FCC PART 15 SUBPART B and FCC PART 15 SUBPART C
TEST REPORT

for

COMCAST XR5v3 REMOTE 2014

MODEL: URC-4300BC0-X-R

Prepared for

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DATE: JUNE 20, 2014

	REPORT BODY	APPENDICES					TOTAL
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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 certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested:	Comcast XR5v3 Remote 2014 Model: URC-4300BC0-X-R S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified in order to meet the specifications.
Manufacturer:	Universal Electronics, Inc. 201 East Sandpointe Avenue, 8th Floor Santa Ana, California 92707
Test Date(s):	March 13, 2014
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 and does not connect to the AC 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 emissions tests performed on the Comcast XR5v3 Remote 2014, Model: URC-4300BC0-X-R (EUT). 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.

James Ross	Test Engineer
Kyle Fujimoto	Test Engineer

2.4 Date Test Sample was Received

The test sample was received prior to the initial test date of May 22, 2014.

2.5 Disposition of the Test Sample

The test sample has not been returned to Universal Electronics, Inc. as of the date of the test 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
URC	Universal Remote Control

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
EN 50147-2: 1997	Anechoic chambers. Alternative test site suitability with respect to site attenuation
CISPR 22: 2008	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The Comcast XR5v3 Remote 2014, Model: URC-4300BC0-X-R (EUT) was tested as a stand alone unit. The EUT was fully tested in two different configurations: Antenna 0 and Antenna 1. The EUT had a special test program that allowed each of the previously noted configurations to be tested in the low, middle, and high channels while continously transmitting.

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
COMCAST XR5v3 REMOTE 2014 (EUT)	UNIVERSAL ELECTRONICS, INC.	URC-4300BC0-X-R	N/A	MG3-4300

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
GENERAL TEST EQUIPMENT USED IN LAB B					
Computer	Compaq	CQ5210F	CNX9360CF9	N/A	N/A
Monitor	Hewlett Packard	HPs2031a	3CQ046N3MD	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100194	November 19, 2012	2 Year
GENERAL TEST EQUIPMENT USED IN LAB D					
Computer	Hewlett Packard	p6716f	MXX1030PX0	N/A	N/A
LCD Monitor	Hewlett Packard	52031a	3CQ046N3MG	N/A	N/A
EMI Receiver, 20 Hz – 26.5 GHz	Agilent Technologies	N9038A	MY51100115	March 6, 2014	2 Year
RF RADIATED EMISSIONS TEST EQUIPMENT					
CombiLog Antenna	Com-Power	AC-220	61060	May 20, 2014	1 Year
Preamplifier	Com-Power	PA-118	181656	January 13, 2014	1 Year
Preamplifier	Com-Power	PA-840	711013	May 13, 2014	2 Year
Loop Antenna	Com-Power	AL-130	17089	January 29, 2013	2 Year
Horn Antenna	Com-Power	AH-118	071175	February 26, 2014	2 Year
Horn Antenna	Com-Power	AH-826	0071957	N/A	N/A
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
System Controller	Sunol Sciences Corporation	SC110V	112213-1	N/A	N/A
Turntable	Sunol Sciences Corporation	2011VS	N/A	N/A	N/A
Antenna-Mast	Sunol Sciences Corporation	TWR95-4	112213-3	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 was 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 and does not connect to the AC mains.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test – Lab B

The EMI Receiver was used as a measuring meter. A preamplifier was used to increase the sensitivity of the instrument. The Com Power Microwave Preamplifier M/N: PA-118 was used for frequencies from 1 GHz to 18 GHz, and the M/N: PA-840 was used for frequencies above 18 GHz. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The frequencies above 1 GHz were adjusted by a “duty cycle correction factor”, derived from 20 log (dwell time / 100 ms).

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
1 GHz to 25 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: 2009. 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 gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

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 1 GHz 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 Radiated Emissions (Spurious and Harmonics) Test – Lab D

The EMI Receiver was used as the measuring meter. A built-in, internal preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was initially used in the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is set up according to ANSI C63.4, EN 50147-2 and CISPR 22. 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 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 1 GHz	120 kHz	CombiLog Antenna

The EUT was tested at a 3 meter test distance. The six highest emissions are listed in Table 1.0.

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.

7.1.4 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS
Comcast XR5v3 Remote 2014, Model: URC-4300BC0-X-R

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
7350 (V) (Y-Axis)	45.55 (A)	54.00	-8.45
7350 (V) (Y-Axis)	42.29 (A)	54.00	-11.71
7275 (H) (X-Axis)	42.27 (A)	54.00	-11.73
7275 (V) (Y-Axis)	41.02 (A)	54.00	-12.98
7275 (H) (X-Axis)	40.89 (A)	54.00	-13.11
7275 (V) (Y-Axis)	40.88 (A)	54.00	-13.12

Notes:

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

8. CONCLUSIONS

The Comcast XR5v3 Remote 2014, Model: URC-4300BC0-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

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

Compatible Electronics IC listing can be found at:
http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home

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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST	Comcast XR5v3 Remote 2014 Model: URC-4300BC0-X-R S/N: N/A
ADDITIONAL MODELS COVERED:	The following models are considered by the manufacturer to be similar to the sample tested, however the test results contained in this report relate only to the sample tested.

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

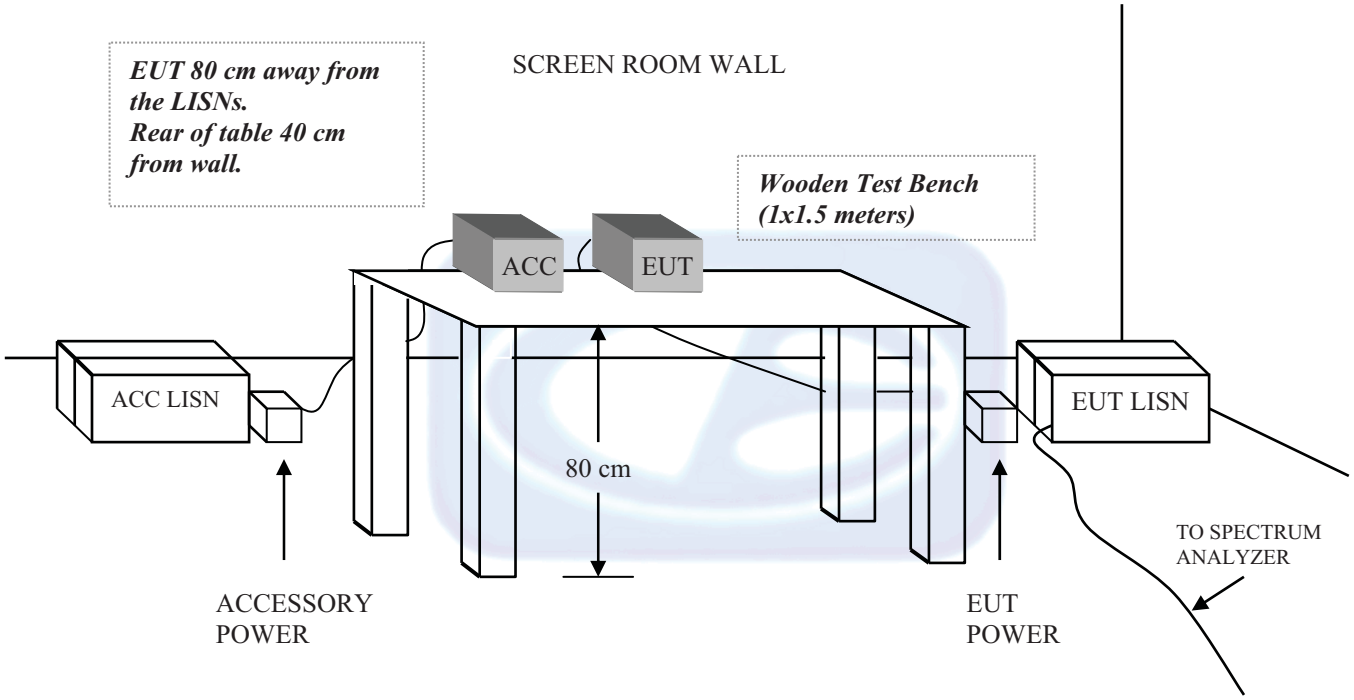


FIGURE 2: PLOT MAP AND LAYOUT OF THE LAB B RADIATED SITE

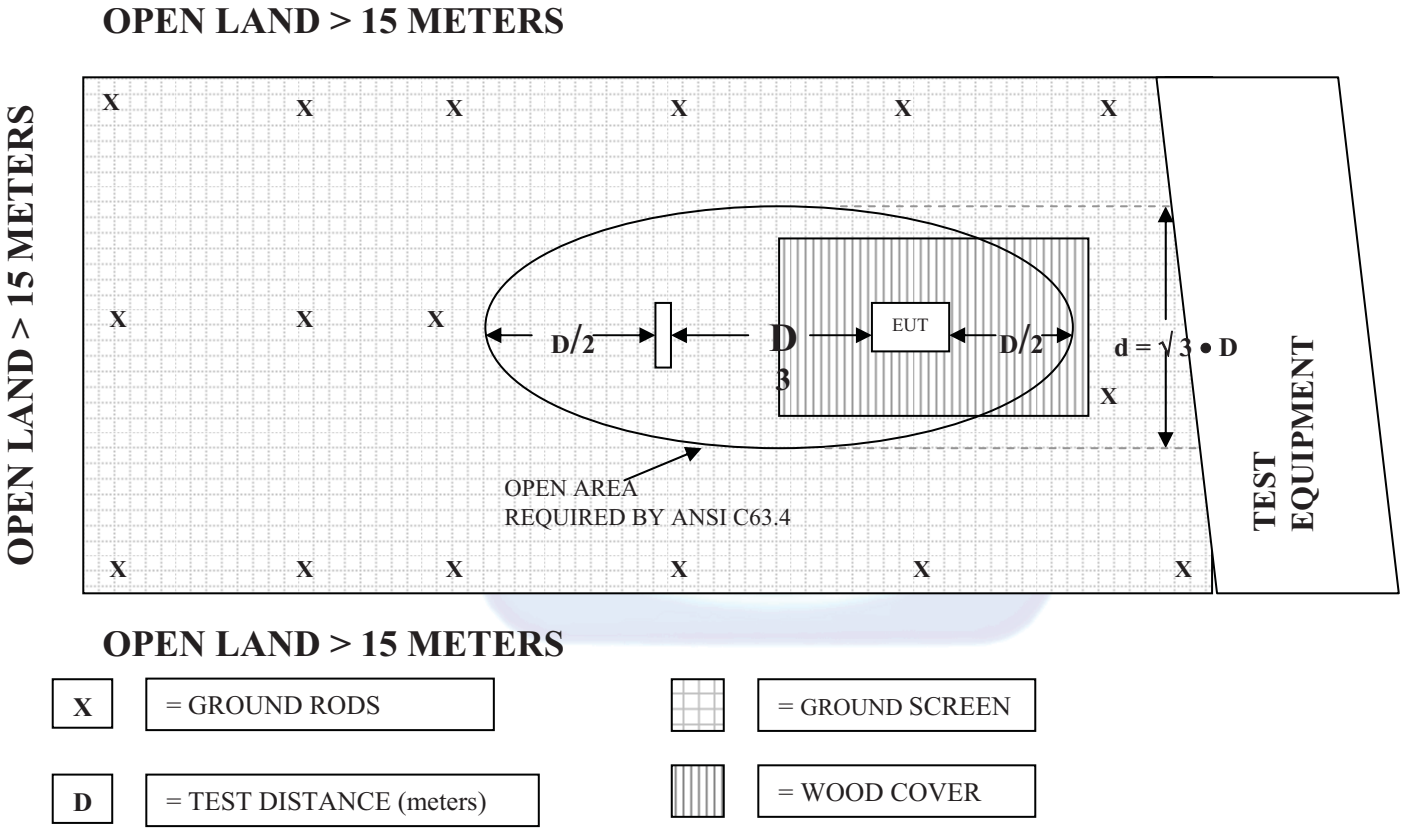
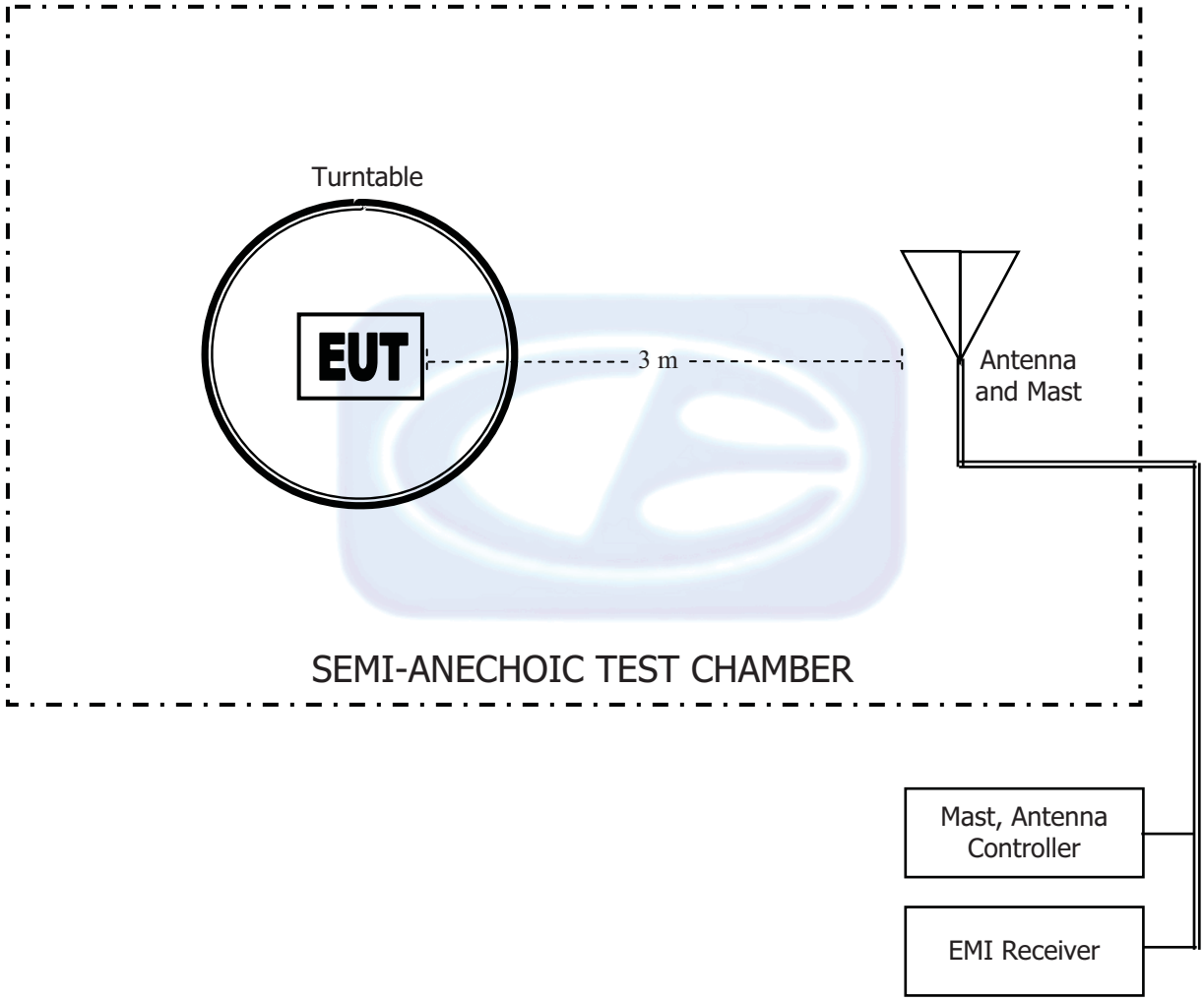


FIGURE 3: LAYOUT OF THE LAB D SEMI-ANECHOIC TEST CHAMBER



COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: JANUARY 29, 2013

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-42.5	9
0.01	-42.3	9.2
0.02	-42.1	9.4
0.03	-41.4	10.1
0.04	-41.8	9.7
0.05	-42.4	9.1
0.06	-42.3	9.2
0.07	-42.5	9
0.08	-42.4	9.1
0.09	-42.5	9
0.1	-42.5	9
0.2	-42.7	8.8
0.3	-42.6	8.9
0.4	-42.5	9
0.5	-42.7	8.8
0.6	-42.7	8.8
0.7	-42.5	9
0.8	-42.3	9.2
0.9	-42.2	9.3
1	-42.2	9.3
2	-41.8	9.7
3	-41.7	9.8
4	-41.7	9.8
5	-41.5	10
6	-41.6	9.9
7	-41.4	10.1
8	-41	10.5
9	-40.8	10.7
10	-41.3	10.2
15	-41.4	10.1
20	-41.2	10.3
25	-42.6	8.9
30	-41.7	9.8

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: MAY 20, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	23.40	200	14.40
35	23.70	250	16.40
40	24.20	300	17.90
45	22.60	350	15.60
50	22.10	400	19.90
60	17.90	450	20.40
70	12.70	500	21.60
80	11.60	550	21.50
90	12.20	600	22.30
100	13.20	650	23.50
120	15.70	700	23.70
125	15.80	750	25.90
140	13.60	800	25.90
150	16.90	850	26.40
160	14.20	900	27.00
175	14.90	950	27.70
180	15.00	1000	27.50

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 26, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.23	10.0	38.43
1.5	25.84	10.5	40.19
2.0	28.14	11.0	40.49
2.5	29.51	11.5	41.39
3.0	31.20	12.0	42.02
3.5	32.17	12.5	43.30
4.0	31.40	13.0	42.77
4.5	31.86	13.5	40.18
5.0	34.82	14.0	42.59
5.5	34.38	14.5	41.74
6.0	36.31	15.0	41.84
6.5	34.81	15.5	38.48
7.0	37.48	16.0	39.52
7.5	36.98	16.5	37.85
8.0	36.66	17.0	41.33
8.5	38.47	17.5	44.96
9.0	37.22	18.0	48.50
9.5	37.86		

COM-POWER PA-118

PREAMPLIFIER

S/N: 181656

CALIBRATION DATE: JANUARY 13, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.90	6.0	25.40
1.1	25.30	6.5	25.20
1.2	26.00	7.0	24.40
1.3	26.20	7.5	24.00
1.4	26.30	8.0	23.90
1.5	26.40	8.5	24.50
1.6	26.50	9.0	25.20
1.7	26.60	9.5	24.80
1.8	26.50	10.0	24.90
1.9	26.60	11.0	25.40
2.0	26.70	12.0	24.50
2.5	26.90	13.0	24.30
3.0	27.00	14.0	25.20
3.5	27.10	15.0	25.90
4.0	26.60	16.0	25.60
4.5	26.10	17.0	23.70
5.0	26.40	18.0	25.80
5.5	25.80		

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-840

MICROWAVE PREAMPLIFIER

S/N: 711013

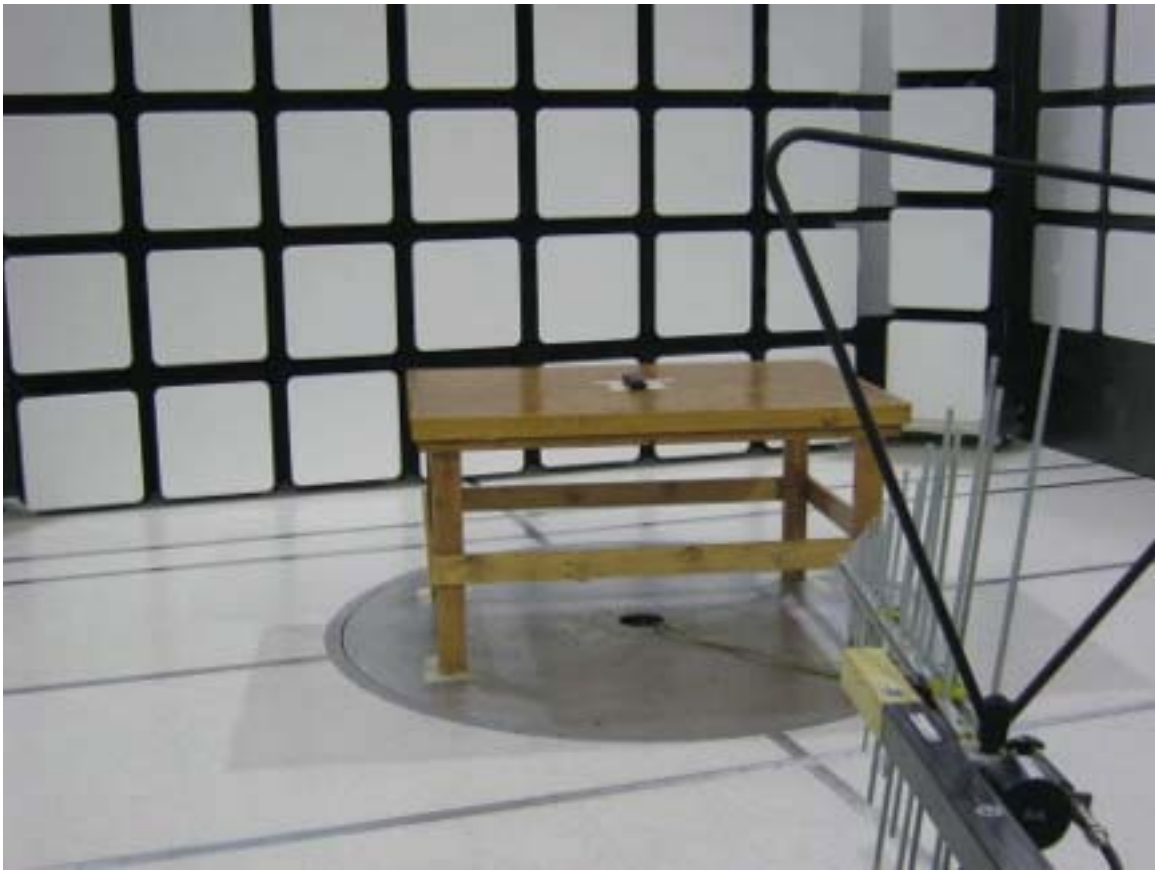
CALIBRATION DATE: MAY 13, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.19	31.5	25.74
19.0	24.48	32.0	26.35
20.0	24.39	32.5	26.64
21.0	24.73	33.0	25.98
22.0	23.49	33.5	24.68
23.0	24.23	34.0	24.61
24.0	24.59	34.5	23.78
25.0	25.32	35.0	24.74
26.0	25.66	35.5	24.39
26.5	25.99	36.0	23.46
27.0	25.26	36.5	23.71
27.5	25.33	37.0	26.35
28.0	24.49	37.5	23.94
28.5	24.74	38.0	25.42
29.0	25.93	38.5	24.87
29.5	26.28	39.0	22.60
30.0	26.17	39.5	20.57
30.5	26.11	40.0	19.15
31.0	25.69		

FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
COMCAST XR5v3 REMOTE 2014
MODEL: URC-4300BC0-X-R
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

UNIVERSAL ELECTRONICS, INC.
COMCAST XR5v3 REMOTE 2014
MODEL: URC-4300BC0-X-R
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
COMCAST XR5v3 REMOTE 2014
MODEL: URC-4300BC0-X-R
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

UNIVERSAL ELECTRONICS, INC.
COMCAST XR5v3 REMOTE 2014
MODEL: URC-4300BC0-X-R
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS
DATA SHEETS
ANTENNA "0"

FCC 15.249

Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	93.48	V	114	-20.52	Peak	1.25	155	
2425	73.48	V	94	-20.52	Avg	1.25	155	
4850	56.79	V	74	-17.21	Peak	1.25	165	
4850	36.79	V	54	-17.21	Avg	1.25	165	
7275	57.04	V	74	-16.96	Peak	1.35	155	
7275	37.04	V	54	-16.96	Avg	1.35	155	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	98.58	H	114	-15.42	Peak	1.25	225	
2425	78.58	H	94	-15.42	Avg	1.25	225	
4850	57.36	H	74	-16.64	Peak	1.25	225	
4850	37.36	H	54	-16.64	Avg	1.25	225	
7275	60.89	H	74	-13.11	Peak	1.35	165	
7275	40.89	H	54	-13.11	Avg	1.35	165	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	98.29	V	114	-15.71	Peak	1.25	155	
2425	78.29	V	94	-15.71	Avg	1.25	155	
4850	54.91	V	74	-19.09	Peak	1.25	165	
4850	34.91	V	54	-19.09	Avg	1.25	165	
7275	61.02	V	74	-12.98	Peak	1.15	175	
7275	41.02	V	54	-12.98	Avg	1.15	175	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	87.21	H	114	-26.79	Peak	1.25	225	
2425	67.21	H	94	-26.79	Avg	1.25	225	
4850	57.25	H	74	-16.75	Peak	1.25	155	
4850	37.25	H	54	-16.75	Avg	1.25	155	
7275	58.15	H	74	-15.85	Peak	1.35	165	
7275	38.15	H	54	-15.85	Avg	1.35	165	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	94.96	V	114	-19.04	Peak	1.25	45	
2425	74.96	V	94	-19.04	Avg	1.25	45	
4850	56.29	V	74	-17.71	Peak	1.35	155	
4850	36.29	V	54	-17.71	Avg	1.35	155	
7275	57.75	V	74	-16.25	Peak	1.25	145	
7275	37.75	V	54	-16.25	Avg	1.25	145	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 0 - Side of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	95.84	H	114	-18.16	Peak	1.25	155	
2425	75.84	H	94	-18.16	Avg	1.25	155	
4850	54.49	H	74	-19.51	Peak	1.35	135	
4850	34.49	H	54	-19.51	Avg	1.35	135	
7275	59.63	H	74	-14.37	Peak	1.25	145	
7275	39.63	H	54	-14.37	Avg	1.25	145	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	86.54	V	114	-27.46	Peak	1.25	45	
2450	66.54	V	94	-27.46	Avg	1.25	45	
4900	52.48	V	74	-21.52	Peak	1.35	155	
4900	32.48	V	54	-21.52	Avg	1.35	155	
7350	55.64	V	74	-18.36	Peak	1.25	175	
7350	35.64	V	54	-18.36	Avg	1.25	175	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	98.66	H	114	-15.34	Peak	1.25	155	
2450	78.66	H	94	-15.34	Avg	1.25	155	
4900	58.64	H	74	-15.36	Peak	1.25	155	
4900	38.64	H	54	-15.36	Avg	1.25	155	
7350	60.72	H	74	-13.28	Peak	1.35	145	
7350	40.72	H	54	-13.28	Avg	1.35	145	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	97.41	V	114	-16.59	Peak	1.25	135	
2450	77.41	V	94	-16.59	Avg	1.25	135	
4900	55.88	V	74	-18.12	Peak	1.35	225	
4900	35.88	V	54	-18.12	Avg	1.35	225	
7350	62.29	V	74	-11.71	Peak	1.45	235	
7350	42.29	V	54	-11.71	Avg	1.45	235	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	85.02	H	114	-28.98	Peak	1.25	155	
2450	65.02	H	94	-28.98	Avg	1.25	155	
4900	58.3	H	74	-15.7	Peak	1.35	165	
4900	38.3	H	54	-15.7	Avg	1.35	165	
7350	56.76	H	74	-17.24	Peak	1.25	135	
7350	36.76	H	54	-17.24	Avg	1.25	135	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	96.66	V	114	-17.34	Peak	1.35	155	
2450	76.66	V	94	-17.34	Avg	1.35	155	
4900	57.79	V	74	-16.21	Peak	1.25	165	
4900	37.79	V	54	-16.21	Avg	1.25	165	
7350	59.31	V	74	-14.69	Peak	1.25	225	
7350	39.31	V	54	-14.69	Avg	1.25	225	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 0 - Side of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	96.07	H	114	-17.93	Peak	1.25	155	
2450	76.07	H	94	-17.93	Avg	1.25	155	
4900	54.52	H	74	-19.48	Peak	1.25	155	
4900	34.52	H	54	-19.48	Avg	1.25	155	
7350	59.66	H	74	-14.34	Peak	1.35	165	
7350	39.66	H	54	-14.34	Avg	1.35	165	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	92.98	V	114	-21.02	Peak	1.25	155	
2475	72.98	V	94	-21.02	Avg	1.25	155	
4950	57.74	V	74	-16.26	Peak	1.25	155	
4950	37.74	V	54	-16.26	Avg	1.25	155	
7425	54.71	V	74	-19.29	Peak	1.25	165	
7425	34.71	V	54	-19.29	Avg	1.25	165	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	98.4	H	114	-15.6	Peak	1.25	225	
2475	78.4	H	94	-15.6	Avg	1.25	225	
4950	59.46	H	74	-14.54	Peak	1.25	165	
4950	39.46	H	54	-14.54	Avg	1.25	165	
7425	57.76	H	74	-16.24	Peak	1.25	155	
7425	37.76	H	54	-16.24	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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	97.31	V	114	-16.69	Peak	1.25	155	
2475	77.31	V	94	-16.69	Avg	1.25	155	
4950	55.66	V	74	-18.34	Peak	1.35	165	
4950	35.66	V	54	-18.34	Avg	1.35	165	
7425	59.26	V	74	-14.74	Peak	1.25	155	
7425	39.26	V	54	-14.74	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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	87.66	H	114	-26.34	Peak	1.25	180	
2475	67.66	H	94	-26.34	Avg	1.25	180	
4950	59.21	H	74	-14.79	Peak	1.55	165	
4950	39.21	H	54	-14.79	Avg	1.55	165	
7425	56.03	H	74	-17.97	Peak	1.25	175	
7425	46.03	H	54	-7.97	Avg	1.25	175	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	91.27	V	114	-22.73	Peak	1.25	90	
2475	71.27	V	94	-22.73	Avg	1.25	90	
4950	59.39	V	74	-14.61	Peak	1.25	155	
4950	39.39	V	54	-14.61	Avg	1.25	155	
7425	54.97	V	74	-19.03	Peak	1.35	165	
7425	34.97	V	54	-19.03	Avg	1.35	165	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 0 - Side of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	96.16	H	114	-17.84	Peak	1.25	135	
2475	76.16	H	94	-17.84	Avg	1.25	135	
4950	57.54	H	74	-16.46	Peak	1.35	145	
4950	37.54	H	54	-16.46	Avg	1.35	145	
7425	56.66	H	74	-17.34	Peak	1.45	155	
7425	36.66	H	54	-17.34	Avg	1.45	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**

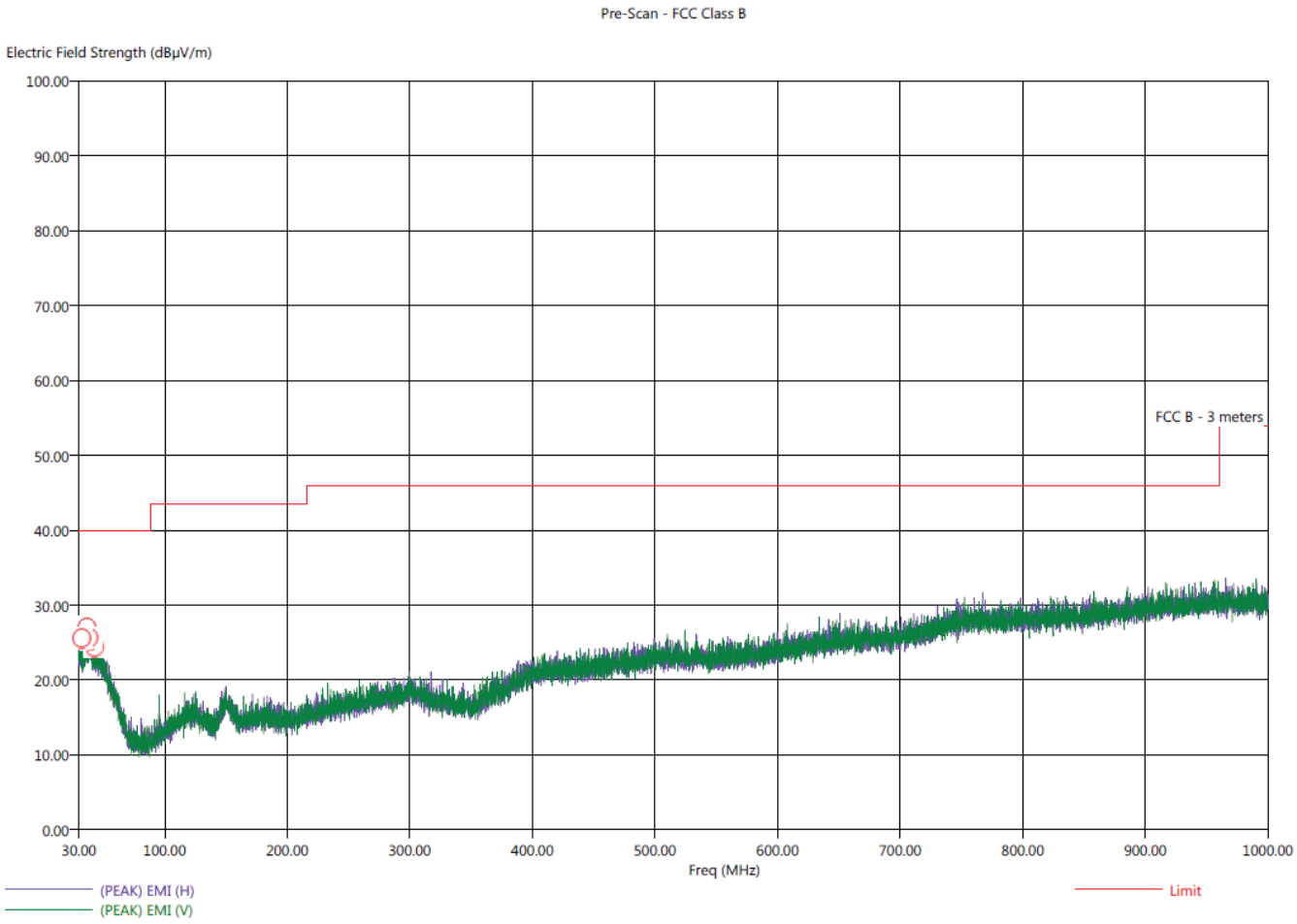
FCC 15.249 and FCC Class B
Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Dates: 05/22 and 05/30/14
Lab: B
Tested By: Kyle Fujimoto

Digital Portion and Non-Harmonic Emissions from the Transmitter
10 kHz to 30 MHz and 1 GHz to 25 GHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Detected
								from 10 kHz to 30 MHz
								for the Digital Portion
								for both the Vertical and
								Horizontal Polarizations.
								No Emissions Detected
								from 10 kHz to 30 MHz
								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
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the Digital Portion
								for both the Vertical and
								Horizontal Polarizations.
								No Emissions Detected
								from 1 GHz 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

```
Title: Pre-Scan - FCC Class B                                  5/30/2014 10:04:28 AM
File: Agilent - AN 0 - Radiated Pre Scan 30-1000 MHz - X-Axis.set  Sequence: Preliminary Scan
Operator: Kyle Fujimoto
EUT Type: Comcast XR5v3 Remote 2014
EUT Condition: Continuously Transmitting - Antenna 0
Comments: Customer: Universal Electronics, Inc.
Model: URC-4300BC0-X-R
X-Axis
```



Title: Radiated Final - 30-1000 MHz - FCC Class B
File: Agilent - Final Scan 30-1000 MHz - X-Axis.set
Operator: Kyle Fujimoto
EUT Type: Comcast XR5v3 Remote 2014
EUT Condition: Continuously Transmitting - Antenna 0
Comments: Customer: Universal Electronics, Inc.
Model: URC-4300BC0-X-R
X-Axis (Worst Case)

5/30/2014 11:20:26 AM
Sequence: Final Measurements

Final Scan - FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Agl (deg)	Twr Ht (cm)
32.40	V	25.35	21.46	-14.65	-18.54	40.00	23.56	0.37	298.00	270.80
36.70	H	26.04	21.78	-13.96	-18.22	40.00	23.88	0.41	323.25	222.44
38.30	V	26.91	21.97	-13.09	-18.03	40.00	24.04	0.42	200.25	353.91
38.60	V	27.07	22.05	-12.93	-17.95	40.00	24.07	0.42	170.50	344.77
39.90	V	26.67	22.08	-13.33	-17.92	40.00	24.17	0.43	17.25	254.38
41.50	H	25.69	21.57	-14.31	-18.43	40.00	23.74	0.44	200.50	138.50
42.80	V	25.28	21.15	-14.72	-18.85	40.00	23.25	0.45	167.75	290.68

RADIATED EMISSIONS
DATA SHEETS
ANTENNA "1"

FCC 15.249

Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	85	V	114	-29	Peak	1.25	155	
2425	65	V	94	-29	Avg	1.25	155	
4850	51.92	V	74	-22.08	Peak	1.35	165	
4850	31.92	V	54	-22.08	Avg	1.35	165	
7275	57.41	V	74	-16.59	Peak	1.25	180	
7275	37.41	V	54	-16.59	Avg	1.25	180	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	97.41	H	114	-16.59	Peak	1.25	155	
2425	77.41	H	94	-16.59	Avg	1.25	155	
4850	52.38	H	74	-21.62	Peak	1.25	165	
4850	32.38	H	54	-21.62	Avg	1.25	165	
7275	62.27	H	74	-11.73	Peak	1.25	155	
7275	42.27	H	54	-11.73	Avg	1.25	155	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	89.65	V	114	-24.35	Peak	1.25	155	
2425	69.65	V	94	-24.35	Avg	1.25	155	
4850	52.96	V	74	-21.04	Peak	1.25	155	
4850	32.96	V	54	-21.04	Avg	1.25	155	
7275	60.88	V	74	-13.12	Peak	1.25	225	
7275	40.88	V	54	-13.12	Avg	1.25	225	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	93.17	H	114	-20.83	Peak	1.25	0	
2425	73.17	H	94	-20.83	Avg	1.25	0	
4850	50.33	H	74	-23.67	Peak	1.35	45	
4850	30.33	H	54	-23.67	Avg	1.35	45	
7275	58.71	H	74	-15.29	Peak	1.25	155	
7275	38.71	H	54	-15.29	Avg	1.25	155	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	95.53	V	114	-18.47	Peak	1.25	155	
2425	75.53	V	94	-18.47	Avg	1.25	155	
4850	52.49	V	74	-21.51	Peak	1.35	45	
4850	32.49	V	54	-21.51	Avg	1.35	45	
7275	57.41	V	74	-16.59	Peak	1.25	45	
7275	37.41	V	54	-16.59	Avg	1.25	45	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Low Channel - AN 1 - Top of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	89.98	H	114	-24.02	Peak	1.25	155	
2425	69.98	H	94	-24.02	Avg	1.25	155	
4850	53.63	H	74	-20.37	Peak	1.35	315	
4850	33.63	H	54	-20.37	Avg	1.35	315	
7275	60.87	H	74	-13.13	Peak	1.25	155	
7275	40.87	H	54	-13.13	Avg	1.25	155	
9700								**No Emission**
9700								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	82.76	V	114	-31.24	Peak	1.25	155	
2450	62.76	V	94	-31.24	Avg	1.25	155	
4900	50.42	V	74	-23.58	Peak	1.35	155	
4900	30.42	V	54	-23.58	Avg	1.35	155	
7350	56.92	V	74	-17.08	Peak	1.25	225	
7350	36.92	V	54	-17.08	Avg	1.25	225	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	97.17	H	114	-16.83	Peak	1.25	45	
2450	77.17	H	94	-16.83	Avg	1.25	45	
4900	57.72	H	74	-16.28	Peak	1.35	145	
4900	37.72	H	54	-16.28	Avg	1.35	145	
7350	57.96	H	74	-16.04	Peak	1.25	155	
7350	37.96	H	54	-16.04	Avg	1.25	155	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	89.58	V	114	-24.42	Peak	1.25	155	
2450	69.58	V	94	-24.42	Avg	1.25	155	
4900	52.72	V	74	-21.28	Peak	1.35	165	
4900	32.72	V	54	-21.28	Avg	1.35	165	
7350	65.55	V	74	-8.45	Peak	1.25	175	
7350	45.55	V	54	-8.45	Avg	1.25	175	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	95.45	H	114	-18.55	Peak	1.25	45	
2450	75.45	H	94	-18.55	Avg	1.25	45	
4900	56.01	H	74	-17.99	Peak	1.35	90	
4900	36.01	H	54	-17.99	Avg	1.35	90	
7350	59.01	H	74	-14.99	Peak	1.25	225	
7350	39.01	H	54	-14.99	Avg	1.25	225	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	92.58	V	114	-21.42	Peak	1.25	155	
2450	72.58	V	94	-21.42	Avg	1.25	155	
4900	56.74	V	74	-17.26	Peak	1.25	165	
4900	36.74	V	54	-17.26	Avg	1.25	165	
7350	56.13	V	74	-17.87	Peak	1.25	175	
7350	36.13	V	54	-17.87	Avg	1.25	175	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Middle Channel - AN 1 - Top of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2450	95.39	H	114	-18.61	Peak	1.25	155	
2450	75.39	H	94	-18.61	Avg	1.25	155	
4900	57.65	H	74	-16.35	Peak	1.25	155	
4900	37.65	H	54	-16.35	Avg	1.25	155	
7350	58.57	H	74	-15.43	Peak	1.25	90	
7350	38.57	H	54	-15.43	Avg	1.25	90	
9800								**No Emission**
9800								**Detected**
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	83.59	V	114	-30.41	Peak	1.25	225	
2475	63.59	V	94	-30.41	Avg	1.25	225	
4950	51.72	V	74	-22.28	Peak	1.25	135	
4950	31.72	V	54	-22.28	Avg	1.25	135	
7425	57.25	V	74	-16.75	Peak	1.35	315	
7425	37.25	V	54	-16.75	Avg	1.35	315	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	98	H	114	-16	Peak	1.25	155	
2475	78	H	94	-16	Avg	1.25	155	
4950	59.24	H	74	-14.76	Peak	1.25	225	
4950	39.24	H	54	-14.76	Avg	1.25	225	
7425	57.23	H	74	-16.77	Peak	1.35	235	
7425	37.23	H	54	-16.77	Avg	1.35	235	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	96.09	V	114	-17.91	Peak	1.35	145	
2475	76.09	V	94	-17.91	Avg	1.35	145	
4950	53.88	V	74	-20.12	Peak	1.25	155	
4950	33.88	V	54	-20.12	Avg	1.25	155	
7425	57.61	V	74	-16.39	Peak	1.25	155	
7425	37.61	V	54	-16.39	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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	86.08	H	114	-27.92	Peak	1.25	315	
2475	66.08	H	94	-27.92	Avg	1.25	315	
4950	58.64	H	74	-15.36	Peak	1.25	155	
4950	38.64	H	54	-15.36	Avg	1.25	155	
7425	55.25	H	74	-18.75	Peak	1.35	155	
7425	35.25	H	54	-18.75	Avg	1.35	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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	93.27	V	114	-20.73	Peak	1.25	155	
2475	73.27	V	94	-20.73	Avg	1.25	155	
4950	58.04	V	74	-15.96	Peak	1.35	165	
4950	38.04	V	54	-15.96	Avg	1.35	165	
7425	55.83	V	74	-18.17	Peak	1.45	175	
7425	35.83	V	54	-18.17	Avg	1.45	175	
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.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

High Channel - AN 1 -Top of Remote
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	95.67	H	114	-18.33	Peak	1.25	155	
2475	75.67	H	94	-18.33	Avg	1.25	155	
4950	55.77	H	74	-18.23	Peak	1.25	45	
4950	35.77	H	54	-18.23	Avg	1.25	45	
7425	57.77	H	74	-16.23	Peak	1.35	155	
7425	37.77	H	54	-16.23	Avg	1.35	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**

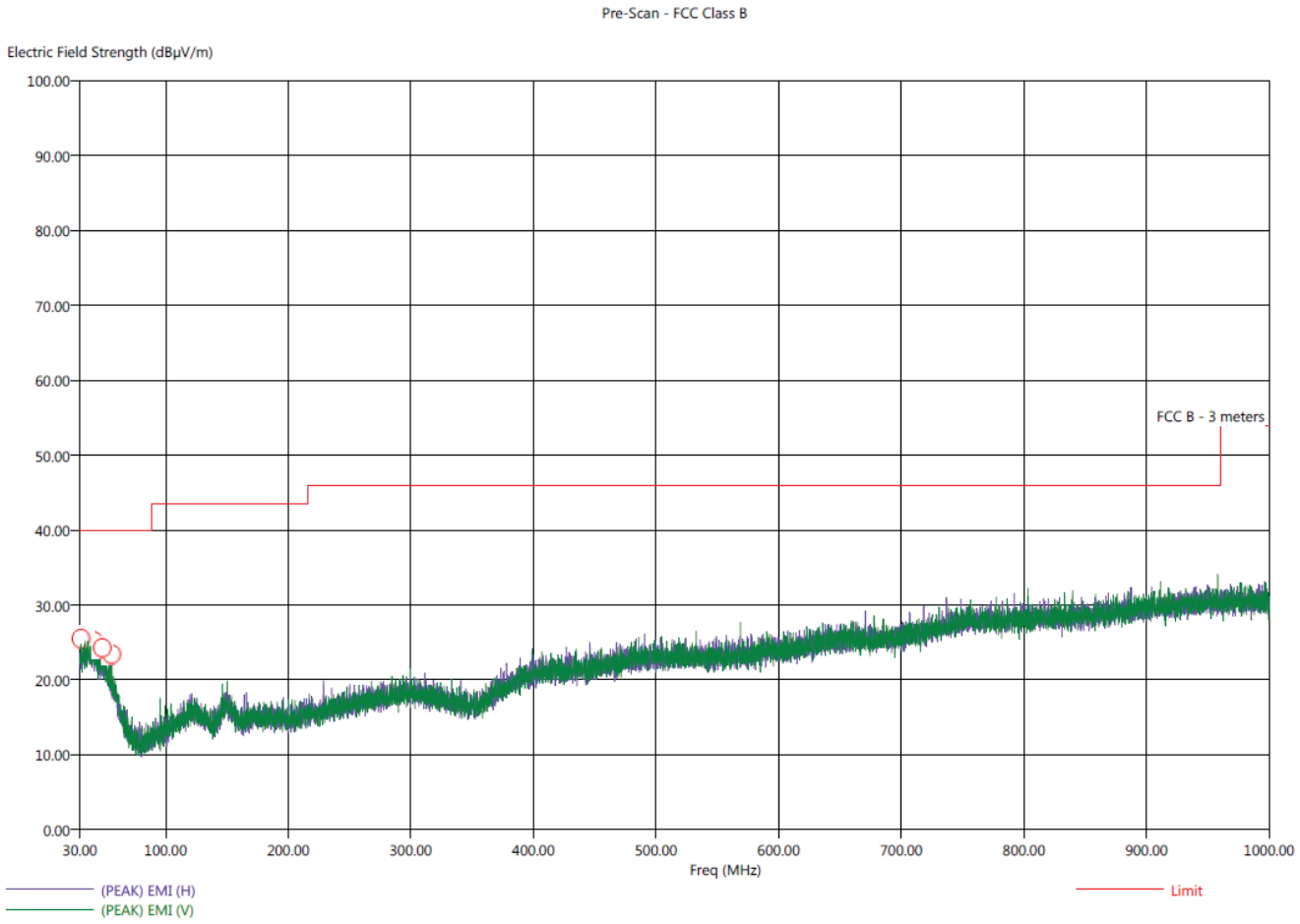
FCC 15.249 and FCC Class B
Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Dates: 05/22 and 05/30/14
Lab: B
Tested By: Kyle Fujimoto

Digital Portion and Non-Harmonic Emissions from the Transmitter
10 kHz to 30 MHz and 1 GHz to 25 GHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Detected
								from 10 kHz to 30 MHz
								for the Digital Portion
								for both the Vertical and
								Horizontal Polarizations.
								No Emissions Detected
								from 10 kHz to 30 MHz
								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
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the Digital Portion
								for both the Vertical and
								Horizontal Polarizations.
								No Emissions Detected
								from 1 GHz 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

```
Title: Pre-Scan - FCC Class B                                  5/30/2014 10:53:01 AM
File: Agilent - AN 1 - Radiated Pre Scan 30-1000 MHz - X-Axis.set  Sequence: Preliminary Scan
Operator: Kyle Fujimoto
EUT Type: Comcast XR5v3 Remote 2014
EUT Condition: Continuously Transmitting - Antenna 1
Comments: Customer: Universal Electronics, Inc.
Model: URC-4300BC0-X-R
X-Axis
```



Title: Radiated Final - 30-1000 MHz - FCC Class B
File: Agilent - Final Scan 30-1000 MHz - X-Axis.set
Operator: Kyle Fujimoto
EUT Type: Comcast XR5v3 Remote 2014
EUT Condition: Continuously Transmitting - Antenna 1
Comments: Customer: Universal Electronics, Inc.
Model: URC-4300BC0-X-R
X-Axis (Worst Case)

5/30/2014 11:03:21 AM
Sequence: Final Measurements

Final Scan - FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Agl (deg)	Twr Ht (cm)
31.00	H	26.58	21.35	-13.42	-18.65	40.00	23.45	0.36	173.25	387.46
32.60	H	25.88	21.44	-14.12	-18.56	40.00	23.55	0.37	312.50	170.92
41.10	H	25.77	21.62	-14.23	-18.38	40.00	23.79	0.44	207.50	184.83
42.00	H	25.23	21.49	-14.77	-18.51	40.00	23.60	0.44	162.25	286.68
48.50	V	24.58	20.20	-15.42	-19.80	40.00	22.26	0.49	92.50	134.08
56.10	V	21.60	17.32	-18.40	-22.68	40.00	19.39	0.53	359.25	370.80

BAND EDGES

DATA SHEETS

FCC 15.249

Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Band Edges - AN 0 - Side of Remote

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	98.58	H	114	-15.42	Peak	1.25	225	Fundamental
2425	78.58	H	94	-15.42	Avg	1.25	225	of Low Channel
2400	42.59	H	74	-31.41	Peak	1.25	225	Band Edge of Low Channel
2400	22.59	H	54	-31.41	Avg	1.25	225	X-Axis Worst Case
2475	98.4	H	114	-15.6	Peak	1.25	225	Fundamental of
2475	78.4	H	94	-15.6	Avg	1.25	225	High Channel
2483.5	50.74	H	74	-23.26	Peak	1.25	225	Band Edge of High Channel
2483.5	30.74	H	54	-23.26	Avg	1.25	225	X-Axis Worst Case
2425	98.52	V	114	-15.48	Peak	1.25	155	Fundamental
2425	78.52	V	94	-15.48	Avg	1.25	155	of Low Channel
2400	41.03	V	74	-32.97	Peak	1.25	225	Band Edge of Low Channel
2400	21.03	V	54	-32.97	Avg	1.25	225	Y-Axis Worst Case
2475	97.3	V	114	-16.7	Peak	1.25	155	Fundamental of
2475	77.3	V	94	-16.7	Avg	1.25	155	High Channel
2483.5	49.88	V	74	-24.12	Peak	1.25	225	Band Edge of High Channel
2483.5	29.88	V	54	-24.12	Avg	1.25	225	Y-Axis Worst Case

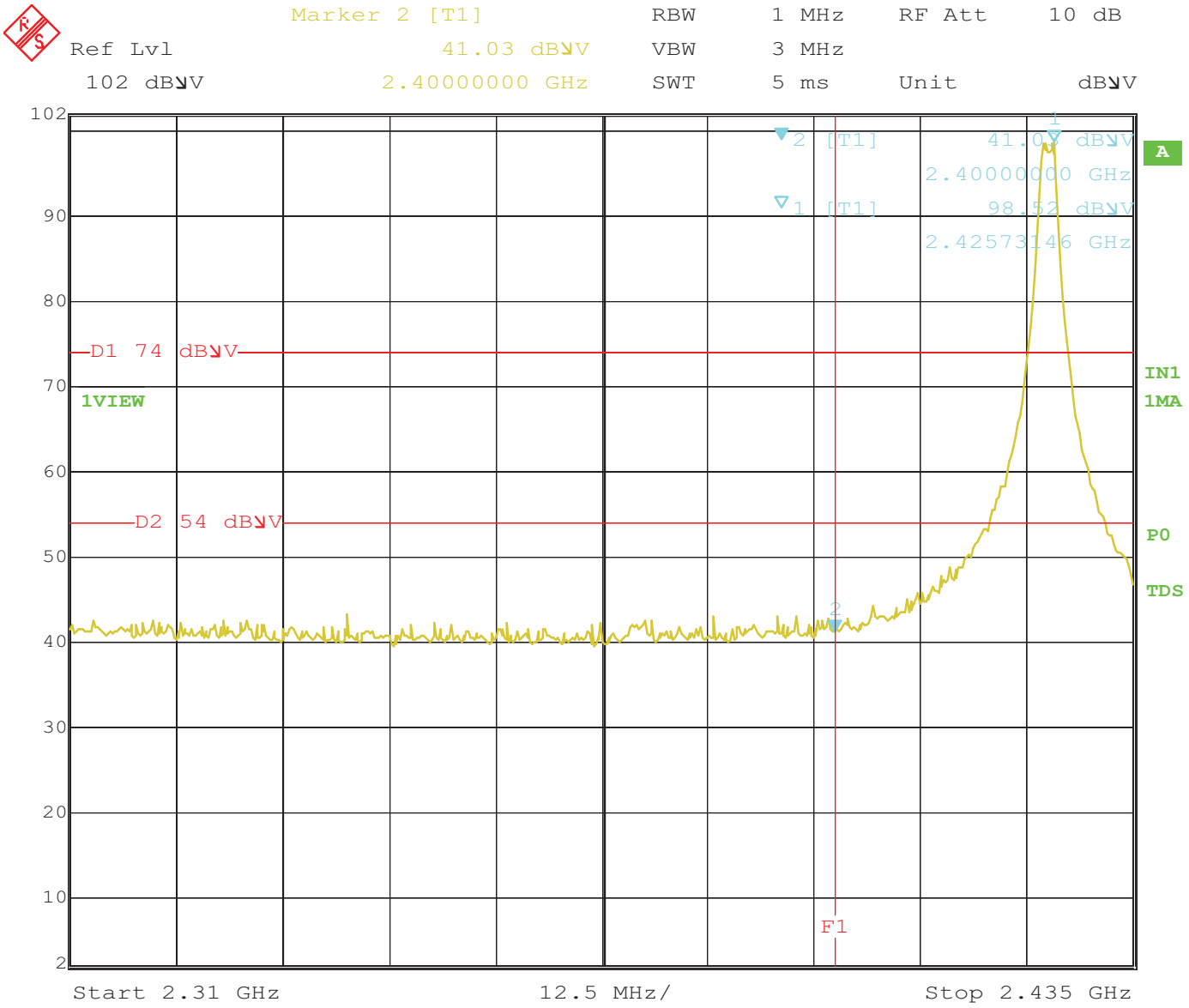
FCC 15.249

Universal Electronics, Inc.
Comcast XR5v3 Remote 2014
Model: URC4300BC0-X-R

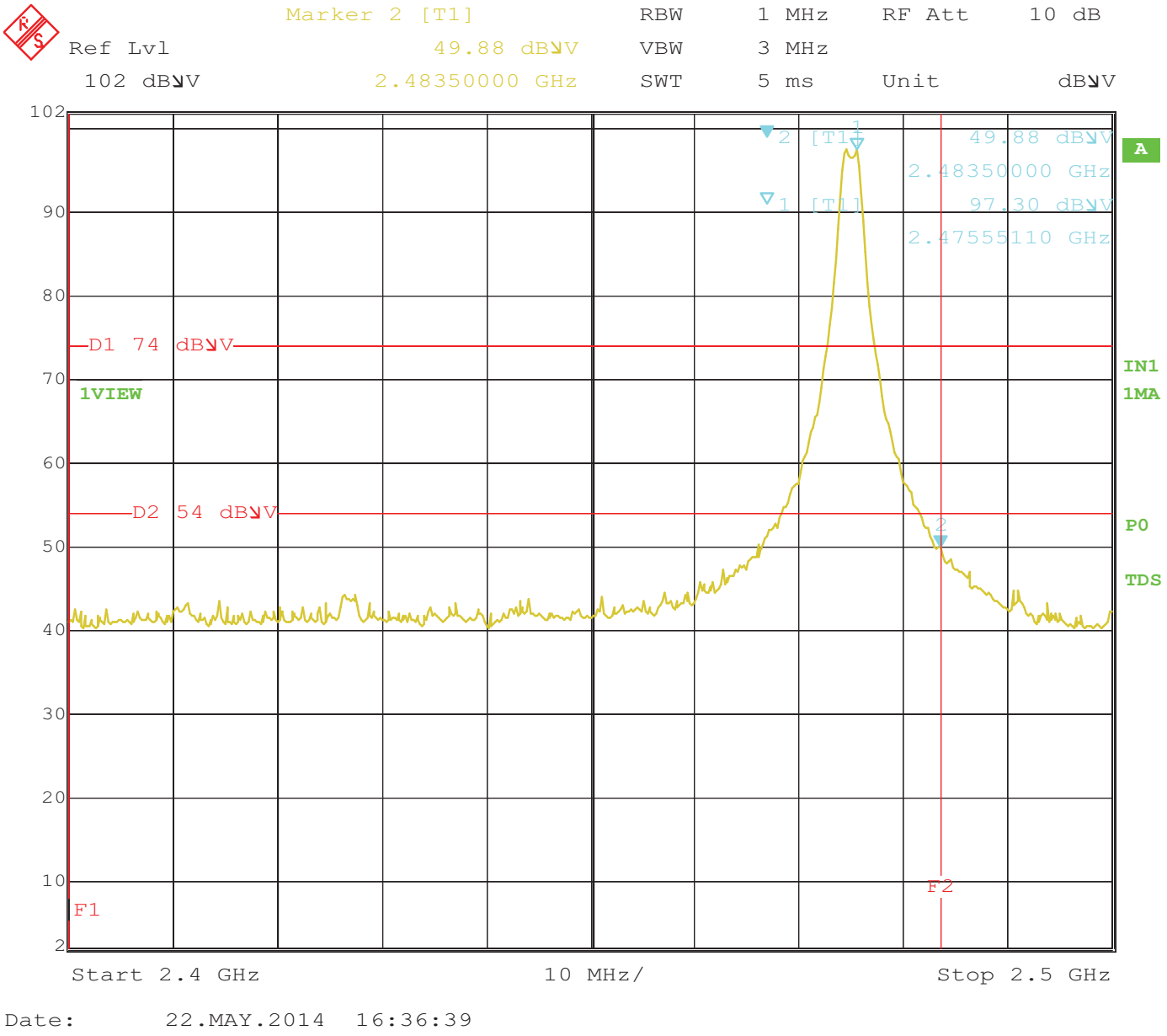
Date: 05/22/2014
Lab: B
Tested By: Kyle Fujimoto

Band Edges - AN 1 - Top of Remote

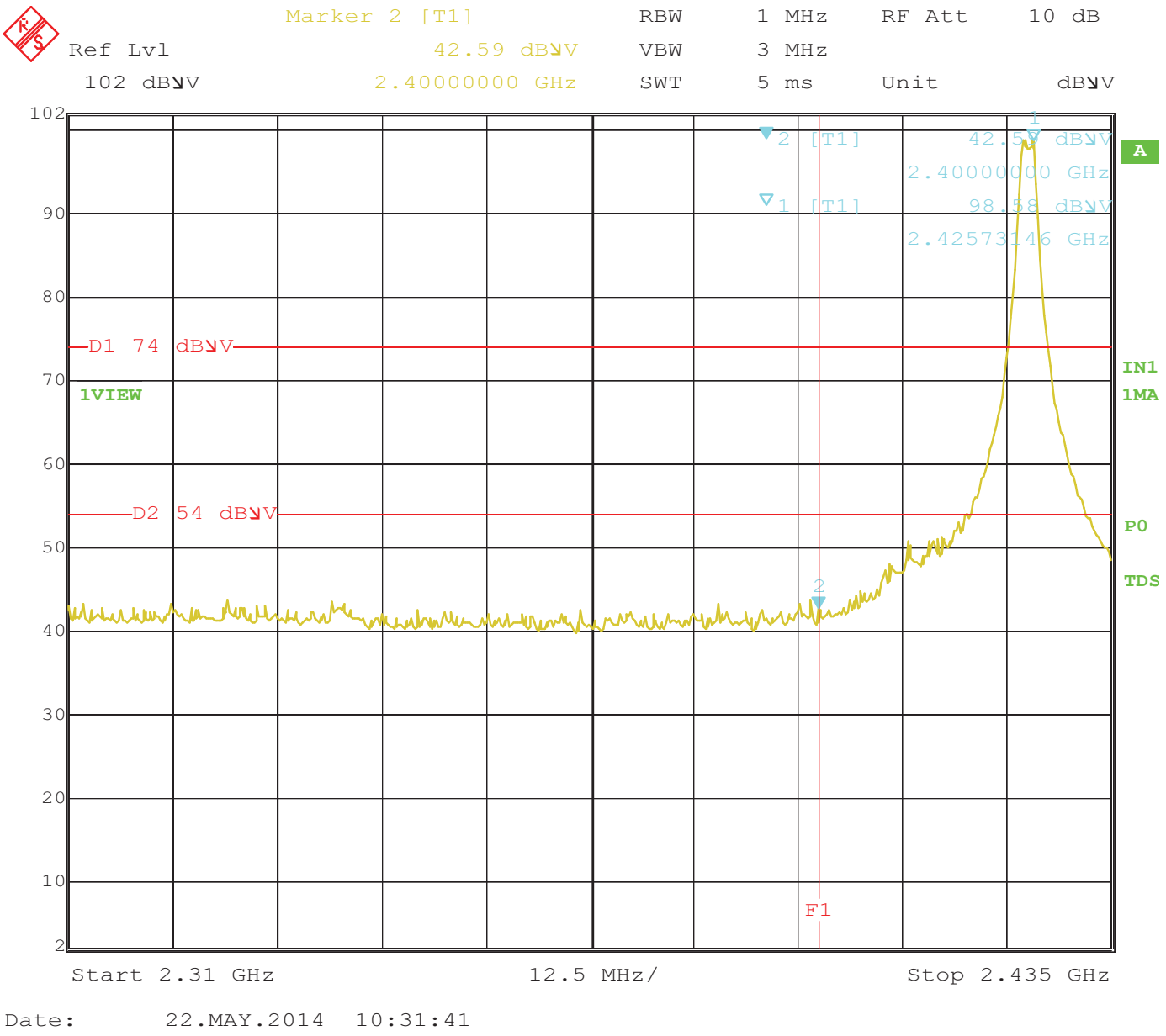
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	97.40	H	114	-16.60	Peak	1.25	155	Fundamental
2425	77.40	H	94	-16.60	Avg	1.25	155	of Low Channel
2400	40.8	H	74	-33.2	Peak	1.25	155	Band Edge of Low Channel
2400	20.8	H	54	-33.2	Avg	1.25	155	X-Axis Worst Case
2475	98	H	114	-16	Peak	1.25	155	Fundamental of
2475	78	H	94	-16	Avg	1.25	155	High Channel
2483.5	49.77	H	74	-24.23	Peak	1.25	155	Band Edge of High Channel
2483.5	29.77	H	54	-24.23	Avg	1.25	155	X-Axis Worst Case
2425	95.12	V	114	-18.88	Peak	1.25	155	Fundamental
2425	75.12	V	94	-18.88	Avg	1.25	155	of Low Channel
2400	42.16	V	74	-31.84	Peak	1.25	155	Band Edge of Low Channel
2400	22.16	V	54	-31.84	Avg	1.25	155	Z-Axis Worst Case
2475	95.81	V	114	-18.19	Peak	1.35	145	Fundamental of
2475	75.81	V	94	-18.19	Avg	1.35	145	High Channel
2483.5	48.66	V	74	-25.34	Peak	1.35	145	Band Edge of High Channel
2483.5	28.66	V	54	-25.34	Avg	1.35	145	Y-Axis Worst Case



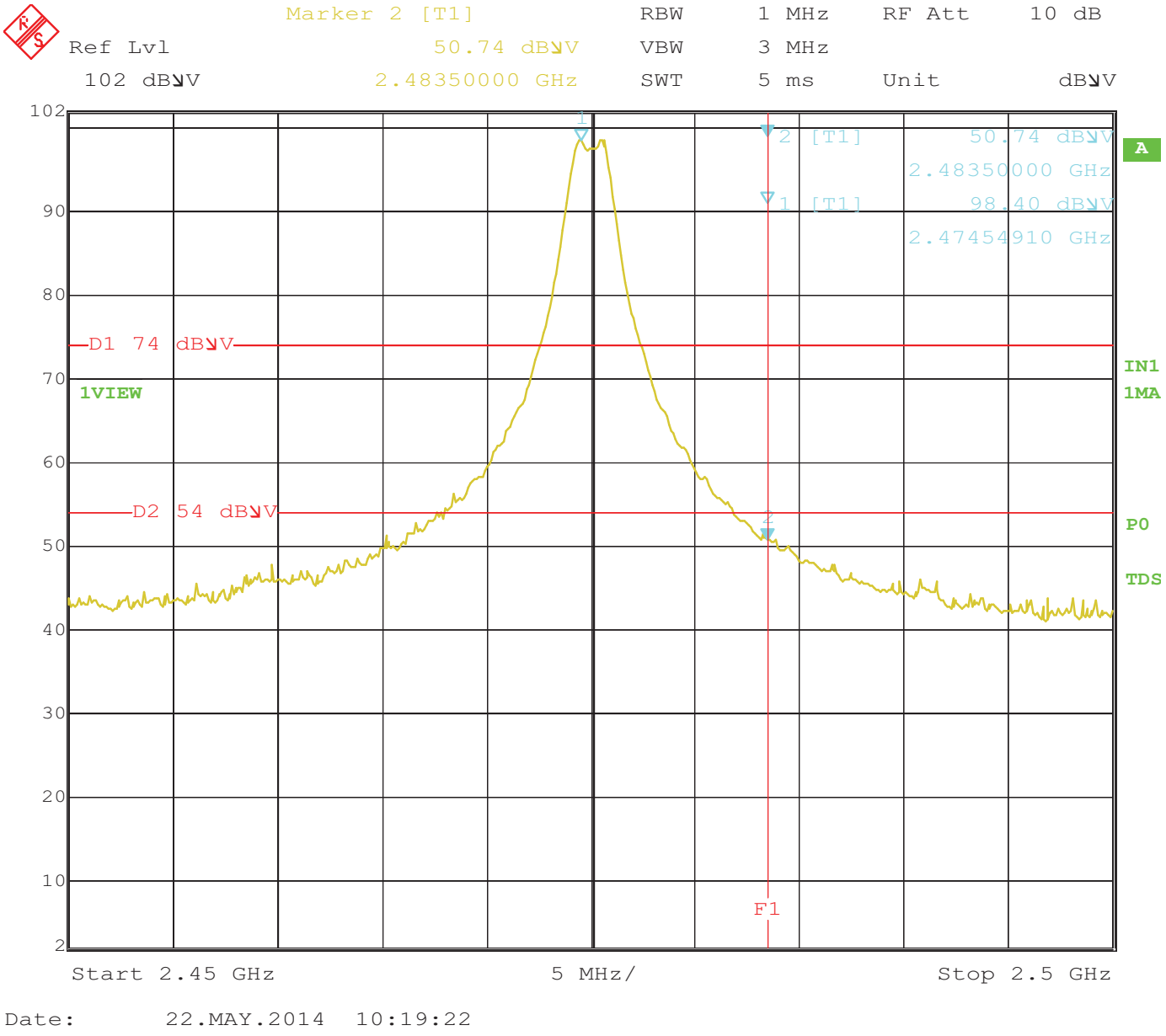
Band Edge – Vertical Polarization – Low Channel – Y-Axis (Worst Case) – Antenna 0



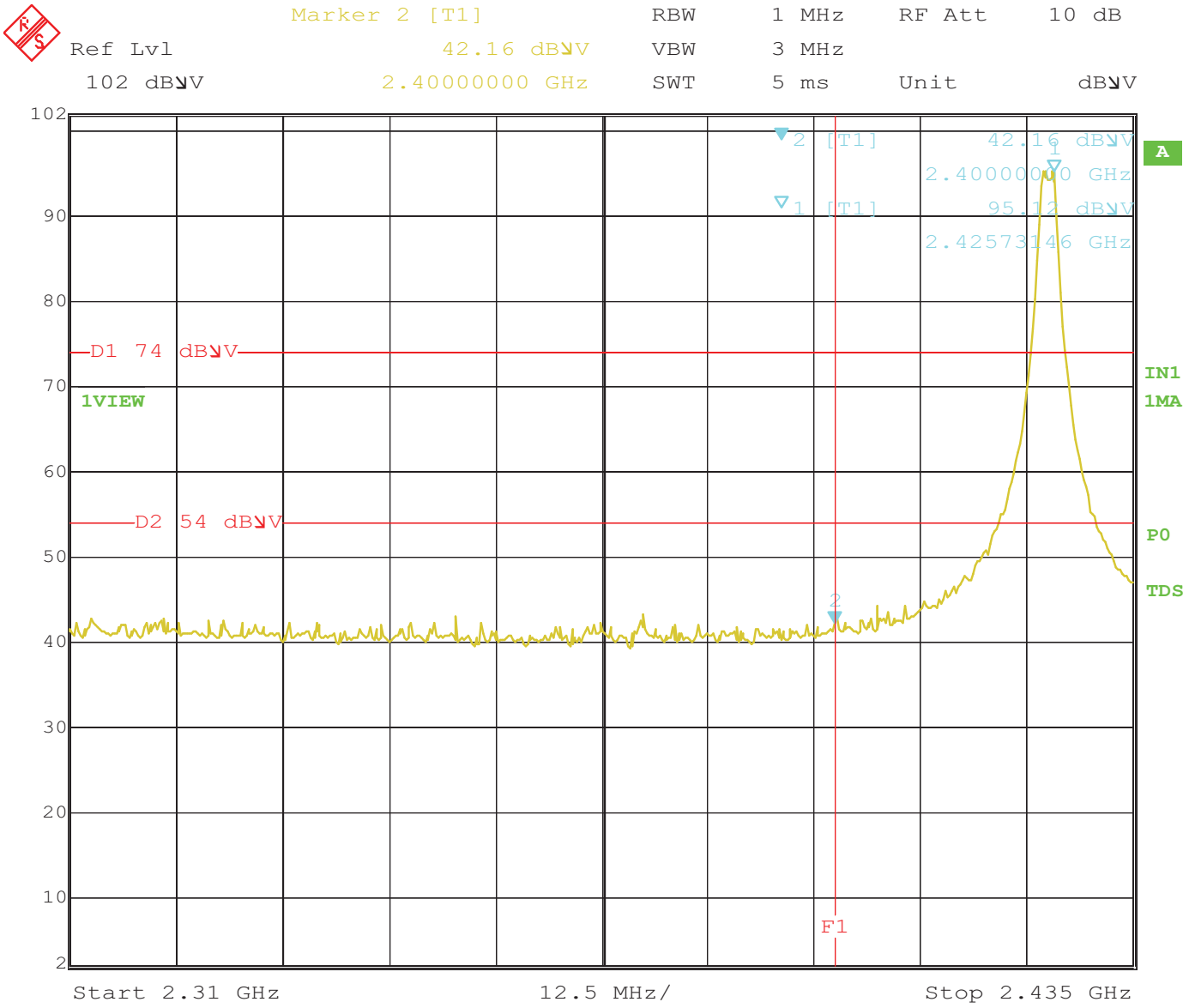
Band Edge – Vertical Polarization – High Channel – Y-Axis (Worst Case) – Antenna 0



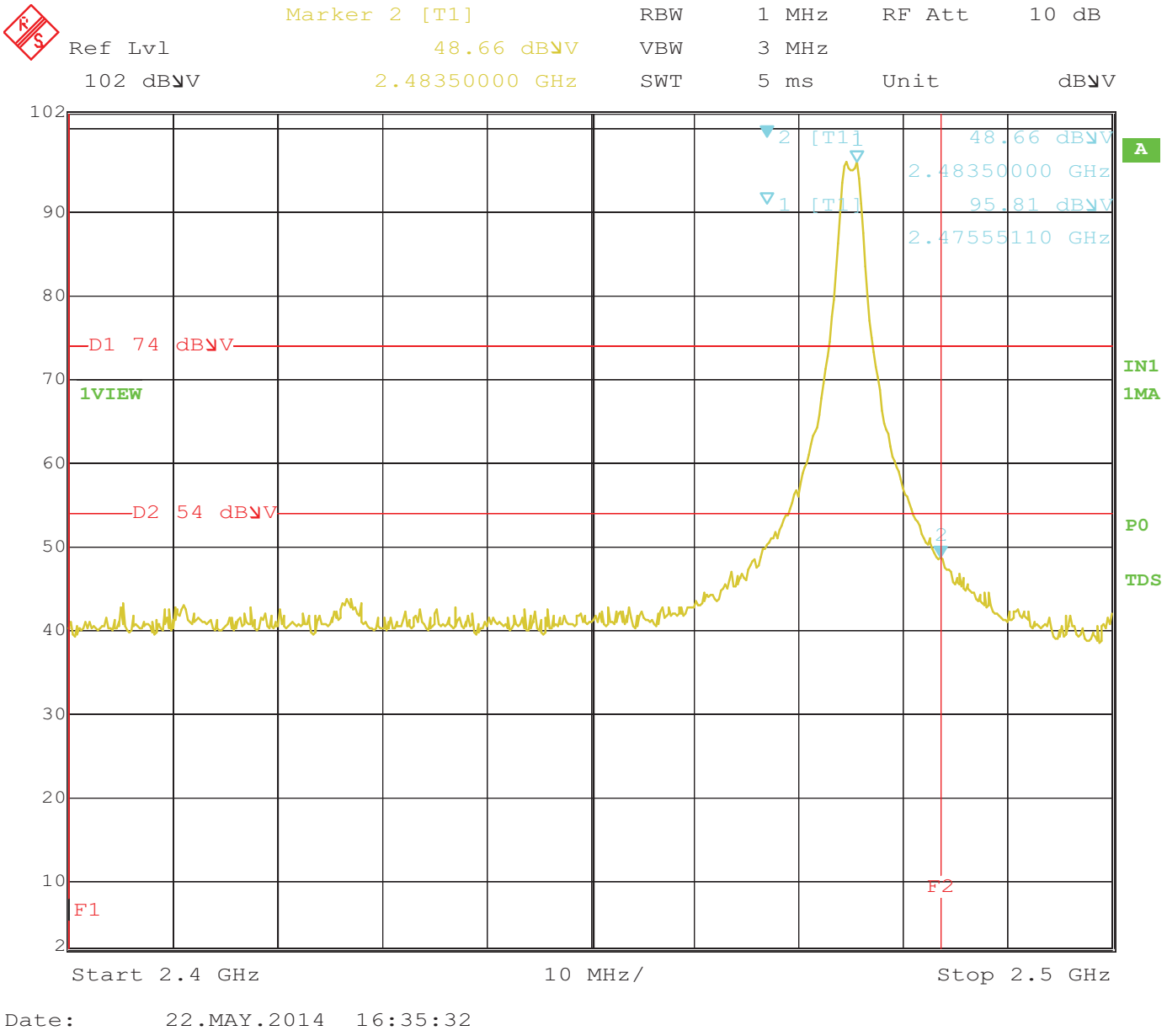
Band Edge – Horizontal Polarization – Low Channel – X-Axis (Worst Case) – Antenna 0



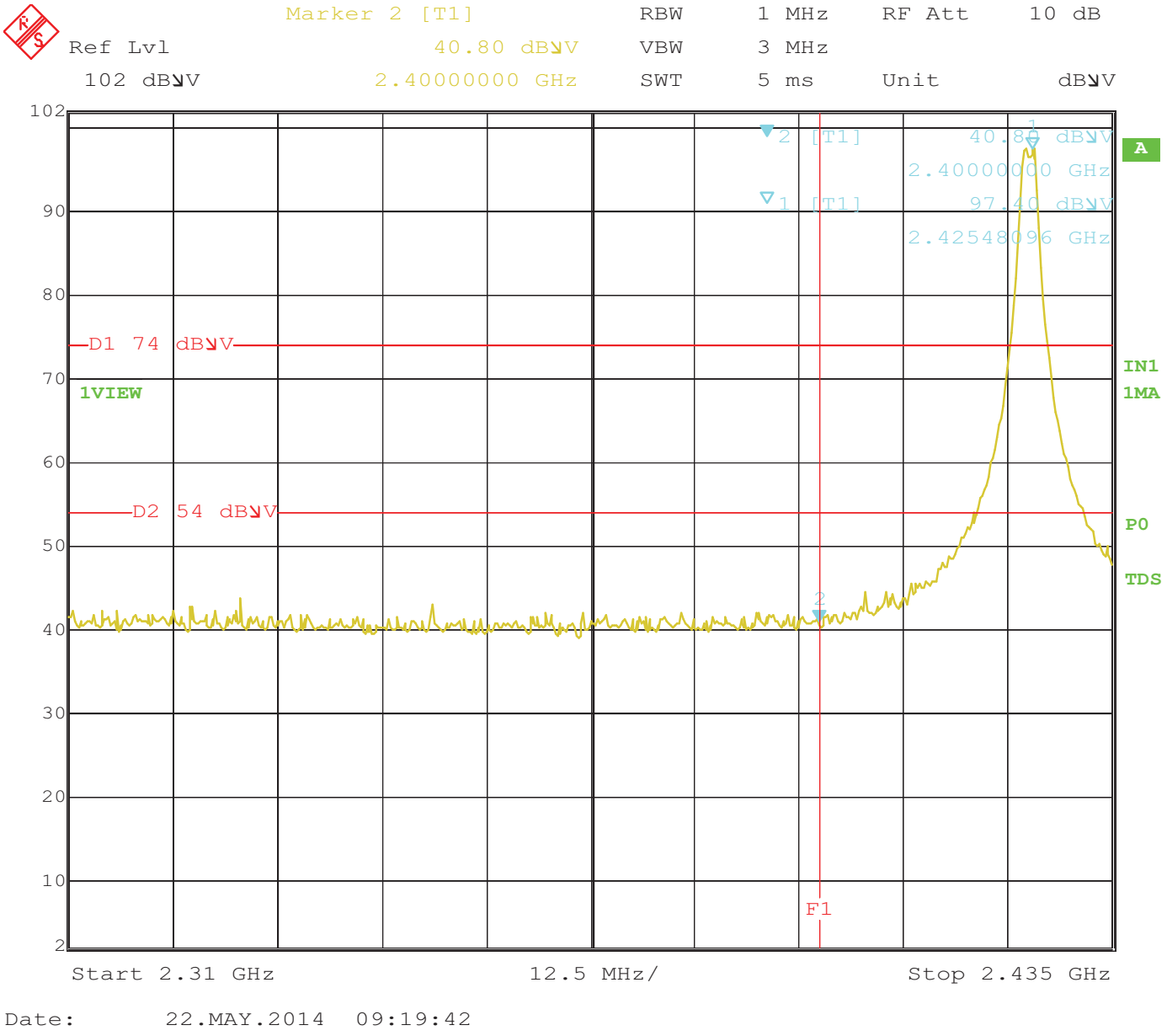
Band Edge – Horizontal Polarization – High Channel – X-Axis (Worst Case) – Antenna 0



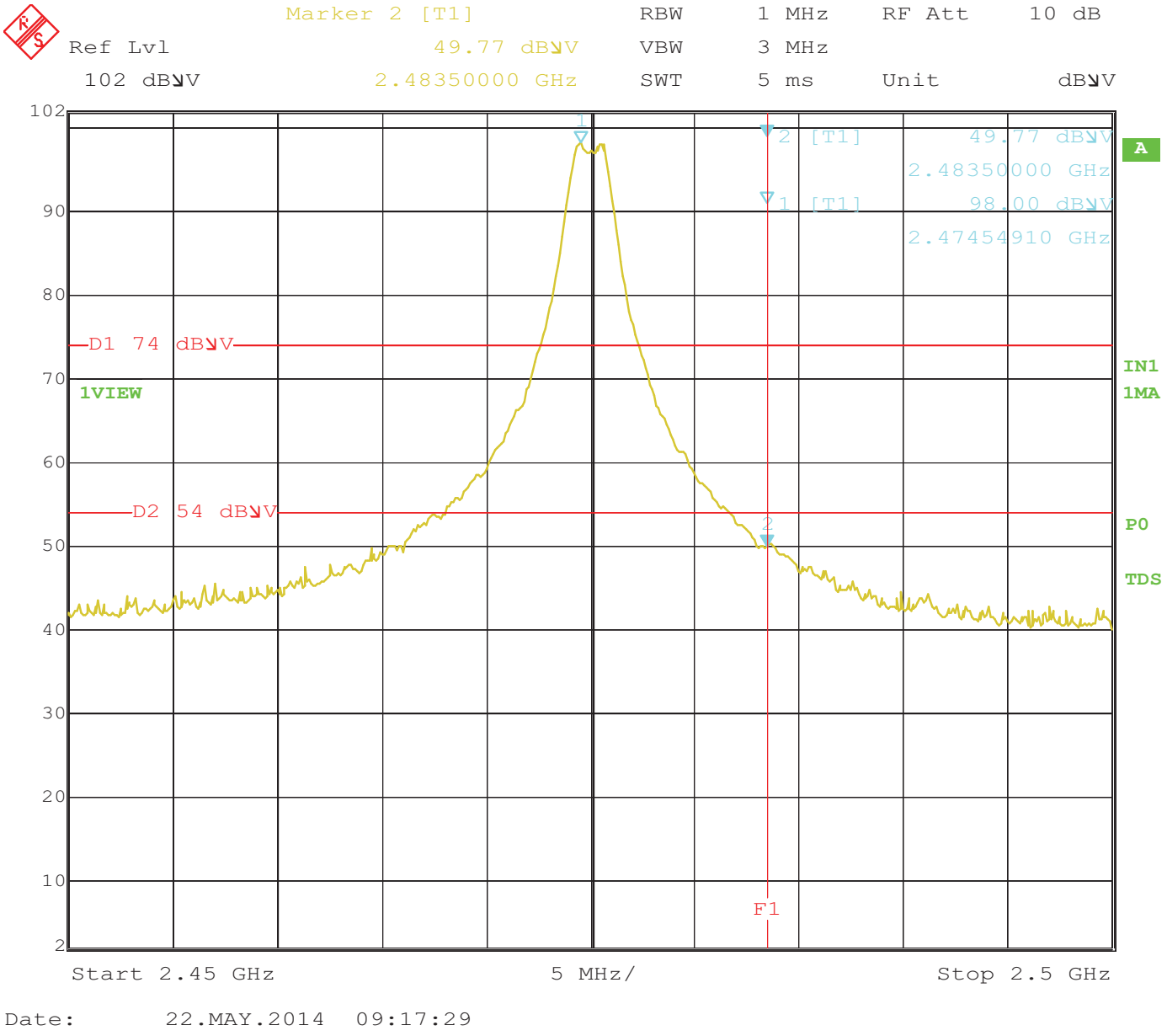
Band Edge – Vertical Polarization – Low Channel – Z-Axis (Worst Case) – Antenna 1



Band Edge – Vertical Polarization – High Channel – Y-Axis (Worst Case) – Antenna 1



Band Edge – Horizontal Polarization – Low Channel –X-Axis (Worst Case) – Antenna 1



Band Edge – Horizontal Polarization – High Channel – X-Axis (Worst Case) – Antenna 1