

*FCC PART 15, SUBPART B and C
TEST REPORT**for***CHAMPION PLUS GP565 RF4CE REMOTE 2015****MODEL: URC-2125BC1-BX**

Prepared for

**UNIVERSAL ELECTRONICS, INC.
201 EAST SANDPOINTE AVE., 8TH FLOOR
SANTA ANA, CA 92707**

Prepared by: _____

KYLE FUJIMOTO

Approved by: _____

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

DATE: FEBRUARY 26, 2016

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	16	2	2	2	12	27	61

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1	Layout of the Semi-Anechoic Test Chamber

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: Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX
 S/N: N/A

Product Description: The EUT is an RF remote control.

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

Customer: Universal Electronics, Inc.
 201 East Sandpointe Ave., 8TH Floor
 Santa Ana California, 92707

Test Dates: January 20, 21, and 29; and February 12, 2016

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, ANSI C63.10

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

SUMMARY OF TEST RESULTS

<i>TEST</i>	DESCRIPTION	RESULTS
1	Spurious Radiated RF Emissions, 10 kHz – 25,000 MHz (Transmitter and Digital portion)	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, section 15.205, 15.209 and 15.249
2	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.

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Champion Plus GP565 RF4CE Remote 2015, Model: URC-2125BC1-BX. 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, 15.209, and 15.249.



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 92823.

2.2 Traceability Statement

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

2.3 Cognizant Personnel

Universal Electronics, Inc.

Jesse Mendez Senior Electrical Core Engineer

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer

James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on February 11, 2016.

2.5 Disposition of the Test Sample

The test sample has not been returned to Universal Electronics, Inc. as of the date of this test report.

2.6 Abbreviations and Acronyms

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

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
N/A	Not Applicable
DNF	Do Not Fit
URC	Universal Remote Control

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
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
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

Champion Plus GP565 RF4CE Remote 2015, Model:URC-2125BC1-BX (EUT) is a remote control that is powered by two AA 1.5 VDC batteries.

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 on the selected antenna.

The EUT was tested with new batteries.

The final radiated data for the EUT as 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 cables.

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

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
CHAMPION PLUS GP565 RF4CE REMOTE 2015	UNIVERSAL ELECTRONICS, INC.	URC-2125BC1-BX	N/A	MG3-2125BC1

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
GENERAL TEST EQUIPMENT USED IN LAB D					
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	MY51100115	April 3, 2015	1 Year
RF RADIATED EMISSIONS TEST EQUIPMENT					
CombiLog Antenna	Com-Power	AC-220	61060	September 3, 2015	1 Year
Preamplifier	Com-Power	PA-118	551024	March 6, 2015	1 Year
Preamplifier	Com-Power	PA-840	711013	May 13, 2014	2 Year
Loop Antenna	Com-Power	AL-130	17089	February 6, 2015	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 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 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.

For frequencies above 1 GHz, the readings were average by a “duty cycle correction factor”, derived from $20 \log(\text{dwell time} / 100 \text{ ms})$. This duty cycle correction factor was then subtracted from the peak reading.

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	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

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. 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.

Radiated Emissions Test (Continued)

The EUT was tested at a 3-meter test distance from 10 kHz to 25 GHz.

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 for radiated emissions. Please see Appendix E for the data sheets.



7.1.3 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS
Champion Plus GP565 RF4CE Remote 2015, Model: URC-2125BC1-BX

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
7425 (H) (X-Axis)	45.57 (Avg)	54.00	-8.43
4900 (V) (Y-Axis)	45.47 (Avg)	54.00	-8.53
4900 (H) (X-Axis)	45.26 (Avg)	54.00	-8.75
4950 (V) (Y-Axis)	44.77 (Avg)	54.00	-9.23
7350 (H) (X-Axis)	44.58 (Avg)	54.00	-9.42
4950 (H) (X-Axis)	44.32 (Avg)	54.00	-9.68

Notes:

- (H) Horizontal
- (V) Vertical
- (Avg) Averaged Reading
- * The complete emissions data is given in Appendix E of this report.

8. CONCLUSIONS

Champion Plus GP565 RF4CE Remote 2015, Model: URC-2125BC1-BX, 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
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

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

LABORATORY ACCREDITATIONS AND RECOGNITIONS



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 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](#)

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



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



FCC Listing, from FCC OET site

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



Compatible Electronics IC listing can be found at:

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

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

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

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

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



APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 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***

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

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

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

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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Champion Plus GP565 RF4CE Remote 2015
Model: URC-2125BC1-BX
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.

Per the manufacturer, the additional models have the following differences:

1. Model: URC-2125BC1-AX

The URC-2125BC1-AX has Amber backlighting instead.

2. Model: URC-2125BC1-WX

The URC-2125BC1-WX has White backlighting instead.

3. Model: URC-2125BC1-XX

The URC-2125BC1-XX has Standard Key Layout and Standard Rubber Keypad (not backlit) instead.

4 Model: URC-2125BC1-BG

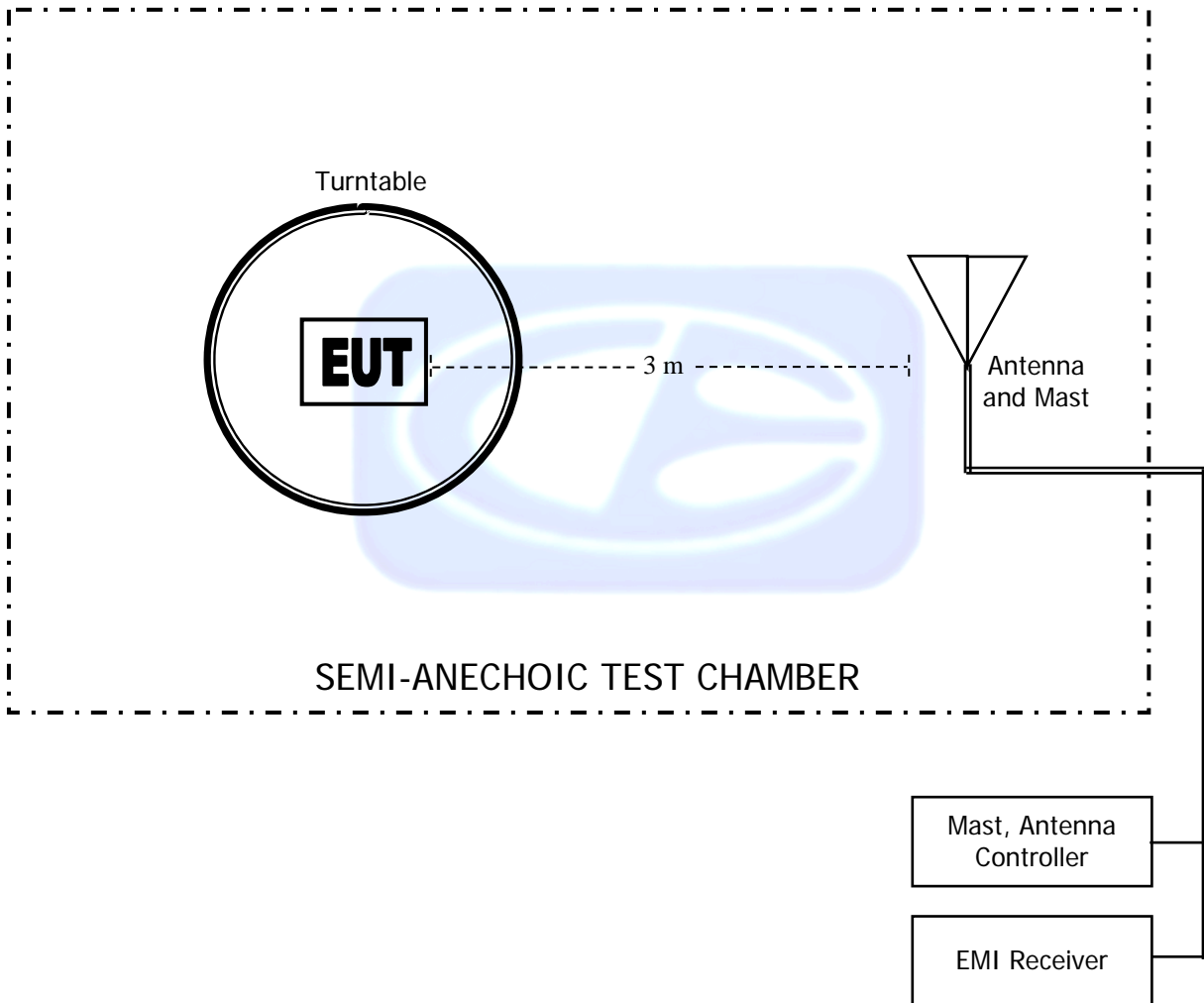
The URC-2125BC1-BG has White Backlighting and Chrome Key Caps (on Nav Keys and Play/Pause) instead.



APPENDIX D

DIAGRAMS AND CHARTS

FIGURE 1: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER



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

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
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, 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: 551024

CALIBRATION DATE: MARCH 6, 2015

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	39.76	6.0	38.77
1.1	40.46	6.5	38.46
1.2	40.05	7.0	38.27
1.3	40.58	7.5	38.77
1.4	39.50	8.0	39.25
1.5	39.92	8.5	38.63
1.6	40.40	9.0	39.58
1.7	40.10	9.5	42.12
1.8	40.49	10.0	38.53
1.9	38.86	11.0	40.21
2.0	41.53	12.0	41.15
2.5	41.05	13.0	40.51
3.0	40.29	14.0	40.32
3.5	40.82	15.0	39.47
4.0	40.88	16.0	39.88
4.5	41.37	17.0	39.79
5.0	40.73	18.0	40.61
5.5	39.05		

COM-POWER AH-826**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	31.0	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.
CHAMPION PLUS GP565 RF4CE REMOTE 2015
MODEL: URC-2125BC1-BX
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

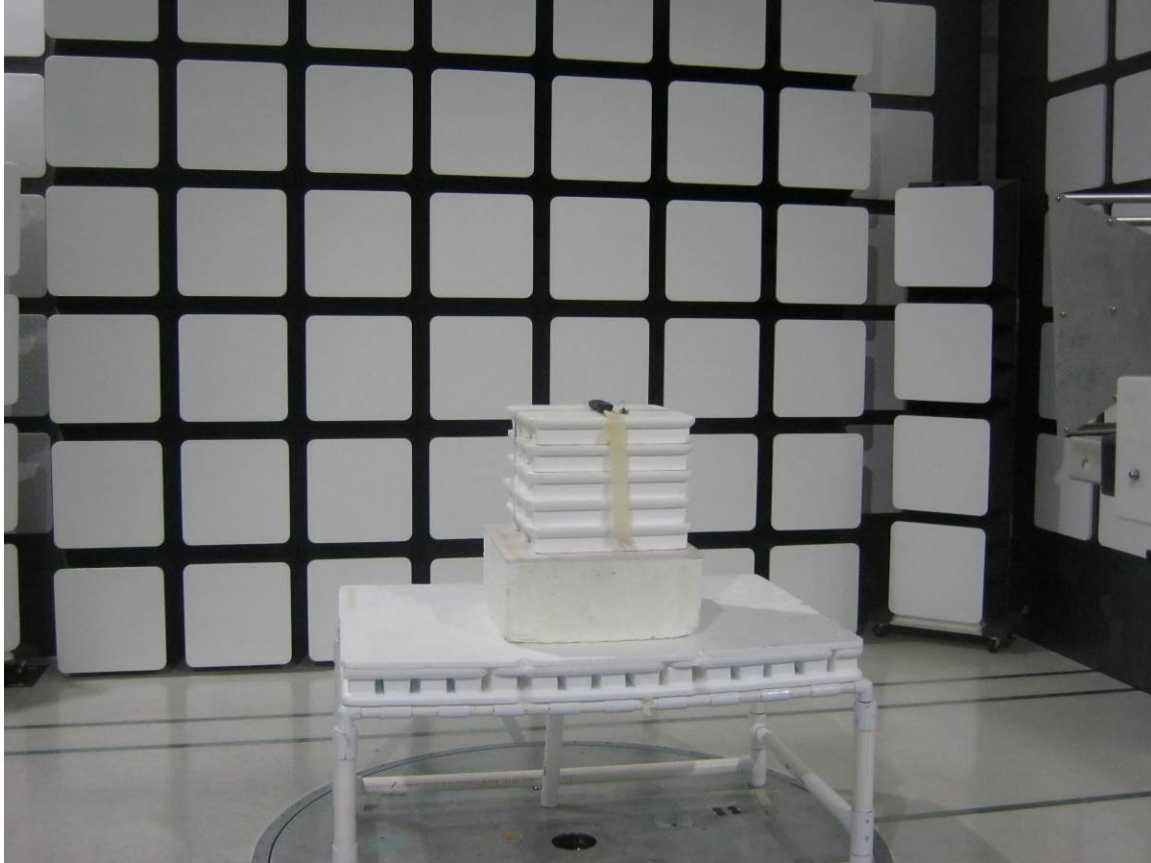
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

UNIVERSAL ELECTRONICS, INC.
CHAMPION PLUS GP565 RF4CE REMOTE 2015
MODEL: URC-2125BC1-BX
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

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



FRONT VIEW

UNIVERSAL ELECTRONICS, INC.
CHAMPION PLUS GP565 RF4CE REMOTE 2015
MODEL: URC-2125BC1-BX
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

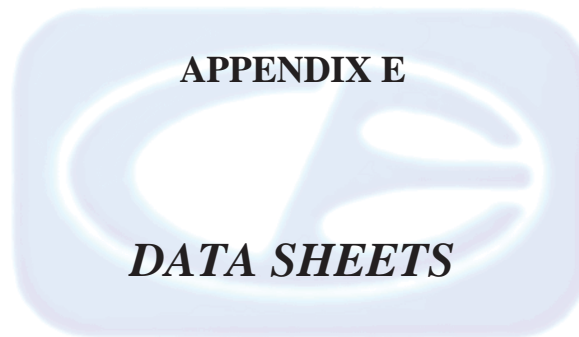
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

UNIVERSAL ELECTRONICS, INC.
CHAMPION PLUS GP565 RF4CE REMOTE 2015
MODEL: URC-2125BC1-BX
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.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	97.00	V	114.00	-17.00	Peak	9.25	255.37	
2425	77.00	V	94.00	-17.00	Avg	9.25	255.37	
4850	58.03	V	74.00	-15.98	Peak	5.00	254.11	
4850	38.03	V	54.00	-15.98	Avg	5.00	254.11	
7275	57.67	V	74.00	-16.34	Peak	87.25	198.83	
7275	37.67	V	54.00	-16.34	Avg	87.25	198.83	
9700								No Emissions
9700								Detected
12125								No Emissions
12125								Detected
14550								No Emissions
14550								Detected
16975								No Emissions
16975								Detected
19400								No Emissions
19400								Detected
21825								No Emissions
21825								Detected
24250								No Emissions
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	100.25	H	114.00	-13.75	Peak	315.75	170.05	
2425	80.25	H	94.00	-13.75	Avg	315.75	170.05	
4850	59.06	H	74.00	-14.94	Peak	103.75	168.74	
4850	39.06	H	54.00	-14.94	Avg	103.75	168.74	
7275	59.07	H	74.00	-14.94	Peak	219.50	184.98	
7275	39.07	H	54.00	-14.94	Avg	219.50	184.98	
9700								No Emissions
9700								Detected
12125								No Emissions
12125								Detected
14550								No Emissions
14550								Detected
16975								No Emissions
16975								Detected
19400								No Emissions
19400								Detected
21825								No Emissions
21825								Detected
24250								No Emissions
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
 Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	98.99	V	114.00	-15.02	Peak	355.00	184.80	
2425	78.99	V	94.00	-15.02	Avg	355.00	184.80	
4850	57.87	V	74.00	-16.13	Peak	357.00	147.13	
4850	37.87	V	54.00	-16.13	Avg	357.00	147.13	
7275	60.38	V	74.00	-13.62	Peak	229.50	177.34	
7275	40.38	V	54.00	-13.62	Avg	229.50	177.34	
9700								No Emissions
9700								Detected
12125								No Emissions
12125								Detected
14550								No Emissions
14550								Detected
16975								No Emissions
16975								Detected
19400								No Emissions
19400								Detected
21825								No Emissions
21825								Detected
24250								No Emissions
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	94.28	H	114.00	-19.72	Peak	200.00	155.25	
2425	74.28	H	94.00	-19.72	Avg	200.00	155.25	
4850	55.64	H	74.00	-18.36	Peak	328.75	150.53	
4850	35.64	H	54.00	-18.36	Avg	328.75	150.53	
7275	57.69	H	74.00	-16.31	Peak	11.25	193.16	
7275	37.69	H	54.00	-16.31	Avg	11.25	193.16	
9700								No Emissions
9700								Detected
12125								No Emissions
12125								Detected
14550								No Emissions
14550								Detected
16975								No Emissions
16975								Detected
19400								No Emissions
19400								Detected
21825								No Emissions
21825								Detected
24250								No Emissions
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	97.17	V	114.00	-16.83	Peak	5.50	126.47	
2425	77.17	V	94.00	-16.83	Avg	5.50	126.47	
4850	56.36	V	74.00	-17.64	Peak	117.00	173.34	
4850	36.36	V	54.00	-17.64	Avg	117.00	173.34	
7275	59.40	V	74.00	-14.60	Peak	171.00	152.92	
7275	39.40	V	54.00	-14.60	Avg	171.00	152.92	
9700								No Emissions Detected
9700								Detected
12125								No Emissions Detected
12125								Detected
14550								No Emissions Detected
14550								Detected
16975								No Emissions Detected
16975								Detected
19400								No Emissions Detected
19400								Detected
21825								No Emissions Detected
21825								Detected
24250								No Emissions Detected
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Low Channel
 Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	100.16	H	114.00	-13.84	Peak	269.75	204.68	
2425	80.16	H	94.00	-13.84	Avg	269.75	204.68	
4850	57.78	H	74.00	-16.22	Peak	261.50	198.23	
4850	37.78	H	54.00	-16.22	Avg	261.50	198.23	
7275	59.26	H	74.00	-14.74	Peak	287.50	225.76	
7275	39.26	H	54.00	-14.74	Avg	287.50	225.76	
9700								No Emissions
9700								Detected
12125								No Emissions
12125								Detected
14550								No Emissions
14550								Detected
16975								No Emissions
16975								Detected
19400								No Emissions
19400								Detected
21825								No Emissions
21825								Detected
24250								No Emissions
24250								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	96.21	V	114.00	-17.79	Peak	187.25	311.13	
2450	76.21	V	94.00	-17.79	Avg	187.25	311.13	
4900	56.41	V	74.00	-17.59	Peak	158.75	279.73	
4900	36.41	V	54.00	-17.59	Avg	158.75	279.73	
7350	56.41	V	74.00	-17.59	Peak	355.00	205.16	
7350	36.41	V	54.00	-17.59	Avg	355.00	205.16	
9800								No Emissions
9800								Detected
12250								No Emissions
12250								Detected
14700								No Emissions
14700								Detected
17150								No Emissions
17150								Detected
19600								No Emissions
19600								Detected
22050								No Emissions
22050								Detected
24500								No Emissions
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	100.97	H	114.00	-13.03	Peak	139.00	168.44	
2450	80.97	H	94.00	-13.03	Avg	139.00	168.44	
4900	65.26	H	74.00	-8.75	Peak	164.00	164.20	
4900	45.26	H	54.00	-8.75	Avg	164.00	164.20	
7350	64.58	H	74.00	-9.42	Peak	143.25	168.20	
7350	44.58	H	54.00	-9.42	Avg	143.25	168.20	
9800								No Emissions
9800								Detected
12250								No Emissions
12250								Detected
14700								No Emissions
14700								Detected
17150								No Emissions
17150								Detected
19600								No Emissions
19600								Detected
22050								No Emissions
22050								Detected
24500								No Emissions
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	100.11	V	114.00	-13.89	Peak	334.25	145.28	
2450	80.11	V	94.00	-13.89	Avg	334.25	145.28	
4900	65.47	V	74.00	-8.53	Peak	355.00	187.01	
4900	45.47	V	54.00	-8.53	Avg	355.00	187.01	
7350	63.22	V	74.00	-10.78	Peak	297.00	150.17	
7350	43.22	V	54.00	-10.78	Avg	297.00	150.17	
9800								No Emissions Detected
9800								Detected
12250								No Emissions Detected
12250								Detected
14700								No Emissions Detected
14700								Detected
17150								No Emissions Detected
17150								Detected
19600								No Emissions Detected
19600								Detected
22050								No Emissions Detected
22050								Detected
24500								No Emissions Detected
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	93.82	H	114.00	-20.18	Peak	355.00	234.83	
2450	73.82	H	94.00	-20.18	Avg	355.00	234.83	
4900	57.44	H	74.00	-16.56	Peak	346.50	213.94	
4900	37.44	H	54.00	-16.56	Avg	346.50	213.94	
7350	58.29	H	74.00	-15.71	Peak	153.50	244.80	
7350	38.29	H	54.00	-15.71	Avg	153.50	244.80	
9800								No Emissions
9800								Detected
12250								No Emissions
12250								Detected
14700								No Emissions
14700								Detected
17150								No Emissions
17150								Detected
19600								No Emissions
19600								Detected
22050								No Emissions
22050								Detected
24500								No Emissions
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	97.69	V	114.00	-16.31	Peak	178.75	200.38	
2450	77.69	V	94.00	-16.31	Avg	178.75	200.38	
4900	62.07	V	74.00	-11.93	Peak	176.50	146.29	
4900	42.07	V	54.00	-11.93	Avg	176.50	146.29	
7350	58.83	V	74.00	-15.17	Peak	147.25	120.86	
7350	38.83	V	54.00	-15.17	Avg	147.22	120.86	
9800								No Emissions
9800								Detected
12250								No Emissions
12250								Detected
14700								No Emissions
14700								Detected
17150								No Emissions
17150								Detected
19600								No Emissions
19600								Detected
22050								No Emissions
22050								Detected
24500								No Emissions
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Middle Channel
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	99.28	H	114.00	-14.72	Peak	74.75	222.29	
2450	79.28	H	94.00	-14.72	Avg	74.75	222.29	
4900	61.29	H	74.00	-12.71	Peak	258.75	223.85	
4900	41.29	H	54.00	-12.71	Avg	258.75	223.85	
7350	63.35	H	74.00	-10.65	Peak	92.25	201.25	
7350	43.35	H	54.00	-10.65	Avg	92.25	201.25	
9800								No Emissions
9800								Detected
12250								No Emissions
12250								Detected
14700								No Emissions
14700								Detected
17150								No Emissions
17150								Detected
19600								No Emissions
19600								Detected
22050								No Emissions
22050								Detected
24500								No Emissions
24500								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
X-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	89.62	V	114.00	-24.38	Peak	308.25	208.56	
2475	69.62	V	94.00	-24.38	Avg	308.25	208.56	
4950	55.78	V	74.00	-18.22	Peak	78.25	157.70	
4950	35.78	V	54.00	-18.22	Avg	78.25	157.70	
7425	57.78	V	74.00	-16.22	Peak	324.75	186.35	
7425	37.78	V	54.00	-16.22	Avg	324.75	186.35	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
X-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	101.12	H	114.00	-12.88	Peak	320.50	156.62	
2475	81.12	H	94.00	-12.88	Avg	320.50	156.62	
4950	64.32	H	74.00	-9.68	Peak	285.00	148.92	
4950	44.32	H	54.00	-9.68	Avg	285.00	148.92	
7425	65.57	H	74.00	-8.43	Peak	279.75	150.23	
7425	45.57	H	54.00	-8.43	Avg	279.75	150.23	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
Y-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	99.26	V	114.00	-14.75	Peak	182.50	145.64	
2475	79.26	V	94.00	-14.75	Avg	182.50	145.64	
4950	64.77	V	74.00	-9.23	Peak	231.25	141.52	
4950	44.77	V	54.00	-9.23	Avg	231.25	141.52	
7425	62.87	V	74.00	-11.13	Peak	212.75	142.41	
7425	42.87	V	54.00	-11.13	Avg	212.75	142.41	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
Y-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	92.24	H	114.00	-21.76	Peak	343.75	141.94	
2475	72.24	H	94.00	-21.76	Avg	343.75	141.94	
4950	56.77	H	74.00	-17.24	Peak	22.50	204.02	
4950	36.77	H	54.00	-17.24	Avg	22.50	204.02	
7425	58.95	H	74.00	-15.05	Peak	113.75	254.59	
7425	38.95	H	54.00	-15.05	Avg	113.75	254.59	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
Z-Axis - Vertical

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	92.63	V	114.00	-21.37	Peak	90.87	126.25	
2475	72.63	V	94.00	-21.37	Avg	90.87	126.25	
4950	57.28	V	74.00	-16.72	Peak	92.58	128.59	
4950	37.28	V	54.00	-16.72	Avg	92.28	128.59	
7425	58.26	V	74.00	-15.74	Peak	105.68	138.58	
7425	38.26	V	54.00	-15.74	Avg	105.68	138.58	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2015
 Model: URC-2125BC1-BX

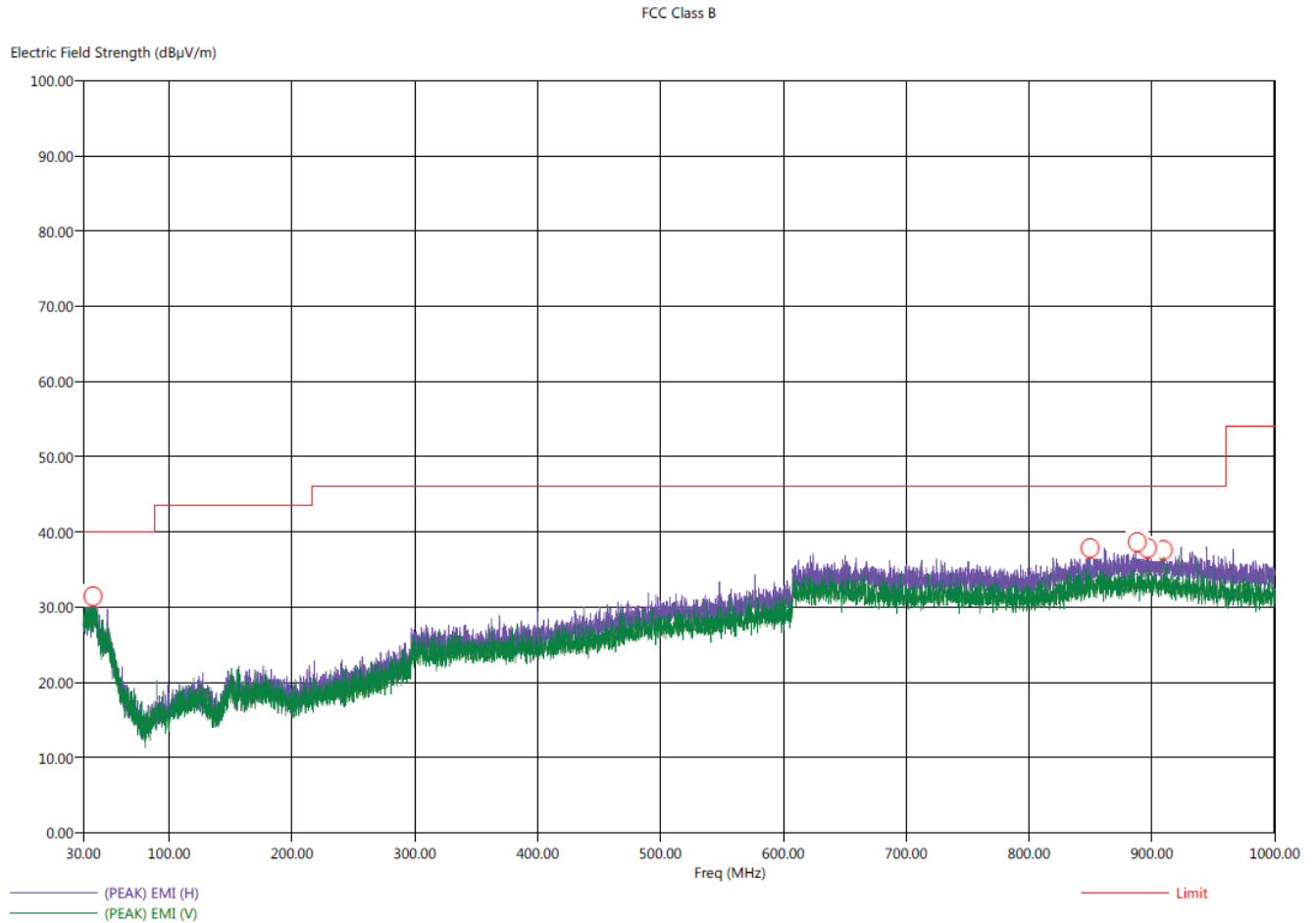
Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

High Channel
Z-Axis - Horizontal

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	100.66	H	114.00	-13.34	Peak	86.25	177.76	
2475	80.66	H	94.00	-13.34	Avg	86.25	177.76	
4950	62.42	H	74.00	-11.58	Peak	291.00	166.41	
4950	42.42	H	54.00	-11.58	Avg	291.00	166.41	
7425	60.16	H	74.00	-13.84	Peak	78.00	155.25	
7425	40.16	H	54.00	-13.84	Avg	78.00	155.25	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

Title: Pre-Scan - FCC Class B
 File: Agilent - Radiated Pre-Scan 30-1000Mhz - FCC - B - X-Axis 02-26-2016.set
 Operator: Kyle Fujimoto
 EUT Type: Champion Plus GP565 RF4CE Remote 2015
 EUT Condition: Continuously Transmitting - X-Axis
 Comments: Customer: Universal Electronics, Inc.
 M/N: URC-2125BC1-BX

2/26/2016 10:41:34 AM
 Sequence: Preliminary Scan



Note #1: X-Axis is the Worst Case

Note #2: No additional spurious emissions were found between 10 kHz – 30 MHz and 1 GHz – 25 GHz

Title: Radiated Final - 30-1000 MHz - FCC Class B
 File: Agilent - Radiated Final Scan 30-1000Mhz - FCC - B - X-Axis - 02-26-2016.set
 Operator: Kyle Fujimoto
 EUT Type: Champion Plus GP565 RF4CE Remote 2015
 EUT Condition: Continuously Transmitting - X-Axis
 Comments: Customer: Universal Electronics, Inc.
 M/N: URC-2425BC1-BX

2/26/2016 11:36:54 AM
 Sequence: Final Measurements

FCC Class B								
Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(OP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)
38.10	V	32.90	27.31	-7.10	-12.69	40.00	25.04	0.42
39.30	H	33.11	27.55	-6.89	-12.45	40.00	25.30	0.43
849.80	H	38.14	32.83	-7.86	-13.17	46.00	26.29	2.52
888.20	H	38.51	33.18	-7.49	-12.82	46.00	26.76	2.61
896.70	H	38.14	33.24	-7.86	-12.76	46.00	26.86	2.63
909.50	H	39.85	33.06	-6.15	-12.94	46.00	26.73	2.65

No additional spurious emissions were found between 10 kHz – 30 MHz and 1 GHz – 25 GHz



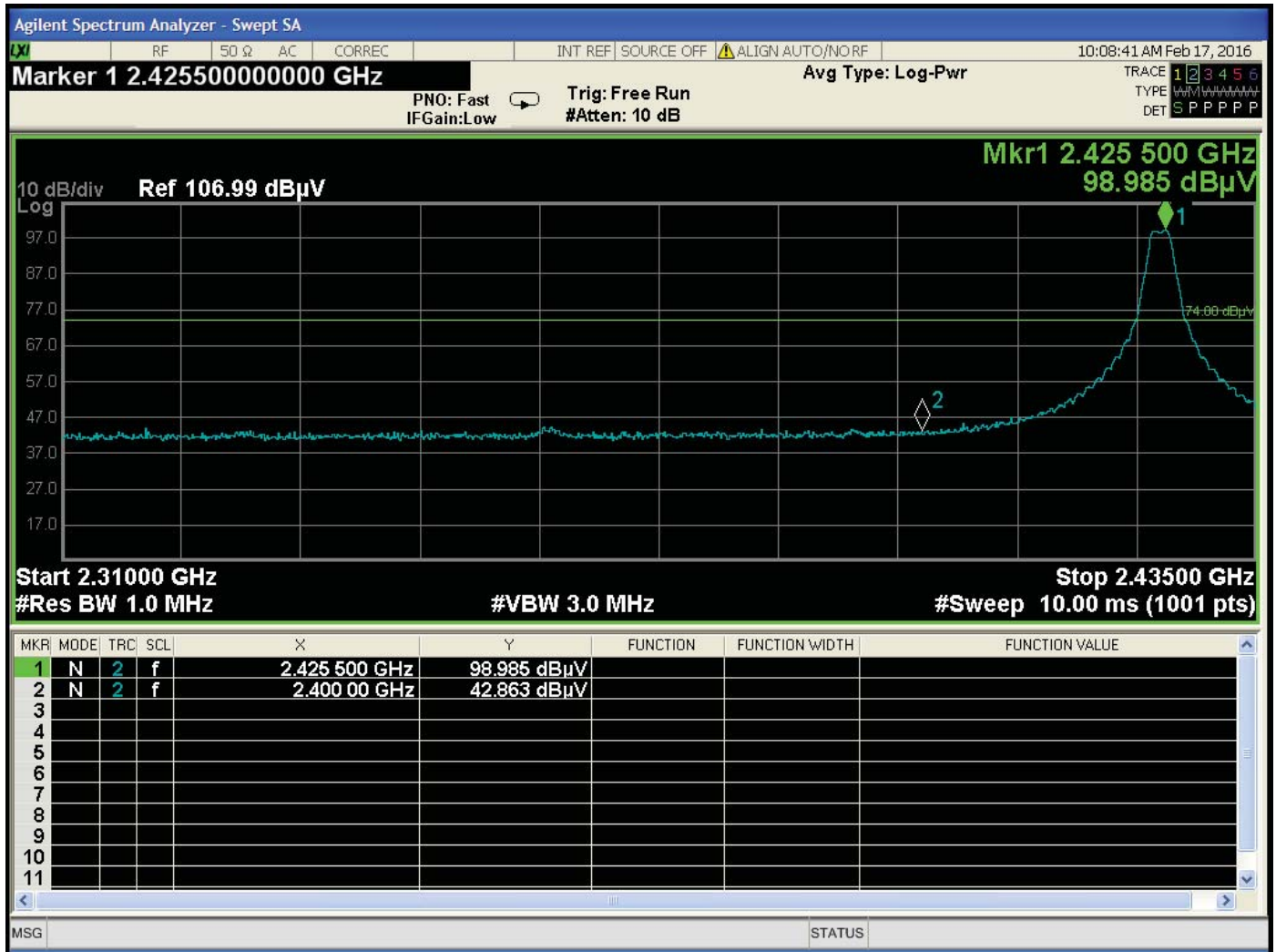
FCC 15.249

Universal Electronics, Inc.
 Champion Plus GP565 RF4CE Remote 2016
 Model: URC-2125BC1-BX

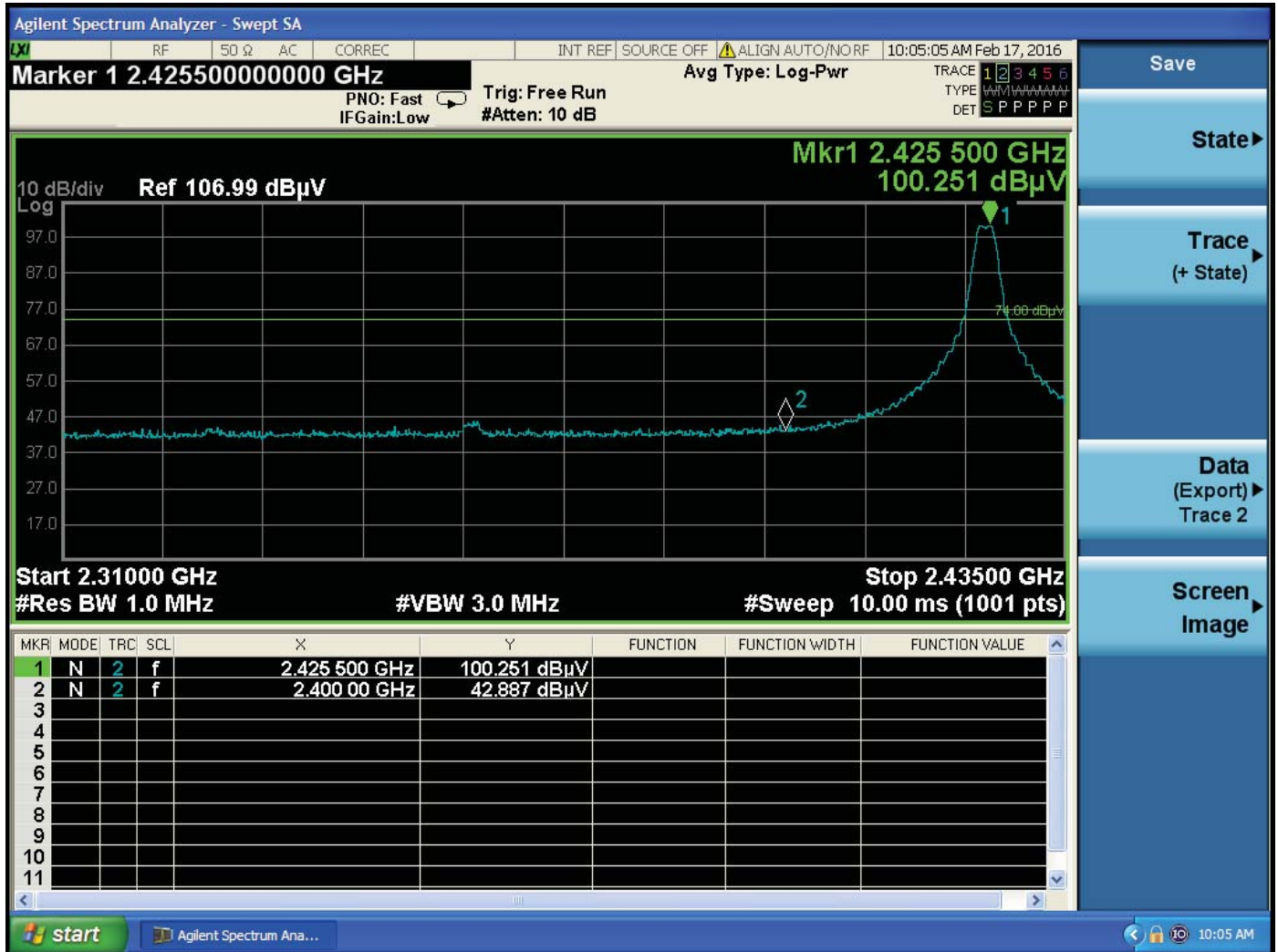
Date: 02/17/2016
 Lab: D
 Tested By: Kyle Fujimoto

Band Edges

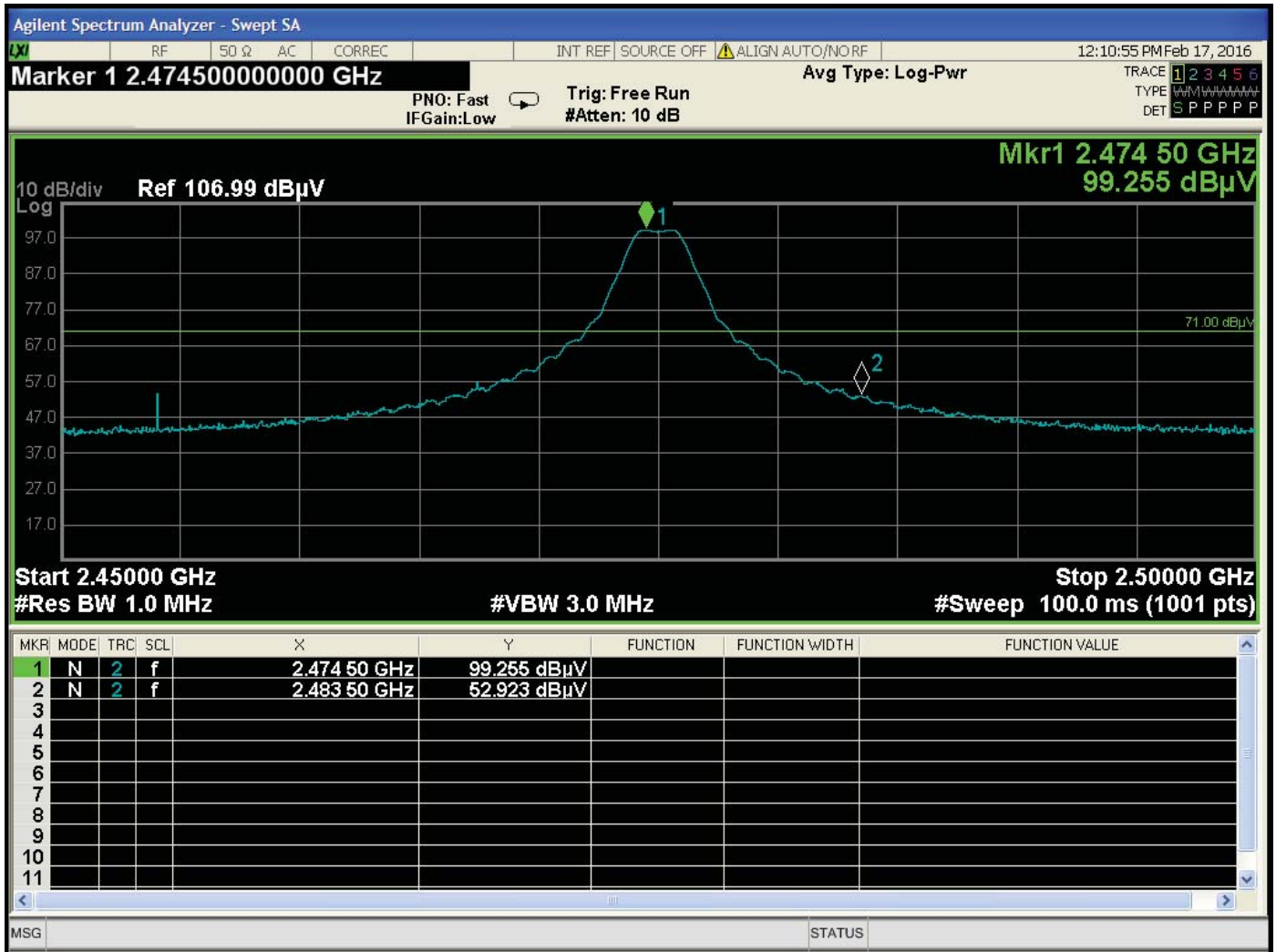
Freq. (MHz)	Level (dBuV)	Poi (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2425	98.99	V	114.00	-15.02	Peak	355.00	184.80	Fundamental
2425	78.99	V	94.00	-15.02	Avg	355.00	184.80	of Low Channel
2400	42.86	V	74.00	-31.14	Peak	355.00	184.80	Band Edge of Low Channel
2400	22.86	V	54.00	-31.14	Avg	355.00	184.80	Y-Axis Worst Case
2425	100.25	H	114.00	-13.75	Peak	315.75	170.05	Fundamental of
2425	80.25	H	94.00	-13.75	Avg	315.75	170.05	Low Channel
2400	42.89	H	74.00	-31.11	Peak	315.75	170.05	Band Edge of Low Channel
2400	22.89	H	54.00	-31.11	Avg	315.75	170.05	X-Axis Worst Case
2475	101.12	H	114.00	-12.88	Peak	320.50	156.62	Fundamental of
2475	81.12	H	94.00	-12.88	Avg	320.50	156.62	High Channel
2483.5	54.45	H	74.00	-19.55	Peak	320.50	156.62	Band Edge of High Channel
2483.5	34.45	H	54.00	-19.55	Avg	320.50	156.62	X-Axis Worst Case
2475	99.26	V	114.00	-14.75	Peak	182.50	145.64	Fundamental of
2475	79.26	V	94.00	-14.75	Avg	182.50	145.64	High Channel
2483.5	52.92	V	74.00	-21.08	Peak	182.50	145.64	Band Edge of High Channel
2483.5	32.92	V	54.00	-21.08	Avg	182.50	145.64	Y-Axis Worst Case



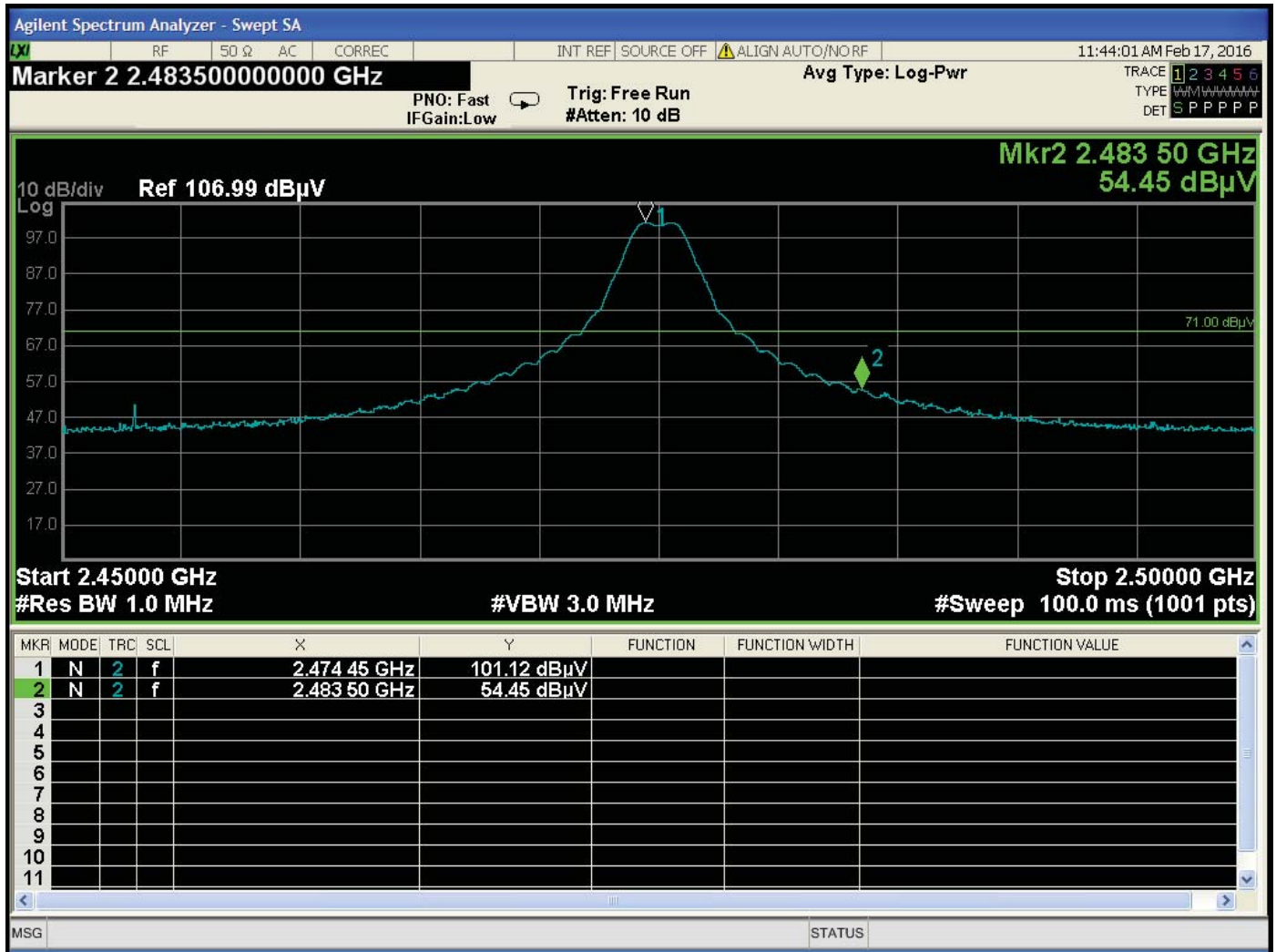
Band Edge – Low Channel – Vertical – Y-Axis



Band Edge – Low Channel – Horizontal – X-Axis



Band Edge – High Channel – Vertical – Y-Axis



Band Edge – High Channel – Horizontal – X-Axis