

**FCC PART 15 SUBPART B and C
TEST REPORT***for***DIRECTV RC71 RF4CE 2012
MODEL: URC-3004BC0-X-R**

Prepared for

UNIVERSAL ELECTRONICS, INC.
201 EAST SANDPOINTE AVENUE, 8TH FLOOR
SANTA ANA, CALIFORNIA 92707

Prepared by: _____

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JAMES ROSS

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

DATE: SEPTEMBER 6, 2012

	REPORT	APPENDICES					TOTAL
	BODY	A	B	C	D	E	
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1	Conducted Emissions Test Setup
2	Plot Map And Layout of Radiated Test Site – 3 Meters

GENERAL REPORT SUMMARY

Compatible Electronics Inc. generates this electromagnetic emission test report, 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: DirectV RC71 RF4CE 2012
Model: URC-3004BC0-X-R
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.
201 East Sandpointe Avenue, 8th Floor
Santa Ana, California 92707

Manufacturer: Gemstar Technology China
Shi Guang Road
Zhong Cun Town
Panyu, Guangdong, Province, China 511495

Test Date(s): June 27, 2012

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

Test Procedure: ANSI C63.4

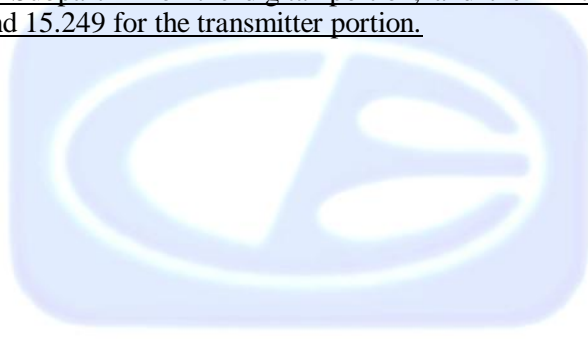
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions 150 kHz to 30 MHz	This test was not performed because the EUT operates on battery power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions 10 kHz to 25000 MHz (Transmitter and Digital Portion)	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the DirectV RC71 RF4CE 2012, Model: URC-3004BC0-X-R. The Emissions 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 Emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

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 Senior Electrical Core Engineer

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer
James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

2.5 Disposition of the Test Sample

The test sample has not yet been returned as of the date of this report.

2.6 Abbreviations and Acronyms

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

FCC	Federal Communications Commission
RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
ITE	Information Technology Equipment
LISN	Line Impedance Stabilization Network
NVLAP	National Voluntary Laboratory Accreditation Program
CFR	Code of Federal Regulations
N/A	Not Applicable
Ltd.	Limited
Inc.	Incorporated
NCR	No Calibration Required
R&D	Research and Development
Rx	Receive / Receiver
Tx	Transmit / Transmitter

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4: 2009	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 – Emissions

The DirectV RC71 RF4CE 2012, Model: URC-3004BC0-X-R (EUT) was tested as a stand alone unit. The EUT was continuously transmitting. The EUT had a special program that allowed the low, middle, or high channels to be tested by preselecting the channel and amplitude to be tested. The EUT was tested in three orthogonal axis.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

4.1.1 Cable Construction and Termination

There were 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	SERIAL NUMBER	FCC ID
DIRECTV RC71 RF4CE 2012 (EUT)	UNIVERSAL ELECTRONICS	URC-3004BC0-X-R	N/A	MG33004

5.2 Emissions 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
Spectrum Analyzer – Main Section	Hewlett Packard	8568B	2517A01563	May 30, 2012	May 30, 2013
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A15285	May 30, 2012	May 30, 2013
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 30, 2012	May 30, 2013
EMI Receiver	Rohde & Schwarz	ESIB40	100194	November 19, 2010	November 19, 2012
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Loop Antenna	Com-Power	AL-130	17089	January 21, 2011	January 21, 2013
Biconical Antenna	Com Power	AB-900	43028	May 24, 2012	May 24, 2013
Log Periodic Antenna	Com Power	AL-100	16252	May 24, 2012	May 24, 2013
Horn Antenna	Com-Power	AH-118	071175	February 29, 2012	March 1, 2014
Horn Antenna	Com-Power	AH826	0071957	N/A	N/A
Preamplifier	Com-Power	PA-102	1017	December 28, 2011	December 28, 2012
Microwave Preamplifier	Com-Power	PA-118	181656	December 28, 2011	December 28, 2012
Microwave Preamplifier	Com-Power	PA-840	711013	May 17, 2012	May 17, 2013
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 7.1.2 of this report for Emissions 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 not grounded.

6.3 Facility Environmental Characteristics

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

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 Conducted Emissions Test

The measurement receiver was used as a measuring meter. The data was collected with the measurement receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the measurement receiver's input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the measurement receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

This test was not performed because the EUT operates on battery power only and cannot be plugged into the AC public mains.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer, along with the quasi-peak adapter, and EMI Receiver were used as a measuring meter. 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, the Com-Power Microwave Preamplifier Model: PA-118 was used for frequencies from 1 GHz to 18 GHz, and the Com-Power Microwave Preamplifier Model: PA-840 were used for frequencies above 18 GHz. The spectrum analyzer and EMI Receiver were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer and EMI receiver records the highest measured reading over the sweeps.

The quasi-peak function was used only for those readings which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged by a "duty cycle correction factor", derived from $20 \log(\text{dwell time} / 100 \text{ ms})$.

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 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 25 GHz	1 MHz	Horn Antennas

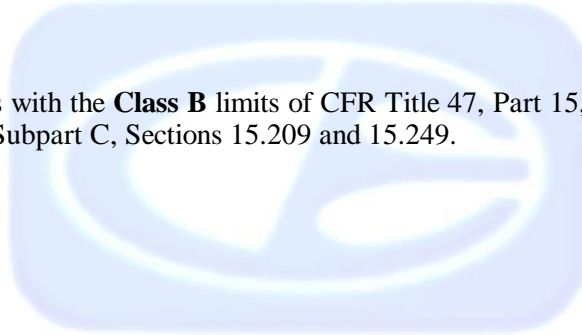
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. 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 by the Radiated Emission Manual Test software. 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 gun sight 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.

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 from 30 MHz to 25 GHz to obtain the final test data.

Test Results:

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



7.1.3 RF Emissions Test ResultsTable 1.0 RADIATED EMISSION RESULTS
DirectV RC71 RF4CE 2012, Model: URC-3004BC0-X-R

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
4900 (V) (Z-Axis)	50.4491 (A)	54.00	-3.5509
4950 (V) (Z-Axis)	50.0991 (A)	54.00	-3.9009
4900 (H) (X-Axis)	49.6691 (A)	54.00	-4.3309
7350 (H) (X-Axis)	49.6091 (A)	54.00	-4.3909
4850 (H) (X-Axis)	49.2791 (A)	54.00	-4.7209
4850 (H) (Y-Axis)	49.0791 (A)	54.00	-4.9209

Notes:

- * The complete emissions data is given in Appendix E of this report.
- A Average Reading
- V Vertical
- H Horizontal

8. CONCLUSIONS

The DirectV RC71 RF4CE 2012, Model: URC-3004BC0-X-R (EUT), as tested, 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 ACCREDITATIONS AND 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 ACCREDITATIONS AND RECOGNITIONS

NVLAP LAB CODES 200063-0,
200528-0, 200527-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

NVLAP listing links[Agoura Division](#) / [Brea Division](#) / [Silverado/Lake Forest Division](#)

.Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfillment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."

ANSI listing [CETCB](#)

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).

US/EU MRA list [NIST MRA site](#)

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).

APEC MRA list [NIST MRA site](#)

We are also listed for IT products by the following country/agency:

VCCI Support member: Please visit http://www.vcci.jp/vcci_e/

FCC Listing, from FCC OET site

[FCC test lab search](https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm) <https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm>

Compatible Electronics IC listing can be found at:

<http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home>

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

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 and/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 during the testing.





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

DirectV RC71 RF4CE 2012
Model: URC-3004BC0-X-R
S/N: N/A

ALSO APPROVED UNDER THIS REPORT:

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

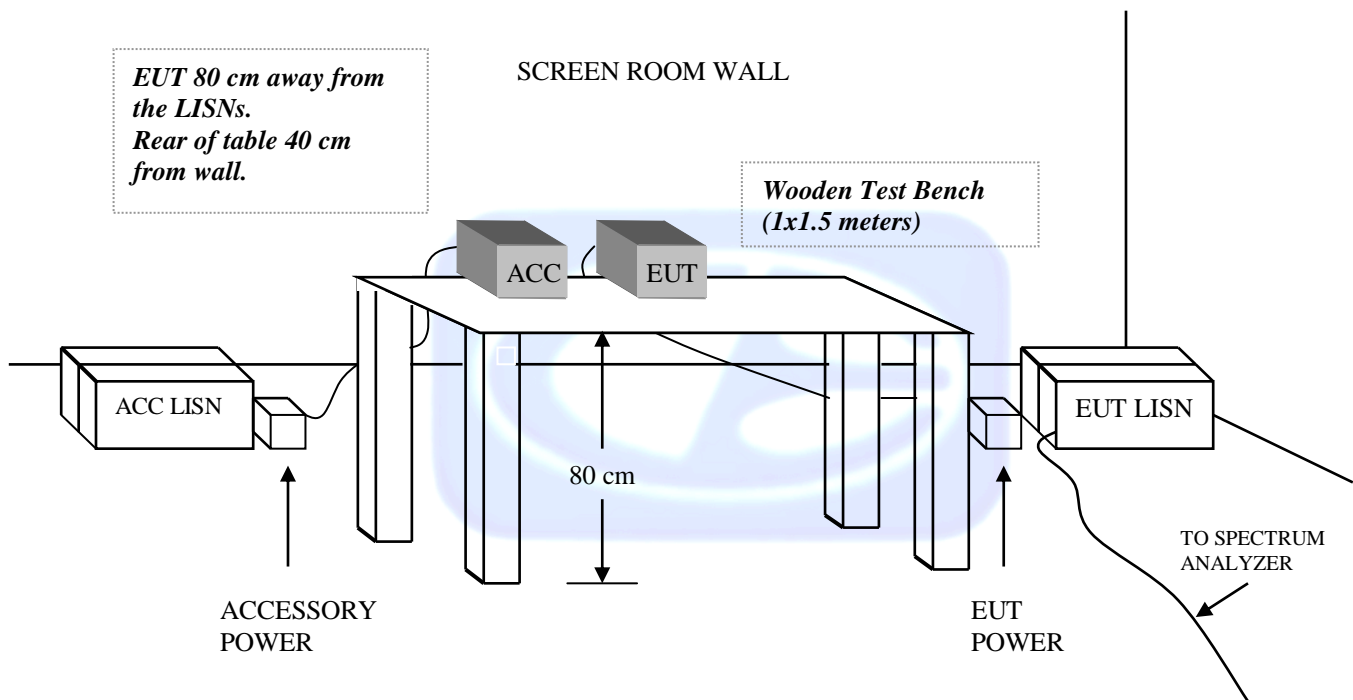
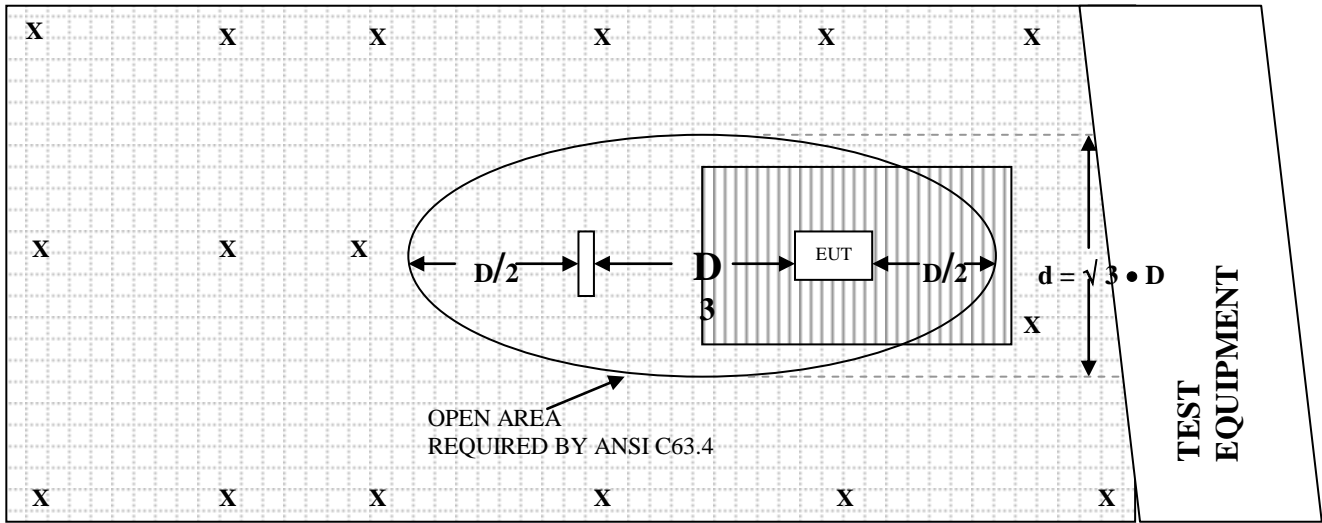


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS

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 AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: JANUARY 21, 2011

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.9	9.6
0.01	-41.79	9.71
0.02	-41.43	10.07
0.05	-41.53	9.97
0.07	-41.47	10.03
0.1	-41.44	10.06
0.2	-41.61	9.89
0.3	-41.62	9.88
0.5	-41.66	9.84
0.7	-41.48	10.02
1	-41.13	10.37
2	-40.89	10.61
3	-41.00	10.50
4	-41.14	10.36
5	-41.02	10.48
10	-40.69	10.82
15	-40.41	11.09
20	-41.07	10.43
25	-42.10	9.40
30	-41.15	10.35

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 43028

CALIBRATION DATE: MAY 24, 2012

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.80	120	13.20
35	11.20	125	13.30
40	11.90	140	11.60
45	10.70	150	11.80
50	11.40	160	12.70
60	10.30	175	14.80
70	7.60	180	15.70
80	5.70	200	15.80
90	7.90	250	14.80
100	10.7	300	19.80

COM-POWER AL-100**LOG PERIODIC ANTENNA**

S/N: 16252

CALIBRATION DATE: MAY 24, 2012

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.00	700	20.30
350	13.20	750	20.80
400	14.50	800	21.00
450	15.40	850	23.70
500	15.80	900	21.70
550	16.60	950	24.20
600	18.90	1000	24.30
650	19.10		

COM POWER AH-118**HORN ANTENNA**

S/N: 071175

CALIBRATION DATE: FEBRUARY 29, 2012

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	23.6	10.0	37.7
1.5	22.0	10.5	38.4
2.0	28.7	11.0	38.0
2.5	29.3	11.5	38.2
3.0	30.6	12.0	39.0
3.5	30.4	12.5	42.4
4.0	31.1	13.0	40.8
4.5	33.4	13.5	40.0
5.0	35.3	14.0	39.7
5.5	35.1	14.5	43.5
6.0	36.9	15.0	42.7
6.5	37.4	15.5	39.7
7.0	37.6	16.0	39.2
7.5	36.2	16.5	39.7
8.0	38.4	17.0	42.2
8.5	39.3	17.5	47.6
9.0	37.4	18.0	51.2
9.5	38.0		

COM-POWER AH826**HORN ANTENNA**

S/N: 71957

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7

COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: DECEMBER 28, 2011

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.54	300	38.45
40	38.53	350	38.47
50	38.57	400	38.36
60	38.54	450	38.07
70	38.54	500	38.31
80	38.54	550	38.37
90	38.54	600	38.28
100	38.53	650	38.19
125	38.51	700	38.24
150	38.43	750	37.88
175	38.56	800	37.94
200	38.50	850	37.65
225	38.46	900	37.50
250	38.57	950	37.47
275	38.45	1000	36.86

COM-POWER PA-118**PREAMPLIFIER**

S/N: 181656

CALIBRATION DATE: DECEMBER 28, 2011

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	23.22	10.0	24.66
1.5	26.31	10.5	25.22
2.0	27.40	11.0	25.17
2.5	26.52	11.5	24.47
3.0	27.35	12.0	25.29
3.5	29.02	12.5	26.03
4.0	28.51	13.0	24.11
4.5	26.62	13.5	24.28
5.0	27.13	14.0	25.81
5.5	27.29	14.5	25.45
6.0	26.72	15.0	25.36
6.5	25.62	15.5	26.76
7.0	25.25	16.0	28.09
7.5	24.23	16.5	23.23
8.0	23.72	17.0	26.58
8.5	24.91	17.5	27.45
9.0	25.73	18.0	27.53
9.5	24.79		

COM-POWER PA-840**MICROWAVE PREAMPLIFIER**

S/N: 711013

CALIBRATION DATE: MAY 17, 2012

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.81	31.0	25.77
19.0	24.57	31.5	25.36
20.0	23.46	32.0	25.15
21.0	22.51	32.5	25.13
22.0	23.85	33.0	25.52
23.0	23.31	33.5	25.24
24.0	24.44	34.0	25.08
25.0	25.42	34.5	25.27
26.0	25.71	35.0	23.99
26.5	25.66	35.5	24.67
27.0	25.84	36.5	24.80
27.5	25.29	37.0	26.27
28.0	25.46	37.5	24.86
28.5	25.58	38.0	24.64
29.0	26.16	38.5	23.46
29.5	26.14	39.0	21.29
30.0	26.01	39.5	20.83
30.5	25.67	40.0	19.96



FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
DIRECTV RC71 RF4CE 2012
MODEL: URC-3004BC0-X-R
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.
DIRECTV RC71 RF4CE 2012
MODEL: URC-3004BC0-X-R
FCC SUBPART B AND C – RADIATED EMISSIONS

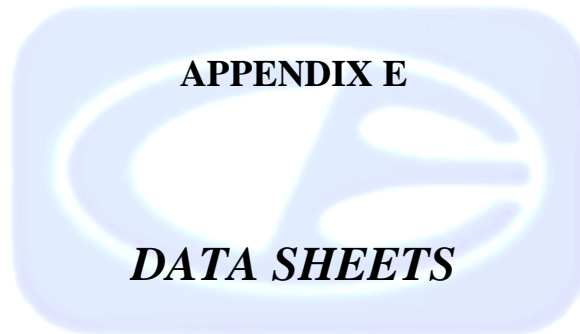
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

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





RADIATED EMISSIONS

DATA SHEETS

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	95.77	V	114	-18.23	Peak	3	180	
2425	78.5091	V	94	-15.491	Avg	3	180	
4850	62.24	V	74	-11.76	Peak	1.25	155	
4850	44.9791	V	54	-9.0209	Avg	1.25	155	
7275	58.98	V	74	-15.02	Peak	1.25	165	
7275	41.7191	V	54	-12.281	Avg	1.25	165	
9700	53.85	V	74	-20.15	Peak	1.25	165	
9700	36.5891	V	54	-17.411	Avg	1.25	165	
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	100.57	H	114	-13.43	Peak	1.25	155	
2425	83.3091	H	94	-10.691	Avg	1.25	155	
4850	66.54	H	74	-7.46	Peak	1.25	155	
4850	49.2791	H	54	-4.7209	Avg	1.25	155	
7275	65.85	H	74	-8.15	Peak	1.25	165	
7275	48.5891	H	54	-5.4109	Avg	1.25	165	
9700								No Emission Detected
9700								
12125								No Emission Detected
12125								
14550								No Emission Detected
14550								
16975								No Emission Detected
16975								
19400								No Emission Detected
19400								
21825								No Emission Detected
21825								
24250								No Emission Detected
24250								

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	98.33	V	114	-15.67	Peak	1.25	0	
2425	81.0691	V	94	-12.931	Avg	1.25	0	
4850	63.5	V	74	-10.5	Peak	1.25	155	
4850	46.2391	V	54	-7.7609	Avg	1.25	155	
7275	60.19	V	74	-13.81	Peak	1.25	165	
7275	42.9291	V	54	-11.071	Avg	1.25	165	
9700	59.43	V	74	-14.57	Peak	1.25	165	
9700	42.1691	V	54	-11.831	Avg	1.25	165	
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	94.71	H	114	-19.29	Peak	1.25	155	
2425	77.4491	H	94	-16.551	Avg	1.25	155	
4850	66.34	H	74	-7.66	Peak	1.25	165	
4850	49.0791	H	54	-4.9209	Avg	1.25	165	
7275	60.39	H	74	-13.61	Peak	1.35	175	
7275	43.1291	H	54	-10.871	Avg	1.35	175	
9700	56.11	H	74	-17.89	Peak	1.35	175	
9700	38.8491	H	54	-15.151	Avg	1.35	175	
12125								No Emission Detected
12125								
14550								No Emission Detected
14550								
16975								No Emission Detected
16975								
19400								No Emission Detected
19400								
21825								No Emission Detected
21825								
24250								No Emission Detected
24250								

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	95.91	V	114	-18.09	Peak	1.25	155	
2425	78.6491	V	94	-15.351	Avg	1.25	155	
4850	65.65	V	74	-8.35	Peak	1.25	135	
4850	48.3891	V	54	-5.6109	Avg	1.25	135	
7275	60.19	V	74	-13.81	Peak	1.25	155	
7275	42.9291	V	54	-11.071	Avg	1.25	155	
9700	58.66	V	74	-15.34	Peak	1.25	165	
9700	41.3991	V	54	-12.601	Avg	1.25	165	
12125								No Emission Detected
12125								
14550								No Emission Detected
14550								
16975								No Emission Detected
16975								
19400								No Emission Detected
19400								
21825								No Emission Detected
21825								
24250								No Emission Detected
24250								

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Low Channel - 13.70742% Duty Cycle
 Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	96.77	H	114	-17.23	Peak	1.25	165	
2425	79.5091	H	94	-14.491	Avg	1.25	165	
4850	62.83	H	74	-11.17	Peak	1.25	175	
4850	45.5691	H	54	-8.4309	Avg	1.25	175	
7275	61.39	H	74	-12.61	Peak	1.35	185	
7275	44.1291	H	54	-9.8709	Avg	1.35	185	
9700	57.35	H	74	-16.65	Peak	1.25	165	
9700	40.0891	H	54	-13.911	Avg	1.25	165	
12125								No Emission Detected
14550								No Emission Detected
16975								No Emission Detected
19400								No Emission Detected
21825								No Emission Detected
24250								No Emission Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	93.11	V	114	-20.89	Peak	1.25	155	
2450	75.8491	V	94	-18.151	Avg	1.25	155	
4900	61.36	V	74	-12.64	Peak	1.25	155	
4900	44.0991	V	54	-9.9009	Avg	1.25	155	
7350	62.61	V	74	-11.39	Peak	1.25	165	
7350	45.3491	V	54	-8.6509	Avg	1.25	165	
9800	56.13	V	74	-17.87	Peak	1.25	165	
9800	38.8691	V	54	-15.131	Avg	1.25	165	
12250								No Emission Detected
14700								No Emission Detected
17150								No Emission Detected
19600								No Emission Detected
22050								No Emission Detected
24500								No Emission Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	100.04	H	114	-13.96	Peak	1.25	155	
2450	82.7791	H	94	-11.221	Avg	1.25	155	
4900	66.93	H	74	-7.07	Peak	1.25	165	
4900	49.6691	H	54	-4.3309	Avg	1.25	165	
7350	66.87	H	74	-7.13	Peak	1.35	155	
7350	49.6091	H	54	-4.3909	Avg	1.35	155	
9800	60.58	H	74	-13.42	Peak	1.35	155	
9800	43.3191	H	54	-10.681	Avg	1.35	155	
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle

Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	96.94	V	114	-17.06	Peak	1.25	155	
2450	79.6791	V	94	-14.321	Avg	1.25	155	
4900	63.12	V	74	-10.88	Peak	1.25	165	
4900	45.8591	V	54	-8.1409	Avg	1.25	165	
7350	62.3	V	74	-11.7	Peak	1.25	155	
7350	45.0391	V	54	-8.9609	Avg	1.25	155	
9800	59.49	V	74	-14.51	Peak	1.25	155	
9800	42.2291	V	54	-11.771	Avg	1.25	155	
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle
 Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	95.04	H	114	-18.96	Peak	1.25	155	
2450	77.7791	H	94	-16.221	Avg	1.25	155	
4900	66.18	H	74	-7.82	Peak	1.25	165	
4900	48.9191	H	54	-5.0809	Avg	1.25	165	
7350	64.13	H	74	-9.87	Peak	1.25	175	
7350	46.8691	H	54	-7.1309	Avg	1.25	175	
9800	56.62	H	74	-17.38	Peak	1.25	175	
9800	39.3591	H	54	-14.641	Avg	1.25	175	
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	96.13	V	114	-17.87	Peak	1.25	225	
2450	78.8691	V	94	-15.131	Avg	1.25	225	
4900	67.71	V	74	-6.29	Peak	1.25	265	
4900	50.4491	V	54	-3.5509	Avg	1.25	265	
7350	65.12	V	74	-8.88	Peak	1.25	275	
7350	47.8591	V	54	-6.1409	Avg	1.25	275	
9800	60.49	V	74	-13.51	Peak	1.35	285	
9800	43.2291	V	54	-10.771	Avg	1.35	285	
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

Middle Channel - 13.70742% Duty Cycle
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	94.21	H	114	-19.79	Peak	1.25	155	
2450	76.9491	H	94	-17.051	Avg	1.25	155	
4900	63.21	H	74	-10.79	Peak	1.25	165	
4900	45.9491	H	54	-8.0509	Avg	1.25	165	
7350	58.61	H	74	-15.39	Peak	1.25	175	
7350	41.3491	H	54	-12.651	Avg	1.25	175	
9800	57.34	H	74	-16.66	Peak	1.25	175	
9800	40.0791	H	54	-13.921	Avg	1.25	175	
12250								No Emission Detected
14700								No Emission Detected
17150								No Emission Detected
19600								No Emission Detected
22050								No Emission Detected
24500								No Emission Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	92.65	V	114	-21.35	Peak	1.25	155	
2475	75.3891	V	94	-18.611	Avg	1.25	155	
4950	61.87	V	74	-12.13	Peak	1.25	165	
4950	44.6091	V	54	-9.3909	Avg	1.25	165	
7425	60.94	V	74	-13.06	Peak	1.25	175	
7425	43.6791	V	54	-10.321	Avg	1.25	175	
9900	55.41	V	74	-18.59	Peak	1.25	185	
9900	38.1491	V	54	-15.851	Avg	1.25	185	
12375								No Emission Detected
12375								
14850								No Emission Detected
14850								
17325								No Emission Detected
17325								
19800								No Emission Detected
19800								
22275								No Emission Detected
22275								
24750								No Emission Detected
24750								

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
 X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	98.01	H	114	-15.99	Peak	1.25	155	
2475	80.7491	H	94	-13.251	Avg	1.25	155	
4950	62.31	H	74	-11.69	Peak	1.25	155	
4950	45.0491	H	54	-8.9509	Avg	1.25	155	
7425	63.97	H	74	-10.03	Peak	1.25	155	
7425	46.7091	H	54	-7.2909	Avg	1.25	155	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	95.41	V	114	-18.59	Peak	1.25	155	
2475	78.1491	V	94	-15.851	Avg	1.25	155	
4950	62.56	V	74	-11.44	Peak	1.25	165	
4950	45.2991	V	54	-8.7009	Avg	1.25	165	
7425	62.91	V	74	-11.09	Peak	1.25	155	
7425	45.6491	V	54	-8.3509	Avg	1.25	155	
9900	59.21	V	74	-14.79	Peak	1.25	155	
9900	41.9491	V	54	-12.051	Avg	1.25	155	
12375								No Emission Detected
12375								Detected
14850								No Emission Detected
14850								Detected
17325								No Emission Detected
17325								Detected
19800								No Emission Detected
19800								Detected
22275								No Emission Detected
22275								Detected
24750								No Emission Detected
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	94.79	H	114	-19.21	Peak	1.25	135	
2475	77.5291	H	94	-16.471	Avg	1.25	135	
4950	62.19	H	74	-11.81	Peak	1.25	155	
4950	44.9291	H	54	-9.0709	Avg	1.25	155	
7425	62.78	H	74	-11.22	Peak	1.25	135	
7425	45.5191	H	54	-8.4809	Avg	1.25	135	
9900	55.93	H	74	-18.07	Peak	1.25	155	
9900	38.6691	H	54	-15.331	Avg	1.25	155	
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	96.87	V	114	-17.13	Peak	1.25	155	
2475	79.6091	V	94	-14.391	Avg	1.25	155	
4950	67.36	V	74	-6.64	Peak	1.25	155	
4950	50.0991	V	54	-3.9009	Avg	1.25	155	
7425	59.21	V	74	-14.79	Peak	1.25	165	
7425	41.9491	V	54	-12.051	Avg	1.25	165	
9900	59.86	V	74	-14.14	Peak	1.25	135	
9900	42.5991	V	54	-11.401	Avg	1.25	135	
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B
 Tested By: Kyle Fujimoto

High Channel - 13.70742% Duty Cycle
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	96.81	H	114	-17.19	Peak	1.25	155	
2475	79.5491	H	94	-14.451	Avg	1.25	155	
4950	61.32	H	74	-12.68	Peak	1.25	165	
4950	44.0591	H	54	-9.9409	Avg	1.25	165	
7425	62.57	H	74	-11.43	Peak	1.25	175	
7425	45.3091	H	54	-8.6909	Avg	1.25	175	
9900	56.16	H	74	-17.84	Peak	1.25	185	
9900	38.8991	H	54	-15.101	Avg	1.25	185	
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 DirectV RC71 RF4CE 2012
 Model: URC-3004BC0-X-R

Date: 06/27/2012
 Lab: B & D
 Tested By: Kyle Fujimoto

**Digital Portion, Band Edges, and Non-Harmonic Emissions from the Transmitter
 10 kHz to 25 GHz**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Comments
							No Emissions Detected from 10 kHz to 25 GHz for the Digital Portion for both the Vertical and Horizontal Polarizations.
							No Emissions Detected from 10 kHz to 25 GHz for the Non-Harmonic Emissions from the Tx for the EUT for both the Vertical and Horizontal Polarizations.
							Investigated in the X, Y, and Z-Axis
2400	40.59	H	74	-33.41	Peak	1.25	Band Edge - Low Channel
2400	23.3291	H	54	-30.671	Avg	1.25	Horizontal - X-Axis (Worst Case)
2483.5	41.25	H	74	-32.75	Peak	1.25	Band Edge - High Channel
2483.5	23.9891	H	54	-30.011	Avg	1.25	Horizontal - X-Axis (Worst Case)
2400	40.59	V	74	-33.41	Peak	1.25	Band Edge - Low Channel
2400	23.3291	V	54	-30.671	Avg	1.25	Vertical - Y-Axis (Worst Case)
2483.5	41.25	V	74	-32.75	Peak	1.25	Band Edge - High Channel
2483.5	23.9891	V	54	-30.011	Avg	1.25	Vertical - Z-Axis (Worst Case)