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Job Number:	1001172233
Project Number:	09CA51199
File Number:	MC15896
Date:	October 30, 2009
Model:	RRD-3LD
FCC ID:	JPZ0066
IC Number:	2851A-JPZ0035

Electromagnetic Compatibility Test Report

For

LUTRON ELECTRONICS INC

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Melville, NY 11747

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Tel: (631) 271-6200 Fax: (631)439-6095

Job Number: 1001172233 File Number: MC15896 Page 2 of 87
Model Number: RRD-3LD
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Report Details

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

Tests Performed For: **LUTRON ELECTRONICS INC
7200 SUTTER ROAD
COOPERBURG, PA 18036**

Applicant Contact: **Bob Spehalski**
Title: **Engineering Manager**
Phone: **(610) 282-7424**
E-mail: **rspehalski@lutron.com**

Test Report Date: **October 30, 2009**

Product Type: **Low Power Transceiver**

Product standards **FCC Part 15, Subpart B, Subpart C, 15.231, RSS-GEN,
RSS-210, IECS-003**

Model Number: **RRD-3LD**

Sample Serial Number: **Non-serialized production unit**

EUT Category: **Periodic Low Power Transceiver**

Testing Start Date: **October 23, 2009**

Date Testing Complete: **October 30, 2009**

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

Table Lamp Dimmer Controls for Table and Floor Lamps. - Lights fade up or down over 3 seconds when turned on or off. Double tap instantly brings lights to full on. Long tap (press and hold for 1/2 second) fades lights to off over 10 seconds. Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached. Allows local control of table or floor lamps in a RadioRA system to:

- turn lights on or off
- adjust light intensity

Models HRT-3LD_0035, MRF2-3LD, SRD-3LD, RRD-3LD: All of the models listed above are identical from a radio and hardware aspect. They differ in software only. The prefix (HRT, RRD, etc.) denotes the type of system these devices communicate with. The communication protocol, data packet type, etc. are all the same, the only difference is a software bit that tells the device which system they are to be a part of.

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

Antenna description: It is a permanently attached to the RF circuit board and the transmit antenna type is a PCB trace antenna.

Note: the manufacturer changed the model 366-981T to RRD-3LD. Through out the report where graphics and photos indicate 366-981T it should be taken as RRD-3LD.

1.2 Equipment Marking Plate

Not available

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Low Power Transceiver	LUTRON ELECTRONICS INC	RRD-3LD	None

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	Y	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:

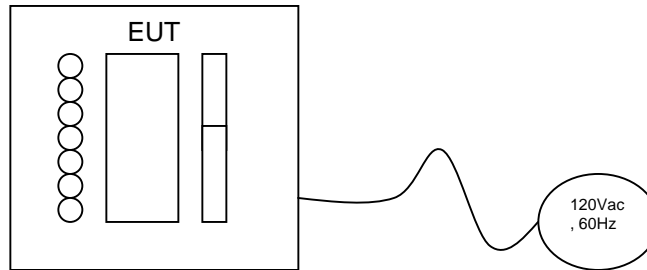
Frequency (MHz)	Description
431 – 437MHz	Fundamental Frequency Range
0.00111	LED PWM
0.0625	Data
0.132	Switching Power Supply
0.203	IF
13	Bus
26	Clock
26	Crystal

1.3.4 Power Interface:

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

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	Stand-alone

1.6 EUT Operation Modes

Mode #	Description
1	Continuously transmitting at 431MHz with modulation (packet mode)
2	Continuously transmitting at 437MHz with modulation (packet mode)
3	Transmitting normal operation at 431MHz
4	Transmitting normal operation at 437MHz
5	Receive Mode tuned to 431MHz
6	Receive Mode tuned to 437MHz

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
FCC Part 15, Subpart C, 15.231	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
FCC Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
RSS-GEN, Issue 2	General Requirements and Information for the Certification of Radiocommunication Equipment	2007
RSS-210, Issue 7	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007
ICES-003, Issue 4	Digital Apparatus	2004

2.4 Results Summary

This product is considered a low power periodic transceiver

Requirement – Test	Result (Compliant / Non-Compliant)*
Radiated Emissions - Intentional	Compliant
Pulse Train Measurement	Compliant
Conducted Emissions - Mains	Compliant
Occupied Bandwidth – 20dB	Compliant
Occupied Bandwidth – 99% Power	Compliant
Cease Operation	Compliant
Radiated Emissions - Unintentional	Compliant

Test Engineer:



Bob DeLisi (Ext.22452)
 Senior Staff Engineer
 International EMC Services
 Conformity Assessment Services-

Reviewer:



Joe Danisi(Ext.23055)
 Lead Engineering Associate
 International EMC Services
 Conformity Assessment Services

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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 and C, Radio Frequency Devices
Industry Canada	RSS-GEN, RSS-210 and ICES-003

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 and Subpart C, 15.207, RSS-210, ICES-003	
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
Limits - Class B		
Frequency (MHz)	Limit (dB μ V)	
	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
1	1	2
1	1	5
1	1	6
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	EMCO	3825/2R	ME5-790
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
Multimeter	Fluke	87V	44547

Figure 1 Test Setup for Conducted Emissions



Figure 2 Conducted Emissions Graph

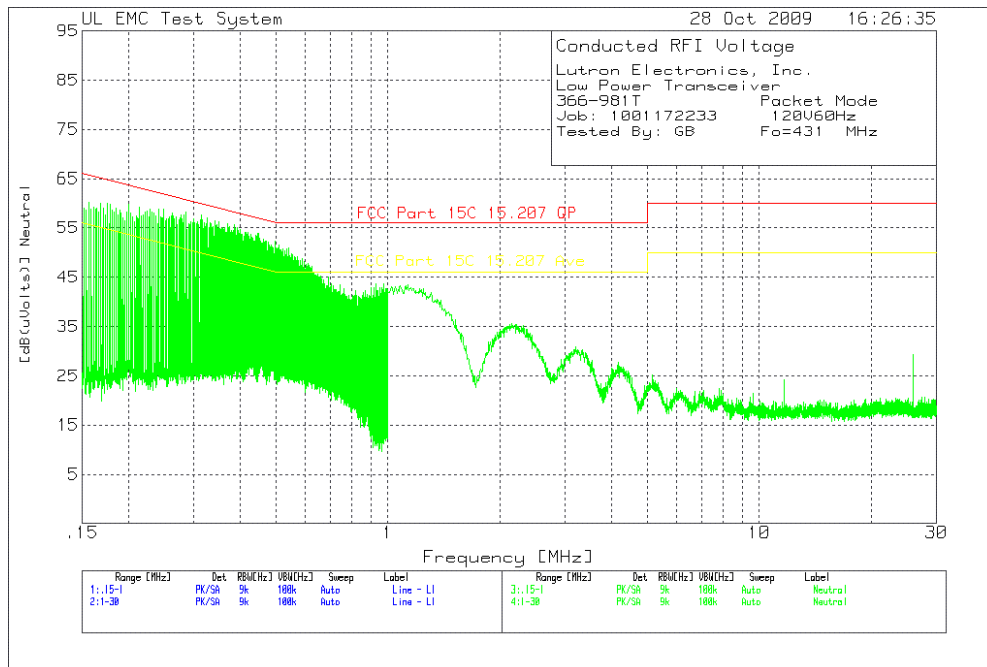
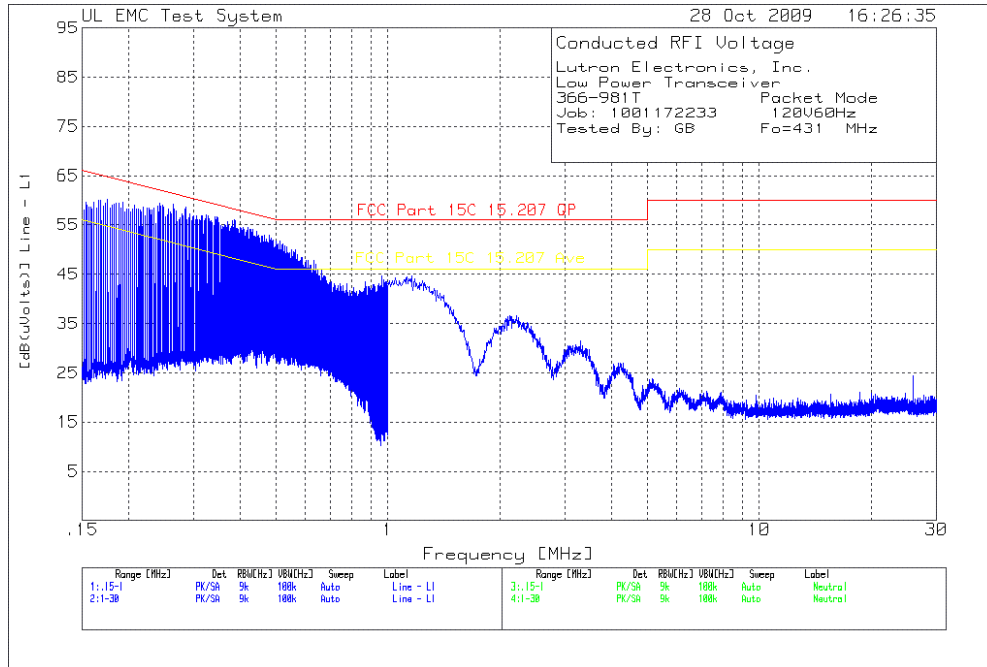


Table 3 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=431 MHz

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	.16649	48.14 pk	11.9	0	60.04	65.1	55.1	-	-	-	-
				Margin [dB]		-5.06	4.94	-	-	-	-
2	.22465	47.21 pk	11.3	0	58.51	62.6	52.6	-	-	-	-
				Margin [dB]		-4.09	5.91	-	-	-	-
3	.29317	46.29 pk	10.9	0	57.19	60.4	50.4	-	-	-	-
				Margin [dB]		-3.21	6.79	-	-	-	-
4	.3855	45.43 pk	10.7	0	56.13	58.2	48.2	-	-	-	-
				Margin [dB]		-2.07	7.93	-	-	-	-
5	.5642	39.5 pk	10.5	0	50	56	46	-	-	-	-
				Margin [dB]		-6	4	-	-	-	-
6	.79545	30.7 pk	10.4	0	41.1	56	46	-	-	-	-
				Margin [dB]		-14.9	-4.9	-	-	-	-

Line - L1	1	-	30MHz	-----							
7	1.15663	34.17 pk	10.4	0	44.57	56	46	-	-	-	-
				Margin [dB]		-11.43	-1.43	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 15 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

Neutral .15 - 1MHz -----											
8	.17602	48.16 pk	11.8	0	59.96	64.7	54.7	-	-	-	-
				Margin [dB]		-4.74	5.26	-	-	-	-
9	.24182	47.66 pk	11.2	0	58.86	62	52	-	-	-	-
				Margin [dB]		-3.14	6.86	-	-	-	-
10	.31459	46.7 pk	10.9	0	57.6	59.8	49.8	-	-	-	-
				Margin [dB]		-2.2	7.8	-	-	-	-
11	.39995	44.06 pk	10.7	0	54.76	57.9	47.9	-	-	-	-
				Margin [dB]		-3.14	6.86	-	-	-	-
12	.63885	35.03 pk	10.5	0	45.53	56	46	-	-	-	-
				Margin [dB]		-10.47	-1.47	-	-	-	-
13	.8672	31.76 pk	10.5	0	42.26	56	46	-	-	-	-
				Margin [dB]		-13.74	-3.74	-	-	-	-

Neutral 1 - 30MHz -----											
14	1.13343	33.1 pk	10.4	0	43.5	56	46	-	-	-	-
				Margin [dB]		-12.5	-2.5	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 16 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16649	43.25 qp	11.9	0	55.15	65.1	55.1	-	-	-	-
			Margin [dB]:		-9.95	.05	-	-	-	-
.22465	41.86 qp	11.3	0	53.16	62.6	52.6	-	-	-	-
			Margin [dB]:		-9.44	.56	-	-	-	-
.29317	41.16 qp	10.9	0	52.06	60.4	50.4	-	-	-	-
			Margin [dB]:		-8.34	1.66	-	-	-	-
.3855	40.34 qp	10.7	0	51.04	58.2	48.2	-	-	-	-
			Margin [dB]:		-7.16	2.84	-	-	-	-
.5642	33.56 qp	10.5	0	44.06	56	46	-	-	-	-
			Margin [dB]:		-11.94	-1.94	-	-	-	-
.79545	25.56 qp	10.4	0	35.96	56	46	-	-	-	-
			Margin [dB]:		-20.04	-10.04	-	-	-	-
Line - L1 1 - 30MHz										
1.15663	27.84 qp	10.4	0	38.24	56	46	-	-	-	-
			Margin [dB]:		-17.76	-7.76	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 17 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

Neutral .15 - 1MHz										
.17602	42.59 qp	11.8	0	54.39	64.7	54.7	-	-	-	-
			Margin [dB]:		-10.31	-.31	-	-	-	-
.24182	42.34 qp	11.2	0	53.54	62	52	-	-	-	-
			Margin [dB]:		-8.46	1.54	-	-	-	-
.31459	41.09 qp	10.9	0	51.99	59.8	49.8	-	-	-	-
			Margin [dB]:		-7.81	2.19	-	-	-	-
.39995	39.68 qp	10.7	0	50.38	57.9	47.9	-	-	-	-
			Margin [dB]:		-7.52	2.48	-	-	-	-
.63885	30.49 qp	10.5	0	40.99	56	46	-	-	-	-
			Margin [dB]:		-15.01	-5.01	-	-	-	-
.8672	26.32 qp	10.5	0	36.82	56	46	-	-	-	-
			Margin [dB]:		-19.18	-9.18	-	-	-	-
Neutral 1 - 30MHz										
1.13343	28.06 qp	10.4	0	38.46	56	46	-	-	-	-
			Margin [dB]:		-17.54	-7.54	-	-	-	-

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 15C 15.207 QP
- LIMIT 2: FCC Part 15C 15.207 Ave
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 18 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16649	21.56 AV	11.9	0	33.46	65.1	55.1	-	-	-	-
			Margin [dB]:		-31.64	-21.64	-	-	-	-
.22465	20.68 AV	11.3	0	31.98	62.6	52.6	-	-	-	-
			Margin [dB]:		-30.62	-20.62	-	-	-	-
.29317	21.03 AV	10.9	0	31.93	60.4	50.4	-	-	-	-
			Margin [dB]:		-28.47	-18.47	-	-	-	-
.3855	21.17 AV	10.7	0	31.87	58.2	48.2	-	-	-	-
			Margin [dB]:		-26.33	-16.33	-	-	-	-
.5642	17.77 AV	10.5	0	28.27	56	46	-	-	-	-
			Margin [dB]:		-27.73	-17.73	-	-	-	-
.79545	10.62 AV	10.4	0	21.02	56	46	-	-	-	-
			Margin [dB]:		-34.98	-24.98	-	-	-	-
Line - L1 1 - 30MHz										
1.15663	12.86 AV	10.4	0	23.26	56	46	-	-	-	-
			Margin [dB]:		-32.74	-22.74	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	[dB(uVolts)]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Neutral .15 - 1MHz										
.17602	20.6 AV	11.8	0	32.4	64.7	54.7	-	-	-	-
			Margin [dB]:		-32.3	-22.3	-	-	-	-
.24182	20.61 AV	11.2	0	31.81	62	52	-	-	-	-
			Margin [dB]:		-30.19	-20.19	-	-	-	-
.31459	20.27 AV	10.9	0	31.17	59.8	49.8	-	-	-	-
			Margin [dB]:		-28.63	-18.63	-	-	-	-
.39995	19.6 AV	10.7	0	30.3	57.9	47.9	-	-	-	-
			Margin [dB]:		-27.6	-17.6	-	-	-	-
.63885	13.37 AV	10.5	0	23.87	56	46	-	-	-	-
			Margin [dB]:		-32.13	-22.13	-	-	-	-
.8672	7.14 AV	10.5	0	17.64	56	46	-	-	-	-
			Margin [dB]:		-38.36	-28.36	-	-	-	-
Neutral 1 - 30MHz										
1.13343	10.22 AV	10.4	0	20.62	56	46	-	-	-	-
			Margin [dB]:		-35.38	-25.38	-	-	-	-

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 15C 15.207 QP
- LIMIT 2: FCC Part 15C 15.207 Ave
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

Figure 3 Conducted Emissions Graph

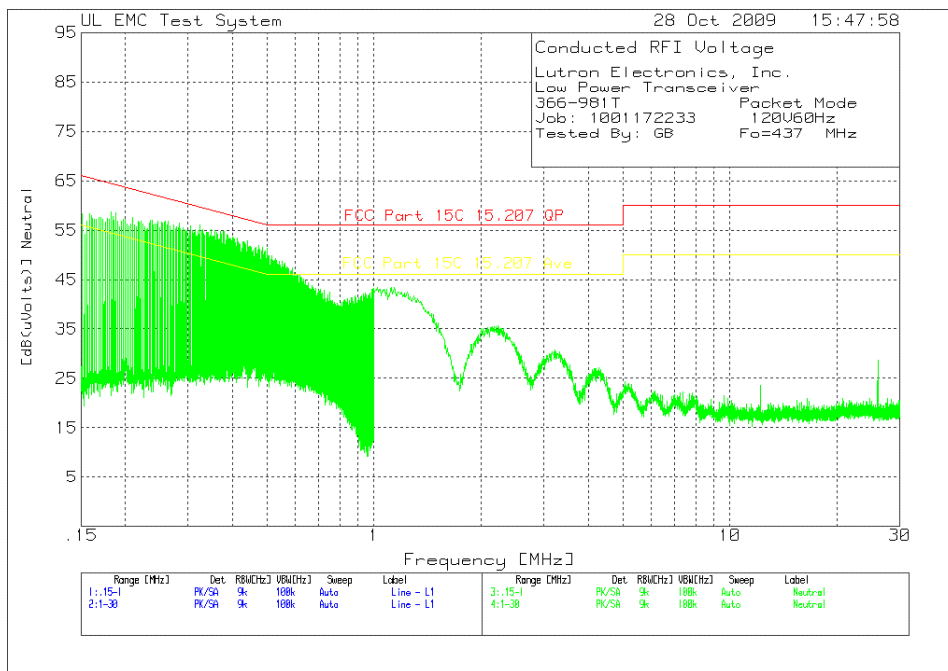
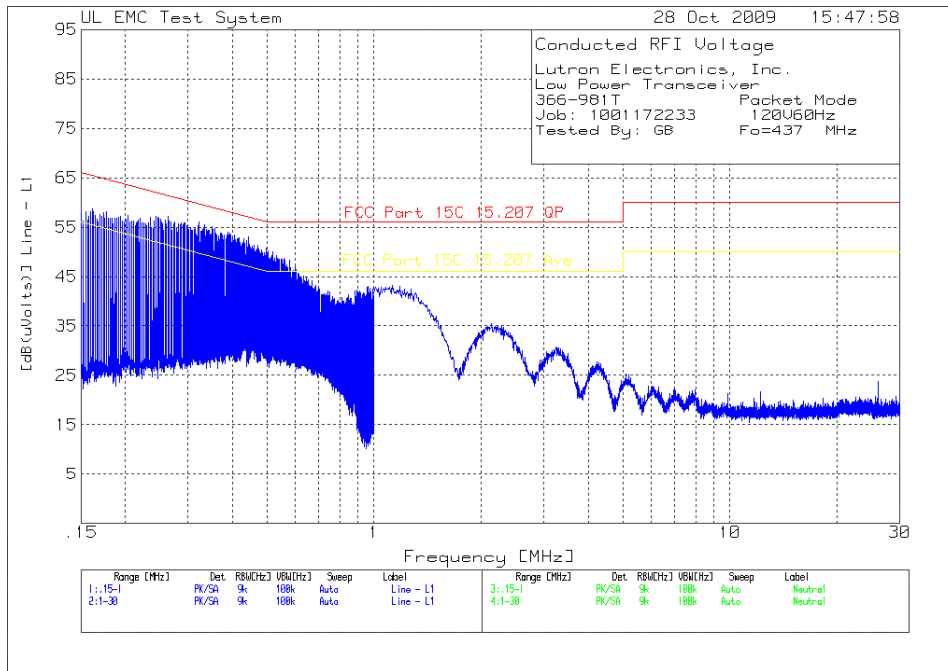


Table 4 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=437 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	.16207	46.76 pk	12	0	58.76	65.4	55.4	-	-	-	-
				Margin [dB]		-6.64	3.36	-	-	-	-
2	.22516	44.5 pk	11.3	0	55.8	62.6	52.6	-	-	-	-
				Margin [dB]		-6.8	3.2	-	-	-	-
3	.30456	44.03 pk	10.9	0	54.93	60.1	50.1	-	-	-	-
				Margin [dB]		-5.17	4.83	-	-	-	-
4	.43073	42.05 pk	10.6	0	52.65	57.2	47.2	-	-	-	-
				Margin [dB]		-4.55	5.45	-	-	-	-
5	.57866	37.9 pk	10.5	0	48.4	56	46	-	-	-	-
				Margin [dB]		-7.6	2.4	-	-	-	-
6	.75022	31.3 pk	10.5	0	41.8	56	46	-	-	-	-
				Margin [dB]		-14.2	-4.2	-	-	-	-
7	.92587	30.97 pk	10.4	0	41.37	56	46	-	-	-	-
				Margin [dB]		-14.63	-4.63	-	-	-	-

Line - L1	1	-	30MHz	-----							
8	1.12763	32.8 pk	10.4	0	43.2	56	46	-	-	-	-
				Margin [dB]		-12.8	-2.8	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

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
=====											
Neutral .15 - 1MHz -----											
9	.16836	45.69 pk	11.9	0	57.59	65	55	-	-	-	-
				Margin [dB]		-7.41	2.59	-	-	-	-
10	.21682	45.5 pk	11.3	0	56.8	62.9	52.9	-	-	-	-
				Margin [dB]		-6.1	3.9	-	-	-	-
11	.32003	43.88 pk	10.8	0	54.68	59.7	49.7	-	-	-	-
				Margin [dB]		-5.02	4.98	-	-	-	-
12	.4025	42.72 pk	10.7	0	53.42	57.8	47.8	-	-	-	-
				Margin [dB]		-4.38	5.62	-	-	-	-
13	.6079	35.63 pk	10.5	0	46.13	56	46	-	-	-	-
				Margin [dB]		-9.87	.13	-	-	-	-
14	.77556	29.89 pk	10.5	0	40.39	56	46	-	-	-	-
				Margin [dB]		-15.61	-5.61	-	-	-	-
15	.94185	31.78 pk	10.5	0	42.28	56	46	-	-	-	-
				Margin [dB]		-13.72	-3.72	-	-	-	-

Neutral 1 - 30MHz -----											
16	1.13923	32.96 pk	10.4	0	43.36	56	46	-	-	-	-
				Margin [dB]		-12.64	-2.64	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 23 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16207	43.37 qp	12	0	55.37	65.4	55.4	-	-	-	-
			Margin [dB]:		-10.03	-0.03	-	-	-	-
.22516	42.09 qp	11.3	0	53.39	62.6	52.6	-	-	-	-
			Margin [dB]:		-9.21	.79	-	-	-	-
.30456	40.83 qp	10.9	0	51.73	60.1	50.1	-	-	-	-
			Margin [dB]:		-8.37	1.63	-	-	-	-
.43073	38.4 qp	10.6	0	49	57.2	47.2	-	-	-	-
			Margin [dB]:		-8.2	1.8	-	-	-	-
.57866	32.6 qp	10.5	0	43.1	56	46	-	-	-	-
			Margin [dB]:		-12.9	-2.9	-	-	-	-
.75022	26.34 qp	10.5	0	36.84	56	46	-	-	-	-
			Margin [dB]:		-19.16	-9.16	-	-	-	-
.92587	26.52 qp	10.4	0	36.92	56	46	-	-	-	-
			Margin [dB]:		-19.08	-9.08	-	-	-	-
Line - L1 1 - 30MHz										
1.12763	28.01 qp	10.4	0	38.41	56	46	-	-	-	-
			Margin [dB]:		-17.59	-7.59	-	-	-	-

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 15C 15.207 QP
- LIMIT 2: FCC Part 15C 15.207 Ave
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 24 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.16836	42.05	QP	11.9	0	53.95	65	55	-	-	-
				Margin [dB]:	-11.05	-1.05	-	-	-	-
.21682	42.18	QP	11.3	0	53.48	62.9	52.9	-	-	-
				Margin [dB]:	-9.42	.58	-	-	-	-
.32003	41.16	QP	10.8	0	51.96	59.7	49.7	-	-	-
				Margin [dB]:	-7.74	2.26	-	-	-	-
.4025	39.82	QP	10.7	0	50.52	57.8	47.8	-	-	-
				Margin [dB]:	-7.28	2.72	-	-	-	-
.6079	32.12	QP	10.5	0	42.62	56	46	-	-	-
				Margin [dB]:	-13.38	-3.38	-	-	-	-
.77556	26.03	QP	10.5	0	36.53	56	46	-	-	-
				Margin [dB]:	-19.47	-9.47	-	-	-	-
.94185	27.71	QP	10.5	0	38.21	56	46	-	-	-
				Margin [dB]:	-17.79	-7.79	-	-	-	-
Neutral 1 - 30MHz										
1.13923	28.13	QP	10.4	0	38.53	56	46	-	-	-
				Margin [dB]:	-17.47	-7.47	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16207	22.02 AV	12	0	34.02	65.4	55.4	-	-	-	-
			Margin [dB]:		-31.38	-21.38	-	-	-	-
.22516	20.59 AV	11.3	0	31.89	62.6	52.6	-	-	-	-
			Margin [dB]:		-30.71	-20.71	-	-	-	-
.30456	20.58 AV	10.9	0	31.48	60.1	50.1	-	-	-	-
			Margin [dB]:		-28.62	-18.62	-	-	-	-
.43073	20.81 AV	10.6	0	31.41	57.2	47.2	-	-	-	-
			Margin [dB]:		-25.79	-15.79	-	-	-	-
.57866	16.89 AV	10.5	0	27.39	56	46	-	-	-	-
			Margin [dB]:		-28.61	-18.61	-	-	-	-
.75022	12.09 AV	10.5	0	22.59	56	46	-	-	-	-
			Margin [dB]:		-33.41	-23.41	-	-	-	-
.92587	6.09 AV	10.4	0	16.49	56	46	-	-	-	-
			Margin [dB]:		-39.51	-29.51	-	-	-	-
Line - L1 1 - 30MHz										
1.12763	12.09 AV	10.4	0	22.49	56	46	-	-	-	-
			Margin [dB]:		-33.51	-23.51	-	-	-	-

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 15C 15.207 QP
- LIMIT 2: FCC Part 15C 15.207 Ave
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

Job Number: 1001172233 File Number: MC15896 Page 26 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

Neutral .15 - 1MHz										
.16836	20.04 AV	11.9	0	31.94	65	55	-	-	-	-
			Margin [dB]:		-33.06	-23.06	-	-	-	-
.21682	20.42 AV	11.3	0	31.72	62.9	52.9	-	-	-	-
			Margin [dB]:		-31.18	-21.18	-	-	-	-
.32003	20.47 AV	10.8	0	31.27	59.7	49.7	-	-	-	-
			Margin [dB]:		-28.43	-18.43	-	-	-	-
.4025	19.63 AV	10.7	0	30.33	57.8	47.8	-	-	-	-
			Margin [dB]:		-27.47	-17.47	-	-	-	-
.6079	14.29 AV	10.5	0	24.79	56	46	-	-	-	-
			Margin [dB]:		-31.21	-21.21	-	-	-	-
.77556	9.79 AV	10.5	0	20.29	56	46	-	-	-	-
			Margin [dB]:		-35.71	-25.71	-	-	-	-
.94185	5.54 AV	10.5	0	16.04	56	46	-	-	-	-
			Margin [dB]:		-39.96	-29.96	-	-	-	-
Neutral 1 - 30MHz										
1.13923	10.54 AV	10.4	0	20.94	56	46	-	-	-	-
			Margin [dB]:		-35.06	-25.06	-	-	-	-

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 15C 15.207 QP
 LIMIT 2: FCC Part 15C 15.207 Ave
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

Figure 4 Conducted Emissions Graph

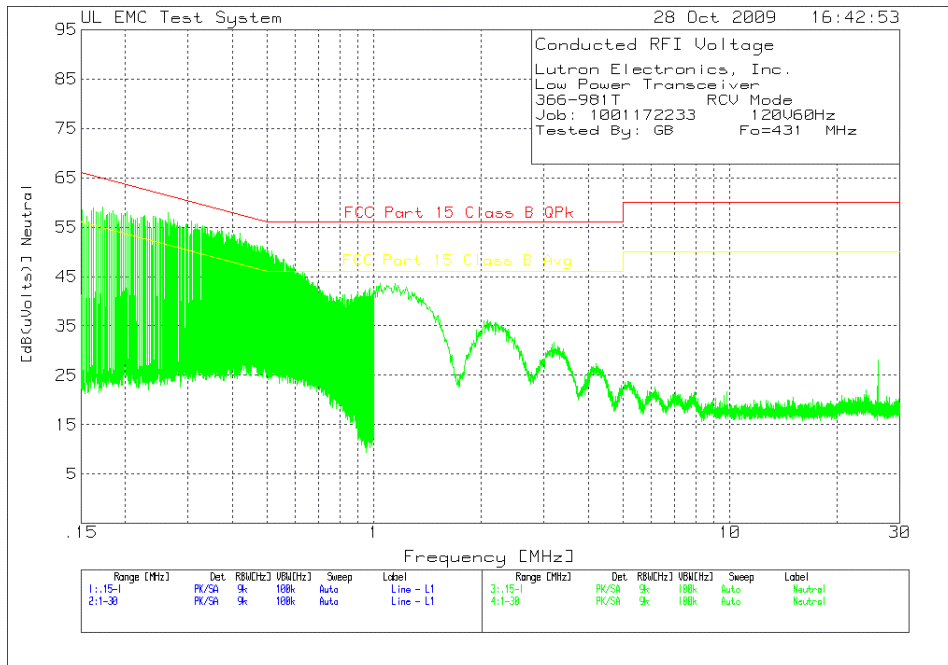
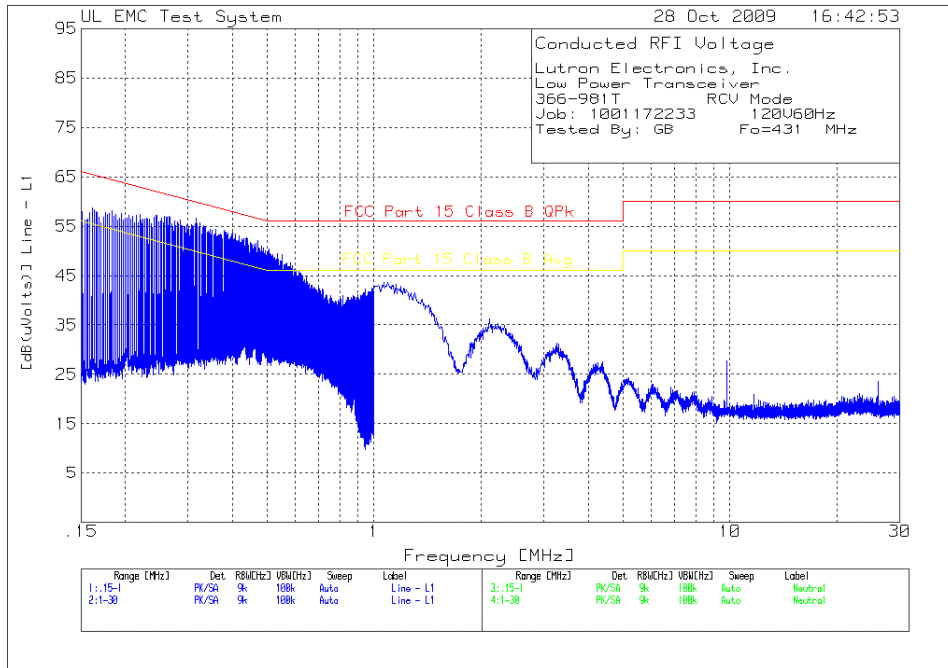


Table 5 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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	.16139	46.72 pk	12	0	58.72	65.4	55.4	-	-	-	-
				Margin [dB]		-6.68	3.32	-	-	-	-
2	.20492	45.79 pk	11.4	0	57.19	63.4	53.4	-	-	-	-
				Margin [dB]		-6.21	3.79	-	-	-	-
3	.25797	45.86 pk	11.1	0	56.96	61.5	51.5	-	-	-	-
				Margin [dB]		-4.54	5.46	-	-	-	-
4	.32463	44.8 pk	10.8	0	55.6	59.6	49.6	-	-	-	-
				Margin [dB]		-4	6	-	-	-	-
5	.43124	41.96 pk	10.6	0	52.56	57.2	47.2	-	-	-	-
				Margin [dB]		-4.64	5.36	-	-	-	-
6	.60739	34.5 pk	10.5	0	45	56	46	-	-	-	-
				Margin [dB]		-11	-1	-	-	-	-
7	.82946	29.24 pk	10.4	0	39.64	56	46	-	-	-	-
				Margin [dB]		-16.36	-6.36	-	-	-	-

Line - L1	1	-	30MHz	-----							
8	1.09282	33.25 pk	10.4	0	43.65	56	46	-	-	-	-
				Margin [dB]		-12.35	-2.35	-	-	-	-

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: 1001172233 File Number: MC15896 Page 29 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

Neutral .15 - 1MHz -----											
9	.17262	47.23 pk	11.8	0	59.03	64.8	54.8	-	-	-	-
				Margin [dB]		-5.77	4.23	-	-	-	-
10	.21631	45.49 pk	11.3	0	56.79	63	53	-	-	-	-
				Margin [dB]		-6.21	3.79	-	-	-	-
11	.28093	45.06 pk	11	0	56.06	60.8	50.8	-	-	-	-
				Margin [dB]		-4.74	5.26	-	-	-	-
12	.36373	43.59 pk	10.7	0	54.29	58.6	48.6	-	-	-	-
				Margin [dB]		-4.31	5.69	-	-	-	-
13	.48599	40.61 pk	10.6	0	51.21	56.2	46.2	-	-	-	-
				Margin [dB]		-4.99	5.01	-	-	-	-
14	.57526	36.51 pk	10.5	0	47.01	56	46	-	-	-	-
				Margin [dB]		-8.99	1.01	-	-	-	-
15	.84442	29.97 pk	10.5	0	40.47	56	46	-	-	-	-
				Margin [dB]		-15.53	-5.53	-	-	-	-

Neutral 1 - 30MHz -----											
16	1.14503	33.21 pk	10.4	0	43.61	56	46	-	-	-	-
				Margin [dB]		-12.39	-2.39	-	-	-	-

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: 1001172233 File Number: MC15896 Page 30 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16139	43.33 qp	12	0	55.33	65.4	55.4	-	-	-	-
			Margin [dB]:		-10.07	-.07	-	-	-	-
.20492	42.15 qp	11.4	0	53.55	63.4	53.4	-	-	-	-
			Margin [dB]:		-9.85	.15	-	-	-	-
.25797	42.62 qp	11.1	0	53.72	61.5	51.5	-	-	-	-
			Margin [dB]:		-7.78	2.22	-	-	-	-
.32463	40.34 qp	10.8	0	51.14	59.6	49.6	-	-	-	-
			Margin [dB]:		-8.46	1.54	-	-	-	-
.43124	37.96 qp	10.6	0	48.56	57.2	47.2	-	-	-	-
			Margin [dB]:		-8.64	1.36	-	-	-	-
.60739	31.83 qp	10.5	0	42.33	56	46	-	-	-	-
			Margin [dB]:		-13.67	-3.67	-	-	-	-
.82946	25.7 qp	10.4	0	36.1	56	46	-	-	-	-
			Margin [dB]:		-19.9	-9.9	-	-	-	-
Line - L1 1 - 30MHz										
1.09282	28.08 qp	10.4	0	38.48	56	46	-	-	-	-
			Margin [dB]:		-17.52	-7.52	-	-	-	-

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: 1001172233 File Number: MC15896 Page 31 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.17262	42.32	QP	11.8	0	54.12	64.8	54.8	-	-	-
				Margin [dB]:		-10.68	-.68	-	-	-
.21631	42.32	QP	11.3	0	53.62	63	53	-	-	-
				Margin [dB]:		-9.38	.62	-	-	-
.28093	42.22	QP	11	0	53.22	60.8	50.8	-	-	-
				Margin [dB]:		-7.58	2.42	-	-	-
.36373	39.79	QP	10.7	0	50.49	58.6	48.6	-	-	-
				Margin [dB]:		-8.11	1.89	-	-	-
.48599	36.51	QP	10.6	0	47.11	56.2	46.2	-	-	-
				Margin [dB]:		-9.09	.91	-	-	-
.57526	32.86	QP	10.5	0	43.36	56	46	-	-	-
				Margin [dB]:		-12.64	-2.64	-	-	-
.84442	25.82	QP	10.5	0	36.32	56	46	-	-	-
				Margin [dB]:		-19.68	-9.68	-	-	-
Neutral 1 - 30MHz										
1.14503	28.19	QP	10.4	0	38.59	56	46	-	-	-
				Margin [dB]:		-17.41	-7.41	-	-	-

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

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16139	21.82 AV	12	0	33.82	65.4	55.4	-	-	-	-
			Margin [dB]:		-31.58	-21.58	-	-	-	-
.20492	20.97 AV	11.4	0	32.37	63.4	53.4	-	-	-	-
			Margin [dB]:		-31.03	-21.03	-	-	-	-
.25797	20.6 AV	11.1	0	31.7	61.5	51.5	-	-	-	-
			Margin [dB]:		-29.8	-19.8	-	-	-	-
.32463	21.05 AV	10.8	0	31.85	59.6	49.6	-	-	-	-
			Margin [dB]:		-27.75	-17.75	-	-	-	-
.43124	20.56 AV	10.6	0	31.16	57.2	47.2	-	-	-	-
			Margin [dB]:		-26.04	-16.04	-	-	-	-
.60739	15.86 AV	10.5	0	26.36	56	46	-	-	-	-
			Margin [dB]:		-29.64	-19.64	-	-	-	-
.82946	9.48 AV	10.4	0	19.88	56	46	-	-	-	-
			Margin [dB]:		-36.12	-26.12	-	-	-	-
Line - L1 1 - 30MHz										
1.09282	11.14 AV	10.4	0	21.54	56	46	-	-	-	-
			Margin [dB]:		-34.46	-24.46	-	-	-	-

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: 1001172233 File Number: MC15896 Page 33 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.17262	20.49 AV	11.8	0	32.29	64.8	54.8	-	-	-	-
			Margin [dB]:		-32.51	-22.51	-	-	-	-
.21631	20.45 AV	11.3	0	31.75	63	53	-	-	-	-
			Margin [dB]:		-31.25	-21.25	-	-	-	-
.28093	20.47 AV	11	0	31.47	60.8	50.8	-	-	-	-
			Margin [dB]:		-29.33	-19.33	-	-	-	-
.36373	18.9 AV	10.7	0	29.6	58.6	48.6	-	-	-	-
			Margin [dB]:		-29	-19	-	-	-	-
.48599	17.71 AV	10.6	0	28.31	56.2	46.2	-	-	-	-
			Margin [dB]:		-27.89	-17.89	-	-	-	-
.57526	15.01 AV	10.5	0	25.51	56	46	-	-	-	-
			Margin [dB]:		-30.49	-20.49	-	-	-	-
.84442	7.47 AV	10.5	0	17.97	56	46	-	-	-	-
			Margin [dB]:		-38.03	-28.03	-	-	-	-
Neutral 1 - 30MHz										
1.14503	10.54 AV	10.4	0	20.94	56	46	-	-	-	-
			Margin [dB]:		-35.06	-25.06	-	-	-	-

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

Figure 5 Conducted Emissions Graph

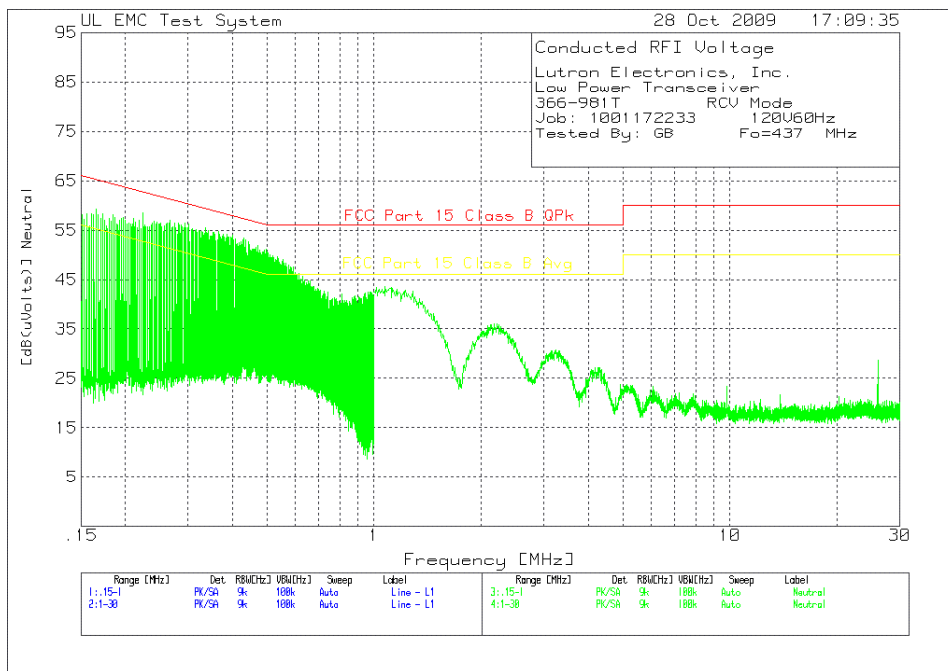
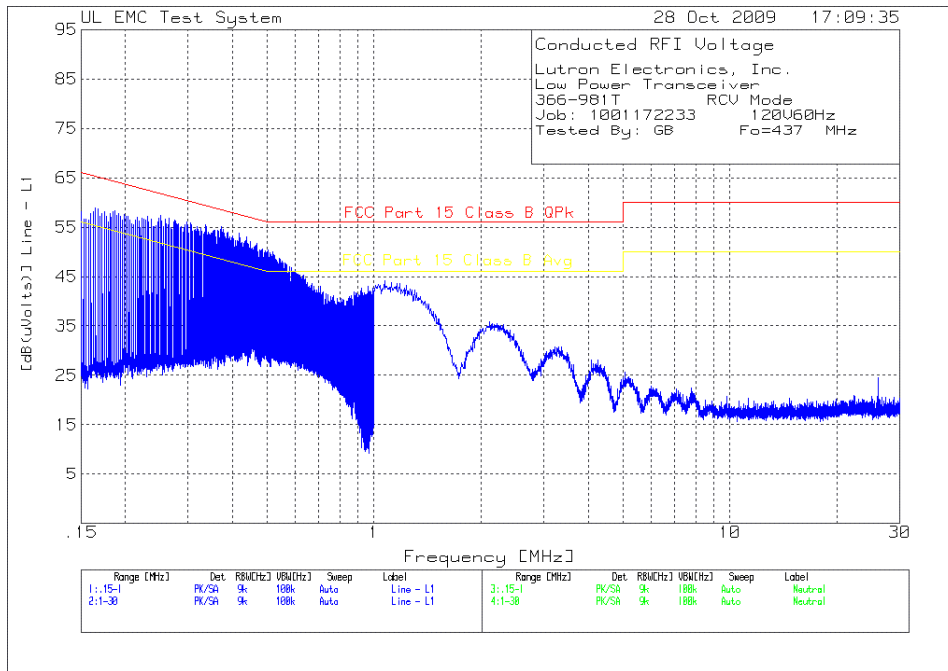


Table 6 Conducted Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=437 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	.16496	46.97 pk	11.9	0	58.87	65.2	55.2	-	-	-	-
				Margin [dB]		-6.33	3.67	-	-	-	-
2	.1988	46.15 pk	11.5	0	57.65	63.7	53.7	-	-	-	-
				Margin [dB]		-6.05	3.95	-	-	-	-
3	.25117	46.3 pk	11.1	0	57.4	61.7	51.7	-	-	-	-
				Margin [dB]		-4.3	5.7	-	-	-	-
4	.35778	43.67 pk	10.7	0	54.37	58.8	48.8	-	-	-	-
				Margin [dB]		-4.43	5.57	-	-	-	-
5	.57781	36.44 pk	10.5	0	46.94	56	46	-	-	-	-
				Margin [dB]		-9.06	.94	-	-	-	-
6	.84085	29.69 pk	10.4	0	40.09	56	46	-	-	-	-
				Margin [dB]		-15.91	-5.91	-	-	-	-
7	.99354	32.31 pk	10.4	0	42.71	56	46	-	-	-	-
				Margin [dB]		-13.29	-3.29	-	-	-	-
Line - L1 1 - 30MHz											
8	1.10442	32.34 pk	10.4	0	42.74	56	46	-	-	-	-
				Margin [dB]		-13.26	-3.26	-	-	-	-

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

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

Neutral .15 - 1MHz -----											
9	.17279	46.54 pk	11.8	0	58.34	64.8	54.8	-	-	-	-
				Margin [dB]		-6.46	3.54	-	-	-	-
10	.22363	47.2 pk	11.3	0	58.5	62.7	52.7	-	-	-	-
				Margin [dB]		-4.2	5.8	-	-	-	-
11	.26749	45.97 pk	11	0	56.97	61.2	51.2	-	-	-	-
				Margin [dB]		-4.23	5.77	-	-	-	-
12	.40131	43.28 pk	10.7	0	53.98	57.8	47.8	-	-	-	-
				Margin [dB]		-3.82	6.18	-	-	-	-
13	.49704	40.56 pk	10.6	0	51.16	56	46	-	-	-	-
				Margin [dB]		-4.84	5.16	-	-	-	-
14	.70533	32.37 pk	10.5	0	42.87	56	46	-	-	-	-
				Margin [dB]		-13.13	-3.13	-	-	-	-
15	.88353	31.23 pk	10.5	0	41.73	56	46	-	-	-	-
				Margin [dB]		-14.27	-4.27	-	-	-	-

Neutral 1 - 30MHz -----											
16	1.07542	33.14 pk	10.4	0	43.54	56	46	-	-	-	-
				Margin [dB]		-12.46	-2.46	-	-	-	-

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: 1001172233 File Number: MC15896 Page 37 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16496	43.19 qp	11.9	0	55.09	65.2	55.2	-	-	-	-
			Margin [dB]:		-10.11	-.11	-	-	-	-
.1988	42.65 qp	11.5	0	54.15	63.7	53.7	-	-	-	-
			Margin [dB]:		-9.55	.45	-	-	-	-
.25117	42.63 qp	11.1	0	53.73	61.7	51.7	-	-	-	-
			Margin [dB]:		-7.97	2.03	-	-	-	-
.35778	40.2 qp	10.7	0	50.9	58.8	48.8	-	-	-	-
			Margin [dB]:		-7.9	2.1	-	-	-	-
.57781	33.35 qp	10.5	0	43.85	56	46	-	-	-	-
			Margin [dB]:		-12.15	-2.15	-	-	-	-
.84085	25.96 qp	10.4	0	36.36	56	46	-	-	-	-
			Margin [dB]:		-19.64	-9.64	-	-	-	-
.99354	27.73 qp	10.4	0	38.13	56	46	-	-	-	-
			Margin [dB]:		-17.87	-7.87	-	-	-	-
Line - L1 1 - 30MHz										
1.10442	28.27 qp	10.4	0	38.67	56	46	-	-	-	-
			Margin [dB]:		-17.33	-7.33	-	-	-	-

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: 1001172233 File Number: MC15896 Page 38 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.17279	42.96 qp	11.8	0	54.76	64.8	54.8	-	-	-	-
				Margin [dB]:	-10.04	-.04	-	-	-	-
.22363	42.13 qp	11.3	0	53.43	62.7	52.7	-	-	-	-
				Margin [dB]:	-9.27	.73	-	-	-	-
.26749	42.93 qp	11	0	53.93	61.2	51.2	-	-	-	-
				Margin [dB]:	-7.27	2.73	-	-	-	-
.40131	40.27 qp	10.7	0	50.97	57.8	47.8	-	-	-	-
				Margin [dB]:	-6.83	3.17	-	-	-	-
.49704	36.39 qp	10.6	0	46.99	56	46	-	-	-	-
				Margin [dB]:	-9.01	.99	-	-	-	-
.70533	28.26 qp	10.5	0	38.76	56	46	-	-	-	-
				Margin [dB]:	-17.24	-7.24	-	-	-	-
.88353	26.84 qp	10.5	0	37.34	56	46	-	-	-	-
				Margin [dB]:	-18.66	-8.66	-	-	-	-
Neutral 1 - 30MHz										
1.07542	28.1 qp	10.4	0	38.5	56	46	-	-	-	-
				Margin [dB]:	-17.5	-7.5	-	-	-	-

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

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V60Hz
 Tested By: GB Fo=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										
.16496	21.93 AV	11.9	0	33.83	65.2	55.2	-	-	-	-
			Margin [dB]:		-31.37	-21.37	-	-	-	-
.1988	21.84 AV	11.5	0	33.34	63.7	53.7	-	-	-	-
			Margin [dB]:		-30.36	-20.36	-	-	-	-
.25117	20.92 AV	11.1	0	32.02	61.7	51.7	-	-	-	-
			Margin [dB]:		-29.68	-19.68	-	-	-	-
.35778	21.12 AV	10.7	0	31.82	58.8	48.8	-	-	-	-
			Margin [dB]:		-26.98	-16.98	-	-	-	-
.57781	16.96 AV	10.5	0	27.46	56	46	-	-	-	-
			Margin [dB]:		-28.54	-18.54	-	-	-	-
.84085	9.04 AV	10.4	0	19.44	56	46	-	-	-	-
			Margin [dB]:		-36.56	-26.56	-	-	-	-
.99354	7.26 AV	10.4	0	17.66	56	46	-	-	-	-
			Margin [dB]:		-38.34	-28.34	-	-	-	-
Line - L1 1 - 30MHz										
1.10442	11.48 AV	10.4	0	21.88	56	46	-	-	-	-
			Margin [dB]:		-34.12	-24.12	-	-	-	-

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: 1001172233 File Number: MC15896 Page 40 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

Neutral .15 - 1MHz										
.17279	21.37 AV	11.8	0	33.17	64.8	54.8	-	-	-	-
				Margin [dB]:	-31.63	-21.63	-	-	-	-
.22363	20.79 AV	11.3	0	32.09	62.7	52.7	-	-	-	-
				Margin [dB]:	-30.61	-20.61	-	-	-	-
.26749	20.37 AV	11	0	31.37	61.2	51.2	-	-	-	-
				Margin [dB]:	-29.83	-19.83	-	-	-	-
.40131	19.88 AV	10.7	0	30.58	57.8	47.8	-	-	-	-
				Margin [dB]:	-27.22	-17.22	-	-	-	-
.49704	17.16 AV	10.6	0	27.76	56	46	-	-	-	-
				Margin [dB]:	-28.24	-18.24	-	-	-	-
.70533	11.86 AV	10.5	0	22.36	56	46	-	-	-	-
				Margin [dB]:	-33.64	-23.64	-	-	-	-
.88353	7.26 AV	10.5	0	17.76	56	46	-	-	-	-
				Margin [dB]:	-38.24	-28.24	-	-	-	-
Neutral 1 - 30MHz										
1.07542	9.39 AV	10.4	0	19.79	56	46	-	-	-	-
				Margin [dB]:	-36.21	-26.21	-	-	-	-

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 (or equivalent) 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 and RSS-GEN
Occupied Bandwidth Limits	
0.25%Fo	

Table 7 Occupied Bandwidth Configuration Settings

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

Table 8 Occupied Bandwidth Spectrum Analyzer Settings

Resolution Bandwidth (MHz)	Occupied Bandwidth Requirements	
	dBc	%
0.010	-20	99
Supplementary information: None		

Table 9 Occupied Bandwidth Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83III	ME5B-306

Figure 6 Test Setup for Occupied Bandwidth

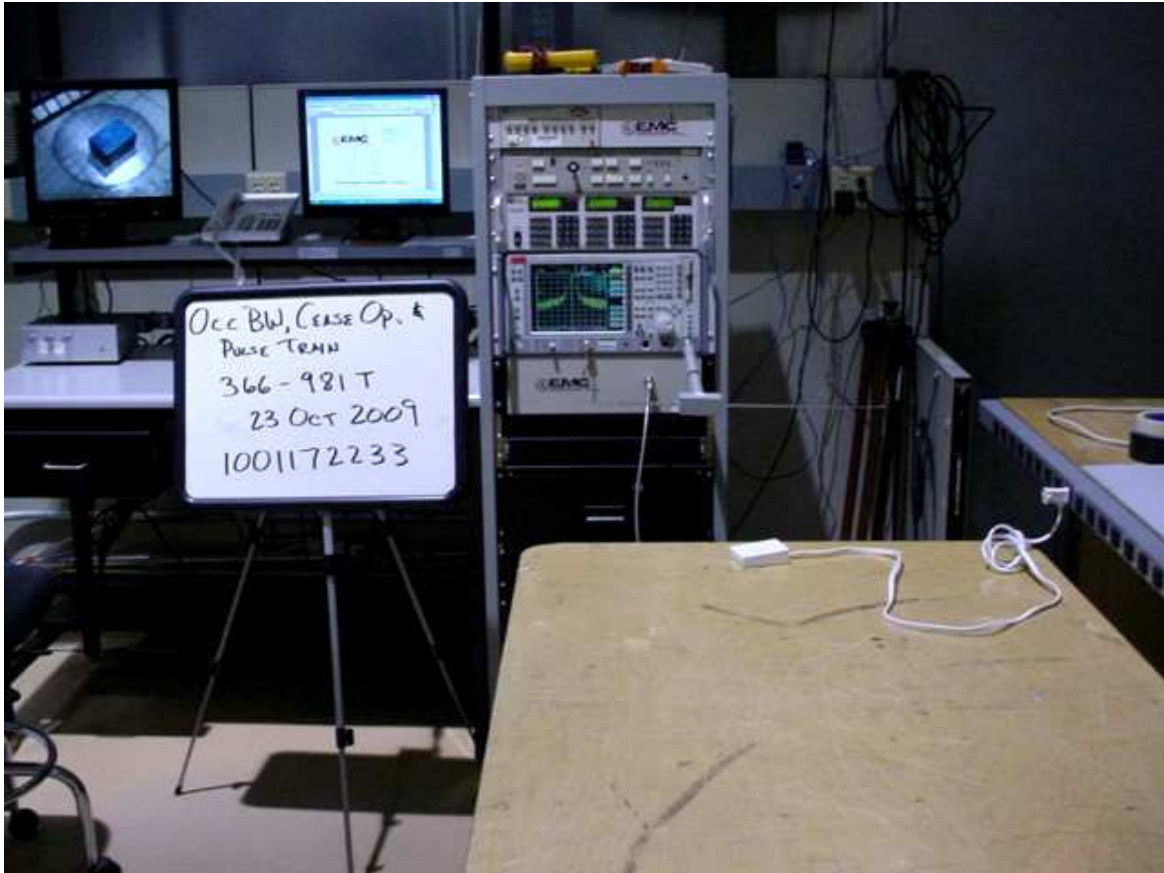


Table 10 Occupied Bandwidth Test Data

Frequency (MHz)	20dB OBW	99% OBW	Limit (MHz)	Result
431	157.9kHz	147.8kHz	1.07	Pass
437	152.8kHz	145.3	1.09	Pass

Figure 7 Occupied Bandwidth Graphs (20dB)

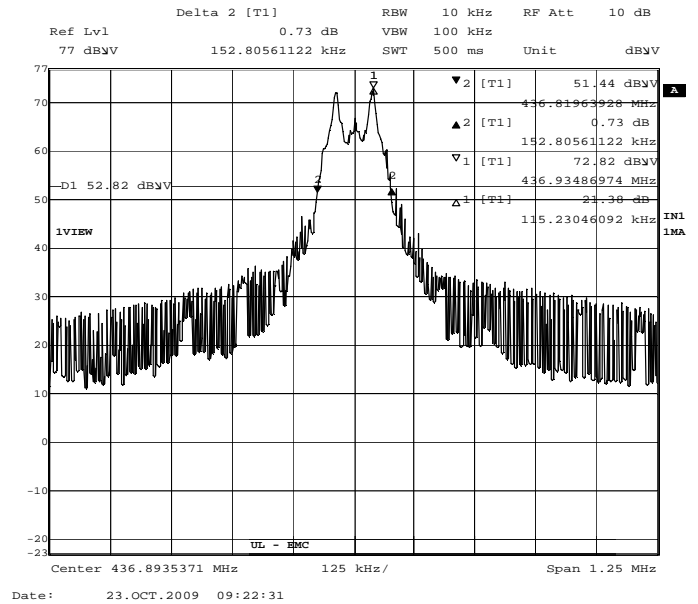
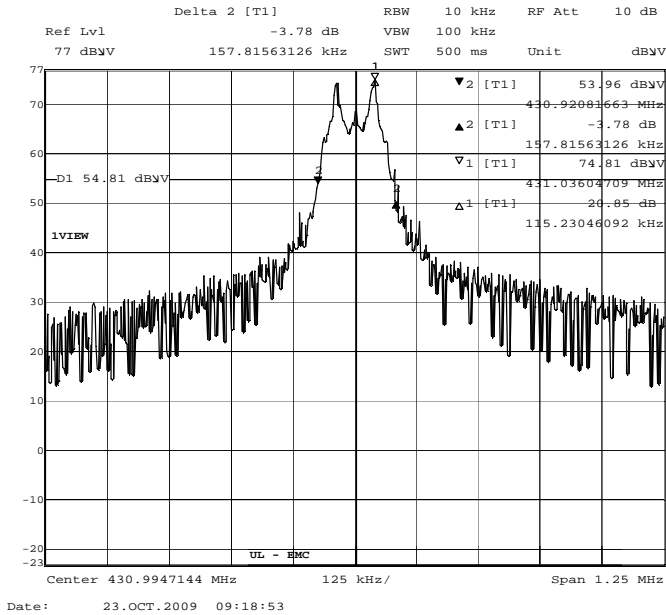
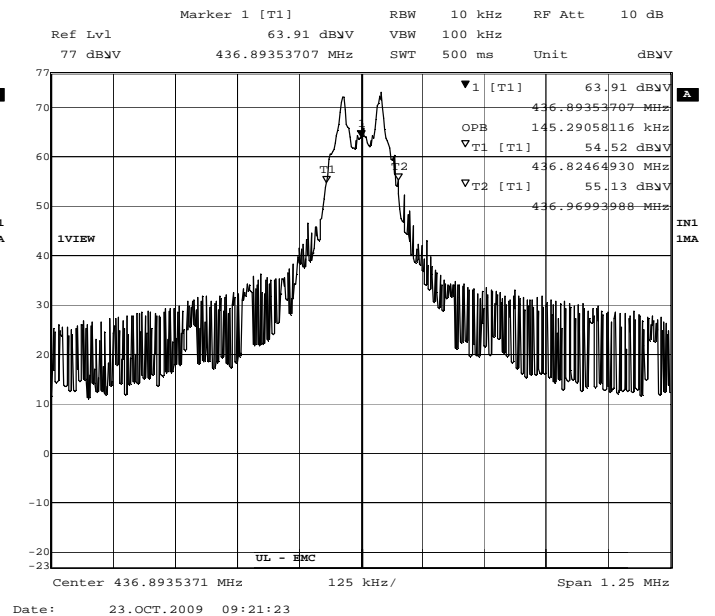
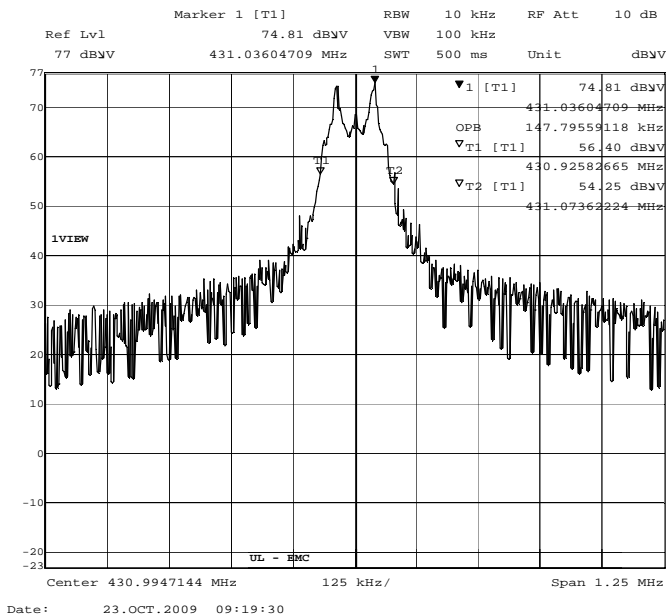


Figure 8 Occupied Bandwidth Graphs (99% Power)



4.3 Test Conditions and Results – CEASE OPERATION

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) 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 and 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	3
Supplementary information: None		

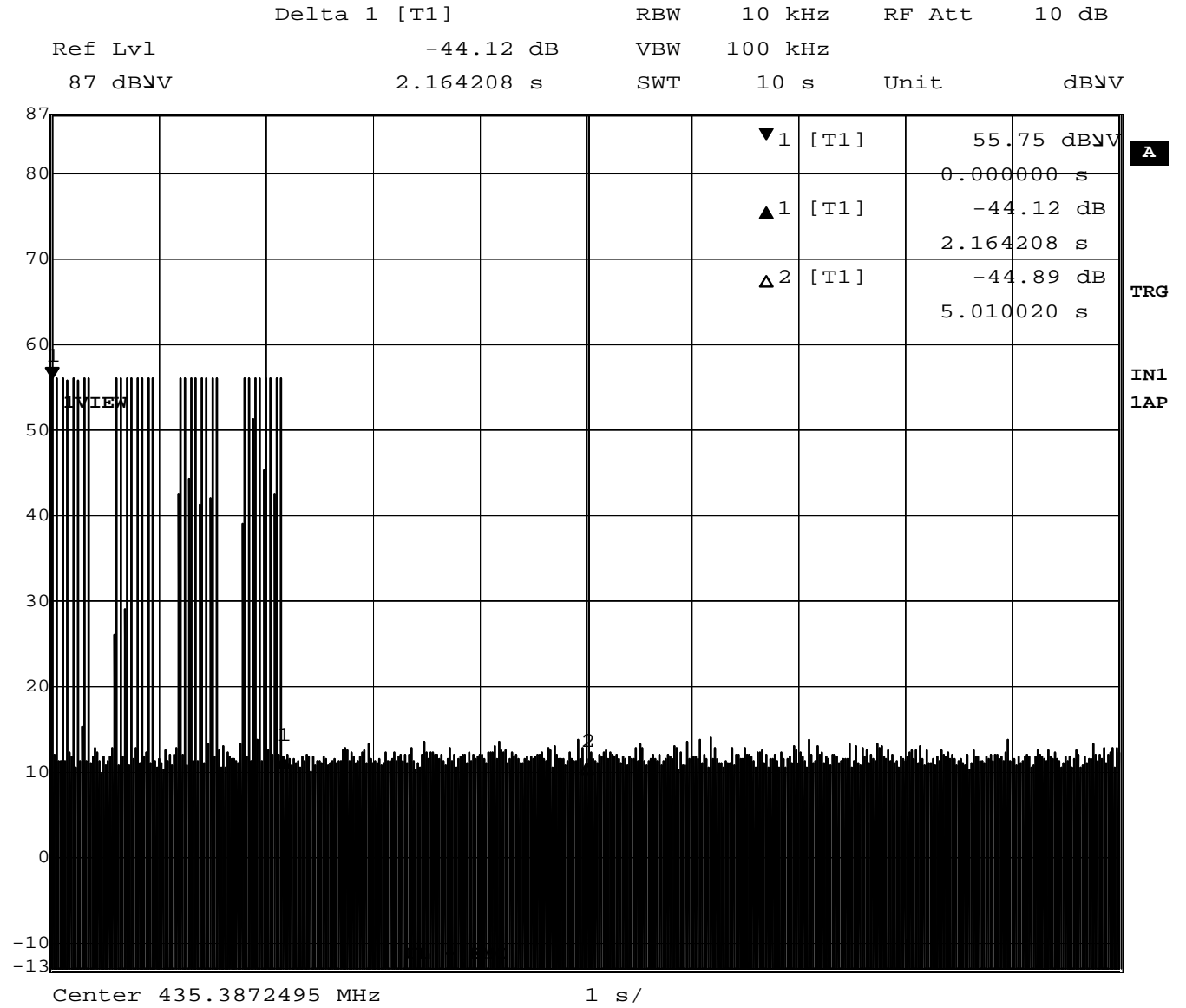
Table 12 Cease Operation Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83III	ME5B-306

Figure 9 Test Setup for Cease Operation



Figure 10 Cease Operation Graph



Date: 23.OCT.2009 08:54:14

4.4 Test Conditions and Results – PULSE TRAIN

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) 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 and RSS-210
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	3
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	100	-20

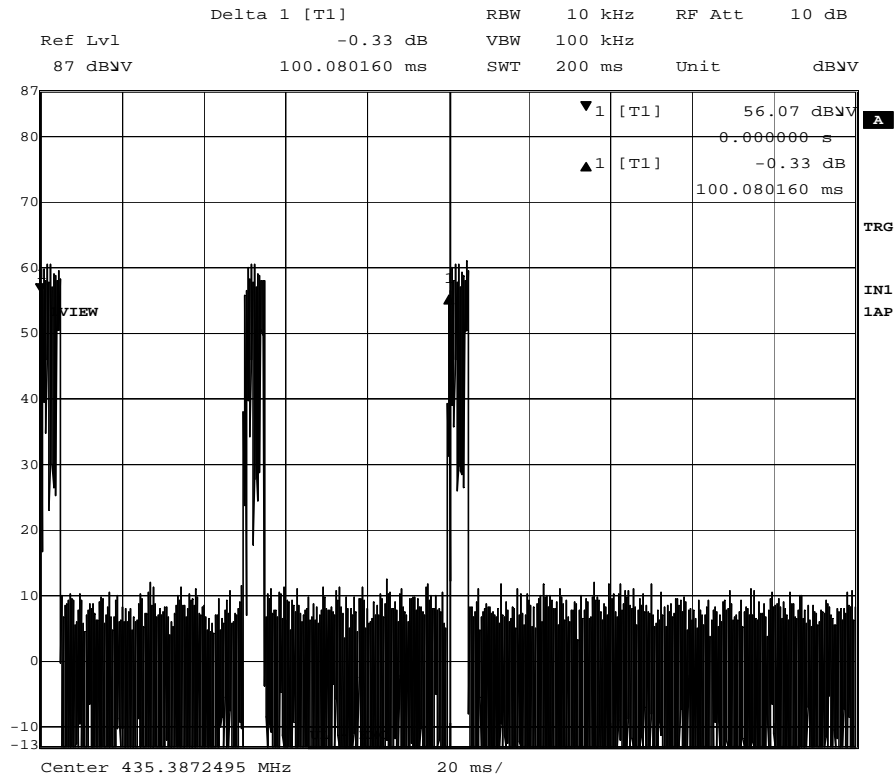
Table 15 Pulse Train Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83III	ME5B-306

Figure 11 Test Setup for Pulse Train

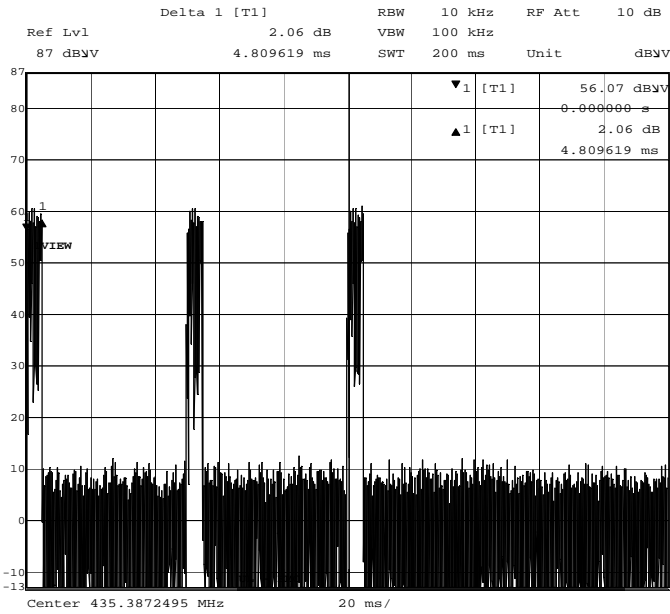


Figure 12 Pulse Train Graph



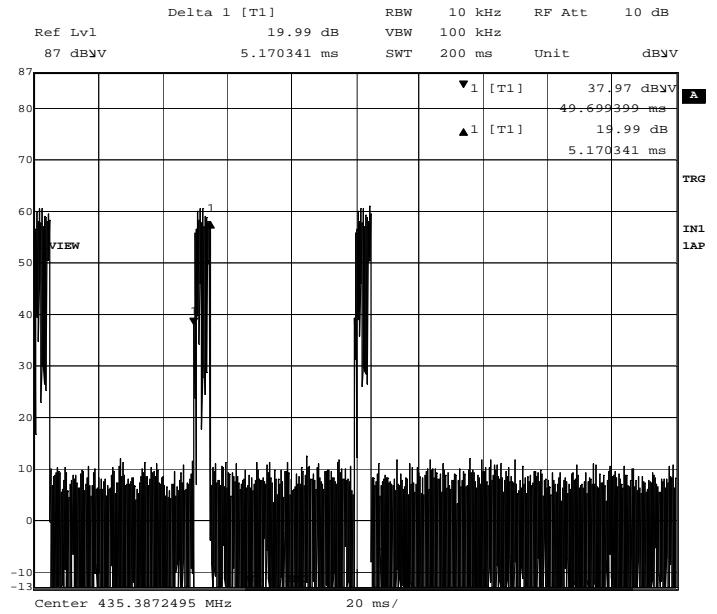
Date: 23.OCT.2009 08:50:15

Pulses in 100mS



Date: 23.OCT.2009 08:44:21

1st Pulse width – 4.8mS



Date: 23.OCT.2009 08:45:41

2nd Pulse width – 5.2mS

Test Conditions and Results – INTENTIONAL RADIATED EMISSIONS

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, 15.231 and RSS-210		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	0.009MHz – 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	-	-
1000-10000	54	-	-
431	-	80.7	-
437	-	80.9	-
431	-	-	60.7
437	-	-	60.9
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits. Below 30MHz only one channel was checked since the fundamental does not appear below 30MHz.			

Table 16 Radiated Emissions EUT Configuration Settings

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

Table 17 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
60Hz-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-306
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Log-P Antenna	Schaffner	UPA6109	44067
Bicon Antenna	Schaffner	VBA6106A	43441
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-306
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

Job Number: 1001172233 File Number: MC15896 Page 52 of 87
Model Number: RRD-3LD
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Test Equipment Used			
Description	Manufacturer	Model	Identifier
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-306

Figure 13 Test setup for Radiated Emissions

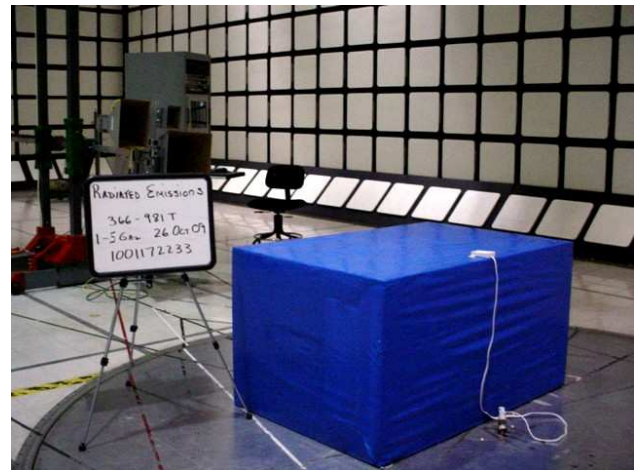
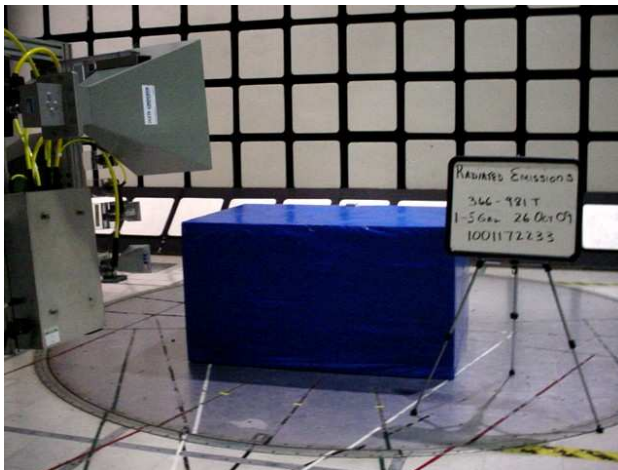
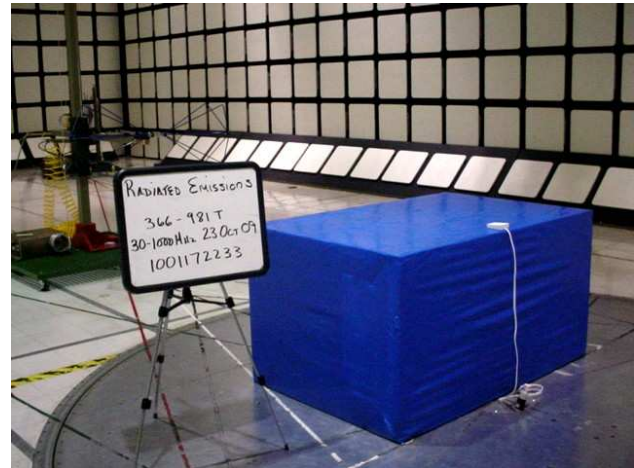
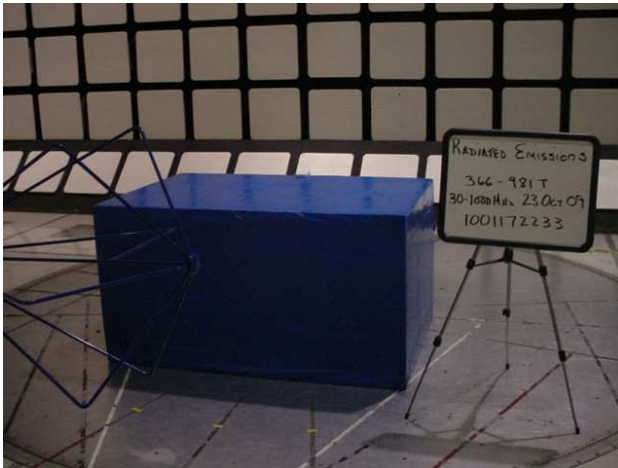
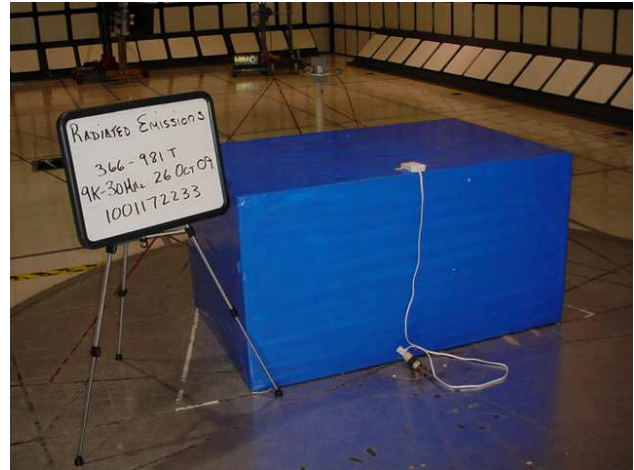
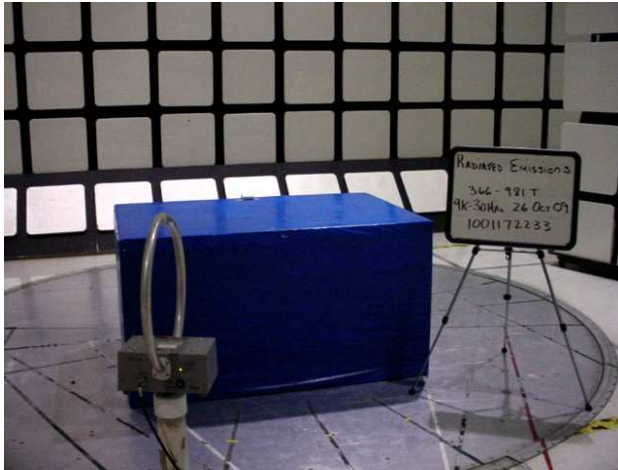


Figure 14 Radiated Emissions Graph (Horizontal)

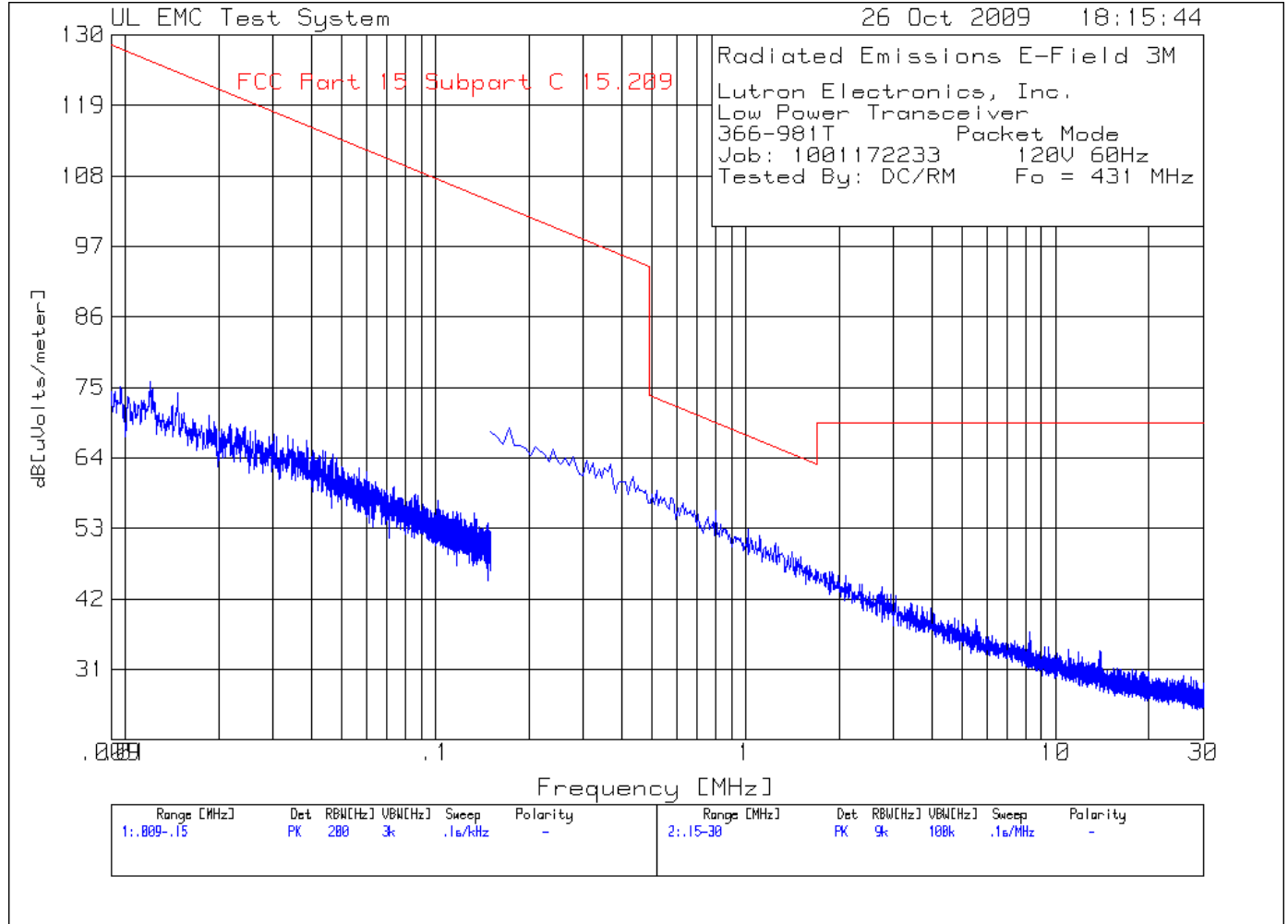


Table 18 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: DC/RM Fo = 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
=====											
Range 1 .009 - .15MHz -----											
1	.0121	45.8 pk	.1	30	75.9	125.9	-	-	-	-	-
	Azimuth:354			Margin [dB]		-50	-	-	-	-	-
2	.01481	45.66 pk	0	28.5	74.16	124.2	-	-	-	-	-
	Azimuth:301			Margin [dB]		-50.04	-	-	-	-	-
Range 2 .15 - 30MHz -----											
3	.17239	51.22 pk	0	17.5	68.72	102.9	-	-	-	-	-
	Azimuth:336			Margin [dB]		-34.18	-	-	-	-	-
4	.43365	43.81 pk	0	17.2	61.01	94.9	-	-	-	-	-
	Azimuth:5			Margin [dB]		-33.89	-	-	-	-	-
5	1.01587	36.17 pk	0	16.7	52.87	67.5	-	-	-	-	-
	Azimuth:5			Margin [dB]		-14.63	-	-	-	-	-
6	14.01133	15.97 pk	.2	17.6	33.77	69.5	-	-	-	-	-
	Azimuth:1			Margin [dB]		-35.73	-	-	-	-	-

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 - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 15 Radiated Emissions Graph (Vertical)

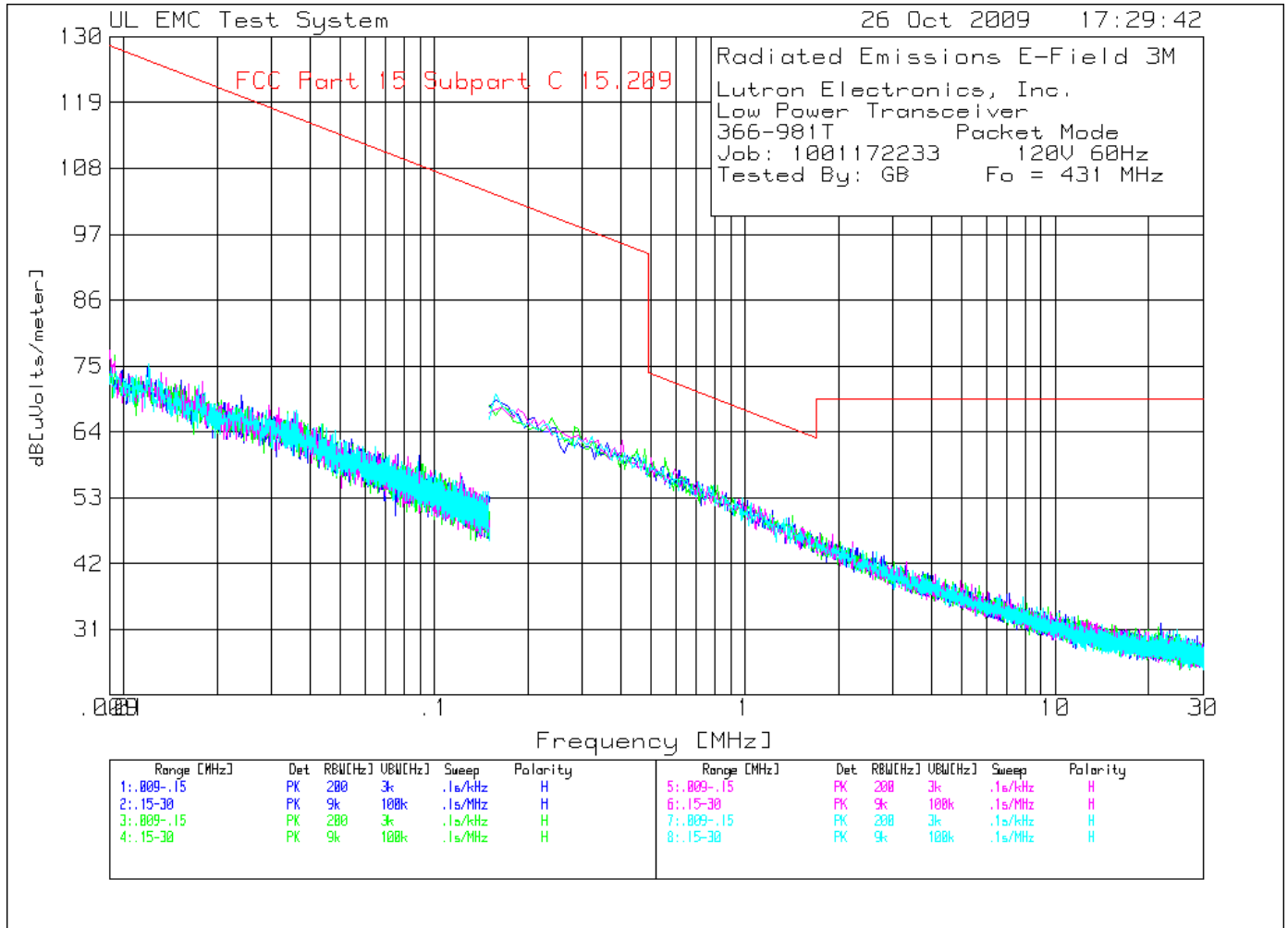


Table 19 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 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

0°	.009 - .15MHz										
1	.01193	44.49 pk	.2	30.1	74.79	126.1	-	-	-	-	-
	Azimuth:209	Height:100	Horz	Margin [dB]		-51.31	-	-	-	-	-
2	.08991	41.57 pk	0	18.5	60.07	108.5	-	-	-	-	-
	Azimuth:209	Height:100	Horz	Margin [dB]		-48.43	-	-	-	-	-

0°	.15 - 30MHz										
3	1.23233	34 pk	.1	16.7	50.8	65.8	-	-	-	-	-
	Azimuth:353	Height:100	Horz	Margin [dB]		-15	-	-	-	-	-
4	21.93102	14.07 pk	.3	17.7	32.07	69.5	-	-	-	-	-
	Azimuth:298	Height:100	Horz	Margin [dB]		-37.43	-	-	-	-	-

45°	.009 - .15MHz										
5	.0094	44.64 pk	.5	31.7	76.84	128.1	-	-	-	-	-
	Azimuth:227	Height:121	Horz	Margin [dB]		-51.26	-	-	-	-	-
6	.09169	40.23 pk	0	18.4	58.63	108.3	-	-	-	-	-
	Azimuth:302	Height:121	Horz	Margin [dB]		-49.67	-	-	-	-	-

45°	.15 - 30MHz										
7	.55308	42.48 pk	0	17.1	59.58	72.7	-	-	-	-	-
	Azimuth:123	Height:121	Horz	Margin [dB]		-13.12	-	-	-	-	-
8	15.1907	14.03 pk	.2	17.6	31.83	69.5	-	-	-	-	-
	Azimuth:51	Height:121	Horz	Margin [dB]		-37.67	-	-	-	-	-

90°	.009 - .15MHz										
9	.00906	44.96 pk	.8	32	77.76	128.4	-	-	-	-	-
	Azimuth:134	Height:140	Horz	Margin [dB]		-50.64	-	-	-	-	-
10	.03168	44.26 pk	0	23.7	67.96	117.6	-	-	-	-	-
	Azimuth:7	Height:140	Horz	Margin [dB]		-49.64	-	-	-	-	-

90°	.15 - 30MHz										
11	.40379	45.3 pk	0	17.3	62.6	95.5	-	-	-	-	-
	Azimuth:358	Height:140	Horz	Margin [dB]		-32.9	-	-	-	-	-
12	2.21763	28.76 pk	.1	16.7	45.56	69.5	-	-	-	-	-
	Azimuth:206	Height:140	Horz	Margin [dB]		-23.94	-	-	-	-	-

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 - Average detector
 avlg - Average log detector
 ave - Average detector

Job Number: 1001172233 File Number: MC15896 Page 58 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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

135°	.009 - .15MHz	-----									
13	.0121	45.25 pk	.1	30	75.35	125.9	-	-	-	-	-
	Azimuth:159	Height:160	Horz	Margin [dB]		-50.55	-	-	-	-	-
14	.0362	44.66 pk	0	23	67.66	116.4	-	-	-	-	-
	Azimuth:8	Height:160	Horz	Margin [dB]		-48.74	-	-	-	-	-

135°	.15 - 30MHz	-----									
15	1.42641	32.05 pk	.1	16.7	48.85	64.5	-	-	-	-	-
	Azimuth:308	Height:160	Horz	Margin [dB]		-15.65	-	-	-	-	-
16	7.85323	18.96 pk	.2	17.3	36.46	69.5	-	-	-	-	-
	Azimuth:21	Height:160	Horz	Margin [dB]		-33.04	-	-	-	-	-

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 - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 16 Radiated Emissions Graph

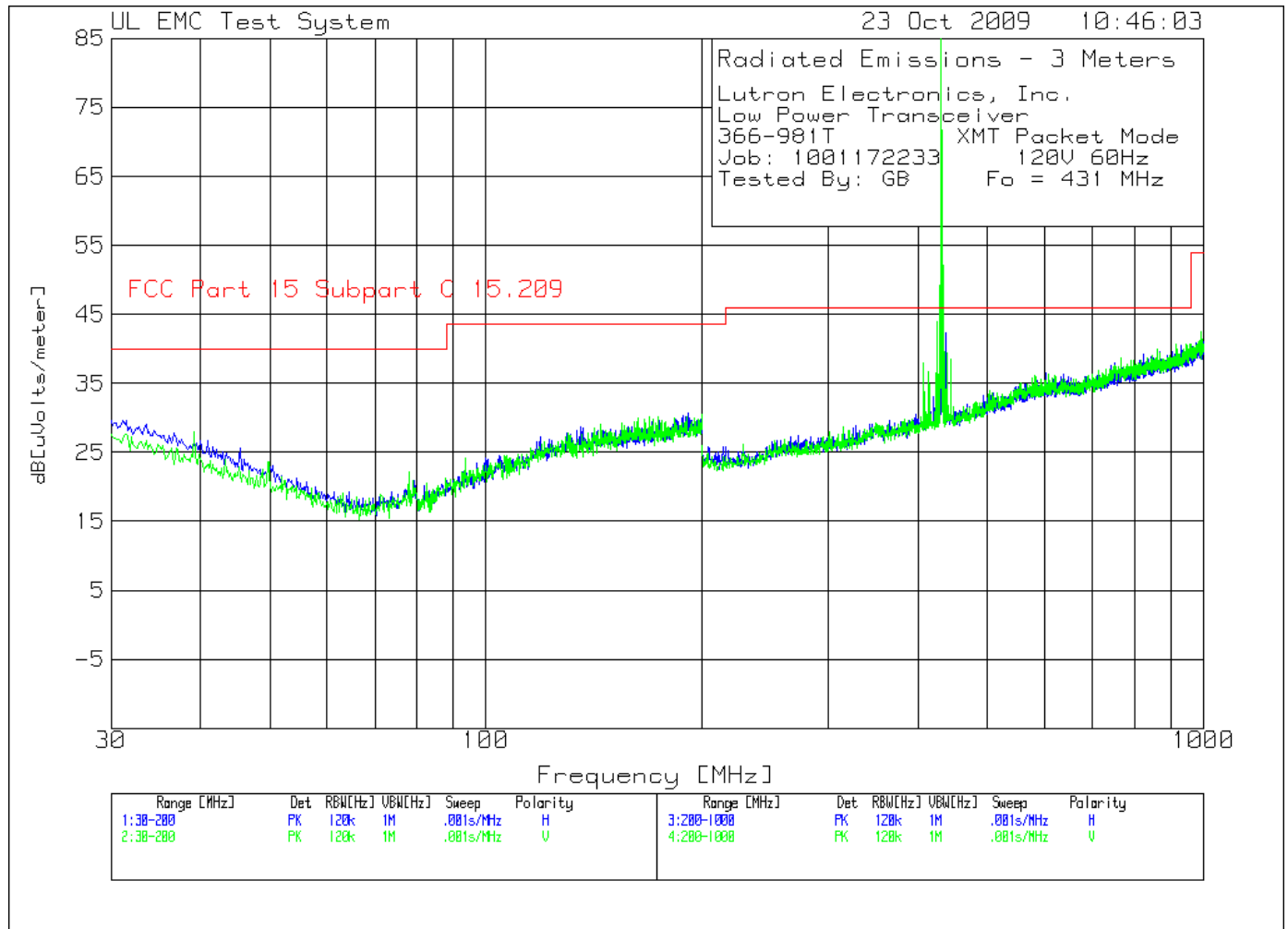


Table 20 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 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 200 - 1000MHz -----											
1	428.5143	31.06 pk	1.3	16.7	49.06	46	-	-	-	-	-
	Azimuth:69	Height:300	Horz	Margin [dB]		3.06	-	-	-	-	-
2	430.9155	64.49 pk	1.3	16.7	82.49	46	-	-	-	-	-
	Azimuth:343	Height:100	Horz	Margin [dB]		36.49	-	-	-	-	-
3	432.1161	39.93 pk	1.3	16.8	58.03	46	-	-	-	-	-
	Azimuth:343	Height:200	Horz	Margin [dB]		12.03	-	-	-	-	-
4	436.9185	23.98 pk	1.3	17	42.28	46	-	-	-	-	-
	Azimuth:277	Height:200	Horz	Margin [dB]		-3.72	-	-	-	-	-
Vertical 200 - 1000MHz -----											
5	424.5123	26.25 pk	1.3	16.4	43.95	46	-	-	-	-	-
	Azimuth:235	Height:100	Vert	Margin [dB]		-2.05	-	-	-	-	-
6	428.5143	31.46 pk	1.3	16.4	49.16	46	-	-	-	-	-
	Azimuth:152	Height:200	Vert	Margin [dB]		3.16	-	-	-	-	-
7	430.9155	74.65 pk	1.3	16.4	92.35	46	-	-	-	-	-
	Azimuth:342	Height:100	Vert	Margin [dB]		46.35	-	-	-	-	-
8	433.3167	34.25 pk	1.3	16.5	52.05	46	-	-	-	-	-
	Azimuth:276	Height:100	Vert	Margin [dB]		6.05	-	-	-	-	-

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 - Average detector
 avlg - denotes average log detection

Job Number: 1001172233 File Number: MC15896 Page 61 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 431 MHz

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 200 - 1000MHz										
430.9749	72.48 pk	1.3	16.7	70.48*	-	80.7	-	-	-	-
Azimuth: 122 Height:240 Horz					Margin [dB]:	-	-10.22	-	-	-
428.5	7.9 qp	1.3	16.7	25.9	46	-	-	-	-	-
Azimuth: 141 Height:118 Horz					Margin [dB]:	-20.1	-	-	-	-
432.1	20.06 qp	1.3	16.8	38.16	46	-	-	-	-	-
Azimuth: 139 Height:242 Horz					Margin [dB]:	-7.84	-	-	-	-
437	8.89 qp	1.3	17	27.19	46	-	-	-	-	-
Azimuth: 90 Height:239 Horz					Margin [dB]:	-18.81	-	-	-	-
Vertical 200 - 1000MHz										
431.0571	75.48 pk	1.3	16.4	73.18*	-	80.7	-	-	-	-
Azimuth: 128 Height:113 Vert					Margin [dB]:	-	-7.52	-	-	-
433.3	19.02 qp	1.3	16.5	36.82	46	-	-	-	-	-
Azimuth: 126 Height:109 Vert					Margin [dB]:	-9.18	-	-	-	-
428.5	14.96 qp	1.3	16.4	32.66	46	-	-	-	-	-
Azimuth: 147 Height:128 Vert					Margin [dB]:	-13.34	-	-	-	-
424.5	8.46 qp	1.3	16.4	26.16	46	-	-	-	-	-
Azimuth: 143 Height:116 Vert					Margin [dB]:	-19.84	-	-	-	-

***Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)**

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 - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 17 Radiated Emissions Graph

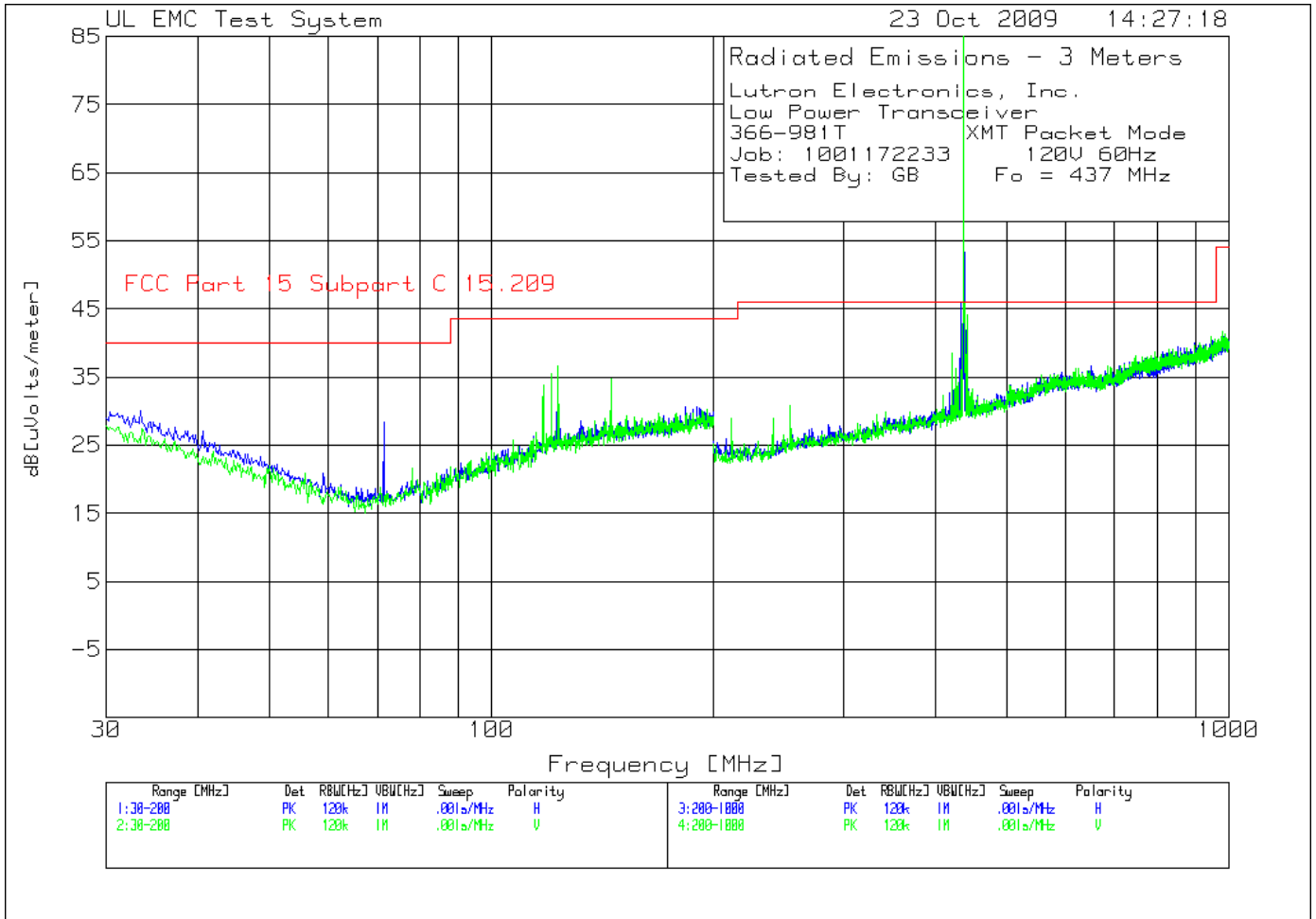


Table 21 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 437 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 200 - 1000MHz -----											
1	432.5163	27.94 pk	1.3	16.8	46.04	46	-	-	-	-	-
	Azimuth:342	Height:200	Horz	Margin [dB]	.04	-	-	-	-	-	-
2	435.7179	27.63 pk	1.3	16.9	45.83	46	-	-	-	-	-
	Azimuth:111	Height:400	Horz	Margin [dB]	-.17	-	-	-	-	-	-
3	436.9185	69.3 pk	1.3	17	87.6	46	-	-	-	-	-
	Azimuth:152	Height:300	Horz	Margin [dB]	41.6	-	-	-	-	-	-
4	437.7189	35.02 pk	1.3	17	53.32	46	-	-	-	-	-
	Azimuth:193	Height:200	Horz	Margin [dB]	7.32	-	-	-	-	-	-
5	438.5193	27.08 pk	1.3	17	45.38	46	-	-	-	-	-
	Azimuth:342	Height:300	Horz	Margin [dB]	-.62	-	-	-	-	-	-
6	440.1201	23.46 pk	1.3	17.1	41.86	46	-	-	-	-	-
	Azimuth:358	Height:300	Horz	Margin [dB]	-4.14	-	-	-	-	-	-
Vertical 200 - 1000MHz -----											
7	436.9185	74.69 pk	1.3	16.5	92.49	46	-	-	-	-	-
	Azimuth:342	Height:100	Vert	Margin [dB]	46.49	-	-	-	-	-	-
8	438.9195	27.92 pk	1.3	16.6	45.82	46	-	-	-	-	-
	Azimuth:313	Height:100	Vert	Margin [dB]	-.18	-	-	-	-	-	-
9	441.3207	26.29 pk	1.3	16.6	44.19	46	-	-	-	-	-
	Azimuth:133	Height:100	Vert	Margin [dB]	-1.81	-	-	-	-	-	-

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 - Average detector
 avlg - denotes average log detection

Job Number: 1001172233 File Number: MC15896 Page 64 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 437 MHz

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 200 - 1000MHz										
436.8572	68.65 pk	1.3	17	66.95*	-	80.9	-	-	-	-
Azimuth: 87		Height:100		Horz		Margin [dB]:		-	-13.95	-
437.7	17.1 qp	1.3	17	35.4	46	-	-	-	-	-
Azimuth: 226		Height:341		Horz		Margin [dB]:		-10.6	-	-
438.5	16.69 qp	1.3	17	34.99	46	-	-	-	-	-
Azimuth: 303		Height:195		Horz		Margin [dB]:		-11.01	-	-
440.1	16.69 qp	1.3	17.1	35.09	46	-	-	-	-	-
Azimuth: 37		Height:187		Horz		Margin [dB]:		-10.91	-	-
435.7	16.48 qp	1.3	16.9	34.68	46	-	-	-	-	-
Azimuth: 17		Height:156		Horz		Margin [dB]:		-11.32	-	-
432.5	16.26 qp	1.3	16.8	34.36	46	-	-	-	-	-
Azimuth: 0		Height:100		Horz		Margin [dB]:		-11.64	-	-
Vertical 200 - 1000MHz										
436.9426	80.45 pk	1.3	16.5	78.25*	-	80.9	-	-	-	-
Azimuth: 127		Height:111		Vert		Margin [dB]:		-	-2.65	-
438.9	24.08 qp	1.3	16.6	41.98	46	-	-	-	-	-
Azimuth: 136		Height:109		Vert		Margin [dB]:		-4.02	-	-
441.3	18.06 qp	1.3	16.6	35.96	46	-	-	-	-	-
Azimuth: 141		Height:100		Vert		Margin [dB]:		-10.04	-	-

*Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)

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 - Average detector
 avlg - Average log detector
 ave - Average detector

Table 22 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 431MHz

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	1307.116	82.01 pk	-45.69	20.5	56.82	54	-	-	-	-	-
		Height:149 Horz		Margin [dB]		2.82	-	-	-	-	-
2	1744.07	72.73 pk	-45.11	20.8	48.42	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-5.58	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
3	2177.278	76.21 pk	-43.93	21.4	53.68	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-.32	-	-	-	-	-
4	2614.232	62.93 pk	-43.41	21.3	40.82	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-13.18	-	-	-	-	-
5	3051.186	73.59 pk	-42.97	21.6	52.22	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-1.78	-	-	-	-	-
6	3485.643	70.93 pk	-42.96	22.2	50.17	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-3.83	-	-	-	-	-
7	3922.597	69.03 pk	-43.04	22.7	48.69	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-5.31	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
8	4356.073	67.87 pk	-53.65	27.6	41.82	54	-	-	-	-	-
		Height:149 Horz		Margin [dB]		-12.18	-	-	-	-	-
9	4792.013	72.28 pk	-54.35	27.1	45.03	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-8.97	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
10	1307.116	86.43 pk	-45.69	20.5	61.24	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		7.24	-	-	-	-	-
11	1742.821	75.75 pk	-45.11	20.8	51.44	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-2.56	-	-	-	-	-

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

Job Number: 1001172233 File Number: MC15896 Page 67 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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 2000 - 4000MHz -----											
12	2179.775	69.37 pk	-43.92	21.2	46.65	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-7.35	-	-	-	-	-
13	2614.232	59.21 pk	-43.41	21.4	37.2	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-16.8	-	-	-	-	-
14	3051.186	73.25 pk	-42.97	21.8	52.08	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-1.92	-	-	-	-	-
15	3485.643	66.35 pk	-42.96	22.3	45.69	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-8.31	-	-	-	-	-
16	3920.1	75.1 pk	-42.95	22.7	54.85	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		.85	-	-	-	-	-

Vertical 4000 - 5000MHz -----											
17	4356.073	73.66 pk	-53.65	27.7	47.71	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-6.29	-	-	-	-	-
18	4791.181	78.58 pk	-54.35	27.3	51.53	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-2.47	-	-	-	-	-

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

Job Number: 1001172233 File Number: MC15896 Page 68 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 431MHz

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										
1306.7	85.15 PK	-45.69	20.5	39.96*	54	-	-	-	-	-
Azimuth: 101		Height:384		Horz		Margin [dB]: -14.04		-	-	-
1742.2625	76.29 PK	-45.09	20.8	52	54	-	-	-	-	-
Azimuth: 194		Height:372		Horz		Margin [dB]: -2		-	-	-
Horizontal 2000 - 4000MHz										
2177.805	76.1 PK	-43.93	21.4	53.57	-	60.7	-	-	-	-
Azimuth: 223		Height:353		Horz		Margin [dB]: -7.13		-	-	-
2613.825	64.26 PK	-43.4	21.3	42.16	54	-	-	-	-	-
Azimuth: 275		Height:301		Horz		Margin [dB]: -11.84		-	-	-
3048.925	74.2 PK	-43.01	21.6	52.79	54	-	-	-	-	-
Azimuth: 42		Height:399		Horz		Margin [dB]: -1.21		-	-	-
3485	72.44 PK	-43	22.2	51.64	54	-	-	-	-	-
Azimuth: 313		Height:393		Horz		Margin [dB]: -2.36		-	-	-
3920.75	76.92 PK	-42.97	22.7	36.65*	54	-	-	-	-	-
Azimuth: 349		Height:360		Horz		Margin [dB]: -17.35		-	-	-
Horizontal 4000 - 5000MHz										
4356.4	70.66 PK	-53.66	27.6	44.6	54	-	-	-	-	-
Azimuth: 283		Height:356		Horz		Margin [dB]: -9.4		-	-	-
4792	77.14 PK	-54.35	27.1	49.89	54	-	-	-	-	-
Azimuth: 194		Height:387		Horz		Margin [dB]: -4.11		-	-	-

***Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)**

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

Job Number: 1001172233 File Number: MC15896 Page 69 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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 1000 - 2000MHz										
1306.725	87.51 PK	-45.69	20.5	42.32*	54	-	-	-	-	-
Azimuth: 122 Height:372 Vert					Margin [dB]:	-11.68	-	-	-	-
1742.5625	75.48 PK	-45.1	20.8	51.18	54	-	-	-	-	-
Azimuth: 112 Height:347 Vert					Margin [dB]:	-2.82	-	-	-	-
Vertical 2000 - 4000MHz										
2178.175	75.78 PK	-43.93	21.2	53.05	-	60.7	-	-	-	-
Azimuth: 163 Height:371 Vert					Margin [dB]:	-7.65	-	-	-	-
2613.3875	62.11 PK	-43.4	21.4	40.11	54	-	-	-	-	-
Azimuth: 213 Height:207 Vert					Margin [dB]:	-13.89	-	-	-	-
3049.45	74.26 PK	-43.02	21.7	52.94	54	-	-	-	-	-
Azimuth: 224 Height:157 Vert					Margin [dB]:	-1.06	-	-	-	-
3485.1125	67.04 PK	-42.99	22.3	46.35	54	-	-	-	-	-
Azimuth: 244 Height:209 Vert					Margin [dB]:	-7.65	-	-	-	-
3920.0375	78.53 PK	-42.95	22.7	38.28*	54	-	-	-	-	-
Azimuth: 257 Height:243 Vert					Margin [dB]:	-15.72	-	-	-	-
Vertical 4000 - 5000MHz										
4355.5875	72.24 PK	-53.65	27.7	46.29	54	-	-	-	-	-
Azimuth: 139 Height:283 Vert					Margin [dB]:	-7.71	-	-	-	-
4791.9625	79.44 PK	-54.35	27.3	52.39	54	-	-	-	-	-
Azimuth: 269 Height:280 Vert					Margin [dB]:	-1.61	-	-	-	-

***Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)**

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

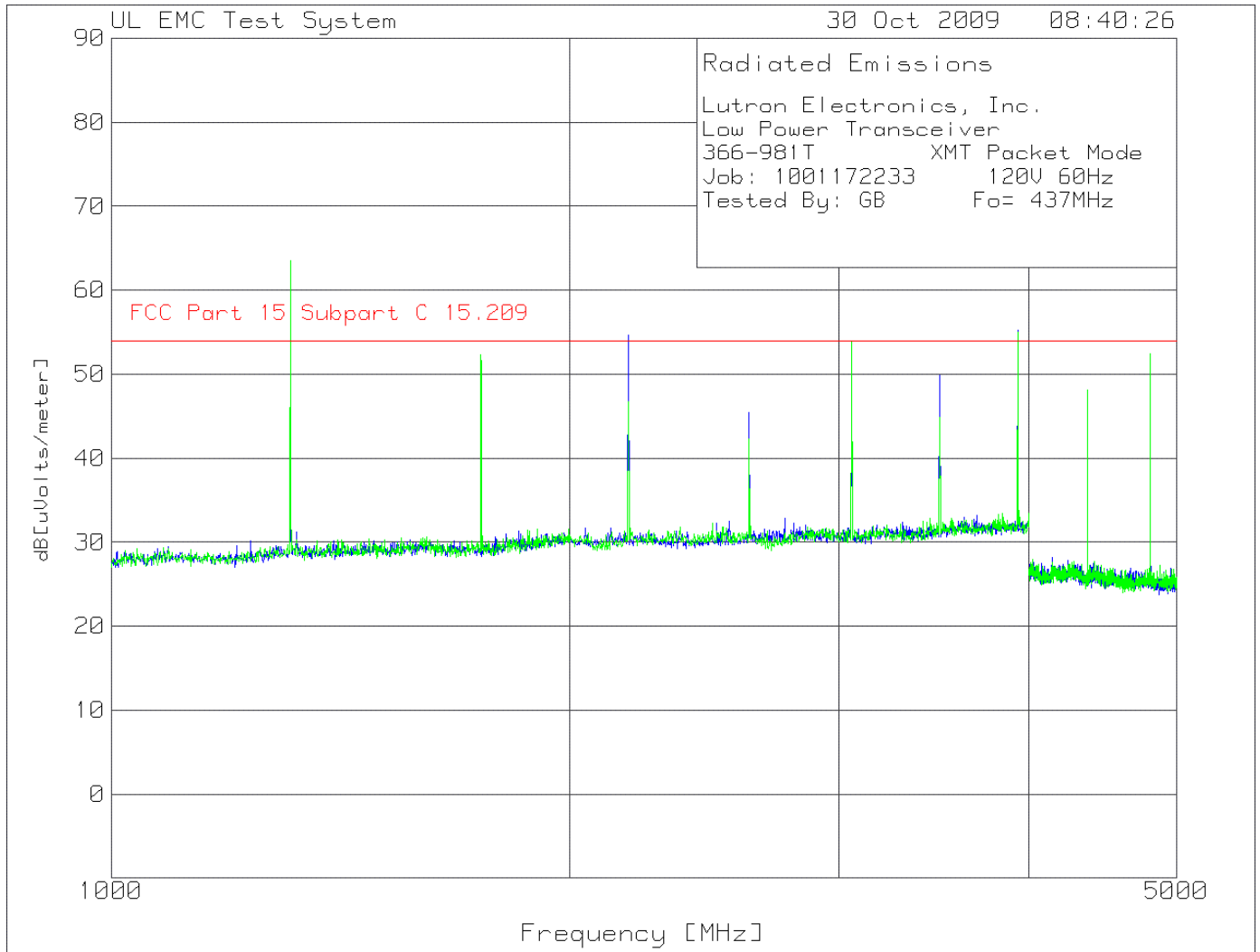


Table 23 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 437MHz

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	87.82 pk	-45.73	20.5	62.59	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		8.59	-	-	-	-	-
2	1747.815	74.27 pk	-45.07	20.8	50	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-4	-	-	-	-	-
Horizontal 2000 - 4000MHz -----											
3	2184.769	77.13 pk	-44.02	21.5	54.61	54	-	-	-	-	-
		Height:101 Horz		Margin [dB]		.61	-	-	-	-	-
4	2621.723	67.43 pk	-43.42	21.4	45.41	54	-	-	-	-	-
		Height:149 Horz		Margin [dB]		-8.59	-	-	-	-	-
5	3061.174	73.23 pk	-42.93	21.6	51.9	54	-	-	-	-	-
		Height:149 Horz		Margin [dB]		-2.1	-	-	-	-	-
6	3495.63	70.49 pk	-42.87	22.2	49.82	54	-	-	-	-	-
		Height:199 Horz		Margin [dB]		-4.18	-	-	-	-	-
7	3932.584	75.27 pk	-42.76	22.7	55.21	54	-	-	-	-	-
		Height:199 Horz		Margin [dB]		1.21	-	-	-	-	-
Horizontal 4000 - 5000MHz -----											
8	4369.384	67.31 pk	-53.69	27.6	41.22	54	-	-	-	-	-
		Height:199 Horz		Margin [dB]		-12.78	-	-	-	-	-
9	4806.988	71.59 pk	-54.34	27.1	44.35	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-9.65	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
10	1310.861	88.79 pk	-45.73	20.5	63.56	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		9.56	-	-	-	-	-
11	1747.815	76.65 pk	-45.07	20.8	52.38	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-1.62	-	-	-	-	-

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

Job Number: 1001172233 File Number: MC15896 Page 72 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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 2000 - 4000MHz -----											
12	2184.769	69.49 pk	-44.02	21.2	46.67	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-7.33	-	-	-	-	-
13	2621.723	64.33 pk	-43.42	21.4	42.31	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-11.69	-	-	-	-	-
14	3061.174	74.98 pk	-42.93	21.8	53.85	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-.15	-	-	-	-	-
15	3498.127	65.31 pk	-42.85	22.4	44.86	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-9.14	-	-	-	-	-
16	3932.584	75.12 pk	-42.76	22.7	55.06	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		1.06	-	-	-	-	-

Vertical 4000 - 5000MHz -----											
17	4369.384	74.15 pk	-53.69	27.7	48.16	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-5.84	-	-	-	-	-
18	4806.156	79.43 pk	-54.32	27.3	52.41	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-1.59	-	-	-	-	-

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

Job Number: 1001172233 File Number: MC15896 Page 73 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T XMT Packet Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 437MHz

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										
1310.7625	84.37 PK	-45.72	20.5	39.15*	54	-	-	-	-	-
Azimuth: 73		Height:375		Horz		Margin [dB]:		-14.85	-	-
1747.45	73.55 PK	-45.1	20.8	49.25	54	-	-	-	-	-
Azimuth: 185		Height:348		Horz		Margin [dB]:		-4.75	-	-
Horizontal 2000 - 4000MHz										
2184.6375	76.25 PK	-44.02	21.5	53.73	-	60.9	-	-	-	-
Azimuth: 102		Height:334		Horz		Margin [dB]:		-7.17	-	-
2621.6125	67.47 PK	-43.42	21.4	45.45	54	-	-	-	-	-
Azimuth: 296		Height:393		Horz		Margin [dB]:		-8.55	-	-
3058.5875	71.89 PK	-42.95	21.6	50.54	54	-	-	-	-	-
Azimuth: 30		Height:392		Horz		Margin [dB]:		-3.46	-	-
3494.9	72.03 PK	-42.89	22.2	51.34	54	-	-	-	-	-
Azimuth: 326		Height:382		Horz		Margin [dB]:		-2.66	-	-
3932	74.23 PK	-42.77	22.7	34.16*	54	-	-	-	-	-
Azimuth: 329		Height:390		Horz		Margin [dB]:		-19.84	-	-
Horizontal 4000 - 5000MHz										
4369.4125	69.33 PK	-53.69	27.6	43.24	54	-	-	-	-	-
Azimuth: 85		Height:381		Horz		Margin [dB]:		-10.76	-	-
4806.3	74.66 PK	-54.32	27.1	47.44	54	-	-	-	-	-
Azimuth: 168		Height:386		Horz		Margin [dB]:		-6.56	-	-

***Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)**

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

Job Number: 1001172233 File Number: MC15896 Page 74 of 87
 Model Number: RRD-3LD
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035

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 1000 - 2000MHz										
1310.8	89.61 PK	-45.73	20.5	34.38*	54	-	-	-	-	-
Azimuth: 140	Height:386	Vert		Margin [dB]:	-19.62	-	-	-	-	-
1747.7625	75.26 PK	-45.08	20.8	50.98	54	-	-	-	-	-
Azimuth: 88	Height:359	Vert		Margin [dB]:	-3.02	-	-	-	-	-
Vertical 2000 - 4000MHz										
2184.6625	75.28 PK	-44.02	21.2	52.46	54	-	-	-	-	-
Azimuth: 164	Height:364	Vert		Margin [dB]:	-1.54	-	-	-	-	-
2621.6375	67.26 PK	-43.42	21.4	45.24	54	-	-	-	-	-
Azimuth: 199	Height:372	Vert		Margin [dB]:	-8.76	-	-	-	-	-
3058.025	72.71 PK	-42.94	21.8	51.57	54	-	-	-	-	-
Azimuth: 62	Height:246	Vert		Margin [dB]:	-2.43	-	-	-	-	-
3058.025	50.24 PK	-42.94	21.8	29.1	54	-	-	-	-	-
Azimuth: 62	Height:246	Vert		Margin [dB]:	-24.9	-	-	-	-	-
3495.49	67.38 PK	-42.87	22.4	46.91	54	-	-	-	-	-
Azimuth: 272	Height:193	Vert		Margin [dB]:	-7.09	-	-	-	-	-
3931.75	78.24 PK	-42.78	22.7	38.16*	54	-	-	-	-	-
Azimuth: 201	Height:282	Vert		Margin [dB]:	-15.84	-	-	-	-	-
Vertical 4000 - 5000MHz										
4369.3625	70.72 PK	-53.69	27.7	44.73	54	-	-	-	-	-
Azimuth: 151	Height:104	Vert		Margin [dB]:	-9.27	-	-	-	-	-
4805.4375	81 PK	-54.3	27.3	34*	54	-	-	-	-	-
Azimuth: 276	Height:320	Vert		Margin [dB]:	-20.00	-	-	-	-	-

***Duty cycle correction factor of -20dB applied (see section 4.4 for calculation)**

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 (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

4.6 Test Conditions and Results – UNINTENTIONAL RADIATED EMISSIONS

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, ICES-003	
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
Above 1000	NA	54
Supplementary information: None.		

Table 24 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
1	1	6
Supplementary information: None		

Table 25 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Switch Driver	HP	11713A	ME7A-627
Log-P Antenna	Schaffner	UPA6109	44067
Bicon Antenna	Schaffner	VBA6106A	43441
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-306
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-306

Figure 20 Test setup for Radiated Emissions

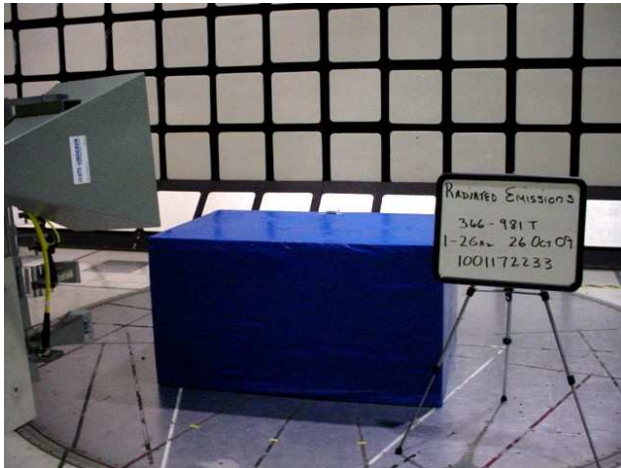
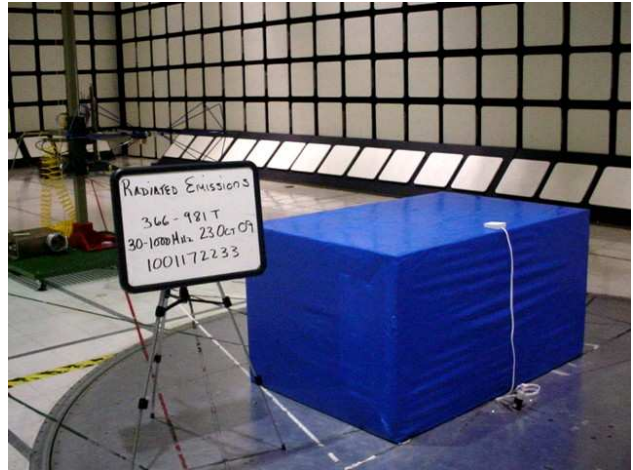
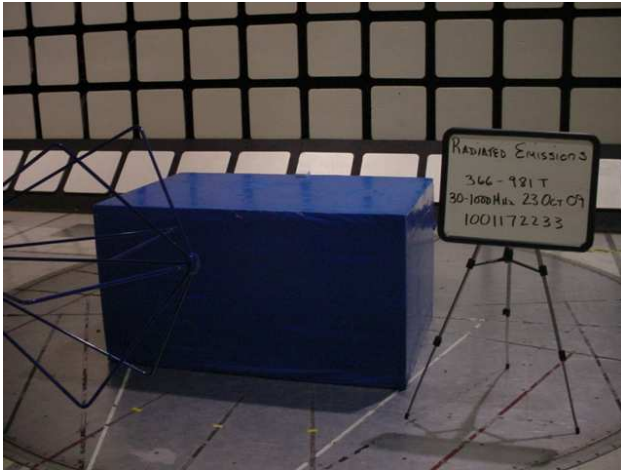


Figure 21 Radiated Emissions Graph

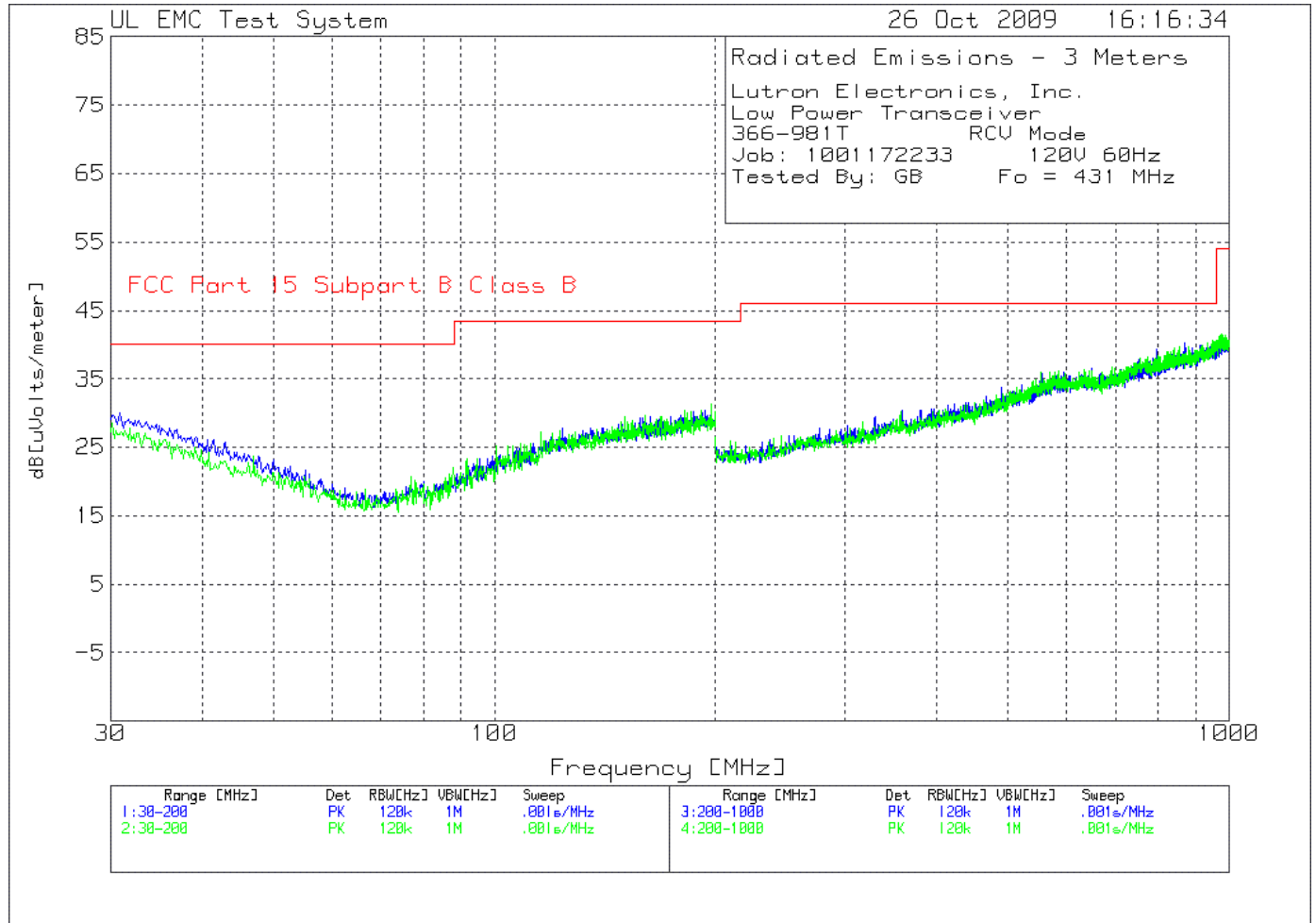


Table 26 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 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	30.8509	11.16 pk	.4	18.5	30.06	40	-	-	-	-	-
	Azimuth:3	Height:300	Horz	Margin [dB]		-9.94	-	-	-	-	-
2	41.4014	11.67 pk	.4	14	26.07	40	-	-	-	-	-
	Azimuth:146	Height:200	Horz	Margin [dB]		-13.93	-	-	-	-	-
3	123.7638	13.81 pk	.7	13.3	27.81	43.5	-	-	-	-	-
	Azimuth:289	Height:300	Horz	Margin [dB]		-15.69	-	-	-	-	-
4	162.7327	13.92 pk	.8	14.7	29.42	43.5	-	-	-	-	-
	Azimuth:110	Height:400	Horz	Margin [dB]		-14.08	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
6	871.1356	15.74 pk	1.7	22.9	40.34	46	-	-	-	-	-
	Azimuth:256	Height:300	Horz	Margin [dB]		-5.66	-	-	-	-	-
Vertical 200 - 1000MHz -----											
5	554.1771	14.84 pk	1.4	19.8	36.04	46	-	-	-	-	-
	Azimuth:19	Height:400	Vert	Margin [dB]		-9.96	-	-	-	-	-

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

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 22 Radiated Emissions Graph

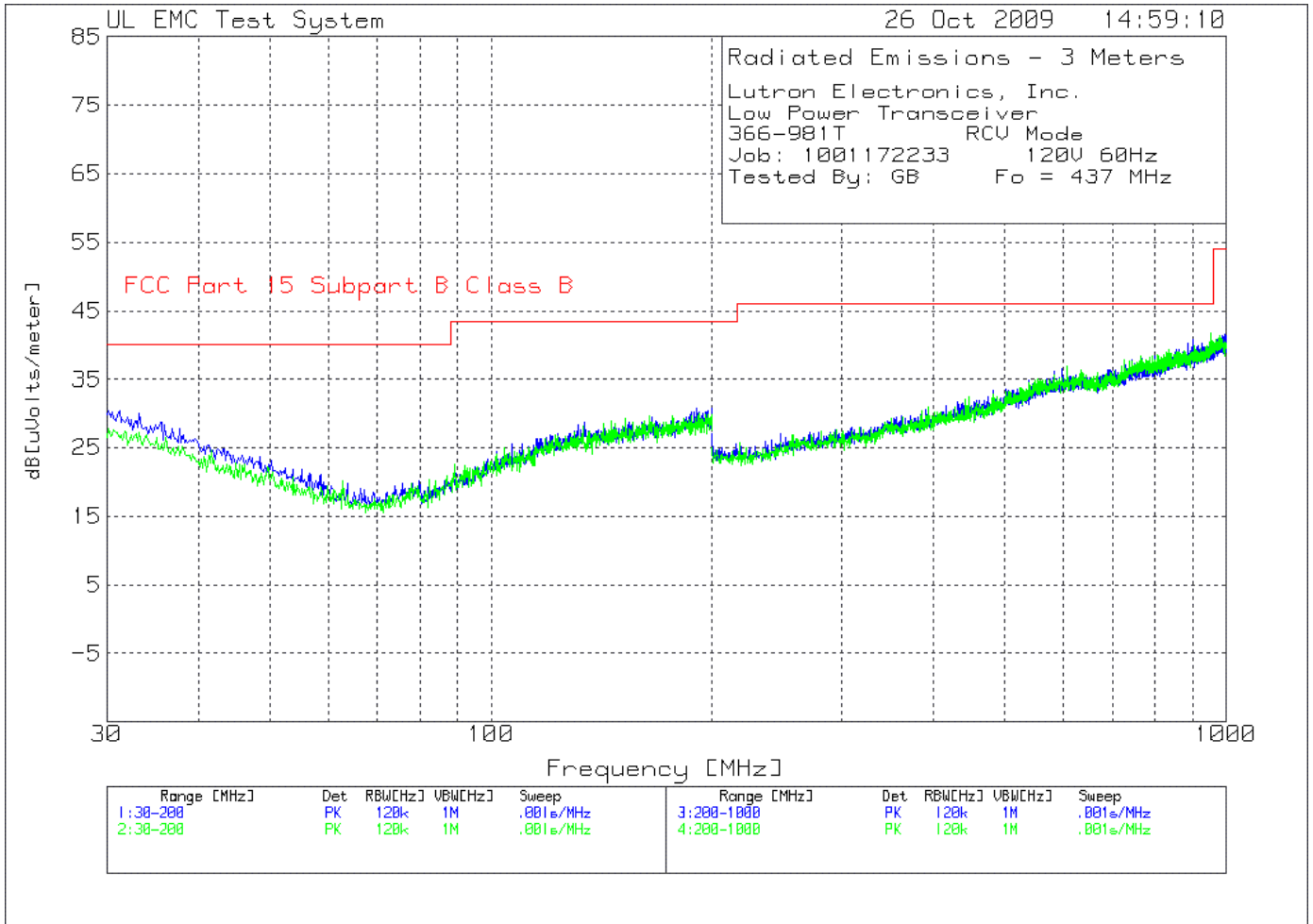


Table 27 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo = 437 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	30.1702	11.3 pk	.4	18.7	30.4	40	-	-	-	-	-
	Azimuth:250	Height:200	Horz	Margin [dB]		-9.6	-	-	-	-	-
2	63.6937	13.46 pk	.5	5.9	19.86	40	-	-	-	-	-
	Azimuth:106	Height:300	Horz	Margin [dB]		-20.14	-	-	-	-	-
3	134.1441	13.87 pk	.7	14.1	28.67	43.5	-	-	-	-	-
	Azimuth:342	Height:200	Horz	Margin [dB]		-14.83	-	-	-	-	-
4	190.1301	13.76 pk	.9	16.1	30.76	43.5	-	-	-	-	-
	Azimuth:178	Height:400	Horz	Margin [dB]		-12.74	-	-	-	-	-
Vertical 200 - 1000MHz -----											
5	767.0835	14.66 pk	1.7	22.1	38.46	46	-	-	-	-	-
	Azimuth:213	Height:400	Vert	Margin [dB]		-7.54	-	-	-	-	-
6	953.1766	15.62 pk	1.9	24.2	41.72	46	-	-	-	-	-
	Azimuth:19	Height:100	Vert	Margin [dB]		-4.28	-	-	-	-	-

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

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Table 28 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 431MHz

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	1031.211	55.25 pk	-45.78	19.5	28.97	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-25.03	-	-	-	-	-
2	1161.049	55.22 pk	-45.71	19.9	29.41	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-24.59	-	-	-	-	-
3	1252.185	54.95 pk	-45.55	20.2	29.6	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]		-24.4	-	-	-	-	-
4	1323.346	57.08 pk	-45.61	20.5	31.97	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-22.03	-	-	-	-	-
5	1553.059	54.86 pk	-45.31	21	30.55	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-23.45	-	-	-	-	-
6	1602.996	54.55 pk	-45.24	21.2	30.51	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-23.49	-	-	-	-	-
7	1850.187	54.97 pk	-44.91	21.3	31.36	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]		-22.64	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B Class B
 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

Table 29 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Low Power Transceiver
 366-981T RCV Mode
 Job: 1001172233 120V 60Hz
 Tested By: GB Fo= 437MHz

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	1079.9	54.77 pk	-45.78	19.9	28.89	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-25.11	-	-	-	-	-
2	1162.297	55.26 pk	-45.57	19.9	29.59	54	-	-	-	-	-
		Height:101 Horz		Margin [dB]		-24.41	-	-	-	-	-
3	1323.346	57.14 pk	-45.61	20.5	32.03	54	-	-	-	-	-
		Height:101 Horz		Margin [dB]		-21.97	-	-	-	-	-
4	1378.277	55.4 pk	-45.62	20.7	30.48	54	-	-	-	-	-
		Height:101 Horz		Margin [dB]		-23.52	-	-	-	-	-
5	1406.991	55.18 pk	-45.58	20.7	30.3	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-23.7	-	-	-	-	-
6	1826.467	54.54 pk	-44.89	21.2	30.85	54	-	-	-	-	-
		Height:101 Horz		Margin [dB]		-23.15	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B Class B
 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

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.

Job Number: 1001172233 File Number: MC15896 Page 87 of 87
Model Number: RRD-3LD
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0066 Industry Canada Number 2851A-JPZ0035



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