

*FCC PART 15, SUBPART B and C
TEST REPORT**for***SIRIUS CONDUCTOR RADIO****MODEL: SC-H1W**Prepared for
UNIVERSAL ELECTRONICS, INC.
6101 GATEWAY DRIVE
CYPRESS, CALIFORNIA 90630-4841Prepared by: *Kyle Fujimoto*

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COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATE: OCTOBER 4, 2006

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
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2	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: Sirius Conductor Radio
Model: SC-H1W
S/N: N/A

Product Description: See Expository Statement

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

Customer: Universal Electronics, Inc.
6101 Gateway Drive
Cypress, California 90630-4841

Manufacturer: Kiryung Electronics Corporation
219-6, Gasan-Dong, Kumchun-Ku
Seoul, 153-023, South Korea

Test Dates: September 18 and 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

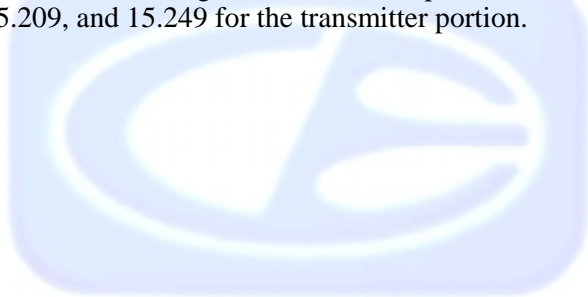
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B.
2	Radiated RF Emissions, 10 kHz – 9300 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.249.
3	Radiated RF Emissions, 10 kHz – 9300 MHz (Digital and Receiver Portion)	Complies with the Class B 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 Sirius Conductor Radio, Model: SC-H1W. 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 and receiver 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

Universal Electronics, Inc.

Jesse Mendez Electrical Staff Engineer

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer

James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on September 18, 2006.

2.5 Disposition of the Test Sample

The sample has been returned to Universal Electronics, Inc. on September 19, 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 Sirius Conductor Radio, Model: SC-H1W (EUT) was connected to a home receiver, AC adapter, infrared antenna, satellite antenna, and two (2) 10,000 ohm resistors via its second tuner, 5 volts DC, IR connect, antenna, and audio output ports, respectively. The EUT was transmitting and receiving on a continuous basis.

Note: A Sirius LCD Remote, Model: URC-10000 was used to verify the transmit and receive functions of the EUT.

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

4.1.1 Cable Construction and Termination

- Cable 1 This is a 60-centimeter foil shielded cable connecting the home receiver to the EUT. The cable has an 8 pin mini DIN on each side. The shield of the cable was grounded to the chassis via the connectors.
- Cable 2 This is a 1.89-meter cable connecting the EUT to the AC Adapter. The cable has a 1/16 inch power connector at the EUT end and is hard wired into the AC Adapter.
- Cable 3 This is a 2.84-meter cable connecting the EUT to the infrared antenna. The cable has a 1/8 inch mono connector at the EUT end and is hard wired into the infrared antenna. The cable was bundled to a length of 65-centimeters.
- Cable 4 This is a 5.8-meter braid shielded cable connecting the EUT to the satellite antenna. The cable has a metallic female mini TNC connector at the EUT end and is hard wired into the satellite antenna. The cable was bundled to a length of 70-centimeters. The shield of the cable was grounded to the chassis via the connector.
- Cable 5 This is a 1.52-meter braid shielded cable connecting the EUT to two (2) 10,000 ohm resistors. The cable has 2 RCA connectors at each end. The cable was bundled to a length of 93-centimeters. The shield of the cable was grounded to the chassis via the connectors.

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

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
SIRIUS CONDUCTOR RADIO (EUT)	KIRYUNG ELECTRONICS	SC-H1W	KRK060805000043	MG3SC-H1W
HOME RECEIVER	KIRYUNG ELECTRONICS	SC-H1	012548969022	DoC
INFRARED ANTENNA	N/A	N/A	N/A	N/A
SATELLITE ANTENNA	SIRIUS	SIR-3.3RCTH1D0Y	6174E73120A	N/A
(2) 10,000 OHM RESISTORS	N/A	N/A	N/A	N/A
AC ADAPTER FOR THE EUT	KTEC	KSAB0520100WLUS	N/A	N/A
SIRIUS LCD REMOTE	UNIVERSAL ELECTRONICS, INC.	URC-10000	N/A	MG310000

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
EMI Receiver	Rohde & Schwarz	ESIB40	100172	October 28, 2004	October 28, 2006
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	July 17, 2006	July 17, 2007
Loop Antenna	Com Power	AL-130	17089	September 21, 2005	Sept. 21, 2006
Horn Antenna	Antenna Research	DRG-118/A	1053	March 6, 2006	March 6, 2007
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
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 26, 2006	May 26, 2007
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22279	May 26 2006	May 26, 2007
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 26, 2006	May 26, 2007
LISN	Com Power	LI-215	12090	September 13, 2006	Sept. 13, 2007
LISN	Com Power	LI-215	12076	September 13, 2006	Sept. 13, 2007
Transient Limiter	Seaward	252A910	K39-0220	September 15, 2006	Sept. 15, 2007

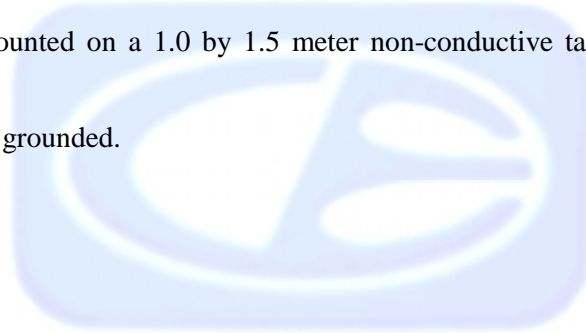
6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

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 Sirius Conductor Radio, Model: SC-H1W 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
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

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

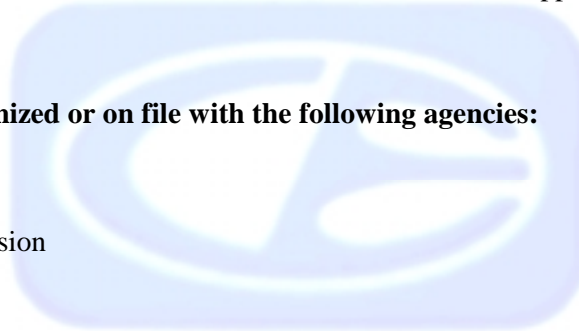
Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

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***

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

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Sirius Conductor Radio
Model: SC-H1W
S/N: N/A

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

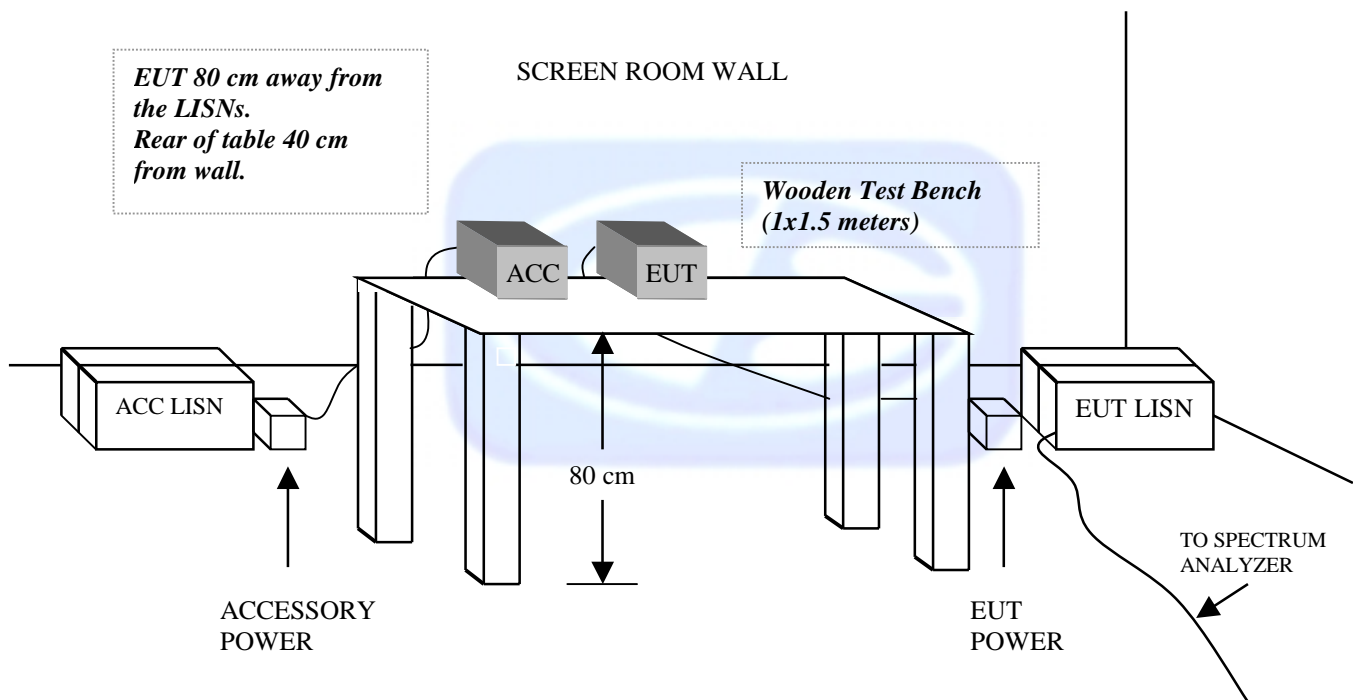
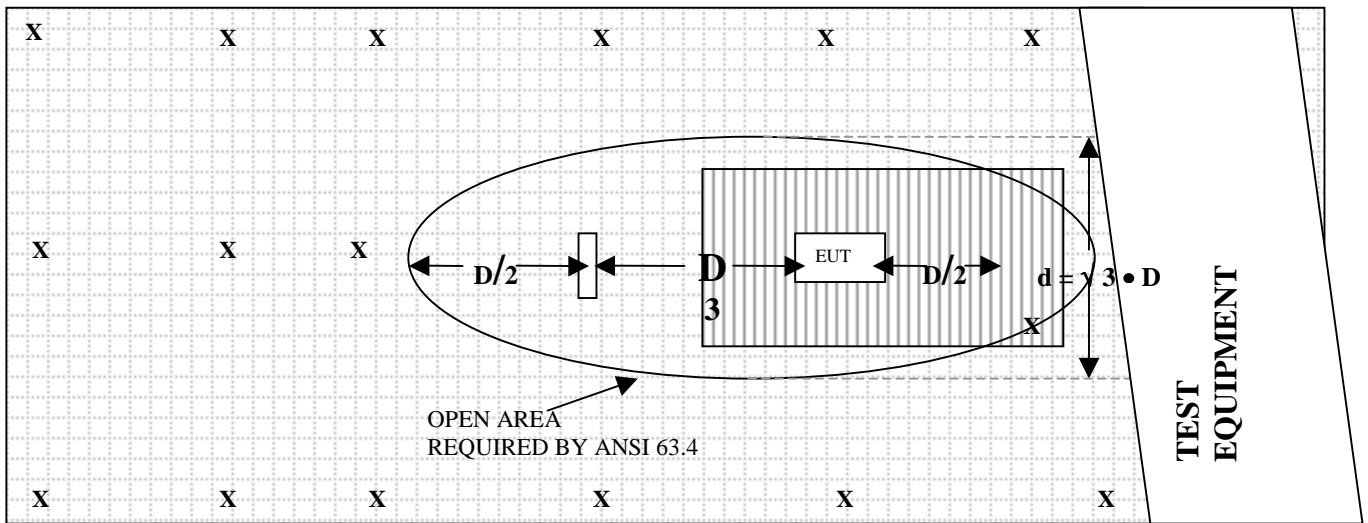


FIGURE 2: PLOT MAP AND LAYOUT OF 3 METER RADIATED SITE

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: JULY 17, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.58	700	20.49
400	14.53	800	20.13
500	15.36	900	22.15
600	18.29	1000	22.76

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		

ANTENNA RESEARCH DRG-118/A**HORN ANTENNA**

S/N: 1053

CALIBRATION DATE: MARCH 6, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.46	10.0	39.55
1.5	25.05	10.5	39.86
2.0	28.42	11.0	38.49
2.5	29.91	11.5	40.71
3.0	31.46	12.0	40.59
3.5	31.91	12.5	40.17
4.0	31.55	13.0	39.70
4.5	31.94	13.5	40.84
5.0	32.90	14.0	41.58
5.5	34.07	14.5	45.14
6.0	35.69	15.0	42.20
6.5	33.11	15.5	39.42
7.0	36.51	16.0	38.80
7.5	37.27	16.5	41.08
8.0	37.21	17.0	44.11
8.5	37.16	17.5	46.29
9.0	38.27	18.0	41.61
9.5	39.73		

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

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – RADIATED EMISSIONS

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

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

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

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



REAR VIEW

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – RADIATED EMISSIONS

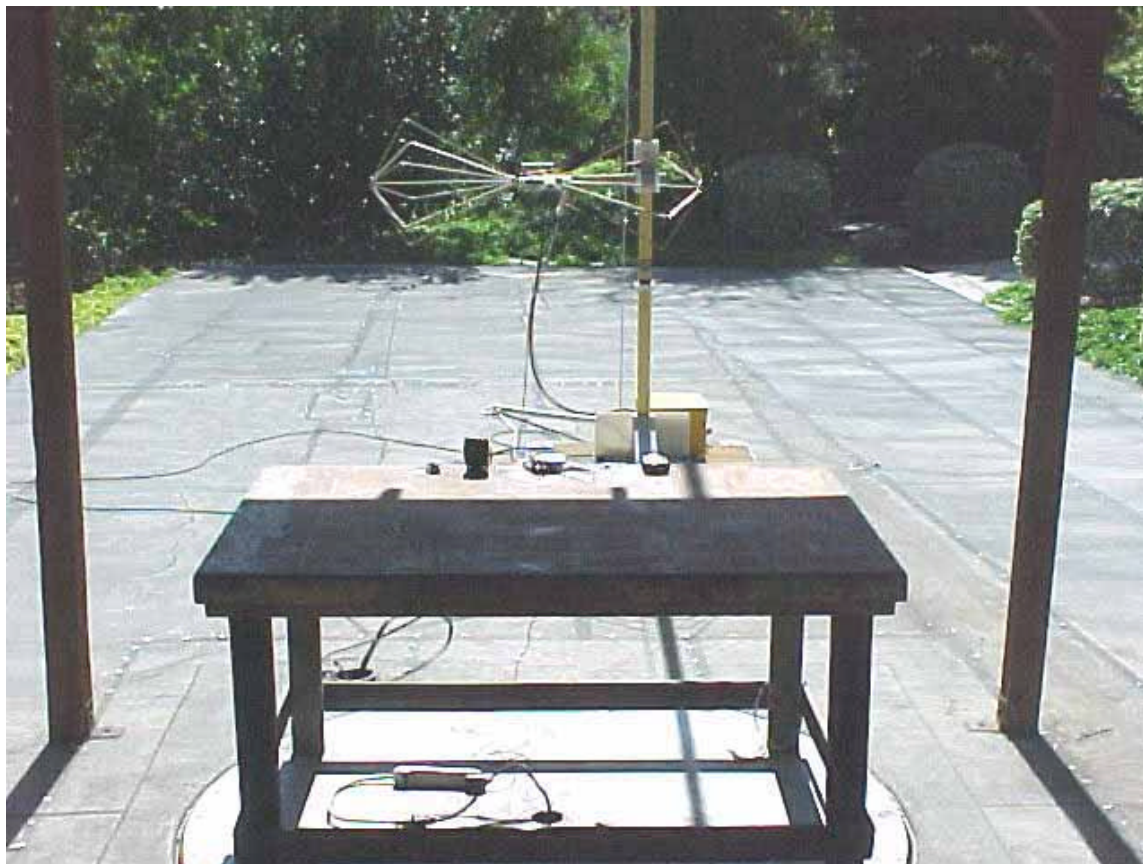
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

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

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
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(949) 589-0700

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



FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – RADIATED EMISSIONS

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

Brea Division
114 Olinda Drive
Brea, CA 92823
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REAR VIEW

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – RADIATED EMISSIONS

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

Brea Division
114 Olinda Drive
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FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

Brea Division
114 Olinda Drive
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REAR VIEW

UNIVERSAL ELECTRONICS, INC.
SIRIUS CONDUCTOR RADIO
MODEL: SC-H1W
FCC SUBPART B AND C – CONDUCTED EMISSIONS

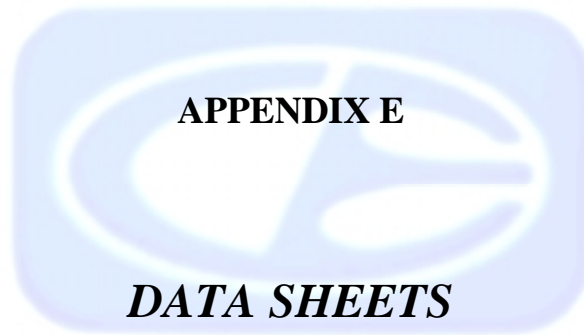
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

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

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

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



RADIATED EMISSIONS

DATA SHEETS

FCC 15.249

Universal Electronics, Inc.
 Sirius Conductor Radio
 Model: SC-H1W

Date: 09/18/06

Lab: B

Tested By: Kyle Fujimoto

X-Axis - Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
908.4	82.92	V	94	-11.08	Peak	1	180	
1816.8	33.51	V	74	-40.49	Peak	2.11	135	
1816.8	24.94	V	54	-29.06	Avg	2.11	135	
2725.2	35.89	V	74	-38.11	Peak	2.41	180	
2725.2	24.73	V	54	-29.27	Avg	2.41	180	
3633.6	41.98	V	74	-32.02	Peak	2.55	135	
3633.6	36.66	V	54	-17.34	Avg	2.55	135	
4542	36.71	V	74	-37.29	Peak	1	135	
4542	23.17	V	54	-30.83	Avg	1	135	
5450.4	38.9	V	74	-35.1	Peak	1.59	135	
5450.4	26.35	V	54	-27.65	Avg	1.59	135	
6358.8	39.94	V	74	-34.06	Peak	1.59	180	
6358.8	26.9	V	54	-27.1	Avg	1.59	180	
7267.2	43.18	V	74	-30.82	Peak	1.25	135	
7267.2	30.73	V	54	-23.27	Avg	1.25	135	
8175.6	42.77	V	74	-31.23	Peak	1.69	225	
8175.6	30.81	V	54	-23.19	Avg	1.69	225	
9084	43.26	V	74	-30.74	Peak	1.59	135	
9084	31.1	V	54	-22.9	Avg	1.59	135	

CONDUCTED EMISSIONS

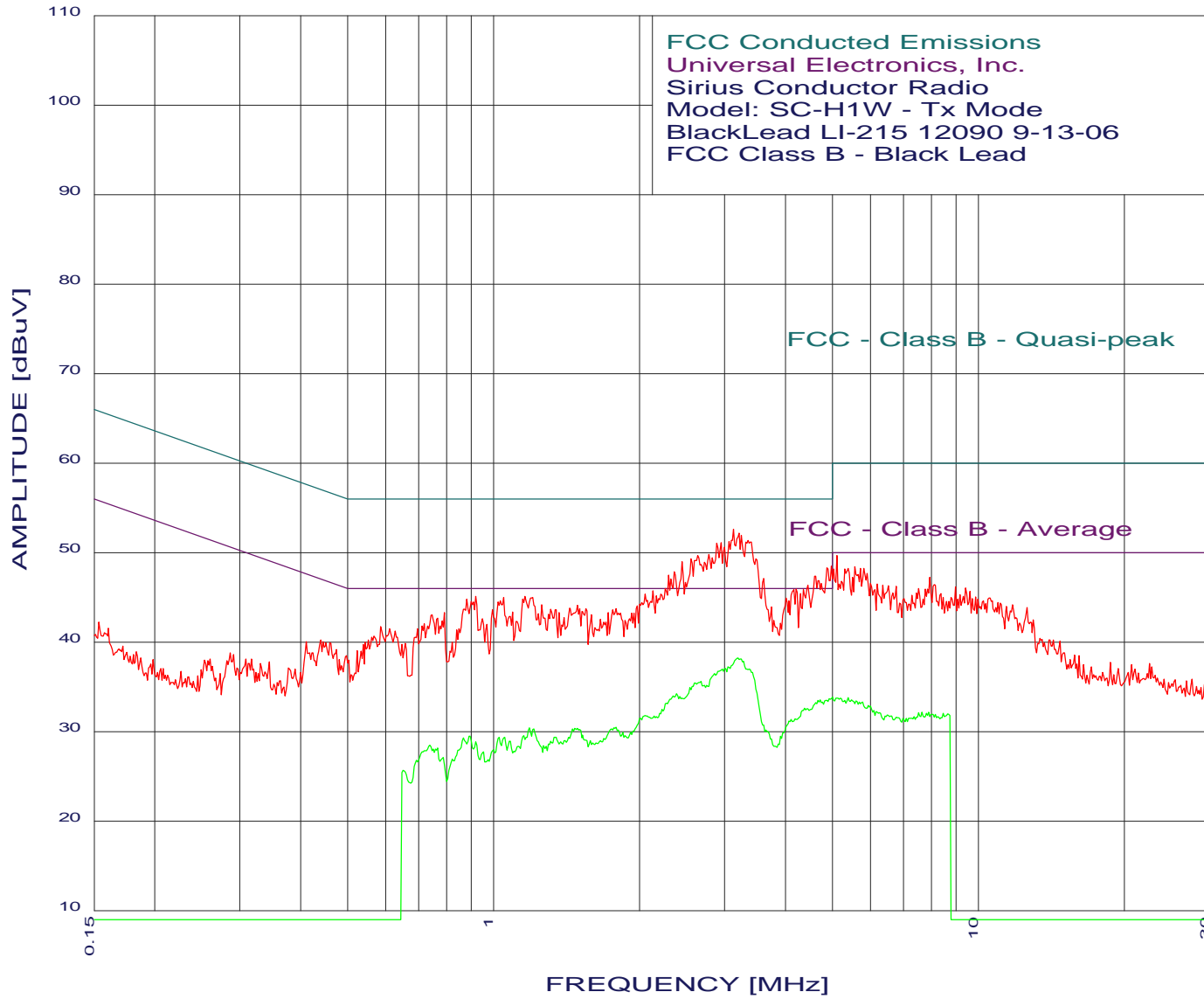
DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

9/19/2006 14:37:00



COMPATIBLE
ELECTRONICS





**COMPATIBLE
ELECTRONICS**

9/19/2006 14:37:00

Universal Electronics, Inc.
 Sirius Conductor Radio
 Model: SC-H1W - Tx Mode
 FCC Class B - Black Lead
 TEST ENGINEER : Kyle Fujimoto

 48 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak
 Peak# Freq(MHz) Amp(dBuV) Limit(dB) Delta(dB)

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.124	52.62	46.00	6.62*
2	3.209	52.13	46.00	6.13*
3	3.243	51.93	46.00	5.93*
4	3.346	51.34	46.00	5.34*
5	2.948	51.11	46.00	5.11*
6	2.885	51.00	46.00	5.00*
7	2.995	50.61	46.00	4.61*
8	2.781	49.79	46.00	3.79*
9	2.637	49.68	46.00	3.68*
10	2.554	49.27	46.00	3.27*
11	2.449	48.96	46.00	2.96*
12	4.980	48.46	46.00	2.46*
13	4.877	48.25	46.00	2.25*
14	2.358	47.85	46.00	1.85*
15	2.298	47.45	46.00	1.45*
16	4.624	47.34	46.00	1.34*
17	3.605	47.06	46.00	1.06*
18	2.322	47.05	46.00	1.05*
19	4.456	46.33	46.00	0.33*
20	4.204	45.92	46.00	-0.08*
21	4.159	45.81	46.00	-0.19*
22	2.134	45.73	46.00	-0.27*
23	5.114	49.67	50.00	-0.33*
24	4.294	45.42	46.00	-0.58*
25	2.055	45.33	46.00	-0.67*
26	1.160	45.08	46.00	-0.92*
27	0.919	45.06	46.00	-0.94*
28	1.204	44.98	46.00	-1.02*
29	1.049	44.97	46.00	-1.03*
30	4.008	44.90	46.00	-1.10*
31	0.881	44.76	46.00	-1.24*
32	4.071	44.61	46.00	-1.39*
33	5.567	48.41	50.00	-1.59*
34	5.806	48.23	50.00	-1.77*
35	5.715	48.22	50.00	-1.78*
36	5.390	48.19	50.00	-1.81*
37	1.256	44.18	46.00	-1.82*
38	5.031	48.16	50.00	-1.84*
39	1.488	44.09	46.00	-1.91*
40	1.981	44.02	46.00	-1.98*
41	3.741	43.88	46.00	-2.12*
42	1.790	43.71	46.00	-2.29*
43	1.552	43.70	46.00	-2.30*
44	1.311	43.68	46.00	-2.32*
45	0.995	43.57	46.00	-2.43*
46	1.094	43.37	46.00	-2.63*
47	1.726	43.31	46.00	-2.69*
48	1.367	43.29	46.00	-2.71*

 * Please See the Average Readings on the Next Page and on the Plot

**COMPATIBLE
ELECTRONICS**

9/19/2006 14:37:00

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Tx Mode
FCC Class B - Black Lead
TEST ENGINEER : Kyle Fujimoto

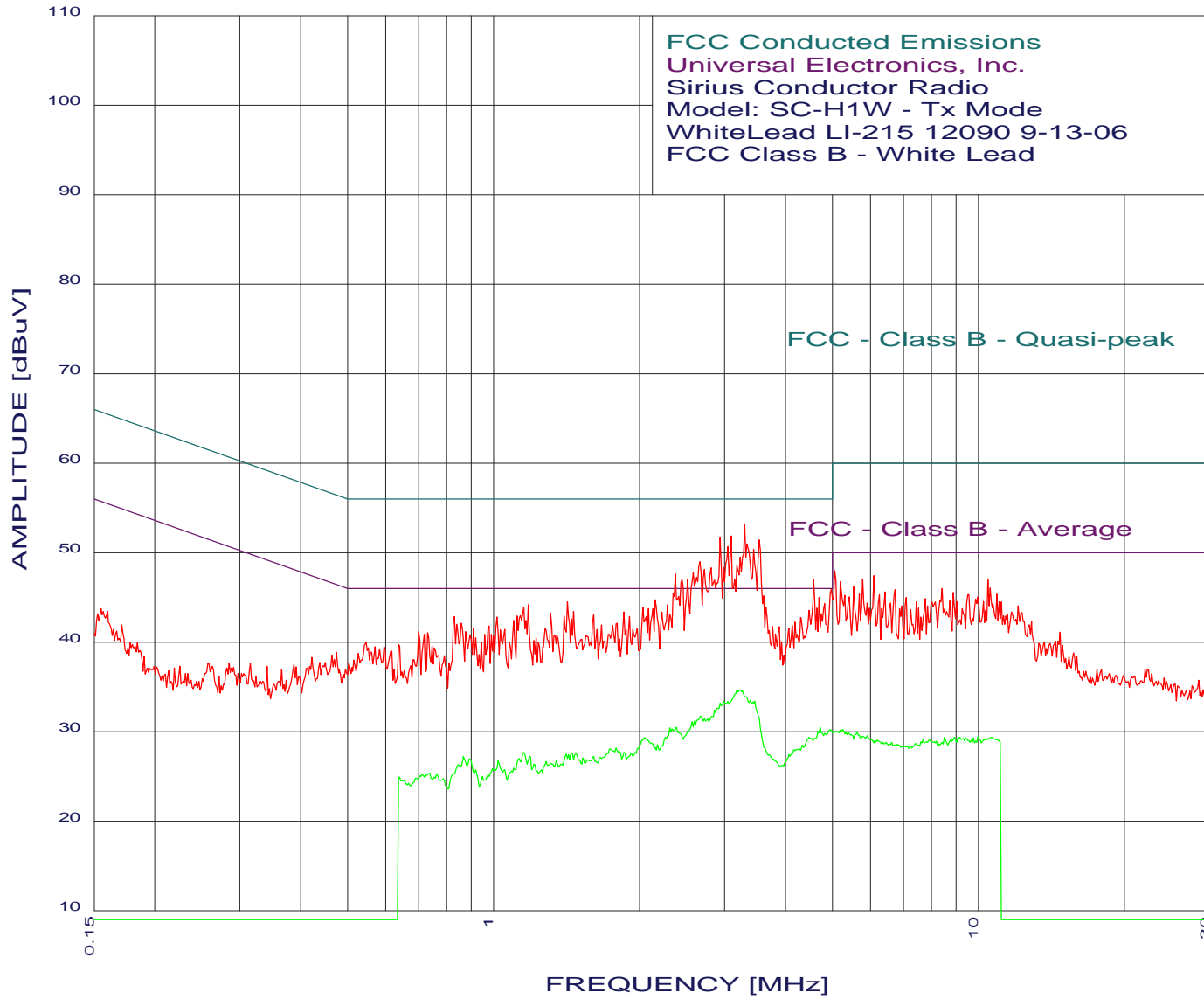
11 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.192	38.19	46.00	-7.81
2	1.790	30.44	46.00	-15.56
3	1.184	30.41	46.00	-15.59
4	1.472	30.35	46.00	-15.65
5	5.005	33.83	50.00	-16.17
6	0.895	29.49	46.00	-16.51
7	1.055	29.35	46.00	-16.65
8	1.083	28.92	46.00	-17.08
9	0.739	28.44	46.00	-17.56
10	7.898	32.17	50.00	-17.83
11	0.651	25.66	46.00	-20.34

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

9/19/2006 14:13:34



COMPATIBLE
ELECTRONICS



**COMPATIBLE
ELECTRONICS**

9/19/2006 14:13:34

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Tx Mode
FCC Class B - White Lead
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	limit(dB)	Delta(dB)
1	3.294	53.16	46.00	7.16*
2	3.091	51.84	46.00	5.84*
3	2.932	51.72	46.00	5.72*
4	3.529	51.38	46.00	5.38*
5	3.328	50.96	46.00	4.96*
6	3.043	50.63	46.00	4.63*
7	3.438	50.37	46.00	4.37*
8	3.226	49.45	46.00	3.45*
9	2.665	49.00	46.00	3.00*
10	3.175	48.55	46.00	2.55*
11	2.979	48.33	46.00	2.33*
12	2.811	48.31	46.00	2.31*
13	2.722	48.10	46.00	2.10*
14	2.582	47.69	46.00	1.69*
15	2.371	47.57	46.00	1.57*
16	4.576	47.06	46.00	1.06*
17	2.514	46.98	46.00	0.98*
18	2.449	46.98	46.00	0.98*
19	3.141	46.94	46.00	0.94*
20	4.980	45.89	46.00	-0.11*
21	4.696	44.97	46.00	-1.03*
22	2.156	44.75	46.00	-1.25*
23	1.419	44.50	46.00	-1.50*
24	4.825	44.28	46.00	-1.72*
25	1.178	44.18	46.00	-1.82*
26	2.286	44.16	46.00	-1.84*
27	5.059	47.99	50.00	-2.01*
28	3.644	43.89	46.00	-2.11*
29	1.154	43.88	46.00	-2.12*
30	2.034	43.84	46.00	-2.16*
31	4.648	43.77	46.00	-2.23*
32	2.134	43.75	46.00	-2.25*
33	2.089	43.74	46.00	-2.26*
34	4.480	43.56	46.00	-2.44*
35	1.464	43.40	46.00	-2.60*
36	6.091	47.38	50.00	-2.62*
37	2.226	43.36	46.00	-2.64*
38	1.859	43.33	46.00	-2.67*
39	1.311	43.19	46.00	-2.81*
40	2.310	43.06	46.00	-2.94*
41	5.774	47.05	50.00	-2.95*
42	1.611	43.01	46.00	-2.99*
43	10.458	46.94	50.00	-3.06*
44	1.397	42.90	46.00	-3.10*
45	1.118	42.88	46.00	-3.12*
46	0.831	42.86	46.00	-3.14*
47	1.908	42.83	46.00	-3.17*
48	1.016	42.77	46.00	-3.23*

* Please See the Average Readings on the Next Page and on the Plot

**COMPATIBLE
ELECTRONICS**

9/19/2006 14:13:34

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Tx Mode
FCC Class B - White Lead
TEST ENGINEER : Kyle Fujimoto

12 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Average

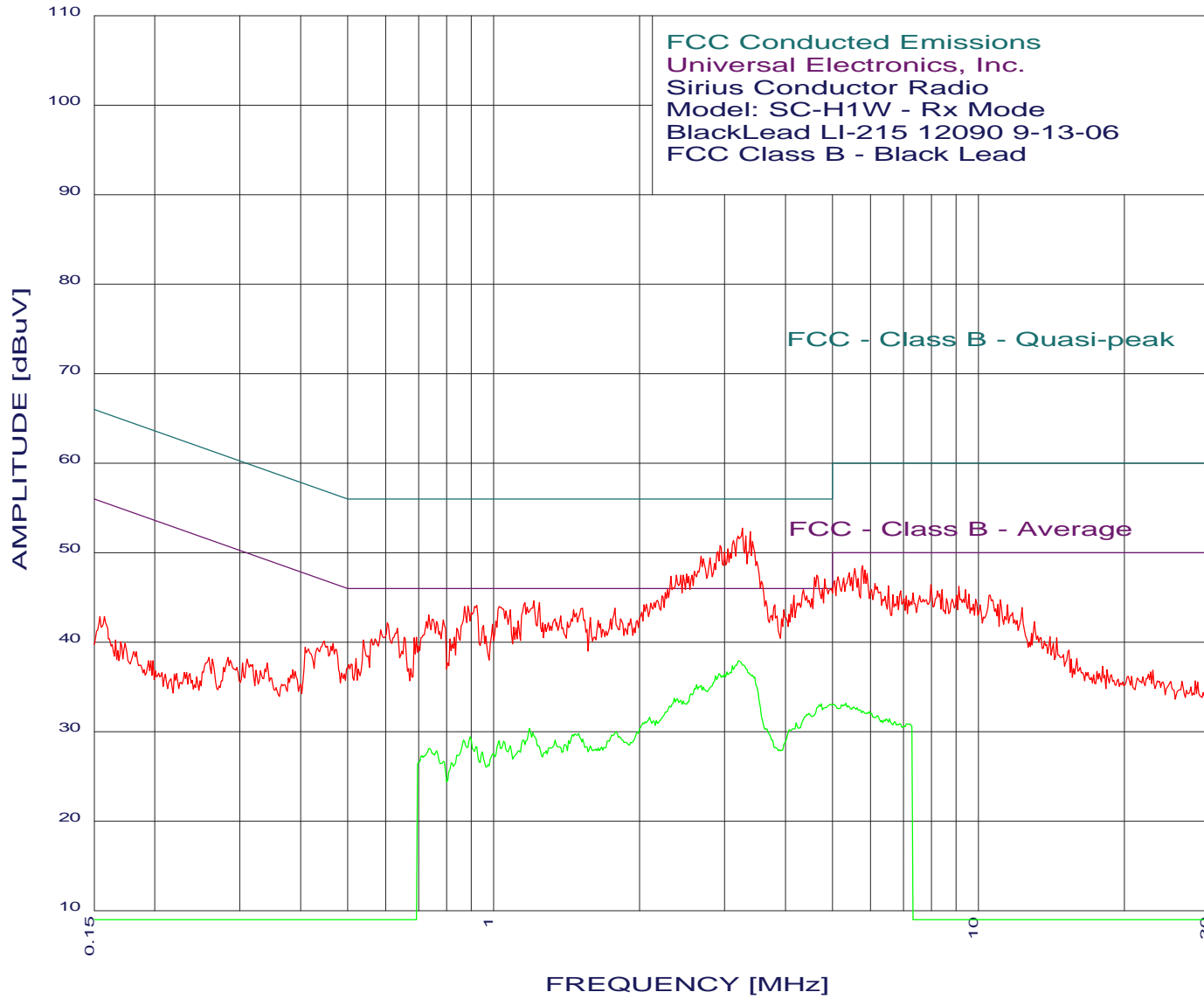
Peak#	Freq(MHz)	Amp(dBuV)	limit(dB)	Delta(dB)
1	3.175	34.68	46.00	-11.32
2	4.722	30.49	46.00	-15.51
3	2.384	30.47	46.00	-15.53
4	2.055	29.27	46.00	-16.73
5	1.790	28.16	46.00	-17.84
6	1.154	27.67	46.00	-18.33
7	1.449	27.60	46.00	-18.40
8	0.867	27.22	46.00	-18.78
9	1.021	26.72	46.00	-19.28
10	9.967	29.41	50.00	-20.59
11	0.739	25.37	46.00	-20.63
12	0.641	24.92	46.00	-21.08

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

9/19/2006 13:34:16



COMPATIBLE
ELECTRONICS





**COMPATIBLE
ELECTRONICS**

9/19/2006 13:34:16

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Rx Mode
FCC Class B - Black Lead
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	limit(dB)	Delta(dB)
1	3.260	52.73	46.00	6.73*
2	3.383	52.34	46.00	6.34*
3	3.311	51.84	46.00	5.84*
4	3.124	51.32	46.00	5.32*
5	3.419	51.25	46.00	5.25*
6	2.932	50.81	46.00	4.81*
7	3.043	50.41	46.00	4.41*
8	2.900	50.10	46.00	4.10*
9	2.995	50.01	46.00	4.01*
10	2.679	49.58	46.00	3.58*
11	2.796	49.39	46.00	3.39*
12	2.501	47.57	46.00	1.57*
13	2.568	47.47	46.00	1.47*
14	2.462	47.46	46.00	1.46*
15	2.436	47.46	46.00	1.46*
16	2.384	47.46	46.00	1.46*
17	4.648	47.44	46.00	1.44*
18	2.322	47.35	46.00	1.35*
19	4.600	47.24	46.00	1.24*
20	4.825	47.05	46.00	1.05*
21	4.774	45.85	46.00	-0.15*
22	4.361	45.82	46.00	-0.18*
23	4.159	45.21	46.00	-0.79*
24	2.226	45.14	46.00	-0.86*
25	2.179	44.64	46.00	-1.36*
26	1.210	44.58	46.00	-1.42*
27	5.774	48.52	50.00	-1.48*
28	1.243	44.38	46.00	-1.62*
29	1.160	44.38	46.00	-1.62*
30	2.066	44.23	46.00	-1.77*
31	4.114	44.21	46.00	-1.79*
32	5.567	48.21	50.00	-1.79*
33	3.800	44.18	46.00	-1.82*
34	0.924	44.06	46.00	-1.94*
35	0.885	44.06	46.00	-1.94*
36	5.838	48.03	50.00	-1.97*
37	1.027	43.97	46.00	-2.03*
38	0.872	43.96	46.00	-2.04*
39	1.781	43.81	46.00	-2.19*
40	1.528	43.80	46.00	-2.20*
41	5.420	47.69	50.00	-2.31*
42	5.901	47.63	50.00	-2.37*
43	3.966	43.60	46.00	-2.40*
44	1.464	43.59	46.00	-2.41*
45	1.083	43.57	46.00	-2.43*
46	5.142	47.27	50.00	-2.73*
47	5.280	47.18	50.00	-2.82*
48	5.656	47.11	50.00	-2.89*

* Please See the Average Readings on the Next Page and on the Plot



**COMPATIBLE
ELECTRONICS**

9/19/2006 13:34:16

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Rx Mode
FCC Class B - Black Lead
TEST ENGINEER : Kyle Fujimoto

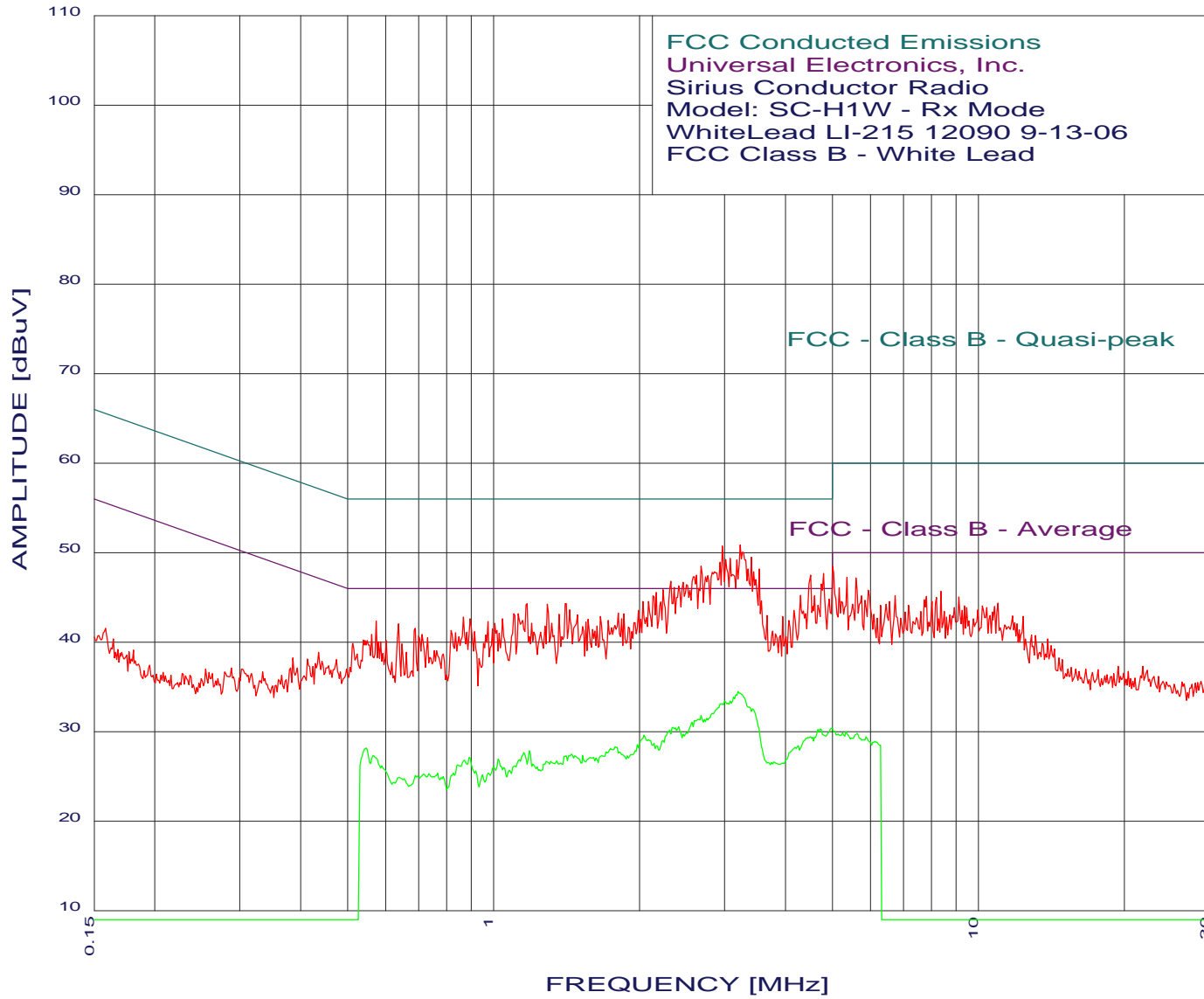
10 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	limit(dB)	Delta(dB)
1	3.209	37.88	46.00	-8.12
2	1.184	30.34	46.00	-15.66
3	1.790	29.95	46.00	-16.05
4	1.496	29.76	46.00	-16.24
5	0.895	29.38	46.00	-16.62
6	5.335	33.19	50.00	-16.81
7	1.338	29.02	46.00	-16.98
8	1.027	29.00	46.00	-17.00
9	0.739	28.09	46.00	-17.91
10	0.948	27.71	46.00	-18.29

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

9/19/2006 13:46:40



COMPATIBLE
ELECTRONICS



**COMPATIBLE
ELECTRONICS**

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Rx Mode
FCC Class B - White Lead
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	limit(dB)	Delta(dB)
1	3.226	50.85	46.00	4.85*
2	2.963	50.73	46.00	4.73*
3	3.401	49.47	46.00	3.47*
4	3.075	49.34	46.00	3.34*
5	3.011	49.23	46.00	3.23*
6	3.175	49.15	46.00	3.15*
7	2.932	48.92	46.00	2.92*
8	2.679	48.50	46.00	2.50*
9	3.529	48.18	46.00	2.18*
10	3.346	48.16	46.00	2.16*
11	3.438	47.87	46.00	1.87*
12	4.799	47.68	46.00	1.68*
13	2.624	47.49	46.00	1.49*
14	4.504	47.46	46.00	1.46*
15	2.766	47.41	46.00	1.41*
16	2.322	46.76	46.00	0.76*
17	2.462	46.68	46.00	0.68*
18	2.501	46.38	46.00	0.38*
19	2.410	46.27	46.00	0.27*
20	2.358	46.07	46.00	0.07*
21	2.238	45.86	46.00	-0.14*
22	2.168	45.55	46.00	-0.45*
23	4.294	45.25	46.00	-0.75*
24	4.600	45.16	46.00	-0.84*
25	2.134	45.15	46.00	-0.85*
26	4.928	44.78	46.00	-1.22*
27	3.565	44.58	46.00	-1.42*
28	2.089	44.54	46.00	-1.46*
29	2.034	44.54	46.00	-1.46*
30	5.005	48.49	50.00	-1.51*
31	2.214	44.45	46.00	-1.55*
32	1.412	44.30	46.00	-1.70*
33	1.172	44.28	46.00	-1.72*
34	1.290	44.19	46.00	-1.81*
35	4.672	44.07	46.00	-1.93*
36	1.434	43.60	46.00	-2.40*
37	4.159	43.54	46.00	-2.46*
38	1.992	43.53	46.00	-2.47*
39	1.810	43.22	46.00	-2.78*
40	5.362	47.22	50.00	-2.78*
41	1.124	43.18	46.00	-2.82*
42	1.100	43.18	46.00	-2.82*
43	5.597	47.14	50.00	-2.86*
44	1.859	43.13	46.00	-2.87*
45	1.367	43.09	46.00	-2.91*
46	1.488	43.00	46.00	-3.00*
47	3.663	42.99	46.00	-3.01*
48	3.945	42.82	46.00	-3.18*

*Please See the Average Readings on the Next Page and on the Plot



**COMPATIBLE
ELECTRONICS**

9/19/2006 13:46:40

Universal Electronics, Inc.
Sirius Conductor Radio
Model: SC-H1W - Rx Mode
FCC Class B - White Lead
TEST ENGINEER : Kyle Fujimoto

11 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.192	34.47	46.00	-11.53
2	2.410	30.50	46.00	-15.50
3	2.044	29.57	46.00	-16.43
4	1.781	28.25	46.00	-17.75
5	0.547	28.17	46.00	-17.83
6	1.184	27.81	46.00	-18.19
7	1.154	27.67	46.00	-18.33
8	0.890	27.08	46.00	-18.92
9	1.021	26.88	46.00	-19.12
10	5.005	30.34	50.00	-19.66
11	0.767	25.37	46.00	-20.63
