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Job Number:	1001229549
Project Number:	10CA17291
File Number:	MC15832
FCC ID Number:	JPZ0071
IC ID Number:	2851A-JPZ0071
Date:	05 May 2010
Model:	RRD-H6BRL-XX

Electromagnetic Compatibility Test Report

For

LUTRON ELECTRONICS INC

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Job Number: 1001229549 File Number: MC15832 Page 2 of 89
Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
Client Name: LUTRON ELECTRONICS INC

Test Report Details

Tests Performed By: **Underwriters Laboratories Inc.**
1285 Walt Whitman Rd.
Melville, NY 11747

Tests Performed For: **Lutron Electronics Co., Inc.**
7200 Sutter Road
Cooperburg, PA 18036

Applicant Contact: **Matt Cardoni**
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Test Report Date: **05 May 2010**

Product Type: **Hybrid Dimmer/Keypad**

Product standards **FCC Part 15, Subparts B and C; RSS-GEN; RSS-210**

Model Number: **RRD-H6BRL-XX**

Sample Serial Number: **Non-serialized Production Unit**

EUT Category: **Periodic Low Power Transmitter**

Testing Start Date: **23 Apr 2010**

Date Testing Complete: **29 Apr 2010**

Overall Results: Compliant

Underwriters Laboratories Inc. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. Underwriters Laboratories Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Underwriters Laboratories Inc. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	-	-

1.0 GENERAL - Product Description

1.1 Equipment Description

RadioRA 2 Hybrid Keypads function as a dimmer and keypad combined into a single device. They are useful where lights need to be dimmed and controlled by a keypad in the same location. Hybrid Keypads are great for retro-fit applications because they eliminate the need to install two separate devices.

RadioRA 2 Hybrid Keypads have an available neutral wire terminal that allows them to be installed in either two-wire or neutral wire installations. If a neutral wire is available in the wallbox it should be connected to the silver terminal on the Hybrid Keypad. If a neutral wire is not available, then the silver terminal should be tightened without any wires connected to it. Hybrid Keypads can be installed in either single location or multi-location (with Remote Dimmer) installations.

RadioRA 2 Hybrid Keypads can be controlled as part of a lighting control system and incorporate advanced features such as fade on / fade off, delayed long fade off, and rapid full on.

RadioRA 2 Hybrid Keypads feature large, easy-to-use buttons, plus a unique backlit engraving option that makes them readable any time of the day or night. The Hybrid Keypad buttons are rounded, allowing engraving to be displayed at an upward angle, increasing readability. *RadioRA 2* Hybrid Keypads include a Front Accessible Service Switch (FASSTM) for safe lamp replacement.

The "XX" in the model name indicates the color options.

Per FCC Part 2.1093 (C) this device is not required to undergo testing for radio-frequency radiation exposure.

The antenna is permanently attached to the RF circuit board and is a PCB trace antenna.

1.2 Equipment Marking Plate



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 Client Name: LUTRON ELECTRONICS INC

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Hybrid Dimmer/Keypad	LUTRON ELECTRONICS INC	RRD-H6BRL-XX	"XX" indicates color option
Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)				

1.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	N	N	None
2	Load	I/O	N	N	None
Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

1.3.3 EUT Internal Operating Frequencies:

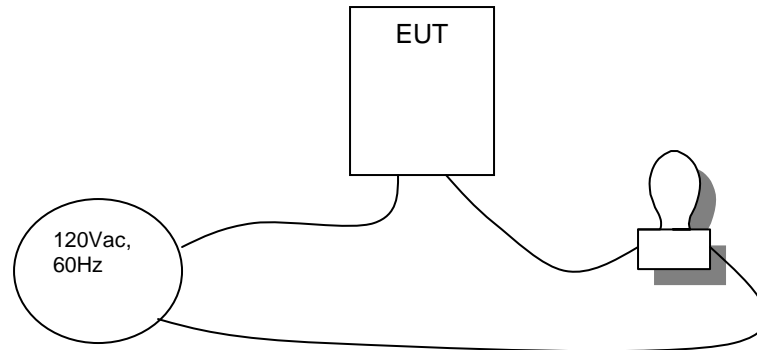
Frequency (MHz)	Description
RF Section	
431-437	Carrier (Fc) Frequency
0.203	Intermediate Frequency (IF)
3	SPI Interface
0.0625	Bi-Directional Data
Micro-Controller	
32	Clock
13	Bus
3	SPI Interface (CC1101)
1	SPI Interface (EEPROM)
0.0625	Bi-Directional Data
100Hz	PWM Signal fro LED Intensity Control
120Hz	Triac Control Signal for Load Control
Power Supply	
0.132	Switching Signal

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	120Vac	-	-	60Hz	Single Phase	None

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	EUT is power from a 120Vac/60Hz source and is loaded with a light bulb.

1.6 EUT Operation Modes

Mode #	Description
1	Constant transmit – 431MHz
2	Constant transmit – 437MHz
3	Receive Mode – 431MHz
4	Receive Mode – 437MHz
5	Normal Operation

2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by Underwriters Laboratories Inc. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

Standard Number	Standard Name	Standard Date
47 CFR Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
47 CFR Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
RSS-GEN, Issue 7	General Requirements and Information for the Certification of Radiocommunication Equipment	2007
RSS-210, Issue 2	Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007

2.4 Results Summary

This product is considered Class B

Requirement – Test	Result (Compliant / Non-Compliant)*
Cease Operation	Compliant
Conducted Emissions - Mains	Compliant
Fundamental Radiated Emissions	Compliant
General Radiated Emissions	Compliant
Occupied Bandwidth	Compliant
Pulse Train - Averaging Factor	Compliant
Pulse Train Measurement	Compliant
Radiated Emissions - Unintentional	Compliant
Spurious Radiated Emissions	Compliant

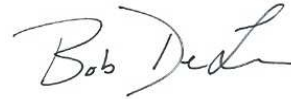
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Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
Client Name: LUTRON ELECTRONICS INC

Test Engineer:



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International EMC Services
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Senior Staff Engineer
International EMC Services
Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- North America -----

Code of Federal Regulations Title 47	Part 15, Subpart B, Radio Frequency Devices
Code of Federal Regulations Title 47	Part 15, Subpart C, Radio Frequency Devices
Industry Canada	RSS-GEN, RSS-210

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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4.1 Test Conditions and Results – Mains Terminal – Conducted Emissions

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15 – Subpart B, 15.107 & Subpart C, 15.207; RSS-GEN; RSS-210	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limit – FCC Part 15: Subpart B, 15.107 & Subpart C, 15.207		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

Table 1 Conducted Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1,2,3,4
Supplementary information: None		

Table 2 Conducted Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Conducted Emissions – GP 1			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
LISN	Solar	9252-50-R-24-BNC	ME5A-636
Switch Driver	HP	11713A	44397
RF Switch Box	UL	4	44404
Measurement Software	UL	Version 9.3	44736
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Multimeter	Fluke	87V	64386

Figure 1 Test Setup for Conducted Emissions



Figure 2 Conducted Emissions Graph

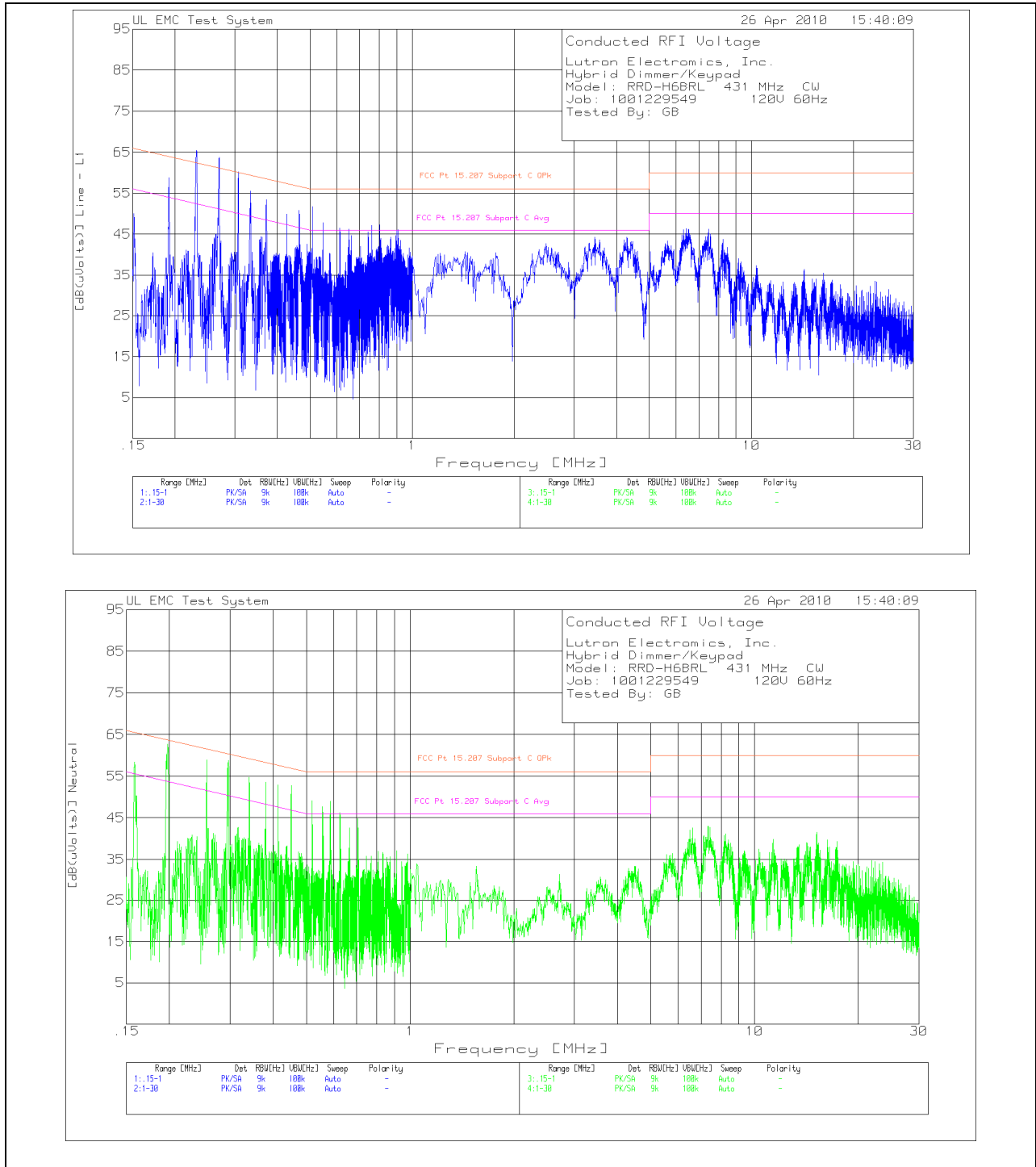


Table 3 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1	.15	----- 1MHz -----									
1	.15119	40.08 pk	10	0	50.08	65.9	55.9	-	-	-	-
				Margin [dB]		-15.82	-5.82	-	-	-	-
2	.19217	48.83 pk	10	0	58.83	63.9	53.9	-	-	-	-
				Margin [dB]		-5.07	4.93	-	-	-	-
3	.23128	55.47 pk	10	0	65.47	62.4	52.4	-	-	-	-
				Margin [dB]		3.07	13.07	-	-	-	-
4	.26987	53.74 pk	10	0	63.74	61.1	51.1	-	-	-	-
				Margin [dB]		2.64	12.64	-	-	-	-
5	.30762	50.23 pk	10	0	60.23	60	50	-	-	-	-
				Margin [dB]		.23	10.23	-	-	-	-
6	.3333	45.52 pk	10	0	55.52	59.4	49.4	-	-	-	-
				Margin [dB]		-3.88	6.12	-	-	-	-
7	.37138	43.44 pk	10	0	53.44	58.5	48.5	-	-	-	-
				Margin [dB]		-5.06	4.94	-	-	-	-
8	.42631	39.94 pk	10	0	49.94	57.3	47.3	-	-	-	-
				Margin [dB]		-7.36	2.64	-	-	-	-
9	.46439	40.76 pk	10	0	50.76	56.6	46.6	-	-	-	-
				Margin [dB]		-5.84	4.16	-	-	-	-
10	.50809	41.66 pk	10	0	51.66	56	46	-	-	-	-
				Margin [dB]		-4.34	5.66	-	-	-	-
11	.5455	37.76 pk	10	0	47.76	56	46	-	-	-	-
				Margin [dB]		-8.24	1.76	-	-	-	-
12	.61215	36.54 pk	10	0	46.54	56	46	-	-	-	-
				Margin [dB]		-9.46	.54	-	-	-	-
13	.65024	36.29 pk	10	0	46.29	56	46	-	-	-	-
				Margin [dB]		-9.71	.29	-	-	-	-
14	.66197	34.69 pk	10	0	44.69	56	46	-	-	-	-
				Margin [dB]		-11.31	-1.31	-	-	-	-
15	.70346	32.1 pk	10	0	42.1	56	46	-	-	-	-
				Margin [dB]		-13.9	-3.9	-	-	-	-
16	.74155	35.57 pk	10	0	45.57	56	46	-	-	-	-
				Margin [dB]		-10.43	-.43	-	-	-	-
17	.76008	37.15 pk	10	0	47.15	56	46	-	-	-	-
				Margin [dB]		-8.85	1.15	-	-	-	-
18	.80217	37.24 pk	10	0	47.24	56	46	-	-	-	-
				Margin [dB]		-8.76	1.24	-	-	-	-
19	.86448	34.27 pk	10	0	44.27	56	46	-	-	-	-
				Margin [dB]		-11.73	-1.73	-	-	-	-
20	.90121	35.94 pk	10	0	45.94	56	46	-	-	-	-
				Margin [dB]		-10.06	-.06	-	-	-	-

Line - L1	1	----- 30MHz -----									
21	2.4793	32.61 pk	10.1	0	42.71	56	46	-	-	-	-
				Margin [dB]		-13.29	-3.29	-	-	-	-
22	3.44809	34.16 pk	10.1	0	44.26	56	46	-	-	-	-
				Margin [dB]		-11.74	-1.74	-	-	-	-
23	4.29506	34.12 pk	10.2	0	44.32	56	46	-	-	-	-
				Margin [dB]		-11.68	-1.68	-	-	-	-

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 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
24	6.41248	36.14 pk	10.2	0	46.34	60	50	-	-	-	-
					Margin [dB]	-13.66	-3.66	-	-	-	-
25	7.46829	35.93 pk	10.3	0	46.23	60	50	-	-	-	-
					Margin [dB]	-13.77	-3.77	-	-	-	-
Neutral .15 - 1MHz -----											
26	.15833	48.24 pk	10.1	0	58.34	65.6	55.6	-	-	-	-
					Margin [dB]	-7.26	2.74	-	-	-	-
27	.19778	52.73 pk	10	0	62.73	63.7	53.7	-	-	-	-
					Margin [dB]	-.97	9.03	-	-	-	-
28	.25627	48.81 pk	10.1	0	58.91	61.6	51.6	-	-	-	-
					Margin [dB]	-2.69	7.31	-	-	-	-
29	.29708	48.71 pk	10.1	0	58.81	60.3	50.3	-	-	-	-
					Margin [dB]	-1.49	8.51	-	-	-	-
30	.34129	44.56 pk	10.1	0	54.66	59.2	49.2	-	-	-	-
					Margin [dB]	-4.54	5.46	-	-	-	-
31	.38142	43.46 pk	10.1	0	53.56	58.2	48.2	-	-	-	-
					Margin [dB]	-4.64	5.36	-	-	-	-
32	.41304	42.78 pk	10.1	0	52.88	57.6	47.6	-	-	-	-
					Margin [dB]	-4.72	5.28	-	-	-	-
33	.45096	35.65 pk	10.1	0	45.75	56.9	46.9	-	-	-	-
					Margin [dB]	-11.15	-1.15	-	-	-	-
34	.51897	38.98 pk	10.1	0	49.08	56	46	-	-	-	-
					Margin [dB]	-6.92	3.08	-	-	-	-
35	.55672	37.63 pk	10.1	0	47.73	56	46	-	-	-	-
					Margin [dB]	-8.27	1.73	-	-	-	-
36	.58682	38.91 pk	10.1	0	49.01	56	46	-	-	-	-
					Margin [dB]	-6.99	3.01	-	-	-	-
37	.62542	36.16 pk	10.1	0	46.26	56	46	-	-	-	-
					Margin [dB]	-9.74	.26	-	-	-	-
38	.70499	34.73 pk	10.1	0	44.83	56	46	-	-	-	-
					Margin [dB]	-11.17	-1.17	-	-	-	-

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.15081	37.65	qp 10	0	47.65	66	56	-	-	-	-
				Margin [dB]:	-18.35	-8.35	-	-	-	-
.19301	48.69	qp 10	0	58.69	63.9	53.9	-	-	-	-
				Margin [dB]:	-5.21	4.79	-	-	-	-
.23158	50.06	qp 10	0	60.06	62.4	52.4	-	-	-	-
				Margin [dB]:	-2.34	7.66	-	-	-	-
.2691	50.37	qp 10	0	60.37	61.1	51.1	-	-	-	-
				Margin [dB]:	-.73	9.27	-	-	-	-
.30742	46.16	qp 10	0	56.16	60	50	-	-	-	-
				Margin [dB]:	-3.84	6.16	-	-	-	-
.33317	45.58	qp 10	0	55.58	59.4	49.4	-	-	-	-
				Margin [dB]:	-3.82	6.18	-	-	-	-
.37074	43.39	qp 10	0	53.39	58.5	48.5	-	-	-	-
				Margin [dB]:	-5.11	4.89	-	-	-	-
.42674	40.31	qp 10	0	50.31	57.3	47.3	-	-	-	-
				Margin [dB]:	-6.99	3.01	-	-	-	-
.4649	37.91	qp 10	0	47.91	56.6	46.6	-	-	-	-
				Margin [dB]:	-8.69	1.31	-	-	-	-
.5075	35.19	qp 10	0	45.19	56	46	-	-	-	-
				Margin [dB]:	-10.81	-.81	-	-	-	-
.54485	32.3	qp 10	0	42.3	56	46	-	-	-	-
				Margin [dB]:	-13.7	-3.7	-	-	-	-
.61201	30.75	qp 10	0	40.75	56	46	-	-	-	-
				Margin [dB]:	-15.25	-5.25	-	-	-	-
.65025	31.56	qp 10	0	41.56	56	46	-	-	-	-
				Margin [dB]:	-14.44	-4.44	-	-	-	-
.66168	30.65	qp 10	0	40.65	56	46	-	-	-	-
				Margin [dB]:	-15.35	-5.35	-	-	-	-
.70344	30.54	qp 10	0	40.54	56	46	-	-	-	-
				Margin [dB]:	-15.46	-5.46	-	-	-	-
.74181	31.59	qp 10	0	41.59	56	46	-	-	-	-
				Margin [dB]:	-14.41	-4.41	-	-	-	-
.75965	30.92	qp 10	0	40.92	56	46	-	-	-	-
				Margin [dB]:	-15.08	-5.08	-	-	-	-
.80166	31.21	qp 10	0	41.21	56	46	-	-	-	-
				Margin [dB]:	-14.79	-4.79	-	-	-	-
.86427	30.54	qp 10	0	40.54	56	46	-	-	-	-
				Margin [dB]:	-15.46	-5.46	-	-	-	-
.90185	31.74	qp 10	0	41.74	56	46	-	-	-	-
				Margin [dB]:	-14.26	-4.26	-	-	-	-
Line - L1 1 - 30MHz										
2.4791	28.97	qp 10.1	0	39.07	56	46	-	-	-	-
				Margin [dB]:	-16.93	-6.93	-	-	-	-
3.44814	34.99	qp 10.1	0	45.09	56	46	-	-	-	-
				Margin [dB]:	-10.91	-.91	-	-	-	-
4.29502	36.74	qp 10.2	0	46.94	56	46	-	-	-	-
				Margin [dB]:	-9.06	.94	-	-	-	-
6.41252	35.69	qp 10.2	0	45.89	60	50	-	-	-	-
				Margin [dB]:	-14.11	-4.11	-	-	-	-
7.46893	32.15	qp 10.3	0	42.45	60	50	-	-	-	-
				Margin [dB]:	-17.55	-7.55	-	-	-	-
Neutral .15 - 1MHz										
.15899	48.12	qp 10.1	0	58.22	65.5	55.5	-	-	-	-
				Margin [dB]:	-7.28	2.72	-	-	-	-

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
.19778	50.36 QP	10	0	60.36	63.7	53.7	-	-	-	-
			Margin [dB]:	-3.34	6.66	-	-	-	-	-
.257	47.71 QP	10.1	0	57.81	61.5	51.5	-	-	-	-
			Margin [dB]:	-3.69	6.31	-	-	-	-	-
.29738	47.02 QP	10.1	0	57.12	60.3	50.3	-	-	-	-
			Margin [dB]:	-3.18	6.82	-	-	-	-	-
.34184	42.29 QP	10.1	0	52.39	59.2	49.2	-	-	-	-
			Margin [dB]:	-6.81	3.19	-	-	-	-	-
.38196	35.29 QP	10.1	0	45.39	58.2	48.2	-	-	-	-
			Margin [dB]:	-12.81	-2.81	-	-	-	-	-
.4123	33.68 QP	10.1	0	43.78	57.6	47.6	-	-	-	-
			Margin [dB]:	-13.82	-3.82	-	-	-	-	-
.45065	37.84 QP	10.1	0	47.94	56.9	46.9	-	-	-	-
			Margin [dB]:	-8.96	1.04	-	-	-	-	-
.5194	36.26 QP	10.1	0	46.36	56	46	-	-	-	-
			Margin [dB]:	-9.64	.36	-	-	-	-	-
.55681	32.39 QP	10.1	0	42.49	56	46	-	-	-	-
			Margin [dB]:	-13.51	-3.51	-	-	-	-	-
.58652	31.59 QP	10.1	0	41.69	56	46	-	-	-	-
			Margin [dB]:	-14.31	-4.31	-	-	-	-	-
.62484	29.87 QP	10.1	0	39.97	56	46	-	-	-	-
			Margin [dB]:	-16.03	-6.03	-	-	-	-	-
.70519	26.58 QP	10.1	0	36.68	56	46	-	-	-	-
			Margin [dB]:	-19.32	-9.32	-	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.15081	17.31 AV	10	0	27.31	66	56	-	-	-	-
			Margin [dB]:		-38.69	-28.69	-	-	-	-
.19301	28.32 AV	10	0	38.32	63.9	53.9	-	-	-	-
			Margin [dB]:		-25.58	-15.58	-	-	-	-
.23158	30.76 AV	10	0	40.76	62.4	52.4	-	-	-	-
			Margin [dB]:		-21.64	-11.64	-	-	-	-
.2691	31.08 AV	10	0	41.08	61.1	51.1	-	-	-	-
			Margin [dB]:		-20.02	-10.02	-	-	-	-
.30742	26.38 AV	10	0	36.38	60	50	-	-	-	-
			Margin [dB]:		-23.62	-13.62	-	-	-	-
.33317	28.45 AV	10	0	38.45	59.4	49.4	-	-	-	-
			Margin [dB]:		-20.95	-10.95	-	-	-	-
.37074	25.87 AV	10	0	35.87	58.5	48.5	-	-	-	-
			Margin [dB]:		-22.63	-12.63	-	-	-	-
.42674	25.24 AV	10	0	35.24	57.3	47.3	-	-	-	-
			Margin [dB]:		-22.06	-12.06	-	-	-	-
.4649	23.91 AV	10	0	33.91	56.6	46.6	-	-	-	-
			Margin [dB]:		-22.69	-12.69	-	-	-	-
.5075	20.16 AV	10	0	30.16	56	46	-	-	-	-
			Margin [dB]:		-25.84	-15.84	-	-	-	-
.54485	18.44 AV	10	0	28.44	56	46	-	-	-	-
			Margin [dB]:		-27.56	-17.56	-	-	-	-
.61201	19.12 AV	10	0	29.12	56	46	-	-	-	-
			Margin [dB]:		-26.88	-16.88	-	-	-	-
.65025	20.3 AV	10	0	30.3	56	46	-	-	-	-
			Margin [dB]:		-25.7	-15.7	-	-	-	-
.66168	19.21 AV	10	0	29.21	56	46	-	-	-	-
			Margin [dB]:		-26.79	-16.79	-	-	-	-
.70344	21.35 AV	10	0	31.35	56	46	-	-	-	-
			Margin [dB]:		-24.65	-14.65	-	-	-	-
.74181	23.03 AV	10	0	33.03	56	46	-	-	-	-
			Margin [dB]:		-22.97	-12.97	-	-	-	-
.75965	21.55 AV	10	0	31.55	56	46	-	-	-	-
			Margin [dB]:		-24.45	-14.45	-	-	-	-
.80166	22.59 AV	10	0	32.59	56	46	-	-	-	-
			Margin [dB]:		-23.41	-13.41	-	-	-	-
.86427	23.08 AV	10	0	33.08	56	46	-	-	-	-
			Margin [dB]:		-22.92	-12.92	-	-	-	-
.90185	23.38 AV	10	0	33.38	56	46	-	-	-	-
			Margin [dB]:		-22.62	-12.62	-	-	-	-
Line - L1 1 - 30MHz										
2.4791	25.1 AV	10.1	0	35.2	56	46	-	-	-	-
			Margin [dB]:		-20.8	-10.8	-	-	-	-
3.44814	26.88 AV	10.1	0	36.98	56	46	-	-	-	-
			Margin [dB]:		-19.02	-9.02	-	-	-	-
4.29502	27.92 AV	10.2	0	38.12	56	46	-	-	-	-
			Margin [dB]:		-17.88	-7.88	-	-	-	-
6.41252	30.39 AV	10.2	0	40.59	60	50	-	-	-	-
			Margin [dB]:		-19.41	-9.41	-	-	-	-
7.46893	26.85 AV	10.3	0	37.15	60	50	-	-	-	-
			Margin [dB]:		-22.85	-12.85	-	-	-	-
Neutral .15 - 1MHz										
.15899	26.79 AV	10.1	0	36.89	65.5	55.5	-	-	-	-
			Margin [dB]:		-28.61	-18.61	-	-	-	-

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
.19778	29.75 AV	10	0	39.75	63.7	53.7	-	-	-	-
			Margin [dB]:		-23.95	-13.95	-	-	-	-
.257	25.54 AV	10.1	0	35.64	61.5	51.5	-	-	-	-
			Margin [dB]:		-25.86	-15.86	-	-	-	-
.29738	28.15 AV	10.1	0	38.25	60.3	50.3	-	-	-	-
			Margin [dB]:		-22.05	-12.05	-	-	-	-
.34184	22.32 AV	10.1	0	32.42	59.2	49.2	-	-	-	-
			Margin [dB]:		-26.78	-16.78	-	-	-	-
.38196	16.06 AV	10.1	0	26.16	58.2	48.2	-	-	-	-
			Margin [dB]:		-32.04	-22.04	-	-	-	-
.4123	15.57 AV	10.1	0	25.67	57.6	47.6	-	-	-	-
			Margin [dB]:		-31.93	-21.93	-	-	-	-
.45065	19.34 AV	10.1	0	29.44	56.9	46.9	-	-	-	-
			Margin [dB]:		-27.46	-17.46	-	-	-	-
.5194	17.1 AV	10.1	0	27.2	56	46	-	-	-	-
			Margin [dB]:		-28.8	-18.8	-	-	-	-
.55681	14.48 AV	10.1	0	24.58	56	46	-	-	-	-
			Margin [dB]:		-31.42	-21.42	-	-	-	-
.58652	14.95 AV	10.1	0	25.05	56	46	-	-	-	-
			Margin [dB]:		-30.95	-20.95	-	-	-	-
.62484	13.73 AV	10.1	0	23.83	56	46	-	-	-	-
			Margin [dB]:		-32.17	-22.17	-	-	-	-
.70519	14.73 AV	10.1	0	24.83	56	46	-	-	-	-
			Margin [dB]:		-31.17	-21.17	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Figure 3 Conducted Emissions Graph

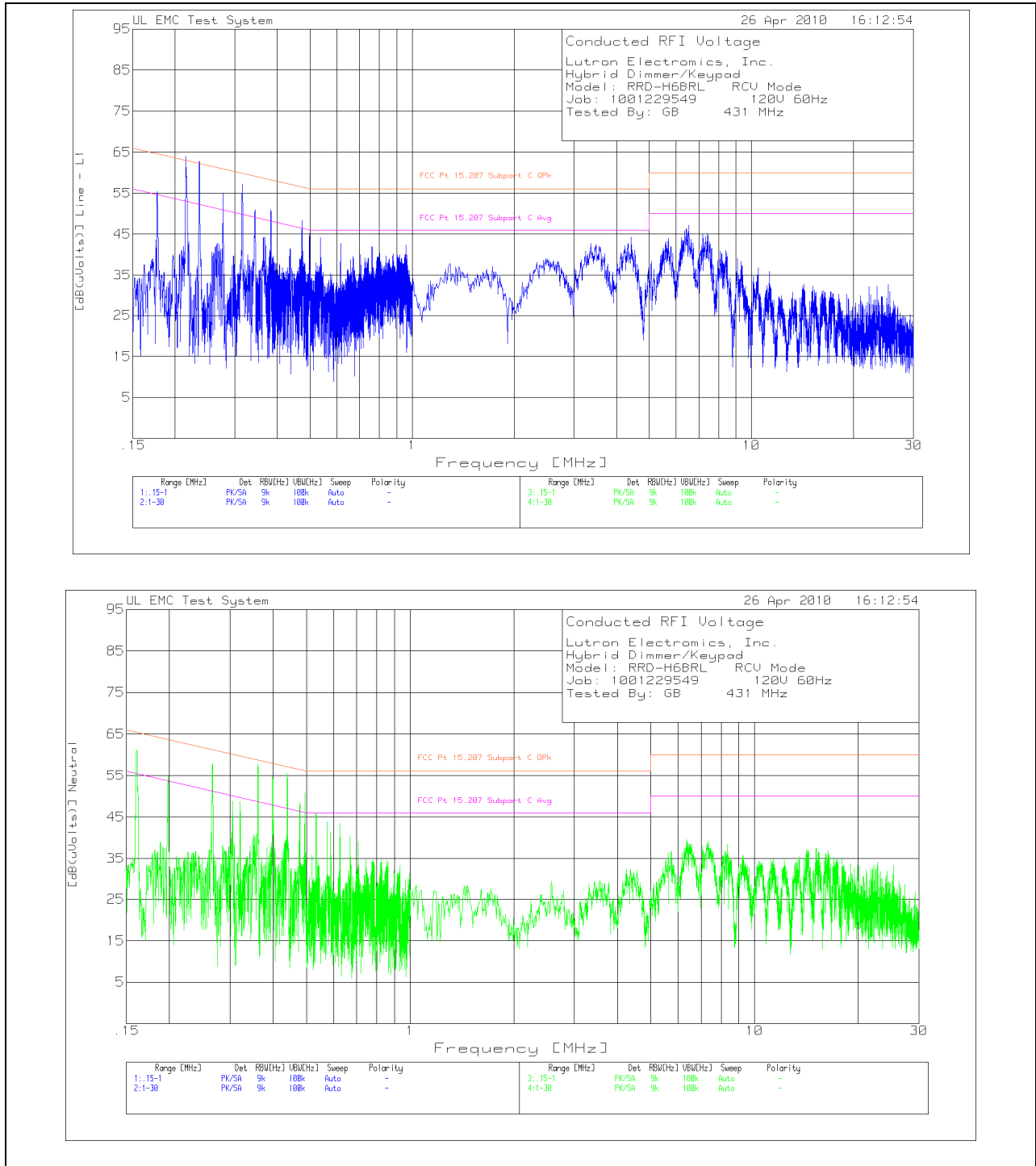


Table 4 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 431 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1 .15 - 1MHz -----											
1	.17721	45.37 pk	10	0	55.37	64.6	54.6	-	-	-	-
					Margin [dB]	-9.23	.77	-	-	-	-
2	.21487	54.03 pk	10	0	64.03	63	53	-	-	-	-
					Margin [dB]	1.03	11.03	-	-	-	-
3	.2357	52.7 pk	10	0	62.7	62.2	52.2	-	-	-	-
					Margin [dB]	.5	10.5	-	-	-	-
4	.27736	44.87 pk	10	0	54.87	60.9	50.9	-	-	-	-
					Margin [dB]	-6.03	3.97	-	-	-	-
5	.31587	47.16 pk	10	0	57.16	59.8	49.8	-	-	-	-
					Margin [dB]	-2.64	7.36	-	-	-	-
6	.34469	40.91 pk	10	0	50.91	59.1	49.1	-	-	-	-
					Margin [dB]	-8.19	1.81	-	-	-	-
7	.36781	34.29 pk	10	0	44.29	58.6	48.6	-	-	-	-
					Margin [dB]	-14.31	-4.31	-	-	-	-
8	.38329	40.95 pk	10	0	50.95	58.2	48.2	-	-	-	-
					Margin [dB]	-7.25	2.75	-	-	-	-
9	.47358	38.34 pk	10	0	48.34	56.5	46.5	-	-	-	-
					Margin [dB]	-8.16	1.84	-	-	-	-
10	.49806	35.14 pk	10	0	45.14	56	46	-	-	-	-
					Margin [dB]	-10.86	-.86	-	-	-	-
11	.53649	34.19 pk	10	0	44.19	56	46	-	-	-	-
					Margin [dB]	-11.81	-1.81	-	-	-	-
12	.6147	32.39 pk	10	0	42.39	56	46	-	-	-	-
					Margin [dB]	-13.61	-3.61	-	-	-	-
13	.70482	30.15 pk	10	0	40.15	56	46	-	-	-	-
					Margin [dB]	-15.85	-5.85	-	-	-	-
14	.7611	32.02 pk	10	0	42.02	56	46	-	-	-	-
					Margin [dB]	-13.98	-3.98	-	-	-	-
15	.95953	32.37 pk	10	0	42.37	56	46	-	-	-	-
					Margin [dB]	-13.63	-3.63	-	-	-	-

Line - L1 1 - 30MHz -----											
16	3.36687	32.6 pk	10.1	0	42.7	56	46	-	-	-	-
					Margin [dB]	-13.3	-3.3	-	-	-	-
17	4.41688	34.07 pk	10.2	0	44.27	56	46	-	-	-	-
					Margin [dB]	-11.73	-1.73	-	-	-	-
18	6.54011	36.93 pk	10.2	0	47.13	60	50	-	-	-	-
					Margin [dB]	-12.87	-2.87	-	-	-	-
19	7.41608	34.93 pk	10.3	0	45.23	60	50	-	-	-	-
					Margin [dB]	-14.77	-4.77	-	-	-	-

Neutral .15 - 1MHz -----											
20	.16071	51.06 pk	10.1	0	61.16	65.4	55.4	-	-	-	-
					Margin [dB]	-4.24	5.76	-	-	-	-
21	.19829	44.85 pk	10	0	54.85	63.7	53.7	-	-	-	-
					Margin [dB]	-8.85	1.15	-	-	-	-
22	.26698	47.69 pk	10.1	0	57.79	61.2	51.2	-	-	-	-
					Margin [dB]	-3.41	6.59	-	-	-	-
23	.30541	38.75 pk	10.1	0	48.85	60.1	50.1	-	-	-	-
					Margin [dB]	-11.25	-1.25	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 24 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
24	.32003	38.57 pk	10.1	0	48.67	59.7	49.7	-	-	-	-
					Margin [dB]	-11.03	-1.03	-	-	-	-
25	.36152	47.59 pk	10.1	0	57.69	58.7	48.7	-	-	-	-
					Margin [dB]	-1.01	8.99	-	-	-	-
26	.47868	38.33 pk	10.1	0	48.43	56.4	46.4	-	-	-	-
					Margin [dB]	-7.97	2.03	-	-	-	-
27	.43965	45.43 pk	10.1	0	55.53	57.1	47.1	-	-	-	-
					Margin [dB]	-1.57	8.43	-	-	-	-
28	.39893	44.46 pk	10.1	0	54.56	57.9	47.9	-	-	-	-
					Margin [dB]	-3.34	6.66	-	-	-	-
29	.49466	40.64 pk	10.1	0	50.74	56.1	46.1	-	-	-	-
					Margin [dB]	-5.36	4.64	-	-	-	-
30	.53343	35.71 pk	10.1	0	45.81	56	46	-	-	-	-
					Margin [dB]	-10.19	-.19	-	-	-	-
31	.57492	33.8 pk	10.1	0	43.9	56	46	-	-	-	-
					Margin [dB]	-12.1	-2.1	-	-	-	-
32	.58733	31.24 pk	10.1	0	41.34	56	46	-	-	-	-
					Margin [dB]	-14.66	-4.66	-	-	-	-
33	.62474	33.44 pk	10.1	0	43.54	56	46	-	-	-	-
					Margin [dB]	-12.46	-2.46	-	-	-	-

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 431 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.17676	48.39 qp	10	0	58.39	64.6	54.6	-	-	-	-
			Margin [dB]:		-6.21	3.79	-	-	-	-
.21426	48.64 qp	10	0	58.64	63	53	-	-	-	-
			Margin [dB]:		-4.36	5.64	-	-	-	-
.23634	46.89 qp	10	0	56.89	62.2	52.2	-	-	-	-
			Margin [dB]:		-5.31	4.69	-	-	-	-
.27678	37.4 qp	10	0	47.4	60.9	50.9	-	-	-	-
			Margin [dB]:		-13.5	-3.5	-	-	-	-
.31581	43.02 qp	10	0	53.02	59.8	49.8	-	-	-	-
			Margin [dB]:		-6.78	3.22	-	-	-	-
.34518	43.34 qp	10	0	53.34	59.1	49.1	-	-	-	-
			Margin [dB]:		-5.76	4.24	-	-	-	-
.36803	41.17 qp	10	0	51.17	58.5	48.5	-	-	-	-
			Margin [dB]:		-7.33	2.67	-	-	-	-
.38288	37.2 qp	10	0	47.2	58.2	48.2	-	-	-	-
			Margin [dB]:		-11	-1	-	-	-	-
.47351	35.49 qp	10	0	45.49	56.5	46.5	-	-	-	-
			Margin [dB]:		-11.01	-1.01	-	-	-	-
.49785	34.67 qp	10	0	44.67	56	46	-	-	-	-
			Margin [dB]:		-11.33	-1.33	-	-	-	-
.53649	33.41 qp	10	0	43.41	56	46	-	-	-	-
			Margin [dB]:		-12.59	-2.59	-	-	-	-
.61475	27.84 qp	10	0	37.84	56	46	-	-	-	-
			Margin [dB]:		-18.16	-8.16	-	-	-	-
.70484	28.97 qp	10	0	38.97	56	46	-	-	-	-
			Margin [dB]:		-17.03	-7.03	-	-	-	-
.76098	28.85 qp	10	0	38.85	56	46	-	-	-	-
			Margin [dB]:		-17.15	-7.15	-	-	-	-
.95933	28.36 qp	10	0	38.36	56	46	-	-	-	-
			Margin [dB]:		-17.64	-7.64	-	-	-	-
Line - L1 1 - 30MHz										
3.36675	29.23 qp	10.1	0	39.33	56	46	-	-	-	-
			Margin [dB]:		-16.67	-6.67	-	-	-	-
4.41716	31.21 qp	10.2	0	41.41	56	46	-	-	-	-
			Margin [dB]:		-14.59	-4.59	-	-	-	-
6.54057	33.37 qp	10.2	0	43.57	60	50	-	-	-	-
			Margin [dB]:		-16.43	-6.43	-	-	-	-
7.41588	33.12 qp	10.3	0	43.42	60	50	-	-	-	-
			Margin [dB]:		-16.58	-6.58	-	-	-	-
Neutral .15 - 1MHz										
.16016	49 qp	10.1	0	59.1	65.5	55.5	-	-	-	-
			Margin [dB]:		-6.4	3.6	-	-	-	-
.19846	46.73 qp	10	0	56.73	63.7	53.7	-	-	-	-
			Margin [dB]:		-6.97	3.03	-	-	-	-
.26644	48.04 qp	10.1	0	58.14	61.2	51.2	-	-	-	-
			Margin [dB]:		-3.06	6.94	-	-	-	-
.30535	45.3 qp	10.1	0	55.4	60.1	50.1	-	-	-	-
			Margin [dB]:		-4.7	5.3	-	-	-	-
.31962	43.1 qp	10.1	0	53.2	59.7	49.7	-	-	-	-
			Margin [dB]:		-6.5	3.5	-	-	-	-
.36155	41.74 qp	10.1	0	51.84	58.7	48.7	-	-	-	-
			Margin [dB]:		-6.86	3.14	-	-	-	-
.47897	35.27 qp	10.1	0	45.37	56.4	46.4	-	-	-	-
			Margin [dB]:		-11.03	-1.03	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 26 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
.43922	38.04 qp	10.1	0	48.14	57.1	47.1	-	-	-	-
			Margin [dB]:		-8.96	1.04	-	-	-	-
.3995	40.21 qp	10.1	0	50.31	57.9	47.9	-	-	-	-
			Margin [dB]:		-7.59	2.41	-	-	-	-
.49459	34.94 qp	10.1	0	45.04	56.1	46.1	-	-	-	-
			Margin [dB]:		-11.06	-1.06	-	-	-	-
.53387	32.37 qp	10.1	0	42.47	56	46	-	-	-	-
			Margin [dB]:		-13.53	-3.53	-	-	-	-
.5755	30.42 qp	10.1	0	40.52	56	46	-	-	-	-
			Margin [dB]:		-15.48	-5.48	-	-	-	-
.58693	28.3 qp	10.1	0	38.4	56	46	-	-	-	-
			Margin [dB]:		-17.6	-7.6	-	-	-	-
.62493	27.8 qp	10.1	0	37.9	56	46	-	-	-	-
			Margin [dB]:		-18.1	-8.1	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 431 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.17676	26.78 AV	10	0	36.78	64.6	54.6	-	-	-	-
			Margin [dB]:		-27.82	-17.82	-	-	-	-
.21426	27.88 AV	10	0	37.88	63	53	-	-	-	-
			Margin [dB]:		-25.12	-15.12	-	-	-	-
.23634	27.19 AV	10	0	37.19	62.2	52.2	-	-	-	-
			Margin [dB]:		-25.01	-15.01	-	-	-	-
.27678	19.44 AV	10	0	29.44	60.9	50.9	-	-	-	-
			Margin [dB]:		-31.46	-21.46	-	-	-	-
.31581	27.09 AV	10	0	37.09	59.8	49.8	-	-	-	-
			Margin [dB]:		-22.71	-12.71	-	-	-	-
.34518	26.27 AV	10	0	36.27	59.1	49.1	-	-	-	-
			Margin [dB]:		-22.83	-12.83	-	-	-	-
.36803	25.55 AV	10	0	35.55	58.5	48.5	-	-	-	-
			Margin [dB]:		-22.95	-12.95	-	-	-	-
.38288	22.3 AV	10	0	32.3	58.2	48.2	-	-	-	-
			Margin [dB]:		-25.9	-15.9	-	-	-	-
.47351	23 AV	10	0	33	56.5	46.5	-	-	-	-
			Margin [dB]:		-23.5	-13.5	-	-	-	-
.49785	21.92 AV	10	0	31.92	56	46	-	-	-	-
			Margin [dB]:		-24.08	-14.08	-	-	-	-
.53649	20.66 AV	10	0	30.66	56	46	-	-	-	-
			Margin [dB]:		-25.34	-15.34	-	-	-	-
.61475	18.49 AV	10	0	28.49	56	46	-	-	-	-
			Margin [dB]:		-27.51	-17.51	-	-	-	-
.70484	20.8 AV	10	0	30.8	56	46	-	-	-	-
			Margin [dB]:		-25.2	-15.2	-	-	-	-
.76098	21.69 AV	10	0	31.69	56	46	-	-	-	-
			Margin [dB]:		-24.31	-14.31	-	-	-	-
.95933	22.43 AV	10	0	32.43	56	46	-	-	-	-
			Margin [dB]:		-23.57	-13.57	-	-	-	-
Line - L1 1 - 30MHz										
3.36675	25.06 AV	10.1	0	35.16	56	46	-	-	-	-
			Margin [dB]:		-20.84	-10.84	-	-	-	-
4.41716	25.17 AV	10.2	0	35.37	56	46	-	-	-	-
			Margin [dB]:		-20.63	-10.63	-	-	-	-
6.54057	27.94 AV	10.2	0	38.14	60	50	-	-	-	-
			Margin [dB]:		-21.86	-11.86	-	-	-	-
7.41588	26.1 AV	10.3	0	36.4	60	50	-	-	-	-
			Margin [dB]:		-23.6	-13.6	-	-	-	-
Neutral .15 - 1MHz										
.16016	27.67 AV	10.1	0	37.77	65.5	55.5	-	-	-	-
			Margin [dB]:		-27.73	-17.73	-	-	-	-
.19846	24.22 AV	10	0	34.22	63.7	53.7	-	-	-	-
			Margin [dB]:		-29.48	-19.48	-	-	-	-
.26644	28.92 AV	10.1	0	39.02	61.2	51.2	-	-	-	-
			Margin [dB]:		-22.18	-12.18	-	-	-	-
.30535	25.14 AV	10.1	0	35.24	60.1	50.1	-	-	-	-
			Margin [dB]:		-24.86	-14.86	-	-	-	-
.31962	23.5 AV	10.1	0	33.6	59.7	49.7	-	-	-	-
			Margin [dB]:		-26.1	-16.1	-	-	-	-
.36155	23.51 AV	10.1	0	33.61	58.7	48.7	-	-	-	-
			Margin [dB]:		-25.09	-15.09	-	-	-	-
.47897	18.03 AV	10.1	0	28.13	56.4	46.4	-	-	-	-
			Margin [dB]:		-28.27	-18.27	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 28 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
.43922	20.68 AV	10.1	0	30.78	57.1	47.1	-	-	-	-
			Margin [dB]:		-26.32	-16.32	-	-	-	-
.3995	22.83 AV	10.1	0	32.93	57.9	47.9	-	-	-	-
			Margin [dB]:		-24.97	-14.97	-	-	-	-
.49459	17.87 AV	10.1	0	27.97	56.1	46.1	-	-	-	-
			Margin [dB]:		-28.13	-18.13	-	-	-	-
.53387	15.4 AV	10.1	0	25.5	56	46	-	-	-	-
			Margin [dB]:		-30.5	-20.5	-	-	-	-
.5755	14.27 AV	10.1	0	24.37	56	46	-	-	-	-
			Margin [dB]:		-31.63	-21.63	-	-	-	-
.58693	13.24 AV	10.1	0	23.34	56	46	-	-	-	-
			Margin [dB]:		-32.66	-22.66	-	-	-	-
.62493	13.64 AV	10.1	0	23.74	56	46	-	-	-	-
			Margin [dB]:		-32.26	-22.26	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Figure 4 Conducted Emissions Graph

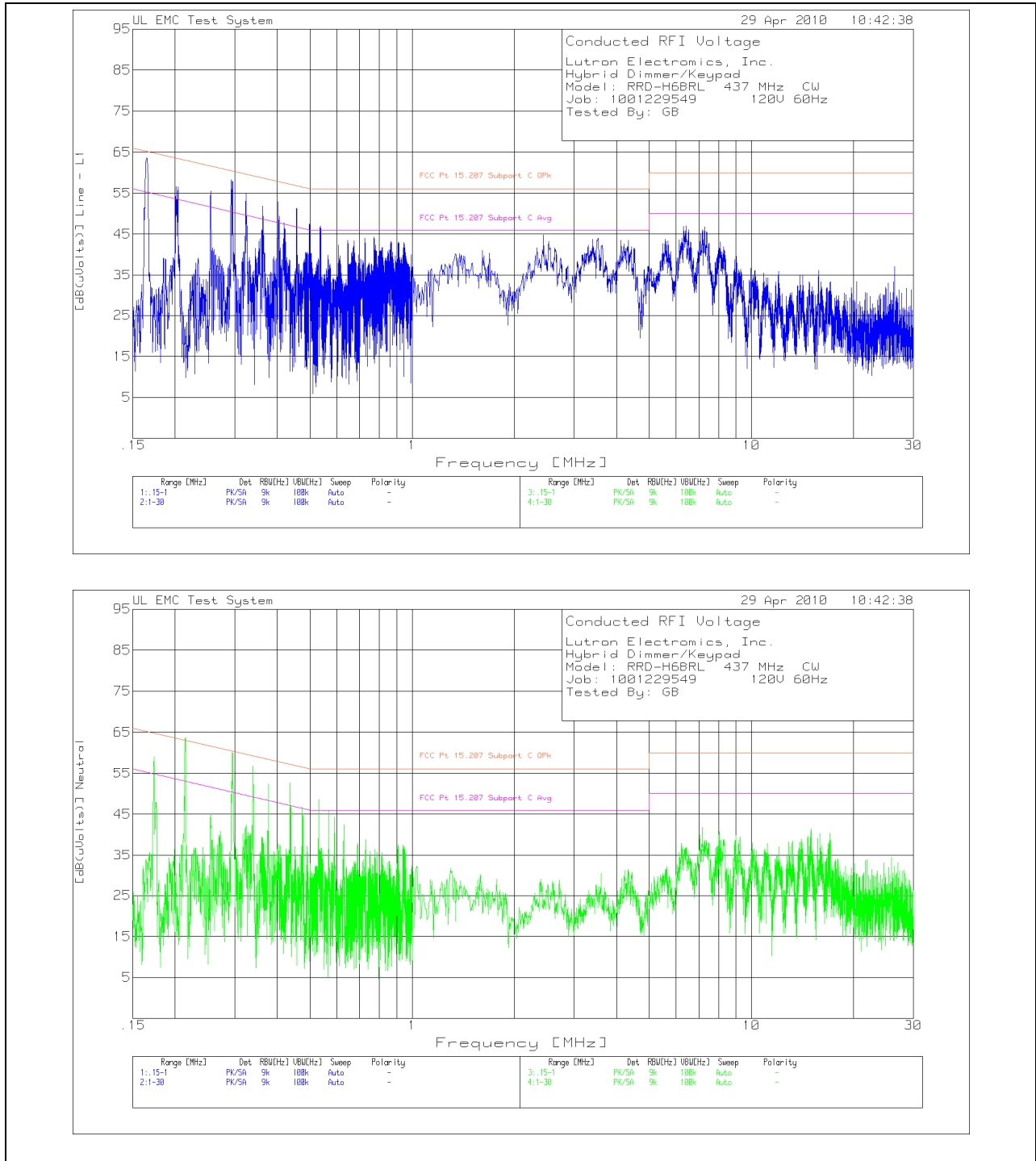


Table 5 Conducted Emissions Data Points

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz											
1	.16513	53.57 pk	10	0	63.57	65.2	55.2	-	-	-	-
				Margin [dB]		-1.63	8.37	-	-	-	-
2	.20118	46.52 pk	10	0	56.52	63.6	53.6	-	-	-	-
				Margin [dB]		-7.08	2.92	-	-	-	-
3	.25508	42.51 pk	10	0	52.51	61.6	51.6	-	-	-	-
				Margin [dB]		-9.09	.91	-	-	-	-
4	.29266	48.22 pk	10	0	58.22	60.4	50.4	-	-	-	-
				Margin [dB]		-2.18	7.82	-	-	-	-
5	.32378	44.84 pk	10	0	54.84	59.6	49.6	-	-	-	-
				Margin [dB]		-4.76	5.24	-	-	-	-
6	.36271	41.8 pk	10	0	51.8	58.7	48.7	-	-	-	-
				Margin [dB]		-6.9	3.1	-	-	-	-
7	.40267	42.83 pk	10	0	52.83	57.8	47.8	-	-	-	-
				Margin [dB]		-4.97	5.03	-	-	-	-
8	.42376	33.1 pk	10	0	43.1	57.4	47.4	-	-	-	-
				Margin [dB]		-14.3	-4.3	-	-	-	-
9	.4564	41.31 pk	10	0	51.31	56.8	46.8	-	-	-	-
				Margin [dB]		-5.49	4.51	-	-	-	-
10	.49772	37.52 pk	10	0	47.52	56	46	-	-	-	-
				Margin [dB]		-8.48	1.52	-	-	-	-
11	.53547	37.03 pk	10	0	47.03	56	46	-	-	-	-
				Margin [dB]		-8.97	1.03	-	-	-	-
12	.60705	32.37 pk	10	0	42.37	56	46	-	-	-	-
				Margin [dB]		-13.63	-3.63	-	-	-	-
13	.64624	33.44 pk	10	0	43.44	56	46	-	-	-	-
				Margin [dB]		-12.56	-2.56	-	-	-	-
14	.6732	33.41 pk	10	0	43.41	56	46	-	-	-	-
				Margin [dB]		-12.59	-2.59	-	-	-	-
15	.72523	34.04 pk	10	0	44.04	56	46	-	-	-	-
				Margin [dB]		-11.96	-1.96	-	-	-	-
16	.77215	34.3 pk	10	0	44.3	56	46	-	-	-	-
				Margin [dB]		-11.7	-1.7	-	-	-	-
17	.78593	30.94 pk	10	0	40.94	56	46	-	-	-	-
				Margin [dB]		-15.06	-5.06	-	-	-	-
18	.81704	31.73 pk	10	0	41.73	56	46	-	-	-	-
				Margin [dB]		-14.27	-4.27	-	-	-	-
19	.86176	32.72 pk	10	0	42.72	56	46	-	-	-	-
				Margin [dB]		-13.28	-3.28	-	-	-	-
20	.91498	32.81 pk	10	0	42.81	56	46	-	-	-	-
				Margin [dB]		-13.19	-3.19	-	-	-	-
21	.94525	32.91 pk	10	0	42.91	56	46	-	-	-	-
				Margin [dB]		-13.09	-3.09	-	-	-	-
22	.99286	29.85 pk	10.1	0	39.95	56	46	-	-	-	-
				Margin [dB]		-16.05	-6.05	-	-	-	-

Line - L1 1 - 30MHz											
23	2.43869	34.7 pk	10.1	0	44.8	56	46	-	-	-	-
				Margin [dB]		-11.2	-1.2	-	-	-	-
24	3.52931	33.97 pk	10.1	0	44.07	56	46	-	-	-	-

				Margin [dB]		-11.93	-1.93	-	-	-	-
25	4.32987	33.26 pk	10.2	0	43.46	56	46	-	-	-	-
				Margin [dB]		-12.54	-2.54	-	-	-	-
26	6.41248	36.86 pk	10.2	0	47.06	60	50	-	-	-	-
				Margin [dB]		-12.94	-2.94	-	-	-	-
27	7.27686	36.46 pk	10.3	0	46.76	60	50	-	-	-	-
				Margin [dB]		-13.24	-3.24	-	-	-	-
Neutral .15 - 1MHz -----											
28	.17347	48.9 pk	10.1	0	59	64.8	54.8	-	-	-	-
				Margin [dB]		-5.8	4.2	-	-	-	-
29	.21444	53.55 pk	10.1	0	63.65	63	53	-	-	-	-
				Margin [dB]		.65	10.65	-	-	-	-
30	.29521	49.96 pk	10.1	0	60.06	60.4	50.4	-	-	-	-
				Margin [dB]		-.34	9.66	-	-	-	-
31	.33993	46.65 pk	10	0	56.65	59.2	49.2	-	-	-	-
				Margin [dB]		-2.55	7.45	-	-	-	-
32	.37734	42.25 pk	10.1	0	52.35	58.3	48.3	-	-	-	-
				Margin [dB]		-5.95	4.05	-	-	-	-
33	.43642	42.55 pk	10.1	0	52.65	57.1	47.1	-	-	-	-
				Margin [dB]		-4.45	5.55	-	-	-	-
34	.47409	36.66 pk	10.1	0	46.76	56.4	46.4	-	-	-	-
				Margin [dB]		-9.64	.36	-	-	-	-
35	.53054	38.53 pk	10.1	0	48.63	56	46	-	-	-	-
				Margin [dB]		-7.37	2.63	-	-	-	-
36	.56811	35.9 pk	10.1	0	46	56	46	-	-	-	-
				Margin [dB]		-10	0	-	-	-	-
37	.58911	34.21 pk	10.1	0	44.31	56	46	-	-	-	-
				Margin [dB]		-11.69	-1.69	-	-	-	-
38	.62899	32.3 pk	10.1	0	42.4	56	46	-	-	-	-
				Margin [dB]		-13.6	-3.6	-	-	-	-

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1 .15 - 1MHz										
.16525	50.86 qp	10	0	60.86	65.2	55.2	-	-	-	-
			Margin [dB]:		-4.34	5.66	-	-	-	-
.20038	48.71 qp	10	0	58.71	63.6	53.6	-	-	-	-
			Margin [dB]:		-4.89	5.11	-	-	-	-
.25583	47.54 qp	10	0	57.54	61.6	51.6	-	-	-	-
			Margin [dB]:		-4.06	5.94	-	-	-	-
.29307	46.73 qp	10	0	56.73	60.4	50.4	-	-	-	-
			Margin [dB]:		-3.67	6.33	-	-	-	-
.32399	45.01 qp	10	0	55.01	59.6	49.6	-	-	-	-
			Margin [dB]:		-4.59	5.41	-	-	-	-
.36211	43.03 qp	10	0	53.03	58.7	48.7	-	-	-	-
			Margin [dB]:		-5.67	4.33	-	-	-	-
.40234	43.93 qp	10	0	53.93	57.8	47.8	-	-	-	-
			Margin [dB]:		-3.87	6.13	-	-	-	-
.42395	39.7 qp	10	0	49.7	57.4	47.4	-	-	-	-
			Margin [dB]:		-7.7	2.3	-	-	-	-
.45626	37.91 qp	10	0	47.91	56.8	46.8	-	-	-	-
			Margin [dB]:		-8.89	1.11	-	-	-	-
.49725	35.54 qp	10	0	45.54	56	46	-	-	-	-
			Margin [dB]:		-10.46	-.46	-	-	-	-
.53583	36.1 qp	10	0	46.1	56	46	-	-	-	-
			Margin [dB]:		-9.9	.1	-	-	-	-
.60647	29.27 qp	10	0	39.27	56	46	-	-	-	-
			Margin [dB]:		-16.73	-6.73	-	-	-	-
.64683	32.11 qp	10	0	42.11	56	46	-	-	-	-
			Margin [dB]:		-13.89	-3.89	-	-	-	-
.67369	32.83 qp	10	0	42.83	56	46	-	-	-	-
			Margin [dB]:		-13.17	-3.17	-	-	-	-
.72536	30.15 qp	10	0	40.15	56	46	-	-	-	-
			Margin [dB]:		-15.85	-5.85	-	-	-	-
.77276	30.69 qp	10	0	40.69	56	46	-	-	-	-
			Margin [dB]:		-15.31	-5.31	-	-	-	-
.78579	32.11 qp	10	0	42.11	56	46	-	-	-	-
			Margin [dB]:		-13.89	-3.89	-	-	-	-
.81677	30.3 qp	10	0	40.3	56	46	-	-	-	-
			Margin [dB]:		-15.7	-5.7	-	-	-	-
.86152	30.67 qp	10	0	40.67	56	46	-	-	-	-
			Margin [dB]:		-15.33	-5.33	-	-	-	-
.91492	31.4 qp	10	0	41.4	56	46	-	-	-	-
			Margin [dB]:		-14.6	-4.6	-	-	-	-
.94524	32.25 qp	10	0	42.25	56	46	-	-	-	-
			Margin [dB]:		-13.75	-3.75	-	-	-	-
.99261	27.6 qp	10.1	0	37.7	56	46	-	-	-	-
			Margin [dB]:		-18.3	-8.3	-	-	-	-

Line - L1 1 - 30MHz										
2.43905	31.12 qp	10.1	0	41.22	56	46	-	-	-	-
			Margin [dB]:		-14.78	-4.78	-	-	-	-
3.52938	31.29 qp	10.1	0	41.39	56	46	-	-	-	-
			Margin [dB]:		-14.61	-4.61	-	-	-	-
4.32927	34.28 qp	10.2	0	44.48	56	46	-	-	-	-
			Margin [dB]:		-11.52	-1.52	-	-	-	-
6.41211	34.43 qp	10.2	0	44.63	60	50	-	-	-	-
			Margin [dB]:		-15.37	-5.37	-	-	-	-

7.27718	33.43	QP	10.3	0	43.73	60	50	-	-	-	-
				Margin [dB]:		-16.27	-6.27	-	-	-	-
Neutral .15 - 1MHz											
.17311	48.87	QP	10.1	0	58.97	64.8	54.8	-	-	-	-
				Margin [dB]:		-5.83	4.17	-	-	-	-
.21456	46.94	QP	10.1	0	57.04	63	53	-	-	-	-
				Margin [dB]:		-5.96	4.04	-	-	-	-
.29521	46.71	QP	10.1	0	56.81	60.4	50.4	-	-	-	-
				Margin [dB]:		-3.59	6.41	-	-	-	-
.34015	42.16	QP	10	0	52.16	59.2	49.2	-	-	-	-
				Margin [dB]:		-7.04	2.96	-	-	-	-
.37707	36.84	QP	10.1	0	46.94	58.3	48.3	-	-	-	-
				Margin [dB]:		-11.36	-1.36	-	-	-	-
.43578	38.77	QP	10.1	0	48.87	57.1	47.1	-	-	-	-
				Margin [dB]:		-8.23	1.77	-	-	-	-
.47402	35.44	QP	10.1	0	45.54	56.4	46.4	-	-	-	-
				Margin [dB]:		-10.86	-.86	-	-	-	-
.53096	35.39	QP	10.1	0	45.49	56	46	-	-	-	-
				Margin [dB]:		-10.51	-.51	-	-	-	-
.56822	31.87	QP	10.1	0	41.97	56	46	-	-	-	-
				Margin [dB]:		-14.03	-4.03	-	-	-	-
.58909	30.13	QP	10.1	0	40.23	56	46	-	-	-	-
				Margin [dB]:		-15.77	-5.77	-	-	-	-
.62891	28.41	QP	10.1	0	38.51	56	46	-	-	-	-
				Margin [dB]:		-17.49	-7.49	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1 .15 - 1MHz										
.16525	31.97 AV	10	0	41.97	65.2	55.2	-	-	-	-
			Margin [dB]:		-23.23	-13.23	-	-	-	-
.20038	29.38 AV	10	0	39.38	63.6	53.6	-	-	-	-
			Margin [dB]:		-24.22	-14.22	-	-	-	-
.25583	26.07 AV	10	0	36.07	61.6	51.6	-	-	-	-
			Margin [dB]:		-25.53	-15.53	-	-	-	-
.29307	28.48 AV	10	0	38.48	60.4	50.4	-	-	-	-
			Margin [dB]:		-21.92	-11.92	-	-	-	-
.32399	27.7 AV	10	0	37.7	59.6	49.6	-	-	-	-
			Margin [dB]:		-21.9	-11.9	-	-	-	-
.36211	27.89 AV	10	0	37.89	58.7	48.7	-	-	-	-
			Margin [dB]:		-20.81	-10.81	-	-	-	-
.40234	28.4 AV	10	0	38.4	57.8	47.8	-	-	-	-
			Margin [dB]:		-19.4	-9.4	-	-	-	-
.42395	24.58 AV	10	0	34.58	57.4	47.4	-	-	-	-
			Margin [dB]:		-22.82	-12.82	-	-	-	-
.45626	24.61 AV	10	0	34.61	56.8	46.8	-	-	-	-
			Margin [dB]:		-22.19	-12.19	-	-	-	-
.49725	22.14 AV	10	0	32.14	56	46	-	-	-	-
			Margin [dB]:		-23.86	-13.86	-	-	-	-
.53583	22.08 AV	10	0	32.08	56	46	-	-	-	-
			Margin [dB]:		-23.92	-13.92	-	-	-	-
.60647	18.07 AV	10	0	28.07	56	46	-	-	-	-
			Margin [dB]:		-27.93	-17.93	-	-	-	-
.64683	20.05 AV	10	0	30.05	56	46	-	-	-	-
			Margin [dB]:		-25.95	-15.95	-	-	-	-
.67369	21.19 AV	10	0	31.19	56	46	-	-	-	-
			Margin [dB]:		-24.81	-14.81	-	-	-	-
.72536	21.03 AV	10	0	31.03	56	46	-	-	-	-
			Margin [dB]:		-24.97	-14.97	-	-	-	-
.77276	22.47 AV	10	0	32.47	56	46	-	-	-	-
			Margin [dB]:		-23.53	-13.53	-	-	-	-
.78579	22.73 AV	10	0	32.73	56	46	-	-	-	-
			Margin [dB]:		-23.27	-13.27	-	-	-	-
.81677	22.96 AV	10	0	32.96	56	46	-	-	-	-
			Margin [dB]:		-23.04	-13.04	-	-	-	-
.86152	22.75 AV	10	0	32.75	56	46	-	-	-	-
			Margin [dB]:		-23.25	-13.25	-	-	-	-
.91492	23.79 AV	10	0	33.79	56	46	-	-	-	-
			Margin [dB]:		-22.21	-12.21	-	-	-	-
.94524	24.77 AV	10	0	34.77	56	46	-	-	-	-
			Margin [dB]:		-21.23	-11.23	-	-	-	-
.99261	20.05 AV	10.1	0	30.15	56	46	-	-	-	-
			Margin [dB]:		-25.85	-15.85	-	-	-	-
Line - L1 1 - 30MHz										
2.43905	25.61 AV	10.1	0	35.71	56	46	-	-	-	-
			Margin [dB]:		-20.29	-10.29	-	-	-	-
3.52938	25.34 AV	10.1	0	35.44	56	46	-	-	-	-
			Margin [dB]:		-20.56	-10.56	-	-	-	-
4.32927	26.31 AV	10.2	0	36.51	56	46	-	-	-	-
			Margin [dB]:		-19.49	-9.49	-	-	-	-
6.41211	27.93 AV	10.2	0	38.13	60	50	-	-	-	-
			Margin [dB]:		-21.87	-11.87	-	-	-	-

7.27718	27.37 AV	10.3	0	37.67	60	50	-	-	-	-
			Margin [dB]:		-22.33	-12.33	-	-	-	-
Neutral .15 - 1MHz										
.17311	26.79 AV	10.1	0	36.89	64.8	54.8	-	-	-	-
			Margin [dB]:		-27.91	-17.91	-	-	-	-
.21456	24.13 AV	10.1	0	34.23	63	53	-	-	-	-
			Margin [dB]:		-28.77	-18.77	-	-	-	-
.29521	28.06 AV	10.1	0	38.16	60.4	50.4	-	-	-	-
			Margin [dB]:		-22.24	-12.24	-	-	-	-
.34015	23.32 AV	10	0	33.32	59.2	49.2	-	-	-	-
			Margin [dB]:		-25.88	-15.88	-	-	-	-
.37707	18.2 AV	10.1	0	28.3	58.3	48.3	-	-	-	-
			Margin [dB]:		-30	-20	-	-	-	-
.43578	21.86 AV	10.1	0	31.96	57.1	47.1	-	-	-	-
			Margin [dB]:		-25.14	-15.14	-	-	-	-
.47402	17.85 AV	10.1	0	27.95	56.4	46.4	-	-	-	-
			Margin [dB]:		-28.45	-18.45	-	-	-	-
.53096	17.45 AV	10.1	0	27.55	56	46	-	-	-	-
			Margin [dB]:		-28.45	-18.45	-	-	-	-
.56822	15.42 AV	10.1	0	25.52	56	46	-	-	-	-
			Margin [dB]:		-30.48	-20.48	-	-	-	-
.58909	14.76 AV	10.1	0	24.86	56	46	-	-	-	-
			Margin [dB]:		-31.14	-21.14	-	-	-	-
.62891	13.47 AV	10.1	0	23.57	56	46	-	-	-	-
			Margin [dB]:		-32.43	-22.43	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15.207 Subpart C QPk
 LIMIT 2: FCC Part 15.207 Subpart C Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Figure 5 Conducted Emissions Graph

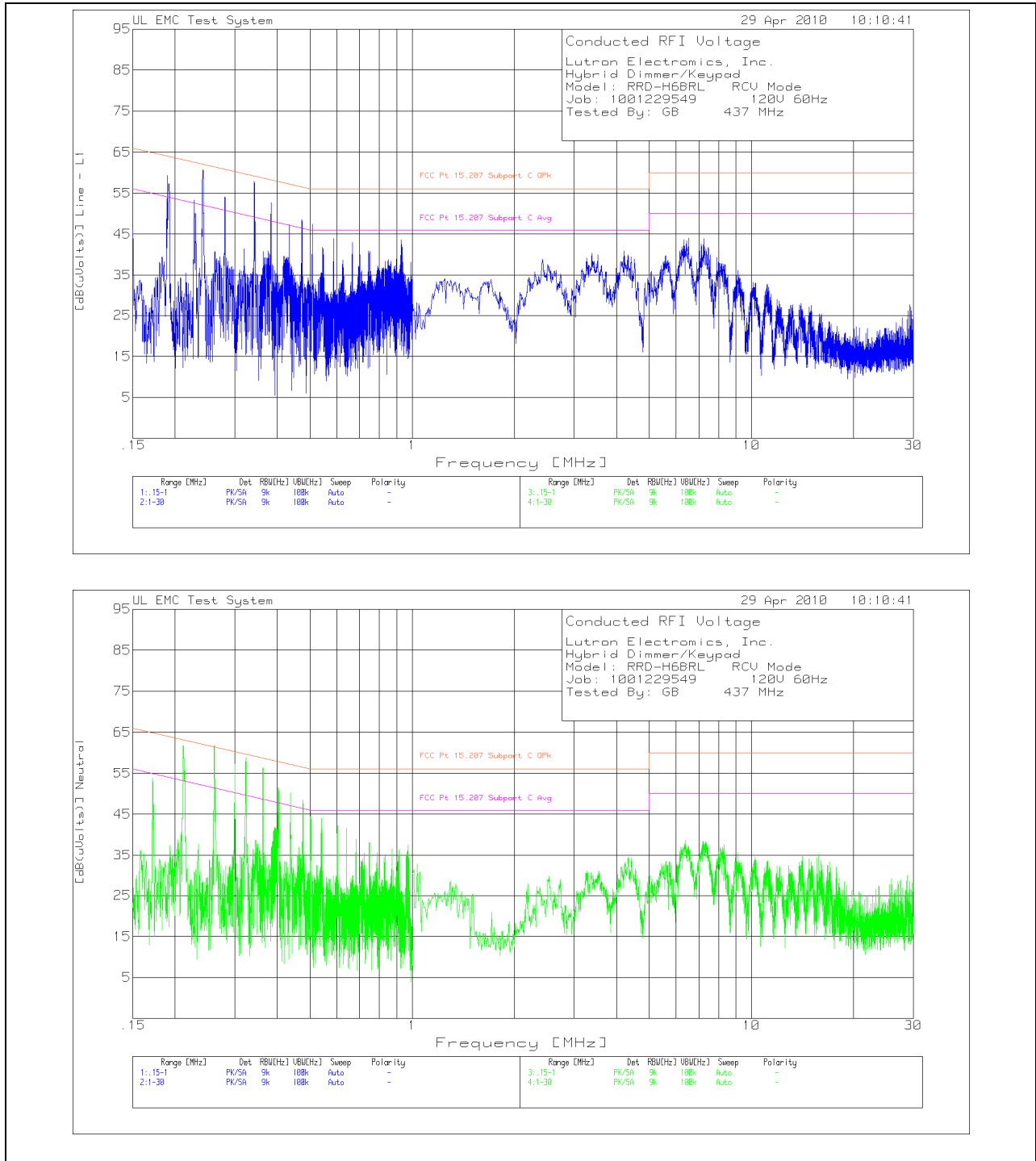


Table 6 Conducted Emissions Data Points

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

No.	Frequency [MHz]	Test Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1	.15	- 1MHz	-----								
1	.18996	49.23 pk	10	0	59.23	64	54	-	-	-	-
				Margin [dB]		-4.77	5.23	-	-	-	-
2	.22771	43.26 pk	10	0	53.26	62.5	52.5	-	-	-	-
				Margin [dB]		-9.24	.76	-	-	-	-
3	.24165	50.75 pk	10	0	60.75	62	52	-	-	-	-
				Margin [dB]		-1.25	8.75	-	-	-	-
4	.28059	44.04 pk	10	0	54.04	60.8	50.8	-	-	-	-
				Margin [dB]		-6.76	3.24	-	-	-	-
5	.34248	47.84 pk	10	0	57.84	59.1	49.1	-	-	-	-
				Margin [dB]		-1.26	8.74	-	-	-	-
6	.3838	42.63 pk	10	0	52.63	58.2	48.2	-	-	-	-
				Margin [dB]		-5.57	4.43	-	-	-	-
7	.43464	37.31 pk	10	0	47.31	57.2	47.2	-	-	-	-
				Margin [dB]		-9.89	.11	-	-	-	-
8	.4729	38.61 pk	10	0	48.61	56.5	46.5	-	-	-	-
				Margin [dB]		-7.89	2.11	-	-	-	-
9	.50809	37.39 pk	10	0	47.39	56	46	-	-	-	-
				Margin [dB]		-8.61	1.39	-	-	-	-
10	.54686	31.4 pk	10	0	41.4	56	46	-	-	-	-
				Margin [dB]		-14.6	-4.6	-	-	-	-
11	.58665	33.93 pk	10	0	43.93	56	46	-	-	-	-
				Margin [dB]		-12.07	-2.07	-	-	-	-
12	.66571	33.03 pk	10	0	43.03	56	46	-	-	-	-
				Margin [dB]		-12.97	-2.97	-	-	-	-
13	.74461	30.89 pk	10	0	40.89	56	46	-	-	-	-
				Margin [dB]		-15.11	-5.11	-	-	-	-
14	.9291	33.62 pk	10	0	43.62	56	46	-	-	-	-
				Margin [dB]		-12.38	-2.38	-	-	-	-

Neutral	.15	- 1MHz	-----								
15	.17176	43.72 pk	10.1	0	53.82	64.9	54.9	-	-	-	-
				Margin [dB]		-11.08	-1.08	-	-	-	-
16	.21138	51.56 pk	10.1	0	61.66	63.2	53.2	-	-	-	-
				Margin [dB]		-1.54	8.46	-	-	-	-
17	.26103	51.66 pk	10.1	0	61.76	61.4	51.4	-	-	-	-
				Margin [dB]		.36	10.36	-	-	-	-
18	.29997	47.08 pk	10.1	0	57.18	60.2	50.2	-	-	-	-
				Margin [dB]		-3.02	6.98	-	-	-	-
19	.32361	48.8 pk	10.1	0	58.9	59.6	49.6	-	-	-	-
				Margin [dB]		-.7	9.3	-	-	-	-
20	.36305	46.25 pk	10.1	0	56.35	58.7	48.7	-	-	-	-
				Margin [dB]		-2.35	7.65	-	-	-	-
21	.4025	41.36 pk	10.1	0	51.46	57.8	47.8	-	-	-	-
				Margin [dB]		-6.34	3.66	-	-	-	-
22	.43685	32.85 pk	10.1	0	42.95	57.1	47.1	-	-	-	-
				Margin [dB]		-14.15	-4.15	-	-	-	-
23	.4763	38.41 pk	10.1	0	48.51	56.4	46.4	-	-	-	-
				Margin [dB]		-7.89	2.11	-	-	-	-
24	.50435	33.68 pk	10.1	0	43.78	56	46	-	-	-	-
				Margin [dB]		-12.22	-2.22	-	-	-	-
25	.54006	33.86 pk	10.1	0	43.96	56	46	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 38 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

				Margin [dB]	-12.04	-2.04	-	-	-	-
26	.60212	32.07 pk	10.1	0	42.17	56	46	-	-	-
				Margin [dB]	-13.83	-3.83	-	-	-	-
27	.64038	31.44 pk	10.1	0	41.54	56	46	-	-	-
				Margin [dB]	-14.46	-4.46	-	-	-	-

LIMIT 1: FCC Part 15 Class B QPk
 LIMIT 2: FCC Part 15 Class B Avg
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Log average detection.

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1	.15 - 1MHz									
.18925	47.94 qp	10	0	57.94	64.1	54.1	-	-	-	-
			Margin [dB]:		-6.16	3.84	-	-	-	-
.22715	48.38 qp	10	0	58.38	62.6	52.6	-	-	-	-
			Margin [dB]:		-4.22	5.78	-	-	-	-
.24138	47.16 qp	10	0	57.16	62	52	-	-	-	-
			Margin [dB]:		-4.84	5.16	-	-	-	-
.28103	41.87 qp	10	0	51.87	60.8	50.8	-	-	-	-
			Margin [dB]:		-8.93	1.07	-	-	-	-
.34287	42.55 qp	10	0	52.55	59.1	49.1	-	-	-	-
			Margin [dB]:		-6.55	3.45	-	-	-	-
.38421	37.52 qp	10	0	47.52	58.2	48.2	-	-	-	-
			Margin [dB]:		-10.68	-.68	-	-	-	-
.43462	38.92 qp	10	0	48.92	57.2	47.2	-	-	-	-
			Margin [dB]:		-8.28	1.72	-	-	-	-
.47233	35.12 qp	10	0	45.12	56.5	46.5	-	-	-	-
			Margin [dB]:		-11.38	-1.38	-	-	-	-
.50761	32.23 qp	10	0	42.23	56	46	-	-	-	-
			Margin [dB]:		-13.77	-3.77	-	-	-	-
.54638	30.69 qp	10	0	40.69	56	46	-	-	-	-
			Margin [dB]:		-15.31	-5.31	-	-	-	-
.58619	28.97 qp	10	0	38.97	56	46	-	-	-	-
			Margin [dB]:		-17.03	-7.03	-	-	-	-
.666	28.33 qp	10	0	38.33	56	46	-	-	-	-
			Margin [dB]:		-17.67	-7.67	-	-	-	-
.74495	29.38 qp	10	0	39.38	56	46	-	-	-	-
			Margin [dB]:		-16.62	-6.62	-	-	-	-
.92939	28.7 qp	10	0	38.7	56	46	-	-	-	-
			Margin [dB]:		-17.3	-7.3	-	-	-	-
Neutral	.15 - 1MHz									
.17226	49.97 qp	10.1	0	60.07	64.9	54.9	-	-	-	-
			Margin [dB]:		-4.83	5.17	-	-	-	-
.21123	48.45 qp	10.1	0	58.55	63.2	53.2	-	-	-	-
			Margin [dB]:		-4.65	5.35	-	-	-	-
.2617	49.25 qp	10.1	0	59.35	61.4	51.4	-	-	-	-
			Margin [dB]:		-2.05	7.95	-	-	-	-
.29999	44.21 qp	10.1	0	54.31	60.2	50.2	-	-	-	-
			Margin [dB]:		-5.89	4.11	-	-	-	-
.32307	42.69 qp	10.1	0	52.79	59.6	49.6	-	-	-	-
			Margin [dB]:		-6.81	3.19	-	-	-	-
.36312	42.03 qp	10.1	0	52.13	58.7	48.7	-	-	-	-
			Margin [dB]:		-6.57	3.43	-	-	-	-
.40168	40.45 qp	10.1	0	50.55	57.8	47.8	-	-	-	-
			Margin [dB]:		-7.25	2.75	-	-	-	-
.43664	37.71 qp	10.1	0	47.81	57.1	47.1	-	-	-	-
			Margin [dB]:		-9.29	.71	-	-	-	-
.47685	35.58 qp	10.1	0	45.68	56.4	46.4	-	-	-	-
			Margin [dB]:		-10.72	-.72	-	-	-	-
.50414	32.01 qp	10.1	0	42.11	56	46	-	-	-	-
			Margin [dB]:		-13.89	-3.89	-	-	-	-
.53994	32.47 qp	10.1	0	42.57	56	46	-	-	-	-
			Margin [dB]:		-13.43	-3.43	-	-	-	-
.60202	28.11 qp	10.1	0	38.21	56	46	-	-	-	-
			Margin [dB]:		-17.79	-7.79	-	-	-	-
.64022	25.8 qp	10.1	0	35.9	56	46	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 40 of 89
Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
Client Name: LUTRON ELECTRONICS INC

Margin [dB]: -20.1 -10.1 - - - -

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
QP - Quasi-Peak detector
av - Linear average detector
avlg - average log detection
AV - average detection
CAV - CISPR average detection
RMS - RMS detection
CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg
LIMIT 3: NONE
LIMIT 4: NONE
LIMIT 5: NONE
LIMIT 6: NONE

Job Number: 1001229549 File Number: MC15832 Page 41 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electromics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1	.15 - 1MHz									
.18925	26.55 AV	10	0	36.55	64.1	54.1	-	-	-	-
			Margin [dB]:		-27.55	-17.55	-	-	-	-
.22715	22.81 AV	10	0	32.81	62.6	52.6	-	-	-	-
			Margin [dB]:		-29.79	-19.79	-	-	-	-
.24138	27.67 AV	10	0	37.67	62	52	-	-	-	-
			Margin [dB]:		-24.33	-14.33	-	-	-	-
.28103	21.73 AV	10	0	31.73	60.8	50.8	-	-	-	-
			Margin [dB]:		-29.07	-19.07	-	-	-	-
.34287	25.66 AV	10	0	35.66	59.1	49.1	-	-	-	-
			Margin [dB]:		-23.44	-13.44	-	-	-	-
.38421	21.57 AV	10	0	31.57	58.2	48.2	-	-	-	-
			Margin [dB]:		-26.63	-16.63	-	-	-	-
.43462	23.73 AV	10	0	33.73	57.2	47.2	-	-	-	-
			Margin [dB]:		-23.47	-13.47	-	-	-	-
.47233	22.76 AV	10	0	32.76	56.5	46.5	-	-	-	-
			Margin [dB]:		-23.74	-13.74	-	-	-	-
.50761	18.75 AV	10	0	28.75	56	46	-	-	-	-
			Margin [dB]:		-27.25	-17.25	-	-	-	-
.54638	18.67 AV	10	0	28.67	56	46	-	-	-	-
			Margin [dB]:		-27.33	-17.33	-	-	-	-
.58619	17.27 AV	10	0	27.27	56	46	-	-	-	-
			Margin [dB]:		-28.73	-18.73	-	-	-	-
.666	17.5 AV	10	0	27.5	56	46	-	-	-	-
			Margin [dB]:		-28.5	-18.5	-	-	-	-
.74495	21.28 AV	10	0	31.28	56	46	-	-	-	-
			Margin [dB]:		-24.72	-14.72	-	-	-	-
.92939	21.93 AV	10	0	31.93	56	46	-	-	-	-
			Margin [dB]:		-24.07	-14.07	-	-	-	-
Neutral	.15 - 1MHz									
.17226	26.74 AV	10.1	0	36.84	64.9	54.9	-	-	-	-
			Margin [dB]:		-28.06	-18.06	-	-	-	-
.21123	27.85 AV	10.1	0	37.95	63.2	53.2	-	-	-	-
			Margin [dB]:		-25.25	-15.25	-	-	-	-
.2617	29.22 AV	10.1	0	39.32	61.4	51.4	-	-	-	-
			Margin [dB]:		-22.08	-12.08	-	-	-	-
.29999	24.11 AV	10.1	0	34.21	60.2	50.2	-	-	-	-
			Margin [dB]:		-25.99	-15.99	-	-	-	-
.32307	22.96 AV	10.1	0	33.06	59.6	49.6	-	-	-	-
			Margin [dB]:		-26.54	-16.54	-	-	-	-
.36312	23.52 AV	10.1	0	33.62	58.7	48.7	-	-	-	-
			Margin [dB]:		-25.08	-15.08	-	-	-	-
.40168	22.93 AV	10.1	0	33.03	57.8	47.8	-	-	-	-
			Margin [dB]:		-24.77	-14.77	-	-	-	-
.43664	20.52 AV	10.1	0	30.62	57.1	47.1	-	-	-	-
			Margin [dB]:		-26.48	-16.48	-	-	-	-
.47685	17.91 AV	10.1	0	28.01	56.4	46.4	-	-	-	-
			Margin [dB]:		-28.39	-18.39	-	-	-	-
.50414	15.2 AV	10.1	0	25.3	56	46	-	-	-	-
			Margin [dB]:		-30.7	-20.7	-	-	-	-
.53994	16.43 AV	10.1	0	26.53	56	46	-	-	-	-
			Margin [dB]:		-29.47	-19.47	-	-	-	-
.60202	13 AV	10.1	0	23.1	56	46	-	-	-	-
			Margin [dB]:		-32.9	-22.9	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 42 of 89
Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
Client Name: LUTRON ELECTRONICS INC

.64022	11.31	AV	10.1	0	21.41	56	46	-	-	-	-
				Margin [dB]:		-34.59	-24.59	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
QP - Quasi-Peak detector
av - Linear average detector
avlg - average log detection
AV - average detection
CAV - CISPR average detection
RMS - RMS detection
CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg
LIMIT 3: NONE
LIMIT 4: NONE
LIMIT 5: NONE
LIMIT 6: NONE

4.2 Test Conditions and Results – Occupied Bandwidth

Test Description	Measurements were made in the laboratory environment. A Dipole antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The device was operated and the spectrum analyzer resolution bandwidth set per the appropriate standard.		
Basic Standard	FCC Part 15, Subpart C, 15.231, RSS-GEN, RSS-210		
Occupied Bandwidth Limits			
0.25% of the Fundamental Frequency			

Table 7 Occupied Bandwidth Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1,2
Supplementary information: None		

Table 8 Occupied Bandwidth Spectrum Analyzer Settings

Span (MHz)	Resolution Bandwidth (MHz)	Occupied Bandwidth Requirements	
		dBc	%
2.5	0.01	-20	99
Supplementary information: Span shall be wide enough to capture all products of the modulation process.			

Table 9 Occupied Bandwidth Test Results

Frequency (MHz)	20dB OBW (MHz)	99% OBW (MHz)	Limit (MHz)	Result
431	0.160	0.150	1.08	Pass
437	0.160	0.155	1.09	Pass

Table 10 Occupied Bandwidth Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	87V	44547

Figure 6 Test Setup for Occupied Bandwidth

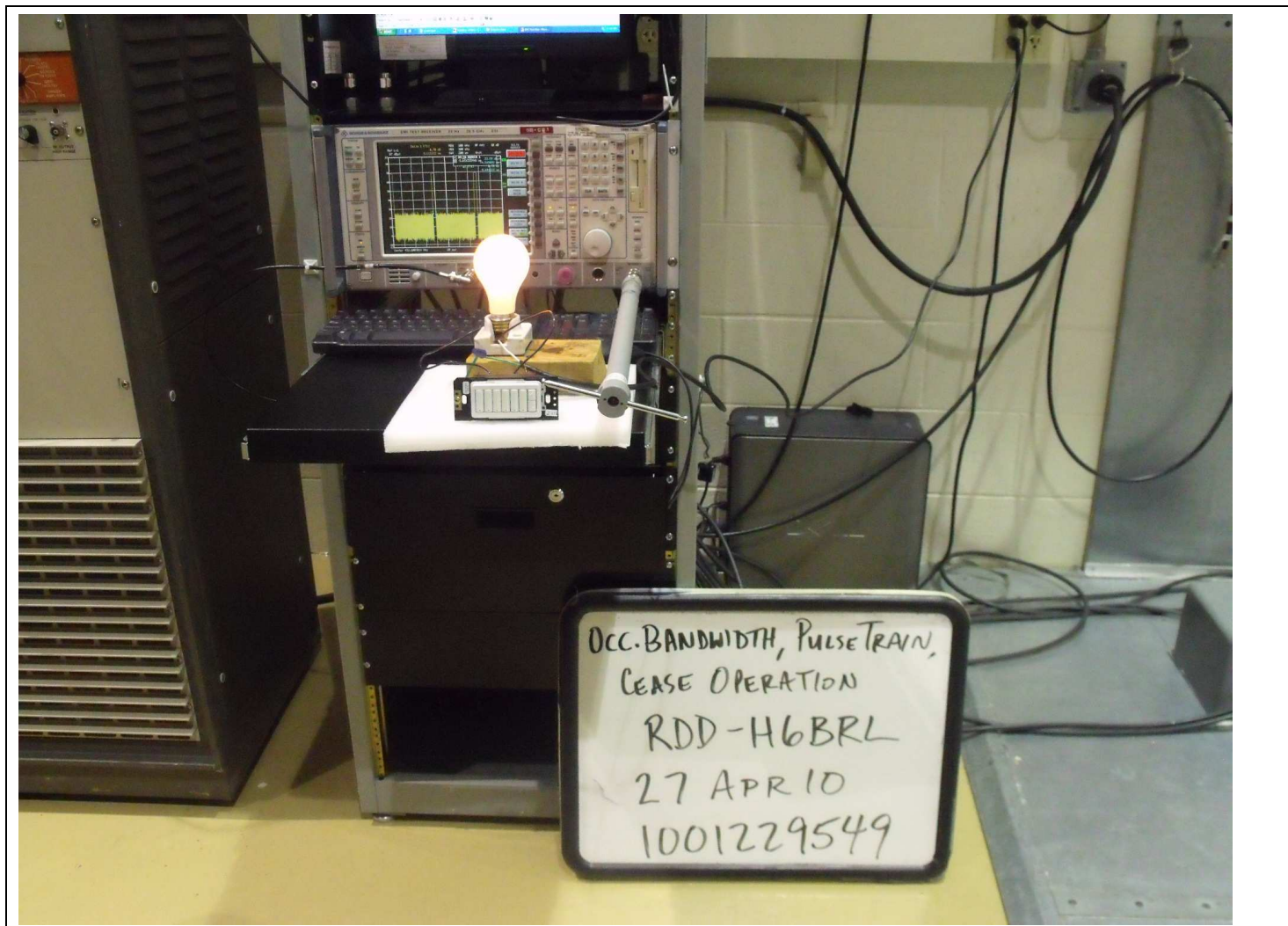


Figure 7 20dB Occupied Bandwidth Graph

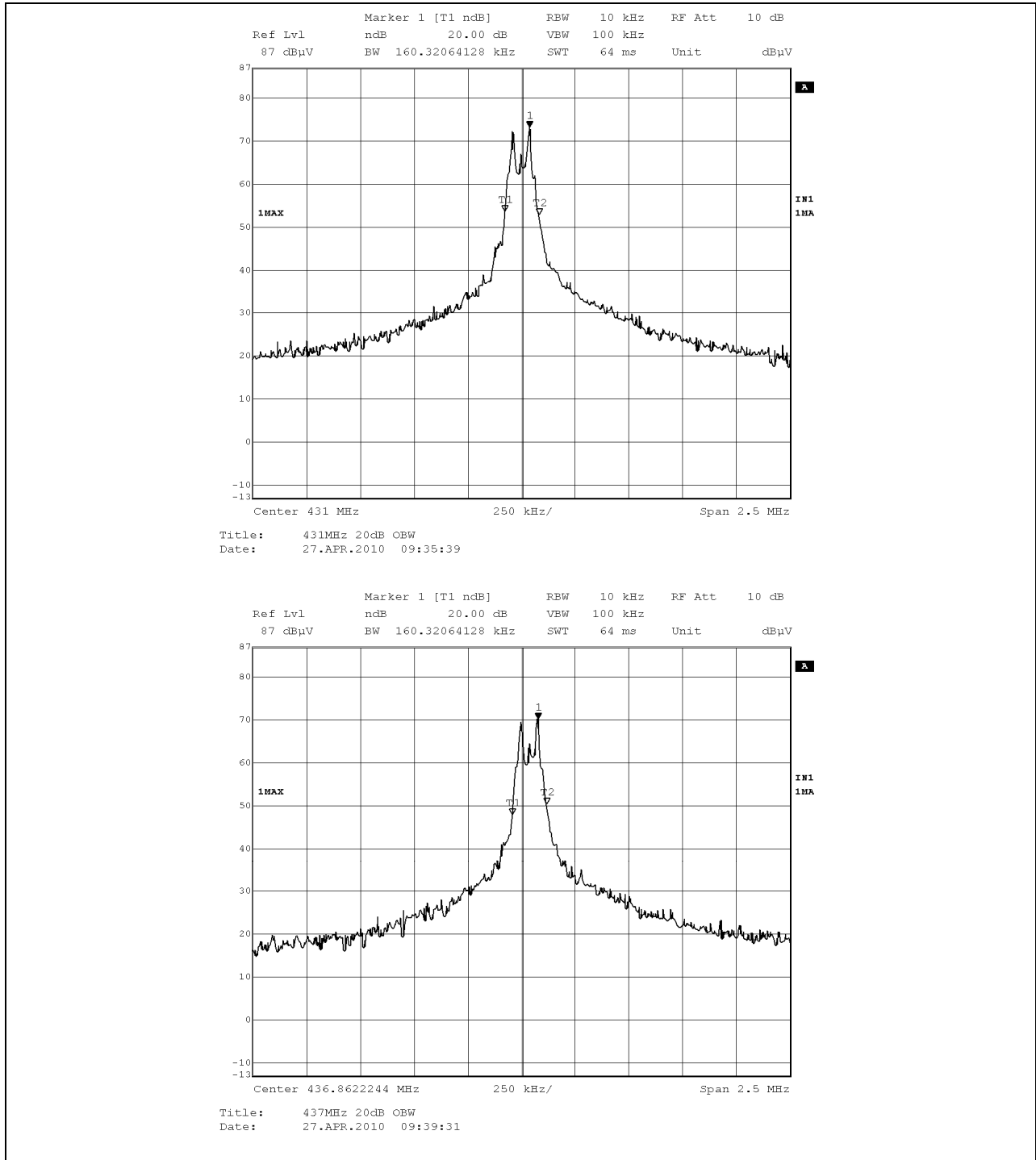
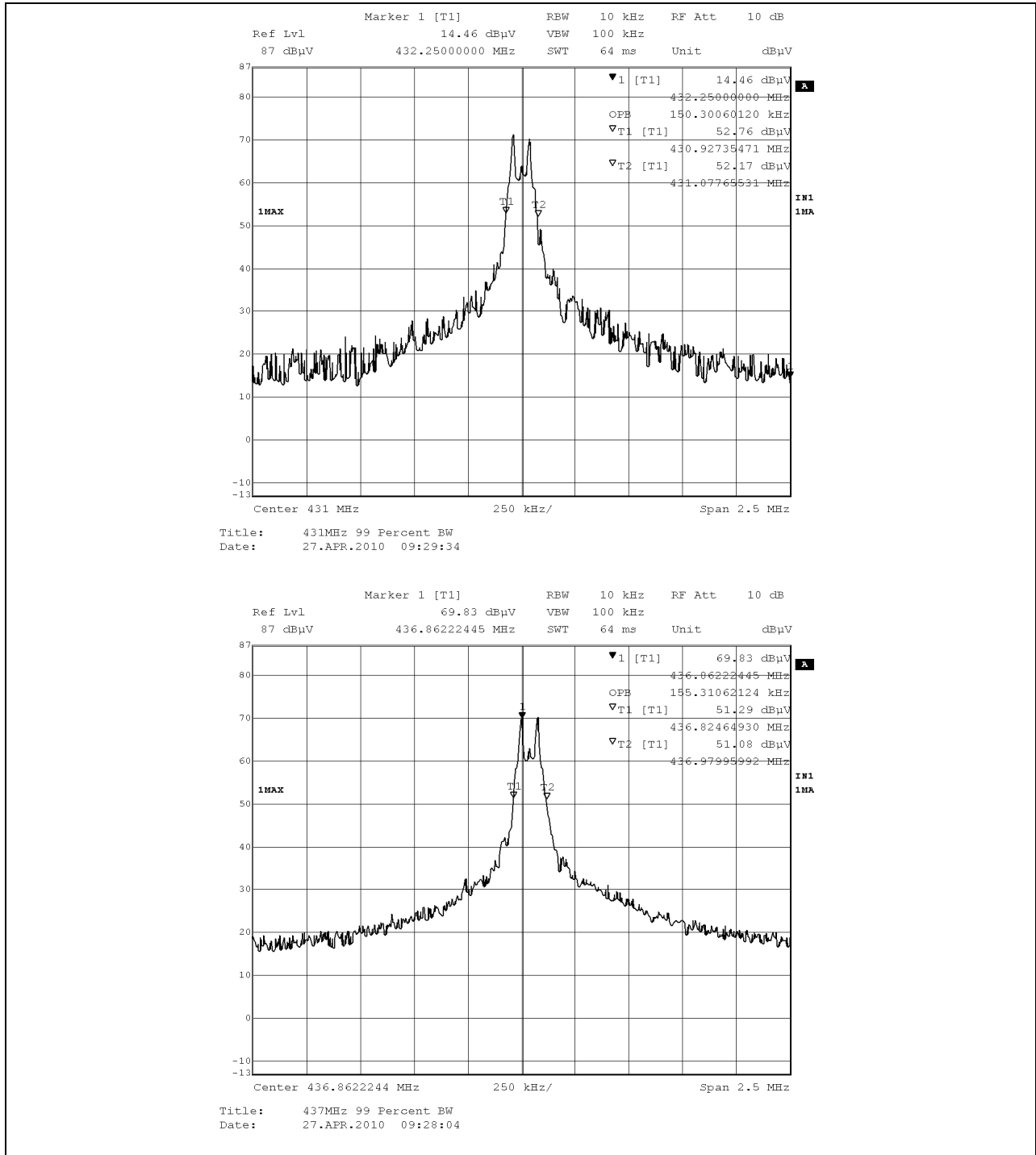


Figure 8 99% Occupied Bandwidth Graph



4.3 Test Conditions and Results – Cease Operation

Test Description	Measurements were made in the laboratory environment. A Dipole antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The device was operated and the transmission time measured with the spectrum analyzer set to zero span at the fundamental frequency.
Basic Standard	FCC Part 15, Subpart C, 15.231, RSS-GEN, RSS-210
Cease Operation Limits	
The transmissions shall stop within 5 seconds of either a button being released or if automatically controlled transmissions shall be stopped 5 seconds after transmissions begin.	

Table 11 Cease Operation Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
Supplementary information: None		

Table 12 Cease Operation Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	87V	44547

Figure 9 Test Setup for Cease Operation

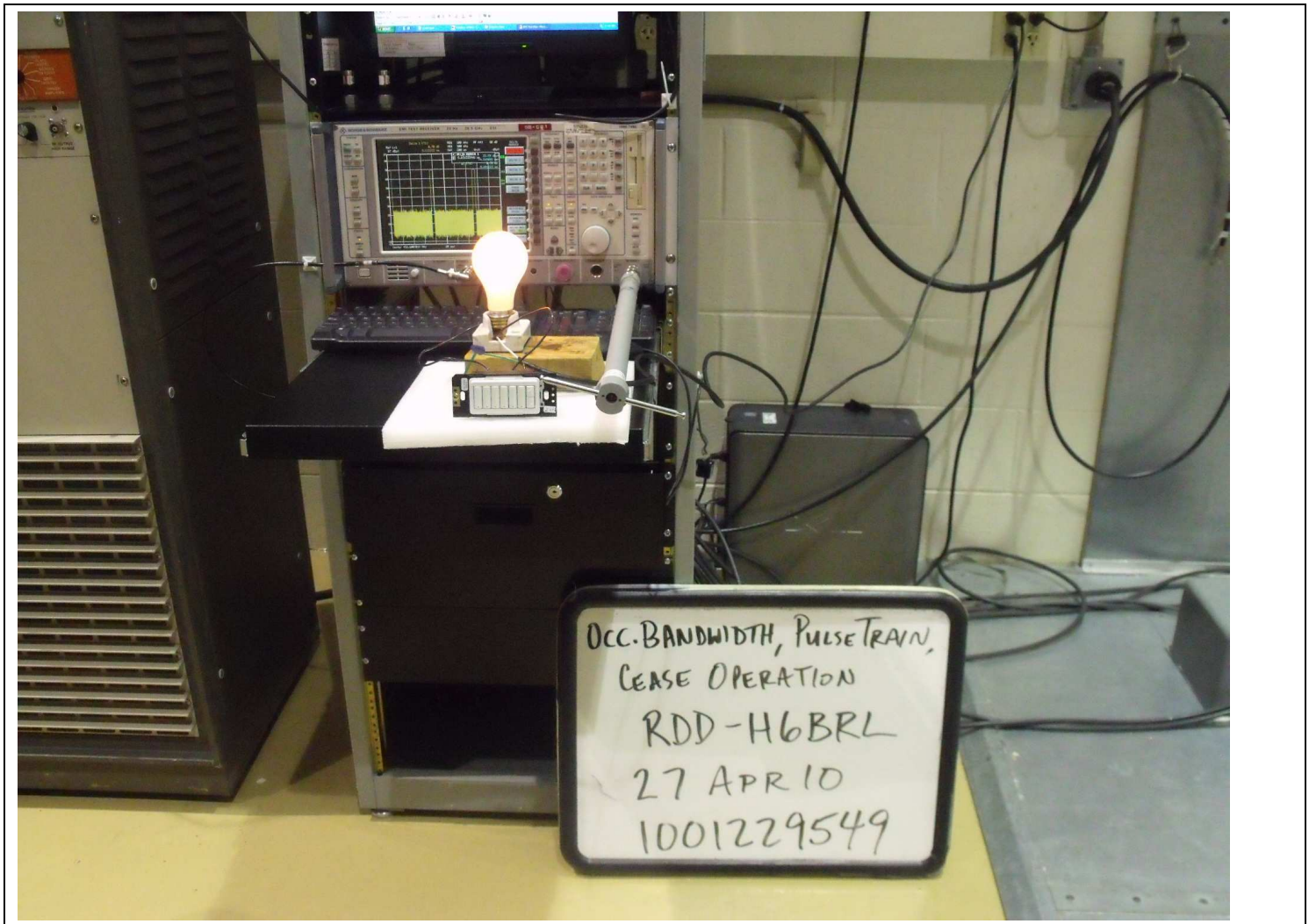
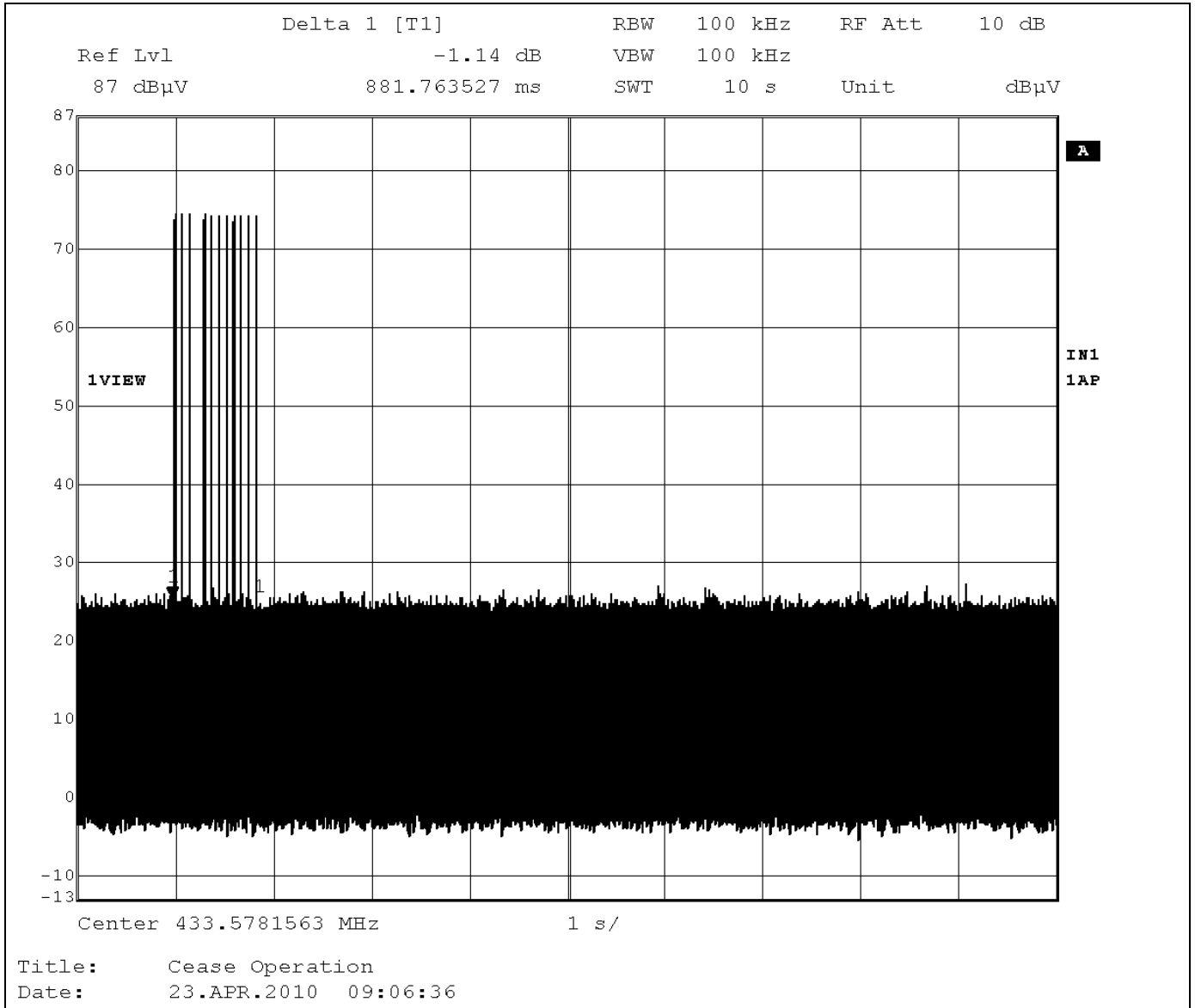


Figure 10 Cease Operation Graph



4.4 Test Conditions and Results – Pulse Train

Test Description	Measurements were made in the laboratory environment. A Dipole antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The pulse train was measured with the spectrum analyzer set to zero span at the fundamental frequency.
Basic Standard	FCC Part 15 Subpart A, 15.35
Pulse Train Limits	
There are no limits for this test. This data is used to calculate the averaging correction factor that is applied to the measured peak radiated emissions results.	

Table 13 Pulse Train Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
Supplementary information: None		

Table 14 Pulse Train Calculation

Pulse Width (ms)	Total Transmission time or 100ms which ever is lesser	Average Correction Factor (dB) $20 \log \left(\frac{PulseWidth}{TotalTransmissionTime} \right)$
10.82	100	-19.32

Number of Pulses in a 100 ms window = 2
 Width of 1st pulse = 5.21 ms
 Width of 2nd pulse = 5.61 ms
 Total duration of pulses (pulse width) = 10.82 ms

Table 15 Pulse Train Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	87V	44547

Figure 11 Test Setup for Pulse Train

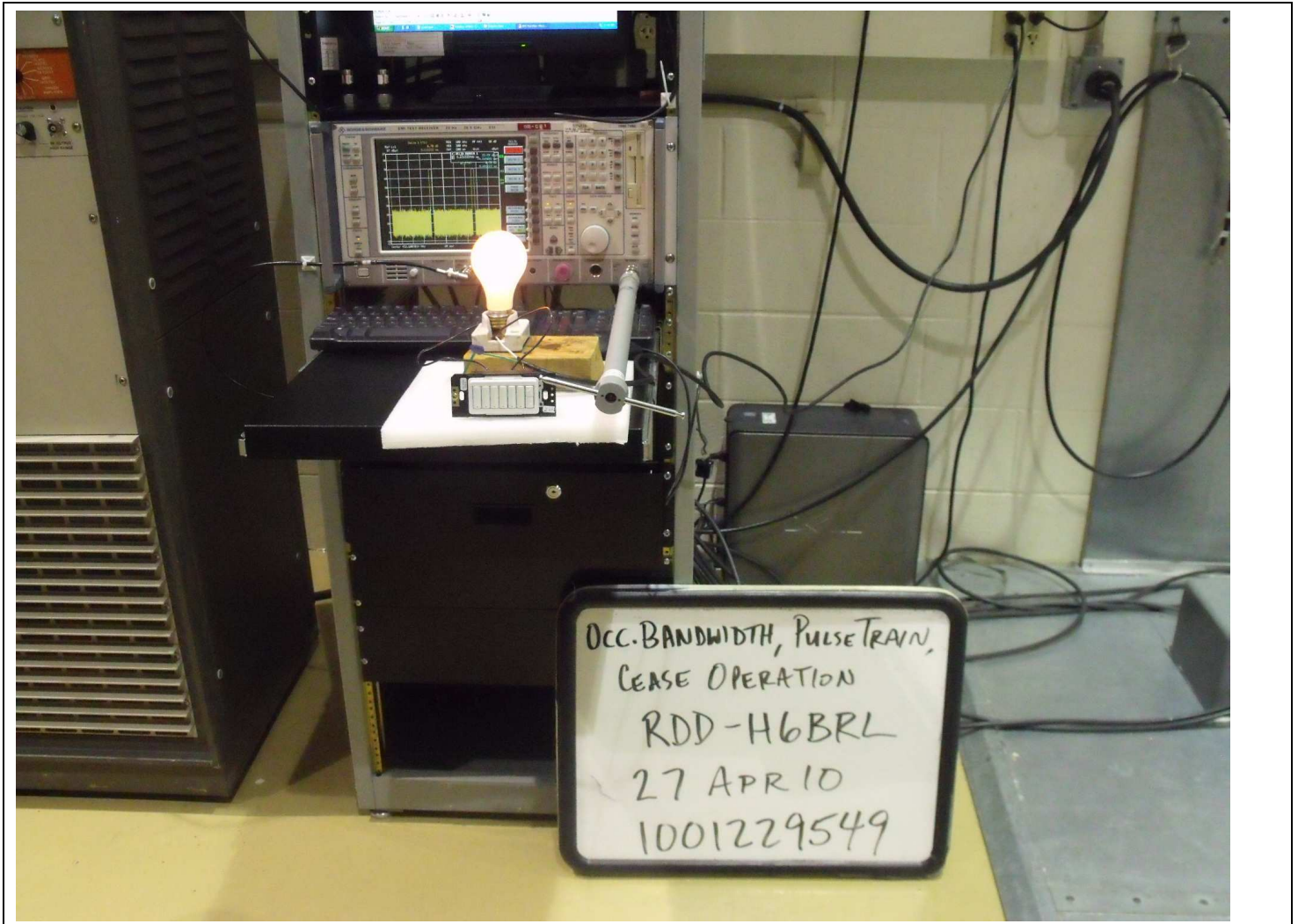
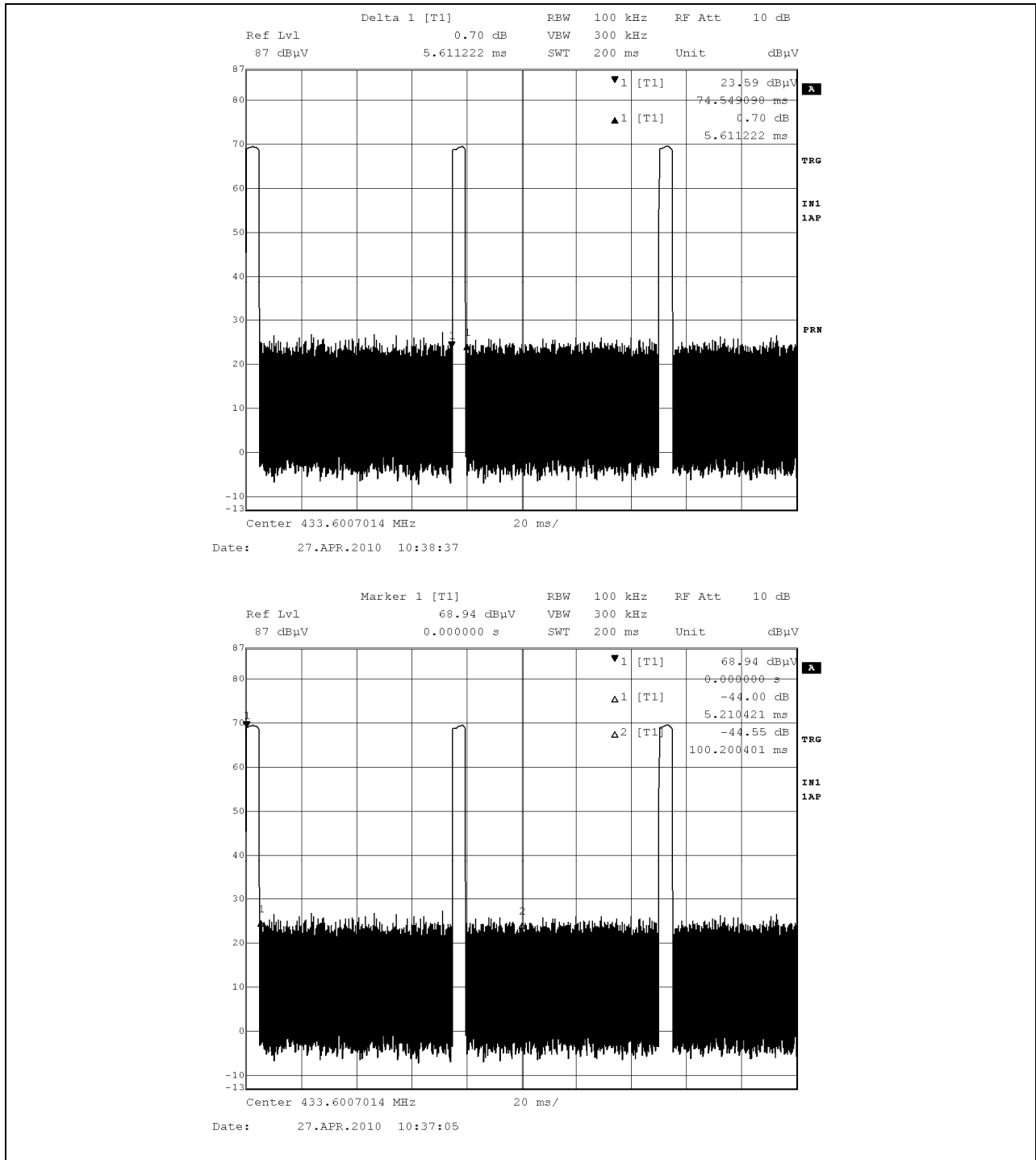


Figure 12 Pulse Train Graph



4.5 Test Conditions and Results – Radiated Emissions – Transmit Mode

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.		
Basic Standard	FCC Part 15, Subpart C, 15.209 & 15.231, RSS-GEN, RSS-210		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	9kHz – 5GHz	(3 meter measurement distance)	
Limits			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious
0.009 – 0.490	128.5 – 93.8	-	-
0.490 – 1.705	73.8 – 63	-	-
1.705 – 30	69.5	-	-
30 – 88	40	-	-
88 – 216	43.5	-	-
216-960	46	-	-
960-1000	54	-	-
1000-5000	-	-	54
431	-	80.7	-
437	-	80.9	-
Harmonics of 431MHz	-	-	60.7
Harmonics of 437MHz	-	-	60.9
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			
For the range 9kHz to 30MHz, only one channel is tested (431MHz) since the transmitter does not operate in that range.			

Table 16 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1,2
Supplementary information: All orientations were investigated and the worse case orientation is reported.		

Table 17 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
9kHz-30MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Active Loop Antenna	EMCO	6507	ME5A-288
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-305
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Log-P Antenna	Schaffner	UPA6109	44068
Bicon Antenna	Schaffner	VBA6106A	54
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-305
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Horn Antenna (2-4 GHz)	ETS	3161-02	48107
Horn Antenna (4-8 GHz)	ETS	3161-03	48106
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251
RF Switch / Preamp Fixture	UL	BOMS1	50249

Test Equipment Used			
Description	Manufacturer	Model	Identifier
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-305

Figure 13 Test setup for Radiated Emissions

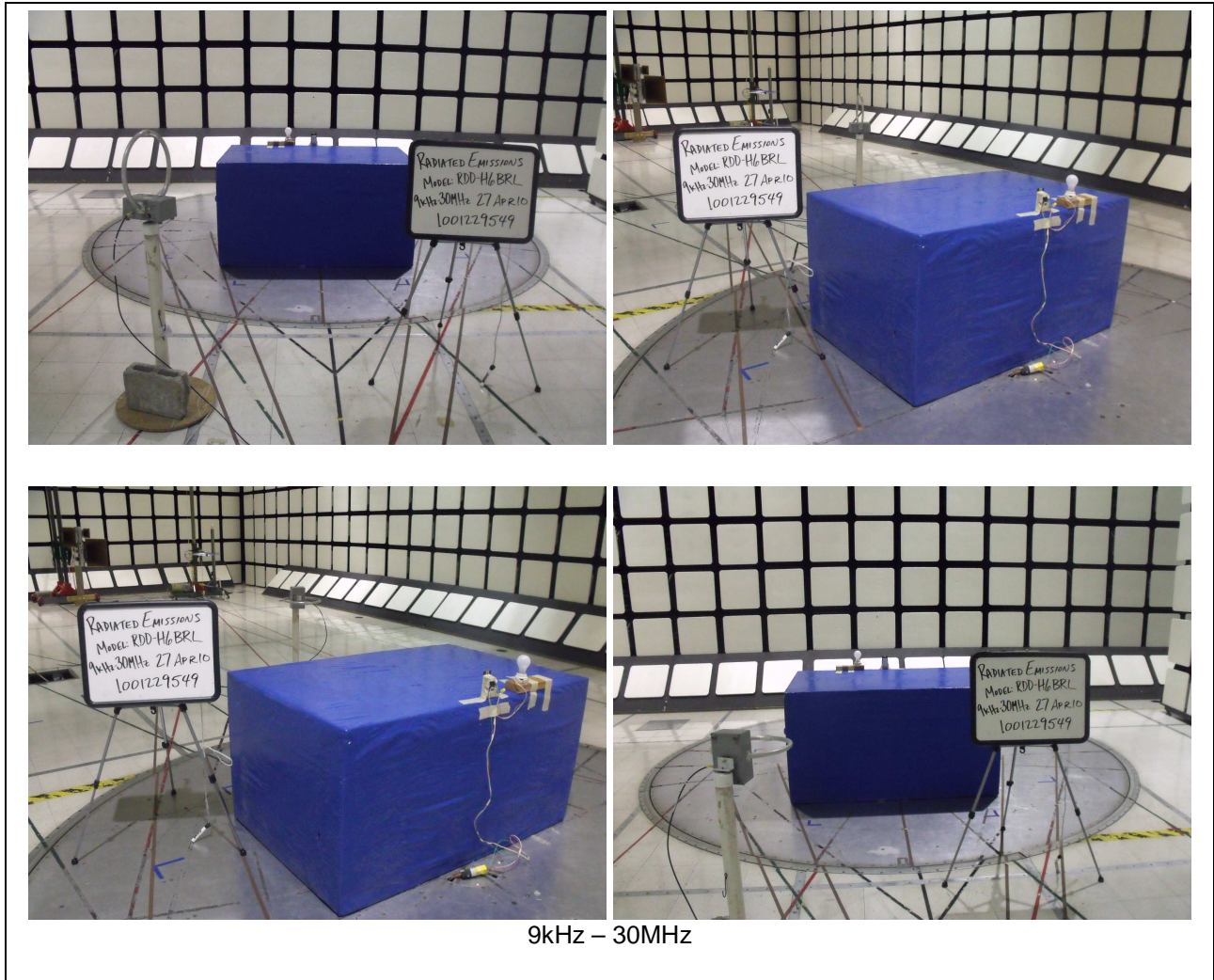


Figure 14 Test setup for Radiated Emissions

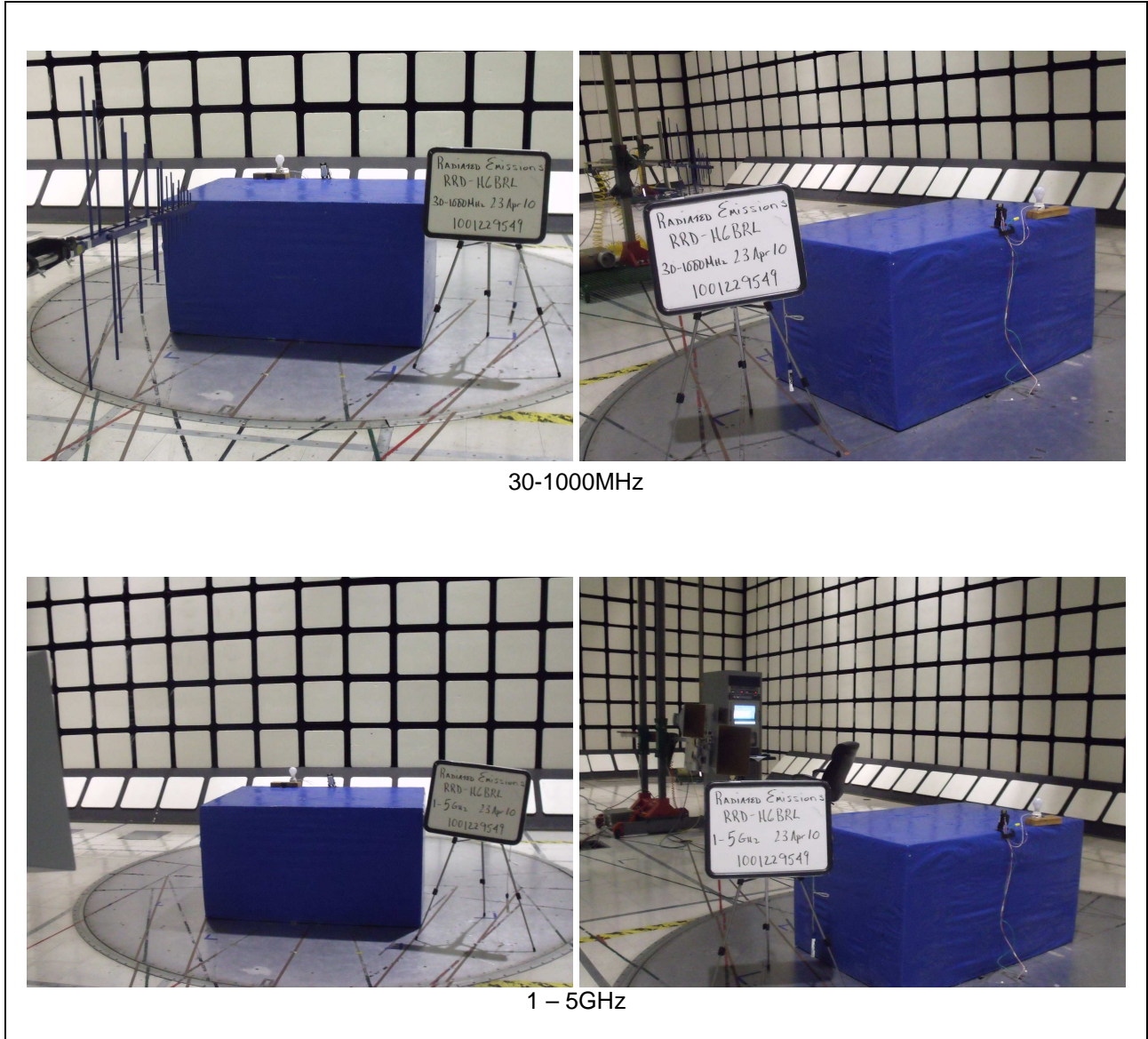


Figure 15 Radiated Emissions Graph

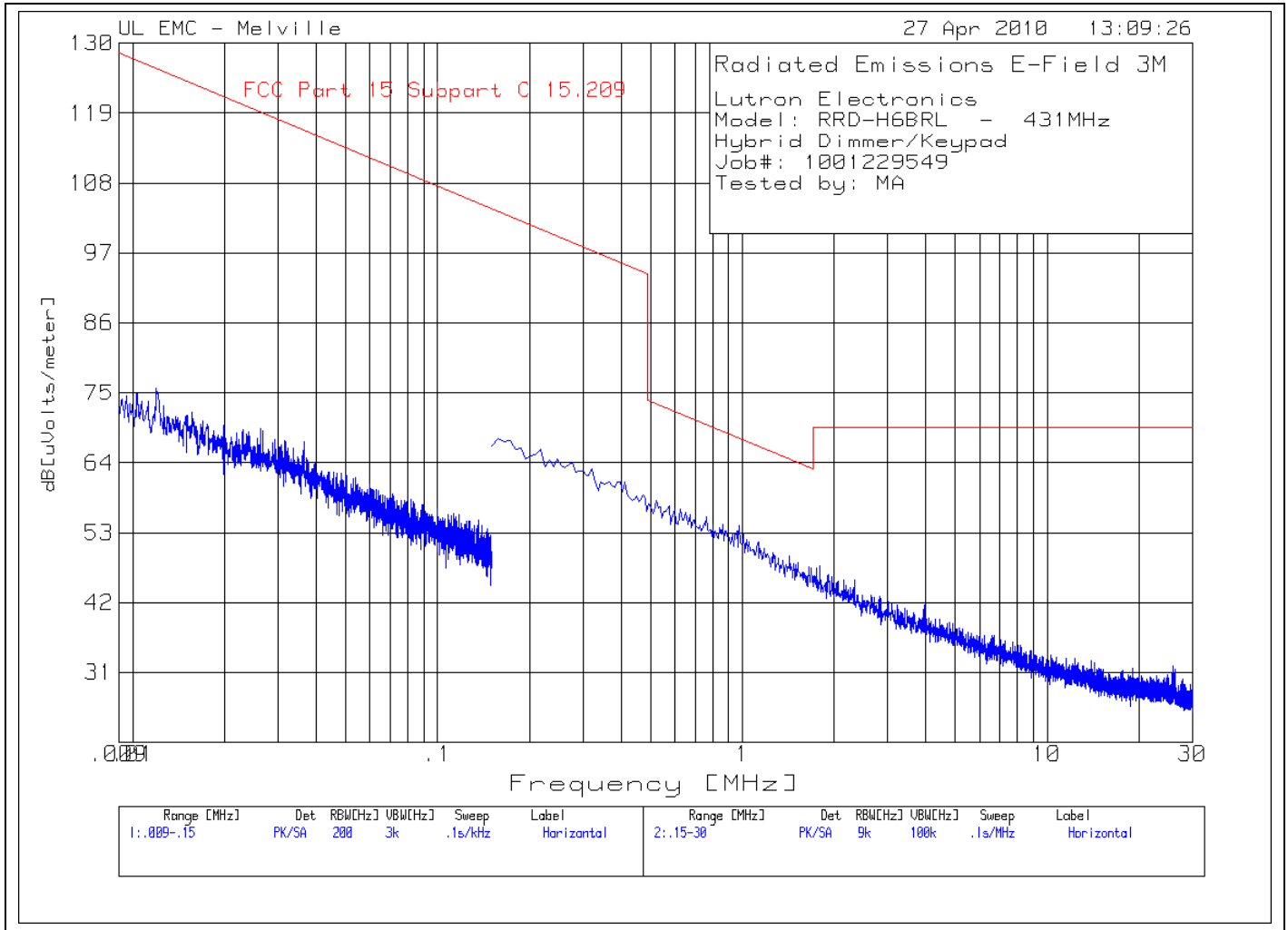


Table 18 Radiated Emissions Data Points

Lutron Electronics
 Model: RRD-H6BRL - 431MHz
 Hybrid Dimmer/Keypad
 Job#: 1001229549
 Tested by: MA

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal .009 - .15MHz -----											
1	.01193	46.02 pk	0	29.7	75.72	126.1	-	-	-	-	-
	Azimuth:207			Margin [dB]		-50.38	-	-	-	-	-
2	.03642	45.74 pk	0	21.6	67.34	116.4	-	-	-	-	-
	Azimuth:70			Margin [dB]		-49.06	-	-	-	-	-

Horizontal .15 - 30MHz -----											
3	.47097	42.31 pk	0	16.7	59.01	94.1	-	-	-	-	-
	Azimuth:231			Margin [dB]		-35.09	-	-	-	-	-
4	.85912	37.37 pk	.1	16.8	54.27	68.9	-	-	-	-	-
	Azimuth:52			Margin [dB]		-14.63	-	-	-	-	-
5	3.9419	24.57 pk	.1	17	41.67	69.5	-	-	-	-	-
	Azimuth:46			Margin [dB]		-27.83	-	-	-	-	-
6	25.72292	12.86 pk	.3	17.8	30.96	69.5	-	-	-	-	-
	Azimuth:176			Margin [dB]		-38.54	-	-	-	-	-
7	13.95908	15.01 pk	.2	17.6	32.81	69.5	-	-	-	-	-
	Azimuth:108			Margin [dB]		-36.69	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Log average detection.

Figure 16 Radiated Emissions Graph

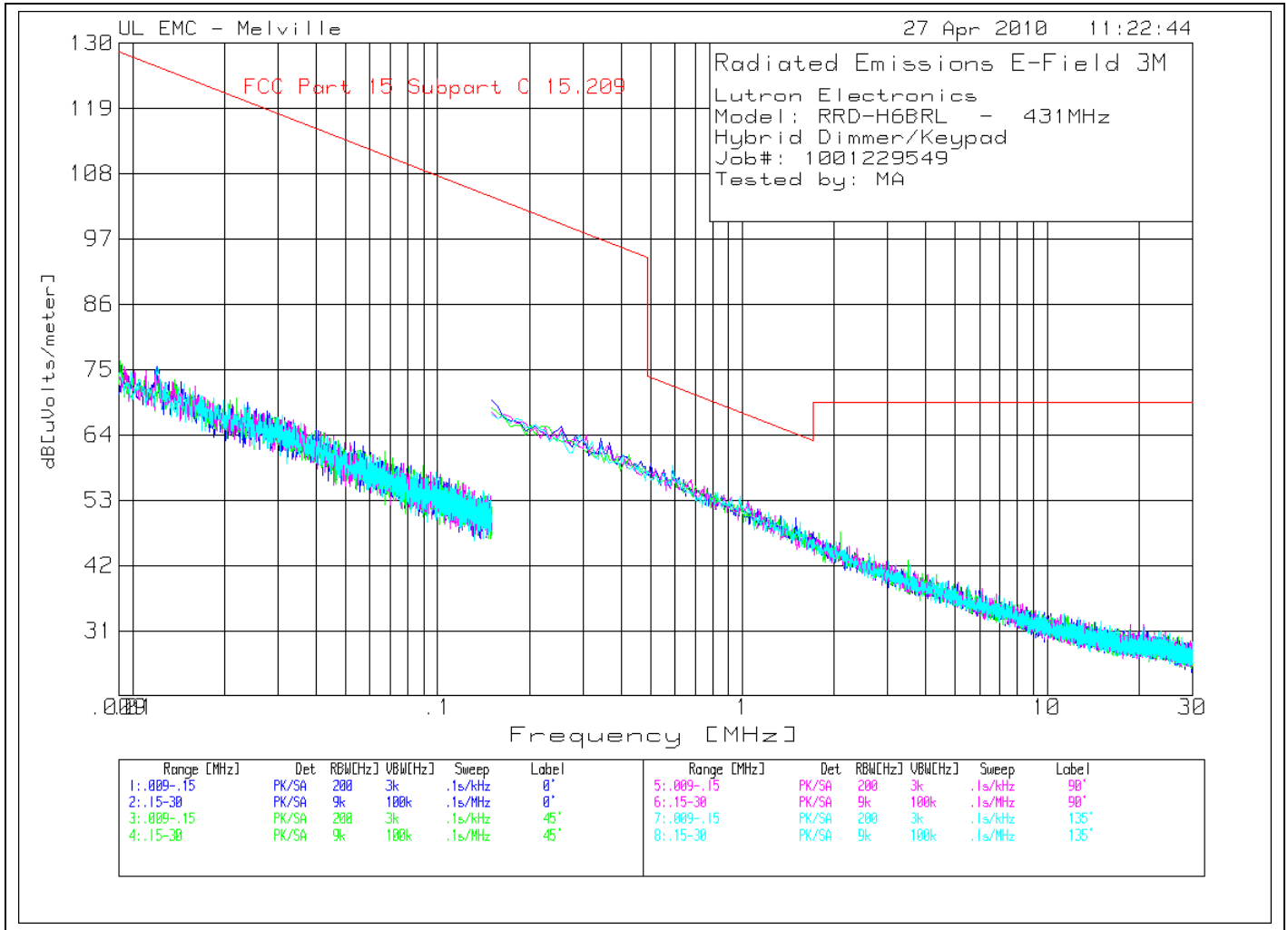


Table 19 Radiated Emissions Data Points

Lutron Electronics
 Model: RRD-H6BRL - 431MHz
 Hybrid Dimmer/Keypad
 Job#: 1001229549
 Tested by: MA

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

0°	.009 - .15MHz										
1	.01199	45.97 pk	0	29.6	75.57	126	-	-	-	-	-
	Azimuth:69	Height:100	Horz	Margin [dB]		-50.43	-	-	-	-	-
0°	.15 - 30MHz										
2	.4635	42.79 pk	0	16.7	59.49	94.3	-	-	-	-	-
	Azimuth:282	Height:100	Horz	Margin [dB]		-34.81	-	-	-	-	-
3	21.26669	12.88 pk	.2	17.9	30.98	69.5	-	-	-	-	-
	Azimuth:307	Height:100	Horz	Margin [dB]		-38.52	-	-	-	-	-
45°	.009 - .15MHz										
4	.016	43.72 pk	0	27.3	71.02	123.5	-	-	-	-	-
	Azimuth:222	Height:119	Horz	Margin [dB]		-52.48	-	-	-	-	-
45°	.15 - 30MHz										
5	.98601	35.31 pk	.1	16.9	52.31	67.7	-	-	-	-	-
	Azimuth:308	Height:119	Horz	Margin [dB]		-15.39	-	-	-	-	-
6	11.63766	15.79 pk	.2	17.5	33.49	69.5	-	-	-	-	-
	Azimuth:306	Height:119	Horz	Margin [dB]		-36.01	-	-	-	-	-
90°	.009 - .15MHz										
7	.01103	44.52 pk	0	30.2	74.72	126.7	-	-	-	-	-
	Azimuth:1	Height:140	Horz	Margin [dB]		-51.98	-	-	-	-	-
90°	.15 - 30MHz										
8	.55308	40.89 pk	.1	16.7	57.69	72.7	-	-	-	-	-
	Azimuth:258	Height:140	Horz	Margin [dB]		-15.01	-	-	-	-	-
9	18.7512	13.98 pk	.2	17.8	31.98	69.5	-	-	-	-	-
	Azimuth:356	Height:140	Horz	Margin [dB]		-37.52	-	-	-	-	-
135°	.009 - .15MHz										
10	.02051	44.56 pk	0	24.8	69.36	121.3	-	-	-	-	-
	Azimuth:15	Height:160	Horz	Margin [dB]		-51.94	-	-	-	-	-
135°	.15 - 30MHz										
11	1.2174	33.86 pk	.1	16.9	50.86	65.9	-	-	-	-	-
	Azimuth:358	Height:160	Horz	Margin [dB]		-15.04	-	-	-	-	-
12	15.02648	14.76 pk	.2	17.6	32.56	69.5	-	-	-	-	-
	Azimuth:7	Height:160	Horz	Margin [dB]		-36.94	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 17 Radiated Emissions Graph

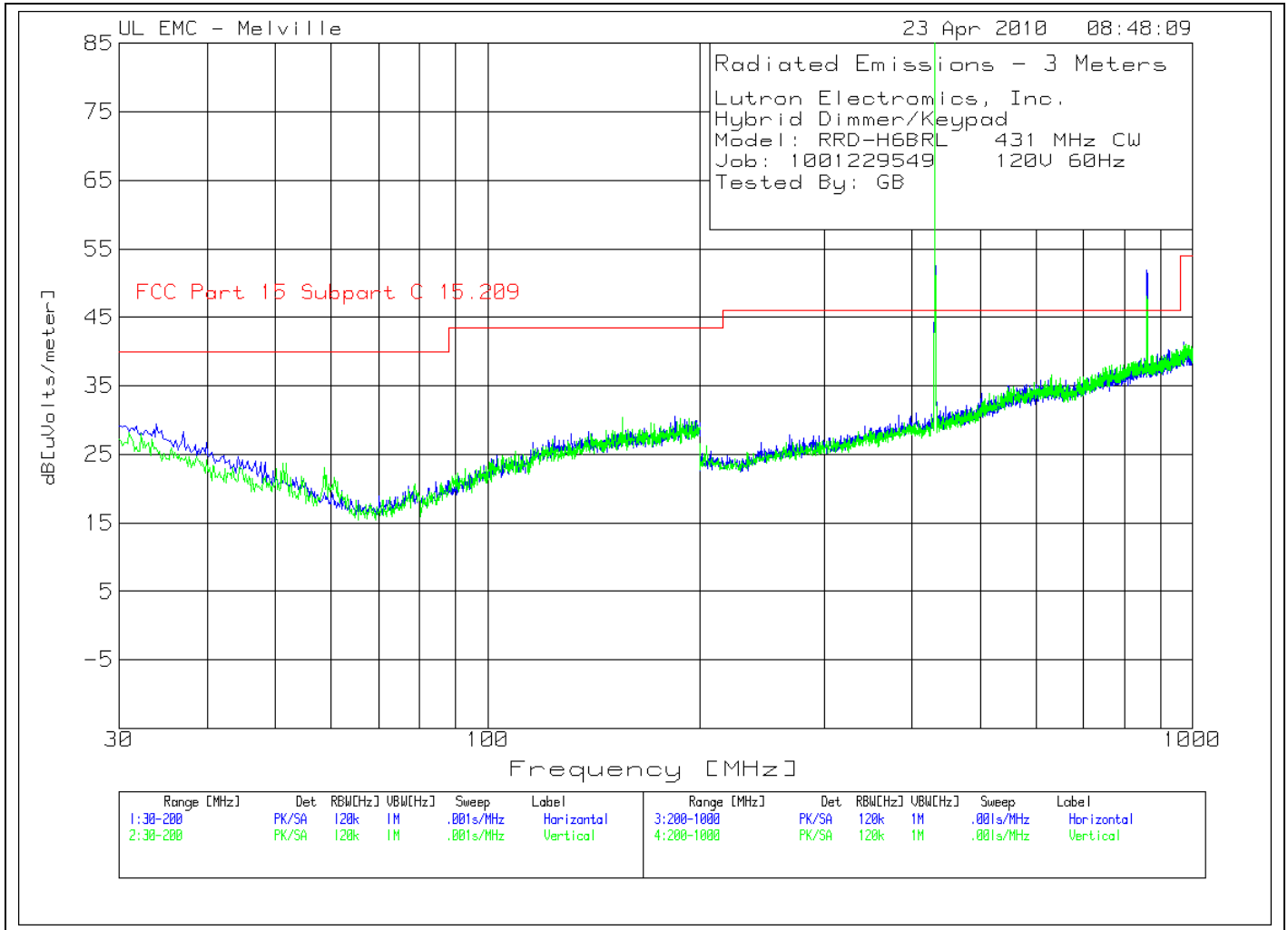


Table 20 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 30 - 200MHz -----											
1	33.9139	12.35 pk	.3	16.8	29.45	40	-	-	-	-	-
	Azimuth:15	Height:100	Horz	Margin [dB]		-10.55	-	-	-	-	-

Vertical 30 - 200MHz -----											
2	155.0751	14.04 pk	.8	15.5	30.34	43.5	-	-	-	-	-
	Azimuth:131	Height:100	Vert	Margin [dB]		-13.16	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
3	430.9155	74.42 pk	1.2	16.7	92.32	46	-	-	-	-	-
	Azimuth:3	Height:100	Horz	Margin [dB]		46.32	-	-	-	-	-
6	861.931	27.43 pk	1.6	22.9	51.93	46	-	-	-	-	-
	Azimuth:163	Height:100	Horz	Margin [dB]		5.93	-	-	-	-	-

Vertical 200 - 1000MHz -----											
4	431.3157	41.21 pk	1.2	16.4	58.81	46	-	-	-	-	-
	Azimuth:69	Height:100	Vert	Margin [dB]		12.81	-	-	-	-	-
5	861.931	23.32 pk	1.6	23.1	48.02	46	-	-	-	-	-
	Azimuth:129	Height:100	Vert	Margin [dB]		2.02	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Job Number: 1001229549 File Number: MC15832 Page 63 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
430.9776	72.9 PK	1.2	16.7	71.48*	-	80.7	-	-	-	-
Azimuth: 1	Height:146	Horz	Margin [dB]:		-	-9.22	-	-	-	-
862	27.61 QP	1.6	22.9	52.11	-	60.7	-	-	-	-
Azimuth: 196	Height:106	Horz	Margin [dB]:		-	-8.59	-	-	-	-
Vertical 200 - 1000MHz										
430.9776	71.49 PK	1.2	16.3	69.67*	-	80.7	-	-	-	-
Azimuth: 184	Height:113	Vert	Margin [dB]:		-	-11.03	-	-	-	-
861.977	27.5 QP	1.6	23.1	52.2	-	60.7	-	-	-	-
Azimuth: 195	Height:114	Vert	Margin [dB]:		-	-8.5	-	-	-	-

* - Correction factor from Section 4.4 applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector (Maximized)
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 18 Radiated Emissions Graph

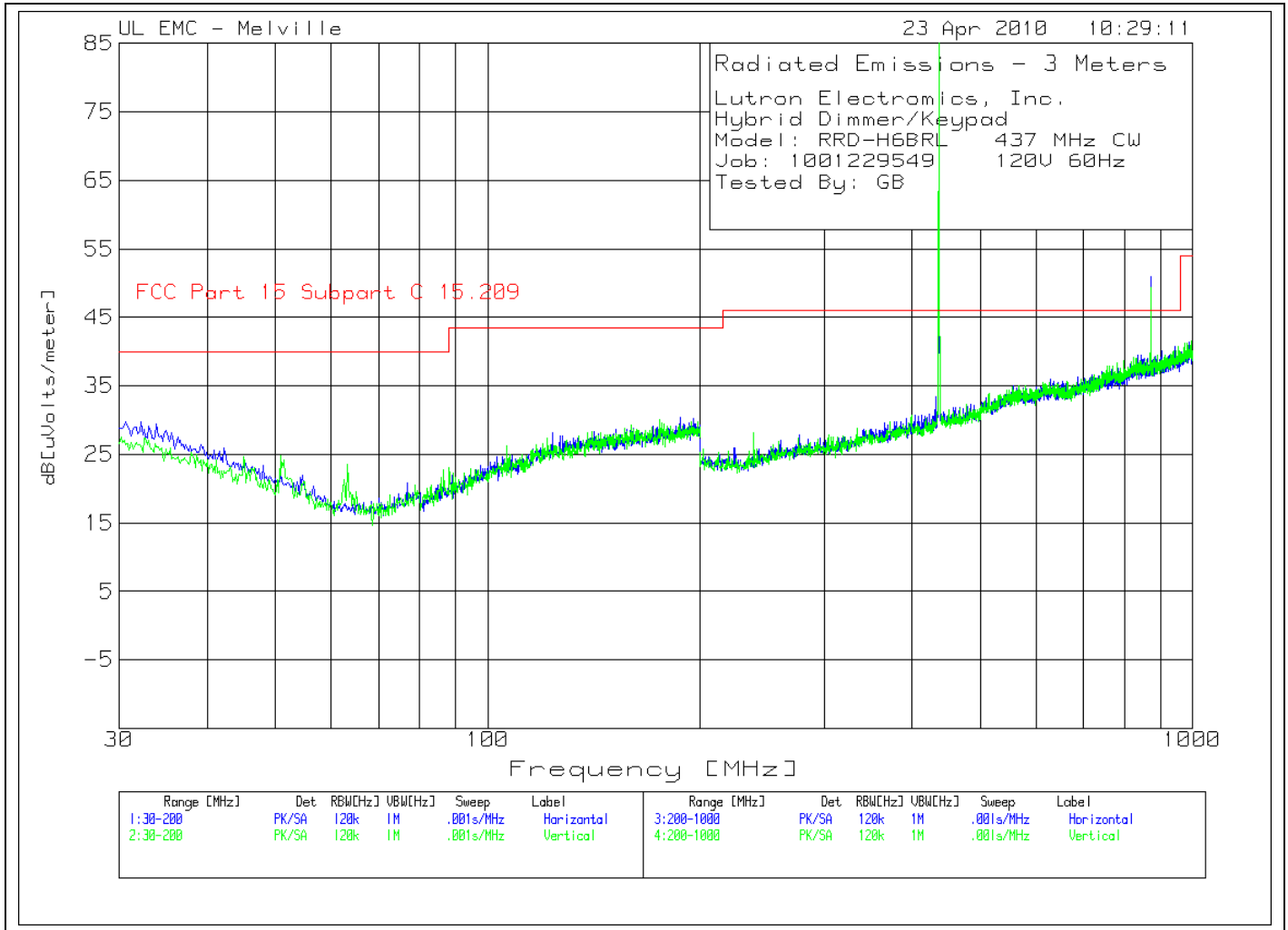


Table 21 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Vertical 30 - 200MHz -----											
1	50.9309	15.15 pk	.4	9.2	24.75	40	-	-	-	-	-
	Azimuth:320	Height:102	Vert	Margin [dB]		-15.25	-	-	-	-	-
2	63.1832	17.11 pk	.5	6	23.61	40	-	-	-	-	-
	Azimuth:230	Height:102	Vert	Margin [dB]		-16.39	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
3	436.9185	68 pk	1.1	17	86.1	46	-	-	-	-	-
	Azimuth:359	Height:200	Horz	Margin [dB]		40.1	-	-	-	-	-
5	873.937	26.42 pk	1.6	22.9	50.92	46	-	-	-	-	-
	Azimuth:97	Height:102	Horz	Margin [dB]		4.92	-	-	-	-	-
Vertical 200 - 1000MHz -----											
4	437.3187	36.12 pk	1.1	16.6	53.82	46	-	-	-	-	-
	Azimuth:254	Height:100	Vert	Margin [dB]		7.82	-	-	-	-	-
6	874.3372	13.31 pk	1.6	23.1	38.01	46	-	-	-	-	-
	Azimuth:96	Height:399	Vert	Margin [dB]		-7.99	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector

Job Number: 1001229549 File Number: MC15832 Page 66 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
436.8844	66.4 PK	1.1	17	65.18*	-	80.9	-	-	-	-
Azimuth: 336	Height:198	Horz		Margin [dB]:	-	-15.72	-	-	-	-
873.8	29.14 QP	1.6	22.9	53.64	-	60.9	-	-	-	-
Azimuth: 176	Height:168	Horz		Margin [dB]:	-	-7.26	-	-	-	-
Vertical 200 - 1000MHz										
436.9	71.05 PK	1.1	16.6	69.43*	-	80.9	-	-	-	-
Azimuth: 13	Height:139	Vert		Margin [dB]:	-	-11.47	-	-	-	-
873.8	21.67 QP	1.6	23.1	46.37	-	60.9	-	-	-	-
Azimuth: 183	Height:225	Vert		Margin [dB]:	-	-14.53	-	-	-	-

* - Correction factor from Section 4.4 applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector (Maximized)
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 19 Radiated Emissions Graph

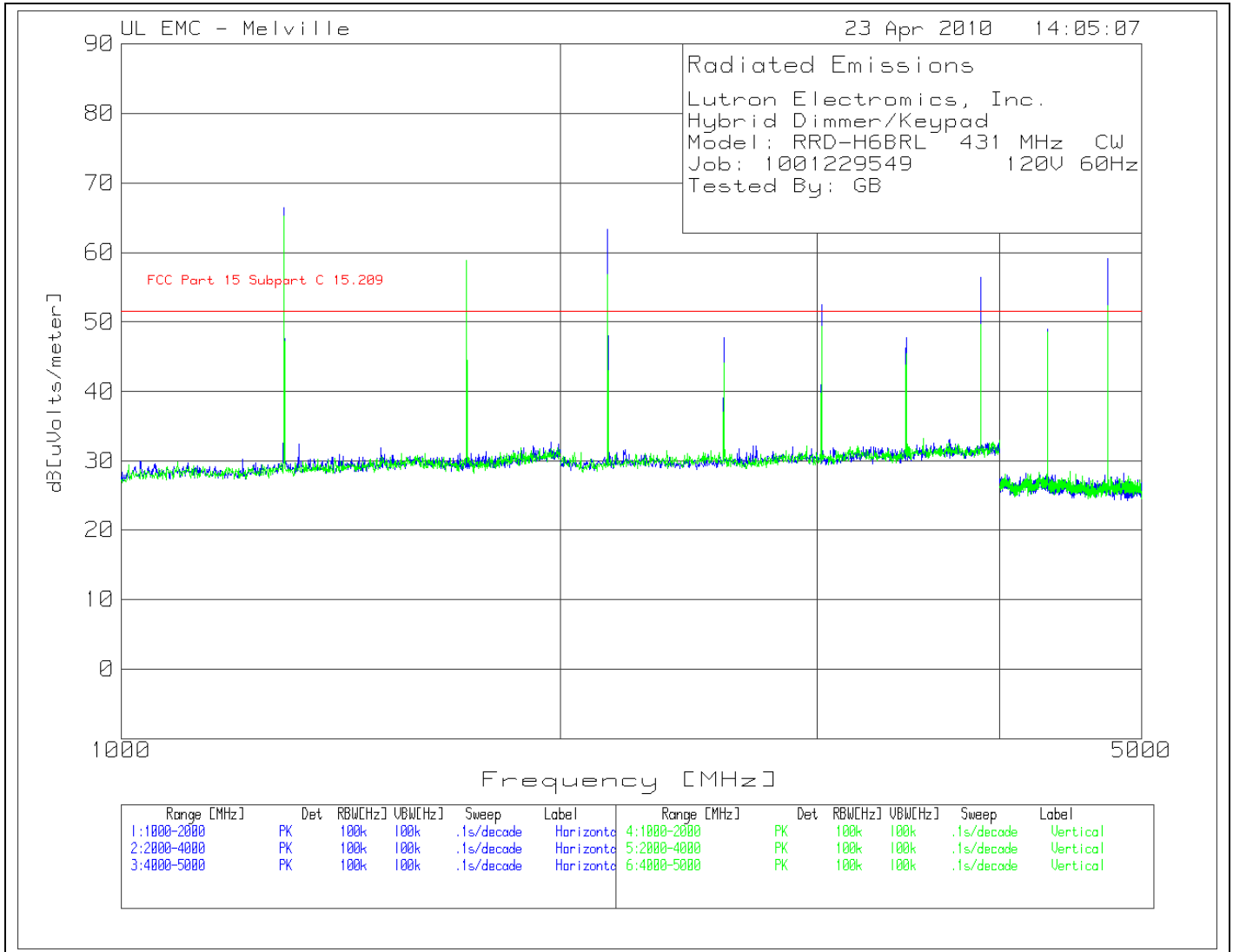


Table 22 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 1000 - 2000MHz -----											
1	1293.383	91.07 pk	-45.16	20.5	66.41	51.5	-	-	-	-	-
		Height:100 Horz		Margin [dB]		14.91	-	-	-	-	-
2	1725.343	79.2 pk	-44.36	20.8	55.64	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		4.14	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
5	2154.806	86.1 pk	-44.21	21.4	63.29	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		11.79	-	-	-	-	-
6	2586.767	69.98 pk	-43.49	21.3	47.79	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-3.71	-	-	-	-	-
7	3018.727	73.93 pk	-42.94	21.5	52.49	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		.99	-	-	-	-	-
12	3450.687	68.47 pk	-42.91	22.2	47.76	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-3.74	-	-	-	-	-
13	3880.15	76.81 pk	-42.94	22.6	56.47	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		4.97	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
15	4309.484	73.9 pk	-52.64	27.7	48.96	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-2.54	-	-	-	-	-
16	4741.265	85.23 pk	-53.29	27.2	59.14	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		7.64	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
3	1293.383	89.89 pk	-45.16	20.5	65.23	51.5	-	-	-	-	-
		Height:250 Vert		Margin [dB]		13.73	-	-	-	-	-
4	1725.343	82.4 pk	-44.36	20.8	58.84	51.5	-	-	-	-	-
		Height:101 Vert		Margin [dB]		7.34	-	-	-	-	-

Vertical 2000 - 4000MHz -----											
8	2154.806	80.05 pk	-44.21	21	56.84	51.5	-	-	-	-	-
		Height:101 Vert		Margin [dB]		5.34	-	-	-	-	-
9	2586.767	66.03 pk	-43.49	21.5	44.04	51.5	-	-	-	-	-
		Height:101 Vert		Margin [dB]		-7.46	-	-	-	-	-
10	3018.727	70.62 pk	-42.94	21.7	49.38	51.5	-	-	-	-	-
		Height:101 Vert		Margin [dB]		-2.12	-	-	-	-	-
11	3450.687	66.23 pk	-42.91	22.2	45.52	51.5	-	-	-	-	-
		Height:249 Vert		Margin [dB]		-5.98	-	-	-	-	-
14	3880.15	69.96 pk	-42.94	22.6	49.62	51.5	-	-	-	-	-
		Height:249 Vert		Margin [dB]		-1.88	-	-	-	-	-

Vertical 4000 - 5000MHz -----											
17	4309.484	73.41 pk	-52.64	27.8	48.57	51.5	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-2.93	-	-	-	-	-
18	4741.265	78.49 pk	-53.29	27.1	52.3	51.5	-	-	-	-	-
		Height:250 Vert		Margin [dB]		.8	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE

Job Number: 1001229549 File Number: MC15832 Page 69 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 431 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2000MHz										
1293	93.15 PK	-45.16	20.5	49.17*	-	60.7	-	-	-	-
Azimuth: 344		Height:204	Horz	Margin [dB]:	-	-11.53	-	-	-	-
1723.995	79.55 PK	-44.39	20.8	55.96	-	60.7	-	-	-	-
Azimuth: 219		Height:224	Horz	Margin [dB]:	-	-4.74	-	-	-	-
Horizontal 2000 - 4000MHz										
2154.9863	86.61 PK	-44.21	21.4	44.48*	-	60.7	-	-	-	-
Azimuth: 356		Height:349	Horz	Margin [dB]:	-	-16.22	-	-	-	-
2585.975	68.52 PK	-43.49	21.3	46.33	-	60.7	-	-	-	-
Azimuth: 282		Height:339	Horz	Margin [dB]:	-	-14.37	-	-	-	-
3016.9775	75.11 PK	-42.93	21.5	53.68	-	60.7	-	-	-	-
Azimuth: 6		Height:332	Horz	Margin [dB]:	-	-7.02	-	-	-	-
3447.9638	70.84 PK	-42.96	22.1	49.98	-	60.7	-	-	-	-
Azimuth: 192		Height:399	Horz	Margin [dB]:	-	-10.72	-	-	-	-
3878.9688	76.37 PK	-42.94	22.6	36.71*	51.5	-	-	-	-	-
Azimuth: 281		Height:284	Horz	Margin [dB]:	-14.79	-	-	-	-	-
Horizontal 4000 - 5000MHz										
4309.9675	73.41 PK	-52.63	27.7	48.48	51.5	-	-	-	-	-
Azimuth: 129		Height:188	Horz	Margin [dB]:	-3.02	-	-	-	-	-
4740.9525	85.06 PK	-53.29	27.2	39.65*	51.5	-	-	-	-	-
Azimuth: 145		Height:248	Horz	Margin [dB]:	-11.85	-	-	-	-	-
Vertical 1000 - 2000MHz										
1292.9925	90.91 PK	-45.16	20.5	46.93*	-	60.7	-	-	-	-
Azimuth: 360		Height:279	Vert	Margin [dB]:	-	-13.77	-	-	-	-
1723.9775	81.85 PK	-44.39	20.8	58.26	-	60.7	-	-	-	-
Azimuth: 183		Height:101	Vert	Margin [dB]:	-	-2.44	-	-	-	-
Vertical 2000 - 4000MHz										
2154.985	82.74 PK	-44.21	21	59.53	-	60.7	-	-	-	-
Azimuth: 13		Height:312	Vert	Margin [dB]:	-	-1.17	-	-	-	-
2585.9751	69.1 PK	-43.49	21.5	47.11	-	60.7	-	-	-	-
Azimuth: 222		Height:373	Vert	Margin [dB]:	-	-13.59	-	-	-	-
3016.9675	72.79 PK	-42.93	21.7	51.56	-	60.7	-	-	-	-
Azimuth: 91		Height:362	Vert	Margin [dB]:	-	-9.14	-	-	-	-

Job Number: 1001229549 File Number: MC15832 Page 70 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
3447.975	68.19 PK	-42.96	22.2	47.43	-	60.7	-	-	-	-
Azimuth: 152		Height:360	Vert	Margin [dB]:	-	-13.27	-	-	-	-
3878.9625	70.97 PK	-42.94	22.6	50.63	51.5	-	-	-	-	-
Azimuth: 187		Height:239	Vert	Margin [dB]:	-0.87	-	-	-	-	-
Vertical 4000 - 5000MHz										
4309.965	72.64 PK	-52.63	27.8	47.81	51.5	-	-	-	-	-
Azimuth: 1		Height:274	Vert	Margin [dB]:	-3.69	-	-	-	-	-
4740.96	73.45 PK	-53.29	27.1	47.26	51.5	-	-	-	-	-
Azimuth: 194		Height:100	Vert	Margin [dB]:	-4.24	-	-	-	-	-

* - Correction factor from Section 4.4 applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector (Maximized)
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 20 Radiated Emissions Graph

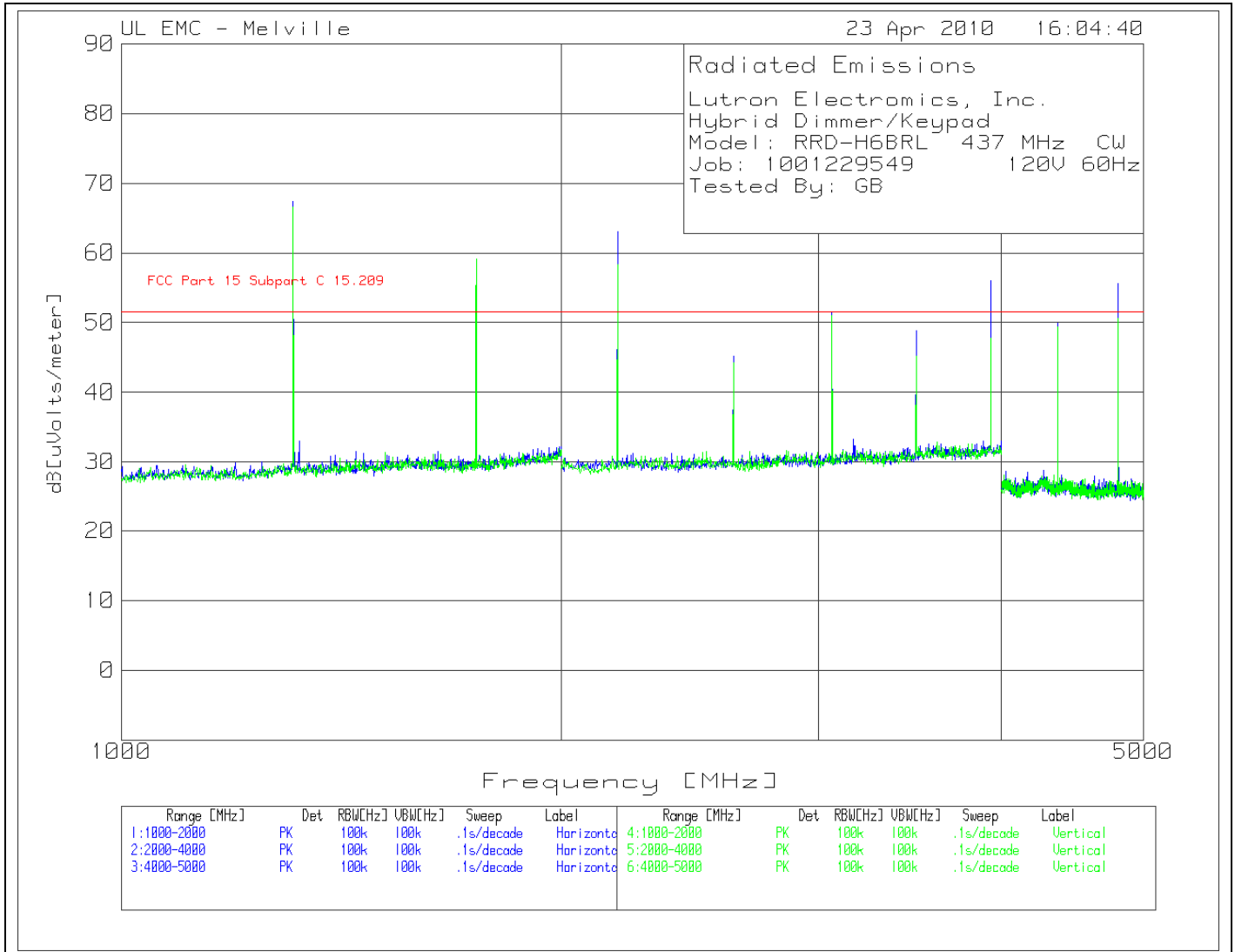


Table 23 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 1000 - 2000MHz -----											
1	1310.861	91.97 pk	-45.09	20.5	67.38	51.5	-	-	-	-	-
		Height:100 Horz		Margin [dB]		15.88	-	-	-	-	-
2	1749.064	78.37 pk	-44.33	20.8	54.84	51.5	-	-	-	-	-
		Height:100 Horz		Margin [dB]		3.34	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
5	2184.769	85.57 pk	-44	21.5	63.07	51.5	-	-	-	-	-
		Height:250 Horz		Margin [dB]		11.57	-	-	-	-	-
6	2621.723	67.39 pk	-43.56	21.4	45.23	51.5	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-6.27	-	-	-	-	-
7	3061.174	72.99 pk	-42.99	21.6	51.6	51.5	-	-	-	-	-
				Margin [dB]		.1	-	-	-	-	-
8	3495.63	69.49 pk	-42.87	22.2	48.82	51.5	-	-	-	-	-
				Margin [dB]		-2.68	-	-	-	-	-
9	3932.584	76.19 pk	-42.81	22.7	56.08	51.5	-	-	-	-	-
				Margin [dB]		4.58	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
15	4369.384	75.01 pk	-52.71	27.6	49.9	51.5	-	-	-	-	-
				Margin [dB]		-1.6	-	-	-	-	-
16	4806.156	82.04 pk	-53.55	27.1	55.59	51.5	-	-	-	-	-
				Margin [dB]		4.09	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
3	1310.861	91.16 pk	-45.09	20.5	66.57	51.5	-	-	-	-	-
		Height:250 Vert		Margin [dB]		15.07	-	-	-	-	-
4	1749.064	82.64 pk	-44.33	20.8	59.11	51.5	-	-	-	-	-
		Height:100 Vert		Margin [dB]		7.61	-	-	-	-	-

Vertical 2000 - 4000MHz -----											
10	2184.769	81.13 pk	-44	21.2	58.33	51.5	-	-	-	-	-
				Margin [dB]		6.83	-	-	-	-	-
11	2621.723	66.33 pk	-43.56	21.4	44.17	51.5	-	-	-	-	-
				Margin [dB]		-7.33	-	-	-	-	-
12	3061.174	72.22 pk	-42.99	21.8	51.03	51.5	-	-	-	-	-
				Margin [dB]		-.47	-	-	-	-	-
13	3495.63	65.62 pk	-42.87	22.4	45.15	51.5	-	-	-	-	-
				Margin [dB]		-6.35	-	-	-	-	-
14	3932.584	67.83 pk	-42.81	22.7	47.72	51.5	-	-	-	-	-
				Margin [dB]		-3.78	-	-	-	-	-

Vertical 4000 - 5000MHz -----											
17	4369.384	74.38 pk	-52.71	27.7	49.37	51.5	-	-	-	-	-
				Margin [dB]		-2.13	-	-	-	-	-
18	4806.156	76.86 pk	-53.55	27.3	50.61	51.5	-	-	-	-	-
				Margin [dB]		-.89	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE

Job Number: 1001229549 File Number: MC15832 Page 73 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL 437 MHz CW
 Job: 1001229549 120V 60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2000MHz										
1310.1	94.7 PK	-45.07	20.5	50.76*	51.5	-	-	-	-	-
Azimuth: 344		Height:200		Horz		Margin [dB]:		-.74		
1746.7925	81.79 PK	-44.37	20.8	58.22	-	60.9	-	-	-	-
Azimuth: 239		Height:325		Horz		Margin [dB]:		-2.68		
Horizontal 2000 - 4000MHz										
2183.5	86.7 PK	-44.04	21.5	44.84*	-	60.9	-	-	-	-
Azimuth: 36		Height:343		Horz		Margin [dB]:		-16.06		
2620.18	66.66 PK	-43.55	21.4	44.51	-	60.9	-	-	-	-
Azimuth: 223		Height:359		Horz		Margin [dB]:		-16.39		
3056.9	73.37 PK	-42.89	21.6	52.08	-	60.9	-	-	-	-
Azimuth: 35		Height:389		Horz		Margin [dB]:		-8.82		
3493.5949	72.1 PK	-42.93	22.2	51.37	-	60.9	-	-	-	-
Azimuth: 198		Height:322		Horz		Margin [dB]:		-9.53		
3930.2935	76.19 PK	-42.82	22.7	36.75*	51.5	-	-	-	-	-
Azimuth: 286		Height:179		Horz		Margin [dB]:		-14.75		
Horizontal 4000 - 5000MHz										
4366.9863	75.33 PK	-52.71	27.6	50.22	51.5	-	-	-	-	-
Azimuth: 144		Height:175		Horz		Margin [dB]:		-1.28		
4803.685	82.54 PK	-53.53	27.1	36.79	51.5	-	-	-	-	-
Azimuth: 323		Height:246		Horz		Margin [dB]:		-14.71		
Vertical 1000 - 2000MHz										
1310.1	93.69 PK	-45.07	20.5	49.8*	51.5	-	-	-	-	-
Azimuth: 21		Height:278		Vert		Margin [dB]:		-1.7		
1746.7975	82.63 PK	-44.37	20.8	59.06	-	60.9	-	-	-	-
Azimuth: 185		Height:101		Vert		Margin [dB]:		-1.84		
Vertical 2000 - 4000MHz										
2183.495	84.16 PK	-44.04	21.2	42*	-	60.9	-	-	-	-
Azimuth: 22		Height:304		Vert		Margin [dB]:		-18.9		
2620.2	67.06 PK	-43.55	21.4	44.91	-	60.9	-	-	-	-
Azimuth: 200		Height:276		Vert		Margin [dB]:		-15.99		
3056.905	73.97 PK	-42.89	21.8	52.88	-	60.9	-	-	-	-
Azimuth: 312		Height:332		Vert		Margin [dB]:		-8.02		
3493.5975	69.06 PK	-42.93	22.4	48.53	-	60.9	-	-	-	-
Azimuth: 337		Height:389		Vert		Margin [dB]:		-12.37		
3930.2925	63.61 PK	-42.82	22.7	43.49	51.5	-	-	-	-	-
Azimuth: 65		Height:356		Vert		Margin [dB]:		-8.01		

Job Number: 1001229549 File Number: MC15832 Page 74 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical	4000 - 5000MHz									
4366.9865	69.98 PK	-52.71	27.7	44.97	51.5	-	-	-	-	-
Azimuth: 2	Height:293	Vert		Margin [dB]:	-6.53	-	-	-	-	-
4803.6913	75.52 PK	-53.53	27.3	49.29	51.5	-	-	-	-	-
Azimuth: 171	Height:349	Vert		Margin [dB]:	-2.21	-	-	-	-	-

* - Correction factor from Section 4.4 applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

4.6 Test Conditions and Results – Radiated Emissions – Receive Mode

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Basic Standard	FCC Part 15, Subpart B, 15.109	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 2GHz	(3 meter measurement distance)
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-88	40	NA
88-216	43.5	NA
216-960	46	NA
960-1000	54	NA
1000-2000	NA	54
Supplementary information: None		

Table 24 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	3
1	1	4
Supplementary information: None		

Table 25 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968

Job Number: 1001229549 File Number: MC15832 Page 76 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Log-P Antenna	Schaffner	UPA6109	44068
Bicon Antenna	Schaffner	VBA6106A	54
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-305
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251
RF Switch / Preamp Fixture	UL	BOMS1	50249
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-305

Figure 21 Test setup for Radiated Emissions

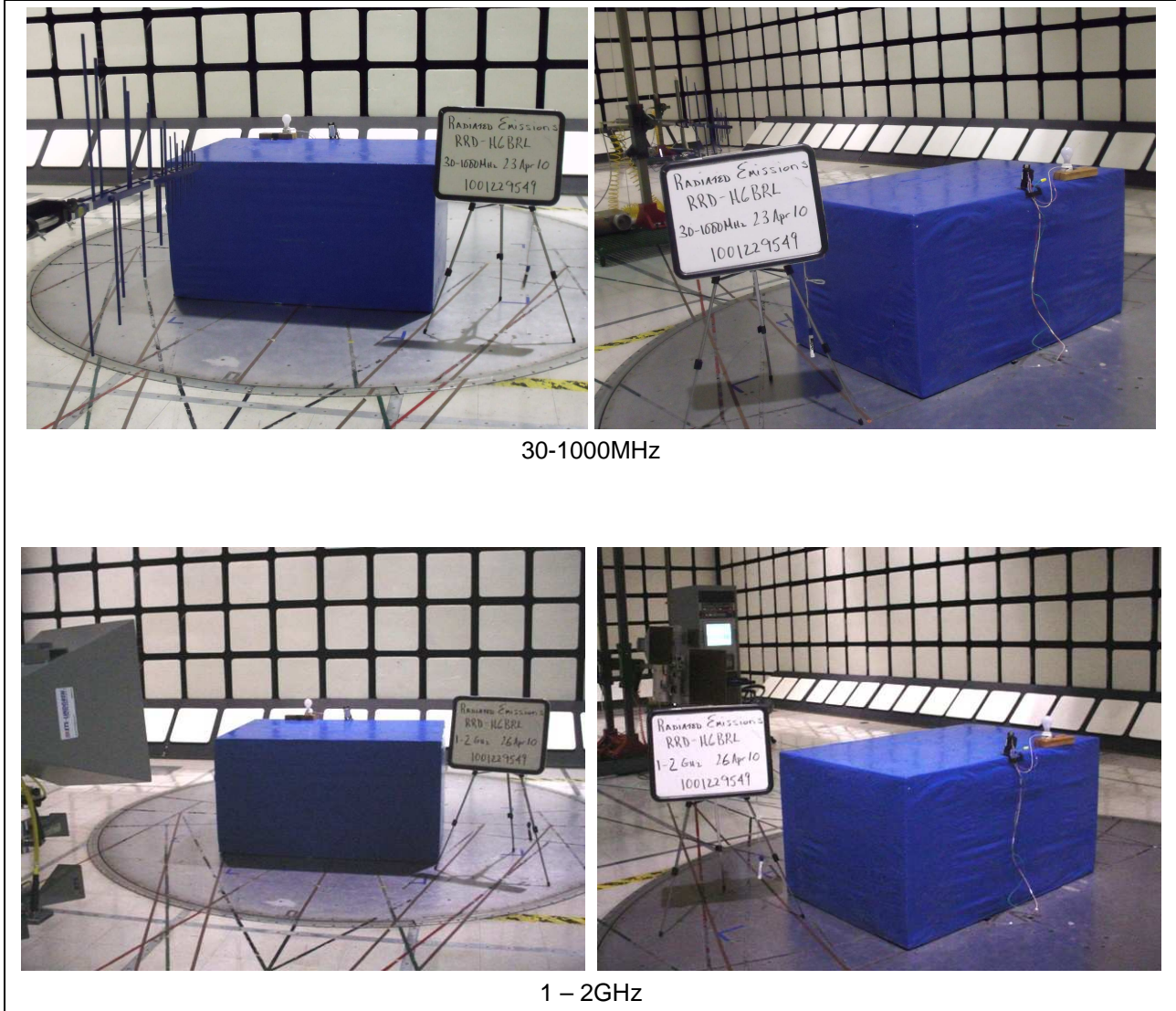


Figure 22 Radiated Emissions Graph

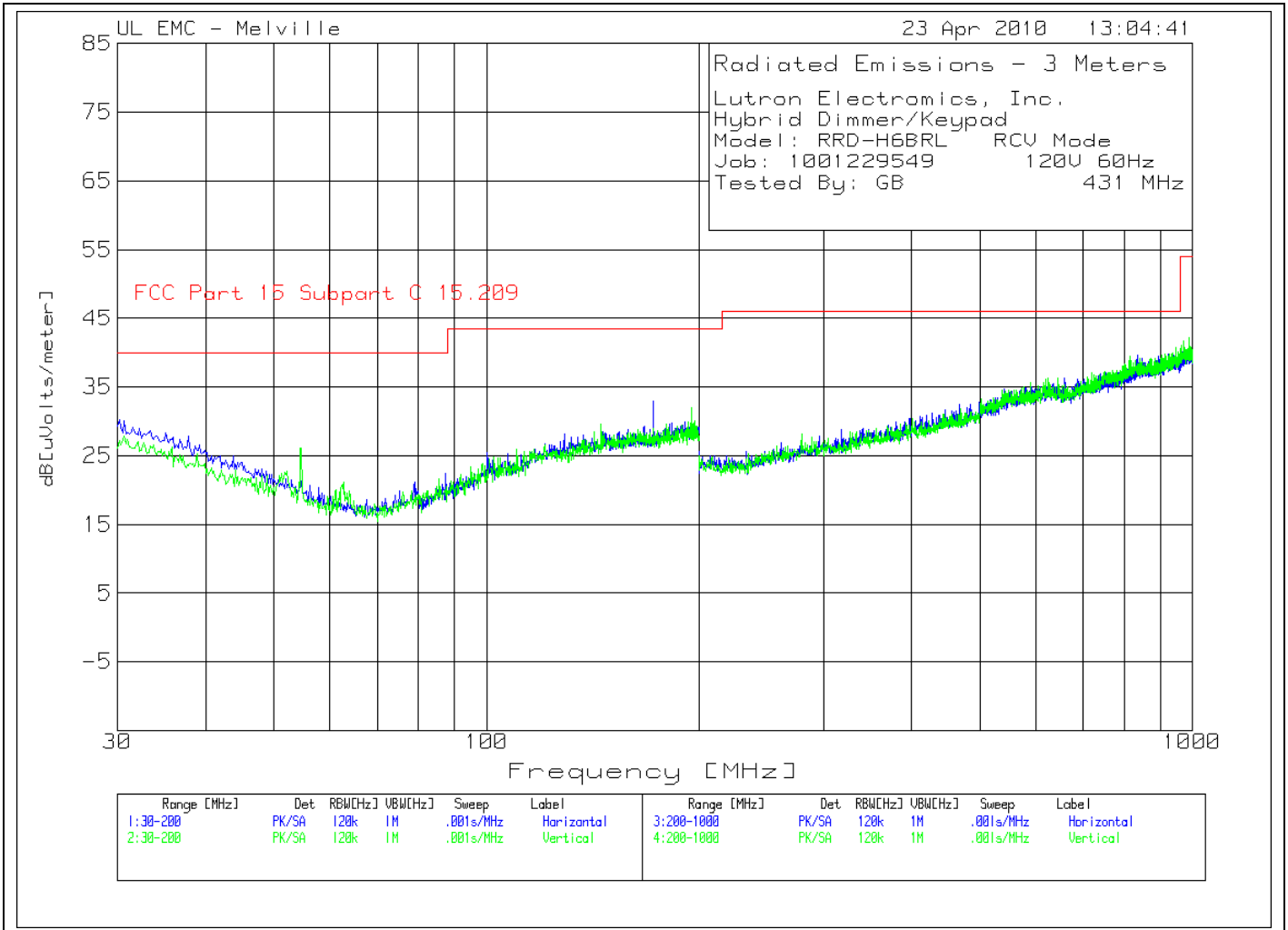


Table 26 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 431 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 30 - 200MHz -----											
1	37.8278	12.35 pk	.4	15.1	27.85	40	-	-	-	-	-
	Azimuth:186	Height:100	Horz	Margin [dB]		-12.15	-	-	-	-	-
3	100.2803	14.17 pk	.7	10.6	25.47	43.5	-	-	-	-	-
	Azimuth:11	Height:400	Horz	Margin [dB]		-18.03	-	-	-	-	-
4	172.0921	17.33 pk	.8	14.8	32.93	43.5	-	-	-	-	-
	Azimuth:156	Height:300	Horz	Margin [dB]		-10.57	-	-	-	-	-

Vertical 30 - 200MHz -----											
2	54.5045	17.57 pk	.4	8.2	26.17	40	-	-	-	-	-
	Azimuth:274	Height:102	Vert	Margin [dB]		-13.83	-	-	-	-	-
5	194.8949	14.9 pk	.8	16.3	32	43.5	-	-	-	-	-
	Azimuth:41	Height:102	Vert	Margin [dB]		-11.5	-	-	-	-	-

Vertical 200 - 1000MHz -----											
6	816.7084	14.76 pk	1.6	23.1	39.46	46	-	-	-	-	-
	Azimuth:32	Height:200	Vert	Margin [dB]		-6.54	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector

Figure 23 Radiated Emissions Graph

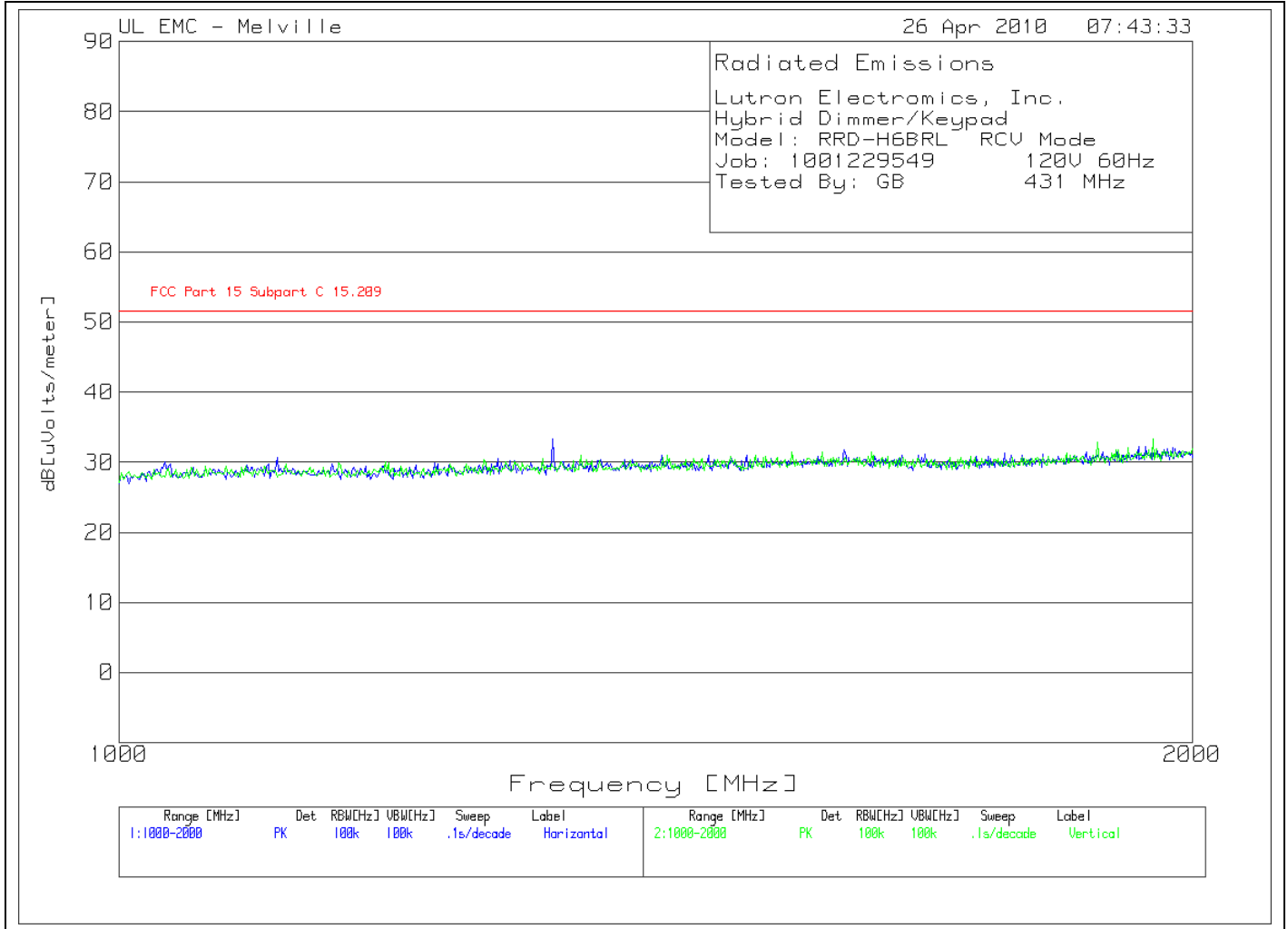


Table 27 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 431 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6
Horizontal 1000 - 2000MHz -----										
1	1029.963	55.74 pk	-45.22	19.5	30.02	51.5	-	-	-	-
		Height:100	Horz	Margin [dB]		-21.48	-	-	-	-
2	1107.366	55.87 pk	-45.22	20	30.65	51.5	-	-	-	-
		Height:100	Horz	Margin [dB]		-20.85	-	-	-	-
3	1323.346	57.99 pk	-45.1	20.5	33.39	51.5	-	-	-	-
		Height:100	Horz	Margin [dB]		-18.11	-	-	-	-
4	1596.754	55.15 pk	-44.52	21.2	31.83	51.5	-	-	-	-
		Height:100	Horz	Margin [dB]		-19.67	-	-	-	-
Vertical 1000 - 2000MHz -----										
5	1881.398	55.41 pk	-44.07	21.5	32.84	51.5	-	-	-	-
		Height:100	Vert	Margin [dB]		-18.66	-	-	-	-
6	1950.062	55.28 pk	-43.92	21.9	33.26	51.5	-	-	-	-
		Height:250	Vert	Margin [dB]		-18.24	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Log average detection.

Figure 24 Radiated Emissions Graph

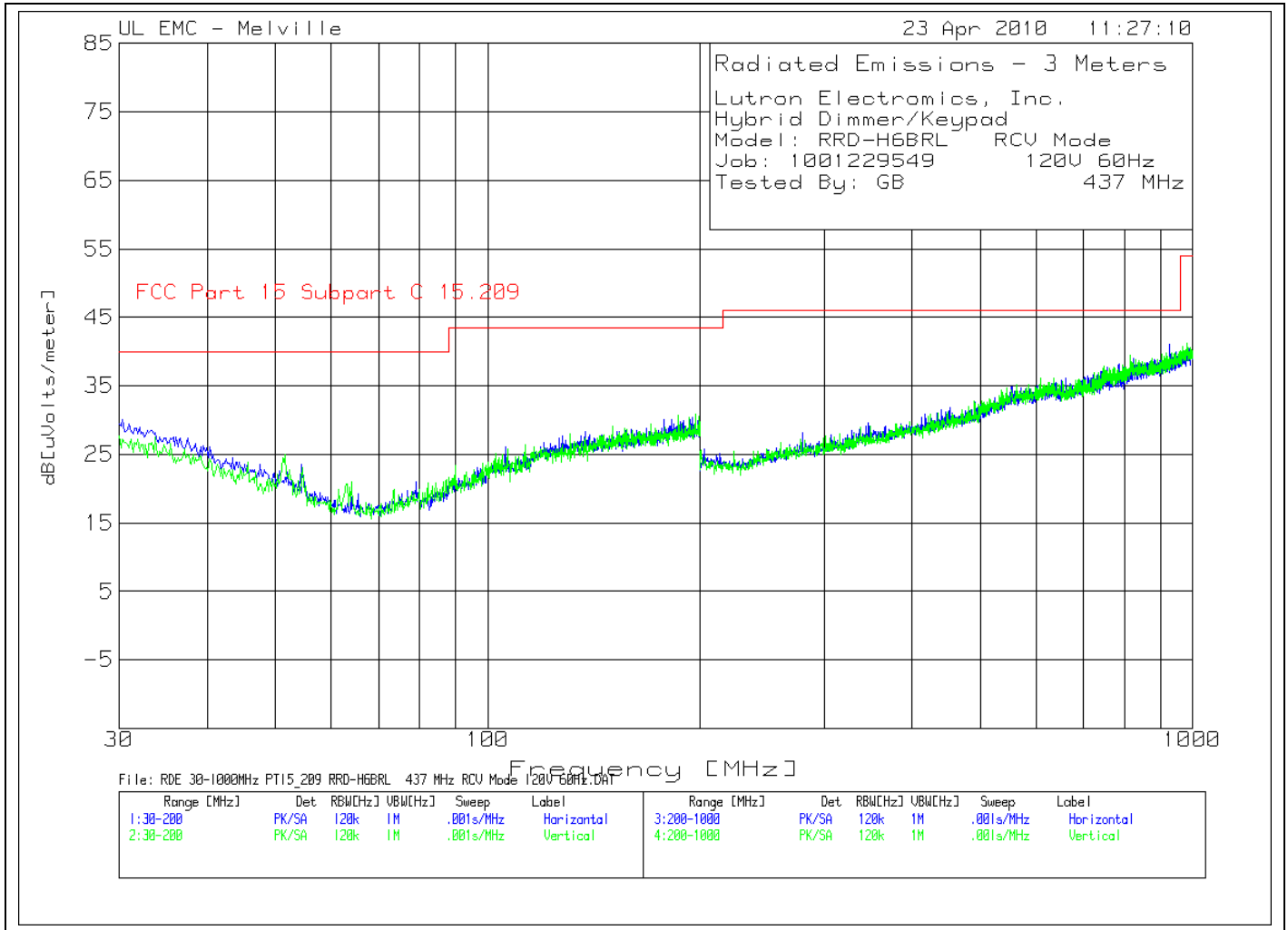


Table 28 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 30 - 200MHz -----											
1	30.3403	11.41 pk	.3	18.4	30.11	40	-	-	-	-	-
				Margin [dB]		-9.89	-	-	-	-	-
2	54.5045	14.72 pk	.4	8.5	23.62	40	-	-	-	-	-
				Margin [dB]		-16.38	-	-	-	-	-
3	105.8959	14.14 pk	.7	11.3	26.14	43.5	-	-	-	-	-
				Margin [dB]		-17.36	-	-	-	-	-

Vertical 30 - 200MHz -----											
4	51.6116	15.62 pk	.4	9	25.02	40	-	-	-	-	-
				Margin [dB]		-14.98	-	-	-	-	-
5	64.034	14.65 pk	.5	5.9	21.05	40	-	-	-	-	-
				Margin [dB]		-18.95	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
6	928.7644	15.93 pk	1.6	23.6	41.13	46	-	-	-	-	-
				Margin [dB]		-4.87	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector

Job Number: 1001229549 File Number: MC15832 Page 84 of 89
 Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
 Client Name: LUTRON ELECTRONICS INC

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal	200 - 1000MHz									
928.7	8.73 QP	1.6	23.6	33.93	46	-	-	-	-	-
Azimuth: 271	Height:295	Horz		Margin [dB]:	-12.07	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 25 Radiated Emissions Graph

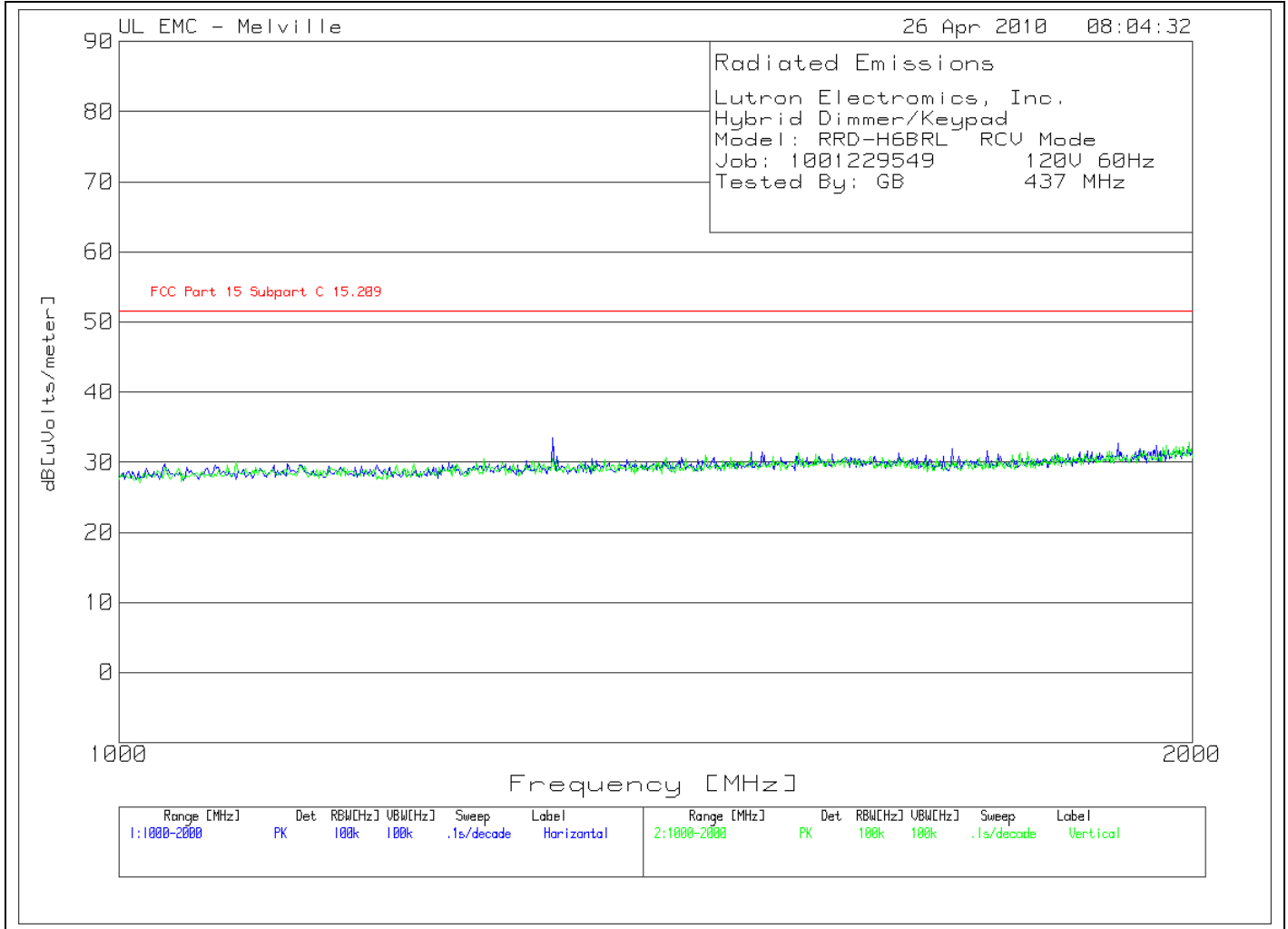


Table 29 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Hybrid Dimmer/Keypad
 Model: RRD-H6BRL RCV Mode
 Job: 1001229549 120V 60Hz
 Tested By: GB 437 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6

Horizontal 1000 - 2000MHz -----										
1	1114.856	55.02 pk	-45.22	20	29.8	51.5	-	-	-	-
		Height:100 Horz		Margin [dB]		-21.7	-	-	-	-
2	1300.874	54.86 pk	-45.09	20.5	30.27	51.5	-	-	-	-
		Height:100 Horz		Margin [dB]		-21.23	-	-	-	-
3	1323.346	58.1 pk	-45.1	20.5	33.5	51.5	-	-	-	-
		Height:100 Horz		Margin [dB]		-18	-	-	-	-
4	1654.182	54.86 pk	-44.45	20.9	31.31	51.5	-	-	-	-
		Height:250 Horz		Margin [dB]		-20.19	-	-	-	-
5	1751.561	55.12 pk	-44.33	20.9	31.69	51.5	-	-	-	-
		Height:100 Horz		Margin [dB]		-19.81	-	-	-	-
6	1906.367	55.13 pk	-43.98	21.6	32.75	51.5	-	-	-	-
		Height:250 Horz		Margin [dB]		-18.75	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Log average detection.
 AV - Average detection
 CAV - CISPR average detection

Job Number: 1001229549 File Number: MC15832 Page 87 of 89
Model Number: RRD-H6BRL-XX FCC ID: JPZ0071 IC ID: 2851A-JPZ0071
Client Name: LUTRON ELECTRONICS INC

5.0 IMMUNITY TEST RESULTS

Not Applicable

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100255-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1002550.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91040).



Industry Canada Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2181



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: (Radiated Emissions) R-797, (Conducted Emissions) C-832, C-83400, and C-81879 and (Conducted Emissions - Telecommunications Ports) T-1582 and T-1583.



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 89/336/EEC, Article 10 (2). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6

