

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

*for*

COMCAST XR15 REMOTE 2015  
 MODEL: URC-4352BC0-X-R

Prepared for

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DATE: OCTOBER 12, 2016

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
PAGES	17	2	2	2	13	60	96

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## GENERAL REPORT SUMMARY

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

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

This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: Comcast XR15 Remote 2015  
Models: URC-4352BC0-X-R  
S/N: N/A

Product Description: The EUT is a voice remote control used for various Comcast cable systems.

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

Customer: Universal Electronics, Inc.  
201 Sandpointe Ave, 8<sup>th</sup> Floor  
Santa Ana, California 92707

Test Dates: September 8, 9, and 10, 2016

Test Specification covered by accreditation:



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: 2014 and ANSI C63.10: 2013

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

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**SUMMARY OF TEST RESULTS**

<i>TEST</i>	<b>DESCRIPTION</b>	<b>RESULTS</b>
1	Spurious Radiated RF Emissions, 10 kHz – 25000 MHz (Transmitter, Receiver, and Digital portion)	Complies with the <b>Class B</b> limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.249 <small>Highest reading in relation to spec limit: 50.51 dBuV/m @ 7275MHz (*U = 4.54 dB)</small>



**1. PURPOSE**

This document is a qualification test report based on the emissions tests performed on the Comcast XR15 Remote 2015, Model: URC-4352BC0-X-R. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4 and ANSI C63.10. 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; and Subpart C, sections 15.205, 15.207, 15.209, and 15.249.





### 3. APPLICABLE DOCUMENTS

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

<b>SPEC</b>	<b>TITLE</b>
FCC Title 47, Part 15 Subpart C	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators
FCC Title 47, Part 15 Subpart B	FCC Rules – Radio frequency devices (including digital devices) – Unintentional Radiators
EN 50147-2: 1997	Anechoic chambers. Alternative test site suitability with respect to site attenuation
ANSI C63.4 2014	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
ANSI C63.10 2013	American National Standard for Testing Unlicensed Wireless Devices



#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description of Test Configuration – Emissions**

The Comcast XR15 Remote 2015, Model: URC-4352BC0-X-R (EUT) was tested as a stand alone device. A fresh set of batteries were inserted in the EUT prior to the testing.

The EUT was tested for emissions at the low, middle, and high channels while in the X, Y and Z axis. During the testing, the EUT was continuously transmitting.

The EUT was placed in a special modulated test mode to allow for continuously transmit via the GreenPeak ZigBee 3.0 SDK. The laptop for the test software was only used to program the EUT and then was removed during the testing.

The X orientation is when the EUT is parallel to the ground. The Y orientation is when the EUT is perpendicular to the ground mounted vertically. The Z orientation is when the EUT is perpendicular to the ground mounted horizontally.

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

##### **4.1.1 Cable Construction and Termination**

The EUT has no external cables.

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

<b>EQUIPMENT</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FCC ID</b>
COMCAST XR15 REMOTE 2015	UNIVERSAL ELCTRONICS, INC.	URC-4352BC0-X-R	N/A	MG3-4352
TEST SOFTWARE FOR EUT	GREENPEAK TECHNOLOGIES	ZIGBEE 3.0 SDK	N/A	N/A
LAPTOP FOR TEST SOFTWARE	DELL	X436M A01	N/A	N/A

## 5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
<b>GENERAL TEST EQUIPMENT USED IN LAB D</b>					
TDK TestLab	TDK RF Solutions, Inc.	9.22	700145	N/A	N/A
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	MY51210150	December 29, 2015	1 Year
<b>RF RADIATED EMISSIONS TEST EQUIPMENT</b>					
CombiLog Antenna	Com-Power	AC-220	61060	September 3, 2015	1 Year
Preamplifier	Com-Power	PAM-118A	551024	May 12, 2016	1 Year
Loop Antenna	Com-Power	AL-130	17089	February 6, 2015	2 Year
Horn Antenna	Com-Power	AH-118	071175	February 26, 2016	2 Year
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
Preamplifier	Com-Power	PA-840	711013	May 13, 2016	1 Year
Horn Antenna	Com-Power	AH-826	71957	N/A	N/A

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

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

**6.2 EUT Mounting, Bonding and Grounding**

**For frequencies 1 GHz and below:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

**For frequencies above 1 GHz:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 1.5 meters above the ground plane.

The EUT was not grounded.

## 7. TEST PROCEDURES

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

### 7.1 RF Emissions

#### 7.1.1 Conducted Emissions Test

The EMI Receiver was used as a measuring meter. A quasi-peak and/or average reading was taken only where indicated in the data sheets. A transient limiter was used for the protection of the EMI Receiver input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the EMI 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 63:4. 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 computer software. The final qualification data is located in Appendix E.

#### **Test Results:**

This test was not performed for the EUT is battery powered and does not connect to the AC power mains.

## 7.1.2 Radiated Emissions Test

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 with 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 effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 10 kHz to 150 kHz, 9 kHz for 150 kHz to 30 MHz, 120 kHz for 30 MHz to 1 GHz and 1 MHz for 1 GHz to 9.3 GHz).

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with 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 gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The EUT was tested at a 3-meter test distance. The six highest emissions are listed in Table 2.0.

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	Loop Antenna
150 kHz to 30 MHz	9 kHz	Loop Antenna
30 MHz to 1 GHz	120 kHz	CombiLog Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

### Test Results:

The EUT 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 for radiated emissions.

**7.1.3 RF Emissions Test Results**Table 1.0 RADIATED EMISSION RESULTS  
Comcast XR15 Remote 2015  
Model: URC-4352BC0-X-R

Frequency MHz	EMI Reading (dBuV/m)	Specification Limit (dBuV)	Delta (Cor. Reading – Spec. Limit) dB
7275 (V) (Y-Axis) (Ant 1)	50.51 (AVG)	53.97	-3.46
7275 (H) (Y-Axis) (Ant 0)	49.87 (AVG)	53.97	-4.10
7275 (H) (Z-Axis) (Ant 1)	49.81 (AVG)	53.97	-4.16
4900 (V) (Z-Axis) (Ant 1)	49.71 (AVG)	53.97	-4.26
7275 (V) (X-Axis) (Ant 1)	49.64 (AVG)	53.97	-4.33
4900 (H) (Z-Axis) (Ant 0)	49.20 (AVG)	53.97	-4.77

## Notes:

- \* The complete emissions data is given in Appendix E of this report.
- (BL) Black Lead
- (WL) White Lead
- (V) Vertical
- (H) Horizontal
- (QP) Quasi-Peak
- (Avg) Average

## 7.2 Fundamental Field Strength (Duty Cycle Calculations)

The Peak Transmit Radiated Field Strength was measured at a 3-meter test distance. The EMI Receiver was used to obtain the duty cycle. The data sheets are located in Appendix E.

Where

$$\delta(\text{dB}) = 20 \log \left[ \frac{\sum (nt_1 + mt_2 + \dots + \xi t_x)}{T} \right]$$

$n$  is the number of pulses of duration  $t_1$

$m$  is the number of pulses of duration  $t_2$

$\xi$  is the number of pulses of duration  $t_x$

$T$  is the period of the pulse train or 100 ms if the pulse train length is greater than 100 ms

Duty Cycle Correction Factor = -20.00 dB

The EUT was tested in both advertising and data modes. Please see Appendix E for the data sheets and more detailed explanation of how the duty cycle was derived.



**8. CONCLUSIONS**

The Comcast XR15 Remote 2015, Model: URC-4352BC0-X-R, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.





**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**  
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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 CODE 200528-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025.

**For the most up-to-date version of our scopes and certificates please visit**

**<http://celectronics.com/quality/scope/>**

Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment 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](#)

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VCCI Support member: Please visit [http://www.vcci.jp/vcci\\_e/](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  
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**APPENDIX B**

***MODIFICATIONS TO THE EUT***

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## **MODIFICATIONS TO THE EUT**

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.249 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***

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**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

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

USED FOR THE PRIMARY TEST

Comcast XR15 Remote 2015  
Model: URC-4352BC0-X-R  
S/N: N/A

There are no additional models covered under this report.

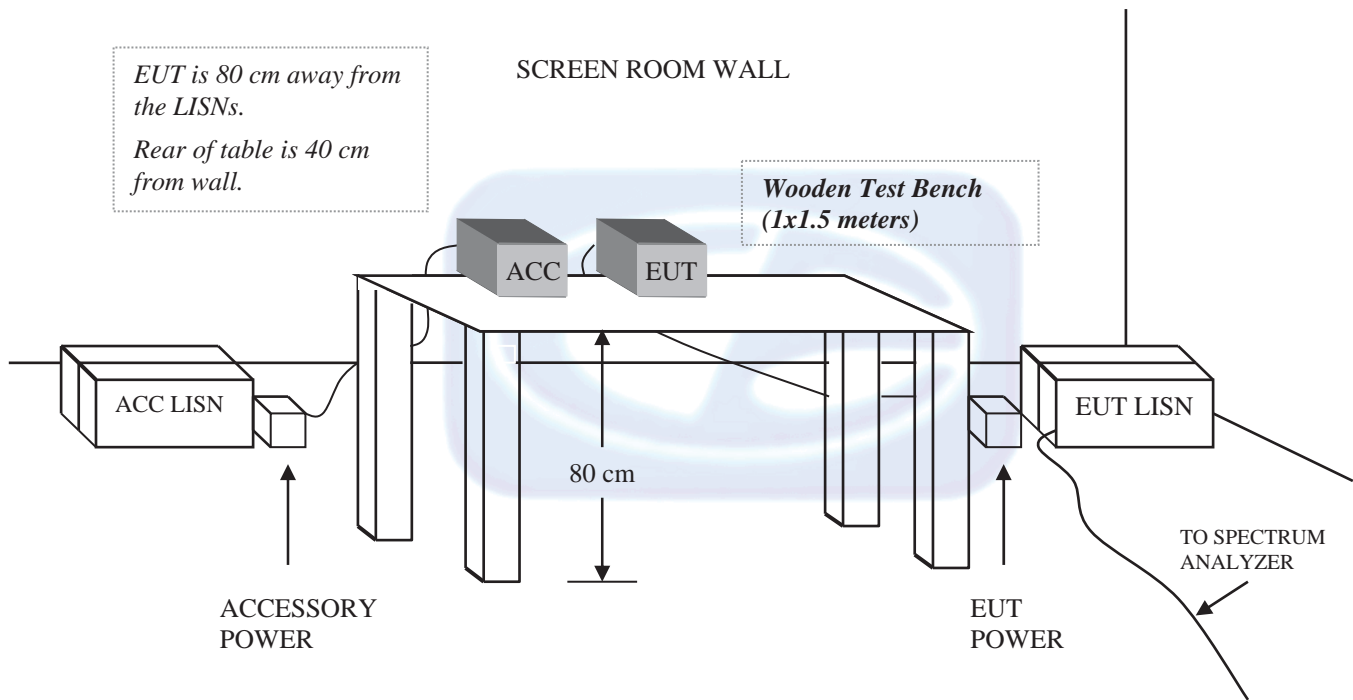


**APPENDIX D**

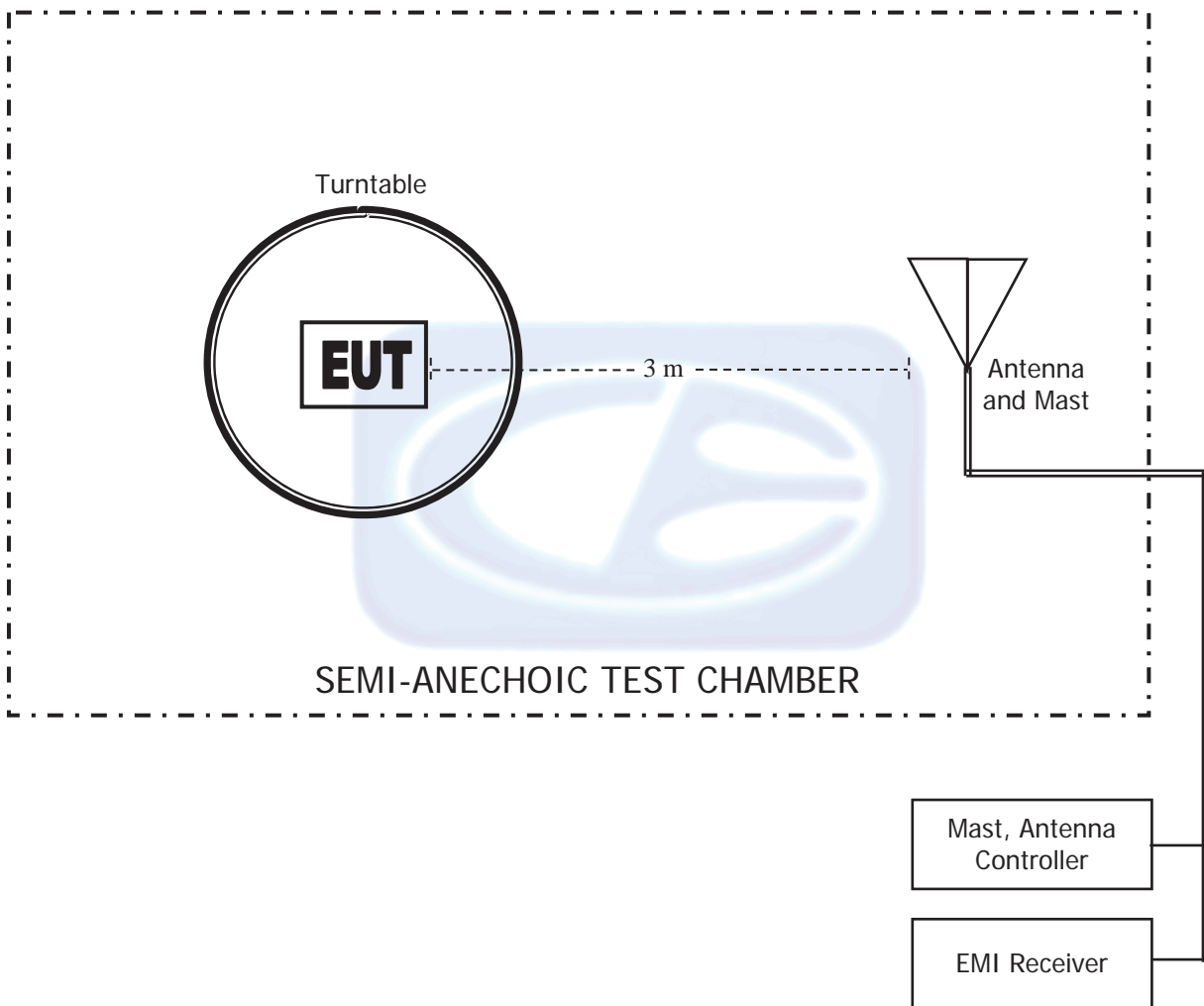
***DIAGRAMS AND CHARTS***



**FIGURE 1: CONDUCTED EMISSIONS TEST SETUP**



**FIGURE 2: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER**



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

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

<b>FREQUENCY (MHz)</b>	<b>MAGNETIC (dB/m)</b>	<b>ELECTRIC (dB/m)</b>
0.009	-33.18	18.32
0.01	-34.10	17.40
0.02	-38.65	12.85
0.03	-39.28	12.22
0.04	-40.09	11.41
0.05	-40.85	10.65
0.06	-40.88	10.62
0.07	-41.07	10.43
0.08	-41.04	10.46
0.09	-41.19	10.31
0.1	-41.20	10.30
0.2	-41.52	9.98
0.3	-41.53	9.97
0.4	-41.42	10.08
0.5	-41.53	9.97
0.6	-41.53	9.97
0.7	-41.43	10.07
0.8	-41.23	10.27
0.9	-41.13	10.37
1	-41.14	10.36
2	-40.80	10.70
3	-40.66	10.84
4	-40.61	10.89
5	-40.33	11.17
6	-40.53	10.97
7	-40.47	11.03
8	-40.48	11.02
9	-39.93	11.57
10	-39.81	11.69
15	-43.35	8.15
20	-39.16	12.34
25	-40.24	11.26
30	-43.18	8.32

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: SEPTEMBER 3, 2015

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	24.00	200	13.00
35	24.30	250	15.30
40	25.40	300	18.20
45	21.50	350	17.90
50	22.50	400	18.60
60	15.40	450	19.80
70	12.70	500	21.60
80	11.10	550	22.40
90	13.40	600	23.70
100	13.80	650	24.30
120	15.40	700	24.00
125	15.40	750	24.50
140	13.10	800	24.30
150	17.20	850	26.30
160	13.20	900	26.90
175	14.20	950	26.00
180	14.30	1000	25.60

**COM POWER AH-118****HORN ANTENNA**

S/N: 071175

CALIBRATION DATE: FEBRUARY 26, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	23.93	10.0	39.33
1.5	25.54	10.5	39.64
2.0	28.09	11.0	41.04
2.5	30.21	11.5	44.29
3.0	30.15	12.0	41.22
3.5	30.17	12.5	41.50
4.0	31.90	13.0	41.62
4.5	33.51	13.5	40.63
5.0	33.87	14.0	39.94
5.5	35.08	14.5	41.84
6.0	34.81	15.0	42.69
6.5	34.26	15.5	39.03
7.0	36.33	16.0	39.07
7.5	37.03	16.5	41.40
8.0	37.56	17.0	43.18
8.5	40.07	17.5	47.01
9.0	38.92	18.0	46.48
9.5	38.21		

**COM-POWER PA-118****PREAMPLIFIER**

S/N: 551024

CALIBRATION DATE: MAY 12, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	39.84	6.0	39.05
1.1	39.40	6.5	38.94
1.2	39.58	7.0	39.25
1.3	39.68	7.5	39.09
1.4	39.91	8.0	39.01
1.5	39.78	8.5	38.60
1.6	39.50	9.0	38.64
1.7	39.81	9.5	39.67
1.8	39.89	10.0	39.30
1.9	39.94	11.0	39.15
2.0	39.57	12.0	39.24
2.5	40.39	13.0	39.49
3.0	40.63	14.0	39.44
3.5	40.80	15.0	39.94
4.0	40.86	16.0	40.09
4.5	39.94	17.0	40.06
5.0	34.47	18.0	39.76
5.5	39.32		

**COM-POWER AH-826****HORN ANTENNA**

S/N: 71957

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
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

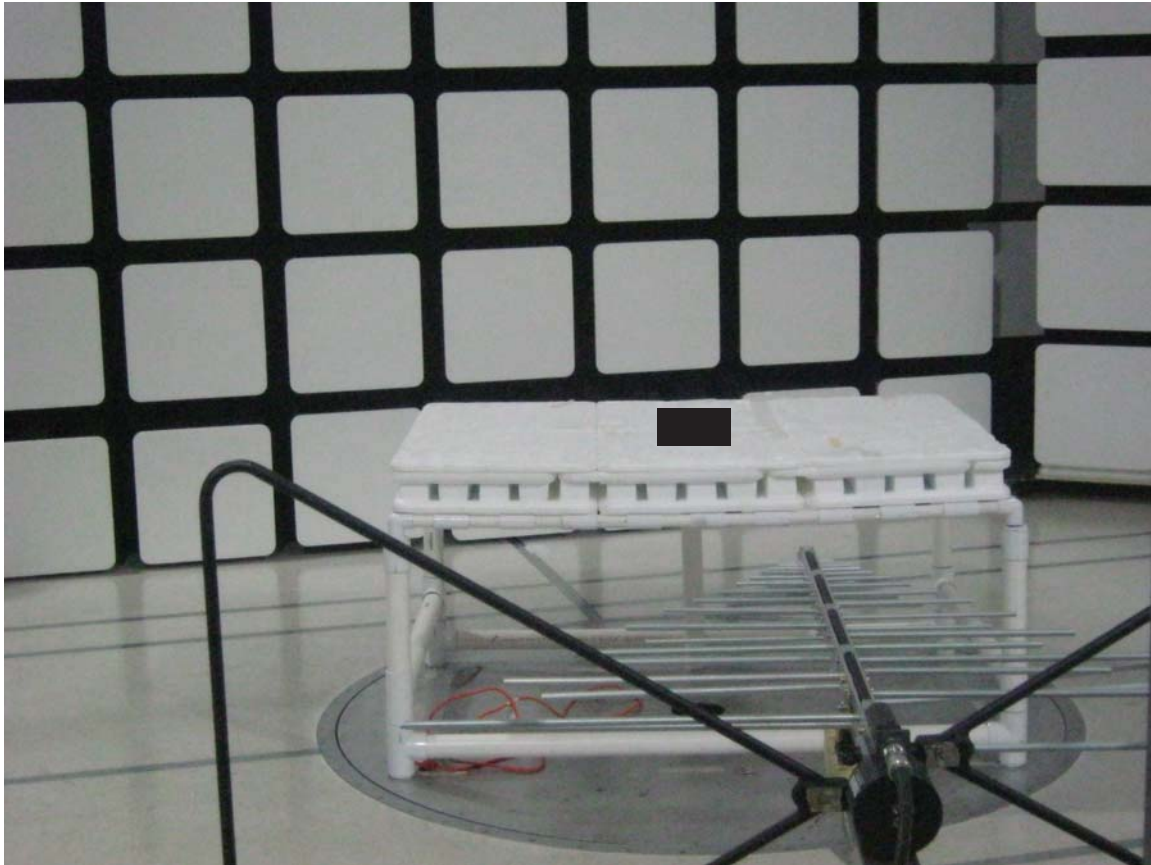
**COM-POWER PA-840****MICROWAVE PREAMPLIFIER**

S/N: 711013

CALIBRATION DATE: MAY 13, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
18.0	25.19	31.0	25.69
19.0	24.48	31.5	25.74
20.0	24.39	32.0	26.35
21.0	24.73	32.5	26.64
22.0	23.49	33.0	25.98
23.0	24.23	33.5	24.68
24.0	24.59	34.0	24.61
25.0	25.32	34.5	23.78
26.0	25.66	35.0	24.74
26.5	25.99	35.5	24.39
27.0	26.26	36.0	23.46
27.5	25.33	36.5	23.71
28.0	24.49	37.0	26.35
28.5	24.74	37.5	23.49
29.0	25.93	38.0	25.42
29.5	26.28	38.5	24.87
30.0	26.17	39.0	22.60
30.5	26.11	39.5	20.57
		40.0	19.15

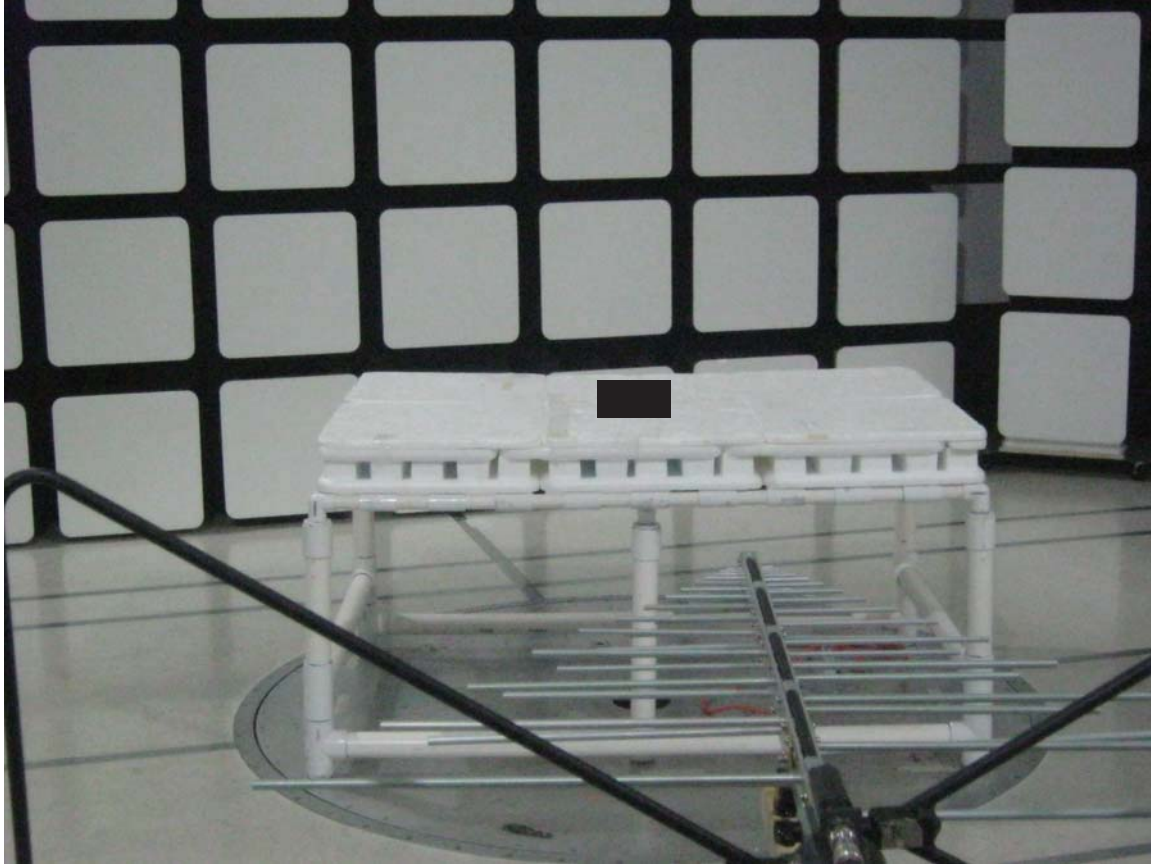




**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC  
COMCAST XR15 REMOTE 2015  
MODEL: URC-4352BC0-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 XR15 REMOTE 2015  
MODEL: URC-4352BC0-X-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

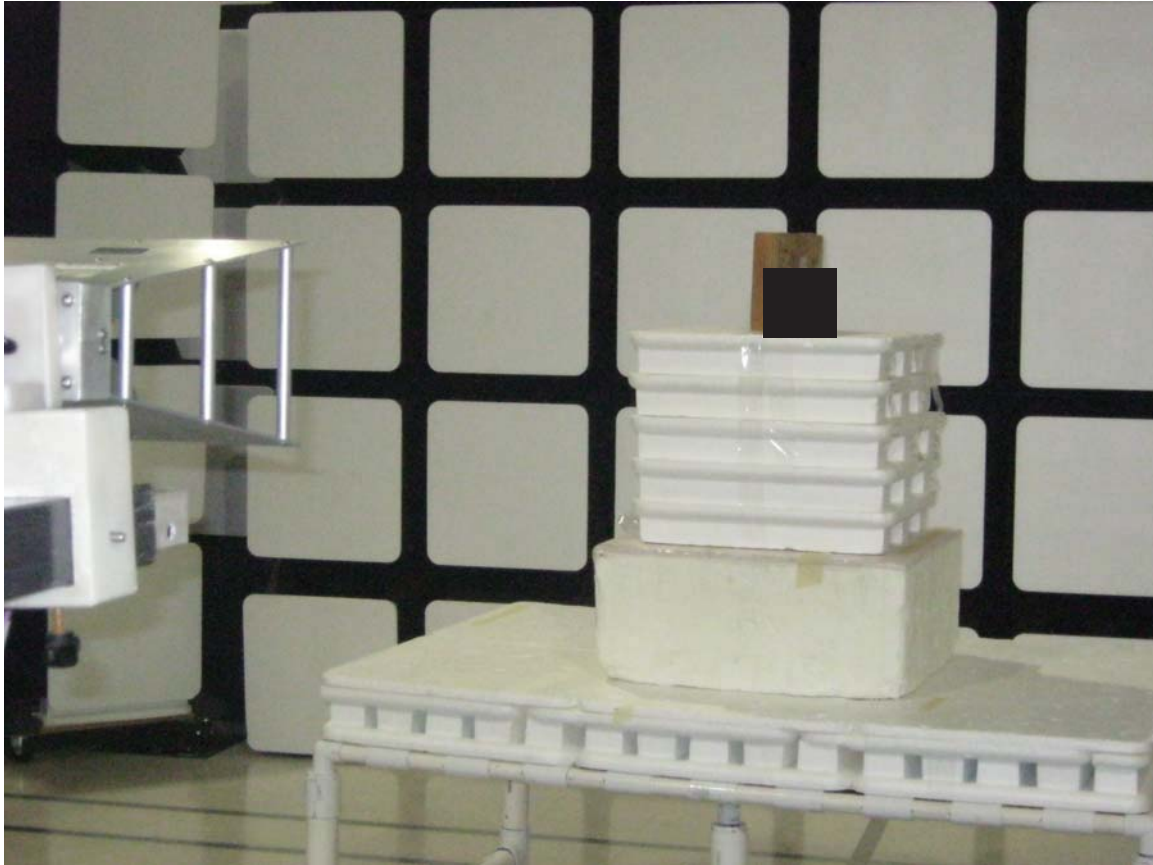
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC  
COMCAST XR15 REMOTE 2015  
MODEL: URC-4352BC0-X-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

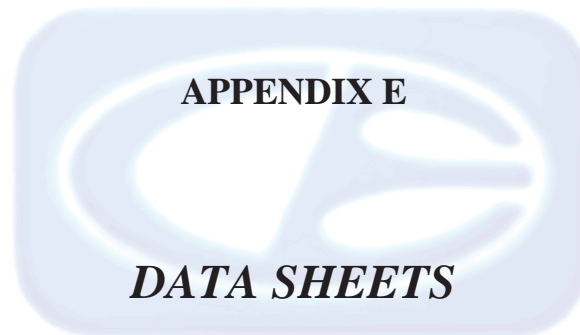
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

UNIVERSAL ELECTRONICS, INC  
COMCAST XR15 REMOTE 2015  
MODEL: URC-4352BC0-X-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

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





***RADIATED EMISSIONS  
DATA SHEETS***

**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	88.28	V	113.97	-25.69	Peak	145.00	100.00	
2425	68.28	V	93.97	-25.69	Avg	145.00	100.00	
4850	65.56	V	73.97	-8.41	Peak	342.00	144.00	
4850	45.56	V	53.97	-8.41	Avg	342.00	144.00	
7275	67.27	V	73.97	-6.70	Peak	248.00	228.00	
7275	47.27	V	53.97	-6.70	Avg	248.00	228.00	
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	102.12	H	113.97	-11.85	Peak	0.00	141.40	
2425	82.12	H	93.97	-11.85	Avg	0.00	141.40	
4850	62.50	H	73.97	-11.47	Peak	130.00	100.00	
4850	42.50	H	53.97	-11.47	Avg	130.00	100.00	
7275	64.73	H	73.97	-9.24	Peak	126.00	102.00	
7275	44.73	H	53.97	-9.24	Avg	126.00	102.00	
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	88.96	V	113.97	-25.02	Peak	153.00	100.00	
2425	68.96	V	93.97	-25.02	Avg	153.00	100.00	
4850	62.44	V	73.97	-11.53	Peak	179.00	115.00	
4850	42.44	V	53.97	-11.53	Avg	179.00	115.00	
7275	69.20	V	73.97	-4.77	Peak	272.00	125.00	
7275	49.20	V	53.97	-4.77	Avg	272.00	125.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	97.61	H	113.97	-16.37	Peak	180.00	122.00	
2425	77.61	H	93.97	-16.37	Avg	180.00	122.00	
4850	65.61	H	73.97	-8.36	Peak	350.00	140.00	
4850	45.61	H	53.97	-8.36	Avg	350.00	140.00	
7275	69.87	H	73.97	-4.10	Peak	139.00	100.00	
7275	49.87	H	53.97	-4.10	Avg	139.00	100.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	102.39	V	113.97	-11.58	Peak	0.00	170.00	
2425	82.39	V	93.97	-11.58	Avg	0.00	170.00	
4850	66.06	V	73.97	-7.91	Peak	247.00	141.00	
4850	46.06	V	53.97	-7.91	Avg	247.00	141.00	
7275	68.87	V	73.97	-5.10	Peak	289.00	110.00	
7275	48.87	V	53.97	-5.10	Avg	289.00	110.00	
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Low Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	90.72	H	113.97	-23.25	Peak	79.50	168.00	
2425	70.72	H	93.97	-23.25	Avg	79.50	168.00	
4850	67.26	H	73.97	-6.72	Peak	167.00	155.00	
4850	47.26	H	53.97	-6.72	Avg	167.00	155.00	
7275	65.18	H	73.97	-8.79	Peak	228.50	100.00	
7275	45.18	H	53.97	-8.79	Avg	228.50	100.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	90.13	V	113.97	-23.84	Peak	185.00	140.00	
2450	70.13	V	93.97	-23.84	Avg	185.00	140.00	
4900	67.54	V	73.97	-6.43	Peak	351.00	178.00	
4900	47.54	V	53.97	-6.43	Avg	351.00	178.00	
7350	60.26	V	73.97	-13.71	Peak	174.00	114.00	
7350	40.26	V	53.97	-13.71	Avg	174.00	114.00	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	103.70	H	113.97	-10.27	Peak	194.00	145.00	
2450	83.70	H	93.97	-10.27	Avg	194.00	145.00	
4900	63.87	H	73.97	-10.10	Peak	4.00	100.00	
4900	43.87	H	53.97	-10.10	Avg	4.00	100.00	
7350	61.20	H	73.97	-12.77	Peak	196.50	100.00	
7350	41.20	H	53.97	-12.77	Avg	196.50	100.00	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	90.14	V	113.97	-23.83	Peak	93.00	100.00	
2450	70.14	V	93.97	-23.83	Avg	93.00	100.00	
4900	63.60	V	73.97	-10.37	Peak	238.00	100.00	
4900	43.60	V	53.97	-10.37	Avg	238.00	100.00	
7350	64.10	V	73.97	-9.87	Peak	257.00	100.00	
7350	44.10	V	53.97	-9.87	Avg	257.00	100.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	98.38	H	113.97	-15.59	Peak	187.00	163.00	
2450	78.38	H	93.97	-15.59	Avg	187.00	163.00	
4900	66.75	H	73.97	-7.22	Peak	10.00	120.00	
4900	46.75	H	53.97	-7.22	Avg	10.00	120.00	
7350	67.04	H	73.97	-6.94	Peak	166.00	115.00	
7350	47.04	H	53.97	-6.94	Avg	166.00	115.00	
9800								No Emission Detected
9800								
12250								No Emission Detected
12250								
14700								No Emission Detected
14700								
17150								No Emission Detected
17150								
19600								No Emission Detected
19600								
22050								No Emission Detected
22050								
24500								No Emission Detected
24500								



**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	102.58	V	113.97	-11.39	Peak	355.00	220.00	
2450	82.58	V	93.97	-11.39	Avg	355.00	220.00	
4900	67.57	V	73.97	-6.40	Peak	290.00	150.00	
4900	47.57	V	53.97	-6.40	Avg	290.00	150.00	
7350	64.90	V	73.97	-9.07	Peak	321.00	100.00	
7350	44.90	V	53.97	-9.07	Avg	321.00	100.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Dates: 09/08/2016 and 09/09/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**Middle Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	93.06	H	113.97	-20.92	Peak	285.00	209.00	
2450	73.06	H	93.97	-20.92	Avg	285.00	209.00	
4900	69.20	H	73.97	-4.77	Peak	225.00	135.00	
4900	49.20	H	53.97	-4.77	Avg	225.00	135.00	
7350	61.98	H	73.97	-11.99	Peak	277.00	160.00	
7350	41.98	H	53.97	-11.99	Avg	277.00	160.00	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	87.09	V	113.97	-26.88	Peak	130.00	100.00	
2475	67.09	V	93.97	-26.88	Avg	130.00	100.00	
4950	57.14	V	73.97	-16.83	Peak	160.00	165.00	
4950	37.14	V	53.97	-16.83	Avg	160.00	165.00	
7425	55.28	V	73.97	-18.69	Peak	262.00	240.00	
7425	35.28	V	53.97	-18.69	Avg	262.00	240.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	100.85	H	113.97	-13.12	Peak	10.00	100.00	
2475	80.85	H	93.97	-13.12	Avg	10.00	100.00	
4950	54.19	H	73.97	-19.78	Peak	135.00	100.00	
4950	34.19	H	53.97	-19.78	Avg	135.00	100.00	
7425	50.99	H	73.97	-22.98	Peak	192.00	100.00	
7425	30.99	H	53.97	-22.98	Avg	192.00	100.00	
9900								No Emission Detected
12375								No Emission Detected
14850								No Emission Detected
17325								No Emission Detected
19800								No Emission Detected
22275								No Emission Detected
24750								No Emission Detected

**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	91.09	V	113.97	-22.88	Peak	220.00	245.00	
2475	71.09	V	93.97	-22.88	Avg	220.00	245.00	
4950	53.09	V	73.97	-20.88	Peak	305.00	250.00	
4950	33.09	V	53.97	-20.88	Avg	305.00	250.00	
7425	52.71	V	73.97	-21.26	Peak	195.00	100.00	
7425	32.71	V	53.97	-21.26	Avg	195.00	100.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	95.68	H	113.97	-18.29	Peak	190.00	180.00	
2475	75.68	H	93.97	-18.29	Avg	190.00	180.00	
4950	54.84	H	73.97	-19.13	Peak	5.00	150.00	
4950	34.84	H	53.97	-19.13	Avg	5.00	150.00	
7425	56.26	H	73.97	-17.71	Peak	138.00	125.00	
7425	36.26	H	53.97	-17.71	Avg	138.00	125.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	99.56	V	113.97	-14.41	Peak	0.00	150.00	
2475	79.56	V	93.97	-14.41	Avg	0.00	150.00	
4950	55.74	V	73.97	-18.23	Peak	238.00	182.00	
4950	35.74	V	53.97	-18.23	Avg	238.00	182.00	
7425	53.88	V	73.97	-20.09	Peak	303.00	236.00	
7425	33.88	V	53.97	-20.09	Avg	303.00	236.00	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: James Ross

**Antenna 0**  
**High Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	89.71	H	113.97	-24.26	Peak	278.00	182.00	
2475	69.71	H	93.97	-24.26	Avg	278.00	182.00	
4950	57.50	H	73.97	-16.47	Peak	171.00	135.00	
4950	37.50	H	53.97	-16.47	Avg	171.00	135.00	
7425	52.72	H	73.97	-21.25	Peak	299.00	100.00	
7425	32.72	H	53.97	-21.25	Avg	299.00	100.00	
9900								No Emission Detected
12375								No Emission Detected
14850								No Emission Detected
17325								No Emission Detected
19800								No Emission Detected
22275								No Emission Detected
24750								No Emission Detected





**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	89.39	V	113.97	-24.58	Peak	0.50	110.00	
2425	69.39	V	93.97	-24.58	Avg	0.50	110.00	
4850	60.41	V	73.97	-13.56	Peak	43.50	111.55	
4850	40.41	V	53.97	-13.56	Avg	43.50	111.55	
7275	69.64	V	73.97	-4.33	Peak	310.25	127.43	
7275	49.64	V	53.97	-4.33	Avg	310.25	127.43	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	100.34	H	113.97	-13.63	Peak	220.25	126.89	
2425	80.34	H	93.97	-13.63	Avg	220.25	126.89	
4850	66.97	H	73.97	-7.00	Peak	202.50	127.55	
4850	46.97	H	53.97	-7.00	Avg	202.50	127.55	
7275	67.63	H	73.97	-6.34	Peak	270.75	159.25	
7275	47.63	H	53.97	-6.34	Avg	270.75	159.25	
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	101.59	V	113.97	-12.38	Peak	0.00	126.77	
2425	81.59	V	93.97	-12.38	Avg	0.00	126.77	
4850	61.15	V	73.97	-12.82	Peak	87.25	111.19	
4850	41.15	V	53.97	-12.82	Avg	87.25	111.19	
7275	70.51	V	73.97	-3.46	Peak	193.00	111.49	
7275	50.51	V	53.97	-3.46	Avg	193.00	111.49	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	91.40	H	113.97	-22.57	Peak	285.50	206.77	
2425	71.40	H	93.97	-22.57	Avg	285.50	206.77	
4850	66.89	H	73.97	-7.08	Peak	45.50	127.43	
4850	46.89	H	53.97	-7.08	Avg	45.50	127.43	
7275	64.69	H	73.97	-9.28	Peak	105.00	127.49	
7275	44.69	H	53.97	-9.28	Avg	105.00	127.49	
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	94.64	V	113.97	-19.33	Peak	297.00	126.95	
2425	74.64	V	93.97	-19.33	Avg	297.00	126.95	
4850	66.34	V	73.97	-7.63	Peak	55.25	127.37	
4850	46.34	V	53.97	-7.63	Avg	55.25	127.37	
7275	66.33	V	73.97	-7.64	Peak	305.25	111.37	
7275	46.33	V	53.97	-7.64	Avg	305.25	111.37	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Low Channel**  
**Z-**  
**Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	96.91	H	113.97	-17.06	Peak	52.50	110.89	
2425	76.91	H	93.97	-17.06	Avg	52.50	110.89	
4850	66.88	H	73.97	-7.09	Peak	172.50	128.86	
4850	46.88	H	53.97	-7.09	Avg	172.50	128.86	
7275	69.81	H	73.97	-4.16	Peak	75.00	111.43	
7275	49.81	H	53.97	-4.16	Avg	75.00	111.43	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	90.70	V	113.97	-23.27	Peak	131.00	110.95	
2450	70.70	V	93.97	-23.27	Avg	131.00	110.95	
4900	57.62	V	73.97	-16.35	Peak	150.00	143.31	
4900	37.62	V	53.97	-16.35	Avg	150.00	143.31	
7350	65.56	V	73.97	-8.41	Peak	74.00	159.25	
7350	45.56	V	53.97	-8.41	Avg	74.00	159.25	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	102.35	H	113.97	-11.62	Peak	99.08	175.07	
2450	82.35	H	93.97	-11.62	Avg	99.08	175.07	
4900	65.06	H	73.97	-8.91	Peak	62.75	111.61	
4900	45.06	H	53.97	-8.91	Avg	62.75	111.61	
7350	66.68	H	73.97	-7.29	Peak	333.50	143.31	
7350	46.68	H	53.97	-7.29	Avg	333.50	143.31	
9800								No Emission Detected
9800								
12250								No Emission Detected
12250								
14700								No Emission Detected
14700								
17150								No Emission Detected
17150								
19600								No Emission Detected
19600								
22050								No Emission Detected
22050								
24500								No Emission Detected
24500								

**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	99.42	V	113.97	-14.55	Peak	344.75	127.13	
2450	79.42	V	93.97	-14.55	Avg	344.75	127.13	
4900	59.51	V	73.97	-14.46	Peak	153.50	144.32	
4900	39.51	V	53.97	-14.46	Avg	153.50	144.32	
7350	66.73	V	73.97	-7.24	Peak	136.50	113.10	
7350	46.73	V	53.97	-7.24	Avg	136.50	113.10	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	91.49	H	113.97	-22.48	Peak	183.00	111.55	
2450	71.49	H	93.97	-22.48	Avg	183.00	111.55	
4900	66.43	H	73.97	-7.54	Peak	230.00	144.14	
4900	46.43	H	53.97	-7.54	Avg	230.00	144.14	
7350	61.70	H	73.97	-12.27	Peak	51.75	112.08	
7350	41.70	H	53.97	-12.27	Avg	51.75	112.08	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	100.93	V	113.97	-13.04	Peak	1.25	222.77	
2450	80.93	V	93.97	-13.04	Avg	1.25	222.77	
4900	69.71	V	73.97	-4.26	Peak	181.00	142.29	
4900	49.71	V	53.97	-4.26	Avg	181.00	142.29	
7350	65.96	V	73.97	-8.01	Peak	200.75	127.79	
7350	45.96	V	53.97	-8.01	Avg	200.75	127.79	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**Middle Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	98.46	H	113.97	-15.51	Peak	330.25	110.77	
2450	78.46	H	93.97	-15.51	Avg	330.25	110.77	
4900	66.94	H	73.97	-7.03	Peak	216.25	128.50	
4900	46.94	H	53.97	-7.03	Avg	216.25	128.50	
7350	62.89	H	73.97	-11.08	Peak	69.00	112.74	
7350	42.89	H	53.97	-11.08	Avg	69.00	112.74	
9800								No Emission Detected
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.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

Antenna 1  
 High Channel  
 X-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	92.61	V	113.97	-21.36	Peak	215.25	110.71	
2475	72.61	V	93.97	-21.36	Avg	215.25	110.71	
4950	56.08	V	73.97	-17.89	Peak	257.00	143.19	
4950	36.08	V	53.97	-17.89	Avg	257.00	143.19	
7425	66.36	V	73.97	-7.61	Peak	180.75	111.49	
7425	46.36	V	53.97	-7.61	Avg	180.75	111.49	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**High Channel**  
**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	101.42	H	113.97	-12.55	Peak	153.25	110.77	
2475	81.42	H	93.97	-12.55	Avg	153.25	110.77	
4950	68.86	H	73.97	-5.11	Peak	179.50	127.25	
4950	48.86	H	53.97	-5.11	Avg	179.50	127.25	
7425	67.48	H	73.97	-6.49	Peak	131.25	143.19	
7425	47.48	H	53.97	-6.49	Avg	131.25	143.19	
9900								No Emission Detected
12375								No Emission Detected
14850								No Emission Detected
17325								No Emission Detected
19800								No Emission Detected
22275								No Emission Detected
24750								No Emission Detected

**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

Antenna 1  
 High Channel  
 Y-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	97.76	V	113.97	-16.21	Peak	59.25	126.95	
2475	77.76	V	93.97	-16.21	Avg	59.25	126.95	
4950	67.11	V	73.97	-6.86	Peak	127.50	111.13	
4950	47.11	V	53.97	-6.86	Avg	127.50	111.13	
7425	65.38	V	73.97	-8.59	Peak	116.50	142.59	
7425	45.38	V	53.97	-8.59	Avg	116.50	142.59	
9900								No Emission Detected
12375								No Emission Detected
14850								No Emission Detected
17325								No Emission Detected
19800								No Emission Detected
22275								No Emission Detected
24750								No Emission Detected



**FCC 15.249**

Universal Electronics, Inc.  
 Comcast XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**High Channel**  
**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	87.32	H	113.97	-26.65	Peak	329.75	126.77	
2475	67.32	H	93.97	-26.65	Avg	329.75	126.77	
4950	68.60	H	73.97	-5.37	Peak	347.75	142.41	
4950	48.60	H	53.97	-5.37	Avg	347.75	142.41	
7425	61.62	H	73.97	-12.35	Peak	24.50	111.13	
7425	41.62	H	53.97	-12.35	Avg	24.50	111.13	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Antenna 1**  
**High Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	94.78	V	113.97	-19.19	Peak	359.75	175.43	
2475	74.78	V	93.97	-19.19	Avg	359.75	175.43	
4950	68.97	V	73.97	-5.00	Peak	4.25	111.19	
4950	48.97	V	53.97	-5.00	Avg	4.25	111.19	
7425	65.07	V	73.97	-8.90	Peak	133.50	111.25	
7425	45.07	V	53.97	-8.90	Avg	133.50	111.25	
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 XR15 Remote 2015  
 Model: URC-4352BC0-X-R

Date: 09/08/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

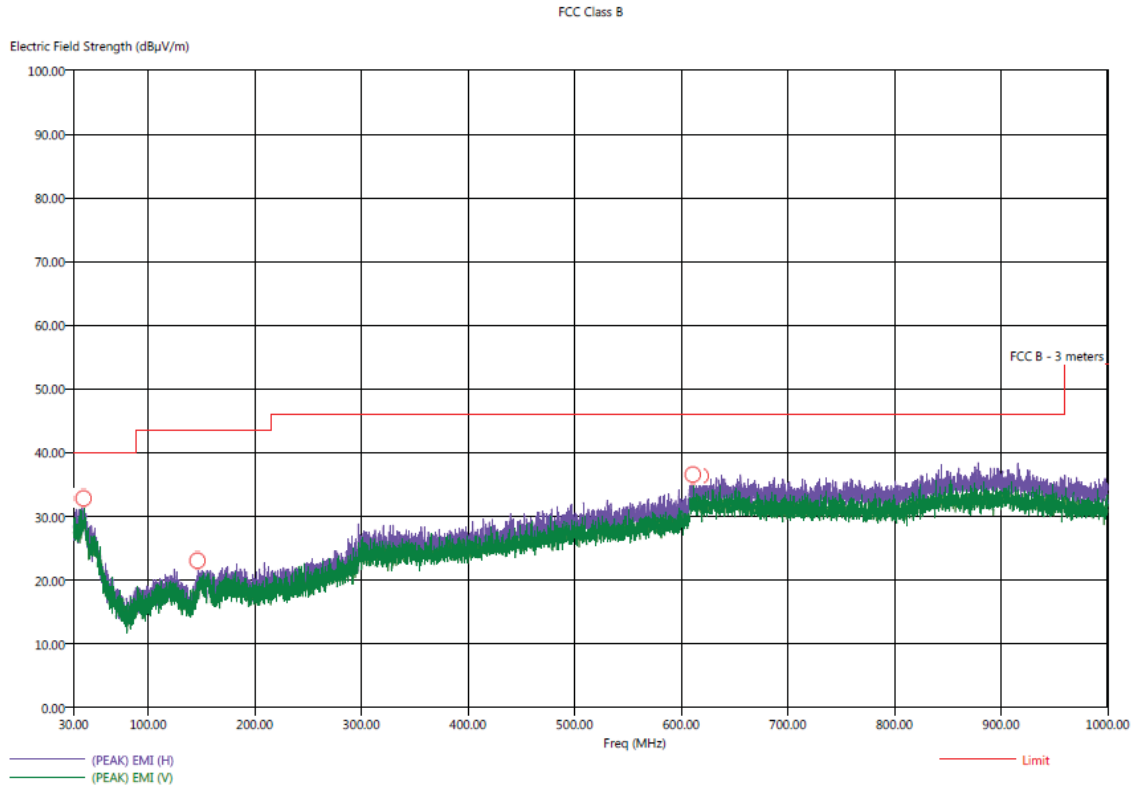
**Antenna 1**  
**High Channel**  
**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	98.86	H	113.97	-15.11	Peak	50.25	126.95	
2475	78.86	H	93.97	-15.11	Avg	50.25	126.95	
4950	69.02	H	73.97	-4.95	Peak	245.25	144.62	
4950	49.02	H	53.97	-4.95	Avg	245.25	144.62	
7425	66.89	H	73.97	-7.08	Peak	340.75	112.14	
7425	46.89	H	53.97	-7.08	Avg	340.75	112.14	
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



Title: Pre-Scan - FCC Class B  
 File: Agilent - Ant 0 - Pre-Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis.set  
 Operator: Kyle Fujimoto  
 EUT Type: Comcast XR15 Remote 2015  
 EUT Condition: The EUT is continuously transmitting at the low channel on Antenna 0 - X-axis  
 Comments: Company: Universal Electronics, Inc.  
 Model: URC-4352BC0-R  
 The Y-axis was the worst case

9/9/2016 4:31:44 PM  
 Sequence: Preliminary Scan



Title: Radiated Final - FCC Class B  
 File: Agilent - Ant 0 - Final Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis.set  
 Operator: Kyle Fujimoto  
 EUT Type: Comcast XR15 Remote 2015  
 EUT Condition: The EUT is continuously transmitting at the low channel on Antenna 0 - X-Axis  
 Comments: Company: Universal Electronics, Inc.  
 Model: URC-4352BC0-R  
 The X-Axis is the worst case

9/9/2016 4:45:10 PM  
 Sequence: Final Measurements

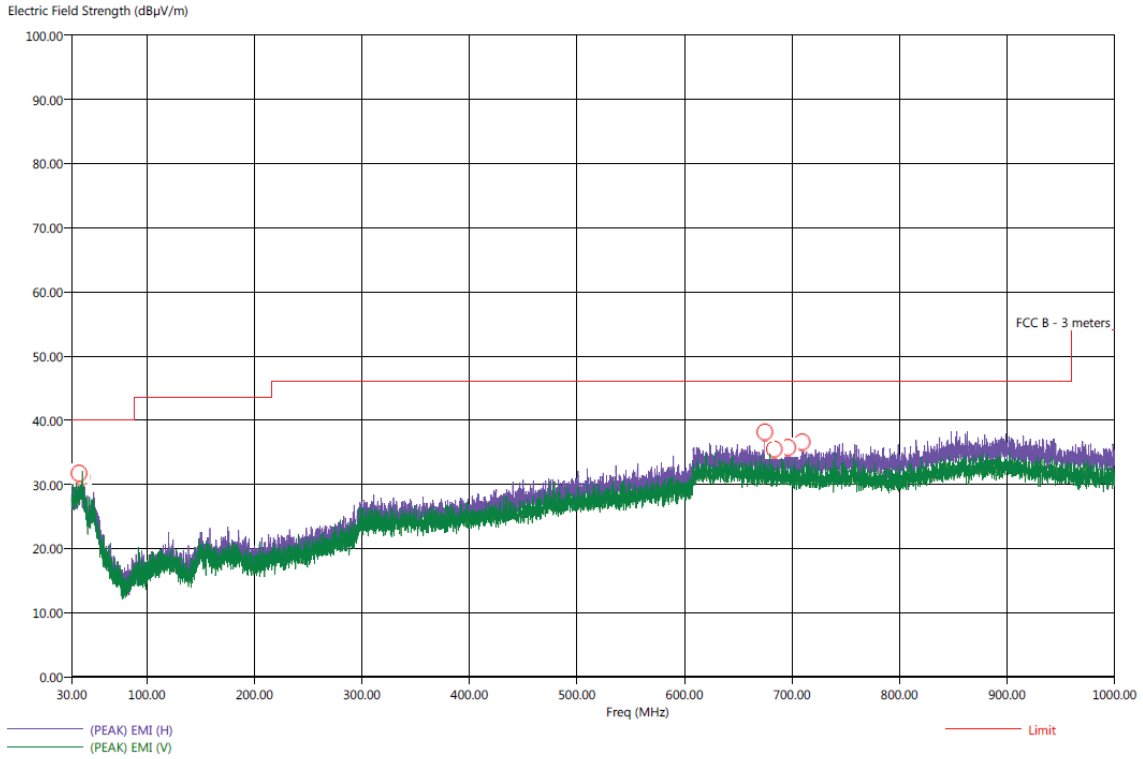
FCC Class B											
Freq (MHz)	Pol	(PEAK) EMI (dBμV/m)	(QP) EMI (dBμV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBμV/m)	Transducer (dB)	Cable (dB)	Ttbl Agl (deg)	Twr Ht (cm)	
39.70	H	33.52	27.55	-6.48	-12.45	40.00	25.33	0.39	170.25	143.49	
146.70	H	21.92	16.89	-21.58	-26.61	43.50	15.91	0.89	169.00	399.85	
611.60	H	36.72	31.25	-9.28	-14.75	46.00	23.94	2.00	263.25	207.73	
618.40	H	36.03	31.36	-9.97	-14.64	46.00	23.92	2.02	166.75	368.38	
618.40	V	37.02	32.36	-8.77	-13.64	46.00	23.92	2.02	177.50	351.76	
709.70	V	34.51	29.76	-11.49	-16.24	46.00	24.10	2.18	153.25	206.97	



Title: Pre-Scan - FCC Class B  
 File: Agilent - Ant 1 - Pre-Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis.set  
 Operator: Kyle Fujimoto  
 EUT Type: Comcast XR15 Remote 2015  
 EUT Condition: The EUT is continuously transmitting at the low channel on Antenna 1 - X-axis  
 Comments: Company: Universal Electronics, Inc.  
 Model: URC-4352BC0-R  
 The X-axis was the worst case

9/9/2016 3:26:01 PM  
 Sequence: Preliminary Scan

FCC Class B



Title: Radiated Final - FCC Class B  
 File: Aqilent - Ant 1 - Final Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis.set  
 Operator: Kyle Fujimoto  
 EUT Type: Comcast XR15 Remote 2015  
 EUT Condition: The EUT is continuously transmitting at the low channel on Antenna 1 - X-Axis  
 Comments: Company: Universal Electronics, Inc.  
 Model: URC-4352BC0-R  
 The X-Axis is the worst case

9/9/2016 3:55:48 PM  
 Sequence: Final Measurements

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 Aql (deg)	Twr Ht (cm)
37.00	H	32.71	27.04	-7.29	-12.96	40.00	24.79	0.38	72.75	384.26
39.40	H	32.86	27.60	-7.14	-12.40	40.00	25.31	0.39	354.50	352.26
674.90	H	36.87	31.17	-9.13	-14.83	46.00	24.15	2.12	160.25	159.31
683.60	H	36.14	30.91	-9.86	-15.09	46.00	24.10	2.12	118.25	319.97
696.30	H	36.24	30.89	-9.76	-15.11	46.00	24.02	2.13	181.50	399.79
709.70	H	35.51	30.76	-10.49	-15.24	46.00	24.10	2.18	128.50	239.79



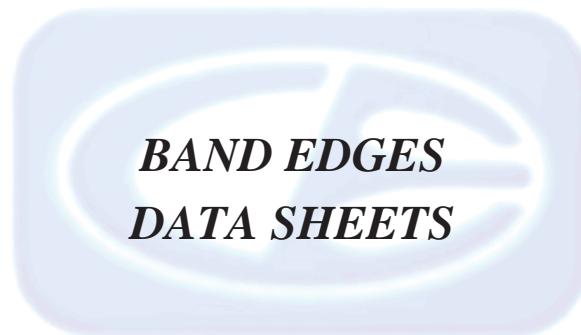
**Brea Division**  
 114 Olinda Drive  
 Brea, CA 92823  
 (714) 579-0500

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

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

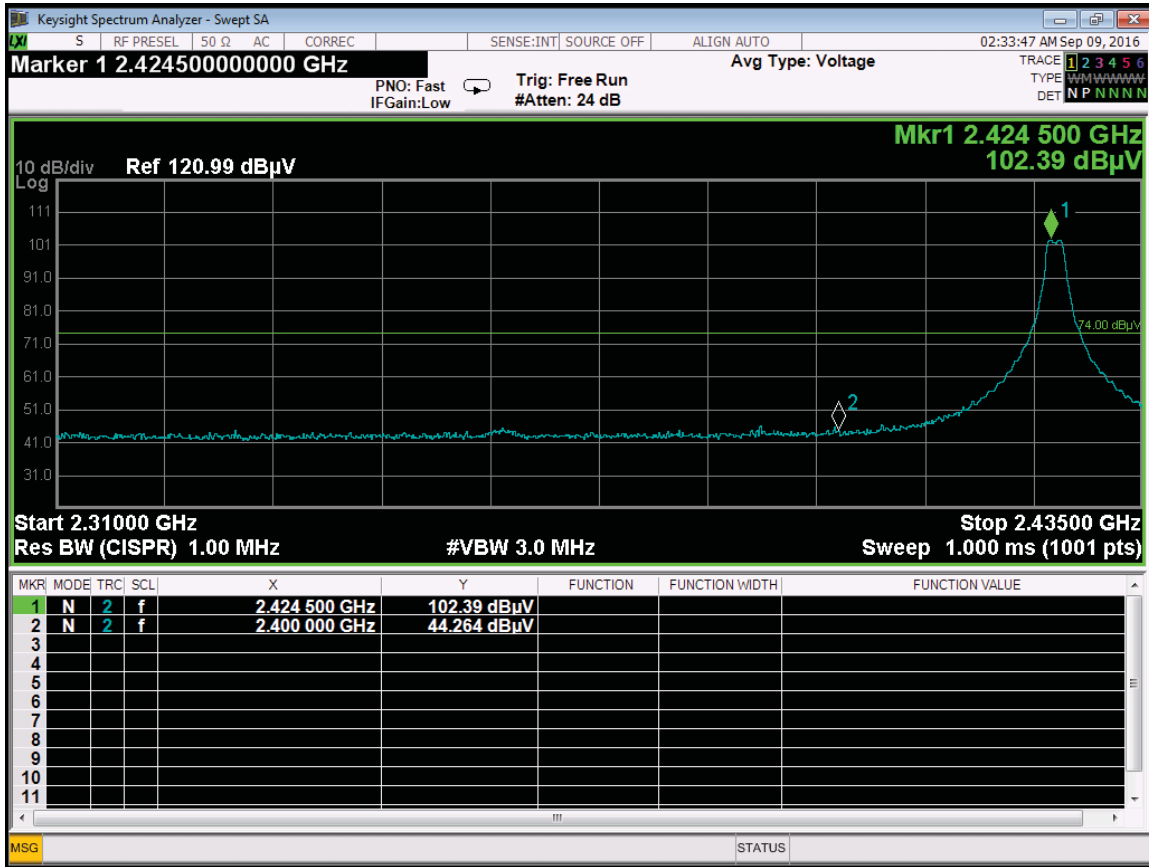
**Lake Forest Division**  
 20621 Pascal Way  
 Lake Forest, CA 92630  
 (949) 587-0400



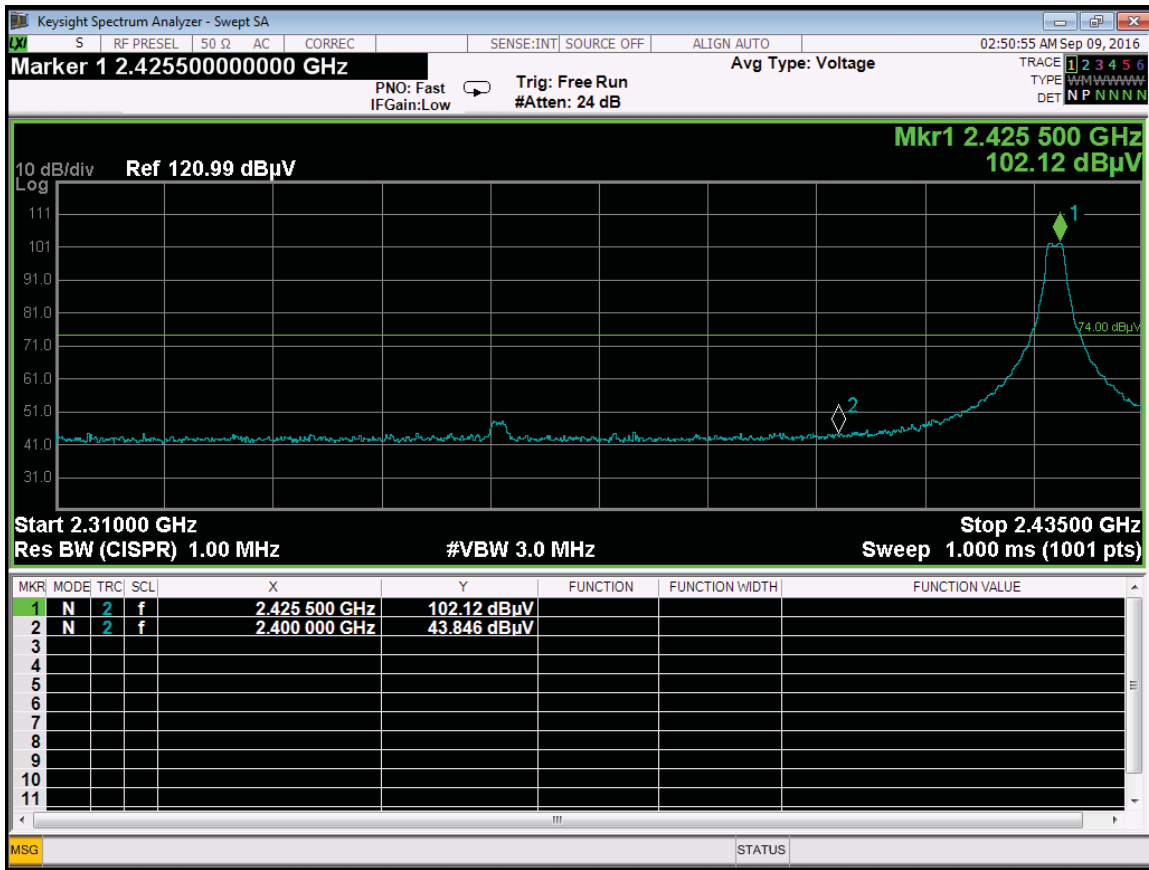




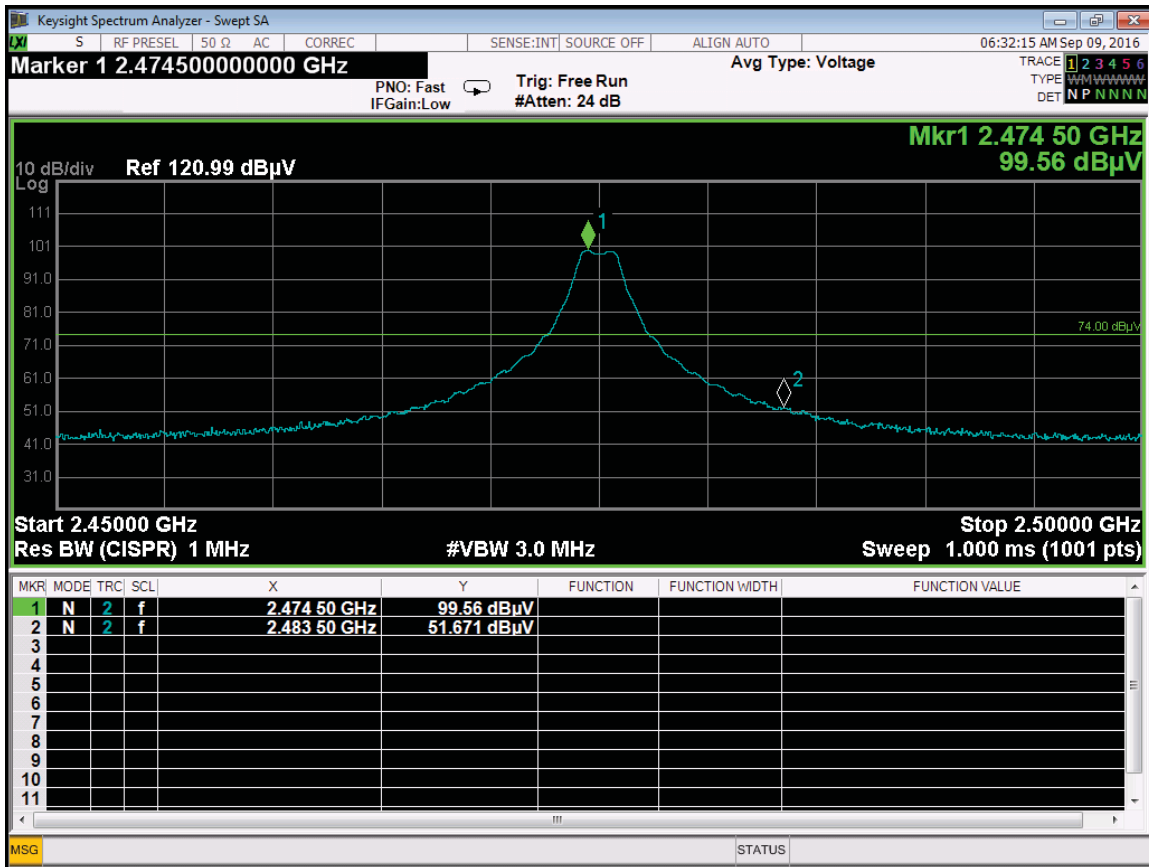




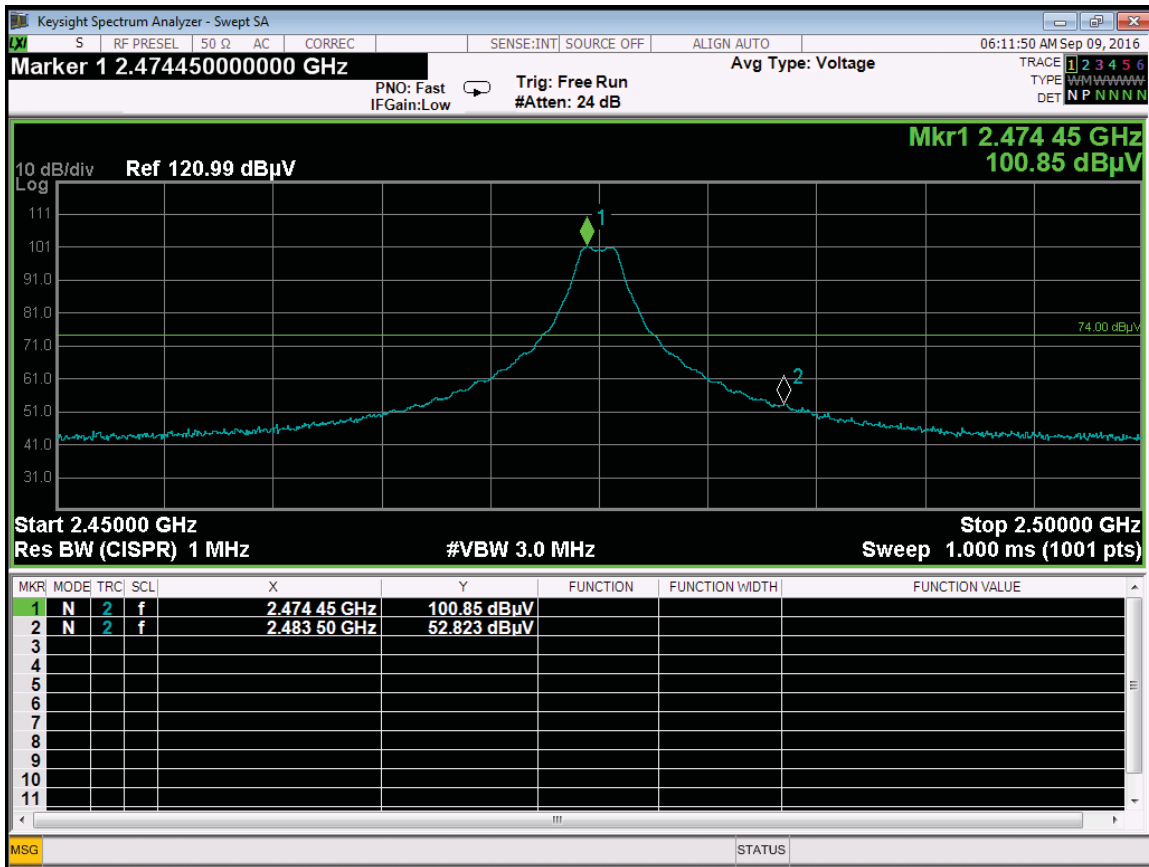
Band Edge – Vertical Polarization – Low Channel – Model: URC-4352BC0-X-R – Z-Axis Worst Case – Antenna 0



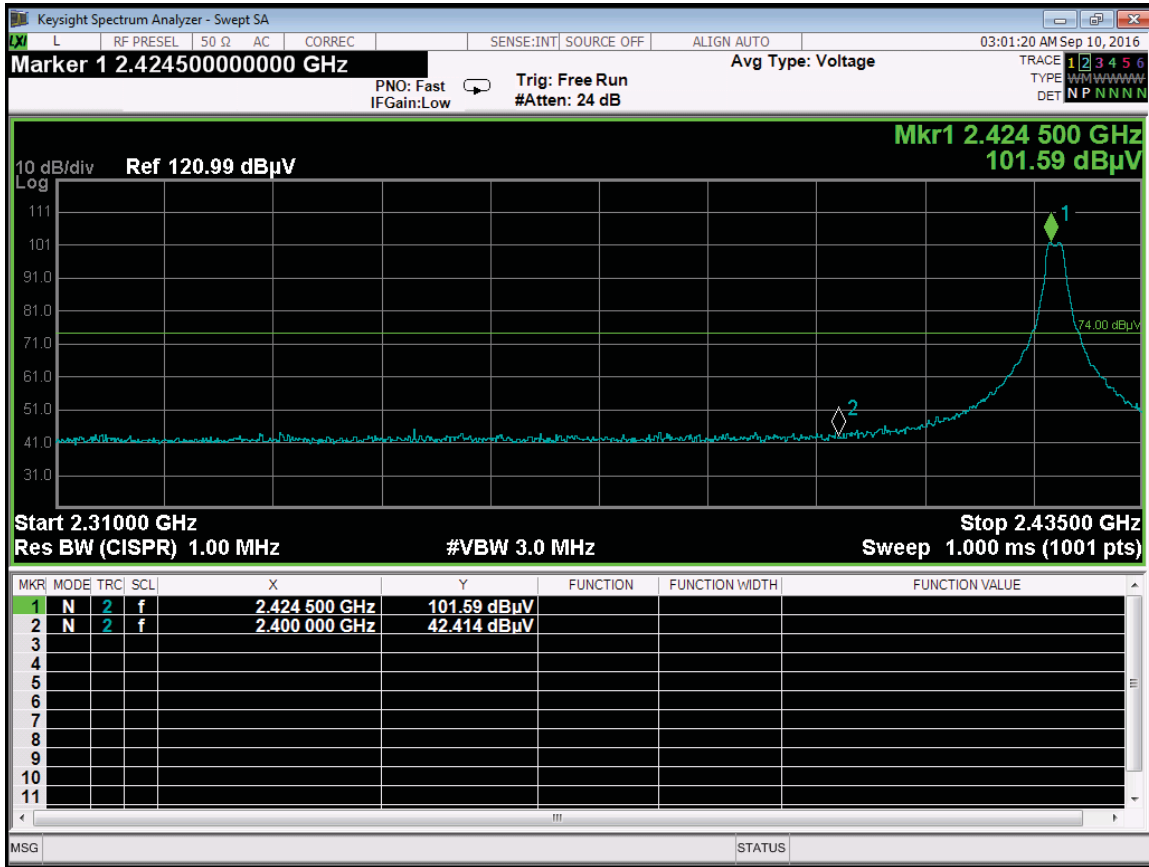
Band Edge – Horizontal Polarization – Low Channel – Model: URC-4352BC0-X-R – X-Axis Worst Case – Antenna 0



Band Edge – Vertical Polarization – Low Channel – Model: URC-4352BC0-X-R – Z-Axis Worst Case – Antenna 0

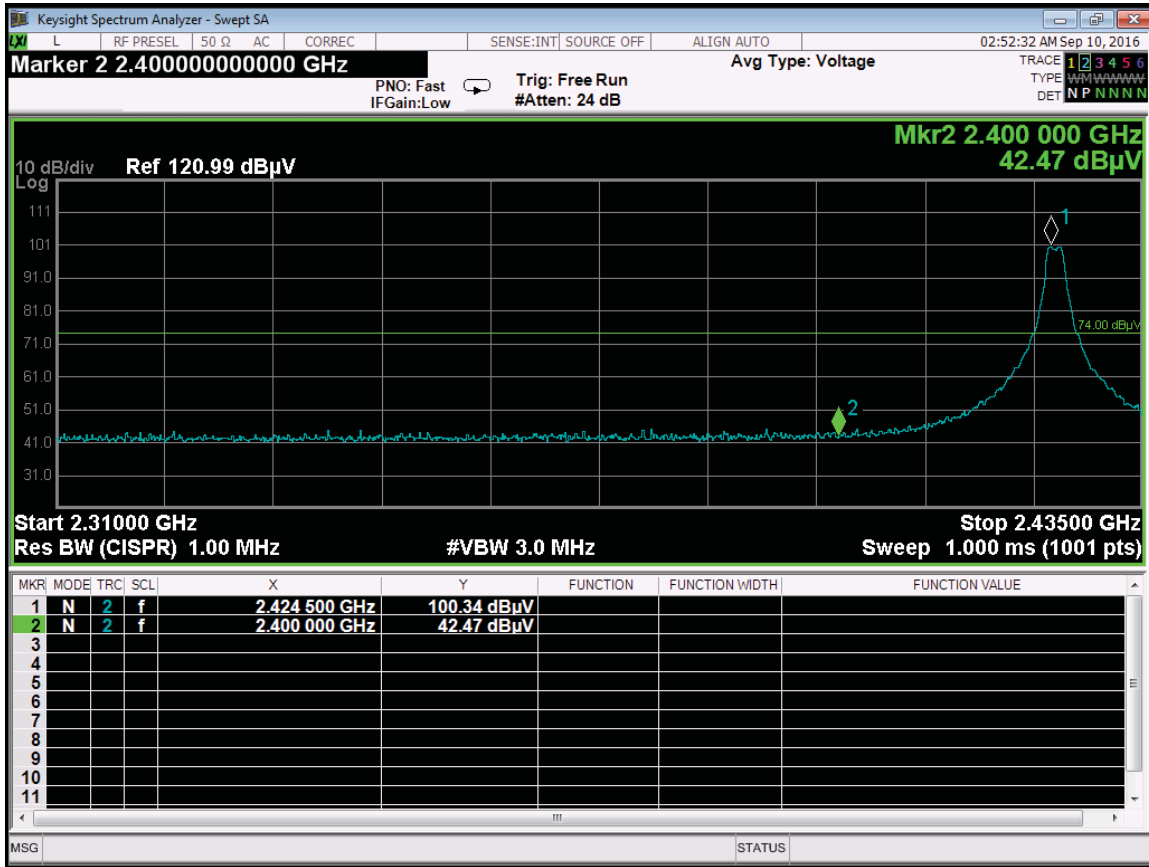


Band Edge – Horizontal Polarization – High Channel – Model: URC-4352BC0-X-R – X-Axis Worst Case – Antenna 0

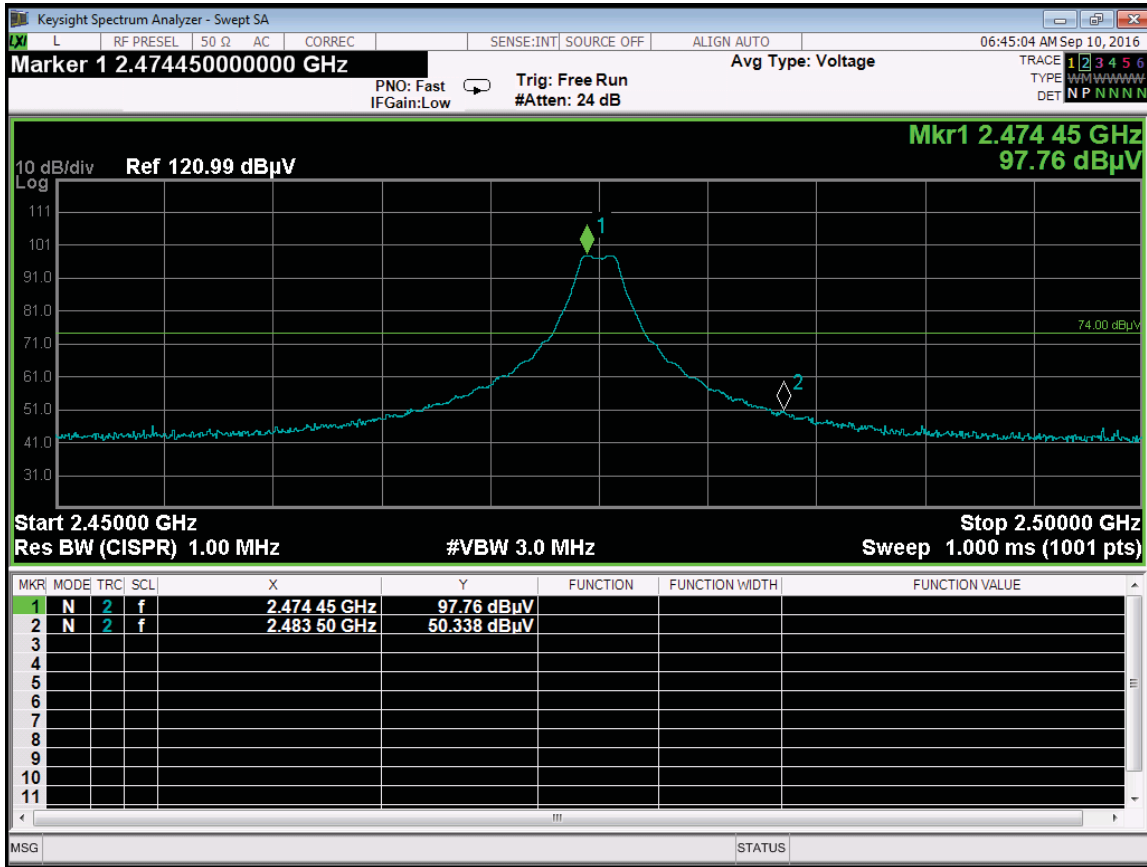


Band Edge – Vertical Polarization – Low Channel – Model: URC-4352BC0-X-R – Y-Axis Worst Case – Antenna 1

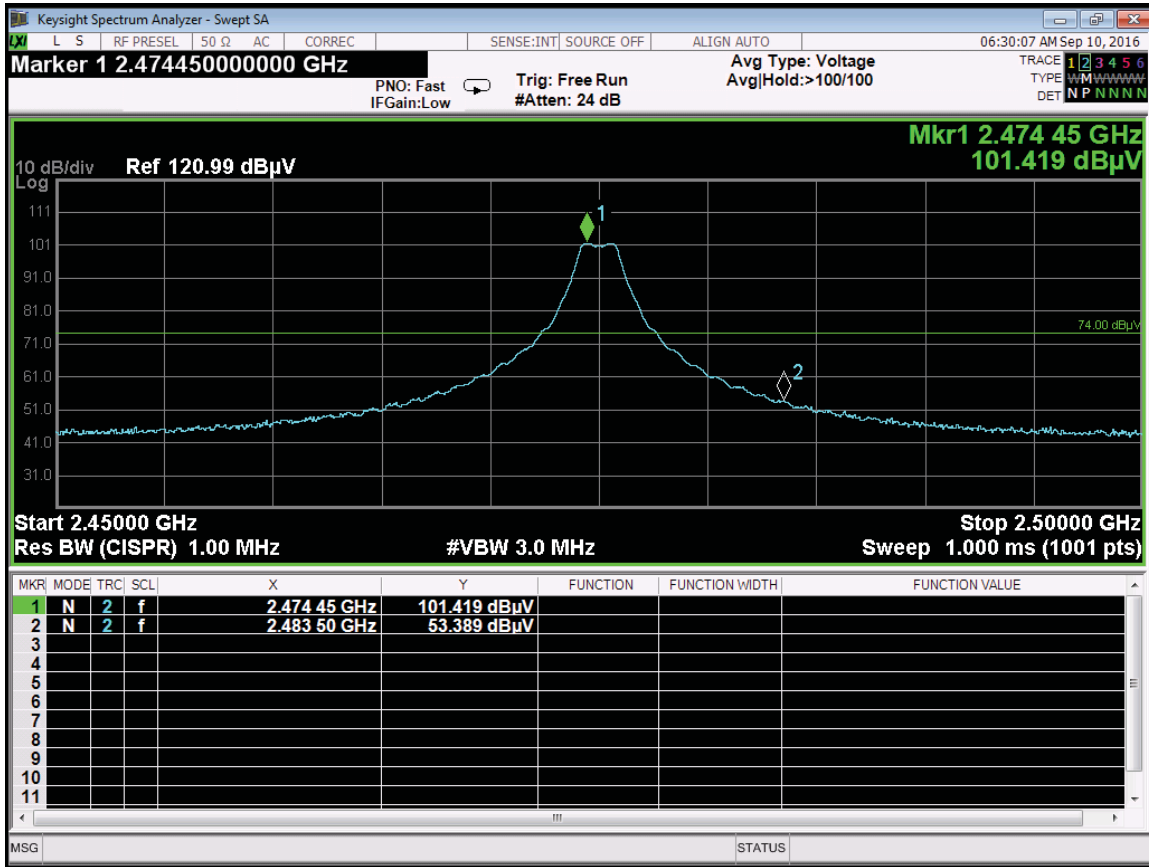




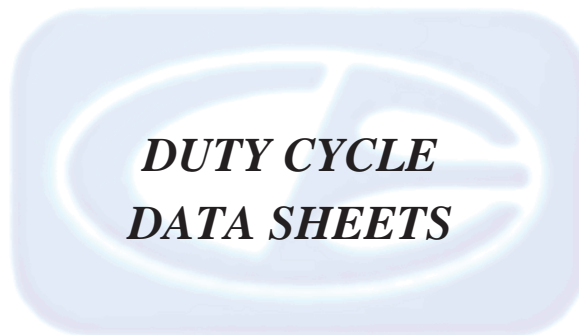
Band Edge – Horizontal Polarization – Low Channel – Model: URC-4352BC0-X-R –X-Axis Worst Case – Antenna 1

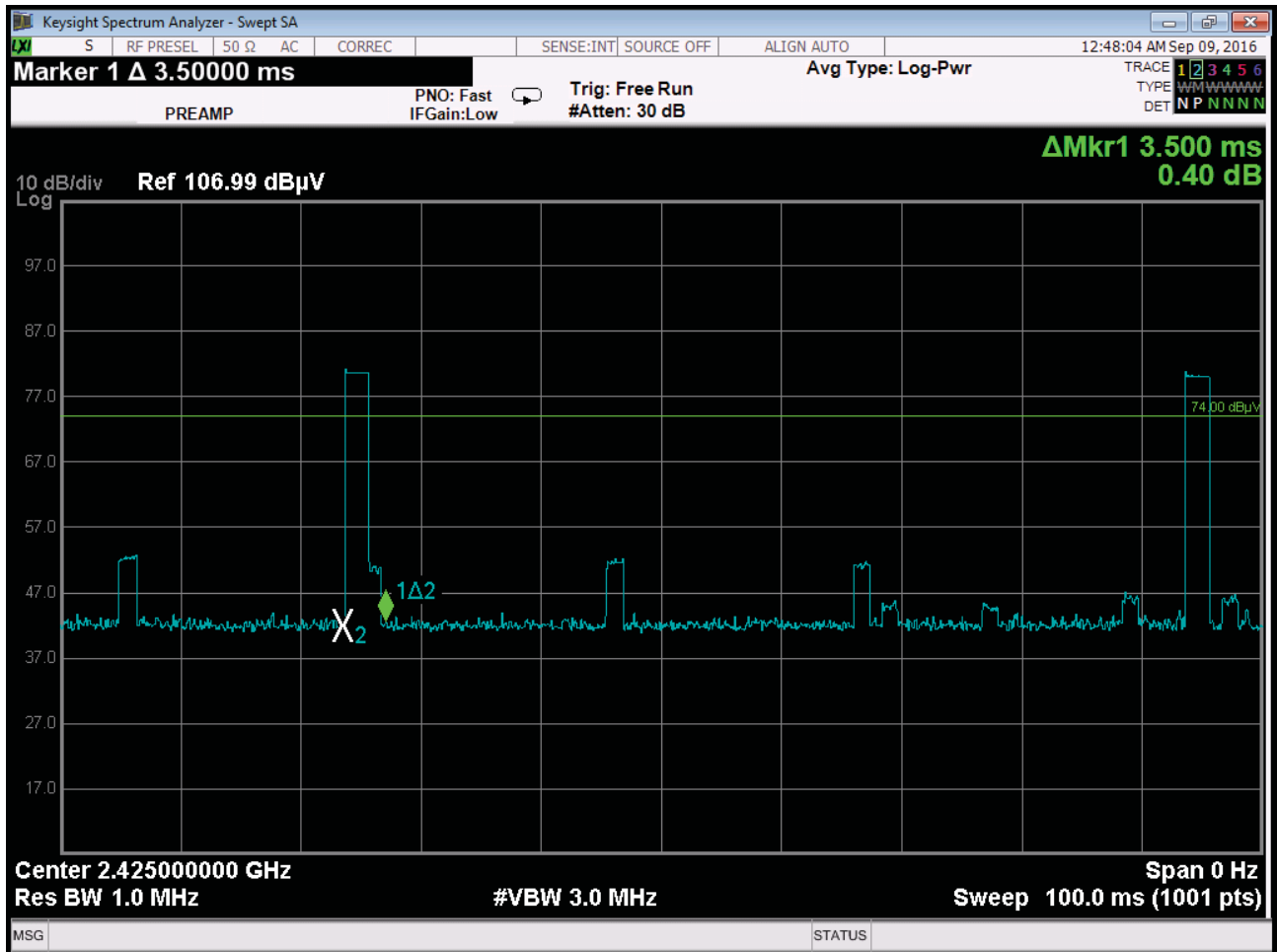


Band Edge – Vertical Polarization – High Channel – Model: URC-4352BC0-X-R – Y-Axis Worst Case – Antenna 1

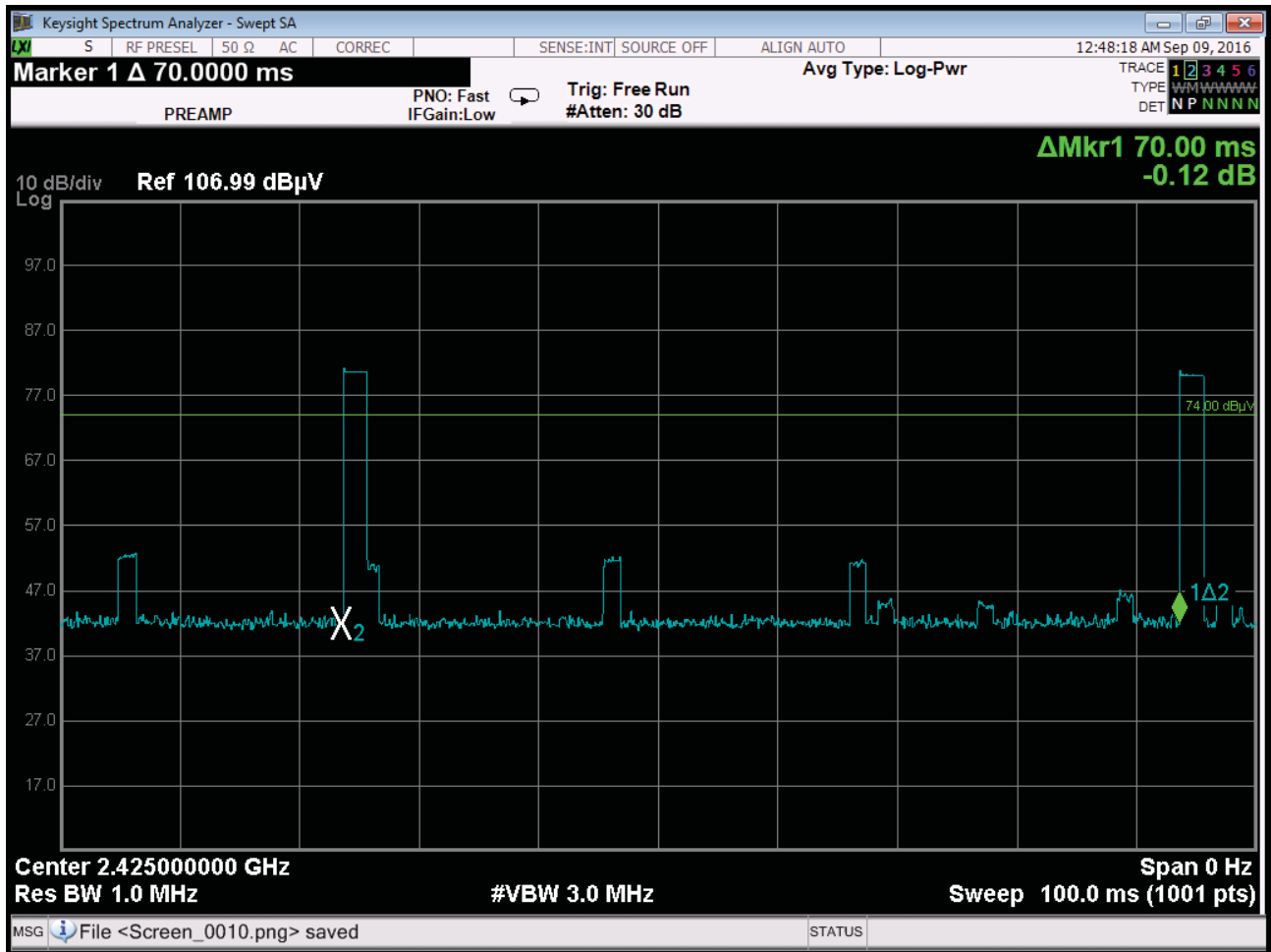


Band Edge – Horizontal Polarization – High Channel – Model: URC-4352BC0-X-R – X-Axis Worst Case – Antenna 1





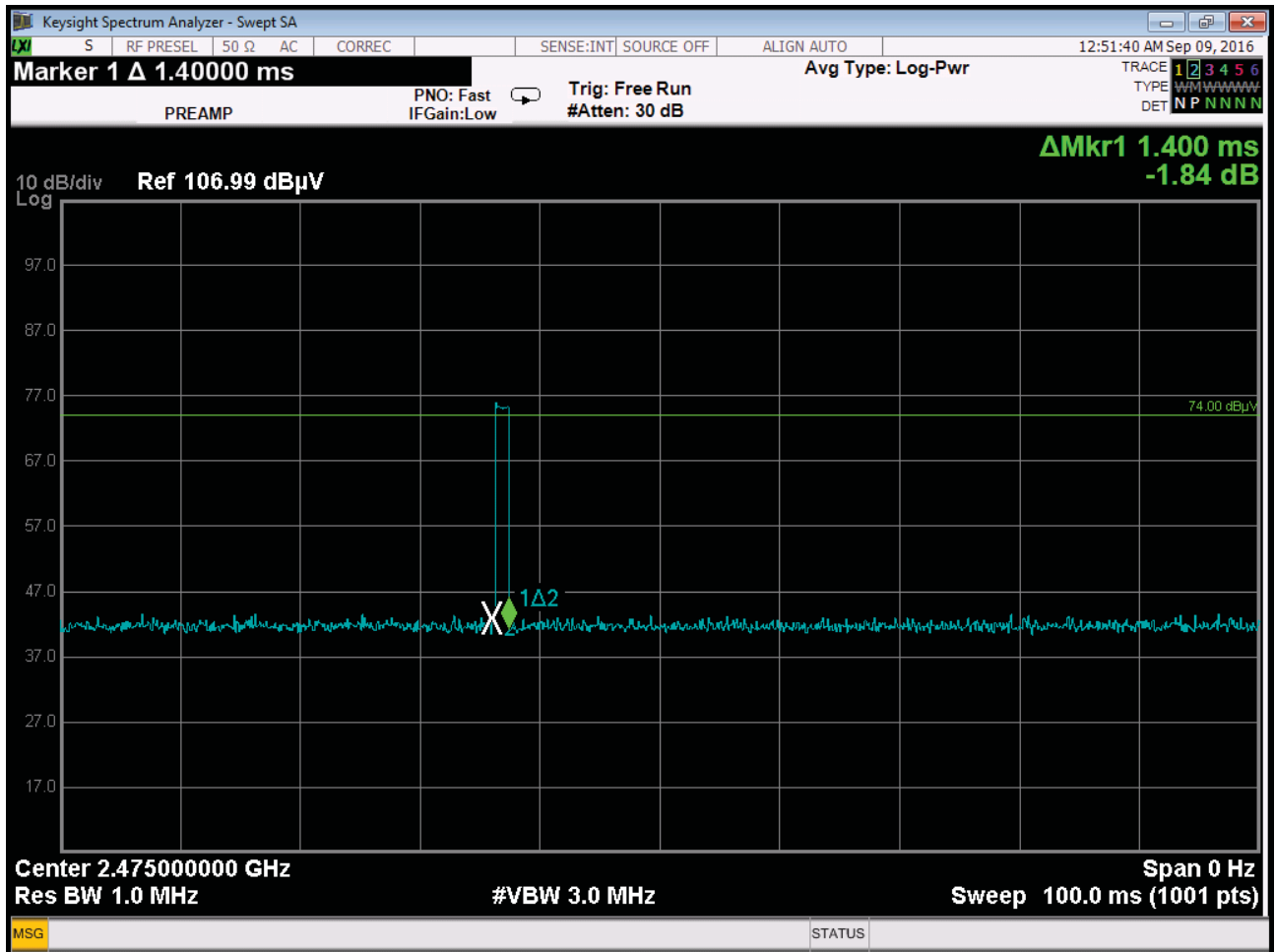
Time of One Pulse – 3.5 ms – Advertising Mode



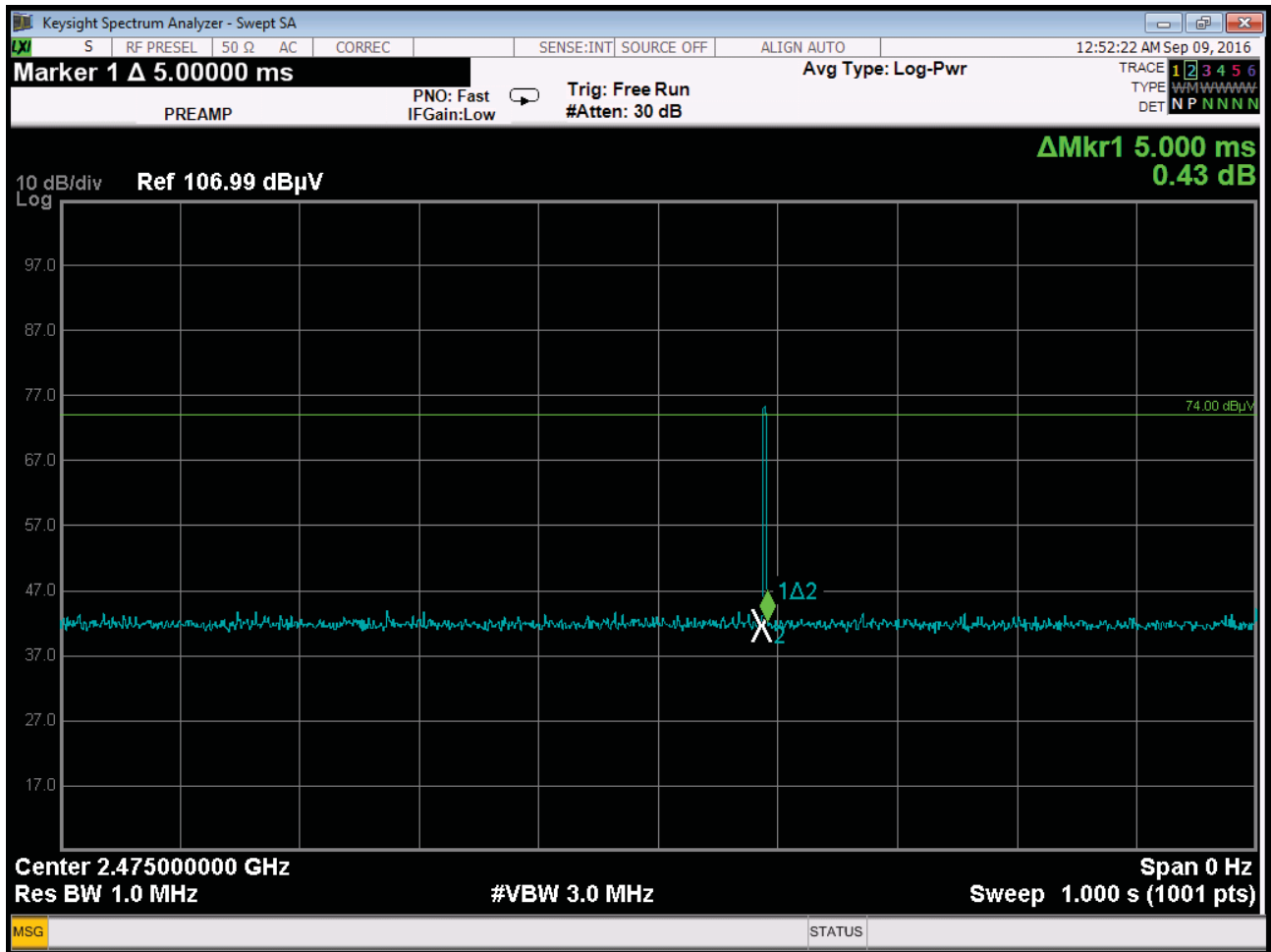
Time between Pulses worst case is 70 ms – Advertising Mode

Duty Cycle = 5.00% (3.5 ms / 70 ms)

The maximum of -20 dB Peak to Average ratio can be utilized



Time of One Pulse – 1.4 ms – Pairing Mode



Number of Pulses in worst case 100 ms is 1. – Pairing Mode

Duty Cycle = 1.40% (1.40 ms / 100 ms)

The maximum of -20 dB Peak to Average ratio can be utilized