







**FCC 15.249**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**Low Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	51.02	V	74	-22.98	Peak	1	180	
4850	31.02	V	54	-22.98	Avg	1	180	
7275	47.41	V	74	-26.59	Peak	1.75	290	
7275	27.41	V	54	-26.59	Avg	1.75	290	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								



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Universal Electronics, Inc.  
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 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**Low Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	57.51	V	74	-16.49	Peak	1.75	200	
4850	37.51	V	54	-16.49	Avg	1.75	200	
7275	58.37	V	74	-15.63	Peak	2	160	
7275	38.37	V	54	-15.63	Avg	2	160	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								

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Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**Low Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	56.03	V	74	-17.97	Peak	2	140	
4850	36.03	V	54	-17.97	Avg	2	140	
7275	57.17	V	74	-16.83	Peak	2	180	
7275	37.17	V	54	-16.83	Avg	2	180	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								

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**Low Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	57.47	H	74	-16.53	Peak	2.25	240	
4850	37.47	H	54	-16.53	Avg	2.25	240	
7275	56.62	H	74	-17.38	Peak	1	220	
7275	36.62	H	54	-17.38	Avg	1	220	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								

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 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
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**Low Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	54.31	H	74	-19.69	Peak	1.25	180	
4850	34.31	H	54	-19.69	Avg	1.25	180	
7275	54.32	H	74	-19.68	Peak	1.25	140	
7275	34.32	H	54	-19.68	Avg	1.25	140	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								



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**Low Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4850	54.45	H	74	-19.55	Peak	1.5	140	
4850	34.45	H	54	-19.55	Avg	1.5	140	
7275	58.03	H	74	-15.97	Peak	2	210	
7275	38.03	H	54	-15.97	Avg	2	210	
9700								No Emissions Detected
9700								
12125								No Emissions Detected
12125								
14550								No Emissions Detected
14550								
16975								No Emissions Detected
16975								
19400								No Emissions Detected
19400								
21825								No Emissions Detected
21825								
24250								No Emissions Detected
24250								

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 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**Middle Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	49.97	V	74	-24.03	Peak	1.25	150	
4900	29.97	V	54	-24.03	Avg	1.25	150	
7350	50.03	V	74	-23.97	Peak	1	290	
7350	30.03	V	54	-23.97	Avg	1	290	
9800								No Emissions Detected
9800								
12250								No Emissions Detected
12250								
14700								No Emissions Detected
14700								
17150								No Emissions Detected
17150								
19600								No Emissions Detected
19600								
22050								No Emissions Detected
22050								
24500								No Emissions Detected
24500								

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**Middle Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	56.31	V	74	-17.69	Peak	1.5	220	
4900	36.31	V	54	-17.69	Avg	1.5	220	
7350	54.66	V	74	-19.34	Peak	1.25	170	
7350	34.66	V	54	-19.34	Avg	1.25	170	
9800								No Emissions Detected
9800								
12250								No Emissions Detected
12250								
14700								No Emissions Detected
14700								
17150								No Emissions Detected
17150								
19600								No Emissions Detected
19600								
22050								No Emissions Detected
22050								
24500								No Emissions Detected
24500								

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Universal Electronics, Inc.  
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 Lab: B  
 Tested By: Kyle Fujimoto

**Middle Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	55.18	V	74	-18.82	Peak	1.5	220	
4900	35.18	V	54	-18.82	Avg	1.5	220	
7350	57.18	V	74	-16.82	Peak	1.25	170	
7350	37.18	V	54	-16.82	Avg	1.25	170	
9800								No Emissions Detected
12250								No Emissions Detected
14700								No Emissions Detected
17150								No Emissions Detected
19600								No Emissions Detected
22050								No Emissions Detected
24500								No Emissions Detected



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**Middle Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	54.01	H	74	-19.99	Peak	1.25	165	
4900	34.01	H	54	-19.99	Avg	1.25	165	
7350	52.13	H	74	-21.87	Peak	1.25	165	
7350	32.13	H	54	-21.87	Avg	1.25	165	
9800								No Emissions Detected
12250								No Emissions Detected
14700								No Emissions Detected
17150								No Emissions Detected
19600								No Emissions Detected
22050								No Emissions Detected
24500								No Emissions Detected

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**Middle Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	50.77	H	74	-23.23	Peak	1.5	180	
4900	30.77	H	54	-23.23	Avg	1.5	180	
7350	50.35	H	74	-23.65	Peak	1.5	120	
7350	30.35	H	54	-23.65	Avg	1.5	120	
9800								No Emissions Detected
9800								
12250								No Emissions Detected
12250								
14700								No Emissions Detected
14700								
17150								No Emissions Detected
17150								
19600								No Emissions Detected
19600								
22050								No Emissions Detected
22050								
24500								No Emissions Detected
24500								

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Universal Electronics, Inc.  
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**Middle Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4900	55.03	H	74	-18.97	Peak	1.2	100	
4900	35.03	H	54	-18.97	Avg	1.2	100	
7350	53.39	H	74	-20.61	Peak	1.75	220	
7350	33.39	H	54	-20.61	Avg	1.75	220	
9800								No Emissions Detected
9800								
12250								No Emissions Detected
12250								
14700								No Emissions Detected
14700								
17150								No Emissions Detected
17150								
19600								No Emissions Detected
19600								
22050								No Emissions Detected
22050								
24500								No Emissions Detected
24500								

**FCC 15.249**

Universal Electronics, Inc.  
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**High Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.78	V	74	-19.22	Peak	1	170	
4950	34.78	V	54	-19.22	Avg	1	170	
7425	52.81	V	74	-21.19	Peak	1	40	
7425	32.81	V	54	-21.19	Avg	1	40	
9900								No Emissions Detected
9900								
12375								No Emissions Detected
12375								
14850								No Emissions Detected
14850								
17325								No Emissions Detected
17325								
19800								No Emissions Detected
19800								
22275								No Emissions Detected
22275								
24750								No Emissions Detected
24750								



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 Tested By: Kyle Fujimoto

**High Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	53.81	V	74	-20.19	Peak	1.75	180	
4950	33.81	V	54	-20.19	Avg	1.75	180	
7425	54.35	V	74	-19.65	Peak	1.75	170	
7425	34.35	V	54	-19.65	Avg	1.75	170	
9900								No Emissions Detected
12375								No Emissions Detected
14850								No Emissions Detected
17325								No Emissions Detected
19800								No Emissions Detected
22275								No Emissions Detected
24750								No Emissions Detected

**FCC 15.249**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**High Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	55.09	V	74	-18.91	Peak	1.5	130	
4950	35.09	V	54	-18.91	Avg	1.5	130	
7425	54.12	V	74	-19.88	Peak	2	180	
7425	34.12	V	54	-19.88	Avg	2	180	
9900								No Emissions Detected
12375								No Emissions Detected
14850								No Emissions Detected
17325								No Emissions Detected
19800								No Emissions Detected
22275								No Emissions Detected
24750								No Emissions Detected

**FCC 15.249**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**High Channel - Antenna RF2  
 Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	60.41	H	74	-13.59	Peak	1.5	180	
4950	40.41	H	54	-13.59	Avg	1.5	180	
7425	52.85	H	74	-21.15	Peak	1	20	
7425	32.85	H	54	-21.15	Avg	1	20	
9900								No Emissions Detected
12375								No Emissions Detected
14850								No Emissions Detected
17325								No Emissions Detected
19800								No Emissions Detected
22275								No Emissions Detected
24750								No Emissions Detected

**FCC 15.249**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**High Channel - Antenna RF2  
 Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	58.99	H	74	-15.01	Peak	1.5	40	
4950	38.99	H	54	-15.01	Avg	1.5	40	
7425	50.58	H	74	-23.42	Peak	1.75	170	
7425	30.58	H	54	-23.42	Avg	1.75	170	
9900								No Emissions Detected
12375								No Emissions Detected
14850								No Emissions Detected
17325								No Emissions Detected
19800								No Emissions Detected
22275								No Emissions Detected
24750								No Emissions Detected



**FCC 15.249**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
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Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**High Channel - Antenna RF2  
 Transmit Mode - Z-Axis**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	45.14	H	74	-28.86	Peak	1.75	140	
4950	25.14	H	54	-28.86	Avg	1.75	140	
7425	49.83	H	74	-24.17	Peak	1.5	260	
7425	29.83	H	54	-24.17	Avg	1.5	260	
9900								No Emissions Detected
12375								No Emissions Detected
14850								No Emissions Detected
17325								No Emissions Detected
19800								No Emissions Detected
22275								No Emissions Detected
24750								No Emissions Detected

**FCC 15.249 and FCC Class B**

Universal Electronics, Inc.  
 UEI Pulse RF4CE-GP 2012  
 Model: URC-2068BC2-XXXX-XXXX-R

Date: 02/26/2013  
 Lab: B  
 Tested By: Kyle Fujimoto

**Non Harmonic Emissions from the Tx and Digital Portion -- 1 GHz to 25000 MHz**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Found for the Digital Portion from 1 GHz to 25000 MHz for both Vertical and Horizontal Polarizations
								No Non Harmonic Emissions Found for the Tx Mode 1 GHz to 25000 MHz for both Vertical and Horizontal Polarizations
								No Emissions at the Band Edge of 2400 MHz when the EUT is on the Low Channel
								No Emissions at the Band Edge of 2483.5 MHz when the EUT is on the High Channel
								Tested in the X-Axis, Y-Axis, and Z-Axis

<b>Test Location</b> : Compatible Electronics	<b>Page</b> : 1/1
<b>Customer</b> : Universal Electronics, Inc.	<b>Date</b> : 03 / 04 / 2013
<b>Manufacturer</b> : Universal Electronics, Inc.	<b>Time</b> : 08:52:52 AM
<b>Eut name</b> : UEI Pulse RF4CE-GP 2012	<b>Lab</b> : D
<b>Model</b> : URC-2068BC2-XXXX-XXXX-R	<b>Test Distance</b> : 3.00
<b>Serial #</b> : N/A	
<b>Specification</b> : FCC B	
<b>Distance correction factor (20 * log(test/spec))</b> : 0.00	
<b>Test Type:</b> Spurious Emissions Qualification Scan	
<b>Test Range:</b> 10 kHz to 1 GHz (Vertical and Horizontal)	
<b>Transmit Frequency:</b> 2.45 GHz	
<b>Test Engineer:</b> James Ross	

Pol	Freq	Rdng	Cable	Ant	Amp	Cor'd	Limit	Delta
	MHz	dBuV	loss	factor	gain	rdg = R	= L	R-L
			dB	dB	dB	dBuV	dBuV/m	dB

**NOTE 1:** Both the RF1 and RF2 ports of the EUT were fully tested herein

**NOTE 2:** The frequency range of 10 kHz to 30 MHz was tested at 10 meters

**NOTE 3:** No spurious emissions were found between 10 kHz and 1 GHz

