KIC CORPORATION TEST REPORT

FOR THE

BASE STATION, KIC BASE STATION

FCC PART 15 SUBPART C SECTION 15.249/15.209 AND SUBPART B SECTIONS 15.107 & 15.109 CLASS B

TESTING

DATE OF ISSUE: JULY 11, 2007

PREPARED FOR:

KIC Corporation
15950 Bernardo Center Drive, #E
San Diego, CA 92127

W.O. No.: 86678

PREPARED BY:

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

Date of test: July 6, 2007

Report No.: FC07-054

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ADMINISTRATIVE INFORMATION

DATE OF TEST: July 6, 2007

DATE OF RECEIPT: July 6, 2007

REPRESENTATIVE: Peter Chadwick

MANUFACTURER:
KIC Corporation
15950 Bernardo Center Drive, #E
San Diego, CA 92127

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

TEST METHOD: ANSI C63.4 (2003)

PURPOSE OF TEST: To perform the testing of the BASE Station, KIC Base Station with the requirements for FCC Part 15 Subpart C Section 15.249/15.209 and Subpart B Sections 15.107 & 15.109 Class B devices.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

Joyce Walker, Quality Assurance Administrative Manager

TEST PERSONNEL:

Eddie Wong, EMC Engineer

CONDITIONS DURING TESTING

No modifications to the EUT were necessary during testing.

FCC 15.31(e) Voltage Variations
No variations were detected during testing of power output.

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Programmable Power Source	01695/ 01696	Pacific Power	345AMX / UPC32	250 / 245	051507	051509
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Bilog Antenna	01995	Chase	CBL6111C	2451	020206	020208
Pre-amp	00309	HP	8447D	1937A02548	060106	060108
Antenna cable	P05198	Belden	8268 (RG-214)	Cable#15	010507	010509
Pre-amp to SA cable	P05050	Pasternack	RG223/U	Cable#10	051607	051609

FCC 15.31(m) Number Of Channels
This device operates on a single channel.

FCC 15.33(a) Frequency Ranges Tested
15.207 Conducted Emissions: 150 kHz – 30 MHz
15.109 Radiated Emissions: 30 MHz – 10 GHz
15.249/15.209 Radiated Emissions: 9 kHz – 10 GHz

FCC SECTION 15.35: ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	10 GHz	1 MHz

FCC 15.203 Antenna Requirements
The antenna has a unique MMCX connector; therefore the EUT complies with Section 15.203 of the FCC rules.

EUT Operating Frequency
The EUT was operating at 916.571 MHz.

Temperature And Humidity During Testing
The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

EQUIPMENT UNDER TEST

Base Station

Manuf: KIC Corporation
Model: KIC Base Station
Serial: NA
FCC ID: pending

PERIPHERAL DEVICES

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

Ethernet Switch

Manuf: Linksys
Model: SD205
Serial: 003600624

Laptop

Manuf: HP
Model: Pavillion DV100
Serial: CNF5501CBW

Power Supply

Manuf: HP
Model: 5Y16544101
Serial: 557C40ALLSGISW

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

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

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

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

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in 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	(dBµV)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBµV/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

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

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

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

Peak

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

Quasi-Peak

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

Average

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

FCC 15.107 CONDUCTED EMISSIONS

Test Setup Photos

Test Data Sheets

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

Customer:	**KIC Corporation**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**86678**	Date:	7/6/2007
Test Type:	**Conducted Emissions**	Time:	15:34:29
Equipment:	**Base Station**	Sequence#:	3
Manufacturer:	KIC Corporation	Tested By:	E. Wong
Model:	KIC Base Station		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

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

Function	Manufacturer	Model #	S/N
Base Station*	KIC Corporation	KIC Base Station	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	HP	5Y16544101	557C40ALLSGISW
Ethernet switch	Linksys	SD205	003600624
Laptop	HP	Pavillion DV100	CNF5501CBW

Test Conditions / Notes:

The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity.

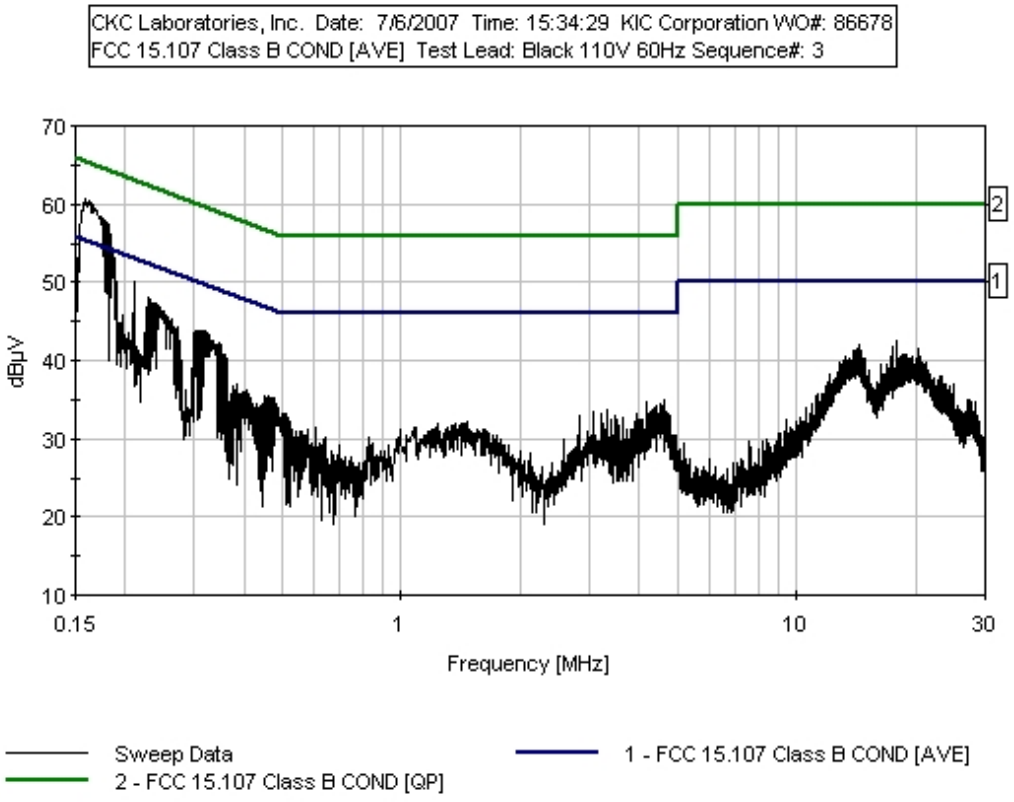
Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

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	Spec dBµV	Margin dB	Polar Ant
1	190.724k	43.7	+0.2	+6.1	+0.1	+0.1	+0.0	50.2	54.0	-3.8	Black
2	228.538k	41.5	+0.2	+6.1	+0.1	+0.1	+0.0	48.0	52.5	-4.5	Black
3	230.720k	41.4	+0.2	+6.1	+0.1	+0.1	+0.0	47.9	52.4	-4.5	Black

4	235.810k	40.9	+0.2	+6.1	+0.1	+0.1	+0.0	47.4	52.2	-4.8	Black
5	233.629k	40.9	+0.2	+6.1	+0.1	+0.1	+0.0	47.4	52.3	-4.9	Black
6	239.446k	40.7	+0.2	+6.1	+0.1	+0.1	+0.0	47.2	52.1	-4.9	Black
7	237.992k	40.7	+0.2	+6.1	+0.1	+0.1	+0.0	47.2	52.2	-5.0	Black
8	242.355k	40.5	+0.2	+6.1	+0.1	+0.1	+0.0	47.0	52.0	-5.0	Black
9	153.746k Ave	28.3	+1.8	+6.2	+0.1	+0.1	+0.0	36.5	55.8	-19.3	Black
10	159.798k Ave	28.8	+0.6	+6.2	+0.1	+0.1	+0.0	35.8	55.5	-19.7	Black
11	154.305k Ave	27.9	+1.7	+6.2	+0.1	+0.1	+0.0	36.0	55.8	-19.8	Black
12	155.234k Ave	27.8	+1.5	+6.2	+0.1	+0.1	+0.0	35.7	55.7	-20.0	Black
13	161.092k Ave	27.9	+0.6	+6.2	+0.1	+0.1	+0.0	34.9	55.4	-20.5	Black
^	160.221k	51.6	+0.6	+6.2	+0.1	+0.1	+0.0	58.6	55.5	+3.1	Black
^	157.657k	50.9	+1.1	+6.2	+0.1	+0.1	+0.0	58.4	55.6	+2.8	Black
^	161.092k	50.9	+0.6	+6.2	+0.1	+0.1	+0.0	57.9	55.4	+2.5	Black
^	159.798k	51.0	+0.6	+6.2	+0.1	+0.1	+0.0	58.0	55.5	+2.5	Black
18	160.221k Ave	27.8	+0.6	+6.2	+0.1	+0.1	+0.0	34.8	55.5	-20.7	Black
19	157.657k Ave	27.1	+1.1	+6.2	+0.1	+0.1	+0.0	34.6	55.6	-21.0	Black
^	153.746k	52.7	+1.8	+6.2	+0.1	+0.1	+0.0	60.9	55.8	+5.1	Black
^	154.305k	52.6	+1.7	+6.2	+0.1	+0.1	+0.0	60.7	55.8	+4.9	Black
^	155.234k	52.4	+1.5	+6.2	+0.1	+0.1	+0.0	60.3	55.7	+4.6	Black


CKC Laboratories, Inc. Date: 7/6/2007 Time: 15:34:29 KIC Corporation WO#: 86678
FCC 15.107 Class B COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 3
70
60
50
40
30
20
10
dBµV
0.15
1
10
30
Frequency [MHz]
2
1
Sweep Data
2 - FCC 15.107 Class B COND [QP]
1 - FCC 15.107 Class B COND [AVE]

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

Customer: **KIC Corporation**
Specification: **FCC 15.107 Class B COND [AVE]**
Work Order #: **86678** Date: 7/6/2007
Test Type: **Conducted Emissions** Time: 15:40:01
Equipment: **Base Station** Sequence#: 4
Manufacturer: KIC Corporation Tested By: E. Wong
Model: KIC Base Station 110V 60Hz
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

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

Function	Manufacturer	Model #	S/N
Base Station*	KIC Corporation	KIC Base Station	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	HP	5Y16544101	557C40ALLSGISW
Ethernet switch	Linksys	SD205	003600624
Laptop	HP	Pavillion DV100	CNF5501CBW

Test Conditions / Notes:

The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity.

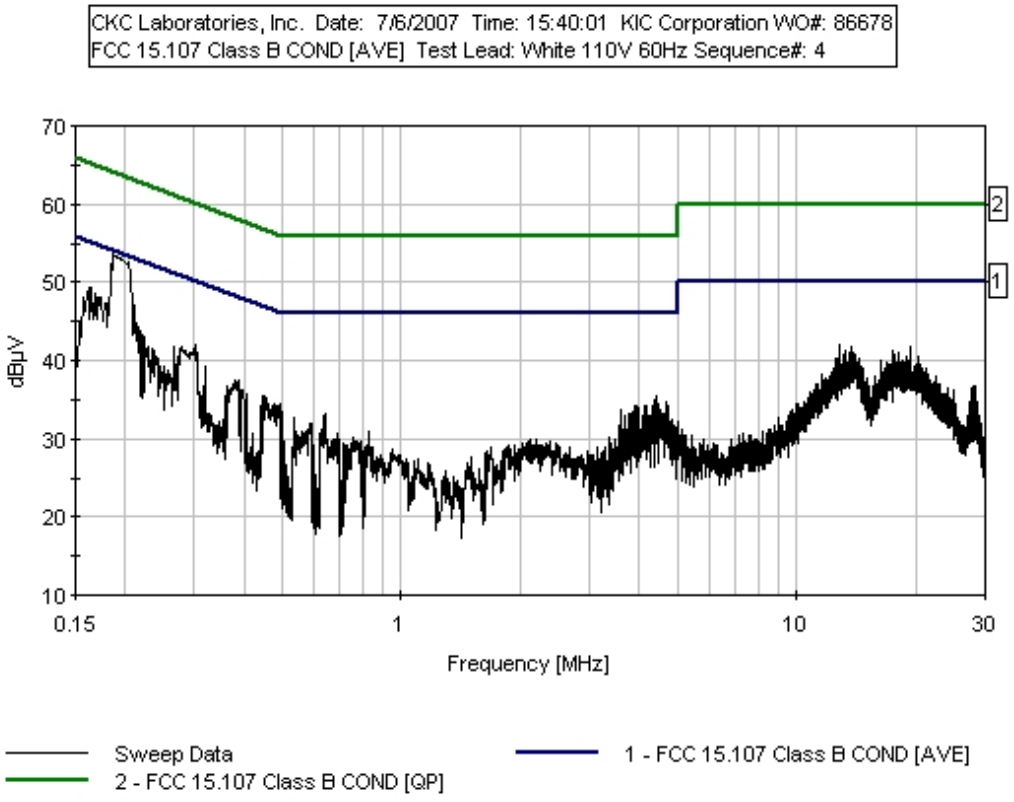
Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

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	Spec dBµV	Margin dB	Polar Ant
1	210.358k	41.6	+0.2	+6.1	+0.1	+0.2	+0.0	48.2	53.2	-5.0	White
2	12.896M	34.7	+0.2	+6.1	+0.4	+0.7	+0.0	42.1	50.0	-7.9	White
3	301.986k	35.5	+0.2	+6.2	+0.1	+0.1	+0.0	42.1	50.2	-8.1	White
4	13.779M	34.3	+0.2	+6.1	+0.4	+0.7	+0.0	41.7	50.0	-8.3	White

5	19.319M	33.7	+0.3	+6.1	+0.4	+1.2	+0.0	41.7	50.0	-8.3	White
6	13.301M	33.9	+0.2	+6.1	+0.4	+0.7	+0.0	41.3	50.0	-8.7	White
7	17.589M	33.5	+0.3	+6.1	+0.4	+1.0	+0.0	41.3	50.0	-8.7	White
8	13.328M	33.7	+0.2	+6.1	+0.4	+0.7	+0.0	41.1	50.0	-8.9	White
9	13.544M	33.7	+0.2	+6.1	+0.4	+0.7	+0.0	41.1	50.0	-8.9	White
10	13.869M	33.7	+0.2	+6.1	+0.4	+0.7	+0.0	41.1	50.0	-8.9	White
11	19.382M	33.0	+0.3	+6.1	+0.4	+1.2	+0.0	41.0	50.0	-9.0	White
12	13.688M	33.5	+0.2	+6.1	+0.4	+0.7	+0.0	40.9	50.0	-9.1	White
13	18.193M	33.0	+0.3	+6.1	+0.4	+1.1	+0.0	40.9	50.0	-9.1	White
14	17.706M	32.9	+0.3	+6.1	+0.4	+1.0	+0.0	40.7	50.0	-9.3	White
15	199.000k Ave	24.4	+0.2	+6.1	+0.1	+0.2	+0.0	31.0	53.7	-22.7	White
^	199.000k	44.6	+0.2	+6.1	+0.1	+0.2	+0.0	51.2	53.7	-2.5	White


CKC Laboratories, Inc. Date: 7/6/2007 Time: 15:40:01 KIC Corporation WO#: 86678
FCC 15.107 Class B COND [AVE] Test Lead: White 110V 60Hz Sequence#: 4
70
60
50
40
30
20
10
dBµV
0.15
1
10
30
Frequency [MHz]
2
1
Sweep Data
2 - FCC 15.107 Class B COND [QP]
1 - FCC 15.107 Class B COND [AVE]

FCC 15.109 RADIATED EMISSIONS

Test Setup Photos

Test Data Sheets

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

Customer: **KIC Corporation**
Specification: **FCC 15.109 Class B**
Work Order #: **86678** Date: 7/6/2007
Test Type: **Radiated Scan** Time: 14:27:48
Equipment: **Base Station** Sequence#: 2
Manufacturer: KIC Corporation Tested By: E. Wong
Model: KIC Base Station
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
24" SMA Cable	1-26GHz_white	01/11/2007	01/11/2009	P05205
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliax Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
1.5 GHz HPF	3643A00027	06/09/2007	06/09/2009	02116

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

Function	Manufacturer	Model #	S/N
Base Station*	KIC Corporation	KIC Base Station	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	HP	5Y16544101	557C40ALLSGISW
Ethernet switch	Linksys	SD205	003600624
Laptop	HP	Pavillion DV100	CNF5501CBW

Test Conditions / Notes:

The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity. Frequency range of measurement = 30 MHz - 10 GHz. Frequency 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliax Cable 091808 P05565
T7=Horn 00849_062908	T8=SMA-cable_W_05205-011109-26GHz

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

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	365.523M	51.7	-27.7 +0.0	+14.9 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	42.8	46.0	-3.2	Horiz
2	799.600M QP	41.2	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	42.1	46.0	-3.9	Vert
^	799.600M	47.4	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	48.3	46.0	+2.3	Vert
4	798.273M QP	40.9	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	41.8	46.0	-4.2	Horiz
^	798.273M	44.5	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	45.4	46.0	-0.6	Horiz
6	468.028M	47.2	-27.6 +0.0	+17.5 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	41.6	46.0	-4.4	Vert
7	103.243M	54.4	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	39.0	43.5	-4.5	Vert
8	41.311M	48.3	-27.8 +0.0	+13.4 +0.0	+0.1 +0.0	+1.1 +0.0	+0.0	35.1	40.0	-4.9	Vert
9	64.773M	55.2	-27.7 +0.0	+6.1 +0.0	+0.1 +0.0	+1.4 +0.0	+0.0	35.1	40.0	-4.9	Vert
10	498.833M QP	46.0	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	41.0	46.0	-5.0	Vert
^	498.833M	50.2	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	45.2	46.0	-0.8	Vert
12	65.619M	55.1	-27.7 +0.0	+6.1 +0.0	+0.0 +0.0	+1.4 +0.0	+0.0	34.9	40.0	-5.1	Vert
13	239.999M QP	53.4	-27.7 +0.0	+11.8 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	40.6	46.0	-5.4	Horiz
^	239.998M	55.0	-27.7 +0.0	+11.8 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	42.2	46.0	-3.8	Horiz
15	166.302M	53.2	-27.7 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	38.0	43.5	-5.5	Horiz
16	498.150M QP	45.5	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	40.5	46.0	-5.5	Vert
^	498.150M	50.1	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	45.1	46.0	-0.9	Vert
18	102.052M	53.3	-27.7 +0.0	+10.2 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	37.8	43.5	-5.7	Vert
19	182.223M QP	53.6	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	37.7	43.5	-5.8	Horiz
^	182.223M	58.9	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	43.0	43.5	-0.5	Horiz

21	44.311M	48.8	-27.8	+11.8	+0.1	+1.1	+0.0	34.0	40.0	-6.0	Vert
			+0.0	+0.0	+0.0	+0.0					
22	106.896M	52.4	-27.7	+10.5	+0.2	+1.9	+0.0	37.3	43.5	-6.2	Vert
			+0.0	+0.0	+0.0	+0.0					
23	188.371M	53.2	-27.6	+8.9	+0.2	+2.5	+0.0	37.2	43.5	-6.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
24	480.025M	45.2	-27.6	+17.7	+0.3	+4.1	+0.0	39.7	46.0	-6.3	Vert
			+0.0	+0.0	+0.0	+0.0					
25	520.581M	43.2	-27.5	+18.8	+0.4	+4.3	+0.0	39.2	46.0	-6.8	Vert
			+0.0	+0.0	+0.0	+0.0					
26	637.316M	40.5	-27.2	+20.3	+0.5	+4.9	+0.0	39.0	46.0	-7.0	Vert
			+0.0	+0.0	+0.0	+0.0					
27	239.073M	51.8	-27.7	+11.8	+0.3	+2.8	+0.0	39.0	46.0	-7.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
28	365.926M	47.8	-27.7	+14.9	+0.3	+3.6	+0.0	38.9	46.0	-7.1	Vert
			+0.0	+0.0	+0.0	+0.0					
29	720.020M	38.9	-27.1	+21.3	+0.5	+5.2	+0.0	38.8	46.0	-7.2	Horiz
			+0.0	+0.0	+0.0	+0.0					
30	480.065M	44.1	-27.6	+17.7	+0.3	+4.1	+0.0	38.6	46.0	-7.4	Horiz
			+0.0	+0.0	+0.0	+0.0					
31	119.988M	49.9	-27.6	+11.3	+0.3	+2.0	+0.0	35.9	43.5	-7.6	Vert
			+0.0	+0.0	+0.0	+0.0					
32	86.618M	50.3	-27.8	+8.1	+0.1	+1.7	+0.0	32.4	40.0	-7.6	Vert
			+0.0	+0.0	+0.0	+0.0					
33	830.624M	36.5	-27.1	+22.8	+0.6	+5.6	+0.0	38.4	46.0	-7.6	Horiz
	QP		+0.0	+0.0	+0.0	+0.0					
^	830.624M	41.6	-27.1	+22.8	+0.6	+5.6	+0.0	43.5	46.0	-2.5	Horiz
			+0.0	+0.0	+0.0	+0.0					
35	180.979M	51.7	-27.7	+9.0	+0.3	+2.5	+0.0	35.8	43.5	-7.7	Vert
			+0.0	+0.0	+0.0	+0.0					
36	816.023M	36.8	-27.1	+22.4	+0.6	+5.6	+0.0	38.3	46.0	-7.7	Horiz
			+0.0	+0.0	+0.0	+0.0					
37	1662.500M	56.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.3	54.0	-7.7	Vert
			-39.1	+2.7	+25.4	+1.3					
38	522.831M	42.3	-27.5	+18.8	+0.4	+4.3	+0.0	38.3	46.0	-7.7	Vert
			+0.0	+0.0	+0.0	+0.0					
39	504.054M	43.0	-27.6	+18.2	+0.3	+4.2	+0.0	38.1	46.0	-7.9	Vert
			+0.0	+0.0	+0.0	+0.0					
40	664.300M	39.2	-27.1	+20.5	+0.5	+5.0	+0.0	38.1	46.0	-7.9	Vert
			+0.0	+0.0	+0.0	+0.0					
41	104.744M	50.8	-27.7	+10.4	+0.2	+1.8	+0.0	35.5	43.5	-8.0	Vert
			+0.0	+0.0	+0.0	+0.0					
42	518.591M	42.0	-27.5	+18.7	+0.4	+4.3	+0.0	37.9	46.0	-8.1	Vert
			+0.0	+0.0	+0.0	+0.0					
43	432.308M	44.5	-27.7	+16.7	+0.4	+3.9	+0.0	37.8	46.0	-8.2	Vert
			+0.0	+0.0	+0.0	+0.0					
44	468.015M	43.4	-27.6	+17.5	+0.4	+4.1	+0.0	37.8	46.0	-8.2	Horiz
			+0.0	+0.0	+0.0	+0.0					

45	183.979M	51.1	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	35.2	43.5	-8.3	Vert
46	831.965M	35.8	-27.1 +0.0	+22.8 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	37.7	46.0	-8.3	Vert
47	602.067M	40.0	-27.4 +0.0	+19.8 +0.0	+0.5 +0.0	+4.7 +0.0	+0.0	37.6	46.0	-8.4	Vert
48	815.996M	36.0	-27.1 +0.0	+22.4 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	37.5	46.0	-8.5	Vert
49	665.050M	38.5	-27.1 +0.0	+20.5 +0.0	+0.5 +0.0	+5.0 +0.0	+0.0	37.4	46.0	-8.6	Vert
50	100.552M	50.5	-27.7 +0.0	+10.1 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	34.9	43.5	-8.6	Vert
51	111.396M	49.6	-27.7 +0.0	+10.8 +0.0	+0.2 +0.0	+1.9 +0.0	+0.0	34.8	43.5	-8.7	Vert
52	158.343M	49.6	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+2.3 +0.0	+0.0	34.7	43.5	-8.8	Horiz
53	60.517M	51.2	-27.7 +0.0	+6.2 +0.0	+0.1 +0.0	+1.3 +0.0	+0.0	31.1	40.0	-8.9	Vert
54	432.382M	43.7	-27.7 +0.0	+16.7 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	37.0	46.0	-9.0	Horiz
55	184.729M	50.4	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	34.5	43.5	-9.0	Vert
56	336.182M	46.6	-27.6 +0.0	+14.2 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	36.9	46.0	-9.1	Horiz
57	194.398M	50.2	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	34.3	43.5	-9.2	Horiz
58	633.007M	38.3	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	36.6	46.0	-9.4	Horiz
59	85.868M	48.4	-27.8 +0.0	+8.1 +0.0	+0.1 +0.0	+1.7 +0.0	+0.0	30.5	40.0	-9.5	Vert
60	163.477M	49.0	-27.7 +0.0	+10.0 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	33.9	43.5	-9.6	Horiz
61	188.479M	49.9	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	33.9	43.5	-9.6	Vert
62	560.006M	39.0	-27.4 +0.0	+19.7 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	36.3	46.0	-9.7	Vert
63	114.395M	48.2	-27.6 +0.0	+11.0 +0.0	+0.3 +0.0	+1.9 +0.0	+0.0	33.8	43.5	-9.7	Vert
64	444.023M	42.3	-27.6 +0.0	+17.0 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	36.1	46.0	-9.9	Horiz
65	189.979M	49.6	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	33.6	43.5	-9.9	Vert
66	664.507M	37.2	-27.1 +0.0	+20.5 +0.0	+0.5 +0.0	+5.0 +0.0	+0.0	36.1	46.0	-9.9	Horiz
67	119.334M	47.6	-27.6 +0.0	+11.3 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	33.6	43.5	-9.9	Vert
68	516.054M	40.2	-27.5 +0.0	+18.6 +0.0	+0.4 +0.0	+4.3 +0.0	+0.0	36.0	46.0	-10.0	Vert

69	177.229M	49.3	-27.7 +0.0	+9.2 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.5	43.5	-10.0	Vert
70	150.143M	47.7	-27.7 +0.0	+11.0 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	33.4	43.5	-10.1	Horiz
71	632.065M	37.6	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	35.9	46.0	-10.1	Vert
72	698.050M	36.8	-27.1 +0.0	+20.6 +0.0	+0.5 +0.0	+5.1 +0.0	+0.0	35.9	46.0	-10.1	Vert
73	61.994M	49.9	-27.7 +0.0	+6.2 +0.0	+0.1 +0.0	+1.3 +0.0	+0.0	29.8	40.0	-10.2	Vert
74	764.248M	34.8	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	35.8	46.0	-10.2	Horiz
75	178.729M	49.2	-27.7 +0.0	+9.1 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.3	43.5	-10.2	Vert
76	626.640M	37.4	-27.2 +0.0	+20.1 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	35.6	46.0	-10.4	Vert
77	133.105M	46.9	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.1	43.5	-10.4	Vert
78	127.698M	46.9	-27.6 +0.0	+11.5 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	33.1	43.5	-10.4	Vert
79	135.677M	46.8	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.0	43.5	-10.5	Horiz
80	131.448M	46.8	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.0	43.5	-10.5	Vert
81	174.229M	48.6	-27.7 +0.0	+9.4 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.0	43.5	-10.5	Vert
82	182.479M	48.8	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	32.9	43.5	-10.6	Vert
83	122.988M	46.7	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	32.8	43.5	-10.7	Vert
84	607.317M	37.5	-27.4 +0.0	+19.9 +0.0	+0.5 +0.0	+4.7 +0.0	+0.0	35.2	46.0	-10.8	Vert
85	176.479M	48.3	-27.7 +0.0	+9.3 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	32.6	43.5	-10.9	Vert
86	139.135M	46.7	-27.7 +0.0	+11.3 +0.0	+0.2 +0.0	+2.1 +0.0	+0.0	32.6	43.5	-10.9	Horiz
87	365.479M	43.9	-27.7 +0.0	+14.9 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	35.0	46.0	-11.0	Vert
88	492.021M	40.2	-27.6 +0.0	+17.9 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	35.0	46.0	-11.0	Vert
89	329.732M	44.8	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	34.9	46.0	-11.1	Horiz
90	218.498M	49.3	-27.6 +0.0	+10.3 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	34.9	46.0	-11.1	Horiz
91	131.727M	46.2	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	32.4	43.5	-11.1	Horiz
92	629.978M	36.5	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	34.8	46.0	-11.2	Vert

93	127.960M	46.0	-27.6 +0.0	+11.5 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	32.2	43.5	-11.3	Horiz
94	898.123M	32.3	-27.2 +0.0	+23.2 +0.0	+0.4 +0.0	+5.9 +0.0	+0.0	34.6	46.0	-11.4	Horiz
95	153.843M	46.4	-27.7 +0.0	+10.7 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	31.8	43.5	-11.7	Horiz
96	249.965M	46.3	-27.7 +0.0	+12.5 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	34.3	46.0	-11.7	Horiz
97	115.895M	46.1	-27.6 +0.0	+11.1 +0.0	+0.3 +0.0	+1.9 +0.0	+0.0	31.8	43.5	-11.7	Vert
98	384.057M	42.2	-27.7 +0.0	+15.4 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	33.9	46.0	-12.1	Vert
99	123.727M	45.0	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	31.1	43.5	-12.4	Horiz
100	199.498M	47.1	-27.6 +0.0	+8.8 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	31.1	43.5	-12.4	Horiz
101	844.740M	31.1	-27.1 +0.0	+23.2 +0.0	+0.6 +0.0	+5.7 +0.0	+0.0	33.5	46.0	-12.5	Vert
102	501.082M	38.4	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	33.4	46.0	-12.6	Vert
103	170.479M	46.2	-27.7 +0.0	+9.6 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	30.8	43.5	-12.7	Vert
104	143.577M	44.8	-27.7 +0.0	+11.2 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	30.7	43.5	-12.8	Horiz
105	359.998M	42.2	-27.6 +0.0	+14.8 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	33.2	46.0	-12.8	Horiz
106	209.898M	45.8	-27.6 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	30.6	43.5	-12.9	Horiz
107	456.023M	39.0	-27.6 +0.0	+17.2 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	33.0	46.0	-13.0	Horiz
108	697.948M	33.8	-27.1 +0.0	+20.6 +0.0	+0.5 +0.0	+5.1 +0.0	+0.0	32.9	46.0	-13.1	Horiz
109	165.979M	45.5	-27.7 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	30.3	43.5	-13.2	Vert
110	1330.000M	52.2	+0.0 -39.8	+0.0 +2.3	+0.0 +24.8	+0.0 +1.1	+0.0	40.6	54.0	-13.4	Vert
111	205.223M	45.6	-27.6 +0.0	+9.2 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	30.0	43.5	-13.5	Horiz
112	383.982M	40.6	-27.7 +0.0	+15.4 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	32.3	46.0	-13.7	Horiz
113	162.979M	44.9	-27.7 +0.0	+10.0 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	29.8	43.5	-13.7	Vert
114	512.304M	36.5	-27.5 +0.0	+18.5 +0.0	+0.4 +0.0	+4.3 +0.0	+0.0	32.2	46.0	-13.8	Vert
115	299.465M	43.2	-27.6 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	32.2	46.0	-13.8	Horiz
116	543.150M	35.1	-27.4 +0.0	+19.5 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	32.2	46.0	-13.8	Vert

117	154.729M	44.4	-27.7 +0.0	+10.6 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	29.7	43.5	-13.8	Vert
118	1662.500M	49.8	+0.0 -39.1	+0.0 +2.7	+0.0 +25.4	+0.0 +1.3	+0.0	40.1	54.0	-13.9	Horiz
119	456.028M	38.1	-27.6 +0.0	+17.2 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	32.1	46.0	-13.9	Vert
120	244.498M	44.4	-27.7 +0.0	+12.1 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	32.0	46.0	-14.0	Horiz
121	997.690M	35.6	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	40.0	54.0	-14.0	Vert
122	221.479M	46.2	-27.6 +0.0	+10.5 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	32.0	46.0	-14.0	Vert
123	159.229M	44.3	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+2.3 +0.0	+0.0	29.4	43.5	-14.1	Vert
124	213.807M	44.1	-27.6 +0.0	+9.9 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	29.3	43.5	-14.2	Horiz
125	504.065M	36.6	-27.6 +0.0	+18.2 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	31.7	46.0	-14.3	Horiz
126	465.778M	37.3	-27.6 +0.0	+17.4 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	31.6	46.0	-14.4	Vert
127	307.232M	42.3	-27.6 +0.0	+13.4 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	31.5	46.0	-14.5	Horiz
128	109.585M	43.9	-27.7 +0.0	+10.7 +0.0	+0.2 +0.0	+1.9 +0.0	+0.0	29.0	43.5	-14.5	Horiz
129	215.479M	43.4	-27.6 +0.0	+10.0 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	28.7	43.5	-14.8	Vert
130	587.006M	33.6	-27.4 +0.0	+19.8 +0.0	+0.5 +0.0	+4.6 +0.0	+0.0	31.1	46.0	-14.9	Vert
131	219.229M	45.5	-27.6 +0.0	+10.3 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	31.1	46.0	-14.9	Vert
132	372.040M	39.7	-27.7 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	31.0	46.0	-15.0	Horiz
133	766.221M	29.9	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.9	46.0	-15.1	Vert
134	119.410M	42.4	-27.6 +0.0	+11.3 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	28.4	43.5	-15.1	Horiz
135	764.721M	29.8	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.8	46.0	-15.2	Vert
136	773.147M	29.7	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.7	46.0	-15.3	Vert
137	730.221M	30.3	-27.0 +0.0	+21.6 +0.0	+0.5 +0.0	+5.2 +0.0	+0.0	30.6	46.0	-15.4	Vert
138	192.979M	44.1	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	28.1	43.5	-15.4	Vert
139	201.979M	43.7	-27.6 +0.0	+9.0 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	27.9	43.5	-15.6	Vert
140	430.058M	37.2	-27.7 +0.0	+16.6 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	30.4	46.0	-15.6	Vert

141	213.229M	42.7	-27.6	+9.9	+0.2	+2.7	+0.0	27.9	43.5	-15.6	Vert
			+0.0	+0.0	+0.0	+0.0					
142	532.581M	33.8	-27.5	+19.2	+0.4	+4.4	+0.0	30.3	46.0	-15.7	Vert
			+0.0	+0.0	+0.0	+0.0					
143	212.479M	42.5	-27.6	+9.8	+0.2	+2.7	+0.0	27.6	43.5	-15.9	Vert
			+0.0	+0.0	+0.0	+0.0					
144	477.624M	35.6	-27.6	+17.7	+0.3	+4.1	+0.0	30.1	46.0	-15.9	Vert
			+0.0	+0.0	+0.0	+0.0					
145	488.454M	35.2	-27.6	+17.9	+0.3	+4.2	+0.0	30.0	46.0	-16.0	Vert
			+0.0	+0.0	+0.0	+0.0					
146	737.248M	29.4	-27.0	+21.8	+0.5	+5.3	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
147	531.232M	33.6	-27.5	+19.1	+0.4	+4.4	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
148	546.107M	32.8	-27.4	+19.6	+0.5	+4.5	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
149	36.678M	34.8	-27.8	+15.8	+0.1	+1.0	+0.0	23.9	40.0	-16.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
150	353.923M	39.1	-27.6	+14.6	+0.3	+3.5	+0.0	29.9	46.0	-16.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
151	420.015M	37.0	-27.7	+16.3	+0.4	+3.8	+0.0	29.8	46.0	-16.2	Horiz
			+0.0	+0.0	+0.0	+0.0					
152	464.490M	35.4	-27.6	+17.4	+0.4	+4.1	+0.0	29.7	46.0	-16.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
153	374.986M	38.2	-27.7	+15.2	+0.4	+3.6	+0.0	29.7	46.0	-16.3	Vert
			+0.0	+0.0	+0.0	+0.0					
154	210.229M	42.4	-27.6	+9.6	+0.2	+2.6	+0.0	27.2	43.5	-16.3	Vert
			+0.0	+0.0	+0.0	+0.0					
155	399.757M	37.6	-27.8	+15.8	+0.4	+3.7	+0.0	29.7	46.0	-16.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
156	249.229M	41.7	-27.7	+12.4	+0.3	+2.9	+0.0	29.6	46.0	-16.4	Vert
			+0.0	+0.0	+0.0	+0.0					
157	444.028M	35.8	-27.6	+17.0	+0.4	+4.0	+0.0	29.6	46.0	-16.4	Vert
			+0.0	+0.0	+0.0	+0.0					
158	109.585M	41.9	-27.7	+10.7	+0.2	+1.9	+0.0	27.0	43.5	-16.5	Horiz
			+0.0	+0.0	+0.0	+0.0					
159	325.232M	39.4	-27.6	+13.9	+0.3	+3.4	+0.0	29.4	46.0	-16.6	Horiz
			+0.0	+0.0	+0.0	+0.0					
160	254.465M	41.1	-27.7	+12.6	+0.3	+2.9	+0.0	29.2	46.0	-16.8	Horiz
			+0.0	+0.0	+0.0	+0.0					
161	201.229M	42.5	-27.6	+8.9	+0.2	+2.6	+0.0	26.6	43.5	-16.9	Vert
			+0.0	+0.0	+0.0	+0.0					
162	227.498M	42.8	-27.6	+10.9	+0.2	+2.7	+0.0	29.0	46.0	-17.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
163	550.650M	31.7	-27.4	+19.7	+0.5	+4.5	+0.0	29.0	46.0	-17.0	Vert
			+0.0	+0.0	+0.0	+0.0					
164	203.479M	42.0	-27.6	+9.1	+0.2	+2.6	+0.0	26.3	43.5	-17.2	Vert
			+0.0	+0.0	+0.0	+0.0					

165	334.729M	38.5	-27.6 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	28.7	46.0	-17.3	Vert
166	232.729M	42.0	-27.6 +0.0	+11.3 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	28.7	46.0	-17.3	Vert
167	447.290M	34.8	-27.6 +0.0	+17.0 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	28.6	46.0	-17.4	Horiz
168	320.732M	38.8	-27.6 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	28.5	46.0	-17.5	Horiz
169	473.848M	33.8	-27.6 +0.0	+17.6 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	28.3	46.0	-17.7	Horiz
170	526.732M	31.9	-27.5 +0.0	+19.0 +0.0	+0.4 +0.0	+4.4 +0.0	+0.0	28.2	46.0	-17.8	Horiz
171	86.193M	40.0	-27.8 +0.0	+8.1 +0.0	+0.1 +0.0	+1.7 +0.0	+0.0	22.1	40.0	-17.9	Horiz
172	327.979M	37.9	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	28.0	46.0	-18.0	Vert
173	326.479M	37.6	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.6	46.0	-18.4	Vert
174	410.473M	35.0	-27.8 +0.0	+16.1 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	27.5	46.0	-18.5	Horiz
175	205.729M	40.4	-27.6 +0.0	+9.3 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.9	43.5	-18.6	Vert
176	486.204M	32.7	-27.6 +0.0	+17.8 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	27.3	46.0	-18.7	Vert
177	330.229M	37.1	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.2	46.0	-18.8	Vert
178	327.229M	37.1	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.1	46.0	-18.9	Vert
179	209.479M	39.7	-27.6 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.5	43.5	-19.0	Vert
180	460.707M	32.6	-27.6 +0.0	+17.3 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	26.7	46.0	-19.3	Horiz
181	349.682M	35.9	-27.6 +0.0	+14.5 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	26.6	46.0	-19.4	Horiz
182	225.229M	40.5	-27.6 +0.0	+10.8 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	26.6	46.0	-19.4	Vert
183	242.479M	39.2	-27.7 +0.0	+12.0 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	26.6	46.0	-19.4	Vert
184	206.479M	39.5	-27.6 +0.0	+9.3 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.0	43.5	-19.5	Vert
185	316.232M	36.9	-27.6 +0.0	+13.6 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	26.4	46.0	-19.6	Horiz
186	245.479M	38.7	-27.7 +0.0	+12.2 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	26.4	46.0	-19.6	Vert
187	425.440M	33.1	-27.7 +0.0	+16.5 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	26.2	46.0	-19.8	Horiz
188	325.729M	36.0	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	26.0	46.0	-20.0	Vert

189	487.782M	31.0	-27.6 +0.0	+17.9 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	25.8	46.0	-20.2	Horiz
190	436.882M	32.4	-27.7 +0.0	+16.8 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	25.8	46.0	-20.2	Horiz
191	987.915M	29.4	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	33.8	54.0	-20.2	Horiz
192	371.957M	34.4	-27.7 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	25.7	46.0	-20.3	Vert
193	329.479M	35.2	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	25.3	46.0	-20.7	Vert
194	963.782M	28.7	-27.1 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	33.2	54.0	-20.8	Vert
195	259.729M	37.0	-27.7 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	25.1	46.0	-20.9	Vert
196	281.465M	36.4	-27.7 +0.0	+13.0 +0.0	+0.3 +0.0	+3.1 +0.0	+0.0	25.1	46.0	-20.9	Horiz
197	987.943M	28.2	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	32.6	54.0	-21.4	Vert
198	263.465M	36.3	-27.7 +0.0	+12.7 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	24.6	46.0	-21.4	Horiz
199	311.479M	35.0	-27.6 +0.0	+13.5 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	24.4	46.0	-21.6	Vert
200	317.479M	34.5	-27.6 +0.0	+13.7 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	24.1	46.0	-21.9	Vert
201	246.229M	36.3	-27.7 +0.0	+12.2 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	24.0	46.0	-22.0	Vert
202	390.057M	31.9	-27.8 +0.0	+15.6 +0.0	+0.4 +0.0	+3.7 +0.0	+0.0	23.8	46.0	-22.2	Vert
203	422.307M	30.7	-27.7 +0.0	+16.4 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	23.6	46.0	-22.4	Vert
204	264.979M	35.3	-27.7 +0.0	+12.7 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	23.6	46.0	-22.4	Vert
205	484.565M	28.8	-27.6 +0.0	+17.8 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	23.4	46.0	-22.6	Horiz
206	339.229M	33.0	-27.6 +0.0	+14.2 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	23.3	46.0	-22.7	Vert
207	347.479M	32.7	-27.6 +0.0	+14.4 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	23.3	46.0	-22.7	Vert
208	309.979M	33.8	-27.6 +0.0	+13.5 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	23.2	46.0	-22.8	Vert
209	344.479M	32.6	-27.6 +0.0	+14.4 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	23.2	46.0	-22.8	Vert
210	965.623M	26.5	-27.1 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	31.0	54.0	-23.0	Horiz
211	279.979M	34.5	-27.7 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	23.0	46.0	-23.0	Vert
212	303.229M	33.9	-27.6 +0.0	+13.3 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	23.0	46.0	-23.0	Vert

213	380.985M	30.9	-27.7 +0.0	+15.3 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	22.5	46.0	-23.5	Vert
214	257.479M	34.2	-27.7 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	22.3	46.0	-23.7	Vert
215	241.729M	35.0	-27.7 +0.0	+11.9 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	22.3	46.0	-23.7	Vert
216	296.479M	33.1	-27.6 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	22.1	46.0	-23.9	Vert
217	273.979M	32.6	-27.7 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	21.1	46.0	-24.9	Vert

FCC 15.249/15.209 RADIATED EMISSIONS

Test Setup Photos

Test Data Sheets

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

Customer: **KIC Corporation**
Specification: **FCC 15.249(a) / (b) Field strength of Fundamental/ Field strength of Harmonics**
Work Order #: **86678** Date: 7/6/2007
Test Type: **Radiated Scan** Time: 14:39:41
Equipment: **Base Station** Sequence#: 1
Manufacturer: KIC Corporation Tested By: E. Wong
Model: KIC Base Station
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
24" SMA Cable	1-26GHz_white	01/11/2007	01/11/2009	P05205
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliax Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
Loop Antenna	2014	06/14/2006	06/14/2008	00314
1.5 GHz HPF	3643A00027	06/09/2007	06/09/2009	02116

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

Function	Manufacturer	Model #	S/N
Base Station*	KIC Corporation	KIC Base Station	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	HP	5Y16544101	557C40ALLSGISW
Ethernet switch	Linksys	SD205	003600624
Laptop	HP	Pavillion DV100	CNF5501CBW

Test Conditions / Notes:

The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity. Frequency range of measurement = 9 kHz - 10 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 - 10,000 MHz RBW=1 MHz, VBW=1 MHz. *Noise floor level recorded after second harmonics.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliax Cable 091808 P05565
T7=Horn 00849_062908	T8=SMA-cable_W_05205-011109-26GHz
T9=1.5GHz HPF 02116	

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

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	916.571M QP	84.4	-27.2 +0.0 +0.0	+23.7 +0.0	+0.5 +0.0	+6.0 +0.0	+0.0	87.4	93.9 Fundamental	-6.5	Vert
^	916.571M	86.0	-27.2 +0.0 +0.0	+23.7 +0.0	+0.5 +0.0	+6.0 +0.0	+0.0	89.0	93.9	-4.9	Vert
3	8248.280M	36.8	+0.0 -37.1 +0.2	+0.0 +7.1	+0.0 +37.1	+0.0 +2.8	+0.0	46.9	54.0	-7.1	Horiz
4	7331.780M	37.7	+0.0 -37.2 +0.3	+0.0 +6.8	+0.0 +36.0	+0.0 +2.5	+0.0	46.1	54.0	-7.9	Vert
5	8248.280M	35.8	+0.0 -37.1 +0.2	+0.0 +7.1	+0.0 +37.1	+0.0 +2.8	+0.0	45.9	54.0	-8.1	Vert
6	5498.780M	38.9	+0.0 -37.3 +1.3	+0.0 +6.0	+0.0 +34.2	+0.0 +2.3	+0.0	45.4	54.0	-8.6	Horiz
7	6415.280M	39.2	+0.0 -37.5 +0.5	+0.0 +6.3	+0.0 +34.2	+0.0 +2.5	+0.0	45.2	54.0	-8.8	Horiz
8	7331.780M	36.7	+0.0 -37.2 +0.3	+0.0 +6.8	+0.0 +36.0	+0.0 +2.5	+0.0	45.1	54.0	-8.9	Horiz
9	916.571M QP	81.7	-27.2 +0.0 +0.0	+23.7 +0.0	+0.5 +0.0	+6.0 +0.0	+0.0	84.7	93.9 Fundamental	-9.2	Horiz
^	916.571M	83.2	-27.2 +0.0 +0.0	+23.7 +0.0	+0.5 +0.0	+6.0 +0.0	+0.0	86.2	93.9	-7.7	Horiz
11	5498.780M	38.1	+0.0 -37.3 +1.3	+0.0 +6.0	+0.0 +34.2	+0.0 +2.3	+0.0	44.6	54.0	-9.4	Vert
12	6415.280M	37.1	+0.0 -37.5 +0.5	+0.0 +6.3	+0.0 +34.2	+0.0 +2.5	+0.0	43.1	54.0	-10.9	Vert

13	4582.280M	40.3	+0.0 -37.7 +0.7	+0.0 +5.1	+0.0 +32.6	+0.0 +2.0	+0.0	43.0	54.0	-11.0	Vert
14	3665.780M	41.0	+0.0 -38.1 +0.5	+0.0 +4.6	+0.0 +31.9	+0.0 +2.1	+0.0	42.0	54.0	-12.0	Horiz
15	4582.280M	38.9	+0.0 -37.7 +0.7	+0.0 +5.1	+0.0 +32.6	+0.0 +2.0	+0.0	41.6	54.0	-12.4	Horiz
16	2749.380M	42.1	+0.0 -38.5 +0.5	+0.0 +3.8	+0.0 +29.6	+0.0 +1.7	+0.0	39.2	54.0	-14.8	Horiz
17	3665.780M	38.0	+0.0 -38.1 +0.5	+0.0 +4.6	+0.0 +31.9	+0.0 +2.1	+0.0	39.0	54.0	-15.0	Vert
18	1831.800M	43.3	+0.0 -38.9 +0.7	+0.0 +2.8	+0.0 +25.9	+0.0 +1.4	+0.0	35.2	54.0	-18.8	Horiz
19	2749.280M	37.6	+0.0 -38.5 +0.5	+0.0 +3.8	+0.0 +29.6	+0.0 +1.7	+0.0	34.7	54.0	-19.3	Vert
20	1832.780M	40.3	+0.0 -38.9 +0.7	+0.0 +2.8	+0.0 +25.9	+0.0 +1.4	+0.0	32.2	54.0	-21.8	Vert

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

Customer: **KIC Corporation**
Specification: **FCC 15.249(d) / 15.209**
Work Order #: **86678** Date: 7/6/2007
Test Type: **Radiated Scan** Time: 14:27:48
Equipment: **Base Station** Sequence#: 2
Manufacturer: KIC Corporation Tested By: E. Wong
Model: KIC Base Station
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
24" SMA Cable	1-26GHz_white	01/11/2007	01/11/2009	P05205
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliax Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
Loop Antenna	2014	06/14/2006	06/14/2008	00314
1.5 GHz HPF	3643A00027	06/09/2007	06/09/2009	02116

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

Function	Manufacturer	Model #	S/N
Base Station*	KIC Corporation	KIC Base Station	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	HP	5Y16544101	557C40ALLSGISW
Ethernet switch	Linksys	SD205	003600624
Laptop	HP	Pavillion DV100	CNF5501CBW

Test Conditions / Notes:

The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity. Frequency range of measurement = 9 kHz- 10 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 - 10,000 MHz RBW=1 MHz, VBW=1 MHz.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliax Cable 091808 P05565
T7=Horn 00849_062908	T8=SMA-cable_W_05205-011109-26GHz

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

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	365.523M	51.7	-27.7 +0.0	+14.9 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	42.8	46.0	-3.2	Horiz
2	799.600M QP	41.2	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	42.1	46.0	-3.9	Vert
^	799.600M	47.4	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	48.3	46.0	+2.3	Vert
4	798.273M QP	40.9	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	41.8	46.0	-4.2	Horiz
^	798.273M	44.5	-27.1 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	45.4	46.0	-0.6	Horiz
6	468.028M	47.2	-27.6 +0.0	+17.5 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	41.6	46.0	-4.4	Vert
7	103.243M	54.4	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	39.0	43.5	-4.5	Vert
8	64.773M	55.2	-27.7 +0.0	+6.1 +0.0	+0.1 +0.0	+1.4 +0.0	+0.0	35.1	40.0	-4.9	Vert
9	41.311M	48.3	-27.8 +0.0	+13.4 +0.0	+0.1 +0.0	+1.1 +0.0	+0.0	35.1	40.0	-4.9	Vert
10	498.833M QP	46.0	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	41.0	46.0	-5.0	Vert
^	498.833M	50.2	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	45.2	46.0	-0.8	Vert
12	65.619M	55.1	-27.7 +0.0	+6.1 +0.0	+0.0 +0.0	+1.4 +0.0	+0.0	34.9	40.0	-5.1	Vert
13	239.999M QP	53.4	-27.7 +0.0	+11.8 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	40.6	46.0	-5.4	Horiz
^	239.998M	55.0	-27.7 +0.0	+11.8 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	42.2	46.0	-3.8	Horiz
15	166.302M	53.2	-27.7 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	38.0	43.5	-5.5	Horiz
16	498.150M QP	45.5	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	40.5	46.0	-5.5	Vert
^	498.150M	50.1	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	45.1	46.0	-0.9	Vert
18	102.052M	53.3	-27.7 +0.0	+10.2 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	37.8	43.5	-5.7	Vert
19	182.223M QP	53.6	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	37.7	43.5	-5.8	Horiz
^	182.223M	58.9	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	43.0	43.5	-0.5	Horiz

21	44.311M	48.8	-27.8	+11.8	+0.1	+1.1	+0.0	34.0	40.0	-6.0	Vert
			+0.0	+0.0	+0.0	+0.0					
22	106.896M	52.4	-27.7	+10.5	+0.2	+1.9	+0.0	37.3	43.5	-6.2	Vert
			+0.0	+0.0	+0.0	+0.0					
23	188.371M	53.2	-27.6	+8.9	+0.2	+2.5	+0.0	37.2	43.5	-6.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
24	480.025M	45.2	-27.6	+17.7	+0.3	+4.1	+0.0	39.7	46.0	-6.3	Vert
			+0.0	+0.0	+0.0	+0.0					
25	520.581M	43.2	-27.5	+18.8	+0.4	+4.3	+0.0	39.2	46.0	-6.8	Vert
			+0.0	+0.0	+0.0	+0.0					
26	239.073M	51.8	-27.7	+11.8	+0.3	+2.8	+0.0	39.0	46.0	-7.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
27	637.316M	40.5	-27.2	+20.3	+0.5	+4.9	+0.0	39.0	46.0	-7.0	Vert
			+0.0	+0.0	+0.0	+0.0					
28	365.926M	47.8	-27.7	+14.9	+0.3	+3.6	+0.0	38.9	46.0	-7.1	Vert
			+0.0	+0.0	+0.0	+0.0					
29	720.020M	38.9	-27.1	+21.3	+0.5	+5.2	+0.0	38.8	46.0	-7.2	Horiz
			+0.0	+0.0	+0.0	+0.0					
30	480.065M	44.1	-27.6	+17.7	+0.3	+4.1	+0.0	38.6	46.0	-7.4	Horiz
			+0.0	+0.0	+0.0	+0.0					
31	830.624M	36.5	-27.1	+22.8	+0.6	+5.6	+0.0	38.4	46.0	-7.6	Horiz
	QP		+0.0	+0.0	+0.0	+0.0					
^	830.624M	41.6	-27.1	+22.8	+0.6	+5.6	+0.0	43.5	46.0	-2.5	Horiz
			+0.0	+0.0	+0.0	+0.0					
33	119.988M	49.9	-27.6	+11.3	+0.3	+2.0	+0.0	35.9	43.5	-7.6	Vert
			+0.0	+0.0	+0.0	+0.0					
34	86.618M	50.3	-27.8	+8.1	+0.1	+1.7	+0.0	32.4	40.0	-7.6	Vert
			+0.0	+0.0	+0.0	+0.0					
35	1662.500M	56.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.3	54.0	-7.7	Vert
			-39.1	+2.7	+25.4	+1.3					
36	816.023M	36.8	-27.1	+22.4	+0.6	+5.6	+0.0	38.3	46.0	-7.7	Horiz
			+0.0	+0.0	+0.0	+0.0					
37	522.831M	42.3	-27.5	+18.8	+0.4	+4.3	+0.0	38.3	46.0	-7.7	Vert
			+0.0	+0.0	+0.0	+0.0					
38	180.979M	51.7	-27.7	+9.0	+0.3	+2.5	+0.0	35.8	43.5	-7.7	Vert
			+0.0	+0.0	+0.0	+0.0					
39	664.300M	39.2	-27.1	+20.5	+0.5	+5.0	+0.0	38.1	46.0	-7.9	Vert
			+0.0	+0.0	+0.0	+0.0					
40	504.054M	43.0	-27.6	+18.2	+0.3	+4.2	+0.0	38.1	46.0	-7.9	Vert
			+0.0	+0.0	+0.0	+0.0					
41	104.744M	50.8	-27.7	+10.4	+0.2	+1.8	+0.0	35.5	43.5	-8.0	Vert
			+0.0	+0.0	+0.0	+0.0					
42	518.591M	42.0	-27.5	+18.7	+0.4	+4.3	+0.0	37.9	46.0	-8.1	Vert
			+0.0	+0.0	+0.0	+0.0					
43	468.015M	43.4	-27.6	+17.5	+0.4	+4.1	+0.0	37.8	46.0	-8.2	Horiz
			+0.0	+0.0	+0.0	+0.0					
44	432.308M	44.5	-27.7	+16.7	+0.4	+3.9	+0.0	37.8	46.0	-8.2	Vert
			+0.0	+0.0	+0.0	+0.0					

45	831.965M	35.8	-27.1 +0.0	+22.8 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	37.7	46.0	-8.3	Vert
46	183.979M	51.1	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	35.2	43.5	-8.3	Vert
47	602.067M	40.0	-27.4 +0.0	+19.8 +0.0	+0.5 +0.0	+4.7 +0.0	+0.0	37.6	46.0	-8.4	Vert
48	815.996M	36.0	-27.1 +0.0	+22.4 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	37.5	46.0	-8.5	Vert
49	665.050M	38.5	-27.1 +0.0	+20.5 +0.0	+0.5 +0.0	+5.0 +0.0	+0.0	37.4	46.0	-8.6	Vert
50	100.552M	50.5	-27.7 +0.0	+10.1 +0.0	+0.2 +0.0	+1.8 +0.0	+0.0	34.9	43.5	-8.6	Vert
51	111.396M	49.6	-27.7 +0.0	+10.8 +0.0	+0.2 +0.0	+1.9 +0.0	+0.0	34.8	43.5	-8.7	Vert
52	158.343M	49.6	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+2.3 +0.0	+0.0	34.7	43.5	-8.8	Horiz
53	60.517M	51.2	-27.7 +0.0	+6.2 +0.0	+0.1 +0.0	+1.3 +0.0	+0.0	31.1	40.0	-8.9	Vert
54	432.382M	43.7	-27.7 +0.0	+16.7 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	37.0	46.0	-9.0	Horiz
55	184.729M	50.4	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	34.5	43.5	-9.0	Vert
56	336.182M	46.6	-27.6 +0.0	+14.2 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	36.9	46.0	-9.1	Horiz
57	194.398M	50.2	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	34.3	43.5	-9.2	Horiz
58	633.007M	38.3	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	36.6	46.0	-9.4	Horiz
59	85.868M	48.4	-27.8 +0.0	+8.1 +0.0	+0.1 +0.0	+1.7 +0.0	+0.0	30.5	40.0	-9.5	Vert
60	163.477M	49.0	-27.7 +0.0	+10.0 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	33.9	43.5	-9.6	Horiz
61	188.479M	49.9	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	33.9	43.5	-9.6	Vert
62	560.006M	39.0	-27.4 +0.0	+19.7 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	36.3	46.0	-9.7	Vert
63	114.395M	48.2	-27.6 +0.0	+11.0 +0.0	+0.3 +0.0	+1.9 +0.0	+0.0	33.8	43.5	-9.7	Vert
64	664.507M	37.2	-27.1 +0.0	+20.5 +0.0	+0.5 +0.0	+5.0 +0.0	+0.0	36.1	46.0	-9.9	Horiz
65	444.023M	42.3	-27.6 +0.0	+17.0 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	36.1	46.0	-9.9	Horiz
66	189.979M	49.6	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	33.6	43.5	-9.9	Vert
67	119.334M	47.6	-27.6 +0.0	+11.3 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	33.6	43.5	-9.9	Vert
68	516.054M	40.2	-27.5 +0.0	+18.6 +0.0	+0.4 +0.0	+4.3 +0.0	+0.0	36.0	46.0	-10.0	Vert

69	177.229M	49.3	-27.7 +0.0	+9.2 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.5	43.5	-10.0	Vert
70	150.143M	47.7	-27.7 +0.0	+11.0 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	33.4	43.5	-10.1	Horiz
71	698.050M	36.8	-27.1 +0.0	+20.6 +0.0	+0.5 +0.0	+5.1 +0.0	+0.0	35.9	46.0	-10.1	Vert
72	632.065M	37.6	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	35.9	46.0	-10.1	Vert
73	764.248M	34.8	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	35.8	46.0	-10.2	Horiz
74	178.729M	49.2	-27.7 +0.0	+9.1 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.3	43.5	-10.2	Vert
75	61.994M	49.9	-27.7 +0.0	+6.2 +0.0	+0.1 +0.0	+1.3 +0.0	+0.0	29.8	40.0	-10.2	Vert
76	626.640M	37.4	-27.2 +0.0	+20.1 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	35.6	46.0	-10.4	Vert
77	133.105M	46.9	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.1	43.5	-10.4	Vert
78	127.698M	46.9	-27.6 +0.0	+11.5 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	33.1	43.5	-10.4	Vert
79	135.677M	46.8	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.0	43.5	-10.5	Horiz
80	174.229M	48.6	-27.7 +0.0	+9.4 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	33.0	43.5	-10.5	Vert
81	131.448M	46.8	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	33.0	43.5	-10.5	Vert
82	182.479M	48.8	-27.7 +0.0	+9.0 +0.0	+0.3 +0.0	+2.5 +0.0	+0.0	32.9	43.5	-10.6	Vert
83	122.988M	46.7	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	32.8	43.5	-10.7	Vert
84	607.317M	37.5	-27.4 +0.0	+19.9 +0.0	+0.5 +0.0	+4.7 +0.0	+0.0	35.2	46.0	-10.8	Vert
85	139.135M	46.7	-27.7 +0.0	+11.3 +0.0	+0.2 +0.0	+2.1 +0.0	+0.0	32.6	43.5	-10.9	Horiz
86	176.479M	48.3	-27.7 +0.0	+9.3 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	32.6	43.5	-10.9	Vert
87	492.021M	40.2	-27.6 +0.0	+17.9 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	35.0	46.0	-11.0	Vert
88	365.479M	43.9	-27.7 +0.0	+14.9 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	35.0	46.0	-11.0	Vert
89	329.732M	44.8	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	34.9	46.0	-11.1	Horiz
90	218.498M	49.3	-27.6 +0.0	+10.3 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	34.9	46.0	-11.1	Horiz
91	131.727M	46.2	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.1 +0.0	+0.0	32.4	43.5	-11.1	Horiz
92	629.978M	36.5	-27.2 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	34.8	46.0	-11.2	Vert

93	127.960M	46.0	-27.6 +0.0	+11.5 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	32.2	43.5	-11.3	Horiz
94	898.123M	32.3	-27.2 +0.0	+23.2 +0.0	+0.4 +0.0	+5.9 +0.0	+0.0	34.6	46.0	-11.4	Horiz
95	249.965M	46.3	-27.7 +0.0	+12.5 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	34.3	46.0	-11.7	Horiz
96	153.843M	46.4	-27.7 +0.0	+10.7 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	31.8	43.5	-11.7	Horiz
97	115.895M	46.1	-27.6 +0.0	+11.1 +0.0	+0.3 +0.0	+1.9 +0.0	+0.0	31.8	43.5	-11.7	Vert
98	384.057M	42.2	-27.7 +0.0	+15.4 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	33.9	46.0	-12.1	Vert
99	199.498M	47.1	-27.6 +0.0	+8.8 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	31.1	43.5	-12.4	Horiz
100	123.727M	45.0	-27.6 +0.0	+11.4 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	31.1	43.5	-12.4	Horiz
101	844.740M	31.1	-27.1 +0.0	+23.2 +0.0	+0.6 +0.0	+5.7 +0.0	+0.0	33.5	46.0	-12.5	Vert
102	501.082M	38.4	-27.6 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	33.4	46.0	-12.6	Vert
103	170.479M	46.2	-27.7 +0.0	+9.6 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	30.8	43.5	-12.7	Vert
104	359.998M	42.2	-27.6 +0.0	+14.8 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	33.2	46.0	-12.8	Horiz
105	143.577M	44.8	-27.7 +0.0	+11.2 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	30.7	43.5	-12.8	Horiz
106	209.898M	45.8	-27.6 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	30.6	43.5	-12.9	Horiz
107	456.023M	39.0	-27.6 +0.0	+17.2 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	33.0	46.0	-13.0	Horiz
108	697.948M	33.8	-27.1 +0.0	+20.6 +0.0	+0.5 +0.0	+5.1 +0.0	+0.0	32.9	46.0	-13.1	Horiz
109	165.979M	45.5	-27.7 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	30.3	43.5	-13.2	Vert
110	1330.000M	52.2	+0.0 -39.8	+0.0 +2.3	+0.0 +24.8	+0.0 +1.1	+0.0	40.6	54.0	-13.4	Vert
111	205.223M	45.6	-27.6 +0.0	+9.2 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	30.0	43.5	-13.5	Horiz
112	383.982M	40.6	-27.7 +0.0	+15.4 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	32.3	46.0	-13.7	Horiz
113	162.979M	44.9	-27.7 +0.0	+10.0 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	29.8	43.5	-13.7	Vert
114	299.465M	43.2	-27.6 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	32.2	46.0	-13.8	Horiz
115	543.150M	35.1	-27.4 +0.0	+19.5 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	32.2	46.0	-13.8	Vert
116	512.304M	36.5	-27.5 +0.0	+18.5 +0.0	+0.4 +0.0	+4.3 +0.0	+0.0	32.2	46.0	-13.8	Vert

117	154.729M	44.4	-27.7 +0.0	+10.6 +0.0	+0.2 +0.0	+2.2 +0.0	+0.0	29.7	43.5	-13.8	Vert
118	1662.500M	49.8	+0.0 -39.1	+0.0 +2.7	+0.0 +25.4	+0.0 +1.3	+0.0	40.1	54.0	-13.9	Horiz
119	456.028M	38.1	-27.6 +0.0	+17.2 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	32.1	46.0	-13.9	Vert
120	244.498M	44.4	-27.7 +0.0	+12.1 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	32.0	46.0	-14.0	Horiz
121	997.690M	35.6	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	40.0	54.0	-14.0	Vert
122	221.479M	46.2	-27.6 +0.0	+10.5 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	32.0	46.0	-14.0	Vert
123	159.229M	44.3	-27.7 +0.0	+10.3 +0.0	+0.2 +0.0	+2.3 +0.0	+0.0	29.4	43.5	-14.1	Vert
124	213.807M	44.1	-27.6 +0.0	+9.9 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	29.3	43.5	-14.2	Horiz
125	504.065M	36.6	-27.6 +0.0	+18.2 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	31.7	46.0	-14.3	Horiz
126	465.778M	37.3	-27.6 +0.0	+17.4 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	31.6	46.0	-14.4	Vert
127	307.232M	42.3	-27.6 +0.0	+13.4 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	31.5	46.0	-14.5	Horiz
128	109.585M	43.9	-27.7 +0.0	+10.7 +0.0	+0.2 +0.0	+1.9 +0.0	+0.0	29.0	43.5	-14.5	Horiz
129	215.479M	43.4	-27.6 +0.0	+10.0 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	28.7	43.5	-14.8	Vert
130	587.006M	33.6	-27.4 +0.0	+19.8 +0.0	+0.5 +0.0	+4.6 +0.0	+0.0	31.1	46.0	-14.9	Vert
131	219.229M	45.5	-27.6 +0.0	+10.3 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	31.1	46.0	-14.9	Vert
132	372.040M	39.7	-27.7 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	31.0	46.0	-15.0	Horiz
133	119.410M	42.4	-27.6 +0.0	+11.3 +0.0	+0.3 +0.0	+2.0 +0.0	+0.0	28.4	43.5	-15.1	Horiz
134	766.221M	29.9	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.9	46.0	-15.1	Vert
135	764.721M	29.8	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.8	46.0	-15.2	Vert
136	773.147M	29.7	-27.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	30.7	46.0	-15.3	Vert
137	730.221M	30.3	-27.0 +0.0	+21.6 +0.0	+0.5 +0.0	+5.2 +0.0	+0.0	30.6	46.0	-15.4	Vert
138	192.979M	44.1	-27.6 +0.0	+8.9 +0.0	+0.2 +0.0	+2.5 +0.0	+0.0	28.1	43.5	-15.4	Vert
139	430.058M	37.2	-27.7 +0.0	+16.6 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	30.4	46.0	-15.6	Vert
140	213.229M	42.7	-27.6 +0.0	+9.9 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	27.9	43.5	-15.6	Vert

141	201.979M	43.7	-27.6	+9.0	+0.2	+2.6	+0.0	27.9	43.5	-15.6	Vert
			+0.0	+0.0	+0.0	+0.0					
142	532.581M	33.8	-27.5	+19.2	+0.4	+4.4	+0.0	30.3	46.0	-15.7	Vert
			+0.0	+0.0	+0.0	+0.0					
143	477.624M	35.6	-27.6	+17.7	+0.3	+4.1	+0.0	30.1	46.0	-15.9	Vert
			+0.0	+0.0	+0.0	+0.0					
144	212.479M	42.5	-27.6	+9.8	+0.2	+2.7	+0.0	27.6	43.5	-15.9	Vert
			+0.0	+0.0	+0.0	+0.0					
145	737.248M	29.4	-27.0	+21.8	+0.5	+5.3	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
146	546.107M	32.8	-27.4	+19.6	+0.5	+4.5	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
147	531.232M	33.6	-27.5	+19.1	+0.4	+4.4	+0.0	30.0	46.0	-16.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
148	488.454M	35.2	-27.6	+17.9	+0.3	+4.2	+0.0	30.0	46.0	-16.0	Vert
			+0.0	+0.0	+0.0	+0.0					
149	353.923M	39.1	-27.6	+14.6	+0.3	+3.5	+0.0	29.9	46.0	-16.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
150	36.678M	34.8	-27.8	+15.8	+0.1	+1.0	+0.0	23.9	40.0	-16.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
151	420.015M	37.0	-27.7	+16.3	+0.4	+3.8	+0.0	29.8	46.0	-16.2	Horiz
			+0.0	+0.0	+0.0	+0.0					
152	464.490M	35.4	-27.6	+17.4	+0.4	+4.1	+0.0	29.7	46.0	-16.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
153	399.757M	37.6	-27.8	+15.8	+0.4	+3.7	+0.0	29.7	46.0	-16.3	Horiz
			+0.0	+0.0	+0.0	+0.0					
154	374.986M	38.2	-27.7	+15.2	+0.4	+3.6	+0.0	29.7	46.0	-16.3	Vert
			+0.0	+0.0	+0.0	+0.0					
155	210.229M	42.4	-27.6	+9.6	+0.2	+2.6	+0.0	27.2	43.5	-16.3	Vert
			+0.0	+0.0	+0.0	+0.0					
156	444.028M	35.8	-27.6	+17.0	+0.4	+4.0	+0.0	29.6	46.0	-16.4	Vert
			+0.0	+0.0	+0.0	+0.0					
157	249.229M	41.7	-27.7	+12.4	+0.3	+2.9	+0.0	29.6	46.0	-16.4	Vert
			+0.0	+0.0	+0.0	+0.0					
158	109.585M	41.9	-27.7	+10.7	+0.2	+1.9	+0.0	27.0	43.5	-16.5	Horiz
			+0.0	+0.0	+0.0	+0.0					
159	325.232M	39.4	-27.6	+13.9	+0.3	+3.4	+0.0	29.4	46.0	-16.6	Horiz
			+0.0	+0.0	+0.0	+0.0					
160	254.465M	41.1	-27.7	+12.6	+0.3	+2.9	+0.0	29.2	46.0	-16.8	Horiz
			+0.0	+0.0	+0.0	+0.0					
161	201.229M	42.5	-27.6	+8.9	+0.2	+2.6	+0.0	26.6	43.5	-16.9	Vert
			+0.0	+0.0	+0.0	+0.0					
162	227.498M	42.8	-27.6	+10.9	+0.2	+2.7	+0.0	29.0	46.0	-17.0	Horiz
			+0.0	+0.0	+0.0	+0.0					
163	550.650M	31.7	-27.4	+19.7	+0.5	+4.5	+0.0	29.0	46.0	-17.0	Vert
			+0.0	+0.0	+0.0	+0.0					
164	203.479M	42.0	-27.6	+9.1	+0.2	+2.6	+0.0	26.3	43.5	-17.2	Vert
			+0.0	+0.0	+0.0	+0.0					

165	334.729M	38.5	-27.6 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	28.7	46.0	-17.3	Vert
166	232.729M	42.0	-27.6 +0.0	+11.3 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	28.7	46.0	-17.3	Vert
167	447.290M	34.8	-27.6 +0.0	+17.0 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	28.6	46.0	-17.4	Horiz
168	320.732M	38.8	-27.6 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	28.5	46.0	-17.5	Horiz
169	473.848M	33.8	-27.6 +0.0	+17.6 +0.0	+0.4 +0.0	+4.1 +0.0	+0.0	28.3	46.0	-17.7	Horiz
170	526.732M	31.9	-27.5 +0.0	+19.0 +0.0	+0.4 +0.0	+4.4 +0.0	+0.0	28.2	46.0	-17.8	Horiz
171	86.193M	40.0	-27.8 +0.0	+8.1 +0.0	+0.1 +0.0	+1.7 +0.0	+0.0	22.1	40.0	-17.9	Horiz
172	327.979M	37.9	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	28.0	46.0	-18.0	Vert
173	326.479M	37.6	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.6	46.0	-18.4	Vert
174	410.473M	35.0	-27.8 +0.0	+16.1 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	27.5	46.0	-18.5	Horiz
175	205.729M	40.4	-27.6 +0.0	+9.3 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.9	43.5	-18.6	Vert
176	486.204M	32.7	-27.6 +0.0	+17.8 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	27.3	46.0	-18.7	Vert
177	330.229M	37.1	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.2	46.0	-18.8	Vert
178	327.229M	37.1	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.1	46.0	-18.9	Vert
179	209.479M	39.7	-27.6 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.5	43.5	-19.0	Vert
180	460.707M	32.6	-27.6 +0.0	+17.3 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	26.7	46.0	-19.3	Horiz
181	349.682M	35.9	-27.6 +0.0	+14.5 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	26.6	46.0	-19.4	Horiz
182	242.479M	39.2	-27.7 +0.0	+12.0 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	26.6	46.0	-19.4	Vert
183	225.229M	40.5	-27.6 +0.0	+10.8 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	26.6	46.0	-19.4	Vert
184	206.479M	39.5	-27.6 +0.0	+9.3 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.0	43.5	-19.5	Vert
185	316.232M	36.9	-27.6 +0.0	+13.6 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	26.4	46.0	-19.6	Horiz
186	245.479M	38.7	-27.7 +0.0	+12.2 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	26.4	46.0	-19.6	Vert
187	425.440M	33.1	-27.7 +0.0	+16.5 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	26.2	46.0	-19.8	Horiz
188	325.729M	36.0	-27.6 +0.0	+13.9 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	26.0	46.0	-20.0	Vert

189	987.915M	29.4	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	33.8	54.0	-20.2	Horiz
190	487.782M	31.0	-27.6 +0.0	+17.9 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	25.8	46.0	-20.2	Horiz
191	436.882M	32.4	-27.7 +0.0	+16.8 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	25.8	46.0	-20.2	Horiz
192	371.957M	34.4	-27.7 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	25.7	46.0	-20.3	Vert
193	329.479M	35.2	-27.6 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	25.3	46.0	-20.7	Vert
194	963.782M	28.7	-27.1 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	33.2	54.0	-20.8	Vert
195	281.465M	36.4	-27.7 +0.0	+13.0 +0.0	+0.3 +0.0	+3.1 +0.0	+0.0	25.1	46.0	-20.9	Horiz
196	259.729M	37.0	-27.7 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	25.1	46.0	-20.9	Vert
197	263.465M	36.3	-27.7 +0.0	+12.7 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	24.6	46.0	-21.4	Horiz
198	987.943M	28.2	-27.2 +0.0	+24.6 +0.0	+0.7 +0.0	+6.3 +0.0	+0.0	32.6	54.0	-21.4	Vert
199	311.479M	35.0	-27.6 +0.0	+13.5 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	24.4	46.0	-21.6	Vert
200	317.479M	34.5	-27.6 +0.0	+13.7 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	24.1	46.0	-21.9	Vert
201	246.229M	36.3	-27.7 +0.0	+12.2 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	24.0	46.0	-22.0	Vert
202	390.057M	31.9	-27.8 +0.0	+15.6 +0.0	+0.4 +0.0	+3.7 +0.0	+0.0	23.8	46.0	-22.2	Vert
203	422.307M	30.7	-27.7 +0.0	+16.4 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	23.6	46.0	-22.4	Vert
204	264.979M	35.3	-27.7 +0.0	+12.7 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	23.6	46.0	-22.4	Vert
205	484.565M	28.8	-27.6 +0.0	+17.8 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	23.4	46.0	-22.6	Horiz
206	347.479M	32.7	-27.6 +0.0	+14.4 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	23.3	46.0	-22.7	Vert
207	339.229M	33.0	-27.6 +0.0	+14.2 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	23.3	46.0	-22.7	Vert
208	344.479M	32.6	-27.6 +0.0	+14.4 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	23.2	46.0	-22.8	Vert
209	309.979M	33.8	-27.6 +0.0	+13.5 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	23.2	46.0	-22.8	Vert
210	965.623M	26.5	-27.1 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	31.0	54.0	-23.0	Horiz
211	303.229M	33.9	-27.6 +0.0	+13.3 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	23.0	46.0	-23.0	Vert
212	279.979M	34.5	-27.7 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	23.0	46.0	-23.0	Vert

213	380.985M	30.9	-27.7 +0.0	+15.3 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	22.5	46.0	-23.5	Vert
214	257.479M	34.2	-27.7 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	22.3	46.0	-23.7	Vert
215	241.729M	35.0	-27.7 +0.0	+11.9 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	22.3	46.0	-23.7	Vert
216	296.479M	33.1	-27.6 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	22.1	46.0	-23.9	Vert
217	273.979M	32.6	-27.7 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	21.1	46.0	-24.9	Vert

OCCUPIED BANDWIDTH

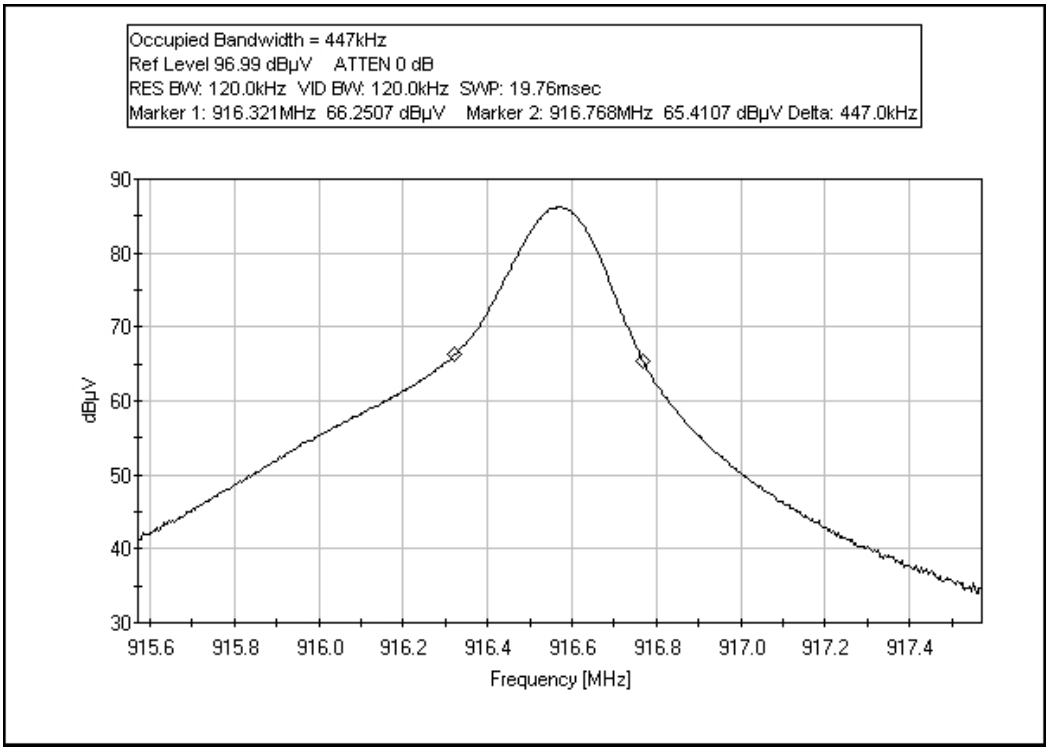
Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Bilog Antenna	01995	Chase	CBL6111C	2451	020206	020208
Pre-amp	00309	HP	8447D	1937A02548	060106	060108
Antenna cable	P05198	Belden	8268 (RG-214)	Cable#15	010507	010509
Pre-amp to SA cable	P05050	Pasternack	RG223/U	Cable#10	051607	051609

Test Conditions: The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity.

Test Setup Photos

Plot



Tested By: Eddie Wong

BANDEDGE PLOTS

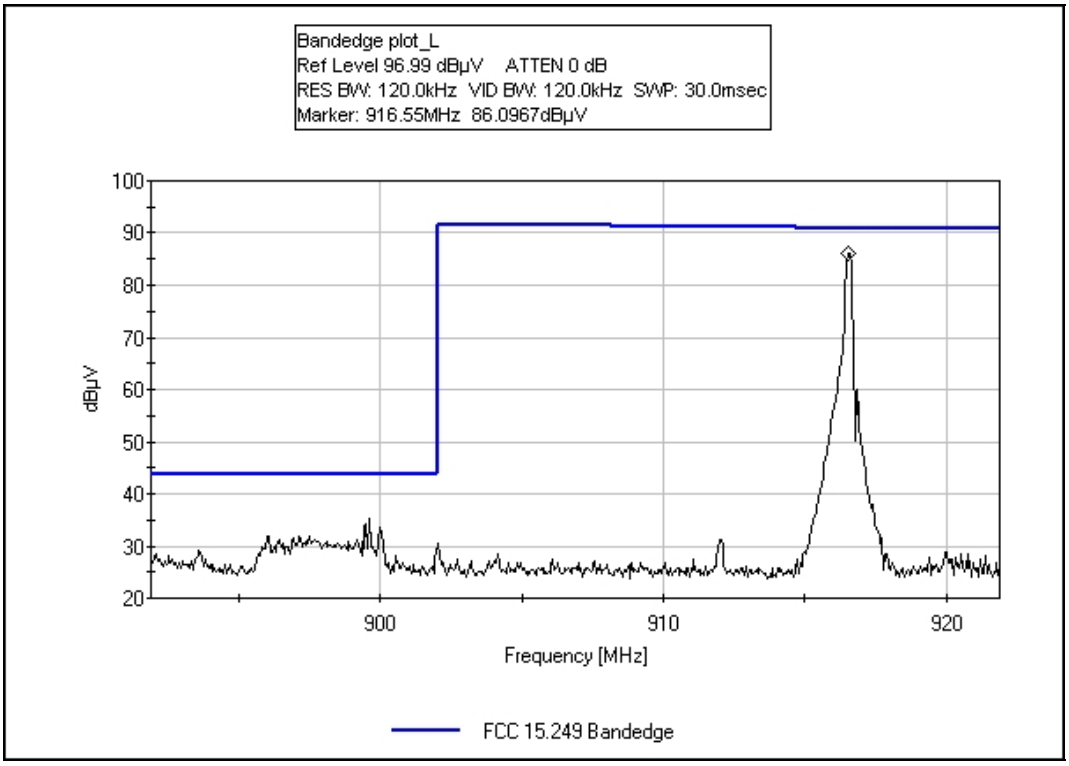
Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Bilog Antenna	01995	Chase	CBL6111C	2451	020206	020208
Pre-amp	00309	HP	8447D	1937A02548	060106	060108
Antenna cable	P05198	Belden	8268 (RG-214)	Cable#15	010507	010509
Pre-amp to SA cable	P05050	Pasternack	RG223/U	Cable#10	051607	051609

Test Conditions: The single channel EUT is placed connected to the USB port of a support laptop, the antenna is orientated upright (intended operation) on a wooden table with Styrofoam surface of 5 cm thickness. The support laptop is running application to exercise the EUT continuously transmit and receive mode. A section of unterminated ethernet cable is terminated to a remote support ethernet switch. Frequency = 916.571MHz. 23°C, 61% relative humidity.

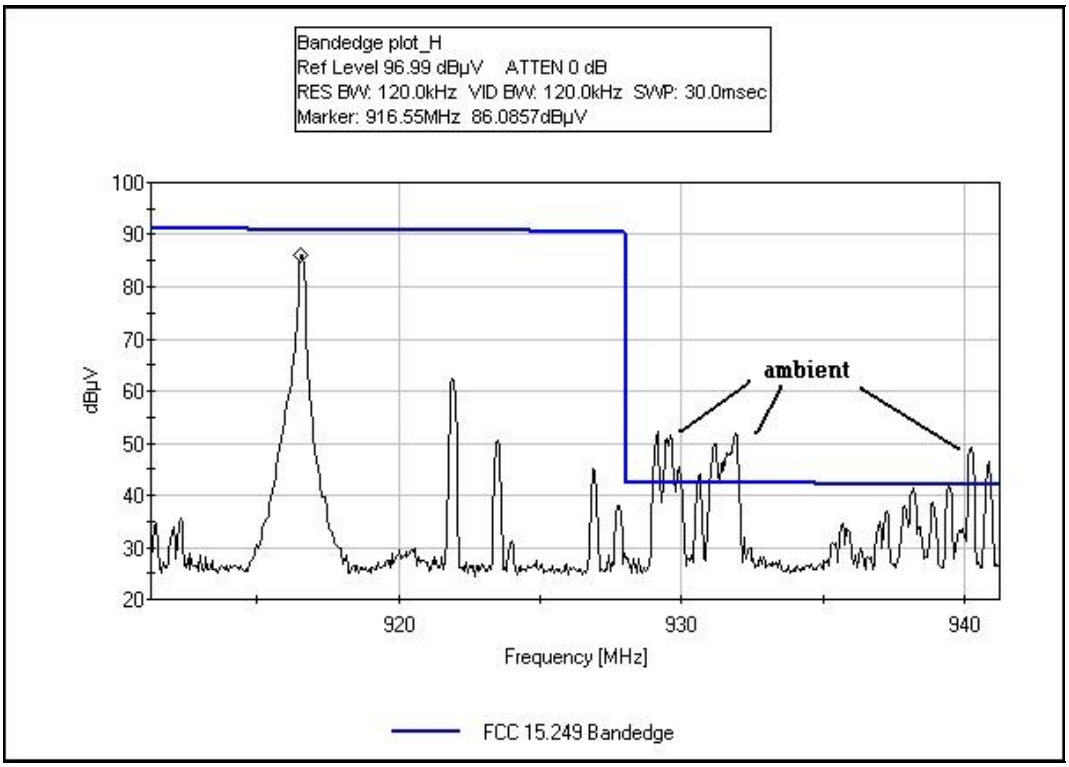
Test Setup Photos

BANDEDGE PLOT L



Tested By: Eddie Wong

BANDEDGE PLOT H



Tested By: Eddie Wong