

FCC PART 15, SUBPART B and C
TEST REPORT

for
CORDLESS PHASING TESTER

MODEL: PD800W

Prepared for
BIERER & ASSOCIATES, INC.
11142 WILSON BOLUEVARD
BLYTHEWOOD, SC 29016

Prepared by: *Kyle Fujimoto*

KYLE FUJIMOTO

Approved by: *James Ross*

JAMES ROSS

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
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DATE: MAY 10, 2006

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	15	2	2	2	12	10	43

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1	Plot Map And Layout of 3 Meter Radiated Site

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Cordless Phasing Tester
Model: PD800W
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Bierer & Associates, Inc.
183 Wilson Boulevard
Blythewood, SC 29016

Test Date: April 19, 2006

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249

Test Procedure: ANSI C63.4

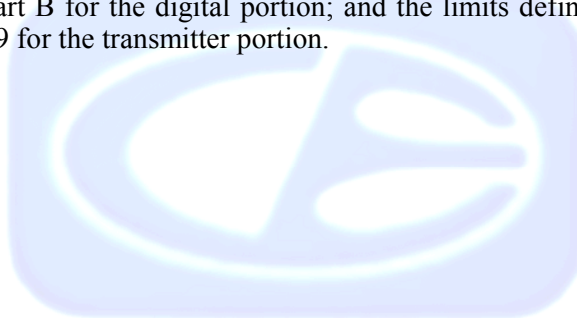
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz	This test was not performed because the EUT operates on DC power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz - 9200 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.
3	Radiated RF Emissions, 30 MHz - 1000 MHz (Digital Portion)	Complies with the Class A limits of CFR Title 47, Part 15, Subpart B.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Cordless Phasing Tester Model: PD800W. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Bierer & Associates, Inc.

Walter Bierer President

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer
James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on April 19, 2006.

2.5 Disposition of the Test Sample

The sample has not yet been returned to Bierer & Associates, Inc. as of May 10, 2006.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Cordless Phasing Tester Model: PD800W (EUT) was tested as a stand alone device. During the test, the EUT was continuously transmitting. The EUT has an external antenna with a reverse SMA connector.

The final radiated data was taken in the mode above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

There are no external cables connected to the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
CORDLESS PHASING TESTER (EUT)	BIERER & ASSOCIATES, INC.	PD800W	N/A	RQD-PD800

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08768	June 21, 2005	June 21, 2006
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 21, 2005	June 21, 2006
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 17, 2005	June 17, 2006
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100172	October 28, 2004	October 28, 2006
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Preamplifier	Com Power	PA-102	1017	January 19, 2006	Jan. 19, 2007
Biconical Antenna	Com Power	AB-900	15227	March 9 2006	March 9 2007
Log Periodic Antenna	Com Power	AL-100	16060	August 22, 2005	Aug. 22, 2006
Loop Antenna	Com Power	AL-130	17089	September 21, 2005	Sept. 21, 2006
Horn Antenna	Com Power	AH-118	10067	July 27, 2004	July 27, 2006
Microwave Preamplifier	Com Power	PA-122	181917	January 20, 2006	Jan. 20, 2007
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

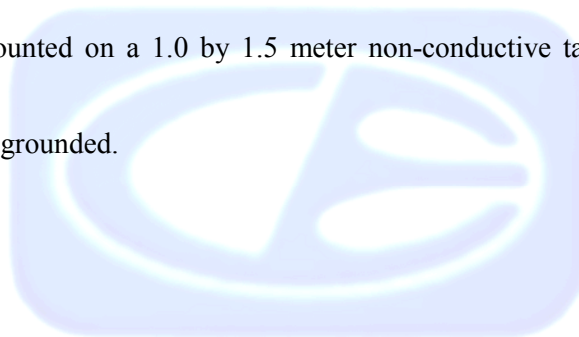
6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 9.2 GHz	1 MHz	Horn Antenna

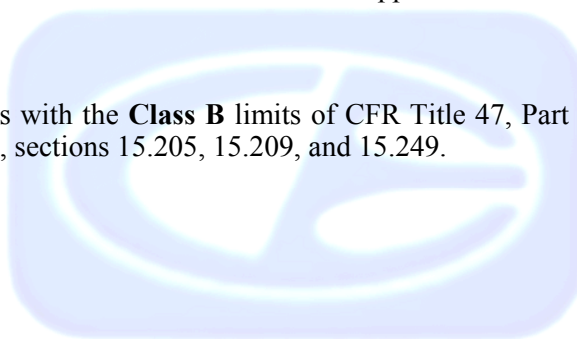
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.



8. CONCLUSIONS

The Cordless Phasing Tester Model: PD800W meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



APPENDIX A

LABORATORY RECOGNITIONS

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
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Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

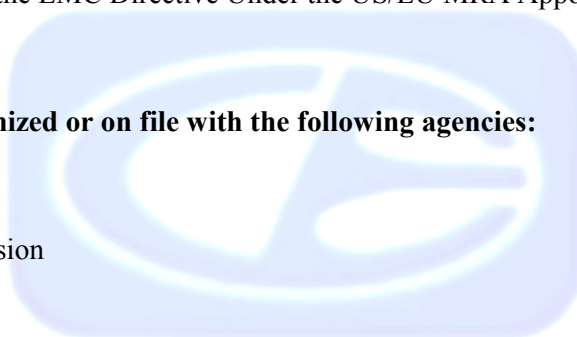
Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)



APPENDIX B

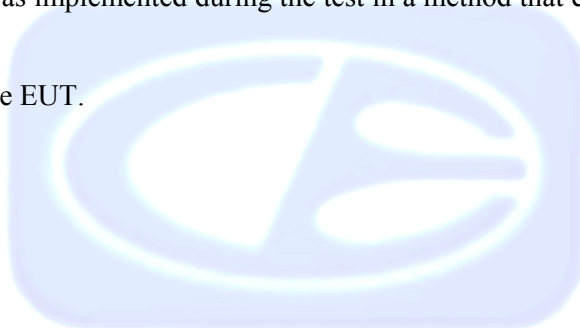
MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT.





APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

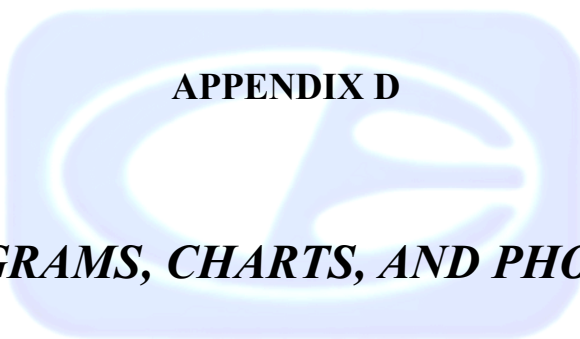
ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Cordless Phasing Tester
Model: PD800W
S/N: N/A

There were no additional models covered under this report.





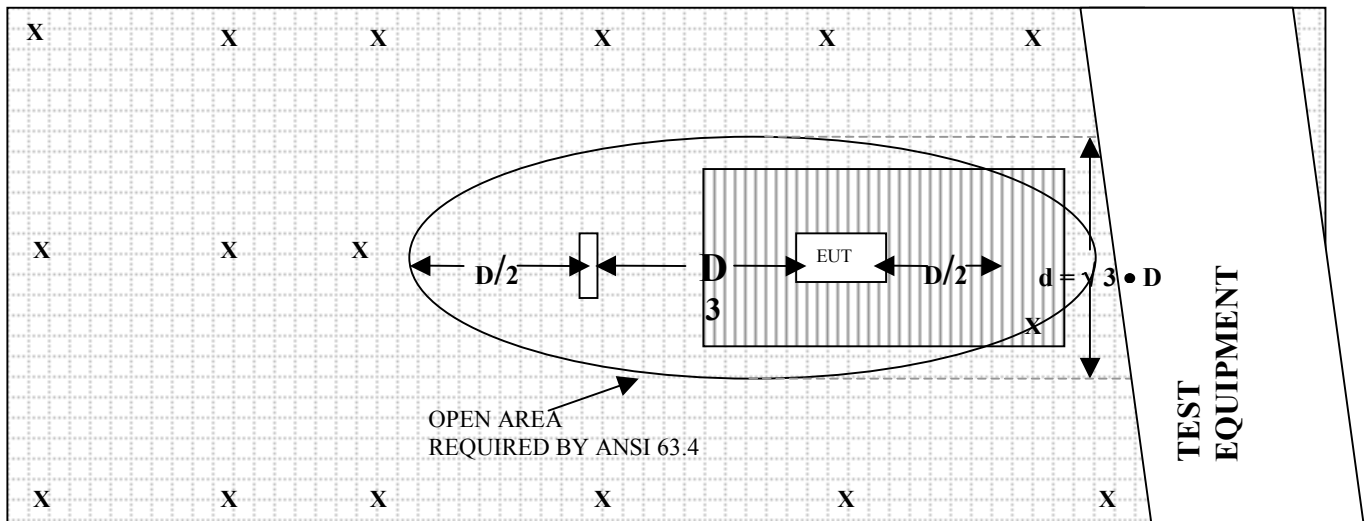
APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF 3 METER RADIATED SITE

OPEN LAND > 15 METERS

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS		= GROUND SCREEN
D	= TEST DISTANCE (meters)		= WOOD COVER

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: MARCH 9, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.12	120	13.50
35	10.17	125	12.63
40	9.75	140	12.20
45	12.22	150	11.85
50	13.28	160	13.25
60	11.36	175	15.74
70	7.95	180	16.23
80	5.95	200	16.79
90	7.62	250	16.47
100	10.89	300	17.49

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: AUGUST 22, 2005

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.73	700	19.72
400	13.38	800	20.49
500	15.12	900	21.31
600	16.27	1000	24.25

COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 19, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.3	300	38.4
40	38.4	350	38.4
50	38.3	400	38.0
60	38.4	450	38.1
70	38.5	500	37.5
80	38.4	550	38.0
90	38.4	600	38.0
100	38.4	650	37.7
125	38.1	700	37.7
150	38.5	750	37.7
175	38.4	800	37.0
200	38.3	850	37.2
225	38.3	900	36.6
250	38.1	950	36.3
275	38.3	1000	36.3

COM-POWER PA-122**PREAMPLIFIER****S/N: 181917****CALIBRATION DATE: JANUARY 20, 2006**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	34.697	10.0	36.558
1.5	33.817	10.5	35.048
2.0	33.587	11.0	33.258
2.5	33.804	11.5	32.960
3.0	33.850	12.0	33.312
3.5	33.943	12.5	33.836
4.0	34.399	13.0	34.178
4.5	34.847	13.5	34.197
5.0	35.172	14.0	33.769
5.5	35.383	14.5	33.392
6.0	35.539	15.0	33.387
6.5	34.802	15.5	34.038
7.0	33.793	16.0	34.884
7.5	33.511	16.5	35.740
8.0	33.910	17.0	35.341
8.5	34.907	17.5	34.729
9.0	36.036	18.0	33.760
9.5	36.661		

COM POWER AH-118

HORN ANTENNA

S/N: 10067

CALIBRATION DATE: JULY 27, 2004

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	25.0	10.0	37.8
1.5	27.9	10.5	39.4
2.0	31.5	11.0	39.4
2.5	31.1	11.5	40.6
3.0	30.6	12.0	40.8
3.5	30.5	12.5	40.5
4.0	30.6	13.0	41.2
4.5	31.4	13.5	42.0
5.0	33.7	14.0	43.1
5.5	33.8	14.5	43.4
6.0	34.7	15.0	39.2
6.5	35.0	15.5	38.8
7.0	35.9	16.0	40.1
7.5	38.1	16.5	40.2
8.0	38.2	17.0	43.4
8.5	37.7	17.5	46.6
9.0	37.7	18.0	45.8
9.5	38.4		

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 21, 2005

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-42.84	8.66
0.01	-41.93	9.57
0.02	-41.29	10.21
0.05	-42.37	9.13
0.07	-41.8	9.7
0.1	-41.83	9.67
0.2	-44.13	7.37
0.3	-41.73	9.77
0.5	-41.8	9.7
0.7	-41.53	9.97
1	-41.46	10.04
2	-41.14	10.36
3	-41.26	10.24
4	-41.46	10.04
5	-41.10	10.40
10	-40.83	10.67
15	-41.47	10.03
20	-35.44	16.06
25	-42.37	9.13
30	-42.94	8.56



FRONT VIEW

BIERER & ASSOCIATES, INC.
CORDLESS PHASING TESTER
MODEL: PD800W
FCC SUBPART C – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
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(949) 587-0400



REAR VIEW

BIERER & ASSOCIATES, INC.
CORDLESS PHASING TESTER
MODEL: PD800W
FCC SUBPART C – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
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FRONT VIEW

BIERER & ASSOCIATES, INC.
CORDLESS PHASING TESTER
MODEL: PD800W
FCC SUBPART B – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

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MODEL: PD800W
FCC SUBPART B – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

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(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - X Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	86.19	V	94	-7.81	Peak	1	180	
1832	46.54	V	74	-27.46	Peak	1	180	
1832	35.22	V	54	-18.78	Avg	1	180	
2748	48.96	V	74	-25.04	Peak	1.68	180	
2748	37.81	V	54	-16.19	Avg	1.68	180	
3664	48.55	V	74	-25.45	Peak	1.52	180	
3664	34.93	V	54	-19.07	Avg	1.52	180	
4580	41.58	V	74	-32.42	Peak	1.05	90	
4580	31.36	V	54	-22.64	Avg	1.05	90	
5496		V	74	-74	Peak			
5496		V	54	-54	Avg			No Emissions Detected
6412		V	74	-74	Peak			
6412		V	54	-54	Avg			No Emissions Detected
7328		V	74	-74	Peak			
7328		V	54	-54	Avg			No Emissions Detected
8244		V	74	-74	Peak			
8244		V	54	-54	Avg			No Emissions Detected
9160		V	74	-74	Peak			
9160		V	54	-54	Avg			No Emissions Detected

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - X Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	93.39	H	94	-0.61	Peak	1	180	
916	93.24	H	94	-0.76	Q.P.	1	180	
1832	48.73	H	74	-25.27	Peak	1.1	180	
1832	41.47	H	54	-12.53	Avg	1.1	180	
2748	49.95	H	74	-24.05	Peak	2.27	270	
2748	40.69	H	54	-13.31	Avg	2.27	270	
3664	48.05	H	74	-25.95	Peak	2.19	180	
3664	35.65	H	54	-18.35	Avg	2.19	180	
4580	41.17	H	74	-32.83	Peak	1.43	270	
4580	28.26	H	54	-25.74	Avg	1.43	270	
5496		H	74	-74	Peak			No Emissions
5496		H	54	-54	Avg			Detected
6412		H	74	-74	Peak			No Emissions
6412		H	54	-54	Avg			Detected
7328		H	74	-74	Peak			No Emissions
7328		H	54	-54	Avg			Detected
8244		H	74	-74	Peak			No Emissions
8244		H	54	-54	Avg			Detected
9160		H	74	-74	Peak			No Emissions
9160		H	54	-54	Avg			Detected

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - Y Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	89.88	V	94	-4.12	Peak	1	90	
1832	48.69	V	74	-25.31	Peak	1	45	
1832	38.92	V	54	-15.08	Avg	1	45	
2748	50.4	V	74	-23.6	Peak	1.1	0	
2748	42.68	V	54	-11.32	Avg	1.1	0	
3664	49.8	V	74	-24.2	Peak	1.15	45	
3664	38.59	V	54	-15.41	Avg	1.15	45	
4580	42.16	V	74	-31.84	Peak	1.59	0	
4580	31.23	V	54	-22.77	Avg	1.59	0	
5496		V	74	-74	Peak			No Emissions
5496		V	54	-54	Avg			Detected
6412		V	74	-74	Peak			No Emissions
6412		V	54	-54	Avg			Detected
7328		V	74	-74	Peak			No Emissions
7328		V	54	-54	Avg			Detected
8244		V	74	-74	Peak			No Emissions
8244		V	54	-54	Avg			Detected
9160		V	74	-74	Peak			No Emissions
9160		V	54	-54	Avg			Detected

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - Y Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	91.68	H	94	-2.32	Peak	1	90	
916	91.29	H	94	-2.71	Q.P.	1	90	
1832	48.55	H	74	-25.45	Peak	1.15	90	
1832	39.19	H	54	-14.81	Avg	1.15	90	
2748	50.27	H	74	-23.73	Peak	1.16	135	
2748	41.06	H	54	-12.94	Avg	1.16	135	
3664	49.01	H	74	-24.99	Peak	1.31	45	
3664	36.97	H	54	-17.03	Avg	1.31	45	
4580	42.6	H	74	-31.4	Peak	1.41	0	
4580	31.14	H	54	-22.86	Avg	1.41	0	
5496		H	74	-74	Peak			No Emissions
5496		H	54	-54	Avg			Detected
6412		H	74	-74	Peak			No Emissions
6412		H	54	-54	Avg			Detected
7328		H	74	-74	Peak			No Emissions
7328		H	54	-54	Avg			Detected
8244		H	74	-74	Peak			No Emissions
8244		H	54	-54	Avg			Detected
9160		H	74	-74	Peak			No Emissions
9160		H	54	-54	Avg			Detected

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - Z Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	93.18	V	94	-0.82	Peak	1.5	180	
916	93.16	V	94	-0.84	Q.P.	1.5	180	
1832	47.43	V	74	-26.57	Peak	1.94	180	
1832	38.17	V	54	-15.83	Avg	1.94	180	
2748	50.05	V	74	-23.95	Peak	1.63	270	
2748	39.24	V	54	-14.76	Avg	1.63	270	
3664	48.51	V	74	-25.49	Peak	1.66	180	
3664	34.92	V	54	-19.08	Avg	1.66	180	
4580	43.14	V	74	-30.86	Peak	2.38	180	
4580	32.24	V	54	-21.76	Avg	2.38	180	
5496		V	74	-74	Peak			No Emissions
5496		V	54	-54	Avg			Detected
6412		V	74	-74	Peak			No Emissions
6412		V	54	-54	Avg			Detected
7328		V	74	-74	Peak			No Emissions
7328		V	54	-54	Avg			Detected
8244		V	74	-74	Peak			No Emissions
8244		V	54	-54	Avg			Detected
9160		V	74	-74	Peak			No Emissions
9160		V	54	-54	Avg			Detected

FCC 15.249

Bierer & Associates

Transmitter

M/N: PD800W

Date: 04/19/06

Lab: B

Tested By: Benigno Chavez

916 MHz Fundamental - Z Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916	87.79	H	94	-6.21	Peak	1.25	180	
916	87.48	H	94	-6.52	Q.P.	1.25	180	
1832	47.78	H	74	-26.22	Peak	1.62	270	
1832	36.44	H	54	-17.56	Avg	1.62	270	
2748	48.83	H	74	-25.17	Peak	1.59	90	
2748	37.94	H	54	-16.06	Avg	1.59	90	
3664	49.63	H	74	-24.37	Peak	1.2	180	
3664	36.62	H	54	-17.38	Avg	1.2	180	
4580	40.66	H	74	-33.34	Peak	1.65	0	
4580	27.46	H	54	-26.54	Avg	1.65	0	
5496		H	74	-74	Peak			No Emissions
5496		H	54	-54	Avg			Detected
6412		H	74	-74	Peak			No Emissions
6412		H	54	-54	Avg			Detected
7328		H	74	-74	Peak			No Emissions
7328		H	54	-54	Avg			Detected
8244		H	74	-74	Peak			No Emissions
8244		H	54	-54	Avg			Detected
9160		H	74	-74	Peak			No Emissions
9160		H	54	-54	Avg			Detected

Bierer & Associates
Transmitter
M/N: PD800W

Lab: B

Non-Harmonic Emissions From the EUT 1 GHz to 10 GHz

[illegible]

Test Location	: Compatible Electronics	Page	: 1/1
Customer	: Bierer & Associates, Inc.	Date	: 4/19/2006
Manufacturer	: Bierer & Associates, Inc.	Time	: 14:09:06
Eut name	: Cordless Phasing Tester	Lab	: A
Model	: PD800W	Test Distance	: 3.0
Serial #	:		
Specification	: FCC Class B		
Distance correction factor (20 * log(test/spec))			: 0.00
Test Mode	: Qualification Scan		
	Vertical and Horizontal Polarizations		
	Test Range: 10 kHz to 1 GHz		
	Tested By: Benigno Chavez		

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1H	110.051	53.30	1.09	12.26	38.27	28.38	43.50	-15.12
2H	230.056	53.50	1.92	16.59	38.26	33.75	46.00	-12.25
3H	240.085	47.80	1.96	16.53	38.18	28.11	46.00	-17.89
4H	250.109	50.60	2.00	16.47	38.10	30.97	46.00	-15.03
5H	260.064	44.80	2.04	16.69	38.18	25.35	46.00	-20.65
6H	270.057	52.80	2.08	16.90	38.26	33.52	46.00	-12.48
7H	290.061	51.10	2.16	17.30	38.36	32.20	46.00	-13.80
8V	290.092	45.50	2.16	17.30	38.36	26.60	46.00	-19.40
9H	300.063	53.80	2.20	12.73	38.40	30.33	46.00	-15.67
10H	310.050	58.30	2.22	12.80	38.40	34.93	46.00	-11.07
11V	310.054	43.70	2.22	12.80	38.40	20.33	46.00	-25.67
12H	320.065	54.40	2.24	12.88	38.40	31.12	46.00	-14.88
13H	330.059	57.70	2.26	12.95	38.40	34.51	46.00	-11.49
14H	340.059	52.00	2.28	13.01	38.40	28.89	46.00	-17.11
15H	350.053	55.80	2.30	13.08	38.40	32.78	46.00	-13.22
16H	360.099	50.90	2.32	13.14	38.31	28.05	46.00	-17.95
17H	370.062	54.80	2.34	13.20	38.23	32.11	46.00	-13.89
18H	380.053	48.50	2.36	13.26	38.15	25.97	46.00	-20.03
19H	390.052	52.10	2.38	13.32	38.08	29.73	46.00	-16.27
20H	400.052	49.00	2.40	13.38	38.00	26.78	46.00	-19.22
21H	410.055	52.00	2.46	13.57	38.02	30.02	46.00	-15.98
22H	420.059	49.30	2.52	13.76	38.04	27.54	46.00	-18.46
23H	430.105	48.90	2.58	13.95	38.06	27.37	46.00	-18.63
24H	440.048	51.00	2.64	14.12	38.08	29.69	46.00	-16.31
25V	440.068	43.10	2.64	14.12	38.08	21.79	46.00	-24.21
26H	450.057	47.90	2.70	14.30	38.10	26.80	46.00	-19.20
27H	460.048	50.00	2.74	14.47	37.97	29.24	46.00	-16.76
28H	470.103	47.90	2.78	14.64	37.85	27.47	46.00	-18.53
29H	480.062	47.40	2.82	14.80	37.73	27.29	46.00	-18.71