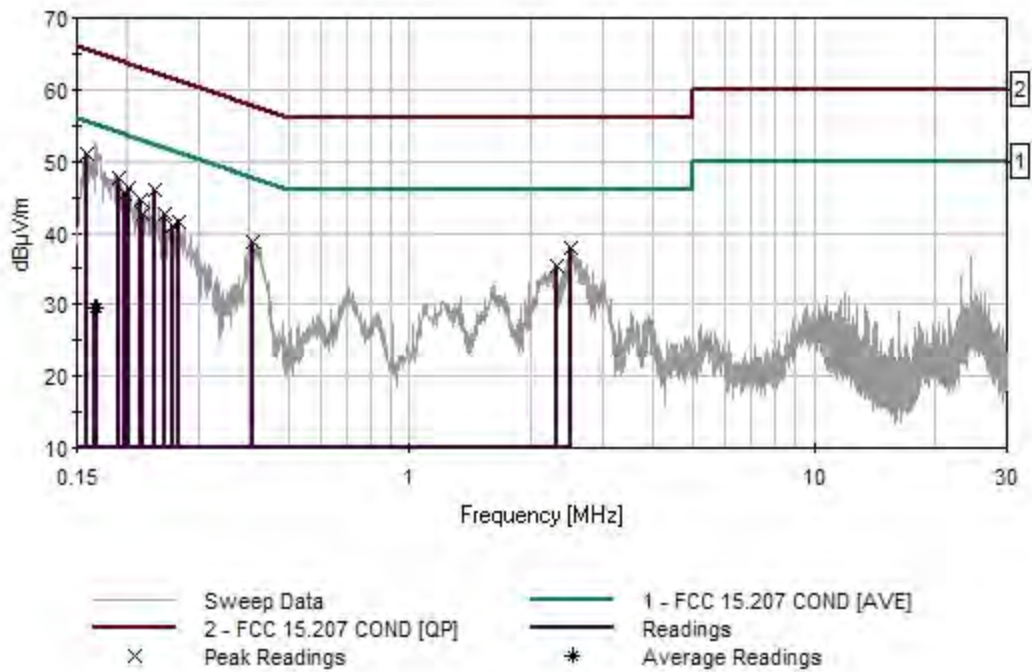
Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	157.999k	44.3	+0.7	+6.1	+0.0	+0.0	+0.0	51.1	55.6	-4.5	Black
2	191.451k	41.4	+0.2	+6.1	+0.0	+0.0	+0.0	47.7	54.0	-6.3	Black
3	233.629k	39.5	+0.3	+6.1	+0.0	+0.0	+0.0	45.9	52.3	-6.4	Black
4	202.359k	40.0	+0.3	+6.1	+0.0	+0.0	+0.0	46.4	53.5	-7.1	Black
5	2.502M	31.4	+0.1	+6.1	+0.1	+0.1	+0.0	37.8	46.0	-8.2	Black
6	197.268k	39.0	+0.3	+6.1	+0.0	+0.0	+0.0	45.4	53.7	-8.3	Black
7	216.176k	38.3	+0.3	+6.1	+0.0	+0.0	+0.0	44.7	53.0	-8.3	Black
8	411.067k	32.4	+0.3	+6.1	+0.0	+0.0	+0.0	38.8	47.6	-8.8	Black
9	248.900k	36.3	+0.3	+6.1	+0.0	+0.0	+0.0	42.7	51.8	-9.1	Black
10	267.807k	35.2	+0.3	+6.1	+0.0	+0.0	+0.0	41.6	51.2	-9.6	Black

11	218.357k	36.3	+0.3	+6.1	+0.0	+0.0	+0.0	42.7	52.9	-10.2	Black
12	258.354k	34.6	+0.3	+6.1	+0.0	+0.0	+0.0	41.0	51.5	-10.5	Black
13	2.302M	29.1	+0.1	+6.1	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
14	168.907k	23.0	+0.4	+6.1	+0.0	+0.0	+0.0	29.5	55.0	-25.5	Black
Ave											
^	165.999k	46.1	+0.4	+6.1	+0.0	+0.0	+0.0	52.6	55.2	-2.6	Black
^	168.907k	45.6	+0.4	+6.1	+0.0	+0.0	+0.0	52.1	55.0	-2.9	Black
17	165.999k	23.1	+0.4	+6.1	+0.0	+0.0	+0.0	29.6	55.2	-25.6	Black
Ave											

CKC Laboratories, Inc. Date: 2/2/2010 Time: 14:51:49 Silex Technology, America, Inc. WO#: 90303  
 FCC 15.207 COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 9  
 SX-SDCAG





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 #: **90303** Date: 2/2/2010  
 Test Type: **Conducted Emissions** Time: 2:43:57 PM  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 8  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: SX-SDCAG 110V 60Hz  
 S/N: E1

**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	11/16/2009	11/16/2011	P05886
Conducted Emission Cable	Cable #21	05/12/2008	05/12/2010	P04358
150kHz HPF	G7755	11/16/2009	11/16/2011	02610

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

**Support Devices:**

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives, processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the supplier laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5200MHz

Ch 40

Modulation: 802.11a ( 54Mbps)

Firmware setting =16

Power= 13.2dBm (0.0209W)

Antenna Manufacturer : Ethertronics

Antenna Gain: 2.5dBi @2.5GHz

Antenna Gain: 3.5dBi @5.0GHz

Transmit via Antenna #1

13°C, 58% Relative Humidity

**Transducer Legend:**

T1=150kHz HPF AN02610\_111611

T2=6dB atten-P05886-101410.TRN

T3=Cable #21 -P04358- Site A 05/12/10

T4=L2 Insertion Loss AN00847\_120910

**Measurement Data:**

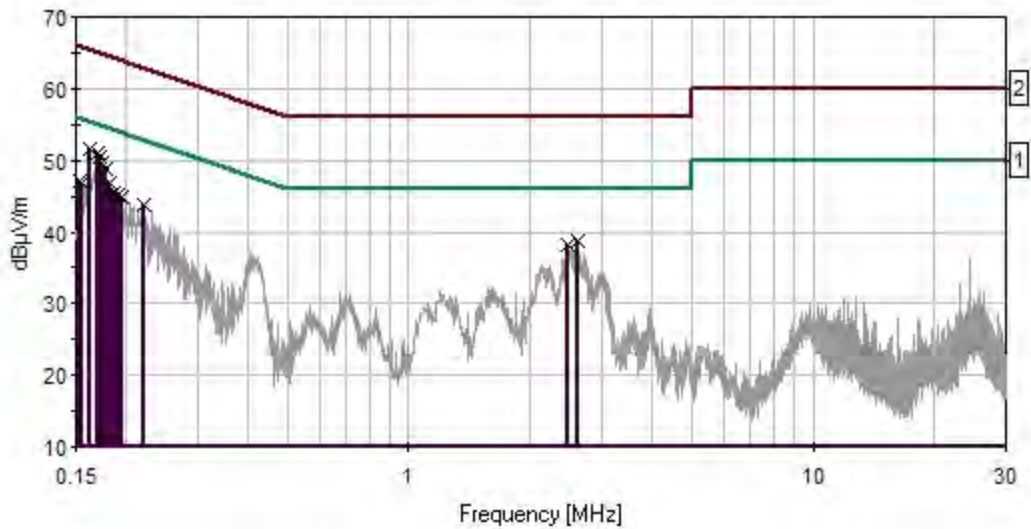
Reading listed by margin.

Test Lead: White

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	162.363k	45.2	+0.4	+6.1	+0.0	+0.0	+0.0	51.7	55.3	-3.6	White
2	169.635k	44.6	+0.4	+6.1	+0.0	+0.0	+0.0	51.1	55.0	-3.9	White
3	171.089k	43.9	+0.4	+6.1	+0.0	+0.0	+0.0	50.4	54.9	-4.5	White
4	173.998k	43.1	+0.3	+6.1	+0.0	+0.1	+0.0	49.6	54.8	-5.2	White
5	177.634k	42.3	+0.2	+6.1	+0.0	+0.1	+0.0	48.7	54.6	-5.9	White
6	2.625M	32.3	+0.1	+6.1	+0.1	+0.2	+0.0	38.8	46.0	-7.2	White
7	181.997k	40.5	+0.2	+6.1	+0.0	+0.1	+0.0	46.9	54.4	-7.5	White
8	2.485M	31.7	+0.1	+6.1	+0.1	+0.2	+0.0	38.2	46.0	-7.8	White
9	153.636k	39.6	+1.5	+6.1	+0.0	+0.0	+0.0	47.2	55.8	-8.6	White

10	186.360k	39.1	+0.2	+6.1	+0.0	+0.1	+0.0	45.5	54.2	-8.7	White
11	191.451k	38.8	+0.2	+6.1	+0.0	+0.1	+0.0	45.2	54.0	-8.8	White
12	155.818k	39.6	+1.1	+6.1	+0.0	+0.0	+0.0	46.8	55.7	-8.9	White
13	221.993k	37.3	+0.3	+6.1	+0.0	+0.1	+0.0	43.8	52.7	-8.9	White
14	195.087k	38.3	+0.3	+6.1	+0.0	+0.1	+0.0	44.8	53.8	-9.0	White
15	179.815k	39.0	+0.2	+6.1	+0.0	+0.1	+0.0	45.4	54.5	-9.1	White

CKC Laboratories, Inc. Date: 2/2/2010 Time: 2:43:57 PM Silex Technology, America, Inc. WO#: 90303  
 FCC 15.207 COND [AVE] Test Lead: White 110V 60Hz Sequence#: 8  
 SX-SDCAG



— Sweep Data  
 — 2 - FCC 15.207 COND [QP]  
 × Peak Readings  
 — 1 - FCC 15.207 COND [AVE]  
 — Readings

**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics



Test Setup Using Antenna Manufacture: Ethertronics

**15.407(b)(6)/15.209 UNDESIRABLE Radiated Emissions**

**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 15.407 (b)(6) / (15.209)**  
 Work Order #: **90303** Date: 2/2/2010  
 Test Type: **Radiated Scan** Time: 13:43:58  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 7  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: SX-SDCAG  
 S/N: E1

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Loop Antenna	2014	06/16/2008	06/16/2010	00314

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

**Support Devices:**

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.  
 Modulation: 802.11 a (54 mbps),  
 Ch 36,40,48, 149, 153, 161.  
 Firmware Power setting: 16, 16, 16, 15, 15, 16  
 Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Ethertronics  
 Antenna Gain: 2.5dBi @2.5GHz  
 Antenna Gain: 3.5dBi @5.0GHz  
 Transmit via Antenna #1

13°C, 58% Relative Humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated.

Frequency range of measurement = 9 kHz- 1 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Bico AN00306_102211	T2=Log AN00300_102211
T3=Cable #10 ANP05050 041611	T4=Cable #15_05198_ Site A, 010511
T5=Pre_amp_HP8447D-AN00309-050210	

**Measurement Data:**

#	Freq MHz	Rdng dBμV	Reading listed by margin.				Test Distance: 1 Meter				
			T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	550.000M QP	47.3	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	42.8	46.0	-3.2	Horiz
2	550.000M QP	47.0	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	42.5	46.0	-3.5	Horiz
^	550.000M	49.6	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	45.1	46.0	-0.9	Horiz
^	550.000M	48.3	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	43.8	46.0	-2.2	Horiz
^	549.998M	36.4	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	31.9	46.0	-14.1	Horiz



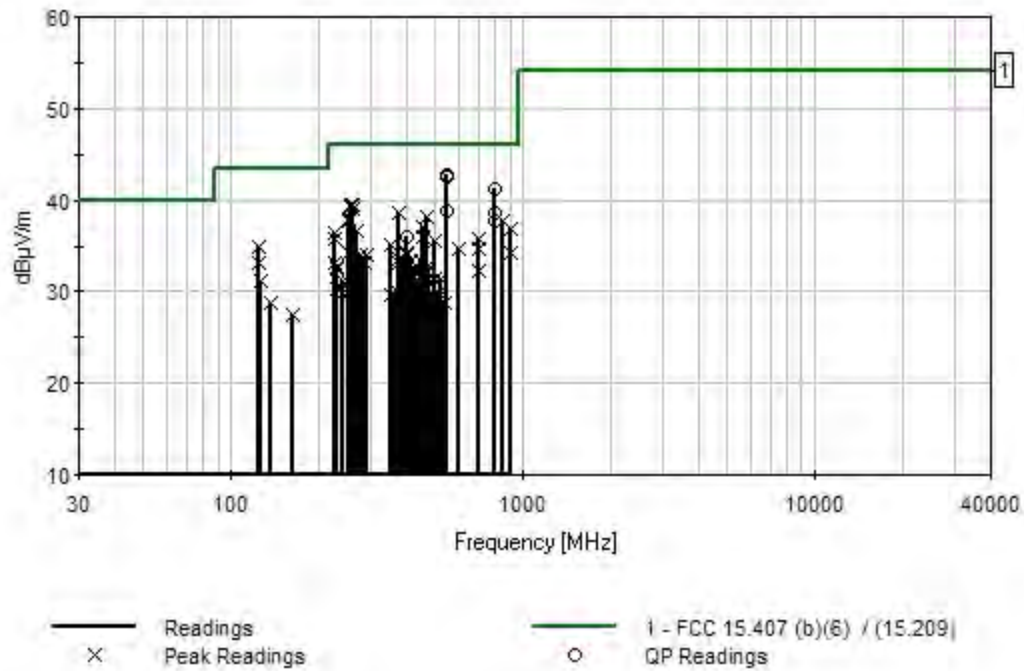
6	800.000M QP	40.3	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	41.3	46.0	-4.7	Horiz
^	800.000M	43.3	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	44.3	46.0	-1.7	Horiz
^	800.000M	41.6	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	42.6	46.0	-3.4	Horiz
^	800.010M	40.1	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	41.1	46.0	-4.9	Horiz
10	258.970M	44.6	+19.5 -27.7	+0.0	+0.3	+2.8	+0.0	39.5	46.0	-6.5	Horiz
11	256.990M	44.7	+19.3 -27.7	+0.0	+0.3	+2.8	+0.0	39.4	46.0	-6.6	Horiz
12	257.010M	44.6	+19.3 -27.7	+0.0	+0.3	+2.8	+0.0	39.3	46.0	-6.7	Vert
13	259.030M	44.2	+19.5 -27.7	+0.0	+0.3	+2.8	+0.0	39.1	46.0	-6.9	Vert
14	550.000M QP	43.4	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	38.9	46.0	-7.1	Vert
^	550.000M	45.2	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	40.7	46.0	-5.3	Vert
^	550.000M	42.0	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	37.5	46.0	-8.5	Vert
^	550.000M	41.2	+0.0 -27.6	+18.4	+0.4	+4.3	+0.0	36.7	46.0	-9.3	Vert
18	800.000M QP	37.7	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	38.7	46.0	-7.3	Vert
^	800.000M	40.9	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	41.9	46.0	-4.1	Vert
^	800.000M	39.9	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	40.9	46.0	-5.1	Vert
^	800.000M	37.6	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	38.6	46.0	-7.4	Vert
22	375.001M	45.2	+0.0 -27.8	+17.3	+0.4	+3.5	+0.0	38.6	46.0	-7.4	Vert
23	464.949M	45.0	+0.0 -27.8	+16.8	+0.3	+3.9	+0.0	38.2	46.0	-7.8	Vert
24	251.020M	44.0	+18.6 -27.7	+0.0	+0.3	+2.8	+0.0	38.0	46.0	-8.0	Horiz
25	251.010M	43.9	+18.6 -27.7	+0.0	+0.3	+2.8	+0.0	37.9	46.0	-8.1	Vert
26	849.960M	35.4	+0.0 -27.0	+23.2	+0.7	+5.5	+0.0	37.8	46.0	-8.2	Horiz
27	250.990M	43.6	+18.6 -27.7	+0.0	+0.3	+2.8	+0.0	37.6	46.0	-8.4	Horiz
28	800.010M QP	36.6	+0.0 -27.2	+22.5	+0.4	+5.3	+0.0	37.6	46.0	-8.4	Horiz
29	124.510M	44.9	+15.9 -27.9	+0.0	+0.2	+1.8	+0.0	34.9	43.5	-8.6	Horiz
30	449.983M	44.1	+0.0 -27.8	+16.6	+0.3	+3.8	+0.0	37.0	46.0	-9.0	Horiz
31	900.000M	33.8	+0.0 -27.2	+23.8	+0.7	+5.7	+0.0	36.8	46.0	-9.2	Vert

32	267.020M	40.9	+20.3 -27.8	+0.0	+0.3	+2.9	+0.0	36.6	46.0	-9.4	Horiz
33	225.020M	43.4	+17.9 -27.9	+0.0	+0.3	+2.6	+0.0	36.3	46.0	-9.7	Vert
34	449.966M	43.2	+0.0 -27.8	+16.6	+0.3	+3.8	+0.0	36.1	46.0	-9.9	Vert
35	399.966M QP	44.0	+0.0 -27.8	+15.7	+0.4	+3.6	+0.0	35.9	46.0	-10.1	Vert
^	399.966M	47.4	+0.0 -27.8	+15.7	+0.4	+3.6	+0.0	39.3	46.0	-6.7	Vert
37	700.000M	34.2	+0.0 -27.3	+23.5	+0.5	+4.9	+0.0	35.8	46.0	-10.2	Vert
38	225.000M	42.8	+17.9 -27.9	+0.0	+0.3	+2.6	+0.0	35.7	46.0	-10.3	Horiz
39	123.840M	43.2	+15.8 -27.9	+0.0	+0.2	+1.8	+0.0	33.1	43.5	-10.4	Vert
40	500.000M	41.5	+0.0 -27.8	+17.4	+0.4	+4.1	+0.0	35.6	46.0	-10.4	Vert
41	349.994M	40.5	+0.0 -27.8	+18.9	+0.3	+3.3	+0.0	35.2	46.0	-10.8	Horiz
42	700.017M	33.2	+0.0 -27.3	+23.5	+0.5	+4.9	+0.0	34.8	46.0	-11.2	Horiz
43	599.983M	37.7	+0.0 -27.4	+19.4	+0.5	+4.5	+0.0	34.7	46.0	-11.3	Horiz
44	399.992M	42.4	+0.0 -27.8	+15.7	+0.4	+3.6	+0.0	34.3	46.0	-11.7	Horiz
45	250.980M	40.3	+18.6 -27.7	+0.0	+0.3	+2.8	+0.0	34.3	46.0	-11.7	Vert
46	900.010M	31.2	+0.0 -27.2	+23.8	+0.7	+5.7	+0.0	34.2	46.0	-11.8	Horiz
47	292.520M	35.8	+22.8 -27.8	+0.0	+0.3	+3.0	+0.0	34.1	46.0	-11.9	Horiz
48	279.010M	37.2	+21.5 -27.8	+0.0	+0.3	+2.9	+0.0	34.1	46.0	-11.9	Vert
49	400.007M	42.0	+0.0 -27.8	+15.7	+0.4	+3.6	+0.0	33.9	46.0	-12.1	Horiz
50	126.130M	40.9	+16.2 -27.9	+0.0	+0.2	+1.8	+0.0	31.2	43.5	-12.3	Horiz
51	375.000M	40.2	+0.0 -27.8	+17.3	+0.4	+3.5	+0.0	33.6	46.0	-12.4	Horiz
52	442.999M	40.5	+0.0 -27.8	+16.5	+0.3	+3.8	+0.0	33.3	46.0	-12.7	Vert
53	415.030M	41.0	+0.0 -27.8	+16.0	+0.4	+3.7	+0.0	33.3	46.0	-12.7	Vert
54	384.033M	40.5	+0.0 -27.8	+16.7	+0.4	+3.5	+0.0	33.3	46.0	-12.7	Horiz
55	224.960M	40.2	+17.9 -27.9	+0.0	+0.3	+2.6	+0.0	33.1	46.0	-12.9	Horiz
56	374.083M	39.9	+0.0 -27.8	+17.3	+0.3	+3.4	+0.0	33.1	46.0	-12.9	Horiz
57	287.000M	35.4	+22.3 -27.8	+0.0	+0.3	+2.9	+0.0	33.1	46.0	-12.9	Vert

58	475.883M	39.4	+0.0 -27.8	+17.0	+0.4	+4.0	+0.0	33.0	46.0	-13.0	Horiz
59	473.982M	39.5	+0.0 -27.8	+17.0	+0.3	+3.9	+0.0	32.9	46.0	-13.1	Vert
60	229.010M	39.8	+18.0 -27.9	+0.0	+0.3	+2.6	+0.0	32.8	46.0	-13.2	Vert
61	424.075M	40.1	+0.0 -27.8	+16.1	+0.4	+3.7	+0.0	32.5	46.0	-13.5	Horiz
62	229.030M	39.5	+18.0 -27.9	+0.0	+0.3	+2.6	+0.0	32.5	46.0	-13.5	Horiz
63	700.033M	30.8	+0.0 -27.3	+23.5	+0.5	+4.9	+0.0	32.4	46.0	-13.6	Horiz
64	427.049M	39.9	+0.0 -27.8	+16.2	+0.3	+3.7	+0.0	32.3	46.0	-13.7	Vert
65	259.005M	37.0	+19.5 -27.7	+0.0	+0.3	+2.8	+0.0	31.9	46.0	-14.1	Vert
66	456.966M	38.9	+0.0 -27.8	+16.7	+0.3	+3.8	+0.0	31.9	46.0	-14.1	Vert
67	499.997M	37.3	+0.0 -27.8	+17.4	+0.4	+4.1	+0.0	31.4	46.0	-14.6	Horiz
68	524.942M	36.6	+0.0 -27.7	+17.9	+0.4	+4.2	+0.0	31.4	46.0	-14.6	Horiz
69	450.008M	38.3	+0.0 -27.8	+16.6	+0.3	+3.8	+0.0	31.2	46.0	-14.8	Horiz
70	137.190M	36.8	+17.6 -27.9	+0.0	+0.3	+1.9	+0.0	28.7	43.5	-14.8	Horiz
71	464.433M	38.0	+0.0 -27.8	+16.8	+0.3	+3.9	+0.0	31.2	46.0	-14.8	Horiz
72	426.200M	38.8	+0.0 -27.8	+16.2	+0.3	+3.7	+0.0	31.2	46.0	-14.8	Vert
73	432.930M	38.6	+0.0 -27.8	+16.3	+0.3	+3.7	+0.0	31.1	46.0	-14.9	Vert
74	240.990M	37.6	+18.3 -27.8	+0.0	+0.3	+2.7	+0.0	31.1	46.0	-14.9	Vert
75	251.010M	37.1	+18.6 -27.7	+0.0	+0.3	+2.8	+0.0	31.1	46.0	-14.9	Vert
76	424.100M	38.1	+0.0 -27.8	+16.1	+0.4	+3.7	+0.0	30.5	46.0	-15.5	Vert
77	228.950M	37.3	+18.0 -27.9	+0.0	+0.3	+2.6	+0.0	30.3	46.0	-15.7	Vert
78	367.550M	36.4	+0.0 -27.8	+17.8	+0.3	+3.4	+0.0	30.1	46.0	-15.9	Vert
79	255.020M	35.7	+19.0 -27.7	+0.0	+0.3	+2.8	+0.0	30.1	46.0	-15.9	Vert
80	163.090M	34.5	+18.5 -27.9	+0.0	+0.3	+2.1	+0.0	27.5	43.5	-16.0	Horiz
81	241.000M	36.5	+18.3 -27.8	+0.0	+0.3	+2.7	+0.0	30.0	46.0	-16.0	Vert
82	269.010M	34.1	+20.5 -27.8	+0.0	+0.3	+2.9	+0.0	30.0	46.0	-16.0	Vert
83	386.442M	37.3	+0.0 -27.8	+16.5	+0.4	+3.5	+0.0	29.9	46.0	-16.1	Horiz

84	510.970M	35.6	+0.0 -27.8	+17.6	+0.4	+4.1	+0.0	29.9	46.0	-16.1	Vert
85	364.900M	35.9	+0.0 -27.8	+17.9	+0.3	+3.4	+0.0	29.7	46.0	-16.3	Vert
86	352.017M	35.0	+0.0 -27.8	+18.8	+0.3	+3.3	+0.0	29.6	46.0	-16.4	Horiz
87	491.970M	35.6	+0.0 -27.8	+17.3	+0.4	+4.1	+0.0	29.6	46.0	-16.4	Vert
88	515.066M	34.9	+0.0 -27.7	+17.7	+0.4	+4.2	+0.0	29.5	46.0	-16.5	Vert
89	380.983M	36.5	+0.0 -27.8	+16.9	+0.4	+3.5	+0.0	29.5	46.0	-16.5	Vert
90	476.275M	35.8	+0.0 -27.8	+17.0	+0.4	+4.0	+0.0	29.4	46.0	-16.6	Horiz
91	523.770M	34.3	+0.0 -27.7	+17.9	+0.4	+4.2	+0.0	29.1	46.0	-16.9	Vert
92	480.130M	35.2	+0.0 -27.8	+17.1	+0.4	+4.0	+0.0	28.9	46.0	-17.1	Vert
93	542.030M	33.5	+0.0 -27.6	+18.3	+0.4	+4.3	+0.0	28.9	46.0	-17.1	Vert
94	437.449M	36.1	+0.0 -27.8	+16.4	+0.3	+3.8	+0.0	28.8	46.0	-17.2	Vert
95	375.418M	35.4	+0.0 -27.8	+17.2	+0.4	+3.5	+0.0	28.7	46.0	-17.3	Horiz
96	436.950M	36.0	+0.0 -27.8	+16.4	+0.3	+3.8	+0.0	28.7	46.0	-17.3	Horiz
97	410.999M	36.5	+0.0 -27.8	+15.9	+0.4	+3.6	+0.0	28.6	46.0	-17.4	Vert
98	393.017M	36.3	+0.0 -27.8	+16.1	+0.4	+3.6	+0.0	28.6	46.0	-17.4	Vert
99	467.370M	35.0	+0.0 -27.8	+16.9	+0.3	+3.9	+0.0	28.3	46.0	-17.7	Vert
100	524.283M	33.2	+0.0 -27.7	+17.9	+0.4	+4.2	+0.0	28.0	46.0	-18.0	Horiz
101	369.690M	34.1	+0.0 -27.8	+17.6	+0.3	+3.4	+0.0	27.6	46.0	-18.4	Horiz
102	450.563M	34.6	+0.0 -27.8	+16.6	+0.3	+3.8	+0.0	27.5	46.0	-18.5	Horiz
103	462.825M	33.4	+0.0 -27.8	+16.8	+0.3	+3.9	+0.0	26.6	46.0	-19.4	Horiz
104	487.366M	32.8	+0.0 -27.8	+17.2	+0.4	+4.0	+0.0	26.6	46.0	-19.4	Vert
105	379.917M	33.4	+0.0 -27.8	+17.0	+0.4	+3.5	+0.0	26.5	46.0	-19.5	Horiz
106	502.966M	32.2	+0.0 -27.8	+17.5	+0.4	+4.1	+0.0	26.4	46.0	-19.6	Vert
107	420.017M	34.0	+0.0 -27.8	+16.1	+0.4	+3.7	+0.0	26.4	46.0	-19.6	Horiz

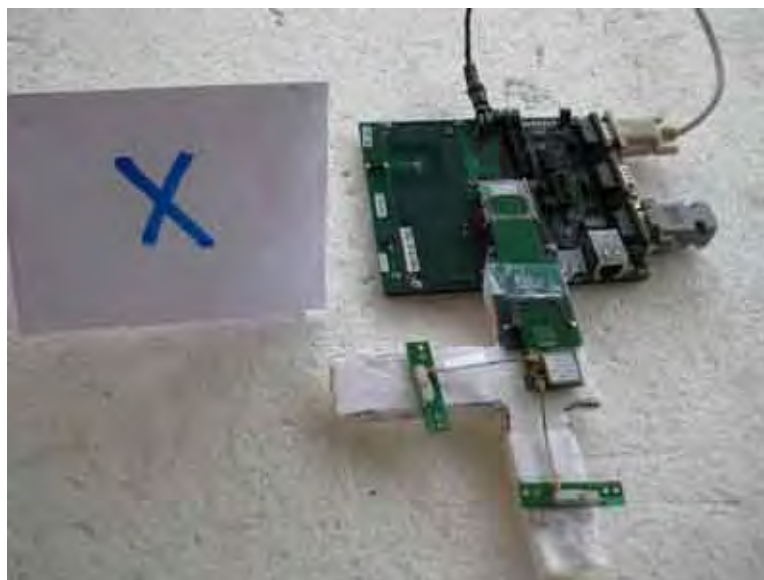
CKC Laboratories, Inc. Date: 2/2/2010 Time: 13:43:58 Silix Technology, America, Inc. WO#: 90303  
 FCC 15.407 (b)(6) / (15.209) Test Distance: 1 Meter Sequence#: 7  
 SX-SDCAG



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics



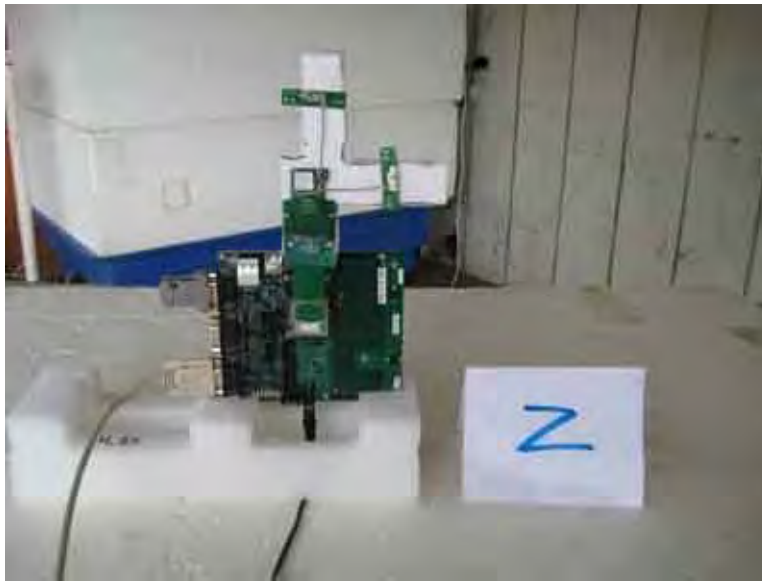
Test Setup Using Antenna Manufacture: Ethertronics



Test Setup Using Antenna Manufacture: Ethertronics



Test Setup Using Antenna Manufacture: Ethertronics



Test Setup Using Antenna Manufacture: Ethertronics



Test Setup Using Antenna Manufacture: Ethertronics



**15.407(b)(7)/15.205 UNDESIRABLE EMISSIONS LIMITS**

**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 15.407 (b)(7) / (15.205)**  
 Work Order #: **90303** Date: 2/2/2010  
 Test Type: **Radiated Scan** Time: 13:43:58  
 Equipment: **Wireless 802.11a/b/g SD Card Radio** Sequence#: 7  
 Manufacturer: Silex Technology America, Inc. Tested By: E. Wong  
 Model: SX-SDCAG  
 S/N: E1

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
18-26GHz Horn	942126-003	11/12/2008	11/12/2010	01413
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
5.8 GHz HPF	1	03/25/2008	03/25/2010	02755
AMP 50GHz	3332A00309	11/13/2008	11/13/2010	02115
26.5-40GHz Horn Antenna	1012	11/12/2008	11/12/2010	02045

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	E1

***Support Devices:***

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

***Test Conditions / Notes:***

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via the support wireless hub.

Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq: 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Modulation: 802.11 a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Ethertronics

Antenna Gain: 2.5dBi @2.5GHz

Antenna Gain: 3.5dBi @5.0GHz

Transmit via Antenna #1

13°C, 58% Relative Humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated. The lowest measured fundamental emission = 105dbuV/m , -20dBc = 85dBuV.

Frequency range of measurement = 9 kHz- 40 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Bico AN00306_102211	T2=Log AN00300_102211
T3=Cable #10 ANP05050 041611	T4=Cable #15_05198_ Site A, 010511
T5=Pre_amp_HP8447D-AN00309-050210	T6=Heliac Cable 54' ANP05565 090410
T7=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T8=Hi Freq_40GHz_2ft-AN02948-092111
T9=Horn Ant AN00849 060610	T10=Horn Ant AN01413_111310
T11=HPF_6GHz-AN02755-032510	

**Measurement Data:**

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5	T6	T7	T8					
			T9	T10	T11		Table	dBμV/m	dBμV/m	dB	Ant
			dB	dB	dB	dB					
1	11611.500	39.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.7	54.0	-0.3	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5805M Hz		
^	11611.500	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	65.9	54.0	+11.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5805M Hz		
3	11529.420	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	54.0	-0.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M Hz		
^	11529.420	52.4	+0.0	+0.0	+0.0	+0.0	+0.0	66.4	54.0	+12.4	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5765M Hz		
^	11529.330	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	58.5	54.0	+4.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5765M Hz		
6	11491.330	39.3	+0.0	+0.0	+0.0	+0.0	+0.0	53.3	54.0	-0.7	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5745M Hz . power 16, 10 dB pad		
^	11491.330	52.8	+0.0	+0.0	+0.0	+0.0	+0.0	66.8	54.0	+12.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5745M Hz . power 16, 10 dB pad		
8	11490.000	38.7	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	54.0	-1.3	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5745M Hz		

9	11610.670	38.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.5	54.0	-1.5	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_5805MHz		
^	11610.670	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	65.1	54.0	+11.1	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_5805MHz		
11	11528.330	38.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.3	54.0	-1.7	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5765M		
									Hz		
^	11528.330	50.7	+0.0	+0.0	+0.0	+0.0	+0.0	64.7	54.0	+10.7	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Z_802.11a_5765M		
									Hz		
13	11612.330	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	54.0	-2.7	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	11612.330	49.4	+0.0	+0.0	+0.0	+0.0	+0.0	63.4	54.0	+9.4	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
15	11606.020	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	54.0	-2.7	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_5805MHz		
^	11606.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	54.0	+8.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_5805MHz		
17	11490.000	37.0	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	54.0	-3.0	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	54.0	+8.5	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	54.0	+0.3	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
20	11525.930	36.7	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	47.2	+0.0	+0.0	+0.0	+0.0	+0.0	61.2	54.0	+7.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		

22	11526.000	36.4	+0.0	+0.0	+0.0	+0.0	+0.0	50.4	54.0	-3.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
^	11526.000	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	63.6	54.0	+9.6	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5765M		
									Hz		
24	11490.000	36.3	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	54.0	-3.7	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	65.5	54.0	+11.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
^	11490.000	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	54.0	+8.5	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				X_802.11a_5745M		
									Hz		
^	11490.000	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	58.2	54.0	+4.2	Vert
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Z_802.11a_5745M		
									Hz		
28	15600.000	31.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.0	54.0	-5.0	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
29	15600.000	31.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.8	54.0	-5.2	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
30	15720.000	31.0	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	54.0	-5.7	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		
31	15600.000	31.2	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	54.0	-5.7	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
32	15542.500	30.7	+0.0	+0.0	+0.0	+0.0	+0.0	47.7	54.0	-6.3	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
^	15542.500	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	61.5	54.0	+7.5	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		

34	11610.000 M Ave	33.5	+0.0 +0.0 +38.8	+0.0 +9.6 +0.0	+0.0 -35.9 +0.4	+0.0 +1.1	+0.0	47.5	54.0	-6.5	Vert
									Z_802.11a_5805M Hz		
^	11610.000 M	45.4	+0.0 +0.0 +38.8	+0.0 +9.6 +0.0	+0.0 -35.9 +0.4	+0.0 +1.1	+0.0	59.4	54.0	+5.4	Vert
									Z_802.11a_5805M Hz		
36	258.970M	44.6	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	39.5	46.0	-6.5	Horiz
37	256.990M	44.7	+19.3 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	39.4	46.0	-6.6	Horiz
38	257.010M	44.6	+19.3 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	39.3	46.0	-6.7	Vert
39	259.030M	44.2	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	39.1	46.0	-6.9	Vert
40	11490.000 M Ave	32.8	+0.0 +0.0 +38.8	+0.0 +9.6 +0.0	+0.0 -35.9 +0.4	+0.0 +1.1	+0.0	46.8	54.0	-7.2	Vert
									Z_802.11a_5745M Hz		
41	11529.330 M Ave	32.6	+0.0 +0.0 +38.8	+0.0 +9.6 +0.0	+0.0 -35.9 +0.4	+0.0 +1.1	+0.0	46.6	54.0	-7.4	Vert
									Z_802.11a_5765M Hz		
42	251.020M	44.0	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	38.0	46.0	-8.0	Horiz
43	15540.000 M Ave	28.9	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	45.9	54.0	-8.1	Vert
									Y_802.11a_5180M Hz		
^	15540.000 M	40.9	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	57.9	54.0	+3.9	Vert
									Y_802.11a_5180M Hz		
^	15540.000 M	39.5	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	56.5	54.0	+2.5	Vert
									Z_802.11a_5180M Hz		
46	251.010M	43.9	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	37.9	46.0	-8.1	Vert

47	11527.800	31.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	54.0	-8.1	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
^	11527.800	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	54.0	+4.8	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y_802.11a_5765M		
									Hz		
49	15720.000	28.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	54.0	-8.4	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
50	250.990M	43.6	+18.6	+0.0	+0.3	+2.8	+0.0	37.6	46.0	-8.4	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
51	124.510M	44.9	+15.9	+0.0	+0.2	+1.8	+0.0	34.9	43.5	-8.6	Horiz
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
52	15600.000	28.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	54.0	-8.8	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
^	15600.000	42.2	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	54.0	+5.3	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
^	15600.000	40.3	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	54.0	+3.4	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
55	11610.000	31.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	54.0	-8.9	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	11610.000	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	57.1	54.0	+3.1	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
			+38.8	+0.0	+0.4				Y-		
									802.11a_5805MHz		
57	267.020M	40.9	+20.3	+0.0	+0.3	+2.9	+0.0	36.6	46.0	-9.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

58	15720.000	26.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	54.0	-9.9	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	38.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	54.0	+2.1	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	38.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.7	54.0	+1.7	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
61	15720.000	26.7	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	54.0	-10.0	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
^	15720.000	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	60.5	54.0	+6.5	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		
^	15720.000	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.7	54.0	+3.7	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
^	15720.000	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	54.0	+2.8	Horiz
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5240M		
									Hz		
65	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	54.0	-10.0	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
^	15540.000	39.1	+0.0	+0.0	+0.0	+0.0	+0.0	56.1	54.0	+2.1	Horiz
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5180M		
									Hz		
67	15540.000	27.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.0	54.0	-10.0	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5180M		
									Hz		
68	399.966M	44.0	+0.0	+15.7	+0.4	+3.6	+0.0	35.9	46.0	-10.1	Vert
	QP		-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	399.966M	47.4	+0.0	+15.7	+0.4	+3.6	+0.0	39.3	46.0	-6.7	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
70	123.840M	43.2	+15.8	+0.0	+0.2	+1.8	+0.0	33.1	43.5	-10.4	Vert
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						



71	11490.000	29.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	54.0	-10.5	Horiz
	M		+0.0	+9.6	-35.9	+1.1					
	Ave		+38.8	+0.0	+0.4				Y_802.11a_5745M		
									Hz		
72	15538.580	26.5	+0.0	+0.0	+0.0	+0.0	+0.0	43.5	54.0	-10.5	Vert
	M		+0.0	+11.7	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
^	15538.580	38.0	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	54.0	+1.0	Vert
	M		+0.0	+11.7	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5180M		
									Hz		
74	15720.000	25.6	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	54.0	-11.1	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Y_802.11a_5240M		
									Hz		
75	15600.000	25.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.6	54.0	-11.4	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
^	15600.000	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	62.4	54.0	+8.4	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
^	15600.000	42.7	+0.0	+0.0	+0.0	+0.0	+0.0	59.8	54.0	+5.8	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Y_802.11a_5200M		
									Hz		
^	15600.000	38.1	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	54.0	+1.2	Horiz
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				X_802.11a_5200M		
									Hz		
79	15602.500	25.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.6	54.0	-11.4	Vert
	M		+0.0	+11.8	-34.6	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
^	15602.500	37.3	+0.0	+0.0	+0.0	+0.0	+0.0	54.4	54.0	+0.4	Vert
	M		+0.0	+11.8	-34.6	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5200M		
									Hz		
81	15719.000	25.2	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	54.0	-11.5	Vert
	M		+0.0	+11.8	-34.4	+1.4					
	Ave		+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		
^	15719.000	36.2	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	54.0	-0.5	Vert
	M		+0.0	+11.8	-34.4	+1.4					
			+38.0	+0.0	+0.5				Z_802.11a_5240M		
									Hz		

83	15538.580 M Ave	25.4	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	42.4	54.0	-11.6	Horiz
X_802.11a_5180M Hz											
^	15538.580 M	37.1	+0.0 +0.0 +38.0	+0.0 +11.7 +0.0	+0.0 -34.6 +0.5	+0.0 +1.4	+0.0	54.1	54.0	+0.1	Horiz
X_802.11a_5180M Hz											
85	399.992M	42.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0	+0.0	34.3	46.0	-11.7	Horiz
86	250.980M	40.3	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	34.3	46.0	-11.7	Vert
87	279.010M	37.2	+21.5 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0	+0.0	34.1	46.0	-11.9	Vert
88	400.007M	42.0	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0	+0.0	33.9	46.0	-12.1	Horiz
89	126.130M	40.9	+16.2 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.8 +0.0	+0.0	31.2	43.5	-12.3	Horiz
90	259.005M	37.0	+19.5 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	31.9	46.0	-14.1	Vert
91	22973.330 M Ave	40.4	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7	-10.0	39.4	54.0	-14.6	Vert
^	22973.330 M	54.0	+0.0 +0.0 +0.0	+0.0 +0.0 +39.7	+0.0 -32.4 +0.0	+0.0 +1.7	-10.0	53.0	54.0	-1.0	Vert
93	137.190M	36.8	+17.6 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+1.9 +0.0	+0.0	28.7	43.5	-14.8	Horiz
94	240.990M	37.6	+18.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.7 +0.0	+0.0	31.1	46.0	-14.9	Vert
95	251.010M	37.1	+18.6 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	31.1	46.0	-14.9	Vert
96	255.020M	35.7	+19.0 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0	+0.0	30.1	46.0	-15.9	Vert
97	163.090M	34.5	+18.5 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.1 +0.0	+0.0	27.5	43.5	-16.0	Horiz
98	241.000M	36.5	+18.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.7 +0.0	+0.0	30.0	46.0	-16.0	Vert

99	269.010M	34.1	+20.5	+0.0	+0.3	+2.9	+0.0	30.0	46.0	-16.0	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
100	23063.330	37.5	+0.0	+0.0	+0.0	+0.0	-10.0	36.5	54.0	-17.5	Vert
	M		+0.0	+0.0	-32.4	+1.7					
	Ave		+0.0	+39.7	+0.0						
^	23063.330	49.3	+0.0	+0.0	+0.0	+0.0	-10.0	48.3	54.0	-5.7	Vert
	M		+0.0	+0.0	-32.4	+1.7					
			+0.0	+39.7	+0.0						
102	20973.330	36.7	+0.0	+0.0	+0.0	+0.0	-10.0	35.0	54.0	-19.0	Vert
	M		+0.0	+0.0	-32.9	+1.6					
	Ave		+0.0	+39.6	+0.0						
^	20973.330	54.4	+0.0	+0.0	+0.0	+0.0	-10.0	52.7	54.0	-1.3	Vert
	M		+0.0	+0.0	-32.9	+1.6					
			+0.0	+39.6	+0.0						
104	20800.000	35.0	+0.0	+0.0	+0.0	+0.0	-10.0	33.3	54.0	-20.7	Vert
	M		+0.0	+0.0	-32.9	+1.6					
	Ave		+0.0	+39.6	+0.0						
^	20800.000	45.4	+0.0	+0.0	+0.0	+0.0	-10.0	43.7	54.0	-10.3	Vert
	M		+0.0	+0.0	-32.9	+1.6					
			+0.0	+39.6	+0.0						
106	20720.000	33.8	+0.0	+0.0	+0.0	+0.0	-10.0	32.2	54.0	-21.8	Vert
	M		+0.0	+0.0	-32.8	+1.6					
	Ave		+0.0	+39.6	+0.0						
^	20720.000	48.2	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	54.0	-7.4	Vert
	M		+0.0	+0.0	-32.8	+1.6					
			+0.0	+39.6	+0.0						
108	17236.330	40.4	+0.0	+0.0	+0.0	+0.0	-10.0	52.6	85.0	-32.4	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Z_802.11a_5745M Hz , power=16, 10 dB pad, 1 meter		
^	17236.330	53.5	+0.0	+0.0	+0.0	+0.0	-10.0	65.7	85.0	-19.3	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				Z_802.11a_5745M Hz , power=16, 10 dB pad, 1 meter		
110	17235.000	40.2	+0.0	+0.0	+0.0	+0.0	-10.0	52.4	85.0	-32.6	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				X_802.11a_5745M Hz		
^	17235.000	57.0	+0.0	+0.0	+0.0	+0.0	-10.0	69.2	85.0	-15.8	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				X_802.11a_5745M Hz		
^	17235.000	44.8	+0.0	+0.0	+0.0	+0.0	-10.0	57.0	85.0	-28.0	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				Y_802.11a_5745M Hz		

113	17289.000	39.7	+0.0	+0.0	+0.0	+0.0	-10.0	52.2	85.0	-32.8	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		
^	17289.000	54.1	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	85.0	-18.4	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				X_802.11a_5765M		
									Hz		
115	17411.330	37.9	+0.0	+0.0	+0.0	+0.0	-10.0	51.1	85.0	-33.9	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				X_5805MHz		
^	17411.330	53.4	+0.0	+0.0	+0.0	+0.0	-10.0	66.6	85.0	-18.4	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				X_5805MHz		
117	17283.330	38.3	+0.0	+0.0	+0.0	+0.0	-10.0	50.8	85.0	-34.2	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
^	17283.330	52.6	+0.0	+0.0	+0.0	+0.0	-10.0	65.1	85.0	-19.9	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.8	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
119	6906.567M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.5	85.0	-34.5	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
120	17421.670	36.1	+0.0	+0.0	+0.0	+0.0	-10.0	49.3	85.0	-35.7	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	17421.670	47.3	+0.0	+0.0	+0.0	+0.0	-10.0	60.5	85.0	-24.5	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
122	6986.667M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	85.0	-36.1	Horiz
	Ave		+0.0	+6.7	-36.4	+0.8			Z_802.11a_5240M		
			+35.0	+0.0	+0.5				Hz		
123	6906.650M	42.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	85.0	-36.5	Vert
	Ave		+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
^	6906.650M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	85.0	-32.3	Vert
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
125	6906.500M	42.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	85.0	-36.5	Vert
			+0.0	+6.7	-36.5	+0.8			Z_802.11a_5180M		
			+34.9	+0.0	+0.5				Hz		
126	10400.000	36.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.2	85.0	-36.8	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		

127	6933.497M Ave	41.8	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.2	85.0 Z_802.11a_5200M Hz	-36.8	Horiz
^	6933.497M	47.9	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	54.3	85.0 Z_802.11a_5200M Hz	-30.7	Horiz
129	6933.050M Ave	41.7	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	48.1	85.0 Y_802.11a_5200M Hz	-36.9	Vert
^	6933.050M	48.0	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	54.4	85.0 Y_802.11a_5200M Hz	-30.6	Vert
131	6986.533M Ave	41.4	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	48.0	85.0 Y_802.11a_5240M Hz	-37.0	Vert
^	6986.533M	46.7	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	53.3	85.0 Y_802.11a_5240M Hz	-31.7	Vert
133	17235.820 M Ave	24.9	+0.0 +0.0 +41.6	+0.0 +12.5 +0.0	+0.0 -33.7 +0.3	+0.0 +1.5	+0.0	47.1	85.0 Z_802.11a_5745M Hz	-37.9	Vert
^	17235.820 M	37.3	+0.0 +0.0 +41.6	+0.0 +12.5 +0.0	+0.0 -33.7 +0.3	+0.0 +1.5	+0.0	59.5	85.0 Z_802.11a_5745M Hz	-25.5	Vert
135	17235.000 M Ave	34.9	+0.0 +0.0 +41.6	+0.0 +12.5 +0.0	+0.0 -33.7 +0.3	+0.0 +1.5	-10.0	47.1	85.0 X_802.11a_5745M Hz	-37.9	Vert
^	17235.000 M	46.6	+0.0 +0.0 +41.6	+0.0 +12.5 +0.0	+0.0 -33.7 +0.3	+0.0 +1.5	-10.0	58.8	85.0 X_802.11a_5745M Hz	-26.2	Vert
137	10400.000 M Ave	34.8	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	46.7	85.0 Z_802.11a_5200M Hz	-38.3	Horiz
138	17289.000 M Ave	34.1	+0.0 +0.0 +41.8	+0.0 +12.5 +0.0	+0.0 -33.6 +0.3	+0.0 +1.5	-10.0	46.6	85.0 X_802.11a_5765M Hz	-38.4	Vert
^	17289.000 M	45.4	+0.0 +0.0 +41.8	+0.0 +12.5 +0.0	+0.0 -33.6 +0.3	+0.0 +1.5	-10.0	57.9	85.0 X_802.11a_5765M Hz	-27.1	Vert

140	17292.220	34.0	+0.0	+0.0	+0.0	+0.0	-10.0	46.6	85.0	-38.4	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.220	45.5	+0.0	+0.0	+0.0	+0.0	-10.0	58.1	85.0	-26.9	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
142	17230.500	34.3	+0.0	+0.0	+0.0	+0.0	-10.0	46.5	85.0	-38.5	Vert
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
^	17230.500	46.2	+0.0	+0.0	+0.0	+0.0	-10.0	58.4	85.0	-26.6	Vert
	M		+0.0	+12.5	-33.7	+1.5					
			+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
144	17415.000	23.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.2	85.0	-38.8	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
^	17415.000	33.7	+0.0	+0.0	+0.0	+0.0	+0.0	56.9	85.0	-28.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
			+42.4	+0.0	+0.4				Z_802.11a_5805M		
									Hz		
146	17292.800	33.0	+0.0	+0.0	+0.0	+0.0	-10.0	45.6	85.0	-39.4	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
^	17292.800	45.9	+0.0	+0.0	+0.0	+0.0	-10.0	58.5	85.0	-26.5	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
			+41.9	+0.0	+0.3				Y_802.11a_5765M		
									Hz		
148	10480.000	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	85.0	-39.4	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
149	10359.830	33.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.5	85.0	-39.5	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
^	10359.830	48.0	+0.0	+0.0	+0.0	+0.0	+0.0	59.9	85.0	-25.1	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		

151	10400.000	33.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	85.0	-39.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	46.0	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	85.0	-27.1	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	40.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	85.0	-32.6	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		
154	10480.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	85.0	-39.9	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	58.7	85.0	-26.3	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
^	10480.000	45.9	+0.0	+0.0	+0.0	+0.0	+0.0	57.9	85.0	-27.1	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	44.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.8	85.0	-28.2	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		
158	10358.500	33.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	85.0	-39.9	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
^	10358.500	47.0	+0.0	+0.0	+0.0	+0.0	+0.0	58.9	85.0	-26.1	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
160	10479.000	33.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	85.0	-40.0	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
^	10479.000	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	85.0	-26.2	Vert
	M		+0.0	+8.9	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5240M		
									Hz		
162	10358.000	33.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	85.0	-40.0	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		
^	10358.000	47.4	+0.0	+0.0	+0.0	+0.0	+0.0	59.3	85.0	-25.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5180M		
									Hz		

164	17415.000	31.8	+0.0	+0.0	+0.0	+0.0	-10.0	45.0	85.0	-40.0	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	17415.000	44.3	+0.0	+0.0	+0.0	+0.0	-10.0	57.5	85.0	-27.5	Horiz
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
166	17411.330	31.7	+0.0	+0.0	+0.0	+0.0	-10.0	44.9	85.0	-40.1	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				X_5805MHz		
^	17411.330	42.1	+0.0	+0.0	+0.0	+0.0	-10.0	55.3	85.0	-29.7	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				X_5805MHz		
168	17416.170	31.6	+0.0	+0.0	+0.0	+0.0	-10.0	44.8	85.0	-40.2	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
^	17416.170	41.1	+0.0	+0.0	+0.0	+0.0	-10.0	54.3	85.0	-30.7	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+42.4	+0.0	+0.4				Y-		
									802.11a_5805MHz		
170	17301.000	21.9	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	85.0	-40.5	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
^	17301.000	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	85.0	-29.6	Vert
	M		+0.0	+12.5	-33.6	+1.5					
	Ave		+41.9	+0.0	+0.3				Z_802.11a_5765M		
									Hz		
172	10480.000	32.4	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	85.0	-40.6	Horiz
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5240M		
									Hz		
173	10480.000	32.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	85.0	-40.7	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
^	10480.000	43.4	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	85.0	-29.6	Vert
	M		+0.0	+8.9	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5240M		
									Hz		
175	10399.170	31.4	+0.0	+0.0	+0.0	+0.0	+0.0	43.3	85.0	-41.7	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
^	10399.170	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	55.0	85.0	-30.0	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		



177	6986.667M Ave	36.2	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	42.8	85.0 Z_802.11a_5240M Hz	-42.2	Vert
^	6986.667M	42.9	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	49.5	85.0 Z_802.11a_5240M Hz	-35.5	Vert
179	10360.000 M Ave	30.9	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.8	85.0 Y_802.11a_5180M Hz	-42.2	Horiz
^	10360.000 M	42.8	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	54.7	85.0 Y_802.11a_5180M Hz	-30.3	Horiz
181	550.000M QP	47.3	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	42.8	85.0	-42.2	Horiz
182	10483.330 M Ave	30.6	+0.0 +0.0 +38.0	+0.0 +8.9 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.6	85.0 Y_802.11a_5240M Hz	-42.4	Vert
^	10483.330 M	44.7	+0.0 +0.0 +38.0	+0.0 +8.9 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	56.7	85.0 Y_802.11a_5240M Hz	-28.3	Vert
184	550.000M QP	47.0	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	42.5	85.0	-42.5	Horiz
^	550.000M	49.6	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	45.1	85.0	-39.9	Horiz
^	550.000M	48.3	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	43.8	85.0	-41.2	Horiz
^	549.998M	36.4	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	31.9	85.0	-53.1	Horiz
188	6933.483M Ave	36.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	42.5	85.0 Z_802.11a_5200M Hz	-42.5	Vert
^	6933.483M	44.1	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	50.5	85.0 Z_802.11a_5200M Hz	-34.5	Vert
190	10360.000 M Ave	30.5	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.4	85.0 Z_802.11a_5180M Hz	-42.6	Vert
191	10400.000 M Ave	30.4	+0.0 +0.0 +38.0	+0.0 +8.8 +0.0	+0.0 -36.2 +0.3	+0.0 +1.0	+0.0	42.3	85.0 Y_802.11a_5200M Hz	-42.7	Vert

192	17235.000	30.1	+0.0	+0.0	+0.0	+0.0	-10.0	42.3	85.0	-42.7	Horiz
	M		+0.0	+12.5	-33.7	+1.5					
	Ave		+41.6	+0.0	+0.3				Y_802.11a_5745M		
									Hz		
193	10360.000	30.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.2	85.0	-42.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		
^	10360.000	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	85.0	-29.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5180M		
									Hz		
^	10360.000	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	55.2	85.0	-29.8	Vert
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5180M		
									Hz		
196	800.000M	40.3	+0.0	+22.5	+0.4	+5.3	+0.0	41.3	85.0	-43.7	Horiz
	QP		-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	43.3	+0.0	+22.5	+0.4	+5.3	+0.0	44.3	85.0	-40.7	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.000M	41.6	+0.0	+22.5	+0.4	+5.3	+0.0	42.6	85.0	-42.4	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
^	800.010M	40.1	+0.0	+22.5	+0.4	+5.3	+0.0	41.1	85.0	-43.9	Horiz
			-27.2	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
200	6933.333M	34.5	+0.0	+0.0	+0.0	+0.0	+0.0	40.9	85.0	-44.1	Horiz
	Ave		+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
^	6933.333M	42.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.8	85.0	-36.2	Horiz
			+0.0	+6.7	-36.5	+0.8			Y_802.11a_5200M		
			+34.9	+0.0	+0.5				Hz		
202	10400.000	28.9	+0.0	+0.0	+0.0	+0.0	+0.0	40.8	85.0	-44.2	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
	Ave		+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		
^	10400.000	48.7	+0.0	+0.0	+0.0	+0.0	+0.0	60.6	85.0	-24.4	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Z_802.11a_5200M		
									Hz		
^	10400.000	46.5	+0.0	+0.0	+0.0	+0.0	+0.0	58.4	85.0	-26.6	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				Y_802.11a_5200M		
									Hz		
^	10400.000	42.6	+0.0	+0.0	+0.0	+0.0	+0.0	54.5	85.0	-30.5	Horiz
	M		+0.0	+8.8	-36.2	+1.0					
			+38.0	+0.0	+0.3				X_802.11a_5200M		
									Hz		

206	6906.500M Ave	34.0	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	40.4	85.0 Y_802.11a_5180M Hz	-44.6	Horiz
^	6906.567M	47.6	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	54.0	85.0 Z_802.11a_5180M Hz	-31.0	Horiz
^	6906.500M	43.5	+0.0 +0.0 +34.9	+0.0 +6.7 +0.0	+0.0 -36.5 +0.5	+0.0 +0.8	+0.0	49.9	85.0 Y_802.11a_5180M Hz	-35.1	Horiz
209	6986.633M Ave	33.8	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	40.4	85.0 Y_802.11a_5240M Hz	-44.6	Horiz
^	6986.667M	47.0	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	53.6	85.0 Z_802.11a_5240M Hz	-31.4	Horiz
^	6986.633M	42.6	+0.0 +0.0 +35.0	+0.0 +6.7 +0.0	+0.0 -36.4 +0.5	+0.0 +0.8	+0.0	49.2	85.0 Y_802.11a_5240M Hz	-35.8	Horiz
212	550.000M QP	43.4	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	38.9	85.0	-46.1	Vert
^	550.000M	45.2	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	40.7	85.0	-44.3	Vert
^	550.000M	42.0	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	37.5	85.0	-47.5	Vert
^	550.000M	41.2	+0.0 -27.6 +0.0	+18.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.3 +0.0	+0.0	36.7	85.0	-48.3	Vert
216	800.000M QP	37.7	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0	+0.0	38.7	85.0	-46.3	Vert
^	800.000M	40.9	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0	+0.0	41.9	85.0	-43.1	Vert
^	800.000M	39.9	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0	+0.0	40.9	85.0	-44.1	Vert
^	800.000M	37.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0	+0.0	38.6	85.0	-46.4	Vert
220	375.001M	45.2	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0	+0.0	38.6	85.0	-46.4	Vert
221	464.949M	45.0	+0.0 -27.8 +0.0	+16.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0	+0.0	38.2	85.0	-46.8	Vert
222	849.960M	35.4	+0.0 -27.0 +0.0	+23.2 +0.0 +0.0	+0.7 +0.0 +0.0	+5.5 +0.0	+0.0	37.8	85.0	-47.2	Horiz

223	800.010M QP	36.6	+0.0 -27.2 +0.0	+22.5 +0.0 +0.0	+0.4 +0.0 +0.0	+5.3 +0.0 +0.0	+0.0	37.6	85.0	-47.4	Horiz
224	23226.670 M Ave	38.6	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7 +0.0	-10.0	37.6	85.0	-47.4	Vert
^	23226.670 M	51.1	+0.0 +0.0 +0.0	+0.0 +0.0 +39.8	+0.0 -32.5 +0.0	+0.0 +1.7 +0.0	-10.0	50.1	85.0	-34.9	Vert
226	449.983M	44.1	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	37.0	85.0	-48.0	Horiz
227	900.000M	33.8	+0.0 -27.2 +0.0	+23.8 +0.0 +0.0	+0.7 +0.0 +0.0	+5.7 +0.0 +0.0	+0.0	36.8	85.0	-48.2	Vert
228	225.020M	43.4	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	36.3	85.0	-48.7	Vert
229	449.966M	43.2	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	36.1	85.0	-48.9	Vert
230	700.000M	34.2	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	35.8	85.0	-49.2	Vert
231	225.000M	42.8	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	35.7	85.0	-49.3	Horiz
232	500.000M	41.5	+0.0 -27.8 +0.0	+17.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	35.6	85.0	-49.4	Vert
233	349.994M	40.5	+0.0 -27.8 +0.0	+18.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	35.2	85.0	-49.8	Horiz
234	700.017M	33.2	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	34.8	85.0	-50.2	Horiz
235	599.983M	37.7	+0.0 -27.4 +0.0	+19.4 +0.0 +0.0	+0.5 +0.0 +0.0	+4.5 +0.0 +0.0	+0.0	34.7	85.0	-50.3	Horiz
236	900.010M	31.2	+0.0 -27.2 +0.0	+23.8 +0.0 +0.0	+0.7 +0.0 +0.0	+5.7 +0.0 +0.0	+0.0	34.2	85.0	-50.8	Horiz
237	292.520M	35.8	+22.8 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.0 +0.0 +0.0	+0.0	34.1	85.0	-50.9	Horiz
238	375.000M	40.2	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	33.6	85.0	-51.4	Horiz
239	442.999M	40.5	+0.0 -27.8 +0.0	+16.5 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	33.3	85.0	-51.7	Vert

240	415.030M	41.0	+0.0 -27.8 +0.0	+16.0 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	33.3	85.0	-51.7	Vert
241	384.033M	40.5	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	33.3	85.0	-51.7	Horiz
242	224.960M	40.2	+17.9 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	33.1	85.0	-51.9	Horiz
243	374.083M	39.9	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	33.1	85.0	-51.9	Horiz
244	287.000M	35.4	+22.3 -27.8 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	33.1	85.0	-51.9	Vert
245	475.883M	39.4	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	33.0	85.0	-52.0	Horiz
246	473.982M	39.5	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	32.9	85.0	-52.1	Vert
247	229.010M	39.8	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	32.8	85.0	-52.2	Vert
248	424.075M	40.1	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	32.5	85.0	-52.5	Horiz
249	229.030M	39.5	+18.0 -27.9 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.6 +0.0 +0.0	+0.0	32.5	85.0	-52.5	Horiz
250	700.033M	30.8	+0.0 -27.3 +0.0	+23.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	32.4	85.0	-52.6	Horiz
251	427.049M	39.9	+0.0 -27.8 +0.0	+16.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	32.3	85.0	-52.7	Vert
252	456.966M	38.9	+0.0 -27.8 +0.0	+16.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	31.9	85.0	-53.1	Vert
253	499.997M	37.3	+0.0 -27.8 +0.0	+17.4 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	31.4	85.0	-53.6	Horiz
254	524.942M	36.6	+0.0 -27.7 +0.0	+17.9 +0.0 +0.0	+0.4 +0.0 +0.0	+4.2 +0.0 +0.0	+0.0	31.4	85.0	-53.6	Horiz
255	450.008M	38.3	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	+0.0	31.2	85.0	-53.8	Horiz
256	464.433M	38.0	+0.0 -27.8 +0.0	+16.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	31.2	85.0	-53.8	Horiz

257	426.200M	38.8	+0.0	+16.2	+0.3	+3.7	+0.0	31.2	85.0	-53.8	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
258	432.930M	38.6	+0.0	+16.3	+0.3	+3.7	+0.0	31.1	85.0	-53.9	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
259	424.100M	38.1	+0.0	+16.1	+0.4	+3.7	+0.0	30.5	85.0	-54.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
260	228.950M	37.3	+18.0	+0.0	+0.3	+2.6	+0.0	30.3	85.0	-54.7	Vert
			-27.9	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
261	367.550M	36.4	+0.0	+17.8	+0.3	+3.4	+0.0	30.1	85.0	-54.9	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
262	386.442M	37.3	+0.0	+16.5	+0.4	+3.5	+0.0	29.9	85.0	-55.1	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
263	510.970M	35.6	+0.0	+17.6	+0.4	+4.1	+0.0	29.9	85.0	-55.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
264	364.900M	35.9	+0.0	+17.9	+0.3	+3.4	+0.0	29.7	85.0	-55.3	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
265	352.017M	35.0	+0.0	+18.8	+0.3	+3.3	+0.0	29.6	85.0	-55.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
266	491.970M	35.6	+0.0	+17.3	+0.4	+4.1	+0.0	29.6	85.0	-55.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
267	515.066M	34.9	+0.0	+17.7	+0.4	+4.2	+0.0	29.5	85.0	-55.5	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
268	380.983M	36.5	+0.0	+16.9	+0.4	+3.5	+0.0	29.5	85.0	-55.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
269	476.275M	35.8	+0.0	+17.0	+0.4	+4.0	+0.0	29.4	85.0	-55.6	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
270	523.770M	34.3	+0.0	+17.9	+0.4	+4.2	+0.0	29.1	85.0	-55.9	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
271	480.130M	35.2	+0.0	+17.1	+0.4	+4.0	+0.0	28.9	85.0	-56.1	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
272	542.030M	33.5	+0.0	+18.3	+0.4	+4.3	+0.0	28.9	85.0	-56.1	Vert
			-27.6	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
273	437.449M	36.1	+0.0	+16.4	+0.3	+3.8	+0.0	28.8	85.0	-56.2	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

274	375.418M	35.4	+0.0	+17.2	+0.4	+3.5	+0.0	28.7	85.0	-56.3	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
275	436.950M	36.0	+0.0	+16.4	+0.3	+3.8	+0.0	28.7	85.0	-56.3	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
276	410.999M	36.5	+0.0	+15.9	+0.4	+3.6	+0.0	28.6	85.0	-56.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
277	393.017M	36.3	+0.0	+16.1	+0.4	+3.6	+0.0	28.6	85.0	-56.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
278	467.370M	35.0	+0.0	+16.9	+0.3	+3.9	+0.0	28.3	85.0	-56.7	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
279	524.283M	33.2	+0.0	+17.9	+0.4	+4.2	+0.0	28.0	85.0	-57.0	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
280	369.690M	34.1	+0.0	+17.6	+0.3	+3.4	+0.0	27.6	85.0	-57.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
281	450.563M	34.6	+0.0	+16.6	+0.3	+3.8	+0.0	27.5	85.0	-57.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
282	462.825M	33.4	+0.0	+16.8	+0.3	+3.9	+0.0	26.6	85.0	-58.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
283	487.366M	32.8	+0.0	+17.2	+0.4	+4.0	+0.0	26.6	85.0	-58.4	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
284	379.917M	33.4	+0.0	+17.0	+0.4	+3.5	+0.0	26.5	85.0	-58.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
285	502.966M	32.2	+0.0	+17.5	+0.4	+4.1	+0.0	26.4	85.0	-58.6	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						
286	420.017M	34.0	+0.0	+16.1	+0.4	+3.7	+0.0	26.4	85.0	-58.6	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0	+0.0						

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

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

Specification: **FCC 15.407 (b)(7) / (15.205)**

Work Order #: **90303**

Date: 3/1/2010

Test Type: **Radiated Scan**

Time: 10:50:45

Equipment: **Wireless 802.11a/b/g SD Card Radio**

Sequence#: 53

Manufacturer: Silex Technology America, Inc.

Tested By: E. Wong

Model: SX-SDCAG

S/N: ED

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
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
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
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	09/21/2009	09/21/2011	P2948

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

Function	Manufacturer	Model #	S/N
Wireless 802.11a/b/g SD Card Radio*	Silex Technology America, Inc.	SX-SDCAG	ED

**Support Devices:**

Function	Manufacturer	Model #	S/N
Evaluator Board	Silex Technology America, Inc.	SX-560-6900	NA
Power Supply	Condor	HK-CH13-A05	NA
802.11 a/b/g Wireless Access Point	3-Com	WL-526	NA
Laptop	Sony	PCG-982L	8323330
Serial Server	Silex Technology America, Inc.	SX-560	SL004545

**Test Conditions / Notes:**

The EUT and support evaluation board are placed on the wooden table lined with a Styrofoam surface of 5 cm thickness. The EUT seeking modular approval is extended beyond the perimeter of the evaluation board via an extender card.

The support laptop sends data to the EUT via a support WiFi hub, the EUT receives processes and returns the data to the support computer via a support wireless hub.



Serial port of the support evaluation board is connected to the support laptop via a serial cable and all other ports are left unpopulated.

Freq : 5.15 - 5.25GHz, 5.725 - 5.825GHz

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Modulation: 802.11 a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

Antenna Manufacturer : Pulse

Antenna Gain: : 3.2dBi @2.5GHz

Antenna Gain: : 4.2dBi @5.0GHz

Transmit via Antenna #1

17°C, 41% relative humidity

Emission profile of the EUT and antennas rotated along the three orthogonal axis was investigated. Maximization of worse case emission measured with Ethertronics antenna installed. The lowest measured fundamental emission = 105dbuV/m , -20dBc = 85dBuV.

Frequency range of measurement = 9 kHz- 40 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- 40000 MHz RBW=1 MHz, VBW=1 MHz.

**Transducer Legend:**

T1=Helix Cable 54' ANP05565 090410	T2=HF_pre AMP-1-26GHz_AN00786-072810.TRN
T3=Hi Freq_40GHz_2ft-AN02948-092111	T4=Horn Ant AN00849 060610
T5=HPF_3GHz-AN02744-032510	T6=HPF_6GHz-AN02755-032510

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	11611.340 M Ave	35.7	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	49.7	54.0	-4.3	Vert
										X_802.11a	
^	11611.340 M	48.1	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	62.1	54.0	+8.1	Vert
										X_802.11a	
3	11615.450 M Ave	34.7	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	48.7	54.0	-5.3	Horiz
										Z_802.11a	
^	11615.450 M	49.2	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	63.2	54.0	+9.2	Horiz
										Z_802.11a	
5	11611.340 M Ave	34.6	+9.6 +0.0	-35.9 +0.4	+1.1	+38.8	+0.0	48.6	54.0	-5.4	Horiz
										Y_802.11a	

6	11608.760	34.1	+9.6	-35.9	+1.1	+38.8	+0.0	48.1	54.0	-5.9	Vert
	M		+0.0	+0.4					Y_802.11a		
	Ave										
^	11608.760	45.7	+9.6	-35.9	+1.1	+38.8	+0.0	59.7	54.0	+5.7	Vert
	M		+0.0	+0.4					Y_802.11a		
	Ave										
8	11611.340	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	54.0	-6.1	Horiz
	M		+0.0	+0.4					X_802.11a		
	Ave										
^	11611.340	47.6	+9.6	-35.9	+1.1	+38.8	+0.0	61.6	54.0	+7.6	Horiz
	M		+0.0	+0.4					Y_802.11a		
	Ave										
^	11611.340	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	54.0	+6.9	Horiz
	M		+0.0	+0.4					X_802.11a		
	Ave										
11	11610.500	33.9	+9.6	-35.9	+1.1	+38.8	+0.0	47.9	54.0	-6.1	Vert
	M		+0.0	+0.4					Z_802.11a		
	Ave										
^	11610.500	46.9	+9.6	-35.9	+1.1	+38.8	+0.0	60.9	54.0	+6.9	Vert
	M		+0.0	+0.4					Z_802.11a		
	Ave										
13	15601.400	28.0	+11.8	-34.6	+1.4	+38.0	+0.0	45.1	54.0	-8.9	Vert
	M		+0.0	+0.5					Z_802.11a		
	Ave										
14	11530.000	30.7	+9.6	-35.9	+1.1	+38.8	+0.0	44.7	54.0	-9.3	Vert
	M		+0.0	+0.4					Y_802.11a		
	Ave										
15	11530.000	30.5	+9.6	-35.9	+1.1	+38.8	+0.0	44.5	54.0	-9.5	Vert
	M		+0.0	+0.4					Z_802.11a		
	Ave										
^	11530.000	44.2	+9.6	-35.9	+1.1	+38.8	+0.0	58.2	54.0	+4.2	Vert
	M		+0.0	+0.4					Z_802.11a		
	Ave										
^	11530.000	43.8	+9.6	-35.9	+1.1	+38.8	+0.0	57.8	54.0	+3.8	Vert
	M		+0.0	+0.4					Y_802.11a		
	Ave										
^	11530.000	42.0	+9.6	-35.9	+1.1	+38.8	+0.0	56.0	54.0	+2.0	Vert
	M		+0.0	+0.4					X_802.11a		
	Ave										
19	15601.400	27.4	+11.8	-34.6	+1.4	+38.0	+0.0	44.5	54.0	-9.5	Horiz
	M		+0.0	+0.5					Y_802.11a		
	Ave										
20	11490.500	30.3	+9.6	-35.9	+1.1	+38.8	+0.0	44.3	54.0	-9.7	Vert
	M		+0.0	+0.4					Y_802.11a		
	Ave										
21	11490.500	30.1	+9.6	-35.9	+1.1	+38.8	+0.0	44.1	54.0	-9.9	Horiz
	M		+0.0	+0.4					Z_802.11a		
	Ave										
22	11530.000	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	54.0	-10.0	Horiz
	M		+0.0	+0.4					Y_802.11a		
	Ave										

23	11490.500	30.0	+9.6	-35.9	+1.1	+38.8	+0.0	44.0	54.0	-10.0	Horiz
	M		+0.0	+0.4					Y_802.11a		
	Ave										
24	11530.000	29.6	+9.6	-35.9	+1.1	+38.8	+0.0	43.6	54.0	-10.4	Horiz
	M		+0.0	+0.4					Z_802.11a		
	Ave										
^	11530.000	43.3	+9.6	-35.9	+1.1	+38.8	+0.0	57.3	54.0	+3.3	Horiz
	M		+0.0	+0.4					Z_802.11a		
	Ave										
^	11530.000	41.7	+9.6	-35.9	+1.1	+38.8	+0.0	55.7	54.0	+1.7	Horiz
	M		+0.0	+0.4					Y_802.11a		
	Ave										
^	11530.000	38.5	+9.6	-35.9	+1.1	+38.8	+0.0	52.5	54.0	-1.5	Horiz
	M		+0.0	+0.4					X_802.11a		
	Ave										
28	15540.290	26.4	+11.7	-34.6	+1.4	+38.0	+0.0	43.4	54.0	-10.6	Horiz
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15540.330	39.4	+11.7	-34.6	+1.4	+38.0	+0.0	56.4	54.0	+2.4	Horiz
	M		+0.0	+0.5					Y_802.11a		
	Ave										
^	15540.300	38.8	+11.7	-34.6	+1.4	+38.0	+0.0	55.8	54.0	+1.8	Horiz
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15540.370	36.9	+11.7	-34.6	+1.4	+38.0	+0.0	53.9	54.0	-0.1	Horiz
	M		+0.0	+0.5					X_802.11a		
	Ave										
32	15601.400	26.2	+11.8	-34.6	+1.4	+38.0	+0.0	43.3	54.0	-10.7	Horiz
	M		+0.0	+0.5					Z_802.11a		
	Ave										
33	15540.330	26.1	+11.7	-34.6	+1.4	+38.0	+0.0	43.1	54.0	-10.9	Vert
	M		+0.0	+0.5					Y_802.11a		
	Ave										
34	15540.330	25.4	+11.7	-34.6	+1.4	+38.0	+0.0	42.4	54.0	-11.6	Horiz
	M		+0.0	+0.5					Y_802.11a		
	Ave										
35	15601.400	25.2	+11.8	-34.6	+1.4	+38.0	+0.0	42.3	54.0	-11.7	Vert
	M		+0.0	+0.5					X_802.11a		
	Ave										
^	15601.400	40.1	+11.8	-34.6	+1.4	+38.0	+0.0	57.2	54.0	+3.2	Vert
	M		+0.0	+0.5					Z_802.11a		
	Ave										
^	15601.400	39.0	+11.8	-34.6	+1.4	+38.0	+0.0	56.1	54.0	+2.1	Vert
	M		+0.0	+0.5					Y_802.11a		
	Ave										
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	54.0	+1.5	Vert
	M		+0.0	+0.5					X_802.11a		
	Ave										
39	15540.330	25.3	+11.7	-34.6	+1.4	+38.0	+0.0	42.3	54.0	-11.7	Vert
	M		+0.0	+0.5					X_802.11a		
	Ave										

40	15601.400	25.1	+11.8	-34.6	+1.4	+38.0	+0.0	42.2	54.0	-11.8	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
41	15540.300	25.2	+11.7	-34.6	+1.4	+38.0	+0.0	42.2	54.0	-11.8	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15540.330	40.9	+11.7	-34.6	+1.4	+38.0	+0.0	57.9	54.0	+3.9	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15540.300	37.8	+11.7	-34.6	+1.4	+38.0	+0.0	54.8	54.0	+0.8	Vert
	M		+0.0	+0.5							
									Z_802.11a		
^	15540.330	35.3	+11.7	-34.6	+1.4	+38.0	+0.0	52.3	54.0	-1.7	Vert
	M		+0.0	+0.5							
									X_802.11a		
45	11490.500	28.1	+9.6	-35.9	+1.1	+38.8	+0.0	42.1	54.0	-11.9	Vert
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11490.500	45.9	+9.6	-35.9	+1.1	+38.8	+0.0	59.9	54.0	+5.9	Vert
	M		+0.0	+0.4							
									Y_802.11a		
^	11490.500	44.0	+9.6	-35.9	+1.1	+38.8	+0.0	58.0	54.0	+4.0	Vert
	M		+0.0	+0.4							
									X_802.11a		
^	11490.500	42.3	+9.6	-35.9	+1.1	+38.8	+0.0	56.3	54.0	+2.3	Vert
	M		+0.0	+0.4							
									Z_802.11a		
49	15719.330	24.8	+11.8	-34.4	+1.4	+38.0	+0.0	42.1	54.0	-11.9	Vert
	M		+0.0	+0.5							
	Ave								X_802.11a		
50	15601.400	25.0	+11.8	-34.6	+1.4	+38.0	+0.0	42.1	54.0	-11.9	Horiz
	M		+0.0	+0.5							
	Ave								X_802.11a		
^	15601.400	40.8	+11.8	-34.6	+1.4	+38.0	+0.0	57.9	54.0	+3.9	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
^	15601.400	38.4	+11.8	-34.6	+1.4	+38.0	+0.0	55.5	54.0	+1.5	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15601.400	37.4	+11.8	-34.6	+1.4	+38.0	+0.0	54.5	54.0	+0.5	Horiz
	M		+0.0	+0.5							
									X_802.11a		
54	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	54.0	-12.0	Horiz
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15719.330	39.6	+11.8	-34.4	+1.4	+38.0	+0.0	56.9	54.0	+2.9	Horiz
	M		+0.0	+0.5							
									Z_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	54.0	+0.7	Horiz
	M		+0.0	+0.5							
									X_802.11a		

^	15719.330	36.8	+11.8	-34.4	+1.4	+38.0	+0.0	54.1	54.0	+0.1	Horiz
	M		+0.0	+0.5							
									Y_802.11a		
58	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	54.0	-12.0	Vert
	M		+0.0	+0.5							
	Ave								Z_802.11a		
^	15719.330	38.1	+11.8	-34.4	+1.4	+38.0	+0.0	55.4	54.0	+1.4	Vert
	M		+0.0	+0.5							
									Y_802.11a		
^	15719.330	37.5	+11.8	-34.4	+1.4	+38.0	+0.0	54.8	54.0	+0.8	Vert
	M		+0.0	+0.5							
									X_802.11a		
^	15719.330	37.4	+11.8	-34.4	+1.4	+38.0	+0.0	54.7	54.0	+0.7	Vert
	M		+0.0	+0.5							
									Z_802.11a		
62	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	54.0	-12.0	Vert
	M		+0.0	+0.5							
	Ave								Y_802.11a		
63	15719.330	24.7	+11.8	-34.4	+1.4	+38.0	+0.0	42.0	54.0	-12.0	Horiz
	M		+0.0	+0.5							
	Ave								X_802.11a		
64	11530.000	27.9	+9.6	-35.9	+1.1	+38.8	+0.0	41.9	54.0	-12.1	Vert
	M		+0.0	+0.4							
	Ave								X_802.11a		
65	15719.330	24.6	+11.8	-34.4	+1.4	+38.0	+0.0	41.9	54.0	-12.1	Horiz
	M		+0.0	+0.5							
	Ave								Y_802.11a		
66	15540.330	24.7	+11.7	-34.6	+1.4	+38.0	+0.0	41.7	54.0	-12.3	Horiz
	M		+0.0	+0.5							
	Ave								X_802.11a		
67	11490.500	27.0	+9.6	-35.9	+1.1	+38.8	+0.0	41.0	54.0	-13.0	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		
^	11490.500	46.5	+9.6	-35.9	+1.1	+38.8	+0.0	60.5	54.0	+6.5	Horiz
	M		+0.0	+0.4							
									Z_802.11a		
^	11490.500	44.9	+9.6	-35.9	+1.1	+38.8	+0.0	58.9	54.0	+4.9	Horiz
	M		+0.0	+0.4							
									Y_802.11a		
^	11490.500	39.4	+9.6	-35.9	+1.1	+38.8	+0.0	53.4	54.0	-0.6	Horiz
	M		+0.0	+0.4							
									X_802.11a		
71	11490.500	26.7	+9.6	-35.9	+1.1	+38.8	+0.0	40.7	54.0	-13.3	Vert
	M		+0.0	+0.4							
	Ave								Z_802.11a		
72	11530.000	25.4	+9.6	-35.9	+1.1	+38.8	+0.0	39.4	54.0	-14.6	Horiz
	M		+0.0	+0.4							
	Ave								X_802.11a		
73	10360.130	51.6	+8.8	-36.2	+1.0	+38.0	+0.0	63.5	85.0	-21.5	Horiz
	M		+0.0	+0.3							
									Z_802.11a		

74	10479.670 M	50.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.5	85.0	-22.5	Horiz	X_802.11a
75	10400.600 M	50.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	62.0	85.0	-23.0	Horiz	X_802.11a
76	10360.200 M	49.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.8	85.0	-23.2	Horiz	X_802.11a
77	10360.330 M	49.7	+8.8 +0.4	-36.2 +0.0	+1.0	+38.0	+0.0	61.7	85.0	-23.3	Vert	X_802.11a
78	10400.930 M	49.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	61.5	85.0	-23.5	Horiz	Z_802.11a
79	17295.000 M	38.1	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.7	85.0	-24.3	Vert	X_802.11a
80	17235.750 M	38.4	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	60.6	85.0	-24.4	Vert	X_802.11a
81	10479.670 M	48.5	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	60.5	85.0	-24.5	Vert	X_802.11a
82	17295.000 M	37.8	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.4	85.0	-24.6	Vert	Y_802.11a
83	17294.920 M	37.4	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	60.0	85.0	-25.0	Vert	Z_802.11a
84	17295.000 M	37.3	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.9	85.0	-25.1	Horiz	X_802.11a
85	10479.670 M	47.7	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.7	85.0	-25.3	Vert	Z_802.11a
86	17295.000 M	36.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	59.5	85.0	-25.5	Horiz	Z_802.11a
87	17235.750 M	37.0	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	59.2	85.0	-25.8	Vert	Z_802.11a
88	10479.670 M	47.2	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	85.0	-25.8	Vert	Y_802.11a
89	10360.500 M	47.3	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.2	85.0	-25.8	Horiz	Y_802.11a
90	10400.930 M	47.2	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	59.1	85.0	-25.9	Vert	X_802.11a

91	17235.750 M	36.7	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.9	85.0	-26.1	Horiz
									Z_802.11a		
92	10360.130 M	46.8	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	58.7	85.0	-26.3	Vert
									Z_802.11a		
93	17295.000 M	35.9	+12.5 +0.0	-33.6 +0.3	+1.5	+41.9	+0.0	58.5	85.0	-26.5	Horiz
									Y_802.11a		
94	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	85.0	-26.7	Horiz
									Y_802.11a		
95	17235.750 M	36.1	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.3	85.0	-26.7	Vert
									Y_802.11a		
96	17235.750 M	35.9	+12.5 +0.0	-33.7 +0.3	+1.5	+41.6	+0.0	58.1	85.0	-26.9	Horiz
									X_802.11a		
97	10479.670 M	45.9	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.9	85.0	-27.1	Horiz
									Y_802.11a		
98	10400.930 M	45.9	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.8	85.0	-27.2	Horiz
									Y_802.11a		
99	10479.670 M	45.6	+8.9 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	57.6	85.0	-27.4	Horiz
									Z_802.11a		
100	10400.930 M	44.1	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	56.0	85.0	-29.0	Vert
									Z_802.11a		
101	10400.930 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	85.0	-29.5	Vert
									Y_802.11a		
102	10360.170 M	43.6	+8.8 +0.0	-36.2 +0.3	+1.0	+38.0	+0.0	55.5	85.0	-29.5	Vert
									Y_802.11a		
103	17416.140 M	31.7	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.9	85.0	-30.1	Horiz
									Y_802.11a		
104	17413.600 M	31.1	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.3	85.0	-30.7	Vert
									Z_802.11a		

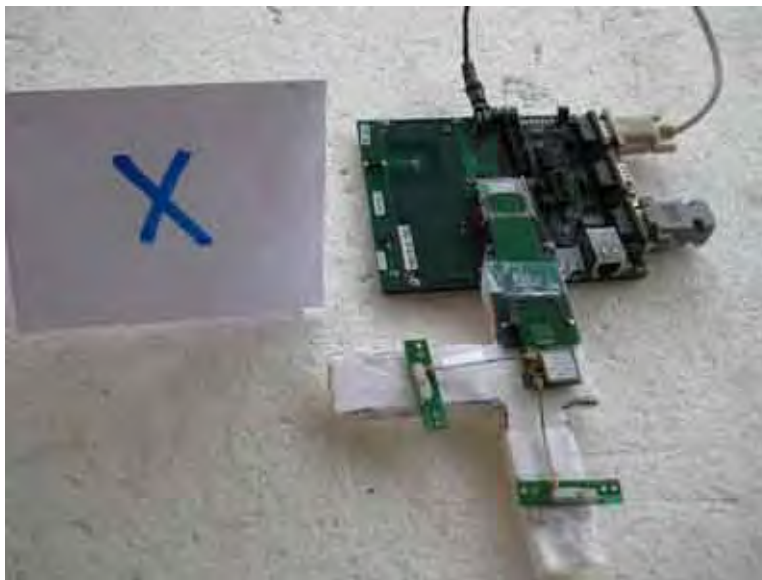
105	17416.140 M	31.0	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.2	85.0	-30.8	Horiz
									X_802.11a		
106	17416.140 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	85.0	-30.9	Vert
									X_802.11a		
107	17413.560 M	30.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	54.1	85.0	-30.9	Vert
									Y_802.11a		
108	17420.250 M	29.9	+12.5 +0.0	-33.6 +0.4	+1.5	+42.4	+0.0	53.1	85.0	-31.9	Horiz
									Z_802.11a		



**Test Setup Photos**



Antenna Manufacture: Ethertronics - Front View in X Orientation



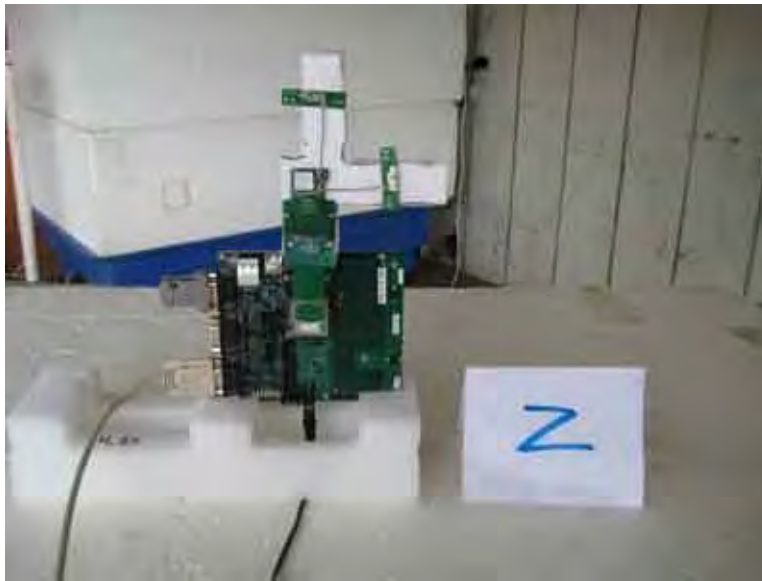
Antenna Manufacture: Ethertronics - Back View in X Orientation



Antenna Manufacture: Ethertronics - Front View in Y Orientation



Antenna Manufacture: Ethertronics - Back View in Y Orientation



Antenna Manufacture: Ethertronics - Front View in Z Orientation



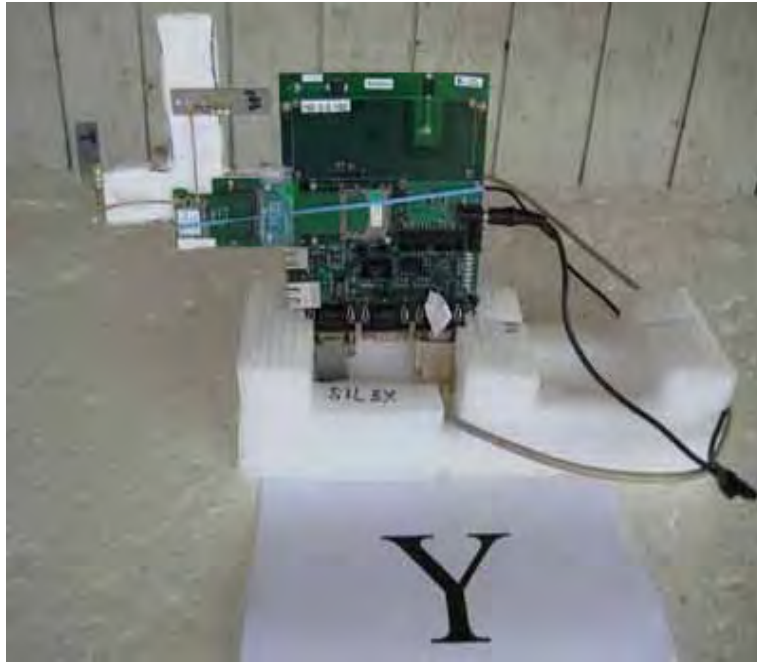
Antenna Manufacture: Ethertronics - Back View in Z Orientation



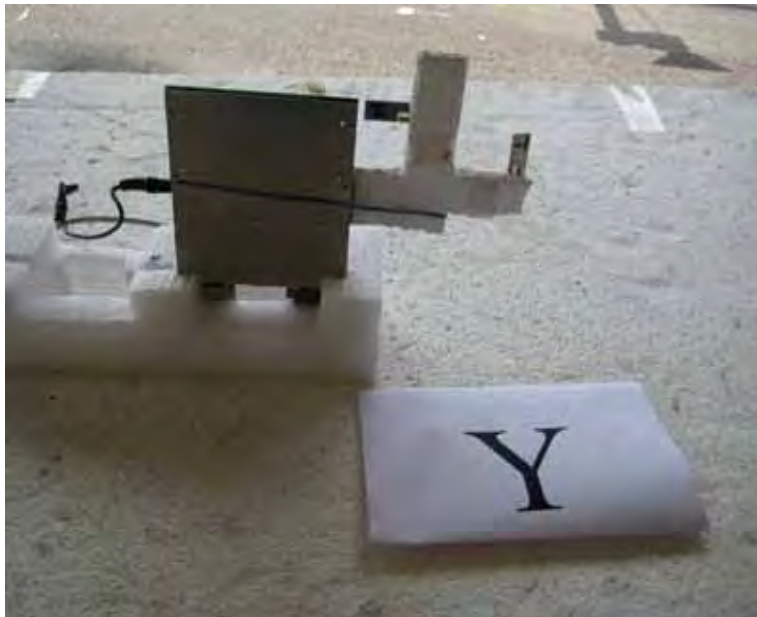
Antenna Manufacture: Pulse - Front View in X Orientation



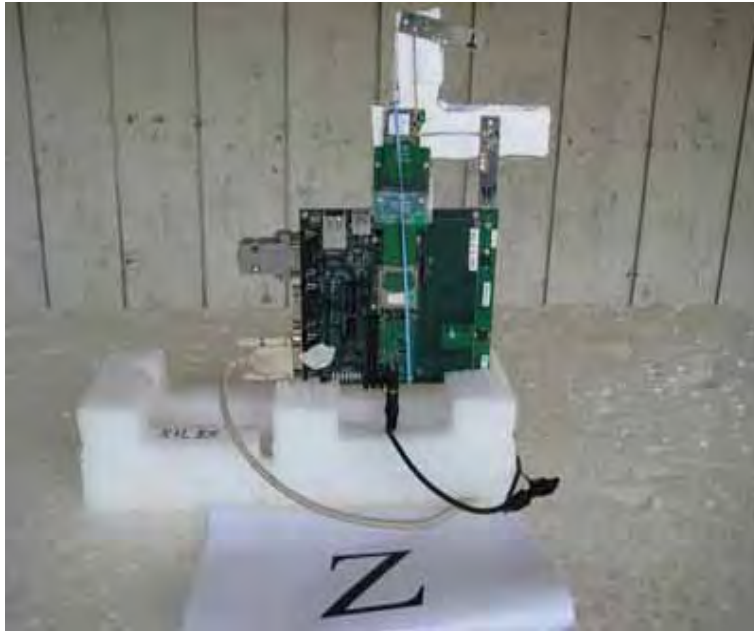
Antenna Manufacture: Pulse - Back View in X Orientation



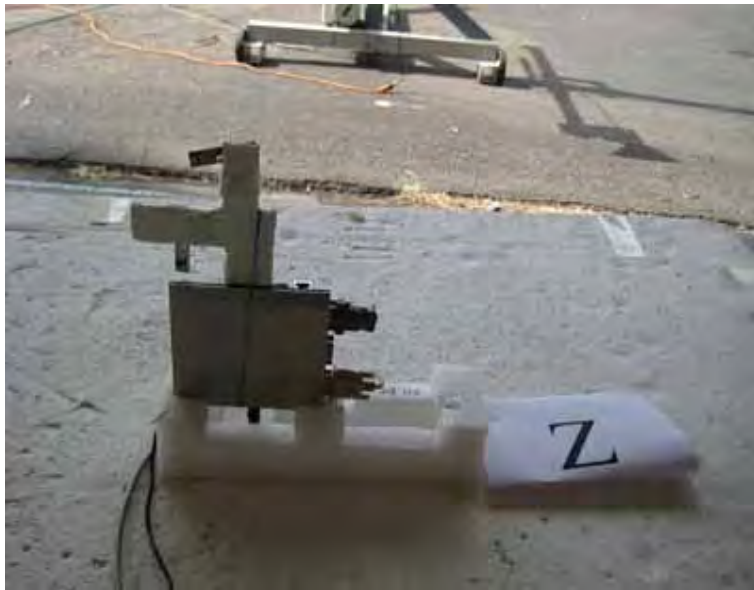
Antenna Manufacture: Pulse - Front View in Y Orientation



Antenna Manufacture: Pulse - Back View in Y Orientation



Antenna Manufacture: Pulse - Front View in Z Orientation



Antenna Manufacture: Pulse - Back View in Z Orientation

## 15.407(g) FREQUENCY STABILITY

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Temperature Chamber	NA	080608	080610	01878
Thermometer	6995216	11/09/2009	11/09/2011	05947
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
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
Helix Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
2'-40GHz cable	NA	09/14/2009	09/14/2011	P02947

### Setup

The Frequency point ( F<sub>l</sub> and F<sub>h</sub>) at which the emission crosses the radiated emission limit line was obtained from the radiated bandedge plot. To ensure the emission is maintained in the band of operation under all condition of normal operation as specified in the user manual, the device was placed in a temperature chamber and the relative frequency drift was measured and added to the measured F<sub>l</sub> and F<sub>h</sub>.

Band of operation:

5150 – 5250 MHz

5725 – 5825 MHz

Manufacturer declared operating temperature:

-20 – 70°C

**Test Data Sheets**

Temp (c )	Low Frequency 5157	High Frequency 5264*
-20	5157.0201	5264.0210
-10	5157.0181	5264.0252
0	5157.0282	5264.0522
10	5157.0122	5264.0370
20	5157.0000	5264.0000
30	5156.9872	5264.0130
40	5156.9722	5263.9990
50	5156.9832	5264.0096
60	5157.0141	5264.0152
70	5157.0301	5264.0482

\* The emission limit for Fh extends out of operating band in accordance to 15.407(b)(1) limit: For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the **5.15-5.35 GHz** band shall not exceed an EIRP of - 27 dBm/MHz.

Temp (c )	Low Frequency 5728	High Frequency 5820
-20	5738.0481	5820.0100
-10	5738.0570	5820.0321
0	5738.0561	5820.0499
10	5738.0591	5820.0409
20	5738.0000	5820.0000
30	5738.0300	5819.9988
40	5737.9990	5819.9970
50	5738.0407	5820.0035
60	5738.0501	5820.0281
70	5738.0790	5820.0551

**Results:**

The emission is maintained within the band of operation and/or emission limit under all conditions of normal operation as specified in the user’s manual.



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

## BAND EDGE

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	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
Heliac 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

### Setup

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

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Ch 36,40,48, 149, 153, 161.

Modulation: 802.11a (54 mbps),

Ch 36,40,48, 149, 153, 161.

Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

13°C, 58% Relative Humidity

**Limit Line Calculations for Antenna Manufactured by Ethertronics:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 3.5 dBi = 2.24 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

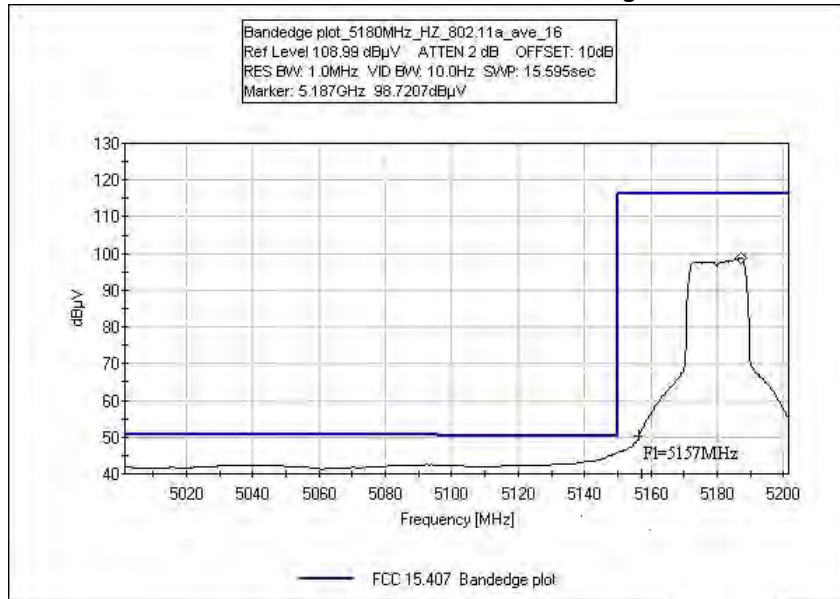
$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002 \times 30 \times 2.24}}{3}$$

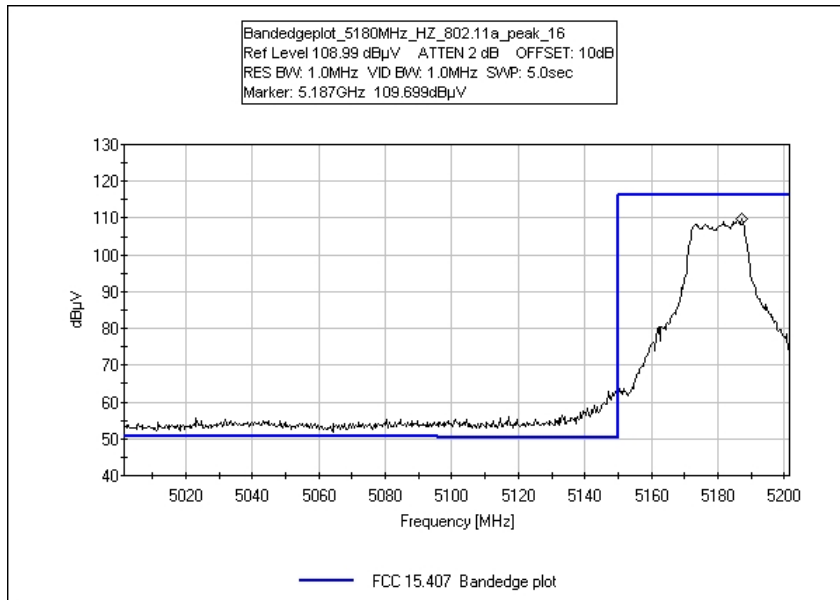
E = 0.006693V = 76.5dBuV/m @ 3m.

**Test Data Sheets**

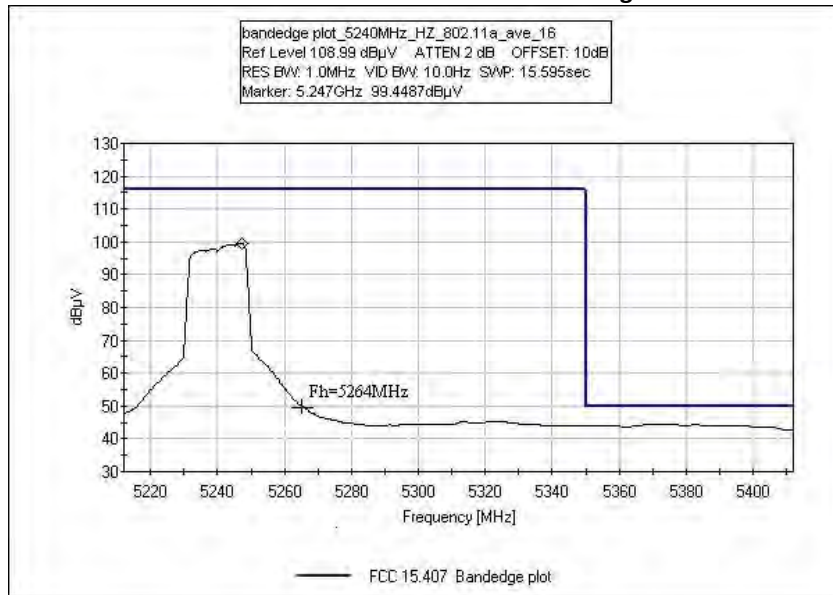
**BANDEGE 802.11A - 5180MHz Average**



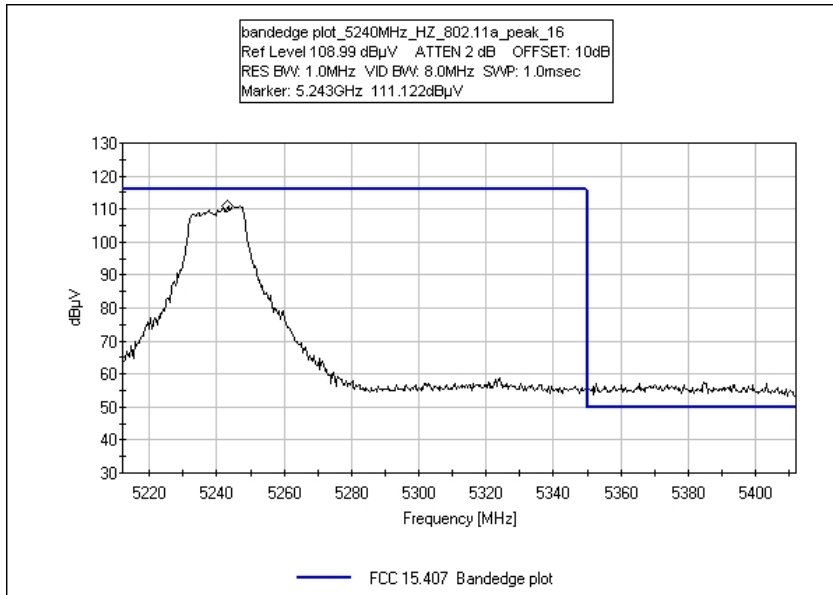
**BANDEGE 802.11A - 5180MHz Peak**



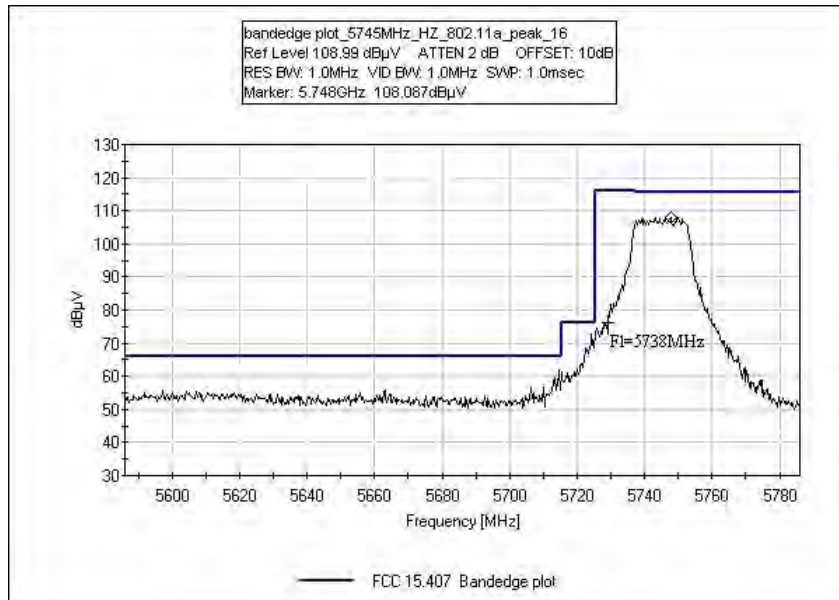
### BANDEDGE 802.11A - 5240MHz Average



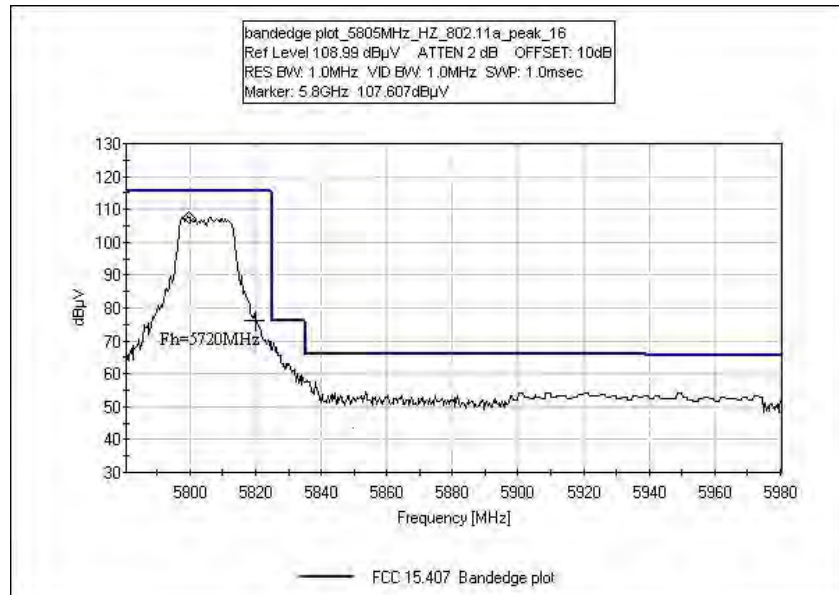
### BANDEDGE 802.11A - 5240MHz Peak



### BANDEDGE 802.11A - 5745MHz Peak



### BANDEDGE 802.11A - 5805MHz Peak



**Limit Line Calculations for Antenna Manufactured by Pulse:**

15.407 (b) Undesirable emission limits: Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz** band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the **5.725-5.825 GHz** band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Limit: EIRP -27dBm/MHz

Gain at 5.8 MHz = 4.2 dBi = 2.6 (linear gain)

d= 3 meter

Power density formula

$$Power = \frac{(E d)^2}{30 \times G}$$

Power = EIRP = -27dBm/MHz = 0.000002W.

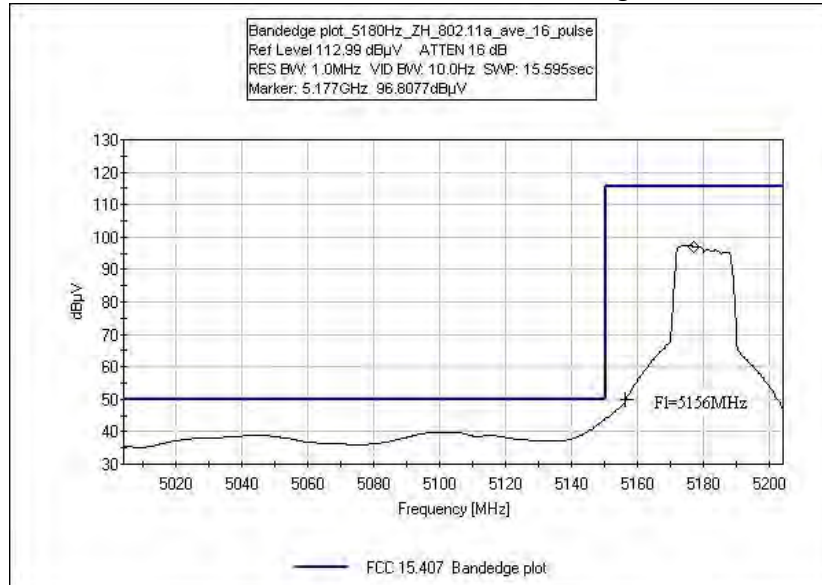
$$E = \frac{\sqrt{Px30G}}{d}$$

$$E = \frac{\sqrt{0.000002x30x2.6}}{3}$$

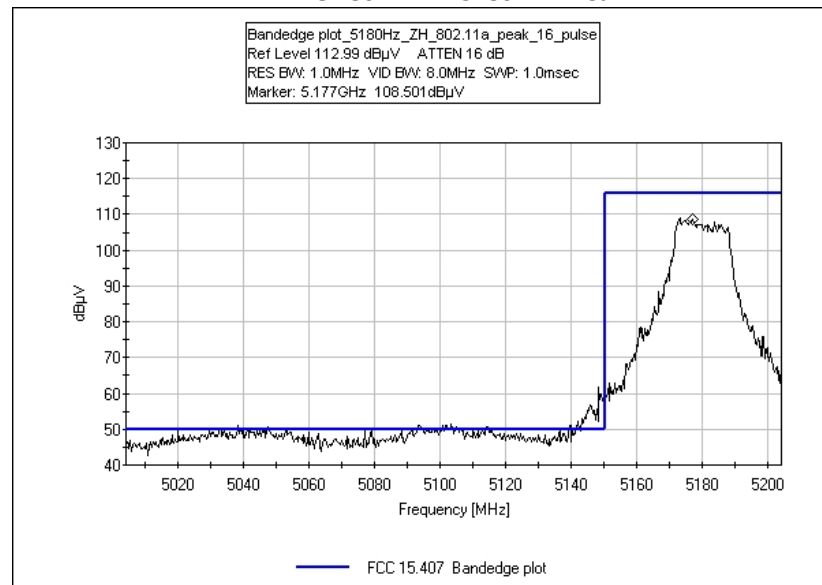
E = 0.004163v = 72.3dBuV/m @ 3m.

**Test Data Sheets**

**BANDEGE 802.11A - 5180MHz Average**

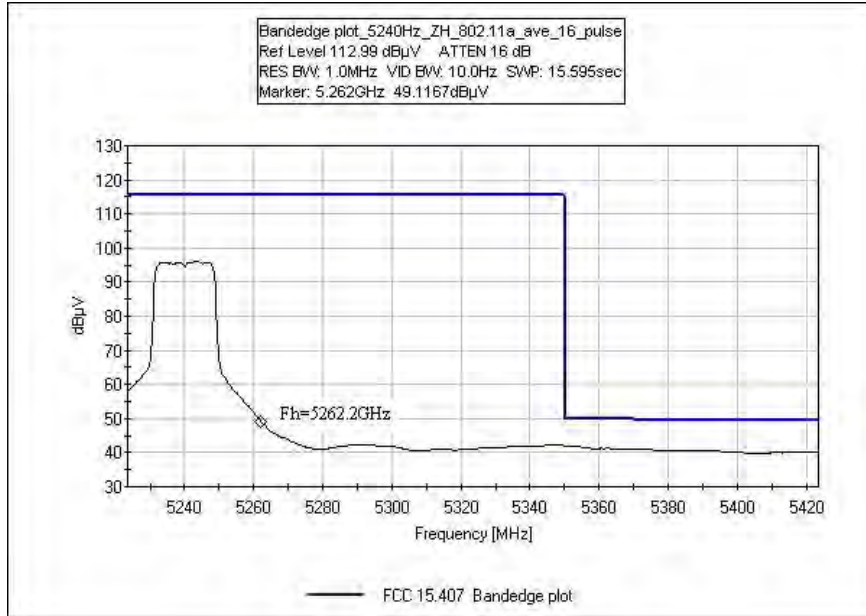


**BANDEGE 802.11A - 5180MHz Peak**

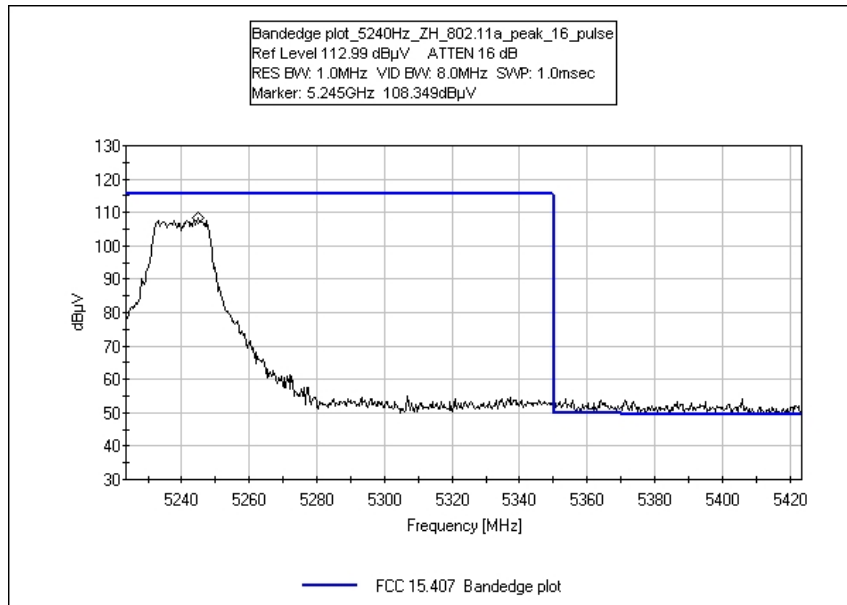




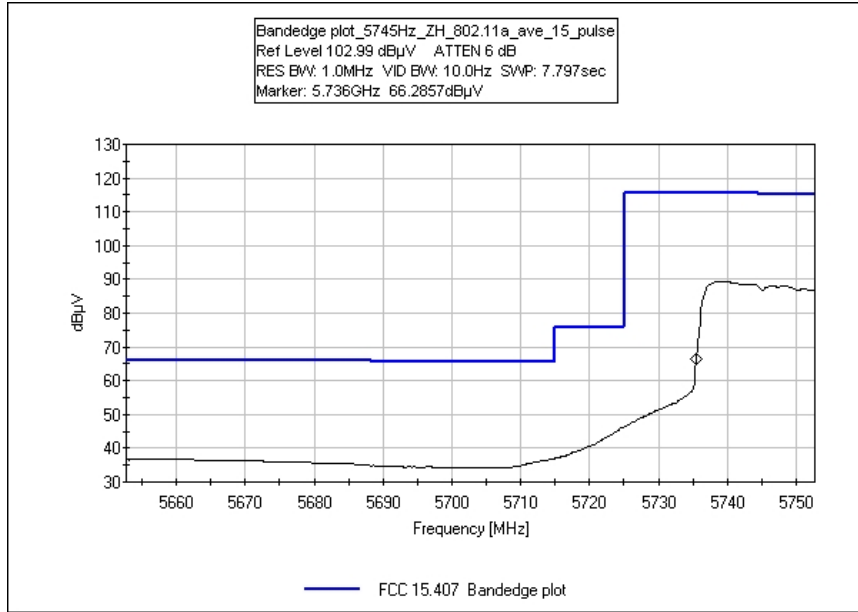
**BANDEDGE 802.11A - 5240MHz Average**



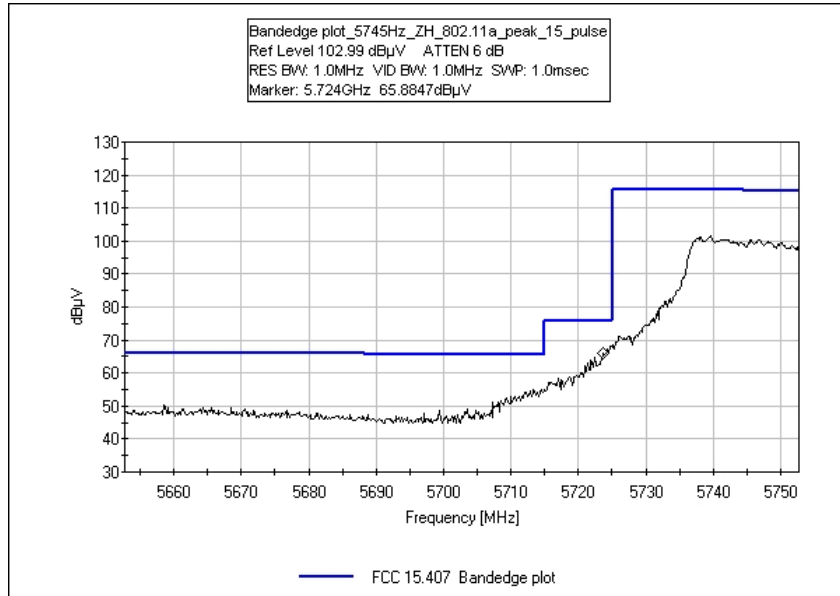
**BANDEDGE 802.11A - 5240MHz Peak**



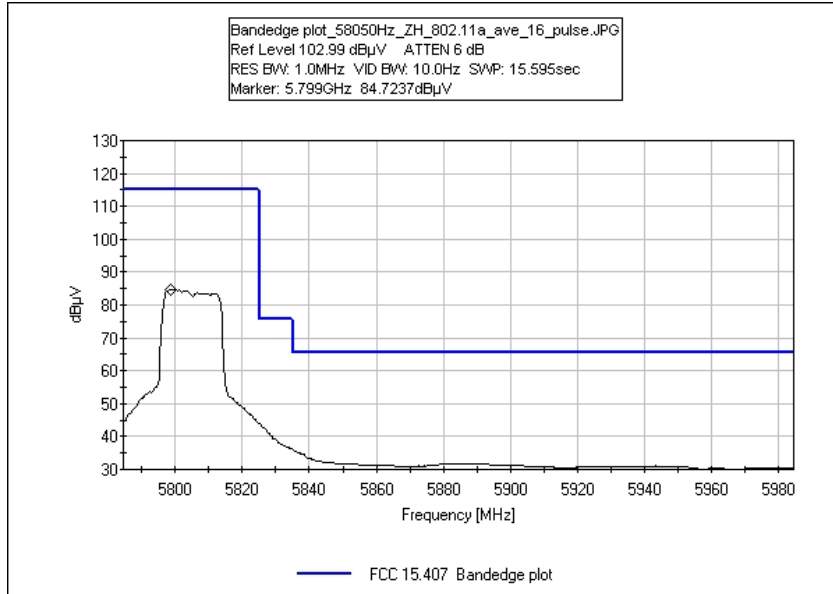
**BANDEDGE 802.11A - 5745MHz Average**



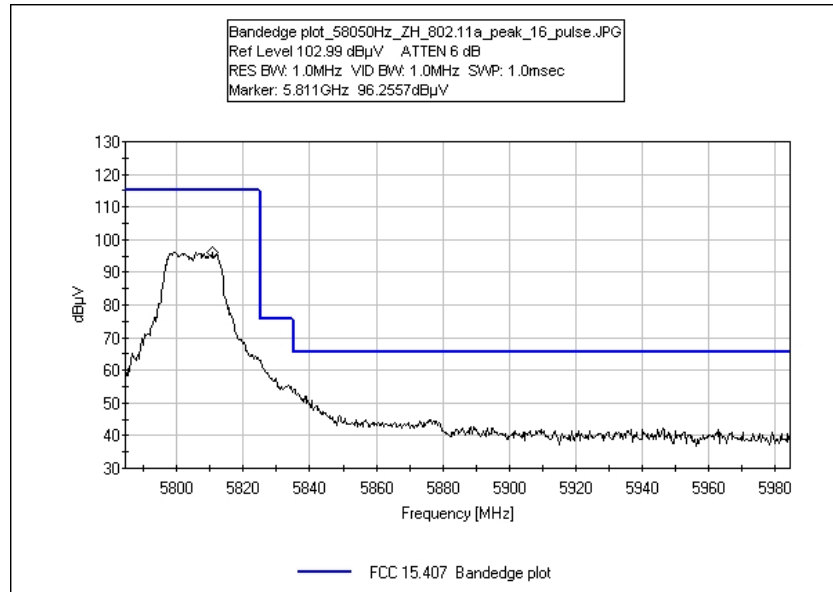
**BANDEDGE 802.11A - 5745MHz Peak**



### BANDEDGE 802.11A - 5805MHz Average



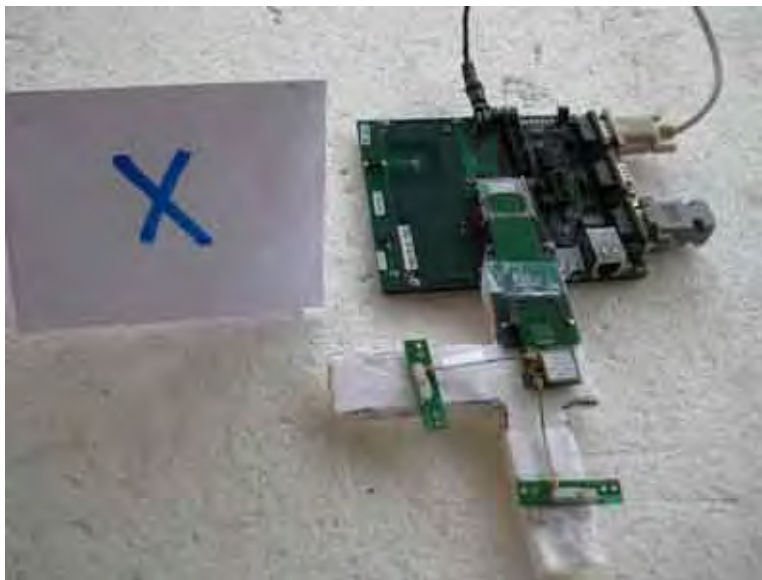
### BANDEDGE 802.11A - 5805MHz Peak



**Test Setup Photos**



Antenna Manufacture: Ethertronics - Front View in X Orientation



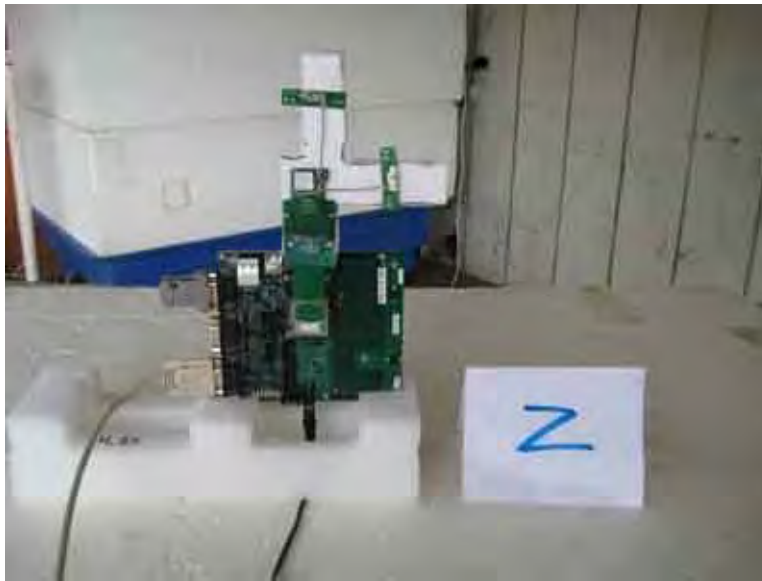
Antenna Manufacture: Ethertronics - Back View in X Orientation



Antenna Manufacture: Ethertronics - Front View in Y Orientation



Antenna Manufacture: Ethertronics - Back View in Y Orientation



Antenna Manufacture: Ethertronics - Front View in Z Orientation



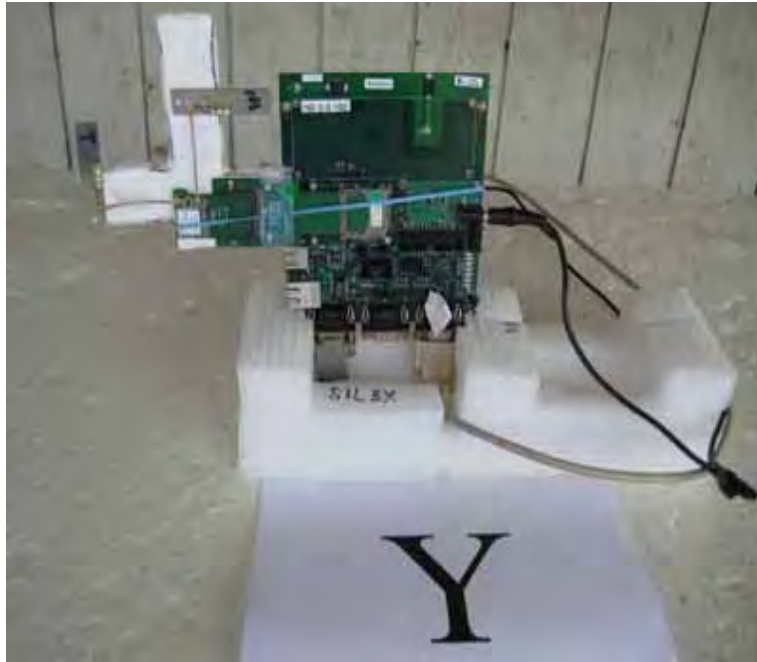
Antenna Manufacture: Ethertronics - Back View in Z Orientation



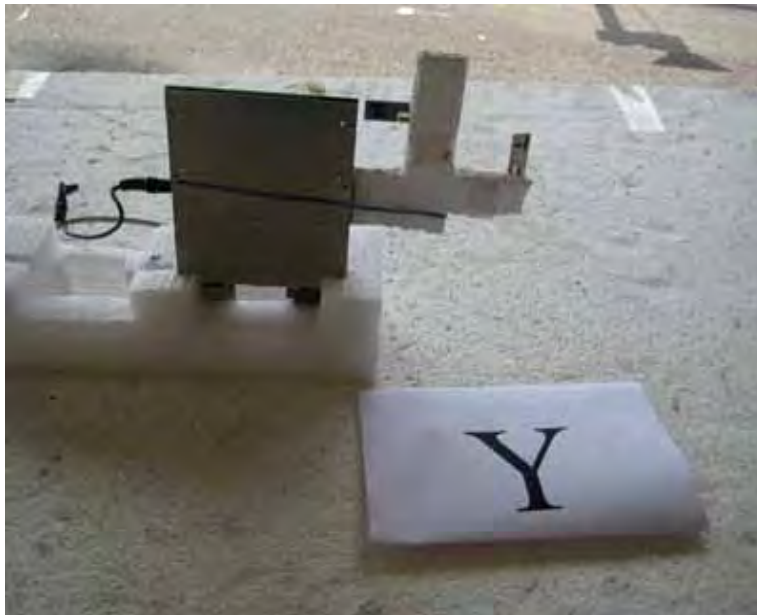
Antenna Manufacture: Pulse - Front View in X Orientation



Antenna Manufacture: Pulse - Back View in X Orientation

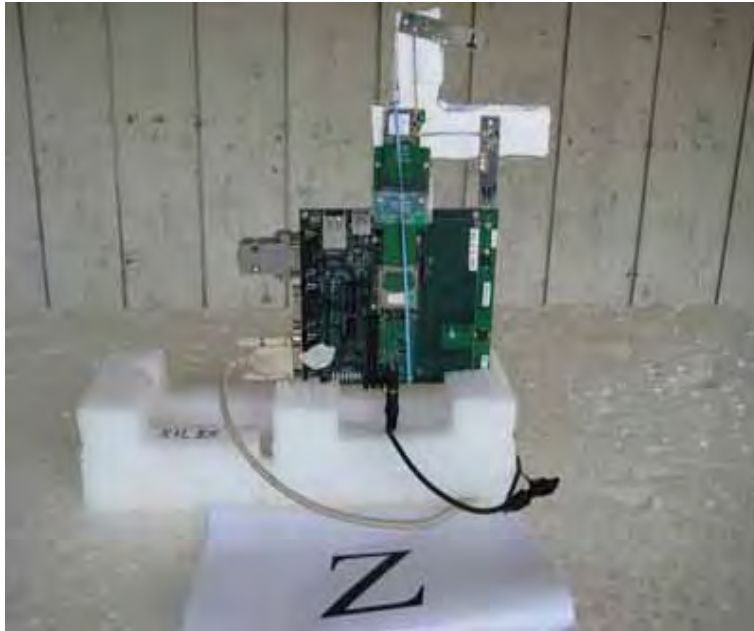


Antenna Manufacture: Pulse - Front View in Y Orientation

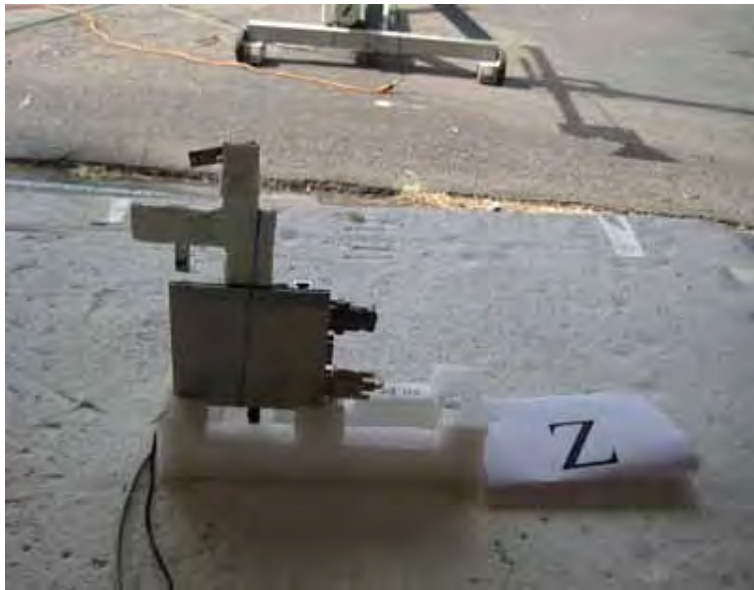


Antenna Manufacture: Pulse - Back View in Y Orientation





Antenna Manufacture: Pulse - Front View in Z Orientation



Antenna Manufacture: Pulse - Back View in Z Orientation

**26dB BANDWIDTH**

Engineer Name: Eddie Wong

Test Equipment				
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

**Setup**

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

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Ch 36,40,48, 149, 153, 161.

Modulation: 802.11a (54 mbps).

Ch 36,40,48, 149, 153, 161.

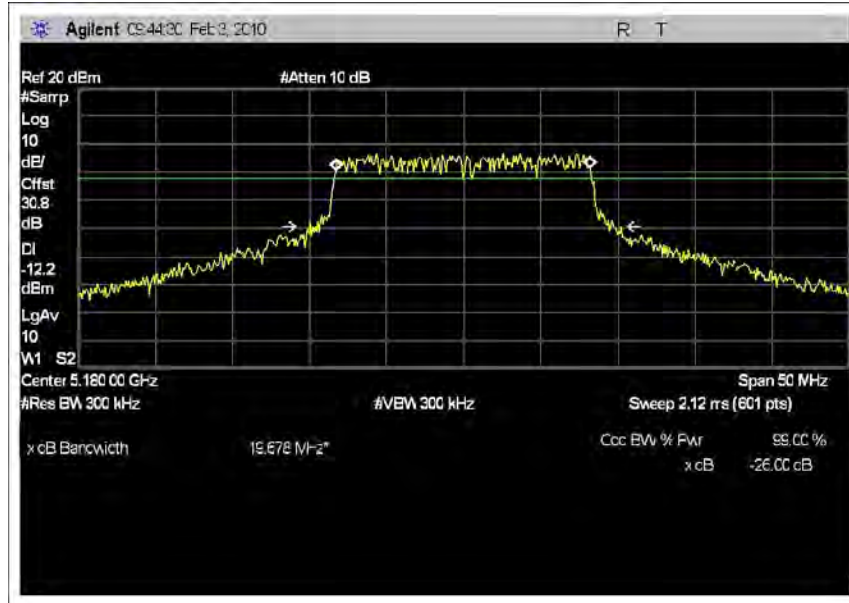
Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

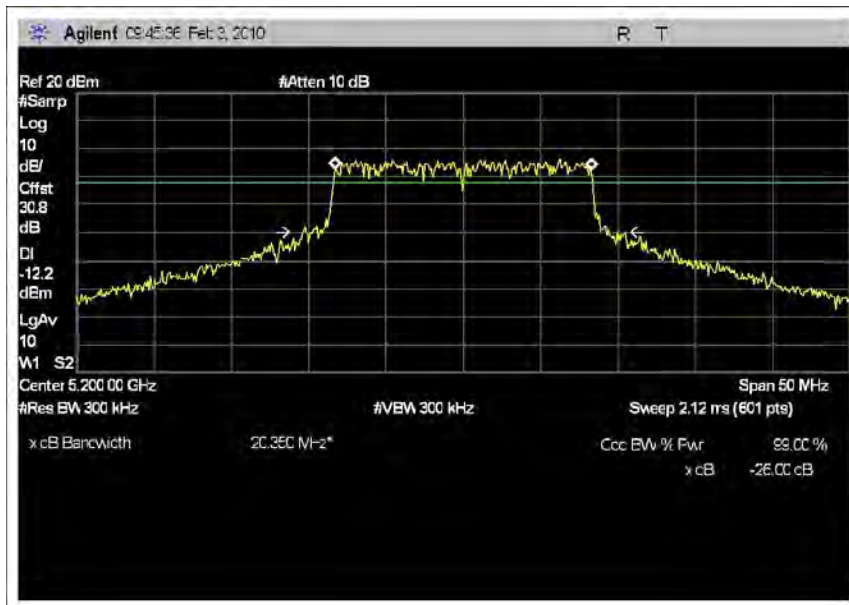
13°C, 58% Relative Humidity

### Test Plots

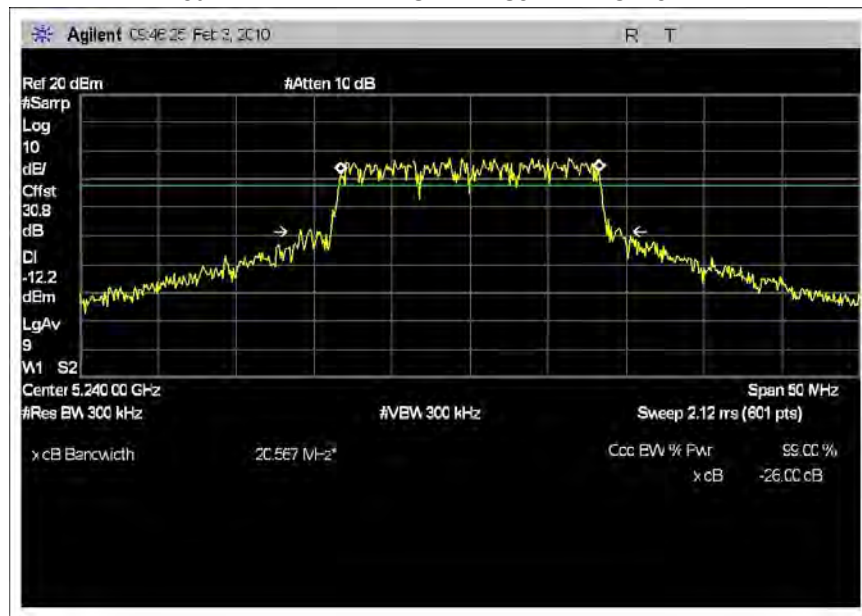
**-26dB BANDWDITH = 18.2MHz 802.11A - 5180MHz**



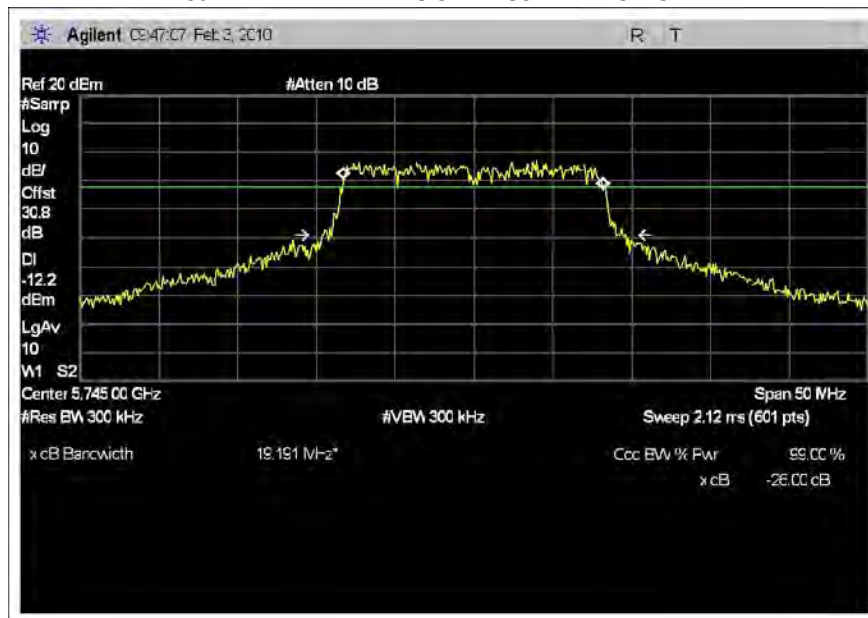
**-26dB BANDWDITH = 18.2MHz 802.11A - 5200MHz**



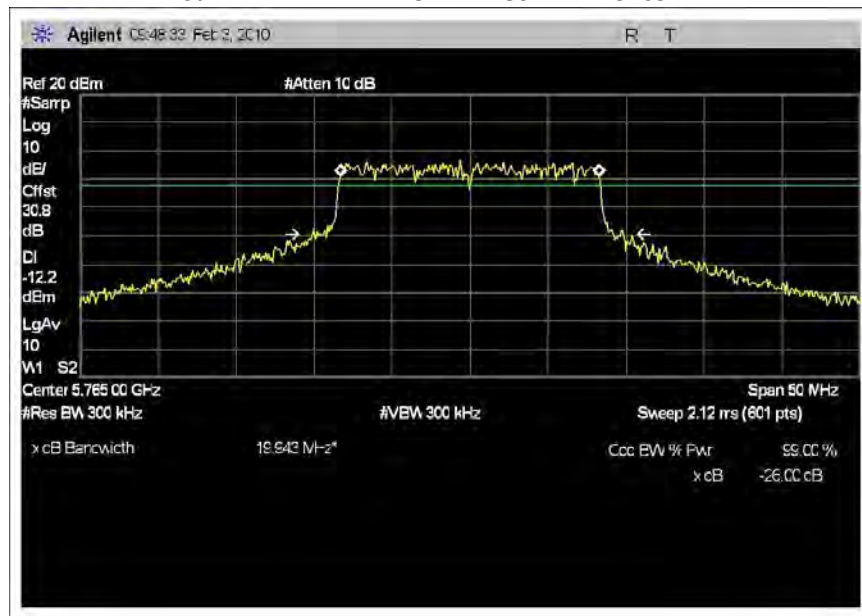
**-26dB BANDWDITH = 18.4MHz 802.11A - 5240MHz**



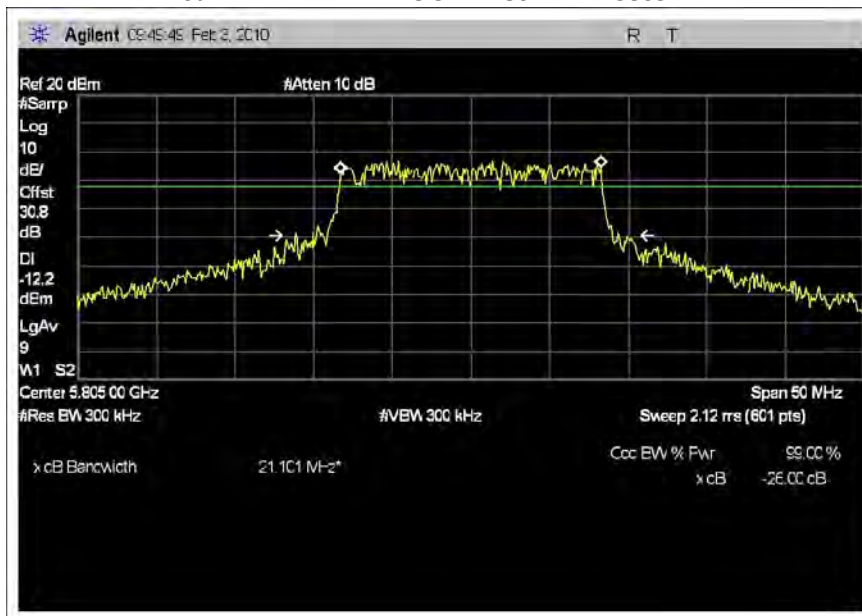
**-26dB BANDWDITH = 18.3MHz 802.11A - 5745MHz**



**-26dB BANDWIDTH = 18.2MHz 802.11A - 5765MHz**



**-26dB BANDWIDTH = 18.5MHz 802.11A - 5805MHz**



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

**RSS-210 99% BANDWIDTH**

Engineer Name: Eddie Wong

<b>Test Equipment</b>				
<b>Name</b>	<b>Serial</b>	<b>Cal Date</b>	<b>Cal Due</b>	<b>Asset</b>
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

**Setup**

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

Tx Frequency: 5180MHz, 5200MHz, 5240MHz, 5745MHz, 5765MHz, 5805MHz.

Ch 36,40,48, 149, 153, 161.

Modulation: 802.11a (54 mbps),

Ch 36,40,48, 149, 153, 161.

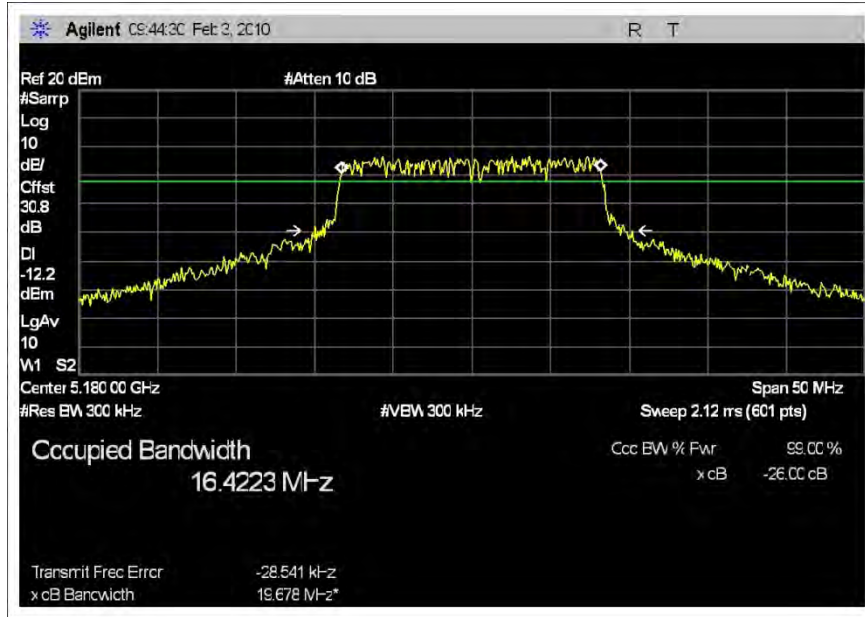
Firmware Power setting: 16, 16, 16, 15, 15, 16

Power = 13.3 dBm (0.0214W) ,13.2dBm (0.0209W), 13.3dBm (0.0214), 12.6dBm(0.0182), 12.6dBm (0.0182W), 13.0dBm(0.0200W)

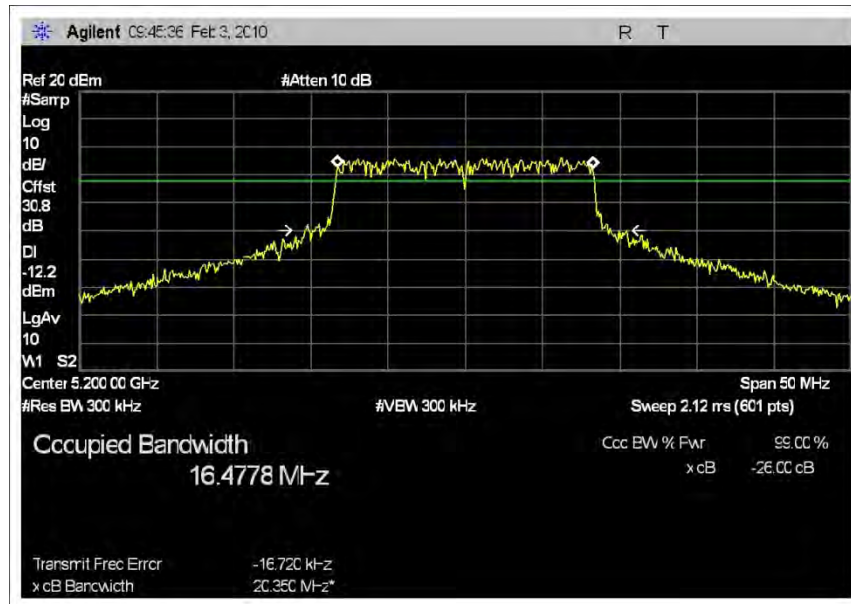
13°C, 58% Relative Humidity

**Test Data**

**RSS-210 99% BANDWIDTH = 16.4MHz 802.11a - 5180MHz**

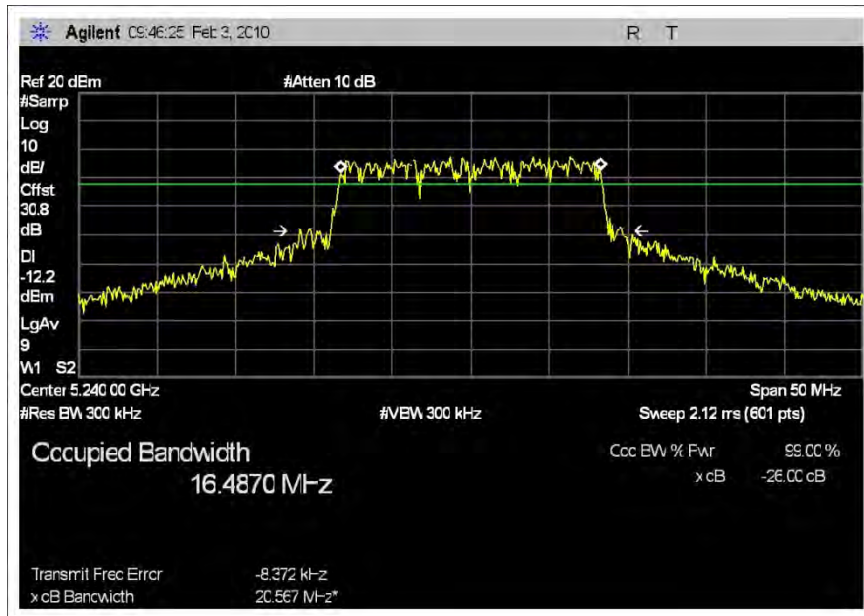


**RSS-210 99% BANDWIDTH = 16.5MHz 802.11a - 5200MHz**

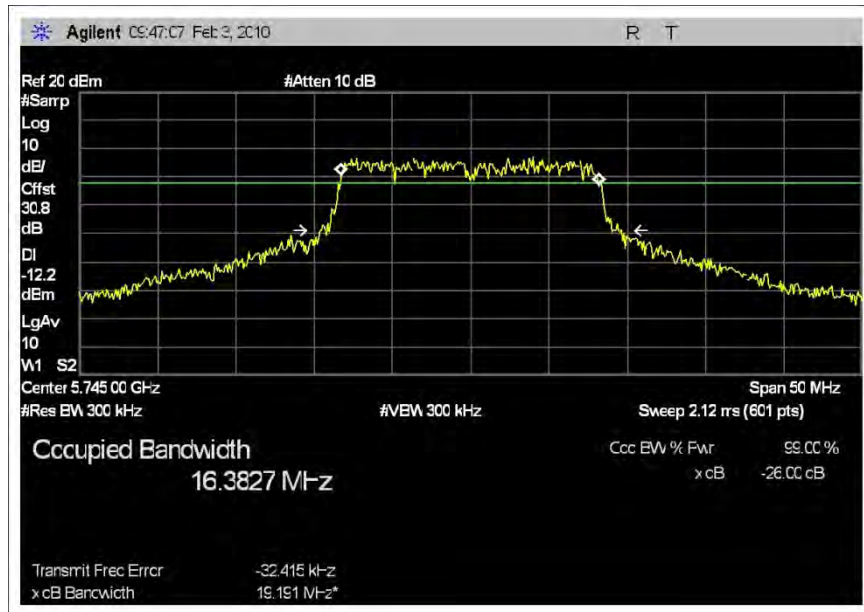




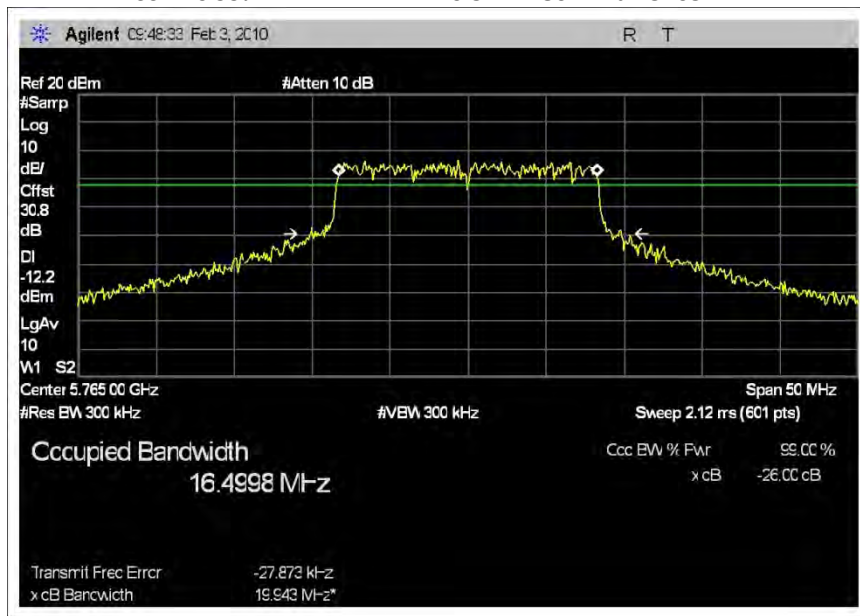
**RSS-210 99% BANDWIDTH = 16.5MHz 802.11a - 5240MHz**



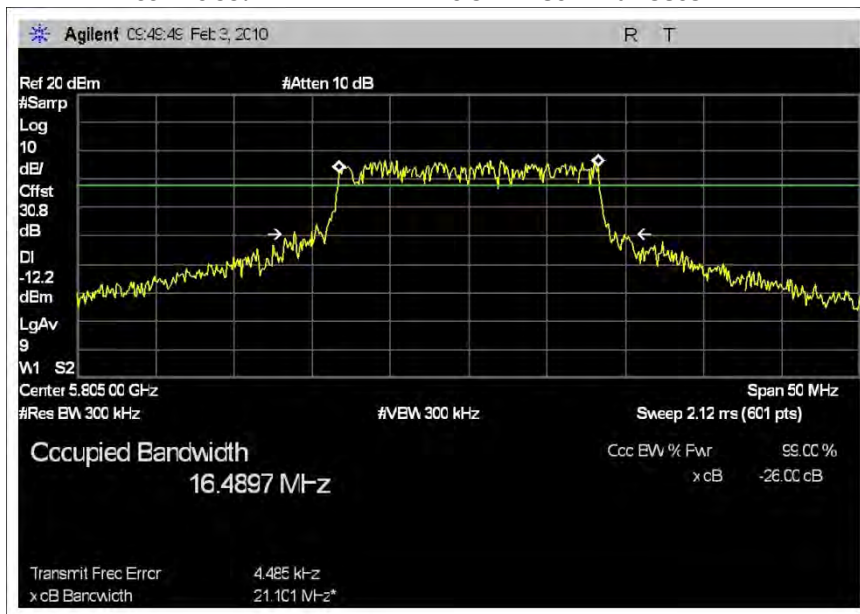
**RSS-210 99% BANDWIDTH = 16.4MHz 802.11a - 5745MHz**



**RSS-210 99% BANDWIDTH = 16.5MHz 802.11a - 5765MHz**



**RSS-210 99% BANDWIDTH = 16.5MHz 802.11a - 5805MHz**



**Test Setup Photos**



Test Setup Using Antenna Manufacture: Ethertronics

## SUPPLEMENTAL INFORMATION

### Measurement Uncertainty

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.

### Emissions Test Details

**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 dBμV/m, the spectrum analyzer reading in dBμV 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. 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.