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Job Number:	952983
Project Number:	08CA15832
File Number:	MC15896
Date:	01 July 2008
Date:	16 July 2008
Model:	SZ-5B
FCC ID:	JPZ0055
Industry Canada ID:	2851A-JPZ0055

Electromagnetic Compatibility Test Report

For

LUTRON ELECTRONICS INC

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Melville, NY 11747

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Job Number: 952983 File Number: MC15896 Page 2 of 121
Model Number: SZ-5B
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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**
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Test Report Date: **01 July 2008**

Test Report Revision Date: **16 July 2008**

Product Type: **Dimmer with wireless control**

Product standards **FCC Part 15, Subpart C, RSS-GEN, RSS-210**

Model Number: **SZ-5B**

Sample Serial Number: **Non-Serialized Demonstration Unit**

EUT Category: **Periodic Low Power Transmitter**

Testing Start Date: **22 May 2008**

Date Testing Complete: **01 July 2008**

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, 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	—	—
16 July 2008	Administrative/editorial changes	B. DeLisi	J. Danisi

1.0 GENERAL - Product Description

1.1 Equipment Description

Stanza dimmers function much like standard dimmers and switches, and have an integral microprocessor, allowing them to be incorporated into a complete lighting control system. Stanza dimmers are useful in locations where single circuits of lighting need to be dimmed and switched. Stanza dimmers include a front accessible service switch (FASSTM) for safe bulb replacement.

Allows local dimming and switching (toggle On/Off) control of one zone of halogen, incandescent, or magnetic low-voltage loads.

- Light level can also be adjusted, if addressed as part of a Stanza lighting control system, via an RF command from a keypad or integration device.
- 3-way operation can be obtained using a dimmer and a keypad.
- Screw terminals and push-in connections simplify installation.
- Shallow back cover takes up less room in the wall box.
- Large controls designed with ADA and Universal Design considerations.
- Two-wire (plus ground) installation allows easy replacement of existing switches.

The SZ-5B is representative of the SZ-xB line. The transmitter functions of all xB products are identical according to the manufacturer.

The antenna is integral to the device and cannot be removed. The antenna is PCB mounted. The device is categorically exempt from human exposure requirements.

1.2 Equipment Marking Plate

Not Available.

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 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Dimmer with wireless control	LUTRON ELECTRONICS INC	SZ-5B	None
SIM	120Vac 100W light bulb	GE	100W	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:

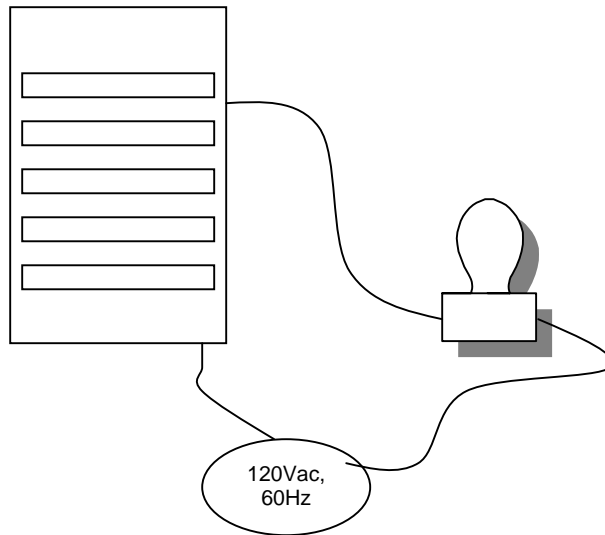
Frequency (MHz)	Description
431	Fundamental Frequency
434	Fundamental Frequency
437	Fundamental Frequency
0.3072	IF Signal
32	Microcontroller

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	120Vac	—	—	60Hz	1	None
1	120Vac	—	—	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 with lamp for a load

1.6 EUT Operation Modes

Mode #	Description
1	Continuously transmitting 431MHz
2	Continuously transmitting 434 MHz
3	Continuously transmitting 437 MHz
4	Normal transmission 431MHz
5	Normal transmission 434 MHz
6	Normal transmission 437 MHz
7	Receive 431 MHz
8	Receive 434 MHz
9	Receive 437 MHz

2.0 Summary

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

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

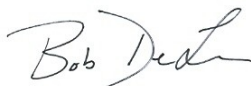
Standard Number	Standard Name	Standard Date
47 CFR Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2007
47 CFR Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2007
ICES-003, Issue 4	Interference-Causing Equipment Standard – Digital Apparatus	2004
RSS-GEN, Issue 7	General Requirements and Information for the Certification of Radiocommunication Equipment	2007
RSS-210, Issue 2	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007

2.4 Results Summary

This product is considered Class B and a Periodic Transmitter

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

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

3.0 Calibration of Equipment Used for Measurement

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

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

4.0 Emissions Test Results

The emissions tests were performed according to following regulations:

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

Code of Federal Regulations Title 47	Part 15, Subpart B, Radio Frequency Devices
Code of Federal Regulations Title 47	Part 15, Subpart C, Radio Frequency Devices
Industry Canada	RSS-GEN, RSS-210, 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, FCC Part 15, Subpart C, 15.207, RSS-GEN, RSS-210	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits		
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	3
1	1	8
Supplementary information: Since the power supply is the same for all modes, receive mode was only measured at one frequency. CW and Packet mode use the same power supply and emissions were considered worst case in CW mode due to lamp load being at full power.		

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	83III	ME5B-306

Figure 1 Test Setup for Conducted Emissions



Figure 2 Conducted Emissions Graph

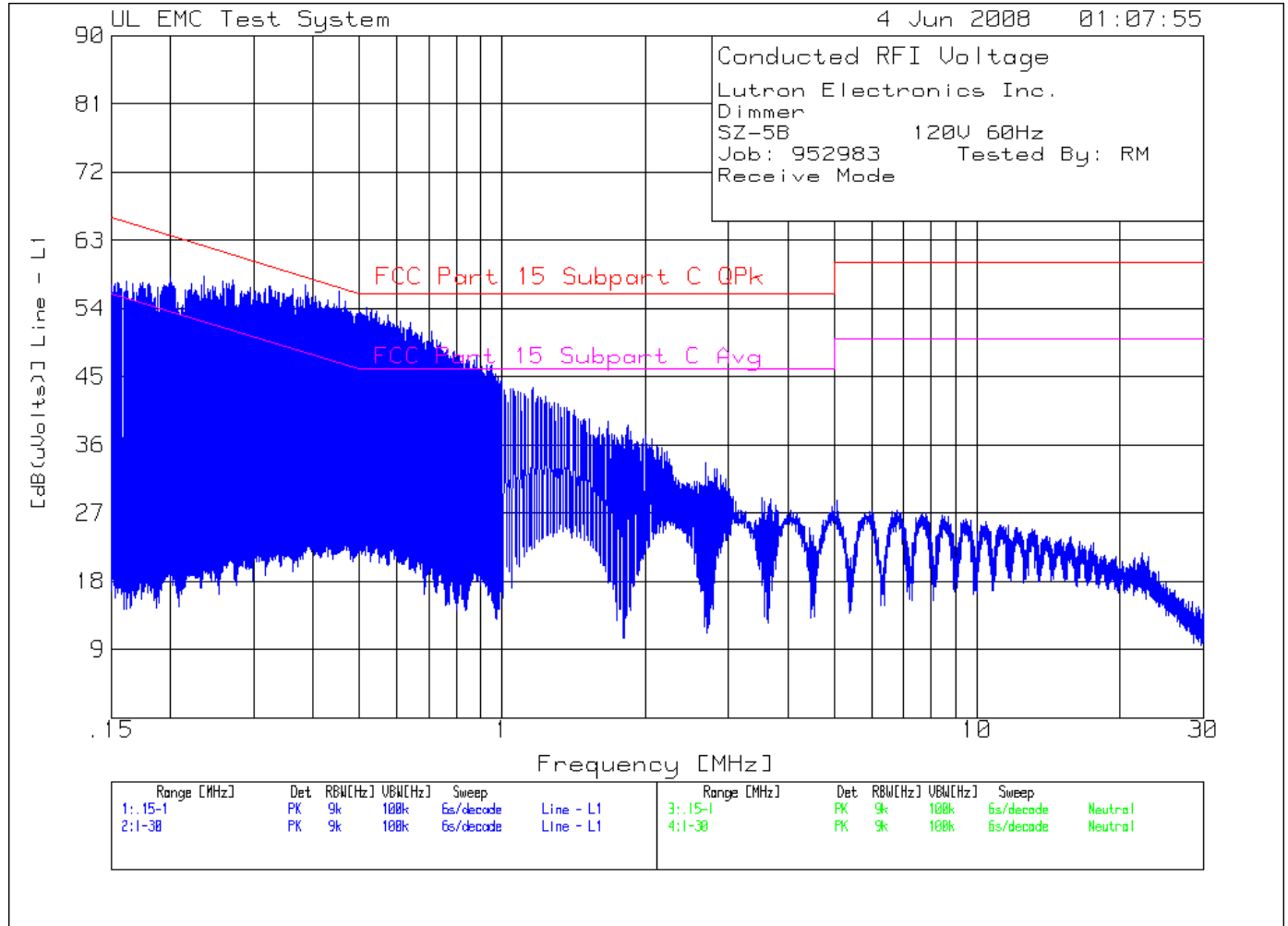


Figure 3 Conducted Emissions Graph

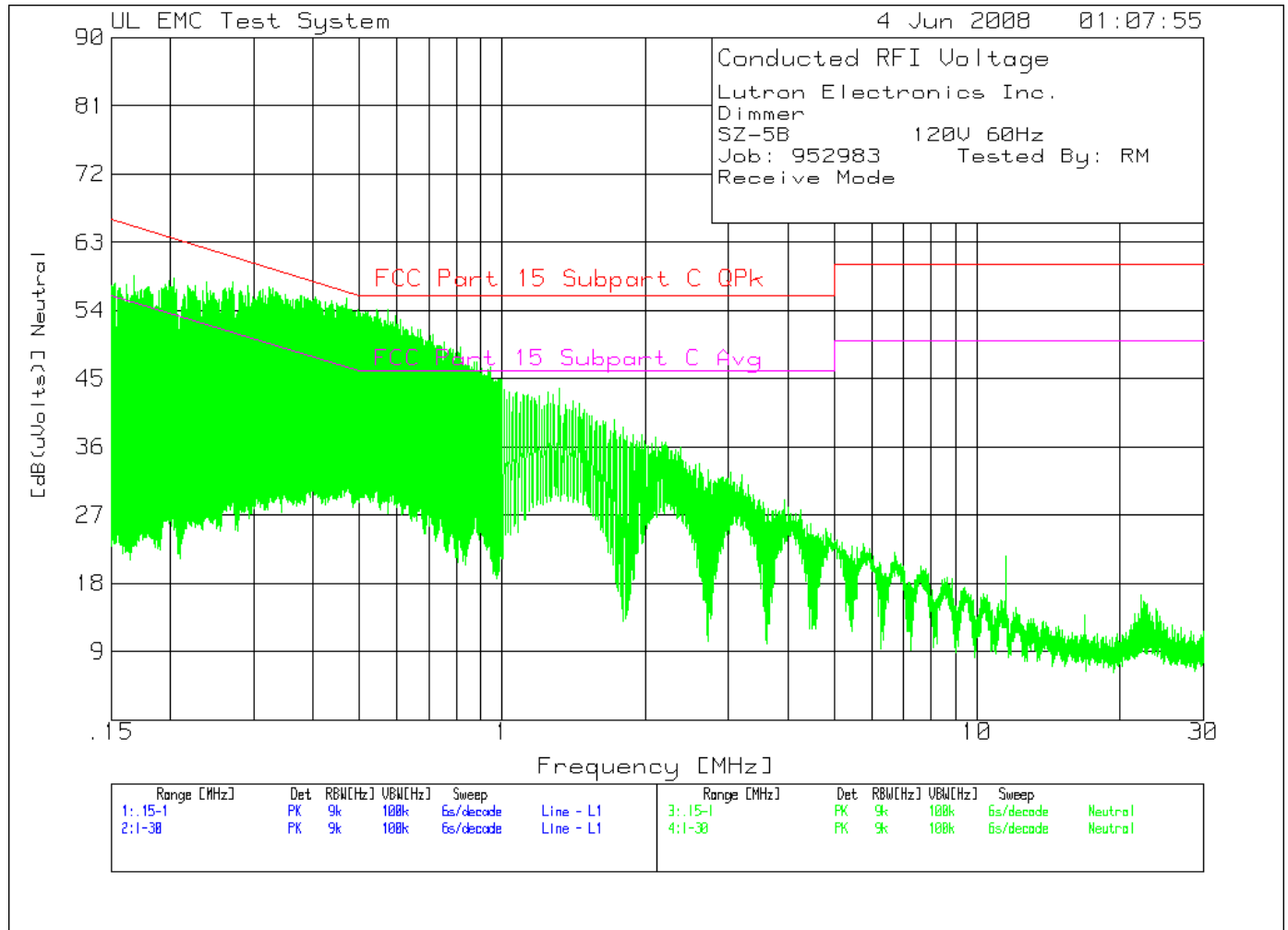


Table 3 Conducted Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode

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	.1551	45.44 pk	12	0	57.44	65.7	55.7	-	-	-	-
				Margin [dB]		-8.26	1.74	-	-	-	-
2	.16139	45.78 pk	11.9	0	57.68	65.4	55.4	-	-	-	-
				Margin [dB]		-7.72	2.28	-	-	-	-
3	.16666	45.51 pk	11.8	0	57.31	65.1	55.1	-	-	-	-
				Margin [dB]		-7.79	2.21	-	-	-	-
4	.175	45.8 pk	11.7	0	57.5	64.7	54.7	-	-	-	-
				Margin [dB]		-7.2	2.8	-	-	-	-
5	.18027	45.71 pk	11.6	0	57.31	64.5	54.5	-	-	-	-
				Margin [dB]		-7.19	2.81	-	-	-	-
6	.1886	45.24 pk	11.5	0	56.74	64.1	54.1	-	-	-	-
				Margin [dB]		-7.36	2.64	-	-	-	-
7	.19897	45.82 pk	11.4	0	57.22	63.7	53.7	-	-	-	-
				Margin [dB]		-6.48	3.52	-	-	-	-
8	.22175	46.01 pk	11.2	0	57.21	62.8	52.8	-	-	-	-
				Margin [dB]		-5.59	4.41	-	-	-	-
9	.2323	45.93 pk	11.2	0	57.13	62.4	52.4	-	-	-	-
				Margin [dB]		-5.27	4.73	-	-	-	-
10	.23621	47.18 pk	11.1	0	58.28	62.2	52.2	-	-	-	-
				Margin [dB]		-3.92	6.08	-	-	-	-
11	.24658	45.81 pk	11.1	0	56.91	61.9	51.9	-	-	-	-
				Margin [dB]		-4.99	5.01	-	-	-	-
12	.25814	46.57 pk	11	0	57.57	61.5	51.5	-	-	-	-
				Margin [dB]		-3.93	6.07	-	-	-	-
13	.26528	46.28 pk	11	0	57.28	61.3	51.3	-	-	-	-
				Margin [dB]		-4.02	5.98	-	-	-	-
14	.27157	46.86 pk	10.9	0	57.76	61.1	51.1	-	-	-	-
				Margin [dB]		-3.34	6.66	-	-	-	-
15	.28297	45.4 pk	10.9	0	56.3	60.7	50.7	-	-	-	-
				Margin [dB]		-4.4	5.6	-	-	-	-
16	.29453	45.95 pk	10.9	0	56.85	60.4	50.4	-	-	-	-
				Margin [dB]		-3.55	6.45	-	-	-	-
17	.30286	45.46 pk	10.8	0	56.26	60.2	50.2	-	-	-	-
				Margin [dB]		-3.94	6.06	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - average detector
 avlg - average log detection
 ave - average detection
 cav - CISPR average detection

Job Number: 952983 File Number: MC15896 Page 18 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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											
18	.31646	45.74 pk	10.8	0	56.54	59.8	49.8	-	-	-	-
				Margin [dB]		-3.26	6.74	-	-	-	-
19	.32548	46.12 pk	10.8	0	56.92	59.6	49.6	-	-	-	-
				Margin [dB]		-2.68	7.32	-	-	-	-
20	.33381	45.54 pk	10.7	0	56.24	59.4	49.4	-	-	-	-
				Margin [dB]		-3.16	6.84	-	-	-	-
21	.34639	45.28 pk	10.7	0	55.98	59	49	-	-	-	-
				Margin [dB]		-3.02	6.98	-	-	-	-
22	.35999	45 pk	10.7	0	55.7	58.7	48.7	-	-	-	-
				Margin [dB]		-3	7	-	-	-	-
23	.38601	46.48 pk	10.6	0	57.08	58.1	48.1	-	-	-	-
				Margin [dB]		-1.02	8.98	-	-	-	-
24	.39638	44.93 pk	10.6	0	55.53	57.9	47.9	-	-	-	-
				Margin [dB]		-2.37	7.63	-	-	-	-
25	.40471	44.95 pk	10.6	0	55.55	57.8	47.8	-	-	-	-
				Margin [dB]		-2.25	7.75	-	-	-	-
26	.41321	44.25 pk	10.6	0	54.85	57.6	47.6	-	-	-	-
				Margin [dB]		-2.75	7.25	-	-	-	-
27	.42869	44.53 pk	10.6	0	55.13	57.3	47.3	-	-	-	-
				Margin [dB]		-2.17	7.83	-	-	-	-
28	.44229	44.1 pk	10.6	0	54.7	57	47	-	-	-	-
				Margin [dB]		-2.3	7.7	-	-	-	-
29	.45487	45.73 pk	10.5	0	56.23	56.8	46.8	-	-	-	-
				Margin [dB]		-0.57	9.43	-	-	-	-
30	.46745	44.5 pk	10.5	0	55	56.6	46.6	-	-	-	-
				Margin [dB]		-1.6	8.4	-	-	-	-
31	.49704	42.84 pk	10.5	0	53.34	56	46	-	-	-	-
				Margin [dB]		-2.66	7.34	-	-	-	-
32	.51795	43.61 pk	10.5	0	54.11	56	46	-	-	-	-
				Margin [dB]		-1.89	8.11	-	-	-	-
33	.54278	43.12 pk	10.5	0	53.62	56	46	-	-	-	-
				Margin [dB]		-2.38	7.62	-	-	-	-
34	.57407	42.69 pk	10.5	0	53.19	56	46	-	-	-	-
				Margin [dB]		-2.81	7.19	-	-	-	-
35	.61215	41.87 pk	10.5	0	52.37	56	46	-	-	-	-
				Margin [dB]		-3.63	6.37	-	-	-	-
36	.63919	41.81 pk	10.4	0	52.21	56	46	-	-	-	-
				Margin [dB]		-3.79	6.21	-	-	-	-
37	.67762	40.39 pk	10.4	0	50.79	56	46	-	-	-	-
				Margin [dB]		-5.21	4.79	-	-	-	-
38	.70992	40.56 pk	10.4	0	50.96	56	46	-	-	-	-
				Margin [dB]		-5.04	4.96	-	-	-	-
39	.74121	39.09 pk	10.4	0	49.49	56	46	-	-	-	-
				Margin [dB]		-6.51	3.49	-	-	-	-
40	.77607	37.22 pk	10.4	0	47.62	56	46	-	-	-	-
				Margin [dB]		-8.38	1.62	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - average detector
 avlg - average log detection
 ave - average detection
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Job Number: 952983 File Number: MC15896 Page 19 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 -----											
41	.80837	37.41 pk	10.4	0	47.81	56	46	-	-	-	-
				Margin [dB]		-8.19	1.81	-	-	-	-
42	.88319	37.46 pk	10.4	0	47.86	56	46	-	-	-	-
				Margin [dB]		-8.14	1.86	-	-	-	-
43	.94406	36.01 pk	10.4	0	46.41	56	46	-	-	-	-
				Margin [dB]		-9.59	.41	-	-	-	-

Line - L1 1 - 30MHz -----											
44	1.05221	32.94 pk	10.4	0	43.34	56	46	-	-	-	-
				Margin [dB]		-12.66	-2.66	-	-	-	-
45	1.16243	33.23 pk	10.3	0	43.53	56	46	-	-	-	-
				Margin [dB]		-12.47	-2.47	-	-	-	-
46	1.23205	32.12 pk	10.3	0	42.42	56	46	-	-	-	-
				Margin [dB]		-13.58	-3.58	-	-	-	-
47	1.36547	30.67 pk	10.3	0	40.97	56	46	-	-	-	-
				Margin [dB]		-15.03	-5.03	-	-	-	-
48	1.41768	30.32 pk	10.3	0	40.62	56	46	-	-	-	-
				Margin [dB]		-15.38	-5.38	-	-	-	-
49	1.52791	29.12 pk	10.3	0	39.42	56	46	-	-	-	-
				Margin [dB]		-16.58	-6.58	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - average detector
 avlg - average log detection
 ave - average detection
 cav - CISPR average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode

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										
.15429	41.99 qp	12	0	53.99	65.8	55.8	-	-	-	-
			Margin [dB]:		-11.81	-1.81	-	-	-	-
.16017	40.26 qp	11.9	0	52.16	65.5	55.5	-	-	-	-
			Margin [dB]:		-13.34	-3.34	-	-	-	-
.16721	40.41 qp	11.8	0	52.21	65.1	55.1	-	-	-	-
			Margin [dB]:		-12.89	-2.89	-	-	-	-
.1755	41.87 qp	11.7	0	53.57	64.7	54.7	-	-	-	-
			Margin [dB]:		-11.13	-1.13	-	-	-	-
.17957	41.63 qp	11.7	0	53.33	64.5	54.5	-	-	-	-
			Margin [dB]:		-11.17	-1.17	-	-	-	-
.18884	37.95 qp	11.5	0	49.45	64.1	54.1	-	-	-	-
			Margin [dB]:		-14.65	-4.65	-	-	-	-
.19916	42.56 qp	11.4	0	53.96	63.7	53.7	-	-	-	-
			Margin [dB]:		-9.74	.26	-	-	-	-
.22105	41.75 qp	11.2	0	52.95	62.8	52.8	-	-	-	-
			Margin [dB]:		-9.85	.15	-	-	-	-
.23338	40.17 qp	11.2	0	51.37	62.4	52.4	-	-	-	-
			Margin [dB]:		-11.03	-1.03	-	-	-	-
.23687	40.83 qp	11.1	0	51.93	62.2	52.2	-	-	-	-
			Margin [dB]:		-10.27	-.27	-	-	-	-
.24572	41.78 qp	11.1	0	52.88	61.9	51.9	-	-	-	-
			Margin [dB]:		-9.02	.98	-	-	-	-
.25925	42.77 qp	11	0	53.77	61.4	51.4	-	-	-	-
			Margin [dB]:		-7.63	2.37	-	-	-	-
.26496	42.38 qp	11	0	53.38	61.3	51.3	-	-	-	-
			Margin [dB]:		-7.92	2.08	-	-	-	-
.27012	42.64 qp	11	0	53.64	61.1	51.1	-	-	-	-
			Margin [dB]:		-7.46	2.54	-	-	-	-
.28406	41.57 qp	10.9	0	52.47	60.7	50.7	-	-	-	-
			Margin [dB]:		-8.23	1.77	-	-	-	-
.29397	40.44 qp	10.9	0	51.34	60.4	50.4	-	-	-	-
			Margin [dB]:		-9.06	.94	-	-	-	-
.30277	41.53 qp	10.8	0	52.33	60.1	50.1	-	-	-	-
			Margin [dB]:		-7.77	2.23	-	-	-	-
.31533	40.73 qp	10.8	0	51.53	59.8	49.8	-	-	-	-
			Margin [dB]:		-8.27	1.73	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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										
.32664	41.96 qp	10.8	0	52.76	59.5	49.5	-	-	-	-
				Margin [dB]:	-6.74	3.26	-	-	-	-
.3329	41.71 qp	10.7	0	52.41	59.4	49.4	-	-	-	-
				Margin [dB]:	-6.99	3.01	-	-	-	-
.34717	41.76 qp	10.7	0	52.46	59	49	-	-	-	-
				Margin [dB]:	-6.54	3.46	-	-	-	-
.35965	40.41 qp	10.7	0	51.11	58.7	48.7	-	-	-	-
				Margin [dB]:	-7.59	2.41	-	-	-	-
.38725	40.48 qp	10.6	0	51.08	58.1	48.1	-	-	-	-
				Margin [dB]:	-7.02	2.98	-	-	-	-
.39595	40.97 qp	10.6	0	51.57	57.9	47.9	-	-	-	-
				Margin [dB]:	-6.33	3.67	-	-	-	-
.40469	41.1 qp	10.6	0	51.7	57.8	47.8	-	-	-	-
				Margin [dB]:	-6.1	3.9	-	-	-	-
.41387	40.32 qp	10.6	0	50.92	57.6	47.6	-	-	-	-
				Margin [dB]:	-6.68	3.32	-	-	-	-
.42913	39.53 qp	10.6	0	50.13	57.3	47.3	-	-	-	-
				Margin [dB]:	-7.17	2.83	-	-	-	-
.44136	39.65 qp	10.6	0	50.25	57	47	-	-	-	-
				Margin [dB]:	-6.75	3.25	-	-	-	-
.45501	40.37 qp	10.5	0	50.87	56.8	46.8	-	-	-	-
				Margin [dB]:	-5.93	4.07	-	-	-	-
.46786	39.72 qp	10.5	0	50.22	56.6	46.6	-	-	-	-
				Margin [dB]:	-6.38	3.62	-	-	-	-
.49755	38.57 qp	10.5	0	49.07	56.1	46.1	-	-	-	-
				Margin [dB]:	-7.03	2.97	-	-	-	-
.51828	39.29 qp	10.5	0	49.79	56	46	-	-	-	-
				Margin [dB]:	-6.21	3.79	-	-	-	-
.54287	38.65 qp	10.5	0	49.15	56	46	-	-	-	-
				Margin [dB]:	-6.85	3.15	-	-	-	-
.57337	35.89 qp	10.5	0	46.39	56	46	-	-	-	-
				Margin [dB]:	-9.61	.39	-	-	-	-
.61078	36.12 qp	10.5	0	46.62	56	46	-	-	-	-
				Margin [dB]:	-9.38	.62	-	-	-	-
.63838	33.51 qp	10.4	0	43.91	56	46	-	-	-	-
				Margin [dB]:	-12.09	-2.09	-	-	-	-
.67739	33.25 qp	10.4	0	43.65	56	46	-	-	-	-
				Margin [dB]:	-12.35	-2.35	-	-	-	-
.71054	31.67 qp	10.4	0	42.07	56	46	-	-	-	-
				Margin [dB]:	-13.93	-3.93	-	-	-	-
.74116	30.56 qp	10.4	0	40.96	56	46	-	-	-	-
				Margin [dB]:	-15.04	-5.04	-	-	-	-
.77719	28.41 qp	10.4	0	38.81	56	46	-	-	-	-
				Margin [dB]:	-17.19	-7.19	-	-	-	-
.80938	26.41 qp	10.4	0	36.81	56	46	-	-	-	-
				Margin [dB]:	-19.19	-9.19	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 22 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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										
.88256	22.16 qp	10.4	0	32.56	56	46	-	-	-	-
			Margin [dB]:		-23.44	-13.44	-	-	-	-
.94405	18.52 qp	10.4	0	28.92	56	46	-	-	-	-
			Margin [dB]:		-27.08	-17.08	-	-	-	-
Line - L1 1 - 30MHz										
1.06913	19.34 qp	10.4	0	29.74	56	46	-	-	-	-
			Margin [dB]:		-26.26	-16.26	-	-	-	-
1.17354	20.96 qp	10.3	0	31.26	56	46	-	-	-	-
			Margin [dB]:		-24.74	-14.74	-	-	-	-
1.2446	21.04 qp	10.3	0	31.34	56	46	-	-	-	-
			Margin [dB]:		-24.66	-14.66	-	-	-	-
1.37106	21.58 qp	10.3	0	31.88	56	46	-	-	-	-
			Margin [dB]:		-24.12	-14.12	-	-	-	-
1.39351	21.59 qp	10.3	0	31.89	56	46	-	-	-	-
			Margin [dB]:		-24.11	-14.11	-	-	-	-
1.51501	19.73 qp	10.3	0	30.03	56	46	-	-	-	-
			Margin [dB]:		-25.97	-15.97	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode

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										
.15429	22.41 ave	12	0	34.41	65.8	55.8	-	-	-	-
			Margin [dB]:		-31.39	-21.39	-	-	-	-
.16017	20.77 ave	11.9	0	32.67	65.5	55.5	-	-	-	-
			Margin [dB]:		-32.83	-22.83	-	-	-	-
.16721	20.12 ave	11.8	0	31.92	65.1	55.1	-	-	-	-
			Margin [dB]:		-33.18	-23.18	-	-	-	-
.1755	22.15 ave	11.7	0	33.85	64.7	54.7	-	-	-	-
			Margin [dB]:		-30.85	-20.85	-	-	-	-
.17957	22.29 ave	11.7	0	33.99	64.5	54.5	-	-	-	-
			Margin [dB]:		-30.51	-20.51	-	-	-	-
.18884	18.11 ave	11.5	0	29.61	64.1	54.1	-	-	-	-
			Margin [dB]:		-34.49	-24.49	-	-	-	-
.19916	23.85 ave	11.4	0	35.25	63.6	53.6	-	-	-	-
			Margin [dB]:		-28.35	-18.35	-	-	-	-
.22105	22.02 ave	11.2	0	33.22	62.8	52.8	-	-	-	-
			Margin [dB]:		-29.58	-19.58	-	-	-	-
.23338	20.54 ave	11.2	0	31.74	62.3	52.3	-	-	-	-
			Margin [dB]:		-30.56	-20.56	-	-	-	-
.23687	21.66 ave	11.1	0	32.76	62.2	52.2	-	-	-	-
			Margin [dB]:		-29.44	-19.44	-	-	-	-
.24572	22.59 ave	11.1	0	33.69	61.9	51.9	-	-	-	-
			Margin [dB]:		-28.21	-18.21	-	-	-	-
.25925	21.64 ave	11	0	32.64	61.5	51.5	-	-	-	-
			Margin [dB]:		-28.86	-18.86	-	-	-	-
.26496	23.24 ave	11	0	34.24	61.3	51.3	-	-	-	-
			Margin [dB]:		-27.06	-17.06	-	-	-	-
.27012	22.19 ave	11	0	33.19	61.1	51.1	-	-	-	-
			Margin [dB]:		-27.91	-17.91	-	-	-	-
.28406	21.88 ave	10.9	0	32.78	60.7	50.7	-	-	-	-
			Margin [dB]:		-27.92	-17.92	-	-	-	-
.29397	21.48 ave	10.9	0	32.38	60.4	50.4	-	-	-	-
			Margin [dB]:		-28.02	-18.02	-	-	-	-
.30277	22.2 ave	10.8	0	33	60.2	50.2	-	-	-	-
			Margin [dB]:		-27.2	-17.2	-	-	-	-
.31533	21.26 ave	10.8	0	32.06	59.8	49.8	-	-	-	-
			Margin [dB]:		-27.74	-17.74	-	-	-	-
.32664	21.98 ave	10.8	0	32.78	59.5	49.5	-	-	-	-
			Margin [dB]:		-26.72	-16.72	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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										
.3329	21.74 ave	10.7	0	32.44	59.4	49.4	-	-	-	-
			Margin [dB]:		-26.96	-16.96	-	-	-	-
.34717	21.05 ave	10.7	0	31.75	59	49	-	-	-	-
			Margin [dB]:		-27.25	-17.25	-	-	-	-
.35965	21.49 ave	10.7	0	32.19	58.7	48.7	-	-	-	-
			Margin [dB]:		-26.51	-16.51	-	-	-	-
.38725	21.24 ave	10.6	0	31.84	58.1	48.1	-	-	-	-
			Margin [dB]:		-26.26	-16.26	-	-	-	-
.39595	21.21 ave	10.6	0	31.81	57.9	47.9	-	-	-	-
			Margin [dB]:		-26.09	-16.09	-	-	-	-
.40469	21.11 ave	10.6	0	31.71	57.8	47.8	-	-	-	-
			Margin [dB]:		-26.09	-16.09	-	-	-	-
.41387	20.86 ave	10.6	0	31.46	57.6	47.6	-	-	-	-
			Margin [dB]:		-26.14	-16.14	-	-	-	-
.42913	21.28 ave	10.6	0	31.88	57.3	47.3	-	-	-	-
			Margin [dB]:		-25.42	-15.42	-	-	-	-
.44136	20.94 ave	10.6	0	31.54	57	47	-	-	-	-
			Margin [dB]:		-25.46	-15.46	-	-	-	-
.45501	21.25 ave	10.5	0	31.75	56.8	46.8	-	-	-	-
			Margin [dB]:		-25.05	-15.05	-	-	-	-
.46786	19.98 ave	10.5	0	30.48	56.6	46.6	-	-	-	-
			Margin [dB]:		-26.12	-16.12	-	-	-	-
.49755	21.02 ave	10.5	0	31.52	56	46	-	-	-	-
			Margin [dB]:		-24.48	-14.48	-	-	-	-
.51828	21.19 ave	10.5	0	31.69	56	46	-	-	-	-
			Margin [dB]:		-24.31	-14.31	-	-	-	-
.54287	21.24 ave	10.5	0	31.74	56	46	-	-	-	-
			Margin [dB]:		-24.26	-14.26	-	-	-	-
.57337	19.41 ave	10.5	0	29.91	56	46	-	-	-	-
			Margin [dB]:		-26.09	-16.09	-	-	-	-
.61078	20.48 ave	10.5	0	30.98	56	46	-	-	-	-
			Margin [dB]:		-25.02	-15.02	-	-	-	-
.63838	19.06 ave	10.4	0	29.46	56	46	-	-	-	-
			Margin [dB]:		-26.54	-16.54	-	-	-	-
.67739	19.61 ave	10.4	0	30.01	56	46	-	-	-	-
			Margin [dB]:		-25.99	-15.99	-	-	-	-
.71054	18.24 ave	10.4	0	28.64	56	46	-	-	-	-
			Margin [dB]:		-27.36	-17.36	-	-	-	-
.74116	16.88 ave	10.4	0	27.28	56	46	-	-	-	-
			Margin [dB]:		-28.72	-18.72	-	-	-	-
.77719	13.94 ave	10.4	0	24.34	56	46	-	-	-	-
			Margin [dB]:		-31.66	-21.66	-	-	-	-
.80938	11.1 ave	10.4	0	21.5	56	46	-	-	-	-
			Margin [dB]:		-34.5	-24.5	-	-	-	-
.88256	10.82 ave	10.4	0	21.22	56	46	-	-	-	-
			Margin [dB]:		-34.78	-24.78	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 25 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 .94405	.15 - 1MHz 7.08 ave	10.4	0	17.48	56	46	-	-	-	-
			Margin [dB]:		-38.52	-28.52	-	-	-	-
Line - L1 1.06913	1 - 30MHz 7.57 ave	10.4	0	17.97	56	46	-	-	-	-
			Margin [dB]:		-38.03	-28.03	-	-	-	-
1.17354	7.4 ave	10.3	0	17.7	56	46	-	-	-	-
			Margin [dB]:		-38.3	-28.3	-	-	-	-
1.2446	7.64 ave	10.3	0	17.94	56	46	-	-	-	-
			Margin [dB]:		-38.06	-28.06	-	-	-	-
1.37106	8.51 ave	10.3	0	18.81	56	46	-	-	-	-
			Margin [dB]:		-37.19	-27.19	-	-	-	-
1.39351	8.78 ave	10.3	0	19.08	56	46	-	-	-	-
			Margin [dB]:		-36.92	-26.92	-	-	-	-
1.51501	7.18 ave	10.3	0	17.48	56	46	-	-	-	-
			Margin [dB]:		-38.52	-28.52	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Figure 4 Conducted Emissions Graph

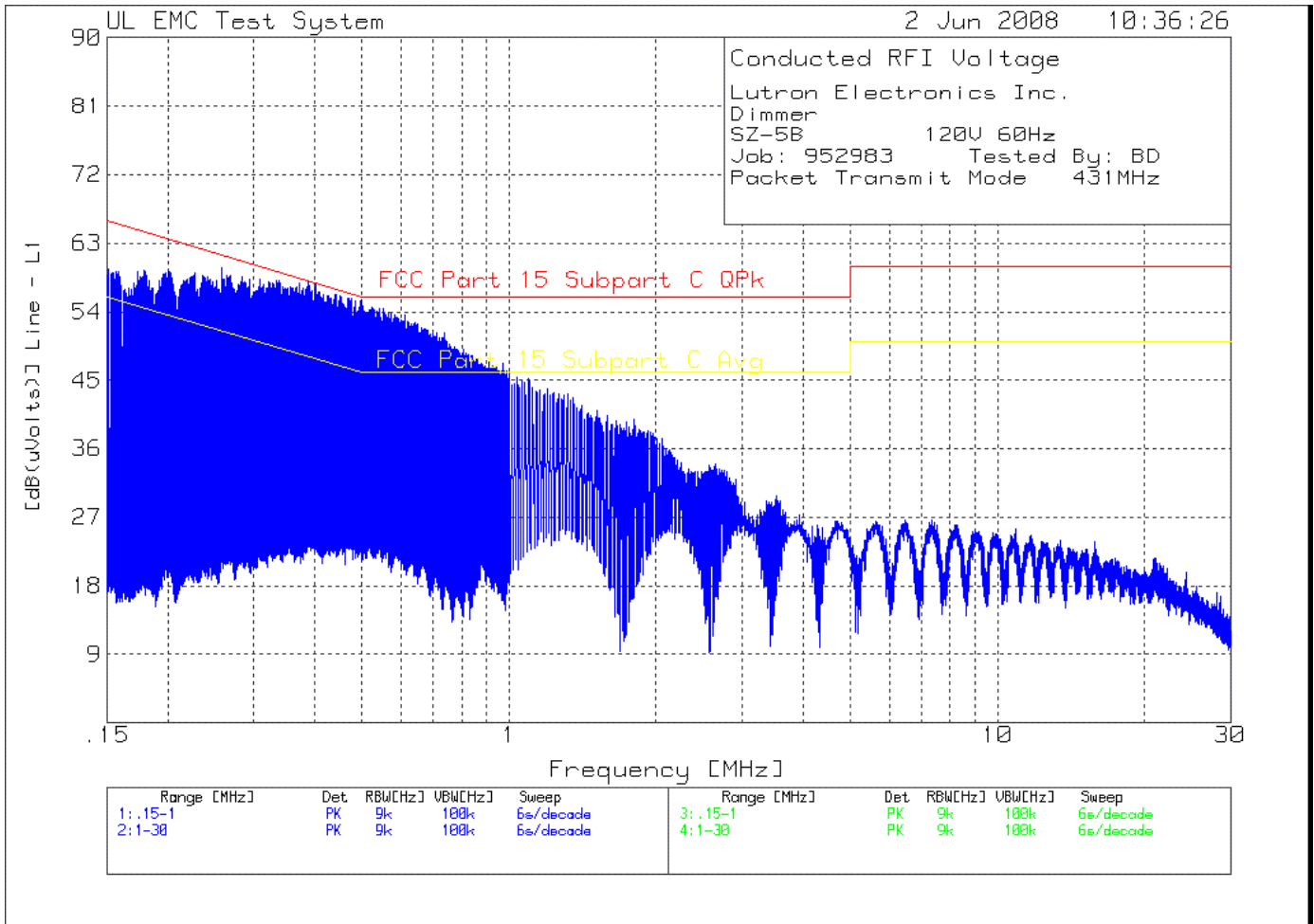


Figure 5 Conducted Emissions Graph

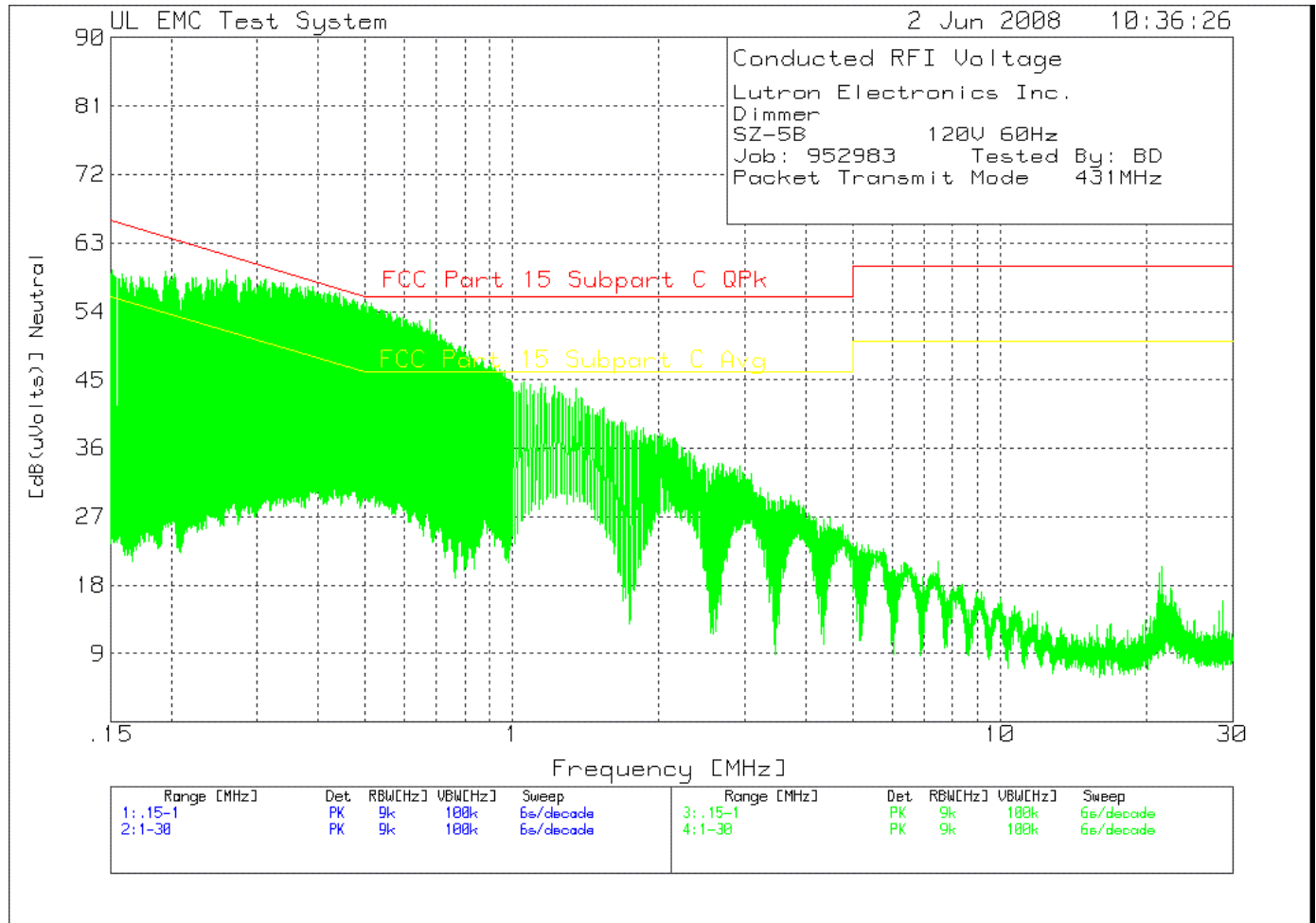


Table 4 Conducted Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 431MHz

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	-	-	-	-	-	-	-	-
22	.20152	47.82 pk	11.4	0	59.22	63.5	53.5	-	-	-	-
				Margin [dB]		-4.28	5.72	-	-	-	-
23	.22669	47.89 pk	11.2	0	59.09	62.6	52.6	-	-	-	-
				Margin [dB]		-3.51	6.49	-	-	-	-
24	.25831	48.85 pk	11	0	59.85	61.5	51.5	-	-	-	-
				Margin [dB]		-1.65	8.35	-	-	-	-
25	.29385	47.37 pk	10.9	0	58.27	60.4	50.4	-	-	-	-
				Margin [dB]		-2.13	7.87	-	-	-	-
26	.3219	47.06 pk	10.8	0	57.86	59.7	49.7	-	-	-	-
				Margin [dB]		-1.84	8.16	-	-	-	-
27	.36662	46.6 pk	10.7	0	57.3	58.6	48.6	-	-	-	-
				Margin [dB]		-1.3	8.7	-	-	-	-
28	.40216	47.22 pk	10.6	0	57.82	57.8	47.8	-	-	-	-
				Margin [dB]		.02	10.02	-	-	-	-
29	.45504	44.59 pk	10.5	0	55.09	56.8	46.8	-	-	-	-
				Margin [dB]		-1.71	8.29	-	-	-	-
30	.50316	44.31 pk	10.5	0	54.81	56	46	-	-	-	-
				Margin [dB]		-1.19	8.81	-	-	-	-
31	.5523	43.95 pk	10.5	0	54.45	56	46	-	-	-	-
				Margin [dB]		-1.55	8.45	-	-	-	-
32	.6244	42.01 pk	10.5	0	52.51	56	46	-	-	-	-
				Margin [dB]		-3.49	6.51	-	-	-	-
33	.69972	40.68 pk	10.4	0	51.08	56	46	-	-	-	-
				Margin [dB]		-4.92	5.08	-	-	-	-
34	.79035	38.11 pk	10.4	0	48.51	56	46	-	-	-	-
				Margin [dB]		-7.49	2.51	-	-	-	-
35	.86227	37.05 pk	10.4	0	47.45	56	46	-	-	-	-
				Margin [dB]		-8.55	1.45	-	-	-	-
36	.98827	35.83 pk	10.4	0	46.23	56	46	-	-	-	-
				Margin [dB]		-9.77	.23	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 - 30MHz -----											
37	1	35.26 pk	10.4	0	45.66	56	46	-	-	-	-
				Margin [dB]		-10.34	- .34	-	-	-	-
38	1.09282	34.76 pk	10.4	0	45.16	56	46	-	-	-	-
				Margin [dB]		-10.84	- .84	-	-	-	-
39	1.19724	33.6 pk	10.3	0	43.9	56	46	-	-	-	-
				Margin [dB]		-12.1	-2.1	-	-	-	-
40	1.31906	32.91 pk	10.3	0	43.21	56	46	-	-	-	-
				Margin [dB]		-12.79	-2.79	-	-	-	-
41	1.41188	31.36 pk	10.3	0	41.66	56	46	-	-	-	-
				Margin [dB]		-14.34	-4.34	-	-	-	-
42	1.5105	30.66 pk	10.3	0	40.96	56	46	-	-	-	-
				Margin [dB]		-15.04	-5.04	-	-	-	-

Neutral .15 - 1MHz -----											
1	.18027	46.66 pk	11.7	0	58.36	64.5	54.5	-	-	-	-
				Margin [dB]		-6.14	3.86	-	-	-	-
2	.19489	47.75 pk	11.5	0	59.25	63.8	53.8	-	-	-	-
				Margin [dB]		-4.55	5.45	-	-	-	-
3	.22516	47.16 pk	11.2	0	58.36	62.6	52.6	-	-	-	-
				Margin [dB]		-4.24	5.76	-	-	-	-
4	.2595	48.38 pk	11	0	59.38	61.4	51.4	-	-	-	-
				Margin [dB]		-2.02	7.98	-	-	-	-
5	.2896	47.53 pk	10.9	0	58.43	60.5	50.5	-	-	-	-
				Margin [dB]		-2.07	7.93	-	-	-	-
6	.32241	46.99 pk	10.8	0	57.79	59.6	49.6	-	-	-	-
				Margin [dB]		-1.81	8.19	-	-	-	-
7	.36101	46.59 pk	10.7	0	57.29	58.7	48.7	-	-	-	-
				Margin [dB]		-1.41	8.59	-	-	-	-
8	.39757	45.82 pk	10.6	0	56.42	57.9	47.9	-	-	-	-
				Margin [dB]		-1.48	8.52	-	-	-	-
9	.44926	45.3 pk	10.6	0	55.9	56.9	46.9	-	-	-	-
				Margin [dB]		-1	9	-	-	-	-
10	.49534	44.57 pk	10.5	0	55.07	56.1	46.1	-	-	-	-
				Margin [dB]		-1.03	8.97	-	-	-	-
11	.56199	43.35 pk	10.5	0	53.85	56	46	-	-	-	-
				Margin [dB]		-2.15	7.85	-	-	-	-
12	.64565	42.21 pk	10.5	0	52.71	56	46	-	-	-	-
				Margin [dB]		-3.29	6.71	-	-	-	-
13	.7339	39.48 pk	10.4	0	49.88	56	46	-	-	-	-
				Margin [dB]		-6.12	3.88	-	-	-	-
14	.84204	36.9 pk	10.4	0	47.3	56	46	-	-	-	-
				Margin [dB]		-8.7	1.3	-	-	-	-
15	.97143	34.67 pk	10.4	0	45.07	56	46	-	-	-	-
				Margin [dB]		-10.93	-.93	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 30 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz -----											
16	1.05801	34.25 pk	10.4	0	44.65	56	46	-	-	-	-
				Margin [dB]		-11.35	-1.35	-	-	-	-
17	1.15083	34.19 pk	10.4	0	44.59	56	46	-	-	-	-
				Margin [dB]		-11.41	-1.41	-	-	-	-
18	1.22044	33.78 pk	10.4	0	44.18	56	46	-	-	-	-
				Margin [dB]		-11.82	-1.82	-	-	-	-
19	1.35387	33.42 pk	10.4	0	43.82	56	46	-	-	-	-
				Margin [dB]		-12.18	-2.18	-	-	-	-
20	1.43509	31.25 pk	10.3	0	41.55	56	46	-	-	-	-
				Margin [dB]		-14.45	-4.45	-	-	-	-
21	1.53951	31.06 pk	10.3	0	41.36	56	46	-	-	-	-
				Margin [dB]		-14.64	-4.64	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 431MHz

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										
.19995	43.1 qp	11.4	0	54.5	63.6	53.6	-	-	-	-
			Margin [dB]:		-9.1	.9	-	-	-	-
.2254	41.27 qp	11.2	0	52.47	62.6	52.6	-	-	-	-
			Margin [dB]:		-10.13	-.13	-	-	-	-
.25946	43.15 qp	11	0	54.15	61.4	51.4	-	-	-	-
			Margin [dB]:		-7.25	2.75	-	-	-	-
.29399	40.84 qp	10.9	0	51.74	60.4	50.4	-	-	-	-
			Margin [dB]:		-8.66	1.34	-	-	-	-
.32307	41.62 qp	10.8	0	52.42	59.6	49.6	-	-	-	-
			Margin [dB]:		-7.18	2.82	-	-	-	-
.36725	40.67 qp	10.7	0	51.37	58.6	48.6	-	-	-	-
			Margin [dB]:		-7.23	2.77	-	-	-	-
.40354	41.16 qp	10.6	0	51.76	57.8	47.8	-	-	-	-
			Margin [dB]:		-6.04	3.96	-	-	-	-
.45417	40.57 qp	10.5	0	51.07	56.8	46.8	-	-	-	-
			Margin [dB]:		-5.73	4.27	-	-	-	-
.502	38.91 qp	10.5	0	49.41	56	46	-	-	-	-
			Margin [dB]:		-6.59	3.41	-	-	-	-
.55171	37.17 qp	10.5	0	47.67	56	46	-	-	-	-
			Margin [dB]:		-8.33	1.67	-	-	-	-
.62534	36.12 qp	10.5	0	46.62	56	46	-	-	-	-
			Margin [dB]:		-9.38	.62	-	-	-	-
.69953	35.17 qp	10.4	0	45.57	56	46	-	-	-	-
			Margin [dB]:		-10.43	-.43	-	-	-	-
.79032	32.94 qp	10.4	0	43.34	56	46	-	-	-	-
			Margin [dB]:		-12.66	-2.66	-	-	-	-
.8629	32.18 qp	10.4	0	42.58	56	46	-	-	-	-
			Margin [dB]:		-13.42	-3.42	-	-	-	-
.98949	29.54 qp	10.4	0	39.94	56	46	-	-	-	-
			Margin [dB]:		-16.06	-6.06	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 - 30MHz										
1.03106	29 qp	10.4	0	39.4	56	46	-	-	-	-
			Margin [dB]:		-16.6	-6.6	-	-	-	-
1.10842	28.48 qp	10.4	0	38.88	56	46	-	-	-	-
			Margin [dB]:		-17.12	-7.12	-	-	-	-
1.19045	28.02 qp	10.3	0	38.32	56	46	-	-	-	-
			Margin [dB]:		-17.68	-7.68	-	-	-	-
1.3078	26.48 qp	10.3	0	36.78	56	46	-	-	-	-
			Margin [dB]:		-19.22	-9.22	-	-	-	-
1.3997	26.12 qp	10.3	0	36.42	56	46	-	-	-	-
			Margin [dB]:		-19.58	-9.58	-	-	-	-
1.49418	24.67 qp	10.3	0	34.97	56	46	-	-	-	-
			Margin [dB]:		-21.03	-11.03	-	-	-	-
Neutral .15 - 1MHz										
.17982	42.22 qp	11.7	0	53.92	64.5	54.5	-	-	-	-
			Margin [dB]:		-10.58	-5.8	-	-	-	-
.19637	43.31 qp	11.5	0	54.81	63.8	53.8	-	-	-	-
			Margin [dB]:		-8.99	1.01	-	-	-	-
.22473	41.86 qp	11.2	0	53.06	62.7	52.7	-	-	-	-
			Margin [dB]:		-9.64	.36	-	-	-	-
.26106	43.37 qp	11	0	54.37	61.4	51.4	-	-	-	-
			Margin [dB]:		-7.03	2.97	-	-	-	-
.28867	41.73 qp	10.9	0	52.63	60.6	50.6	-	-	-	-
			Margin [dB]:		-7.97	2.03	-	-	-	-
.32308	42.41 qp	10.8	0	53.21	59.6	49.6	-	-	-	-
			Margin [dB]:		-6.39	3.61	-	-	-	-
.3605	40.61 qp	10.7	0	51.31	58.7	48.7	-	-	-	-
			Margin [dB]:		-7.39	2.61	-	-	-	-
.39669	41.31 qp	10.6	0	51.91	57.9	47.9	-	-	-	-
			Margin [dB]:		-5.99	4.01	-	-	-	-
.44966	40.11 qp	10.6	0	50.71	56.9	46.9	-	-	-	-
			Margin [dB]:		-6.19	3.81	-	-	-	-
.49534	39.36 qp	10.5	0	49.86	56.1	46.1	-	-	-	-
			Margin [dB]:		-6.24	3.76	-	-	-	-
.56136	38.5 qp	10.5	0	49	56	46	-	-	-	-
			Margin [dB]:		-7	3	-	-	-	-
.64651	37.09 qp	10.5	0	47.59	56	46	-	-	-	-
			Margin [dB]:		-8.41	1.59	-	-	-	-
.73441	34.7 qp	10.4	0	45.1	56	46	-	-	-	-
			Margin [dB]:		-10.9	-.9	-	-	-	-
.84293	32.33 qp	10.4	0	42.73	56	46	-	-	-	-
			Margin [dB]:		-13.27	-3.27	-	-	-	-
.97072	30.34 qp	10.4	0	40.74	56	46	-	-	-	-
			Margin [dB]:		-15.26	-5.26	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 33 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.05961	29.23 qp	10.4	0	39.63	56	46	-	-	-	-
				Margin [dB]:	-16.37	-6.37	-	-	-	-
1.15996	29.19 qp	10.4	0	39.59	56	46	-	-	-	-
				Margin [dB]:	-16.41	-6.41	-	-	-	-
1.21613	29.11 qp	10.4	0	39.51	56	46	-	-	-	-
				Margin [dB]:	-16.49	-6.49	-	-	-	-
1.33679	27.59 qp	10.4	0	37.99	56	46	-	-	-	-
				Margin [dB]:	-18.01	-8.01	-	-	-	-
1.4252	26.98 qp	10.3	0	37.28	56	46	-	-	-	-
				Margin [dB]:	-18.72	-8.72	-	-	-	-
1.52757	25.39 qp	10.3	0	35.69	56	46	-	-	-	-
				Margin [dB]:	-20.31	-10.31	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 431MHz

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										
.19995	24.06 ave	11.4	0	35.46	63.6	53.6	-	-	-	-
			Margin [dB]:		-28.14	-18.14	-	-	-	-
.2254	21.97 ave	11.2	0	33.17	62.6	52.6	-	-	-	-
			Margin [dB]:		-29.43	-19.43	-	-	-	-
.25946	22.35 ave	11	0	33.35	61.4	51.4	-	-	-	-
			Margin [dB]:		-28.05	-18.05	-	-	-	-
.29399	21.66 ave	10.9	0	32.56	60.4	50.4	-	-	-	-
			Margin [dB]:		-27.84	-17.84	-	-	-	-
.32307	21.75 ave	10.8	0	32.55	59.6	49.6	-	-	-	-
			Margin [dB]:		-27.05	-17.05	-	-	-	-
.36725	22.03 ave	10.7	0	32.73	58.6	48.6	-	-	-	-
			Margin [dB]:		-25.87	-15.87	-	-	-	-
.40354	21.29 ave	10.6	0	31.89	57.8	47.8	-	-	-	-
			Margin [dB]:		-25.91	-15.91	-	-	-	-
.45417	21.11 ave	10.5	0	31.61	56.8	46.8	-	-	-	-
			Margin [dB]:		-25.19	-15.19	-	-	-	-
.502	20.45 ave	10.5	0	30.95	56	46	-	-	-	-
			Margin [dB]:		-25.05	-15.05	-	-	-	-
.55171	18.67 ave	10.5	0	29.17	56	46	-	-	-	-
			Margin [dB]:		-26.83	-16.83	-	-	-	-
.62534	18.37 ave	10.5	0	28.87	56	46	-	-	-	-
			Margin [dB]:		-27.13	-17.13	-	-	-	-
.69953	17.3 ave	10.4	0	27.7	56	46	-	-	-	-
			Margin [dB]:		-28.3	-18.3	-	-	-	-
.79032	14.81 ave	10.4	0	25.21	56	46	-	-	-	-
			Margin [dB]:		-30.79	-20.79	-	-	-	-
.8629	14.56 ave	10.4	0	24.96	56	46	-	-	-	-
			Margin [dB]:		-31.04	-21.04	-	-	-	-
.98949	13.12 ave	10.4	0	23.52	56	46	-	-	-	-
			Margin [dB]:		-32.48	-22.48	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 - 30MHz										
1.03106	8.08 ave	10.4	0	18.48	56	46	-	-	-	-
				Margin [dB]:	-37.52	-27.52	-	-	-	-
1.10842	8.82 ave	10.3	0	19.12	56	46	-	-	-	-
				Margin [dB]:	-36.88	-26.88	-	-	-	-
1.19045	9.22 ave	10.3	0	19.52	56	46	-	-	-	-
				Margin [dB]:	-36.48	-26.48	-	-	-	-
1.3078	9.06 ave	10.3	0	19.36	56	46	-	-	-	-
				Margin [dB]:	-36.64	-26.64	-	-	-	-
1.3997	7.89 ave	10.3	0	18.19	56	46	-	-	-	-
				Margin [dB]:	-37.81	-27.81	-	-	-	-
1.49418	7.12 ave	10.3	0	17.42	56	46	-	-	-	-
				Margin [dB]:	-38.58	-28.58	-	-	-	-
Neutral .15 - 1MHz										
.17982	23.59 ave	11.7	0	35.29	64.5	54.5	-	-	-	-
				Margin [dB]:	-29.21	-19.21	-	-	-	-
.19637	24.7 ave	11.5	0	36.2	63.8	53.8	-	-	-	-
				Margin [dB]:	-27.6	-17.6	-	-	-	-
.22473	24.36 ave	11.2	0	35.56	62.6	52.6	-	-	-	-
				Margin [dB]:	-27.04	-17.04	-	-	-	-
.26106	24.12 ave	11	0	35.12	61.4	51.4	-	-	-	-
				Margin [dB]:	-26.28	-16.28	-	-	-	-
.28867	24.11 ave	10.9	0	35.01	60.6	50.6	-	-	-	-
				Margin [dB]:	-25.59	-15.59	-	-	-	-
.32308	23.85 ave	10.8	0	34.65	59.6	49.6	-	-	-	-
				Margin [dB]:	-24.95	-14.95	-	-	-	-
.3605	23.48 ave	10.7	0	34.18	58.7	48.7	-	-	-	-
				Margin [dB]:	-24.52	-14.52	-	-	-	-
.39669	22.96 ave	10.6	0	33.56	57.9	47.9	-	-	-	-
				Margin [dB]:	-24.34	-14.34	-	-	-	-
.44966	22.59 ave	10.6	0	33.19	56.9	46.9	-	-	-	-
				Margin [dB]:	-23.71	-13.71	-	-	-	-
.49534	22.46 ave	10.5	0	32.96	56.1	46.1	-	-	-	-
				Margin [dB]:	-23.14	-13.14	-	-	-	-
.56136	21.69 ave	10.5	0	32.19	56	46	-	-	-	-
				Margin [dB]:	-23.81	-13.81	-	-	-	-
.64651	19.69 ave	10.5	0	30.19	56	46	-	-	-	-
				Margin [dB]:	-25.81	-15.81	-	-	-	-
.73441	16.96 ave	10.4	0	27.36	56	46	-	-	-	-
				Margin [dB]:	-28.64	-18.64	-	-	-	-
.84293	15.34 ave	10.4	0	25.74	56	46	-	-	-	-
				Margin [dB]:	-30.26	-20.26	-	-	-	-
.97072	13.37 ave	10.4	0	23.77	56	46	-	-	-	-
				Margin [dB]:	-32.23	-22.23	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 36 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.05961	15.29 ave	10.4	0	25.69	56	46	-	-	-	-
				Margin [dB]:	-30.31	-20.31	-	-	-	-
1.15996	15.75 ave	10.4	0	26.15	56	46	-	-	-	-
				Margin [dB]:	-29.85	-19.85	-	-	-	-
1.21613	16.4 ave	10.4	0	26.8	56	46	-	-	-	-
				Margin [dB]:	-29.2	-19.2	-	-	-	-
1.33679	15.75 ave	10.4	0	26.15	56	46	-	-	-	-
				Margin [dB]:	-29.85	-19.85	-	-	-	-
1.4252	15.23 ave	10.3	0	25.53	56	46	-	-	-	-
				Margin [dB]:	-30.47	-20.47	-	-	-	-
1.52757	13.41 ave	10.3	0	23.71	56	46	-	-	-	-
				Margin [dB]:	-32.29	-22.29	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Figure 6 Conducted Emissions Graph

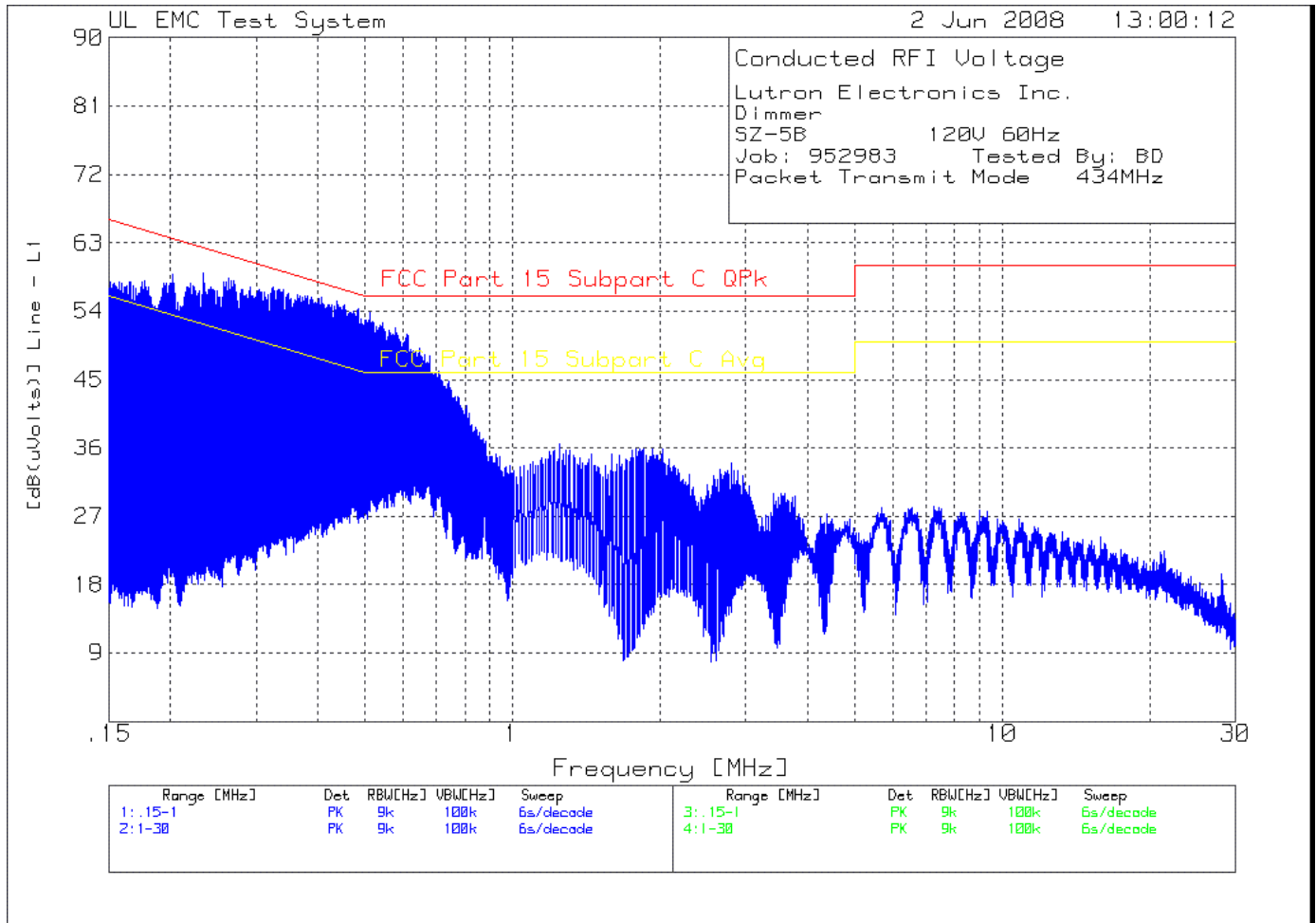


Figure 7 Conducted Emissions Graph

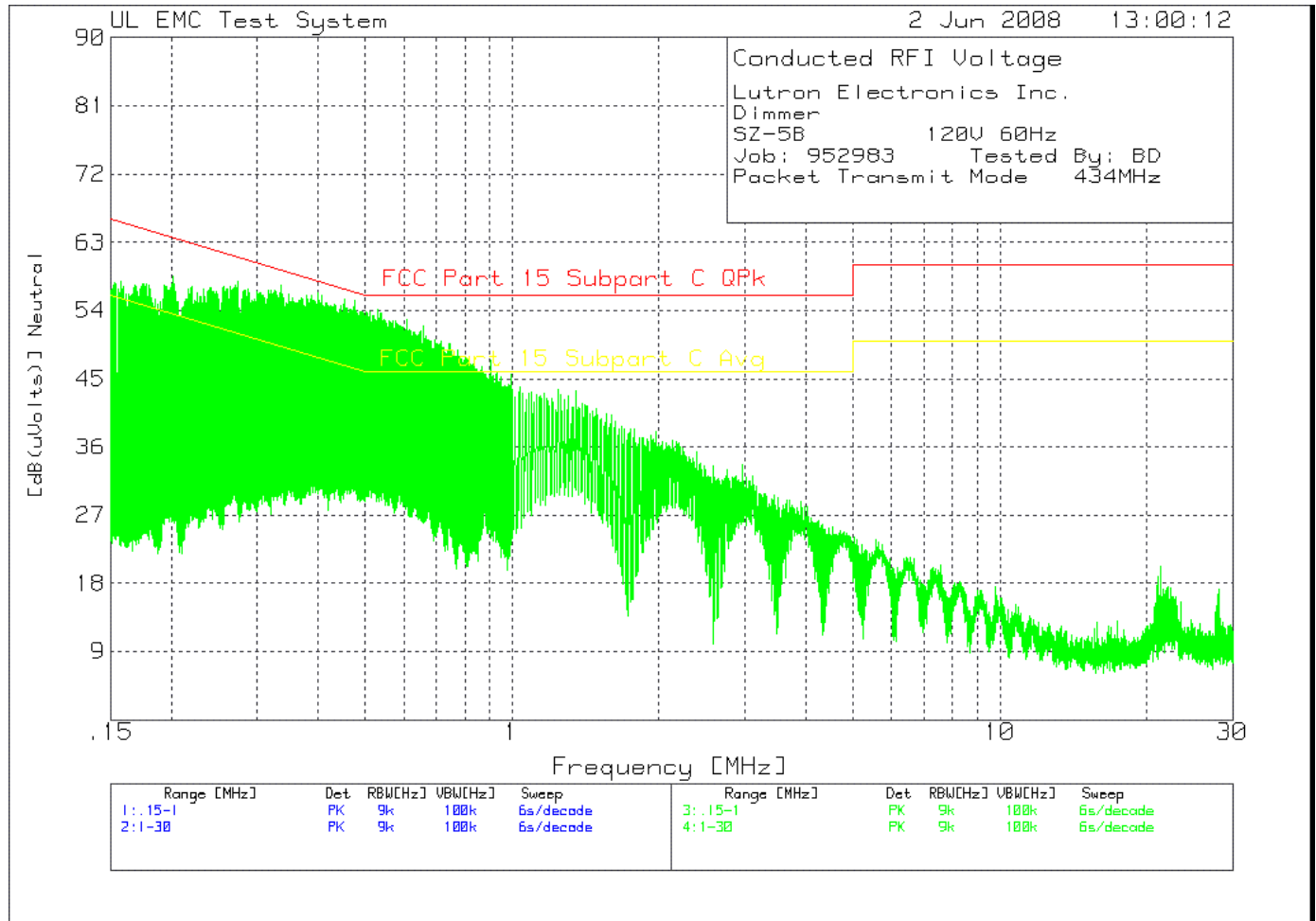


Table 5 Conducted Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 434MHz

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	.20305	47.38 pk	11.4	0	58.78	63.5	53.5	-	-	-	-
				Margin [dB]		-4.72	5.28	-	-	-	-
2	.23434	47.74 pk	11.2	0	58.94	62.3	52.3	-	-	-	-
				Margin [dB]		-3.36	6.64	-	-	-	-
3	.27021	46.95 pk	11	0	57.95	61.1	51.1	-	-	-	-
				Margin [dB]		-3.15	6.85	-	-	-	-
4	.30048	45.51 pk	10.8	0	56.31	60.2	50.2	-	-	-	-
				Margin [dB]		-3.89	6.11	-	-	-	-
5	.33279	46.07 pk	10.8	0	56.87	59.4	49.4	-	-	-	-
				Margin [dB]		-2.53	7.47	-	-	-	-
6	.37751	45.39 pk	10.6	0	55.99	58.3	48.3	-	-	-	-
				Margin [dB]		-2.31	7.69	-	-	-	-
7	.42257	44.18 pk	10.6	0	54.78	57.4	47.4	-	-	-	-
				Margin [dB]		-2.62	7.38	-	-	-	-
8	.44654	44.06 pk	10.5	0	54.56	56.9	46.9	-	-	-	-
				Margin [dB]		-2.34	7.66	-	-	-	-
9	.48395	43.77 pk	10.5	0	54.27	56.3	46.3	-	-	-	-
				Margin [dB]		-2.03	7.97	-	-	-	-
10	.52867	41.46 pk	10.5	0	51.96	56	46	-	-	-	-
				Margin [dB]		-4.04	5.96	-	-	-	-
11	.57696	41.38 pk	10.5	0	51.88	56	46	-	-	-	-
				Margin [dB]		-4.12	5.88	-	-	-	-
12	.62082	38.49 pk	10.5	0	48.99	56	46	-	-	-	-
				Margin [dB]		-7.01	2.99	-	-	-	-
13	.66384	37.88 pk	10.4	0	48.28	56	46	-	-	-	-
				Margin [dB]		-7.72	2.28	-	-	-	-
14	.70023	35.43 pk	10.4	0	45.83	56	46	-	-	-	-
				Margin [dB]		-10.17	-.17	-	-	-	-
15	.74308	34.32 pk	10.4	0	44.72	56	46	-	-	-	-
				Margin [dB]		-11.28	-1.28	-	-	-	-
16	.78627	30.81 pk	10.4	0	41.21	56	46	-	-	-	-
				Margin [dB]		-14.79	-4.79	-	-	-	-
17	.8349	27.79 pk	10.4	0	38.19	56	46	-	-	-	-
				Margin [dB]		-17.81	-7.81	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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
=====											
18	.20135	47.05 pk	11.4	0	58.45	63.6	53.6	-	-	-	-
					Margin [dB]	-5.15	4.85	-	-	-	-
19	.23366	45.65 pk	11.2	0	56.85	62.3	52.3	-	-	-	-
					Margin [dB]	-5.45	4.55	-	-	-	-
20	.26477	46.22 pk	11	0	57.22	61.3	51.3	-	-	-	-
					Margin [dB]	-4.08	5.92	-	-	-	-
21	.30031	45.53 pk	10.9	0	56.43	60.2	50.2	-	-	-	-
					Margin [dB]	-3.77	6.23	-	-	-	-
22	.32701	45.79 pk	10.8	0	56.59	59.5	49.5	-	-	-	-
					Margin [dB]	-2.91	7.09	-	-	-	-
23	.3707	44.9 pk	10.7	0	55.6	58.5	48.5	-	-	-	-
					Margin [dB]	-2.9	7.1	-	-	-	-
24	.40709	45.46 pk	10.6	0	56.06	57.7	47.7	-	-	-	-
					Margin [dB]	-1.64	8.36	-	-	-	-
25	.43226	44.3 pk	10.6	0	54.9	57.2	47.2	-	-	-	-
					Margin [dB]	-2.3	7.7	-	-	-	-
26	.47392	44.06 pk	10.5	0	54.56	56.4	46.4	-	-	-	-
					Margin [dB]	-1.84	8.16	-	-	-	-
27	.51149	43.23 pk	10.5	0	53.73	56	46	-	-	-	-
					Margin [dB]	-2.27	7.73	-	-	-	-
28	.53972	43.12 pk	10.5	0	53.62	56	46	-	-	-	-
					Margin [dB]	-2.38	7.62	-	-	-	-
29	.58104	41.77 pk	10.5	0	52.27	56	46	-	-	-	-
					Margin [dB]	-3.73	6.27	-	-	-	-
30	.61538	40.89 pk	10.5	0	51.39	56	46	-	-	-	-
					Margin [dB]	-4.61	5.39	-	-	-	-
31	.65602	40.13 pk	10.5	0	50.63	56	46	-	-	-	-
					Margin [dB]	-5.37	4.63	-	-	-	-
32	.69938	39.16 pk	10.4	0	49.56	56	46	-	-	-	-
					Margin [dB]	-6.44	3.56	-	-	-	-
33	.74019	39.15 pk	10.4	0	49.55	56	46	-	-	-	-
					Margin [dB]	-6.45	3.55	-	-	-	-
34	.79987	37.34 pk	10.4	0	47.74	56	46	-	-	-	-
					Margin [dB]	-8.26	1.74	-	-	-	-
35	.82895	36.56 pk	10.4	0	46.96	56	46	-	-	-	-
					Margin [dB]	-9.04	.96	-	-	-	-
36	.85428	35.6 pk	10.4	0	46	56	46	-	-	-	-
					Margin [dB]	-10	0	-	-	-	-
37	.89271	34.52 pk	10.4	0	44.92	56	46	-	-	-	-
					Margin [dB]	-11.08	-1.08	-	-	-	-
38	.89271	34.52 pk	10.4	0	44.92	56	46	-	-	-	-
					Margin [dB]	-11.08	-1.08	-	-	-	-
39	.96055	33.28 pk	10.4	0	43.68	56	46	-	-	-	-
					Margin [dB]	-12.32	-2.32	-	-	-	-
40	.99592	35.22 pk	10.4	0	45.62	56	46	-	-	-	-
					Margin [dB]	-10.38	-.38	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 41 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz -----											
41	1.04061	33.43 pk	10.4	0	43.83	56	46	-	-	-	-
					Margin [dB]	-12.17	-2.17	-	-	-	-
42	1.09282	32.87 pk	10.4	0	43.27	56	46	-	-	-	-
					Margin [dB]	-12.73	-2.73	-	-	-	-
43	1.16243	32.62 pk	10.4	0	43.02	56	46	-	-	-	-
					Margin [dB]	-12.98	-2.98	-	-	-	-
44	1.24365	33.15 pk	10.4	0	43.55	56	46	-	-	-	-
					Margin [dB]	-12.45	-2.45	-	-	-	-
45	1.30746	32.44 pk	10.3	0	42.74	56	46	-	-	-	-
					Margin [dB]	-13.26	-3.26	-	-	-	-
46	1.34807	33.09 pk	10.4	0	43.49	56	46	-	-	-	-
					Margin [dB]	-12.51	-2.51	-	-	-	-
47	1.40608	31.17 pk	10.4	0	41.57	56	46	-	-	-	-
					Margin [dB]	-14.43	-4.43	-	-	-	-
48	1.4873	30.69 pk	10.3	0	40.99	56	46	-	-	-	-
					Margin [dB]	-15.01	-5.01	-	-	-	-
49	1.56271	29.97 pk	10.4	0	40.37	56	46	-	-	-	-
					Margin [dB]	-15.63	-5.63	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 434MHz

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										
.20145	43.56 qp	11.4	0	54.96	63.5	53.5	-	-	-	-
			Margin [dB]:		-8.54	1.46	-	-	-	-
.2347	41.52 qp	11.1	0	52.62	62.3	52.3	-	-	-	-
			Margin [dB]:		-9.68	.32	-	-	-	-
.26871	43.37 qp	11	0	54.37	61.2	51.2	-	-	-	-
			Margin [dB]:		-6.83	3.17	-	-	-	-
.30114	41.7 qp	10.8	0	52.5	60.2	50.2	-	-	-	-
			Margin [dB]:		-7.7	2.3	-	-	-	-
.33235	42.58 qp	10.8	0	53.38	59.4	49.4	-	-	-	-
			Margin [dB]:		-6.02	3.98	-	-	-	-
.37651	40.85 qp	10.6	0	51.45	58.4	48.4	-	-	-	-
			Margin [dB]:		-6.95	3.05	-	-	-	-
.42233	40.22 qp	10.6	0	50.82	57.4	47.4	-	-	-	-
			Margin [dB]:		-6.58	3.42	-	-	-	-
.44624	40.03 qp	10.5	0	50.53	56.9	46.9	-	-	-	-
			Margin [dB]:		-6.37	3.63	-	-	-	-
.48328	39.03 qp	10.5	0	49.53	56.3	46.3	-	-	-	-
			Margin [dB]:		-6.77	3.23	-	-	-	-
.52786	38.24 qp	10.5	0	48.74	56	46	-	-	-	-
			Margin [dB]:		-7.26	2.74	-	-	-	-
.57766	36.45 qp	10.5	0	46.95	56	46	-	-	-	-
			Margin [dB]:		-9.05	.95	-	-	-	-
.62107	34.29 qp	10.5	0	44.79	56	46	-	-	-	-
			Margin [dB]:		-11.21	-1.21	-	-	-	-
.66434	33.87 qp	10.4	0	44.27	56	46	-	-	-	-
			Margin [dB]:		-11.73	-1.73	-	-	-	-
.70059	32.32 qp	10.4	0	42.72	56	46	-	-	-	-
			Margin [dB]:		-13.28	-3.28	-	-	-	-
.74302	30.21 qp	10.4	0	40.61	56	46	-	-	-	-
			Margin [dB]:		-15.39	-5.39	-	-	-	-
.78578	28.17 qp	10.4	0	38.57	56	46	-	-	-	-
			Margin [dB]:		-17.43	-7.43	-	-	-	-
.83541	23.89 qp	10.4	0	34.29	56	46	-	-	-	-
			Margin [dB]:		-21.71	-11.71	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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										
.19981	43.51 qp	11.4	0	54.91	63.6	53.6	-	-	-	-
				Margin [dB]:	-8.69	1.31	-	-	-	-
.23459	41.71 qp	11.2	0	52.91	62.3	52.3	-	-	-	-
				Margin [dB]:	-9.39	.61	-	-	-	-
.26439	43.32 qp	11	0	54.32	61.3	51.3	-	-	-	-
				Margin [dB]:	-6.98	3.02	-	-	-	-
.30144	41.93 qp	10.9	0	52.83	60.2	50.2	-	-	-	-
				Margin [dB]:	-7.37	2.63	-	-	-	-
.32736	42.75 qp	10.8	0	53.55	59.5	49.5	-	-	-	-
				Margin [dB]:	-5.95	4.05	-	-	-	-
.3707	41.63 qp	10.7	0	52.33	58.5	48.5	-	-	-	-
				Margin [dB]:	-6.17	3.83	-	-	-	-
.40659	41.16 qp	10.6	0	51.76	57.7	47.7	-	-	-	-
				Margin [dB]:	-5.94	4.06	-	-	-	-
.43289	40.39 qp	10.6	0	50.99	57.2	47.2	-	-	-	-
				Margin [dB]:	-6.21	3.79	-	-	-	-
.47436	40.98 qp	10.5	0	51.48	56.4	46.4	-	-	-	-
				Margin [dB]:	-4.92	5.08	-	-	-	-
.51198	39.31 qp	10.5	0	49.81	56	46	-	-	-	-
				Margin [dB]:	-6.19	3.81	-	-	-	-
.54055	39.67 qp	10.5	0	50.17	56	46	-	-	-	-
				Margin [dB]:	-5.83	4.17	-	-	-	-
.5823	39.03 qp	10.5	0	49.53	56	46	-	-	-	-
				Margin [dB]:	-6.47	3.53	-	-	-	-
.61442	37.8 qp	10.5	0	48.3	56	46	-	-	-	-
				Margin [dB]:	-7.7	2.3	-	-	-	-
.65612	37.41 qp	10.5	0	47.91	56	46	-	-	-	-
				Margin [dB]:	-8.09	1.91	-	-	-	-
.69902	35.75 qp	10.4	0	46.15	56	46	-	-	-	-
				Margin [dB]:	-9.85	.15	-	-	-	-
.74095	36.05 qp	10.4	0	46.45	56	46	-	-	-	-
				Margin [dB]:	-9.55	.45	-	-	-	-
.79887	33.38 qp	10.4	0	43.78	56	46	-	-	-	-
				Margin [dB]:	-12.22	-2.22	-	-	-	-
.82889	33.06 qp	10.4	0	43.46	56	46	-	-	-	-
				Margin [dB]:	-12.54	-2.54	-	-	-	-
.85424	32.15 qp	10.4	0	42.55	56	46	-	-	-	-
				Margin [dB]:	-13.45	-3.45	-	-	-	-
.89206	31.31 qp	10.4	0	41.71	56	46	-	-	-	-
				Margin [dB]:	-14.29	-4.29	-	-	-	-
.8921	31.7 qp	10.4	0	42.1	56	46	-	-	-	-
				Margin [dB]:	-13.9	-3.9	-	-	-	-
.96063	29.78 qp	10.4	0	40.18	56	46	-	-	-	-
				Margin [dB]:	-15.82	-5.82	-	-	-	-
.99559	30.41 qp	10.4	0	40.81	56	46	-	-	-	-
				Margin [dB]:	-15.19	-5.19	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 44 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.04431	29.44 qp	10.4	0	39.84	56	46	-	-	-	-
			Margin [dB]:		-16.16	-6.16	-	-	-	-
1.09764	29.23 qp	10.4	0	39.63	56	46	-	-	-	-
			Margin [dB]:		-16.37	-6.37	-	-	-	-
1.17377	28.94 qp	10.4	0	39.34	56	46	-	-	-	-
			Margin [dB]:		-16.66	-6.66	-	-	-	-
1.24483	28.34 qp	10.3	0	38.64	56	46	-	-	-	-
			Margin [dB]:		-17.36	-7.36	-	-	-	-
1.30728	28.06 qp	10.3	0	38.36	56	46	-	-	-	-
			Margin [dB]:		-17.64	-7.64	-	-	-	-
1.33687	28.69 qp	10.4	0	39.09	56	46	-	-	-	-
			Margin [dB]:		-16.91	-6.91	-	-	-	-
1.39034	28.19 qp	10.4	0	38.59	56	46	-	-	-	-
			Margin [dB]:		-17.41	-7.41	-	-	-	-
1.4723	26.12 qp	10.3	0	36.42	56	46	-	-	-	-
			Margin [dB]:		-19.58	-9.58	-	-	-	-
1.54803	25.98 qp	10.3	0	36.28	56	46	-	-	-	-
			Margin [dB]:		-19.72	-9.72	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 434MHz

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										
.20145	23.9 ave	11.4	0	35.3	63.6	53.6	-	-	-	-
			Margin [dB]:		-28.3	-18.3	-	-	-	-
.2347	21.81 ave	11.1	0	32.91	62.3	52.3	-	-	-	-
			Margin [dB]:		-29.39	-19.39	-	-	-	-
.26871	23.23 ave	11	0	34.23	61.2	51.2	-	-	-	-
			Margin [dB]:		-26.97	-16.97	-	-	-	-
.30114	22.41 ave	10.8	0	33.21	60.2	50.2	-	-	-	-
			Margin [dB]:		-26.99	-16.99	-	-	-	-
.33235	22.71 ave	10.8	0	33.51	59.4	49.4	-	-	-	-
			Margin [dB]:		-25.89	-15.89	-	-	-	-
.37651	21.94 ave	10.6	0	32.54	58.4	48.4	-	-	-	-
			Margin [dB]:		-25.86	-15.86	-	-	-	-
.42233	21.17 ave	10.6	0	31.77	57.4	47.4	-	-	-	-
			Margin [dB]:		-25.63	-15.63	-	-	-	-
.44624	20.62 ave	10.5	0	31.12	56.9	46.9	-	-	-	-
			Margin [dB]:		-25.78	-15.78	-	-	-	-
.48328	20.15 ave	10.5	0	30.65	56.3	46.3	-	-	-	-
			Margin [dB]:		-25.65	-15.65	-	-	-	-
.52786	18.84 ave	10.5	0	29.34	56	46	-	-	-	-
			Margin [dB]:		-26.66	-16.66	-	-	-	-
.57766	18.68 ave	10.5	0	29.18	56	46	-	-	-	-
			Margin [dB]:		-26.82	-16.82	-	-	-	-
.62107	17.39 ave	10.5	0	27.89	56	46	-	-	-	-
			Margin [dB]:		-28.11	-18.11	-	-	-	-
.66434	16.54 ave	10.4	0	26.94	56	46	-	-	-	-
			Margin [dB]:		-29.06	-19.06	-	-	-	-
.70059	16.71 ave	10.4	0	27.11	56	46	-	-	-	-
			Margin [dB]:		-28.89	-18.89	-	-	-	-
.74302	16.8 ave	10.4	0	27.2	56	46	-	-	-	-
			Margin [dB]:		-28.8	-18.8	-	-	-	-
.78578	14.87 ave	10.4	0	25.27	56	46	-	-	-	-
			Margin [dB]:		-30.73	-20.73	-	-	-	-
.83541	13.68 ave	10.4	0	24.08	56	46	-	-	-	-
			Margin [dB]:		-31.92	-21.92	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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										
.19981	25.6 ave	11.4	0	37	63.6	53.6	-	-	-	-
			Margin [dB]:		-26.6	-16.6	-	-	-	-
.23459	23.34 ave	11.2	0	34.54	62.3	52.3	-	-	-	-
			Margin [dB]:		-27.76	-17.76	-	-	-	-
.26439	25.28 ave	11	0	36.28	61.3	51.3	-	-	-	-
			Margin [dB]:		-25.02	-15.02	-	-	-	-
.30144	24.27 ave	10.9	0	35.17	60.2	50.2	-	-	-	-
			Margin [dB]:		-25.03	-15.03	-	-	-	-
.32736	24.76 ave	10.8	0	35.56	59.5	49.5	-	-	-	-
			Margin [dB]:		-23.94	-13.94	-	-	-	-
.3707	24.1 ave	10.7	0	34.8	58.5	48.5	-	-	-	-
			Margin [dB]:		-23.7	-13.7	-	-	-	-
.40659	23.65 ave	10.6	0	34.25	57.7	47.7	-	-	-	-
			Margin [dB]:		-23.45	-13.45	-	-	-	-
.43289	23.71 ave	10.6	0	34.31	57.2	47.2	-	-	-	-
			Margin [dB]:		-22.89	-12.89	-	-	-	-
.47436	23.32 ave	10.5	0	33.82	56.4	46.4	-	-	-	-
			Margin [dB]:		-22.58	-12.58	-	-	-	-
.51198	21.8 ave	10.5	0	32.3	56	46	-	-	-	-
			Margin [dB]:		-23.7	-13.7	-	-	-	-
.54055	22.66 ave	10.5	0	33.16	56	46	-	-	-	-
			Margin [dB]:		-22.84	-12.84	-	-	-	-
.5823	21.76 ave	10.5	0	32.26	56	46	-	-	-	-
			Margin [dB]:		-23.74	-13.74	-	-	-	-
.61442	20.27 ave	10.5	0	30.77	56	46	-	-	-	-
			Margin [dB]:		-25.23	-15.23	-	-	-	-
.65612	19.12 ave	10.5	0	29.62	56	46	-	-	-	-
			Margin [dB]:		-26.38	-16.38	-	-	-	-
.69902	18.63 ave	10.4	0	29.03	56	46	-	-	-	-
			Margin [dB]:		-26.97	-16.97	-	-	-	-
.74095	17.54 ave	10.4	0	27.94	56	46	-	-	-	-
			Margin [dB]:		-28.06	-18.06	-	-	-	-
.79887	15.32 ave	10.4	0	25.72	56	46	-	-	-	-
			Margin [dB]:		-30.28	-20.28	-	-	-	-
.82889	15.81 ave	10.4	0	26.21	56	46	-	-	-	-
			Margin [dB]:		-29.79	-19.79	-	-	-	-
.85424	15.04 ave	10.4	0	25.44	56	46	-	-	-	-
			Margin [dB]:		-30.56	-20.56	-	-	-	-
.89206	15.4 ave	10.4	0	25.8	56	46	-	-	-	-
			Margin [dB]:		-30.2	-20.2	-	-	-	-
.8921	15.36 ave	10.4	0	25.76	56	46	-	-	-	-
			Margin [dB]:		-30.24	-20.24	-	-	-	-
.96063	13.9 ave	10.4	0	24.3	56	46	-	-	-	-
			Margin [dB]:		-31.7	-21.7	-	-	-	-
.99559	14.97 ave	10.4	0	25.37	56	46	-	-	-	-
			Margin [dB]:		-30.63	-20.63	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 47 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.04431	15.54 ave	10.4	0	25.94	56	46	-	-	-	-
				Margin [dB]:	-30.06	-20.06	-	-	-	-
1.09764	15.03 ave	10.4	0	25.43	56	46	-	-	-	-
				Margin [dB]:	-30.57	-20.57	-	-	-	-
1.17377	16.59 ave	10.4	0	26.99	56	46	-	-	-	-
				Margin [dB]:	-29.01	-19.01	-	-	-	-
1.24483	17.07 ave	10.4	0	27.47	56	46	-	-	-	-
				Margin [dB]:	-28.53	-18.53	-	-	-	-
1.30728	17.18 ave	10.3	0	27.48	56	46	-	-	-	-
				Margin [dB]:	-28.52	-18.52	-	-	-	-
1.33687	15.62 ave	10.4	0	26.02	56	46	-	-	-	-
				Margin [dB]:	-29.98	-19.98	-	-	-	-
1.39034	16.33 ave	10.4	0	26.73	56	46	-	-	-	-
				Margin [dB]:	-29.27	-19.27	-	-	-	-
1.4723	14.36 ave	10.3	0	24.66	56	46	-	-	-	-
				Margin [dB]:	-31.34	-21.34	-	-	-	-
1.54803	13.77 ave	10.3	0	24.07	56	46	-	-	-	-
				Margin [dB]:	-31.93	-21.93	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Figure 8 Conducted Emissions Graph

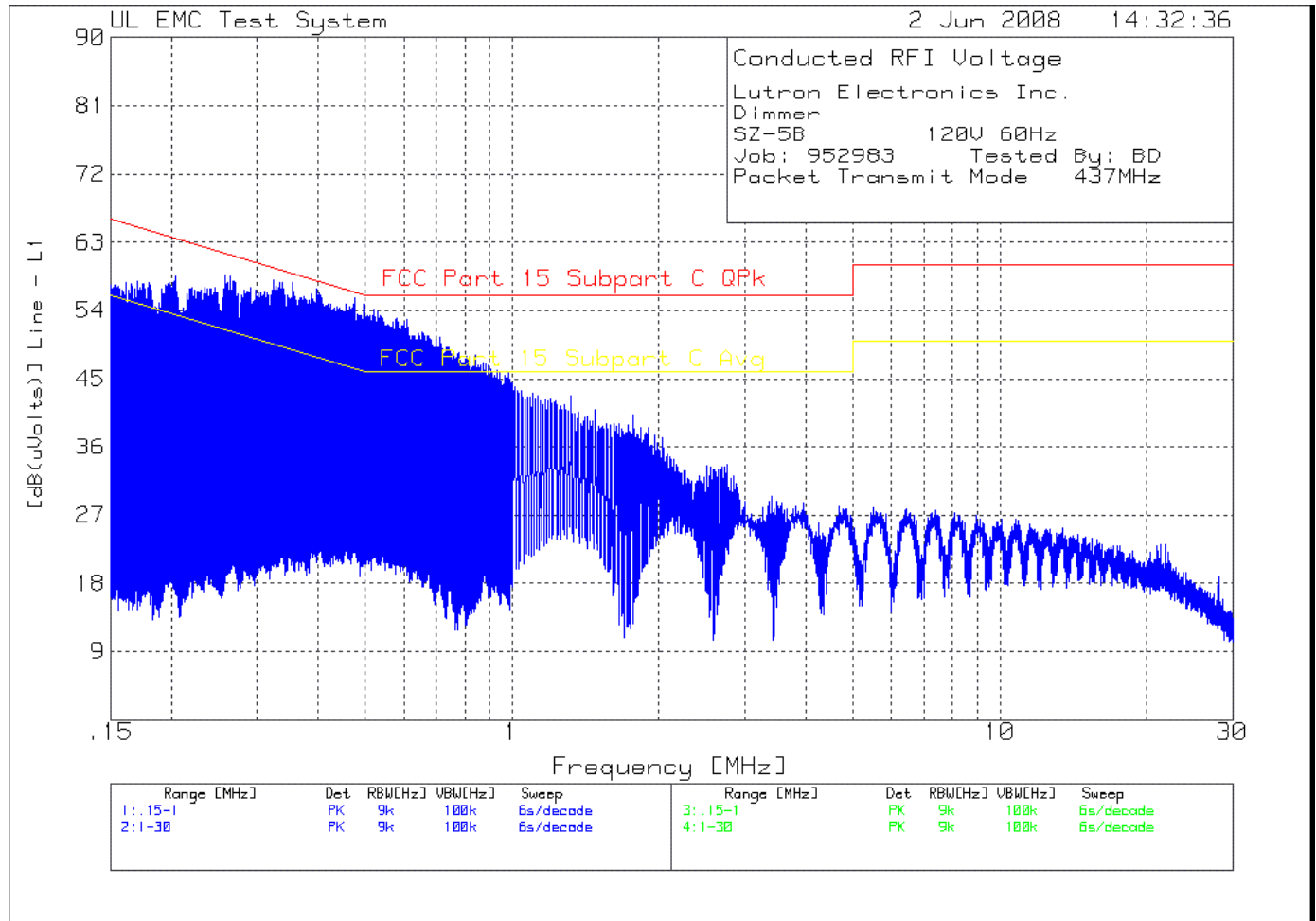


Figure 9 Conducted Emissions Graph

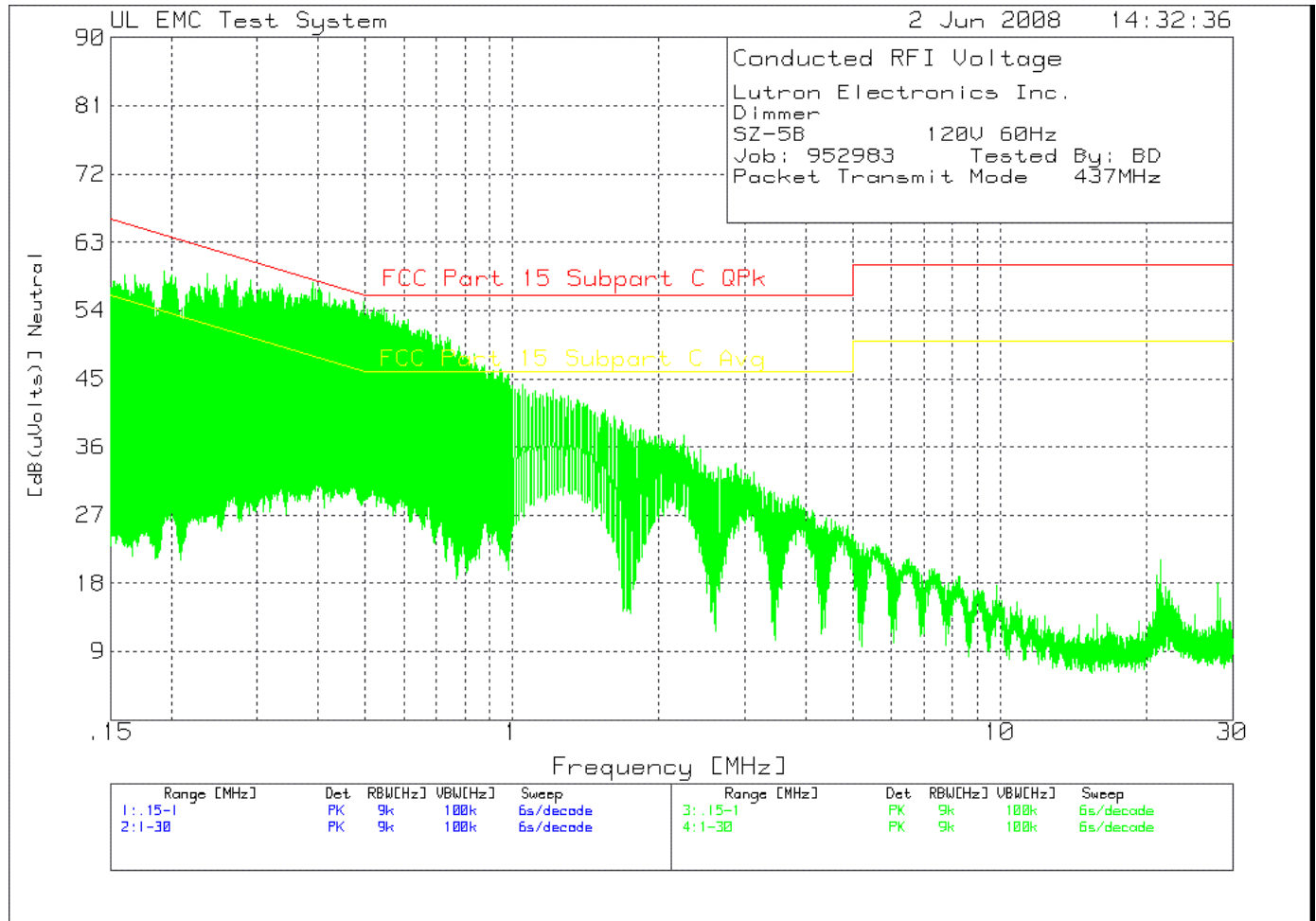


Table 6 Conducted Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 437MHz

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	.20254	46.46 pk	11.4	0	57.86	63.5	53.5	-	-	-	-
				Margin [dB]		-5.64	4.36	-	-	-	-
2	.22141	45.75 pk	11.2	0	56.95	62.8	52.8	-	-	-	-
				Margin [dB]		-5.85	4.15	-	-	-	-
3	.24097	45.71 pk	11.1	0	56.81	62.1	52.1	-	-	-	-
				Margin [dB]		-5.29	4.71	-	-	-	-
4	.25865	47.66 pk	11	0	58.66	61.5	51.5	-	-	-	-
				Margin [dB]		-2.84	7.16	-	-	-	-
5	.26919	46.92 pk	11	0	57.92	61.1	51.1	-	-	-	-
				Margin [dB]		-3.18	6.82	-	-	-	-
6	.29113	46.11 pk	10.9	0	57.01	60.5	50.5	-	-	-	-
				Margin [dB]		-3.49	6.51	-	-	-	-
7	.32344	47.26 pk	10.8	0	58.06	59.6	49.6	-	-	-	-
				Margin [dB]		-1.54	8.46	-	-	-	-
8	.35574	45.73 pk	10.7	0	56.43	58.8	48.8	-	-	-	-
				Margin [dB]		-2.37	7.63	-	-	-	-
9	.39842	46.24 pk	10.6	0	56.84	57.9	47.9	-	-	-	-
				Margin [dB]		-1.06	8.94	-	-	-	-
10	.44263	43.77 pk	10.6	0	54.37	57	47	-	-	-	-
				Margin [dB]		-2.63	7.37	-	-	-	-
11	.50452	42.73 pk	10.5	0	53.23	56	46	-	-	-	-
				Margin [dB]		-2.77	7.23	-	-	-	-
12	.57509	42.24 pk	10.5	0	52.74	56	46	-	-	-	-
				Margin [dB]		-3.26	6.74	-	-	-	-
13	.64072	39.76 pk	10.4	0	50.16	56	46	-	-	-	-
				Margin [dB]		-5.84	4.16	-	-	-	-
14	.71043	39.75 pk	10.4	0	50.15	56	46	-	-	-	-
				Margin [dB]		-5.85	4.15	-	-	-	-
15	.78525	36.94 pk	10.4	0	47.34	56	46	-	-	-	-
				Margin [dB]		-8.66	1.34	-	-	-	-
16	.86227	36.29 pk	10.4	0	46.69	56	46	-	-	-	-
				Margin [dB]		-9.31	.69	-	-	-	-
17	.94967	34.18 pk	10.4	0	44.58	56	46	-	-	-	-
				Margin [dB]		-11.42	-1.42	-	-	-	-
18	.99864	34.06 pk	10.4	0	44.46	56	46	-	-	-	-
				Margin [dB]		-11.54	-1.54	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 -	30MHz										
19	1.0116	33.49 pk	10.4	0	43.89	56	46	-	-	-	-
					Margin [dB]	-12.11	-2.11	-	-	-	-
20	1.04641	32.99 pk	10.4	0	43.39	56	46	-	-	-	-
					Margin [dB]	-12.61	-2.61	-	-	-	-
21	1.10442	32.73 pk	10.3	0	43.03	56	46	-	-	-	-
					Margin [dB]	-12.97	-2.97	-	-	-	-
22	1.19724	32.05 pk	10.3	0	42.35	56	46	-	-	-	-
					Margin [dB]	-13.65	-3.65	-	-	-	-
23	1.27846	31.19 pk	10.3	0	41.49	56	46	-	-	-	-
					Margin [dB]	-14.51	-4.51	-	-	-	-
24	1.31906	32.45 pk	10.3	0	42.75	56	46	-	-	-	-
					Margin [dB]	-13.25	-3.25	-	-	-	-

Neutral .15 -	1MHz										
25	.20101	47.23 pk	11.4	0	58.63	63.6	53.6	-	-	-	-
					Margin [dB]	-4.97	5.03	-	-	-	-
26	.22703	46.33 pk	11.2	0	57.53	62.6	52.6	-	-	-	-
					Margin [dB]	-5.07	4.93	-	-	-	-
27	.24471	46.22 pk	11.1	0	57.32	61.9	51.9	-	-	-	-
					Margin [dB]	-4.58	5.42	-	-	-	-
28	.26239	46.71 pk	11	0	57.71	61.4	51.4	-	-	-	-
					Margin [dB]	-3.69	6.31	-	-	-	-
29	.29164	47.04 pk	10.9	0	57.94	60.5	50.5	-	-	-	-
					Margin [dB]	-2.56	7.44	-	-	-	-
30	.33092	46.16 pk	10.8	0	56.96	59.4	49.4	-	-	-	-
					Margin [dB]	-2.44	7.56	-	-	-	-
31	.38941	47.08 pk	10.6	0	57.68	58.1	48.1	-	-	-	-
					Margin [dB]	-.42	9.58	-	-	-	-
32	.43175	44.83 pk	10.6	0	55.43	57.2	47.2	-	-	-	-
					Margin [dB]	-1.77	8.23	-	-	-	-
33	.47119	44.89 pk	10.5	0	55.39	56.5	46.5	-	-	-	-
					Margin [dB]	-1.11	8.89	-	-	-	-
34	.53377	43.4 pk	10.5	0	53.9	56	46	-	-	-	-
					Margin [dB]	-2.1	7.9	-	-	-	-
35	.58716	41.27 pk	10.5	0	51.77	56	46	-	-	-	-
					Margin [dB]	-4.23	5.77	-	-	-	-
36	.64446	40.92 pk	10.5	0	51.42	56	46	-	-	-	-
					Margin [dB]	-4.58	5.42	-	-	-	-
37	.69683	39.91 pk	10.4	0	50.31	56	46	-	-	-	-
					Margin [dB]	-5.69	4.31	-	-	-	-
38	.77505	38.26 pk	10.4	0	48.66	56	46	-	-	-	-
					Margin [dB]	-7.34	2.66	-	-	-	-
39	.8502	35.88 pk	10.4	0	46.28	56	46	-	-	-	-
					Margin [dB]	-9.72	.28	-	-	-	-
40	.92315	34.46 pk	10.4	0	44.86	56	46	-	-	-	-
					Margin [dB]	-11.14	-1.14	-	-	-	-
41	.99932	33.6 pk	10.4	0	44	56	46	-	-	-	-
					Margin [dB]	-12	-2	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 52 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz -----											
42	1.05221	33.86 pk	10.4	0	44.26	56	46	-	-	-	-
				Margin [dB]		-11.74	-1.74	-	-	-	-
43	1.21464	33.25 pk	10.4	0	43.65	56	46	-	-	-	-
				Margin [dB]		-12.35	-2.35	-	-	-	-
44	1.30746	32.51 pk	10.3	0	42.81	56	46	-	-	-	-
				Margin [dB]		-13.19	-3.19	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 437MHz

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										
.20102	44.11 qp	11.4	0	55.51	63.6	53.6	-	-	-	-
			Margin [dB]:		-8.09	1.91	-	-	-	-
.22123	42.82 qp	11.2	0	54.02	62.8	52.8	-	-	-	-
			Margin [dB]:		-8.78	1.22	-	-	-	-
.2411	42.72 qp	11.1	0	53.82	62	52	-	-	-	-
			Margin [dB]:		-8.18	1.82	-	-	-	-
.26009	44.04 qp	11	0	55.04	61.4	51.4	-	-	-	-
			Margin [dB]:		-6.36	3.64	-	-	-	-
.26773	43.86 qp	11	0	54.86	61.2	51.2	-	-	-	-
			Margin [dB]:		-6.34	3.66	-	-	-	-
.28994	42.19 qp	10.9	0	53.09	60.5	50.5	-	-	-	-
			Margin [dB]:		-7.41	2.59	-	-	-	-
.32479	43.32 qp	10.8	0	54.12	59.6	49.6	-	-	-	-
			Margin [dB]:		-5.48	4.52	-	-	-	-
.35525	41.2 qp	10.7	0	51.9	58.8	48.8	-	-	-	-
			Margin [dB]:		-6.9	3.1	-	-	-	-
.39772	42.13 qp	10.6	0	52.73	57.9	47.9	-	-	-	-
			Margin [dB]:		-5.17	4.83	-	-	-	-
.44198	40.5 qp	10.6	0	51.1	57	47	-	-	-	-
			Margin [dB]:		-5.9	4.1	-	-	-	-
.50454	39.23 qp	10.5	0	49.73	56	46	-	-	-	-
			Margin [dB]:		-6.27	3.73	-	-	-	-
.57437	37.75 qp	10.5	0	48.25	56	46	-	-	-	-
			Margin [dB]:		-7.75	2.25	-	-	-	-
.64097	36.79 qp	10.4	0	47.19	56	46	-	-	-	-
			Margin [dB]:		-8.81	1.19	-	-	-	-
.71125	36.01 qp	10.4	0	46.41	56	46	-	-	-	-
			Margin [dB]:		-9.59	.41	-	-	-	-
.78455	34.07 qp	10.4	0	44.47	56	46	-	-	-	-
			Margin [dB]:		-11.53	-1.53	-	-	-	-
.86165	32.68 qp	10.4	0	43.08	56	46	-	-	-	-
			Margin [dB]:		-12.92	-2.92	-	-	-	-
.94944	31.36 qp	10.4	0	41.76	56	46	-	-	-	-
			Margin [dB]:		-14.24	-4.24	-	-	-	-
.9976	30.65 qp	10.4	0	41.05	56	46	-	-	-	-
			Margin [dB]:		-14.95	-4.95	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 - 30MHz										
1.03765	29.88 qp	10.4	0	40.28	56	46	-	-	-	-
			Margin [dB]:		-15.72	-5.72	-	-	-	-
1.05027	20.14 qp	10.4	0	30.54	56	46	-	-	-	-
			Margin [dB]:		-25.46	-15.46	-	-	-	-
1.11437	20.83 qp	10.3	0	31.13	56	46	-	-	-	-
			Margin [dB]:		-24.87	-14.87	-	-	-	-
1.1958	21.2 qp	10.3	0	31.5	56	46	-	-	-	-
			Margin [dB]:		-24.5	-14.5	-	-	-	-
1.27922	21.56 qp	10.3	0	31.86	56	46	-	-	-	-
			Margin [dB]:		-24.14	-14.14	-	-	-	-
1.31045	21.2 qp	10.3	0	31.5	56	46	-	-	-	-
			Margin [dB]:		-24.5	-14.5	-	-	-	-
Neutral .15 - 1MHz										
.19965	44.05 qp	11.4	0	55.45	63.6	53.6	-	-	-	-
			Margin [dB]:		-8.15	1.85	-	-	-	-
.226	42.22 qp	11.2	0	53.42	62.6	52.6	-	-	-	-
			Margin [dB]:		-9.18	.82	-	-	-	-
.2441	42.83 qp	11.1	0	53.93	62	52	-	-	-	-
			Margin [dB]:		-8.07	1.93	-	-	-	-
.26372	43.77 qp	11	0	54.77	61.3	51.3	-	-	-	-
			Margin [dB]:		-6.53	3.47	-	-	-	-
.29049	42.32 qp	10.9	0	53.22	60.5	50.5	-	-	-	-
			Margin [dB]:		-7.28	2.72	-	-	-	-
.32996	43.36 qp	10.8	0	54.16	59.4	49.4	-	-	-	-
			Margin [dB]:		-5.24	4.76	-	-	-	-
.39063	42.68 qp	10.6	0	53.28	58.1	48.1	-	-	-	-
			Margin [dB]:		-4.82	5.18	-	-	-	-
.43222	40.65 qp	10.6	0	51.25	57.2	47.2	-	-	-	-
			Margin [dB]:		-5.95	4.05	-	-	-	-
.47168	41.47 qp	10.5	0	51.97	56.5	46.5	-	-	-	-
			Margin [dB]:		-4.53	5.47	-	-	-	-
.53437	39.4 qp	10.5	0	49.9	56	46	-	-	-	-
			Margin [dB]:		-6.1	3.9	-	-	-	-
.5866	39.44 qp	10.5	0	49.94	56	46	-	-	-	-
			Margin [dB]:		-6.06	3.94	-	-	-	-
.64482	37.57 qp	10.5	0	48.07	56	46	-	-	-	-
			Margin [dB]:		-7.93	2.07	-	-	-	-
.69752	36.03 qp	10.4	0	46.43	56	46	-	-	-	-
			Margin [dB]:		-9.57	.43	-	-	-	-
.77623	34.51 qp	10.4	0	44.91	56	46	-	-	-	-
			Margin [dB]:		-11.09	-1.09	-	-	-	-
.84947	32.71 qp	10.4	0	43.11	56	46	-	-	-	-
			Margin [dB]:		-12.89	-2.89	-	-	-	-
.92327	31.01 qp	10.4	0	41.41	56	46	-	-	-	-
			Margin [dB]:		-14.59	-4.59	-	-	-	-
.99766	30.23 qp	10.4	0	40.63	56	46	-	-	-	-
			Margin [dB]:		-15.37	-5.37	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 55 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.04077	29.49 qp	10.4	0	39.89	56	46	-	-	-	-
			Margin [dB]:		-16.11	-6.11	-	-	-	-
1.22617	29.1 qp	10.4	0	39.5	56	46	-	-	-	-
			Margin [dB]:		-16.5	-6.5	-	-	-	-
1.31129	28.29 qp	10.4	0	38.69	56	46	-	-	-	-
			Margin [dB]:		-17.31	-7.31	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Lutron Electronics Inc.
 Dimmer
 SZ-5B 120V 60Hz
 Job: 952983 Tested By: BD
 Packet Transmit Mode 437MHz

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										
.20102	24.7 ave	11.4	0	36.1	63.6	53.6	-	-	-	-
			Margin [dB]:		-27.5	-17.5	-	-	-	-
.22123	24.1 ave	11.2	0	35.3	62.8	52.8	-	-	-	-
			Margin [dB]:		-27.5	-17.5	-	-	-	-
.2411	23.73 ave	11.1	0	34.83	62.1	52.1	-	-	-	-
			Margin [dB]:		-27.27	-17.27	-	-	-	-
.26009	23.29 ave	11	0	34.29	61.4	51.4	-	-	-	-
			Margin [dB]:		-27.11	-17.11	-	-	-	-
.26773	23.97 ave	11	0	34.97	61.2	51.2	-	-	-	-
			Margin [dB]:		-26.23	-16.23	-	-	-	-
.28994	22.7 ave	10.9	0	33.6	60.5	50.5	-	-	-	-
			Margin [dB]:		-26.9	-16.9	-	-	-	-
.32479	22.18 ave	10.8	0	32.98	59.6	49.6	-	-	-	-
			Margin [dB]:		-26.62	-16.62	-	-	-	-
.35525	21.83 ave	10.7	0	32.53	58.8	48.8	-	-	-	-
			Margin [dB]:		-26.27	-16.27	-	-	-	-
.39772	21.61 ave	10.6	0	32.21	57.9	47.9	-	-	-	-
			Margin [dB]:		-25.69	-15.69	-	-	-	-
.44198	21 ave	10.6	0	31.6	57	47	-	-	-	-
			Margin [dB]:		-25.4	-15.4	-	-	-	-
.50454	20.51 ave	10.5	0	31.01	56	46	-	-	-	-
			Margin [dB]:		-24.99	-14.99	-	-	-	-
.57437	18.23 ave	10.5	0	28.73	56	46	-	-	-	-
			Margin [dB]:		-27.27	-17.27	-	-	-	-
.64097	17.68 ave	10.4	0	28.08	56	46	-	-	-	-
			Margin [dB]:		-27.92	-17.92	-	-	-	-
.71125	16.96 ave	10.4	0	27.36	56	46	-	-	-	-
			Margin [dB]:		-28.64	-18.64	-	-	-	-
.78455	15.16 ave	10.4	0	25.56	56	46	-	-	-	-
			Margin [dB]:		-30.44	-20.44	-	-	-	-
.86165	13.52 ave	10.4	0	23.92	56	46	-	-	-	-
			Margin [dB]:		-32.08	-22.08	-	-	-	-
.94944	13.46 ave	10.4	0	23.86	56	46	-	-	-	-
			Margin [dB]:		-32.14	-22.14	-	-	-	-
.9976	13.19 ave	10.4	0	23.59	56	46	-	-	-	-
			Margin [dB]:		-32.41	-22.41	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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 1 - 30MHz										
1.03765	8.27 ave	10.4	0	18.67	56	46	-	-	-	-
				Margin [dB]:	-37.33	-27.33	-	-	-	-
1.05027	8.56 ave	10.4	0	18.96	56	46	-	-	-	-
				Margin [dB]:	-37.04	-27.04	-	-	-	-
1.11437	9.21 ave	10.3	0	19.51	56	46	-	-	-	-
				Margin [dB]:	-36.49	-26.49	-	-	-	-
1.1958	10.37 ave	10.3	0	20.67	56	46	-	-	-	-
				Margin [dB]:	-35.33	-25.33	-	-	-	-
1.27922	10.02 ave	10.3	0	20.32	56	46	-	-	-	-
				Margin [dB]:	-35.68	-25.68	-	-	-	-
1.31045	9.64 ave	10.3	0	19.94	56	46	-	-	-	-
				Margin [dB]:	-36.06	-26.06	-	-	-	-
Neutral .15 - 1MHz										
.19965	26.53 ave	11.4	0	37.93	63.6	53.6	-	-	-	-
				Margin [dB]:	-25.67	-15.67	-	-	-	-
.226	23.92 ave	11.2	0	35.12	62.6	52.6	-	-	-	-
				Margin [dB]:	-27.48	-17.48	-	-	-	-
.2441	25.01 ave	11.1	0	36.11	62	52	-	-	-	-
				Margin [dB]:	-25.89	-15.89	-	-	-	-
.26372	25.93 ave	11	0	36.93	61.3	51.3	-	-	-	-
				Margin [dB]:	-24.37	-14.37	-	-	-	-
.29049	24.66 ave	10.9	0	35.56	60.5	50.5	-	-	-	-
				Margin [dB]:	-24.94	-14.94	-	-	-	-
.32996	24.88 ave	10.8	0	35.68	59.5	49.5	-	-	-	-
				Margin [dB]:	-23.82	-13.82	-	-	-	-
.39063	23.97 ave	10.6	0	34.57	58.1	48.1	-	-	-	-
				Margin [dB]:	-23.53	-13.53	-	-	-	-
.43222	23.93 ave	10.6	0	34.53	57.2	47.2	-	-	-	-
				Margin [dB]:	-22.67	-12.67	-	-	-	-
.47168	23.06 ave	10.5	0	33.56	56.5	46.5	-	-	-	-
				Margin [dB]:	-22.94	-12.94	-	-	-	-
.53437	21.2 ave	10.5	0	31.7	56	46	-	-	-	-
				Margin [dB]:	-24.3	-14.3	-	-	-	-
.5866	21.26 ave	10.5	0	31.76	56	46	-	-	-	-
				Margin [dB]:	-24.24	-14.24	-	-	-	-
.64482	19.91 ave	10.5	0	30.41	56	46	-	-	-	-
				Margin [dB]:	-25.59	-15.59	-	-	-	-
.69752	18.39 ave	10.4	0	28.79	56	46	-	-	-	-
				Margin [dB]:	-27.21	-17.21	-	-	-	-
.77623	16.14 ave	10.4	0	26.54	56	46	-	-	-	-
				Margin [dB]:	-29.46	-19.46	-	-	-	-
.84947	15.19 ave	10.4	0	25.59	56	46	-	-	-	-
				Margin [dB]:	-30.41	-20.41	-	-	-	-
.92327	14.97 ave	10.4	0	25.37	56	46	-	-	-	-
				Margin [dB]:	-30.63	-20.63	-	-	-	-
.99766	14.67 ave	10.4	0	25.07	56	46	-	-	-	-
				Margin [dB]:	-30.93	-20.93	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

Job Number: 952983 File Number: MC15896 Page 58 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 1 - 30MHz										
1.04077	15.47 ave	10.4	0	25.87	56	46	-	-	-	-
			Margin [dB]:		-30.13	-20.13	-	-	-	-
1.22617	16.47 ave	10.4	0	26.87	56	46	-	-	-	-
			Margin [dB]:		-29.13	-19.13	-	-	-	-
1.31129	16.2 ave	10.4	0	26.6	56	46	-	-	-	-
			Margin [dB]:		-29.4	-19.4	-	-	-	-

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

LIMIT 1: FCC Part 15 Subpart C QPk
 LIMIT 2: FCC Part 15 Subpart C Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection

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. The video bandwidth is set to a minimum of 3 times the selected resolution bandwidth.
Basic Standard	FCC Part 15, Subpart C, 15.231, RSS-GEN, RSS-210
Occupied Bandwidth Limits	
0.25% of the Fundamental Frequency	

Table 7 Occupied Bandwidth Configuration Settings

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

Table 8 Occupied Bandwidth Spectrum Analyzer Settings

Resolution Bandwidth (MHz)	Occupied Bandwidth Requirements	
	dBc	%
1% of the Span	-20	99
Supplementary information: Span shall be wide enough to capture all products of the modulation process.		

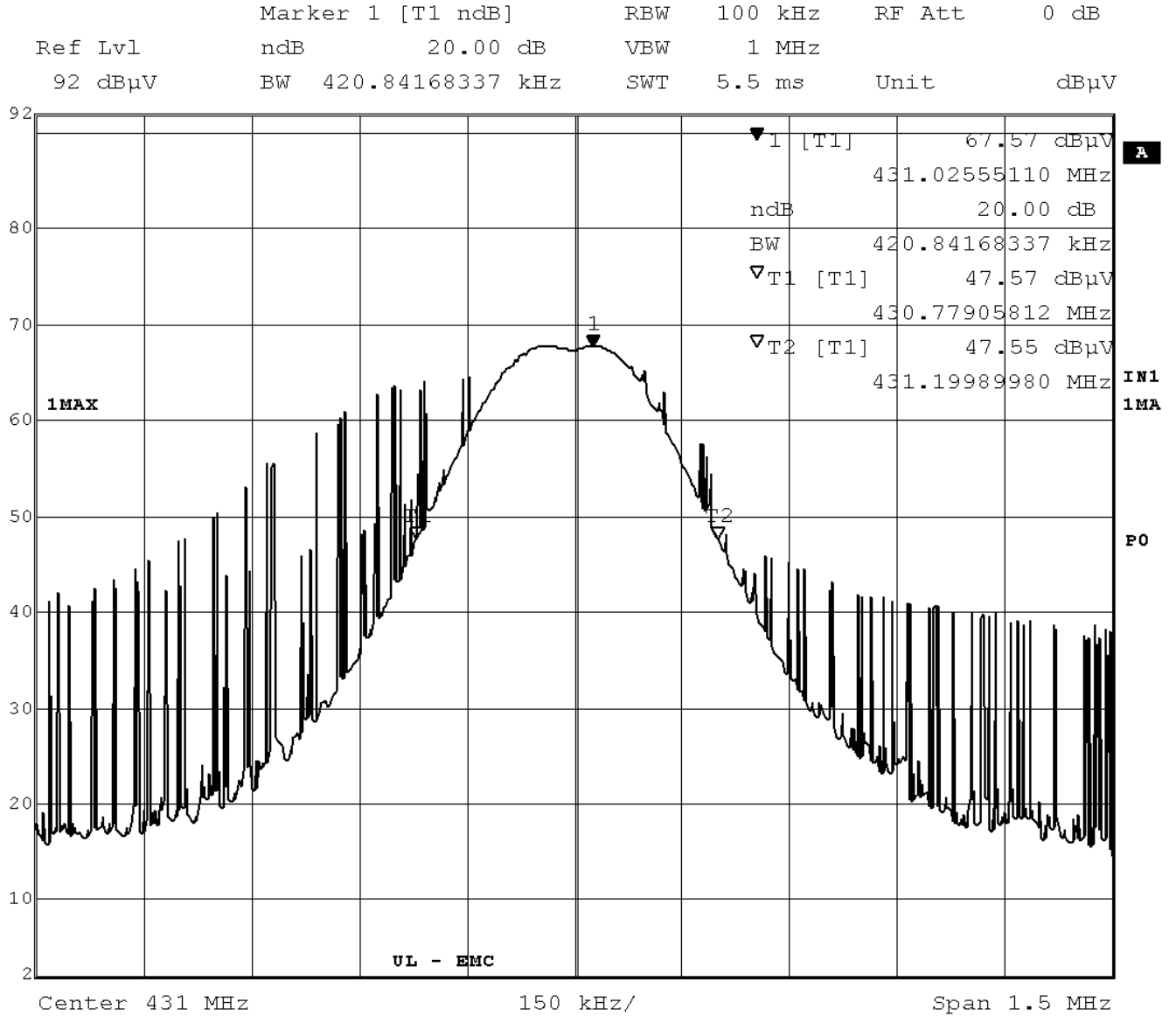
Table 9 Occupied Bandwidth Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83V	44459

Figure 10 Test Setup for Occupied Bandwidth



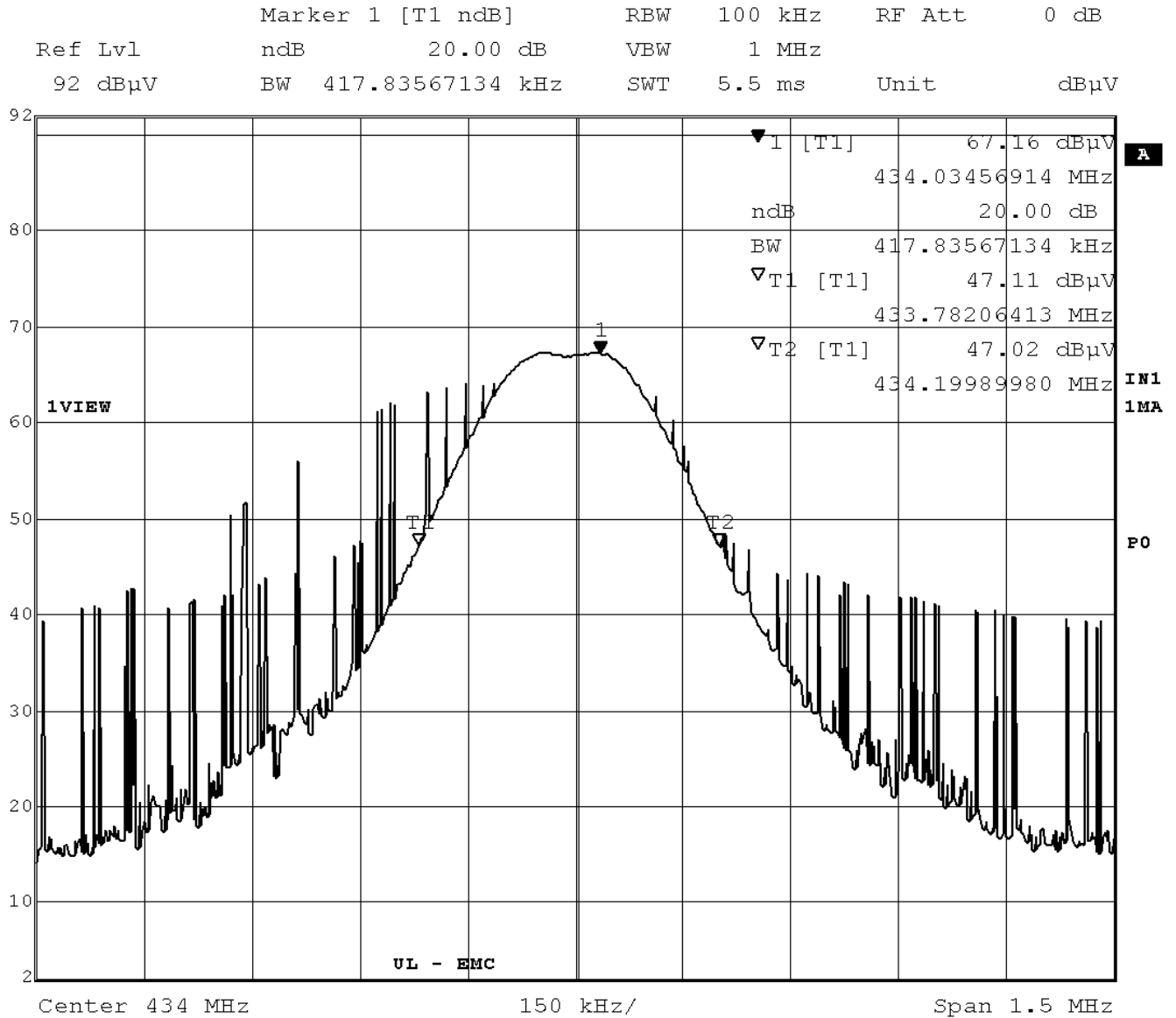
Figure 11 Occupied Bandwidth Graph – 20dB 431MHz



Date: 19.JUN.2008 14:08:15

Manual marks used to capture modulation components - -20dB OBW = 825kHz

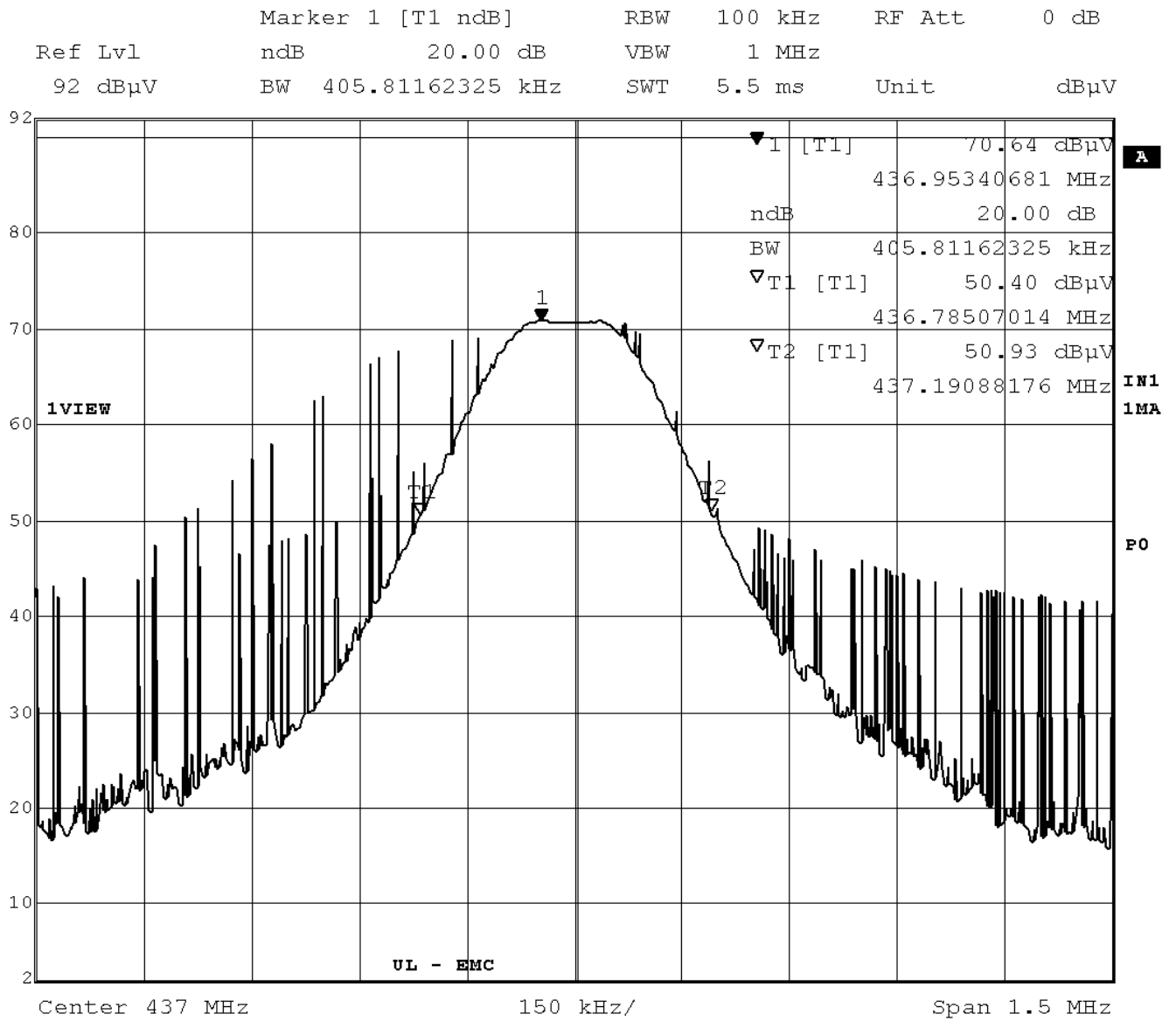
Figure 12 Occupied Bandwidth Graph - 20dB 434MHz



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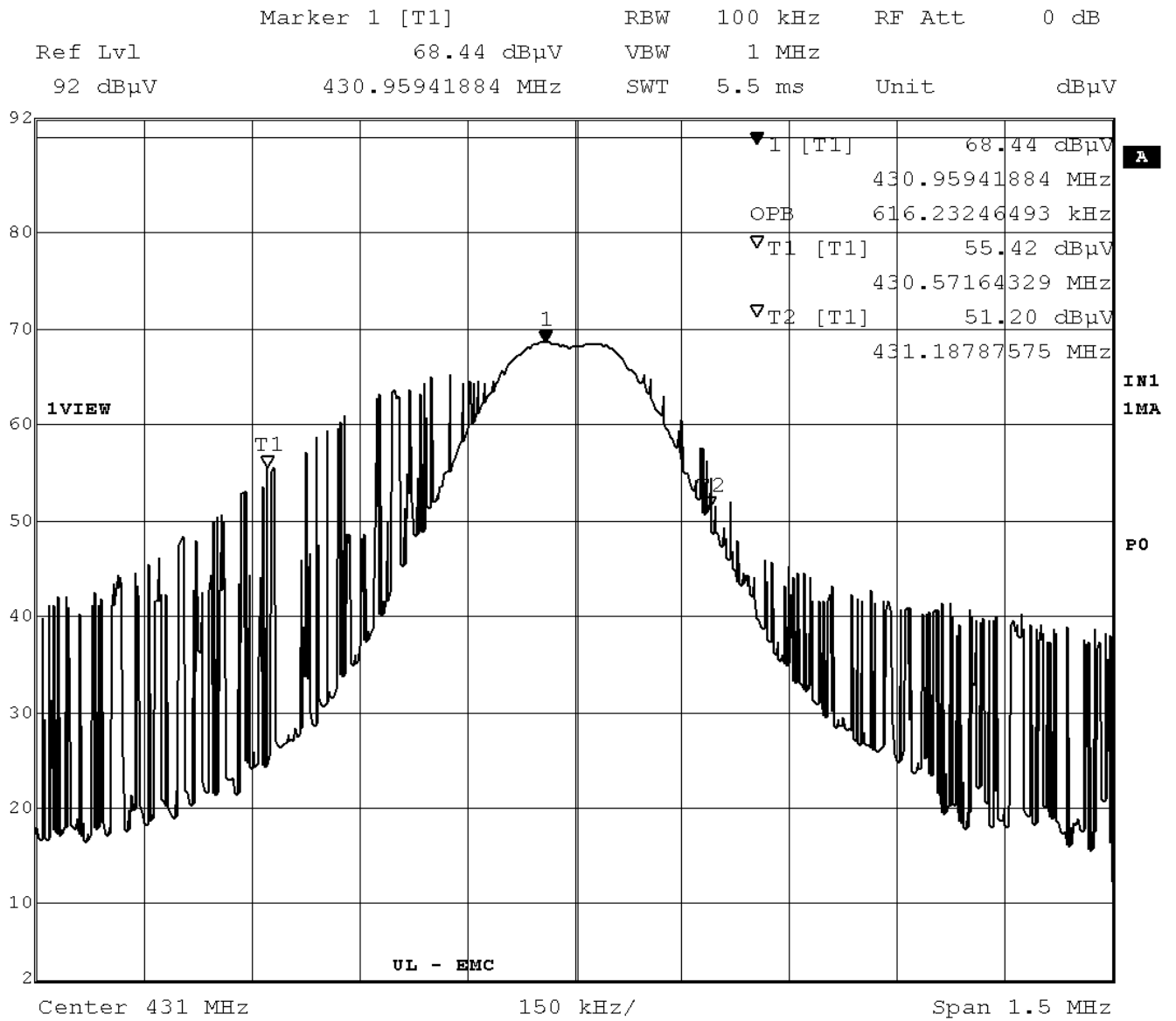
Manual marks used to capture modulation components - -20dB OBW = 750kHz

Figure 13 Occupied Bandwidth Graph - 20dB 437MHz



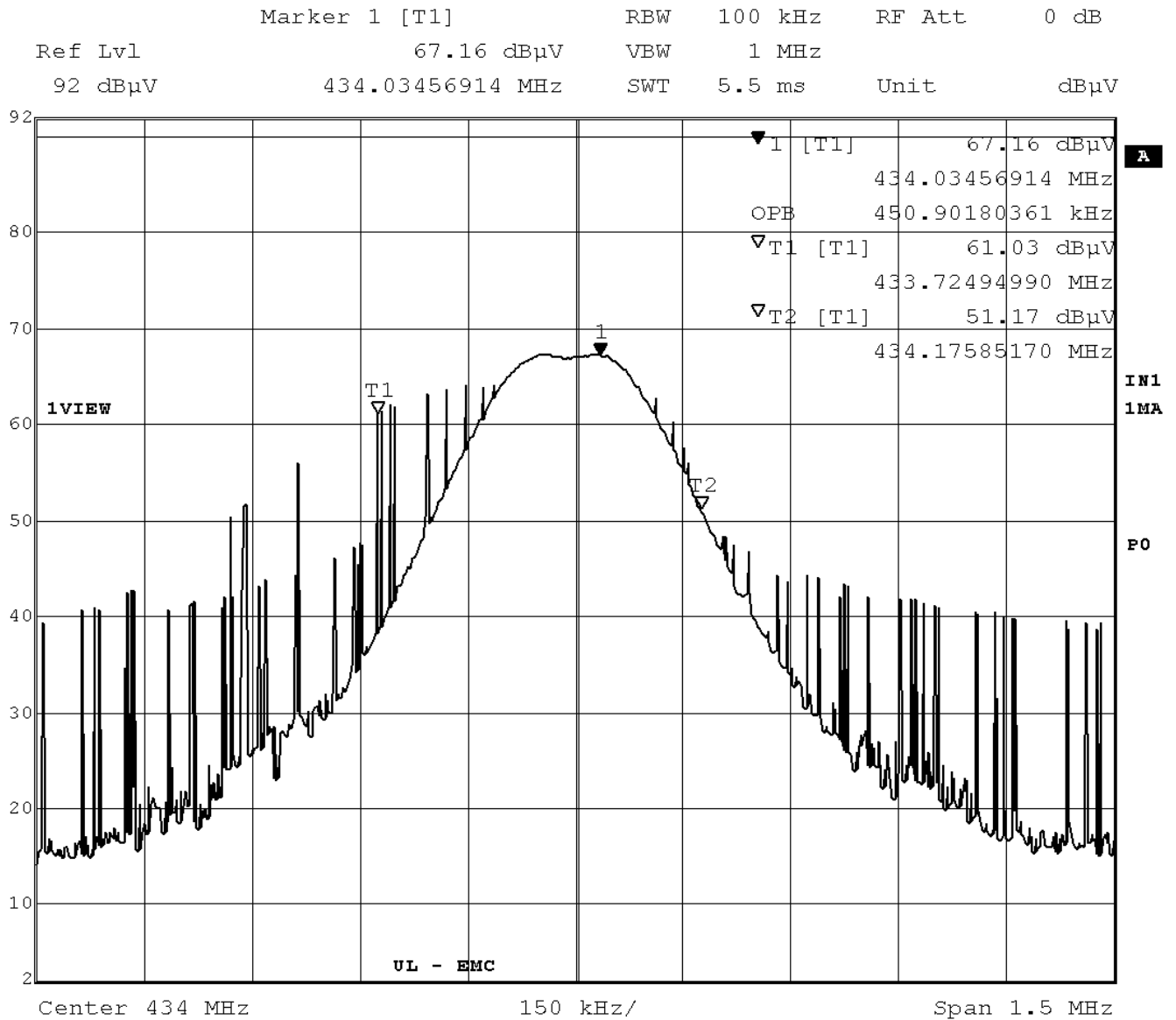
Date: 19.JUN.2008 14:12:07
 Manual marks used to capture modulation components - -20dB OBW = 750kHz

Figure 14 Occupied Bandwidth Graph – 99% 431MHz



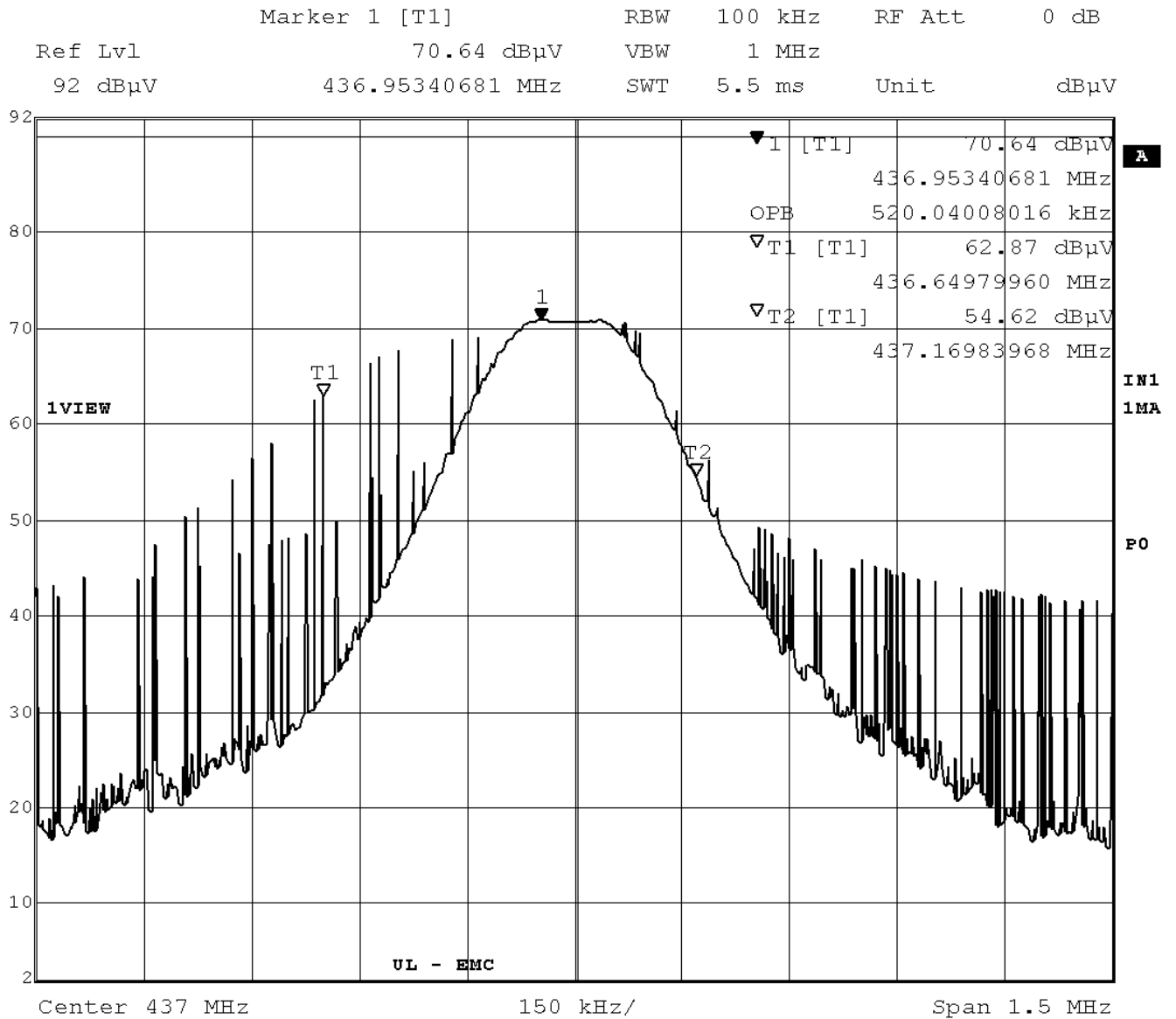
Date: 19.JUN.2008 14:09:10

Figure 15 Occupied Bandwidth Graph – 99% 434MHz



Date: 19.JUN.2008 14:10:21

Figure 16 Occupied Bandwidth Graph – 99% 437MHz



Date: 19.JUN.2008 14:13:13

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, RSS-GEN, RSS-210
Cease Operation Limits	
The transmissions shall stop within 5 seconds of either a button being released or if automatically controlled transmissions shall be stopped 5 seconds after transmissions begin.	

Table 10 Cease Operation Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
Supplementary information: Same timing circuitry used for all channels. Only 434MHz used for compliance.		

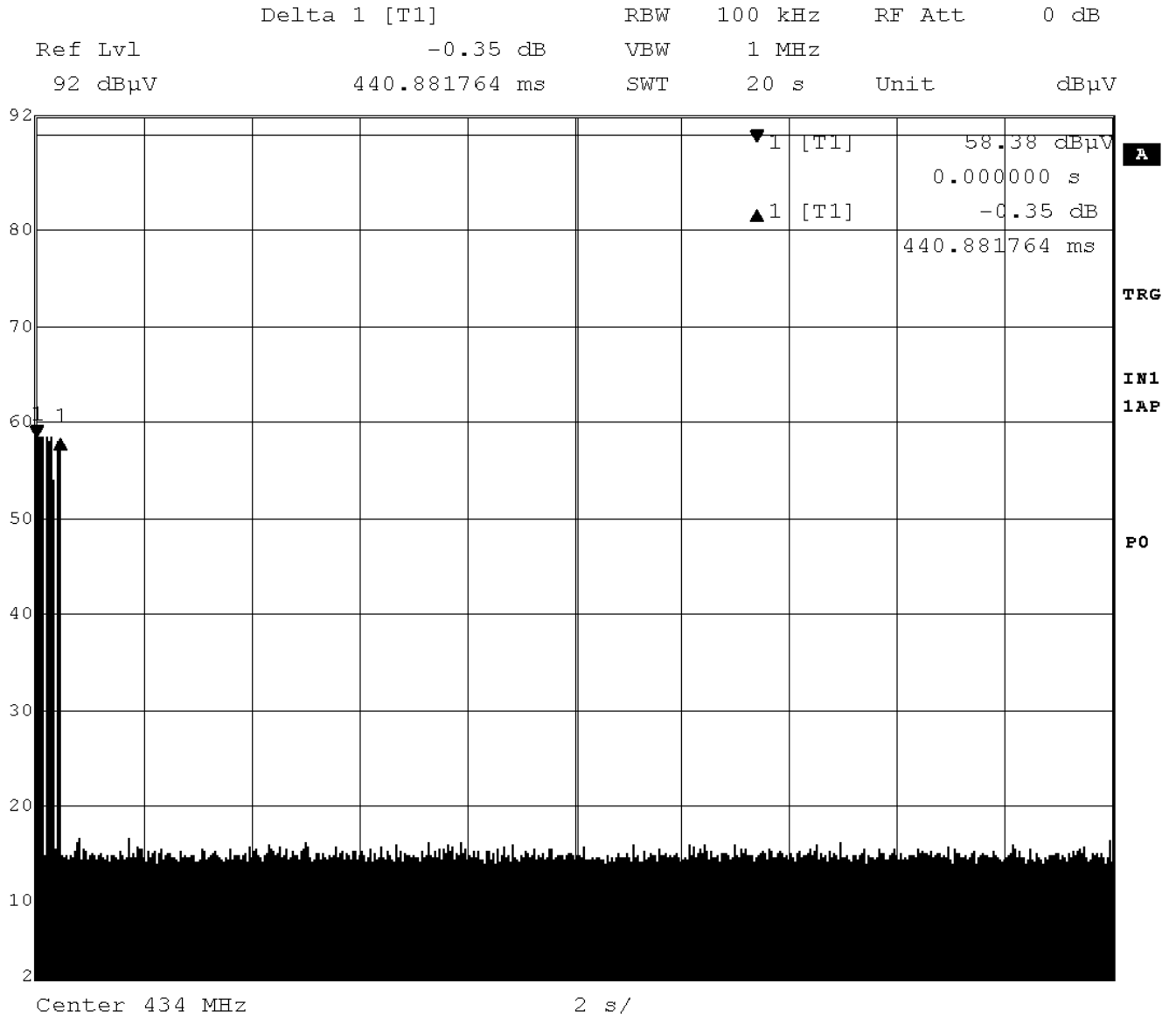
Table 11 Cease Operation Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83V	44459

Figure 17 Test Setup for Cease Operation



Figure 18 Cease Operation Graph



Date: 19.JUN.2008 14:29:17

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
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 12 Pulse Train Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	4
1	1	5
1	1	6
Supplementary information: None		

Table 13 Pulse Train Calculation

Pulse Width (mS)	Total Transmission time or 100ms which ever is lesser	Average Correction Factor (dB) $20 \log \left(\frac{PulseWidth}{TotalTransmissionTime} \right)$
4.81	75.15	-23.88

Table 14 Pulse Train Test Equipment

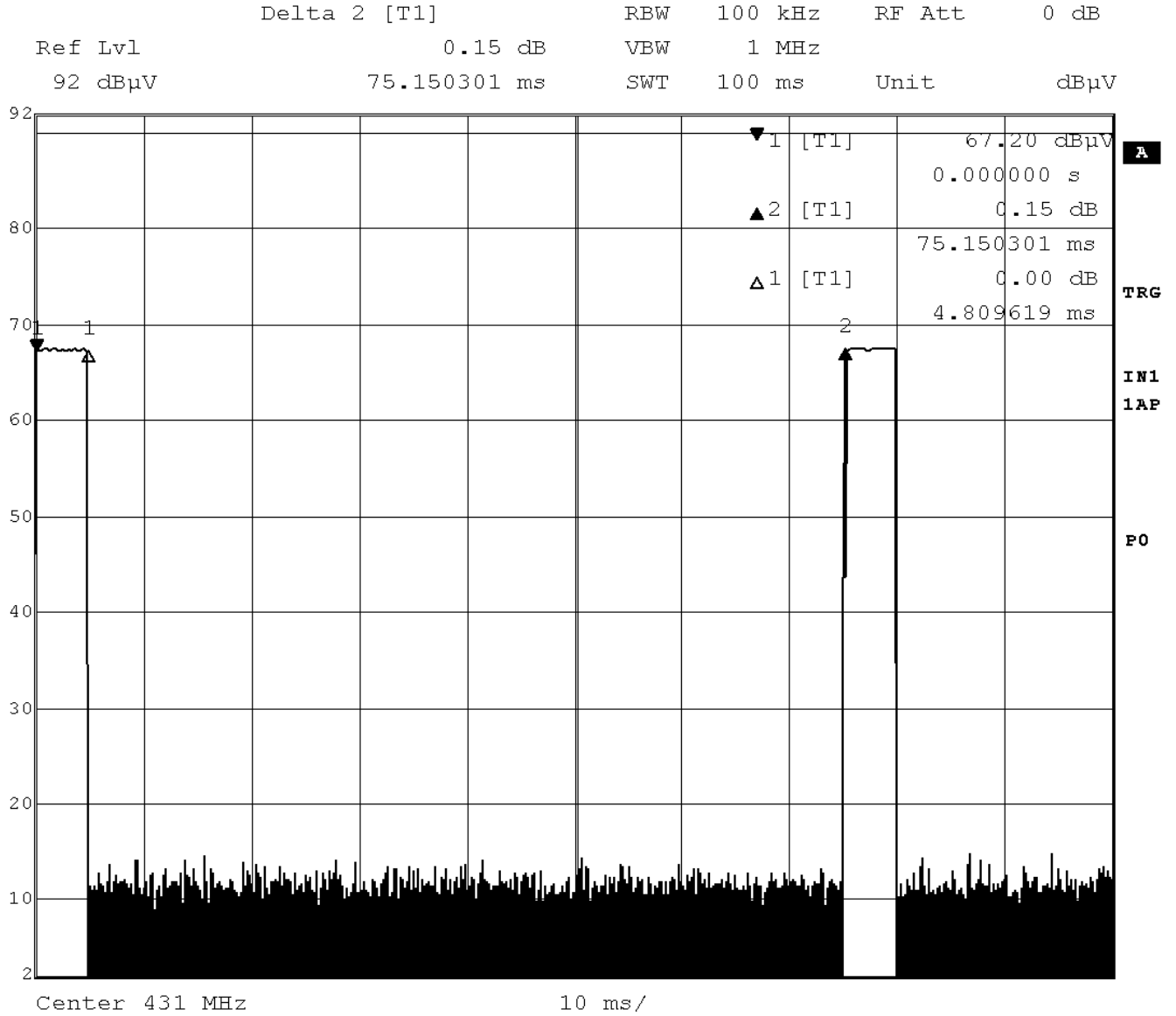
Test Equipment Used			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740
Multimeter	Fluke	83III	ME5B-305

Figure 19 Test Setup for Pulse Train

Job Number: 952983 File Number: MC15896 Page 71 of 121
Model Number: SZ-5B
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

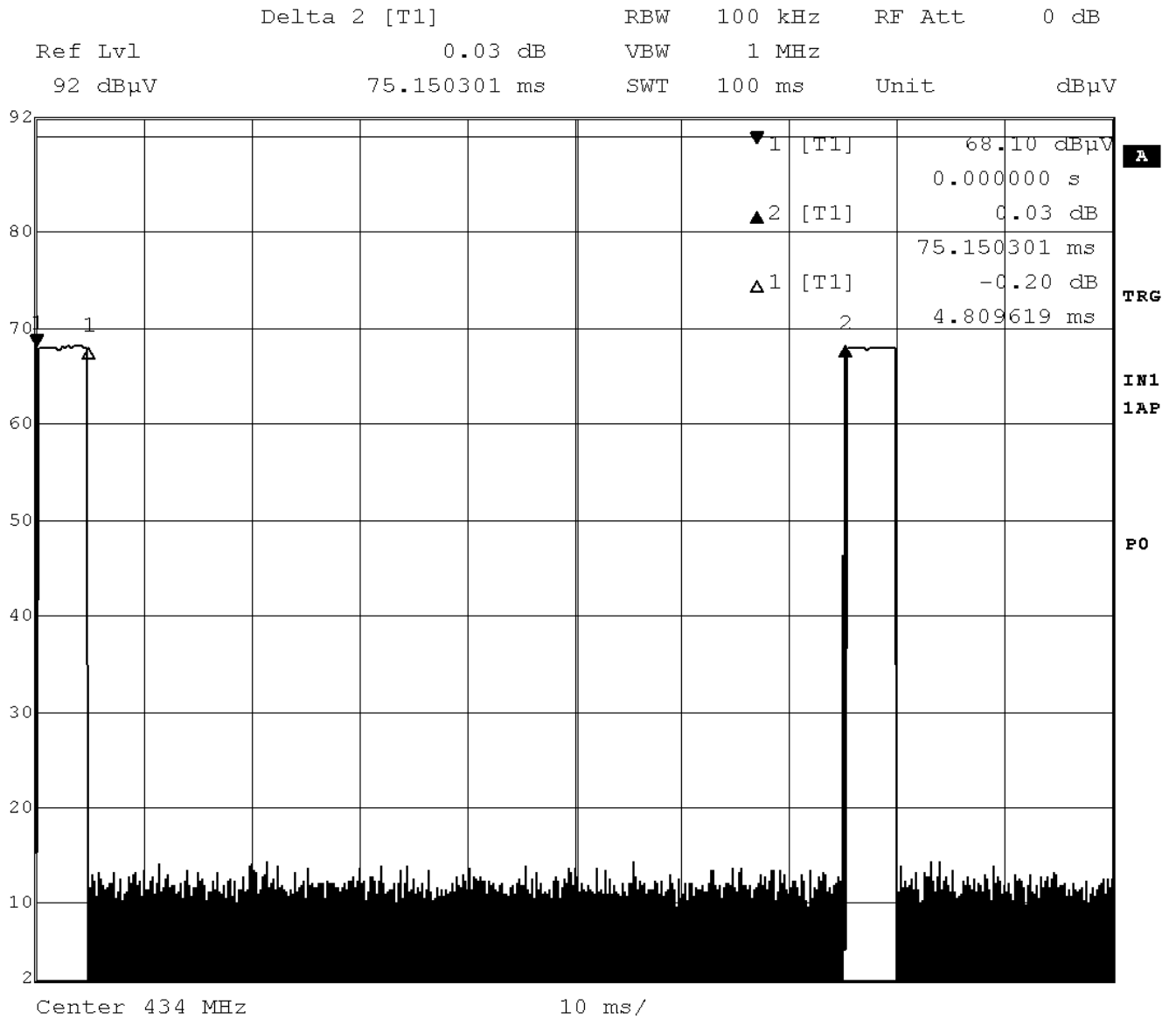


Figure 20 Pulse Train Graph – 431MHz



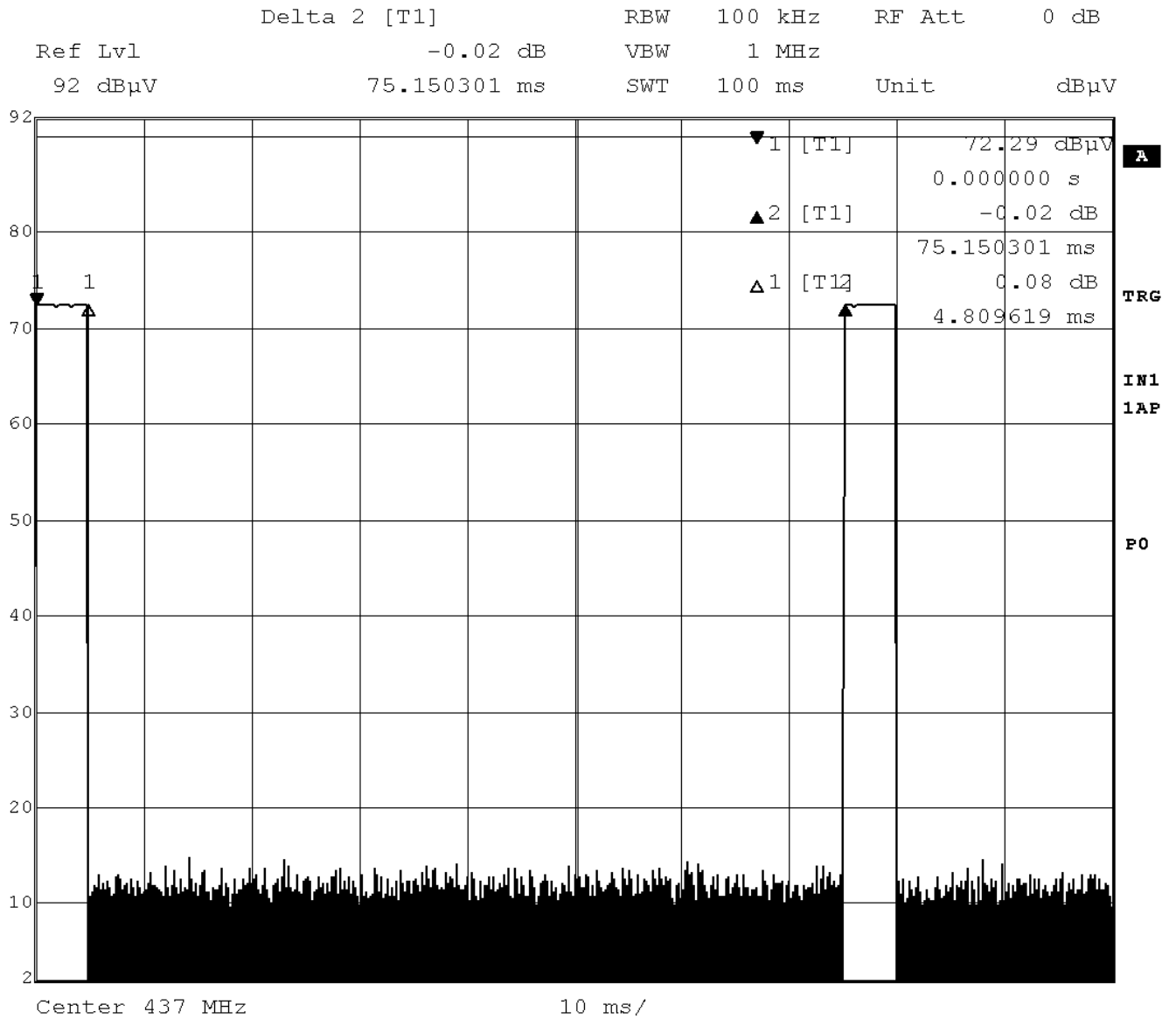
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Figure 21 Pulse Train Graph – 434MHz



Date: 19.JUN.2008 14:25:29

Figure 22 Pulse Train Graph – 437MHz



Date: 19.JUN.2008 14:24:16

4.5 Test Conditions and Results – 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, 15.209, RSS-GEN, RSS-210		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	0.009MHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 5 GHz	(3 meter measurement distance)	
Limits			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious/ Unintentional
0.009 – 0.490	128.5 – 93.8	-	-
0.490 – 1.705	73.8 – 63	-	-
1.705 – 30	69.5	-	-
30 – 88	40	-	-
88 – 216	43.5	-	-
216-960	46	-	-
960-1000	54	-	-
1000-10000	-	-	54
431	-	80.7	-
434	-	80.8	-
437	-	80.9	-
Harmonics of the Fundamental 431	-	-	60.7
Harmonics of the Fundamental 434	-	-	60.8
Harmonics of the Fundamental 437	-	-	60.9
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			

Table 15 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
1	1	3
1	1	7
1	1	8
1	1	9

Supplementary information: Since no emissions were noted above 500MHz in receive mode on each channel, only one channel was conducted above 1GHz (Mode 8)

Table 16 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
9kHz-30MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Spectrum Analyzer	Agilent	E7405A	19695
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	87V	44547
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	43441
Log-P Antenna	Schaffner	UPA6109	44068
Bias Tee	Miteq	AM-1523-7687	44392
Bias Tee	Miteq	AM-1523-7687	44393
Preamp	Miteq	AM-3A-000110-7687	44391
Preamp	Miteq	AM-3A-000110-7687	44394

Job Number: 952983 File Number: MC15896 Page 77 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Test Equipment Used			
Description	Manufacturer	Model	Identifier
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	87V	44547
Above 1GHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Horn Antenna	Electro-Metrics	RGA-180	ME5-565
Preamp (1 - 26GHz)	HP	8449B	ME5-914
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	87V	44547

Figure 23 Test setup for Radiated Emissions 9kHz – 30MHz



Figure 24 Test setup for Radiated Emissions 30MHz – 1000MHz

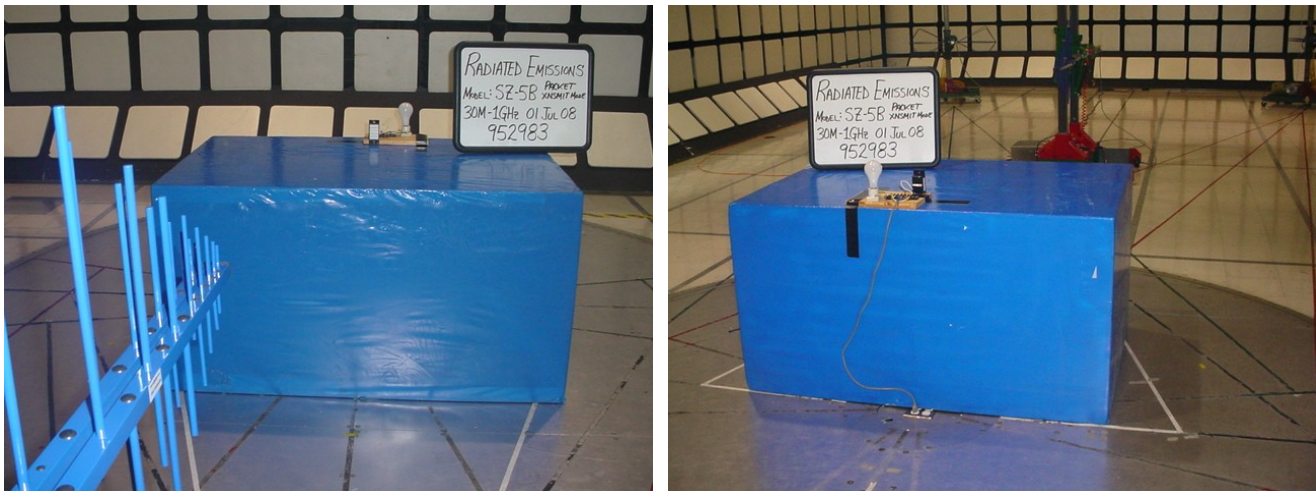


Figure 25 Test setup for Radiated Emissions

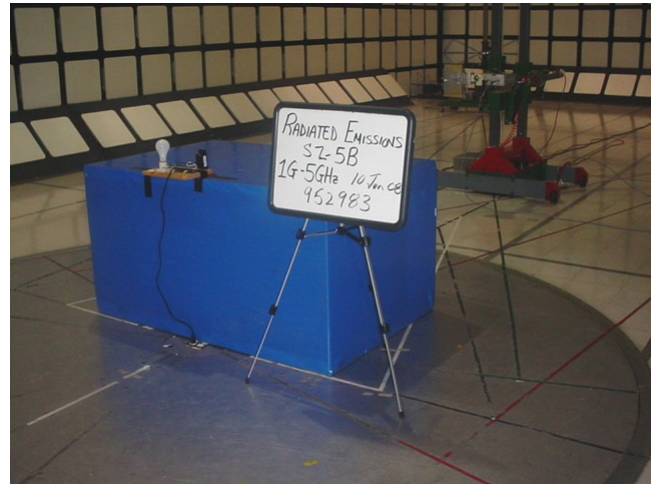
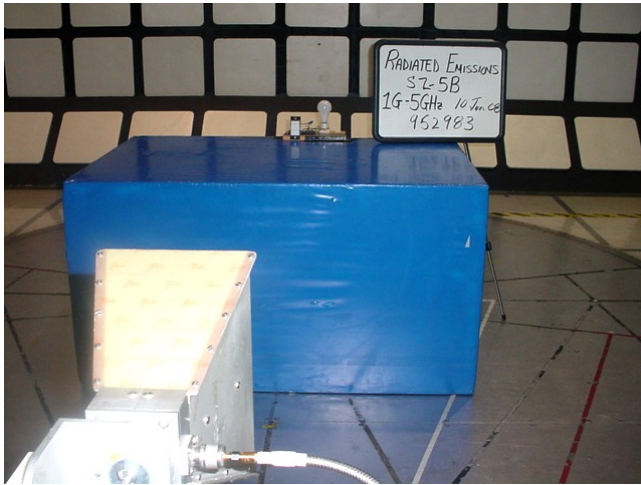
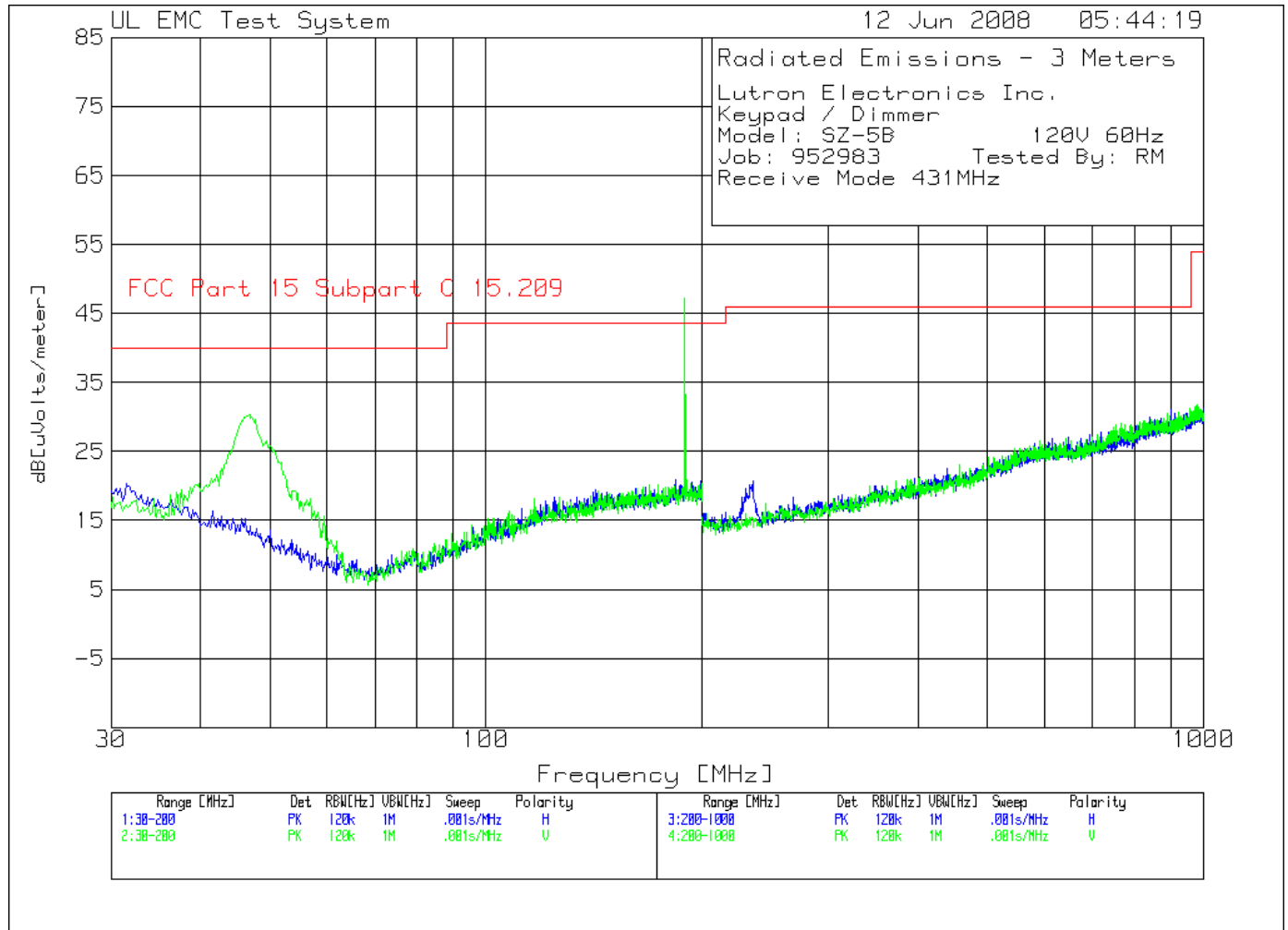


Figure 26 Radiated Emissions Graph



Note: limit shown is equivalent to FCC Part 15, Subpart B, Class B.

Table 17 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode 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 30 - 200MHz											
1	31.5315	2.31 pk	.4	17.7	20.41	40	-	-	-	-	-
	Azimuth:133	Height:400	Horz	Margin [dB]		-19.59	-	-	-	-	-
2	142.3123	4.37 pk	.8	14.3	19.47	43.5	-	-	-	-	-
	Azimuth:20	Height:100	Horz	Margin [dB]		-24.03	-	-	-	-	-
Vertical 30 - 200MHz											
3	46.6767	19.3 pk	.4	10.6	30.3	40	-	-	-	-	-
	Azimuth:58	Height:100	Vert	Margin [dB]		-9.7	-	-	-	-	-
4	189.2793	30.2 pk	.9	16.2	47.3	43.5	-	-	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		3.8	-	-	-	-	-
Horizontal 200 - 1000MHz											
5	235.6178	7.74 pk	1	11.9	20.64	46	-	-	-	-	-
	Azimuth:67	Height:100	Horz	Margin [dB]		-25.36	-	-	-	-	-
6	649.0245	5.1 pk	1.6	20.4	27.1	46	-	-	-	-	-
	Azimuth:256	Height:100	Horz	Margin [dB]		-18.9	-	-	-	-	-
Vertical 200 - 1000MHz											
7	456.9285	4.76 pk	1.4	17	23.16	46	-	-	-	-	-
	Azimuth:18	Height:400	Vert	Margin [dB]		-22.84	-	-	-	-	-
8	766.6833	5.31 pk	1.7	22	29.01	46	-	-	-	-	-
	Azimuth:342	Height:100	Vert	Margin [dB]		-16.99	-	-	-	-	-

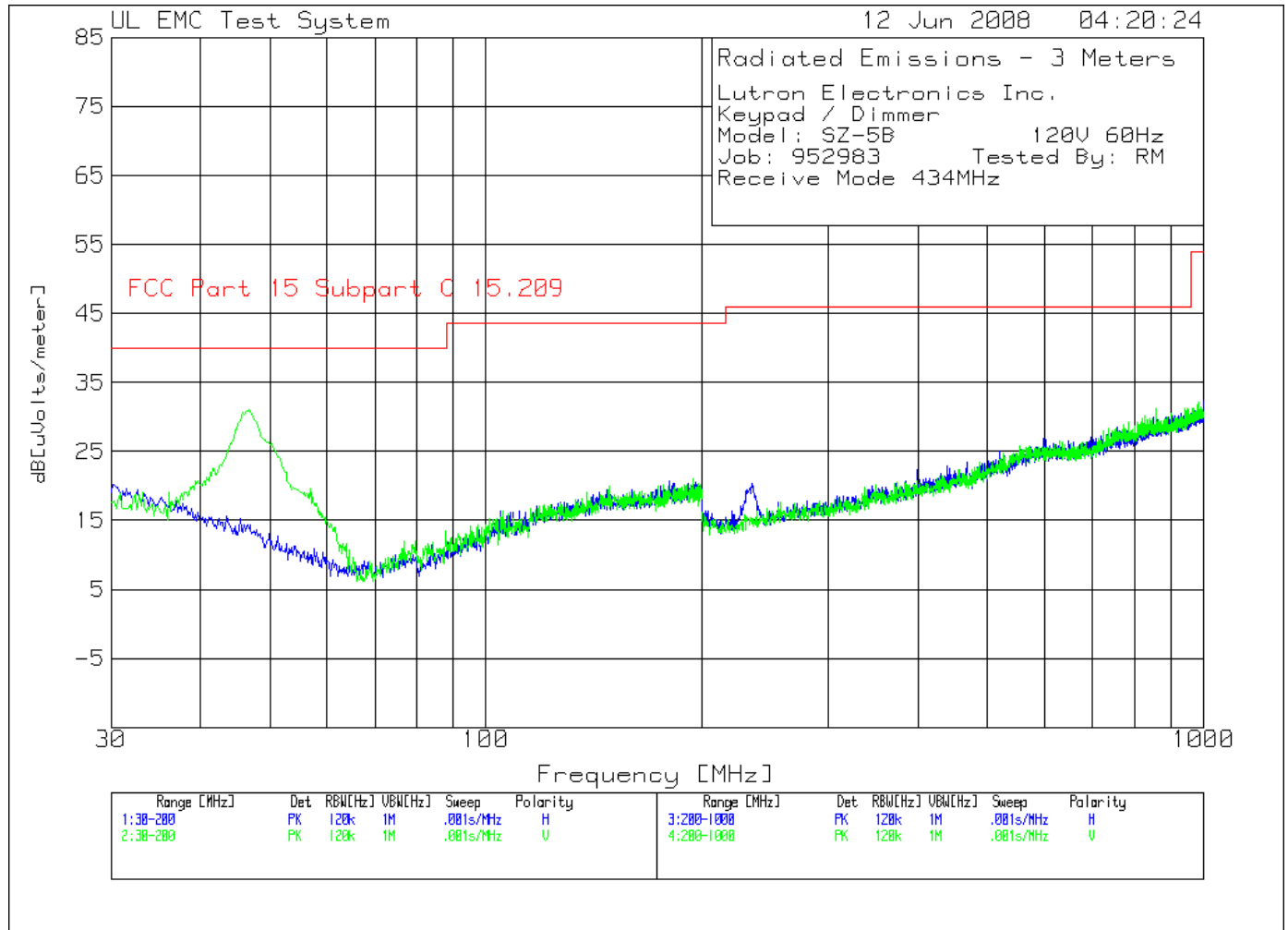
LIMIT 1: FCC Part 15 Subpart C 15.209

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Vertical 30 - 200MHz										
189.2793	8.13 qp	.9	16.2	25.23	43.5	-	-	-	-	-
	Azimuth: 234	Height:177	Vert	Margin [dB]:		-18.27	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B, Class B

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

Figure 27 Radiated Emissions Graph



Note: limit shown is equivalent to FCC Part 15, Subpart B, Class B.

Table 18 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode 434MHz

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	32.7227	1.65 pk	.4	17.3	19.35	40	-	-	-	-	-
		Azimuth:209	Height:250 Horz	Margin [dB]		-20.65	-	-	-	-	-
2	179.9199	4.49 pk	.8	15.4	20.69	43.5	-	-	-	-	-
		Azimuth:171	Height:400 Horz	Margin [dB]		-22.81	-	-	-	-	-

Vertical 30 - 200MHz -----											
3	46.6767	20.03 pk	.4	10.6	31.03	40	-	-	-	-	-
		Azimuth:96	Height:100 Vert	Margin [dB]		-8.97	-	-	-	-	-
4	148.2683	3.78 pk	.7	15.5	19.98	43.5	-	-	-	-	-
		Azimuth:21	Height:100 Vert	Margin [dB]		-23.52	-	-	-	-	-

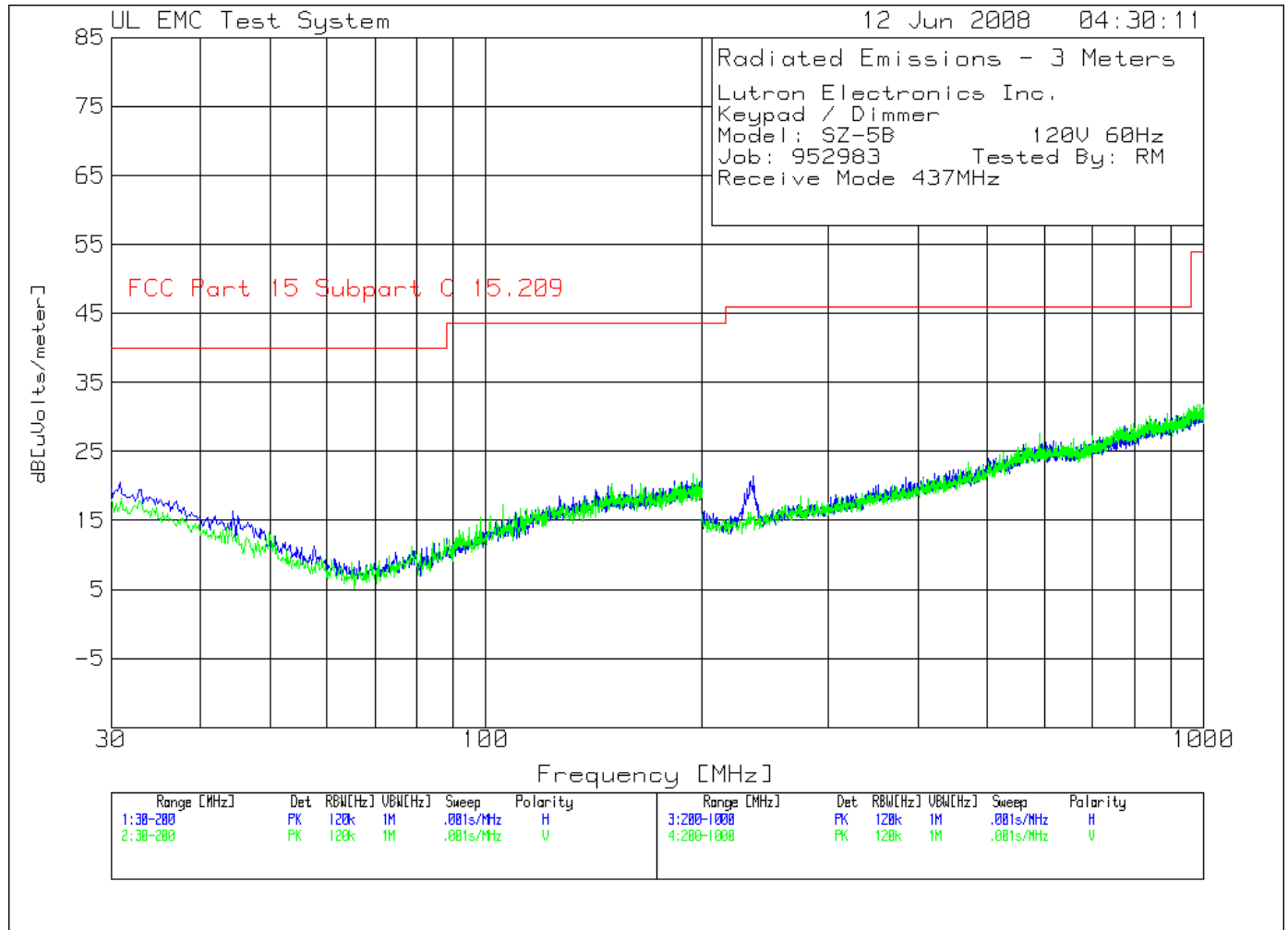
Horizontal 200 - 1000MHz -----											
5	234.4172	7.47 pk	1	11.9	20.37	46	-	-	-	-	-
		Azimuth:348	Height:200 Horz	Margin [dB]		-25.63	-	-	-	-	-
6	467.7339	4.63 pk	1.4	17.4	23.43	46	-	-	-	-	-
		Azimuth:17	Height:300 Horz	Margin [dB]		-22.57	-	-	-	-	-

Vertical 200 - 1000MHz -----											
7	629.8149	4.75 pk	1.6	20.2	26.55	46	-	-	-	-	-
		Azimuth:256	Height:200 Vert	Margin [dB]		-19.45	-	-	-	-	-
8	858.3292	6.26 pk	1.7	23.2	31.16	46	-	-	-	-	-
		Azimuth:150	Height:300 Vert	Margin [dB]		-14.84	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B, Class B

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

Figure 28 Radiated Emissions Graph



Note: limit shown is equivalent to FCC Part 15, Subpart B, Class B.

Table 19 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Receive Mode 437MHz

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

Horizontal 30 - 200MHz -----											
1	33.0631	1.88 pk	.4	17.2	19.48	40	-	-	-	-	-
		Azimuth:322	Height:100 Horz	Margin [dB]		-20.52	-	-	-	-	-
2	147.7578	4.8 pk	.7	14.4	19.9	43.5	-	-	-	-	-
		Azimuth:134	Height:250 Horz	Margin [dB]		-23.6	-	-	-	-	-

Vertical 30 - 200MHz -----											
3	43.4434	2.02 pk	.4	11.6	14.02	40	-	-	-	-	-
		Azimuth:135	Height:100 Vert	Margin [dB]		-25.98	-	-	-	-	-
4	194.2142	4.64 pk	.9	16.2	21.74	43.5	-	-	-	-	-
		Azimuth:60	Height:100 Vert	Margin [dB]		-21.76	-	-	-	-	-

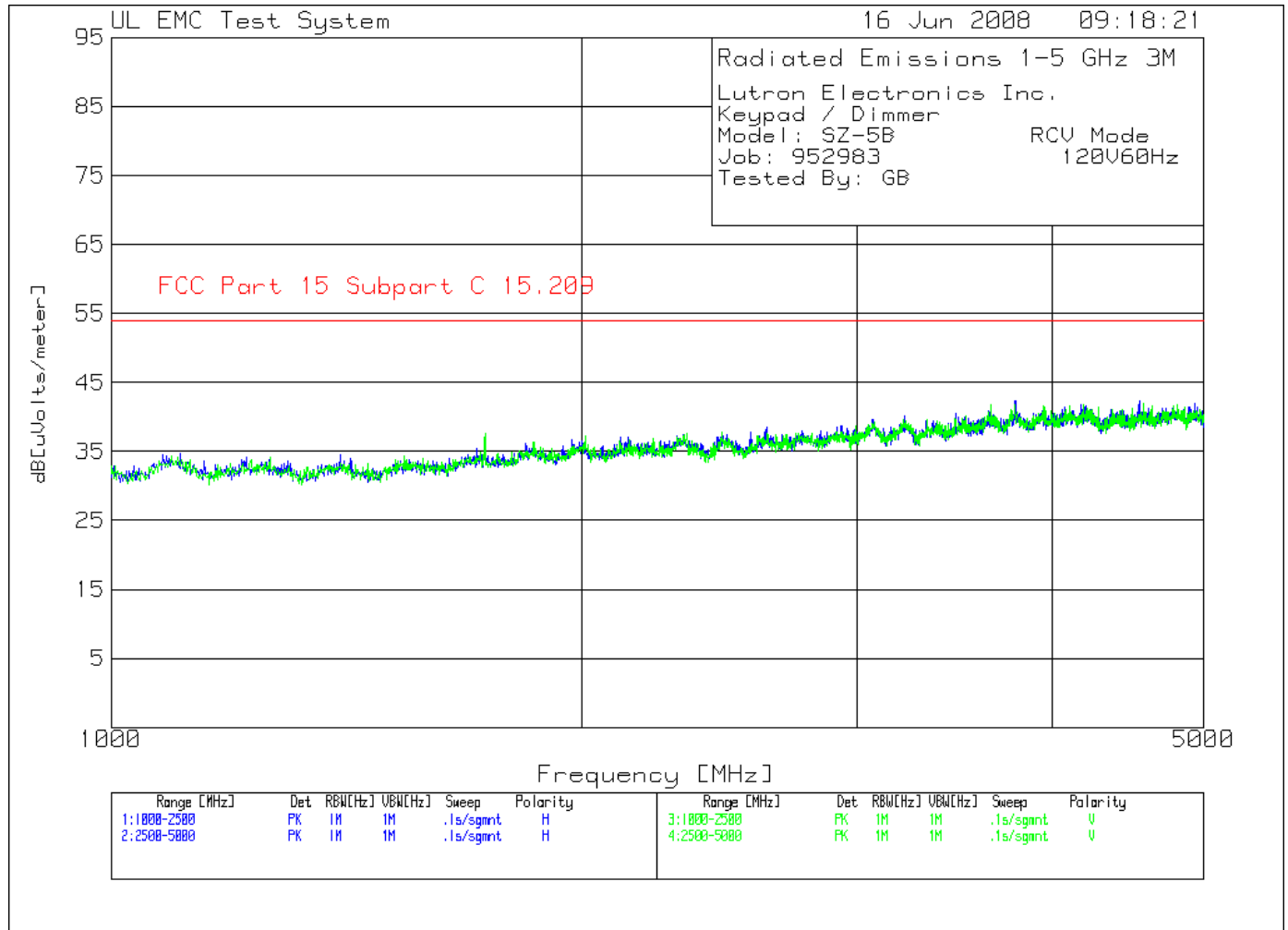
Horizontal 200 - 1000MHz -----											
5	235.6178	8.62 pk	1	11.9	21.52	46	-	-	-	-	-
		Azimuth:342	Height:100 Horz	Margin [dB]		-24.48	-	-	-	-	-
6	352.076	3.41 pk	1.2	15.6	20.21	46	-	-	-	-	-
		Azimuth:318	Height:400 Horz	Margin [dB]		-25.79	-	-	-	-	-

Vertical 200 - 1000MHz -----											
7	590.1951	6.16 pk	1.7	19.8	27.66	46	-	-	-	-	-
		Azimuth:316	Height:400 Vert	Margin [dB]		-18.34	-	-	-	-	-
8	953.1766	5.33 pk	1.9	24.1	31.33	46	-	-	-	-	-
		Azimuth:275	Height:200 Vert	Margin [dB]		-14.67	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B, Class B

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

Figure 29 Radiated Emissions Graph



Note: limit shown is equivalent to FCC Part 15, Subpart B, Class B.

Table 20 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B RCV Mode
 Job: 952983 120V60Hz
 Tested By: GB

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2500MHz -----											
1	1106.607	41.63 pk	-32.2	25.2	34.63	54	-	-	-	-	-
	Azimuth:359	Height:100	Horz	Margin [dB]	-19.37	-	-	-	-	-	-
2	1400.901	40.69 pk	-31.2	25	34.49	54	-	-	-	-	-
	Azimuth:54	Height:100	Horz	Margin [dB]	-19.51	-	-	-	-	-	-
Horizontal 2500 - 5000MHz -----											
6	3789.193	35.94 pk	-25.5	31.9	42.34	54	-	-	-	-	-
	Azimuth:307	Height:100	Horz	Margin [dB]	-11.66	-	-	-	-	-	-
Vertical 1000 - 2500MHz -----											
3	1735.736	41.72 pk	-30.5	26.4	37.62	54	-	-	-	-	-
	Azimuth:26	Height:200	Vert	Margin [dB]	-16.38	-	-	-	-	-	-
4	2010.511	39.12 pk	-29.7	27.8	37.22	54	-	-	-	-	-
	Azimuth:165	Height:100	Vert	Margin [dB]	-16.78	-	-	-	-	-	-
Vertical 2500 - 5000MHz -----											
5	3657.438	36.27 pk	-26	31.6	41.87	54	-	-	-	-	-
	Azimuth:140	Height:200	Vert	Margin [dB]	-12.13	-	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B, Class B

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

Figure 30 Radiated Emissions Graph

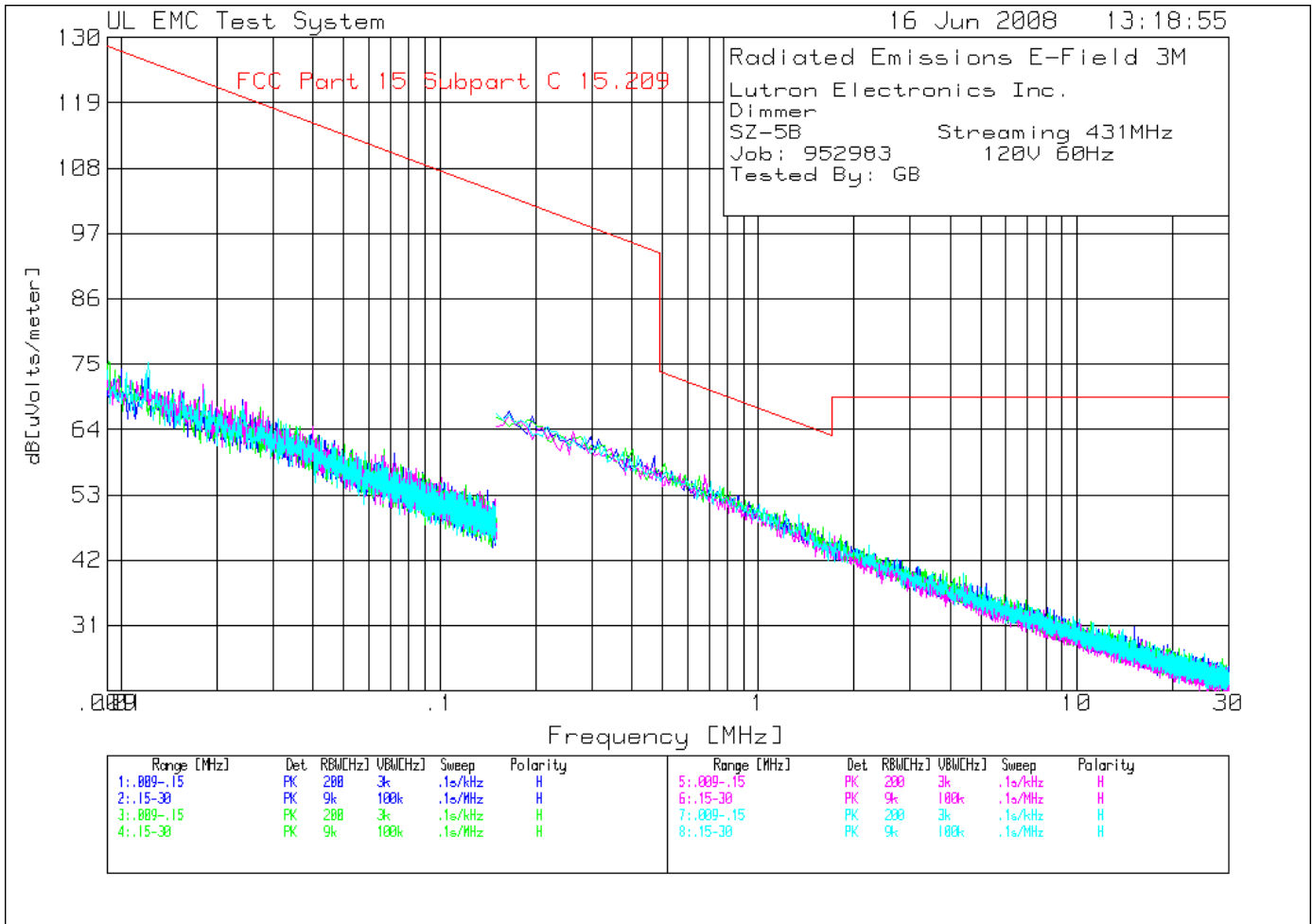


Table 21 Radiated Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B Streaming 431MHz
 Job: 952983 120V 60Hz
 Tested By: GB

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

0°	.15 - 30MHz										
5	.47097	44.14 pk	0	15.5	59.64	94.1	-	-	-	-	-
	Azimuth:23	Height:100	Horz	Margin [dB]		-34.46	-	-	-	-	-

90°	.009 - .15MHz										
2	.01803	47.05 pk	0	24.5	71.55	122.5	-	-	-	-	-
	Azimuth:354	Height:141	Horz	Margin [dB]		-50.95	-	-	-	-	-
3	.02463	46.15 pk	0	22.5	68.65	119.8	-	-	-	-	-
	Azimuth:354	Height:141	Horz	Margin [dB]		-51.15	-	-	-	-	-
4	.04003	44.8 pk	0	19.7	64.5	115.5	-	-	-	-	-
	Azimuth:1	Height:141	Horz	Margin [dB]		-51	-	-	-	-	-

90°	.15 - 30MHz										
6	.67997	40.78 pk	0	15.5	56.28	71	-	-	-	-	-
	Azimuth:354	Height:141	Horz	Margin [dB]		-14.72	-	-	-	-	-

135°	.009 - .15MHz										
1	.0121	47.1 pk	.1	28	75.2	125.9	-	-	-	-	-
	Azimuth:304	Height:160	Horz	Margin [dB]		-50.7	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Figure 31 Radiated Emissions Graph

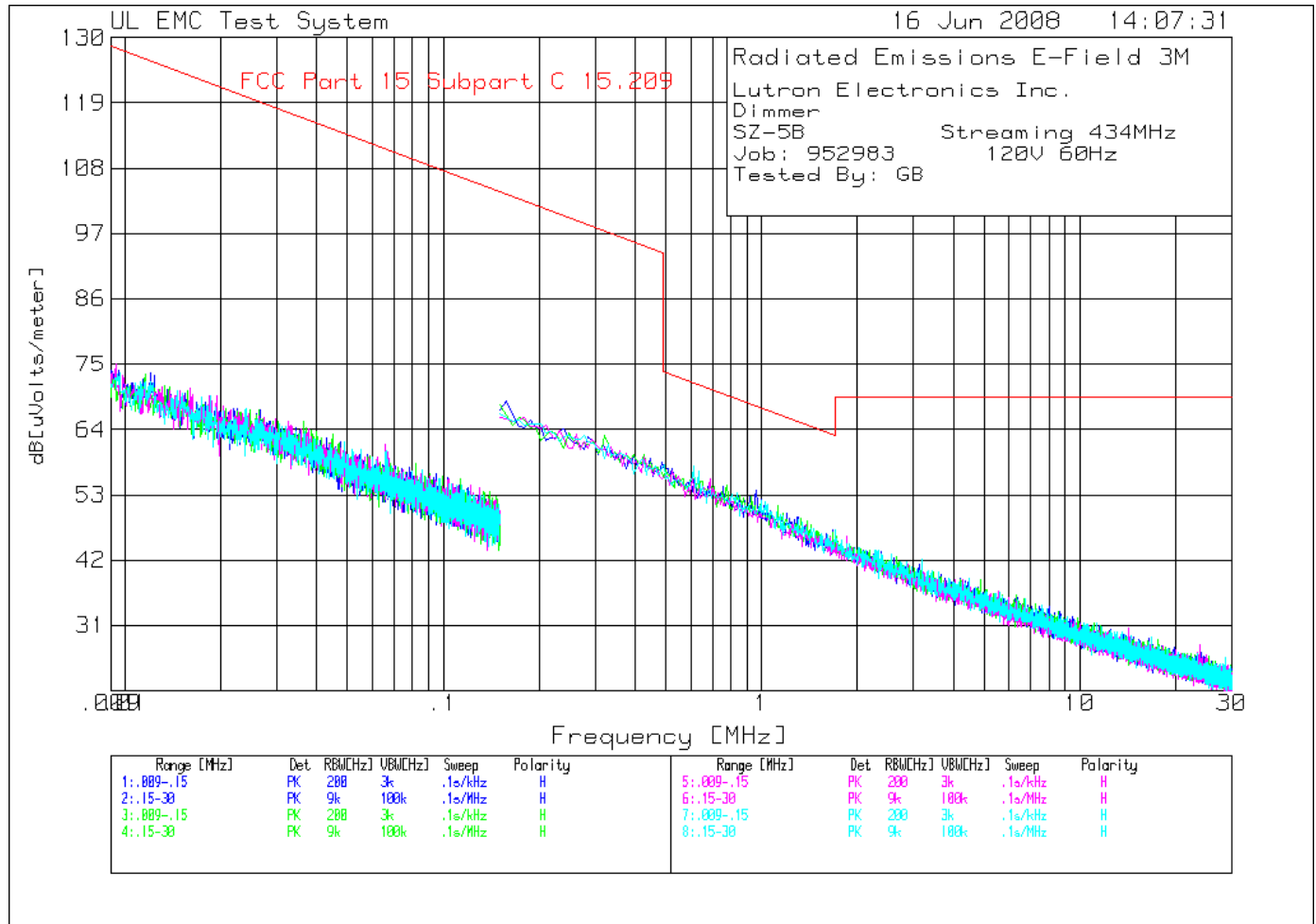


Table 22 Radiated Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B Streaming 434MHz
 Job: 952983 120V 60Hz
 Tested By: GB

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

0°	.009 - .15MHz										
1	.01205	45.24 pk	.2	28	73.44	126	-	-	-	-	-
	Azimuth:134	Height:100	Horz	Margin [dB]		-52.56	-	-	-	-	-

0°	.15 - 30MHz										
6	.96362	38.33 pk	0	15.5	53.83	67.9	-	-	-	-	-
	Azimuth:22	Height:100	Horz	Margin [dB]		-14.07	-	-	-	-	-

45°	.15 - 30MHz										
5	.32168	47.43 pk	0	15.6	63.03	97.5	-	-	-	-	-
	Azimuth:276	Height:121	Horz	Margin [dB]		-34.47	-	-	-	-	-

90°	.009 - .15MHz										
2	.01594	45.12 pk	.1	25.7	70.92	123.5	-	-	-	-	-
	Azimuth:58	Height:141	Horz	Margin [dB]		-52.58	-	-	-	-	-
3	.01938	46.13 pk	-.1	23.7	69.73	121.8	-	-	-	-	-
	Azimuth:283	Height:141	Horz	Margin [dB]		-52.07	-	-	-	-	-
4	.06548	44.45 pk	0	17.1	61.55	111.3	-	-	-	-	-
	Azimuth:354	Height:141	Horz	Margin [dB]		-49.75	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Figure 32 Radiated Emissions Graph

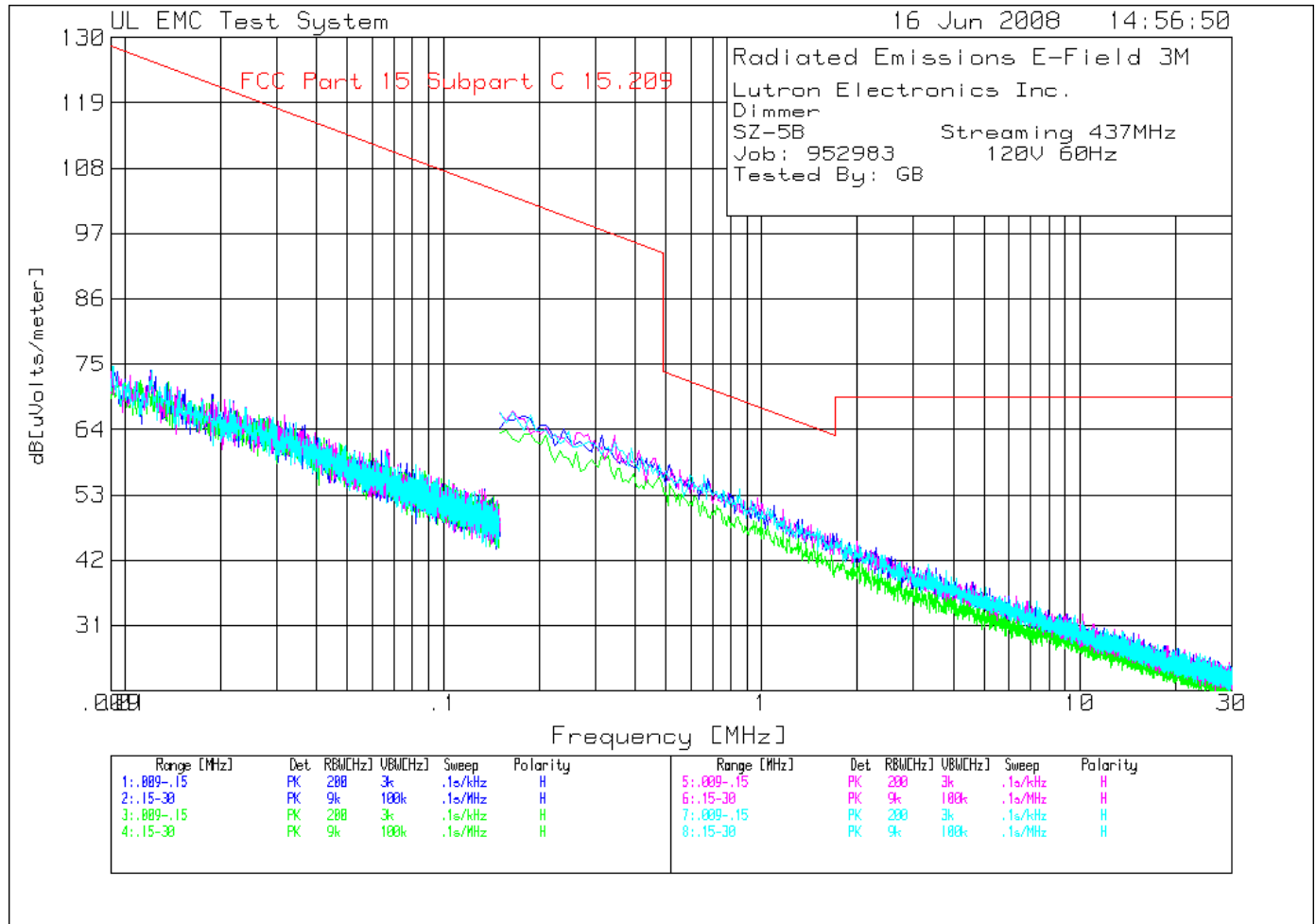


Table 23 Radiated Emissions Data Points

Lutron Electronics Inc.
 Dimmer
 SZ-5B-WH Streaming 437MHz
 Job: 952983 120V 60Hz
 Tested By: GB

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

0°	.009 - .15MHz	-----									
1	.01205	45.83 pk	.2	28	74.03	126	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-51.97	-	-	-	-	-
2	.01876	45.81 pk	0	24.1	69.91	122.1	-	-	-	-	-
	Azimuth:59	Height:100	Horz	Margin [dB]		-52.19	-	-	-	-	-

90°	.009 - .15MHz	-----									
3	.03174	45.19 pk	0	21.2	66.39	117.6	-	-	-	-	-
	Azimuth:354	Height:141	Horz	Margin [dB]		-51.21	-	-	-	-	-
4	.06661	43.62 pk	0	17.1	60.72	111.1	-	-	-	-	-
	Azimuth:6	Height:141	Horz	Margin [dB]		-50.38	-	-	-	-	-

90°	.15 - 30MHz	-----									
5	.34407	47.5 pk	0	15.6	63.1	96.9	-	-	-	-	-
	Azimuth:145	Height:141	Horz	Margin [dB]		-33.8	-	-	-	-	-
6	1.16515	35.02 pk	.1	15.5	50.62	66.3	-	-	-	-	-
	Azimuth:22	Height:141	Horz	Margin [dB]		-15.68	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Figure 33 Radiated Emissions Graph

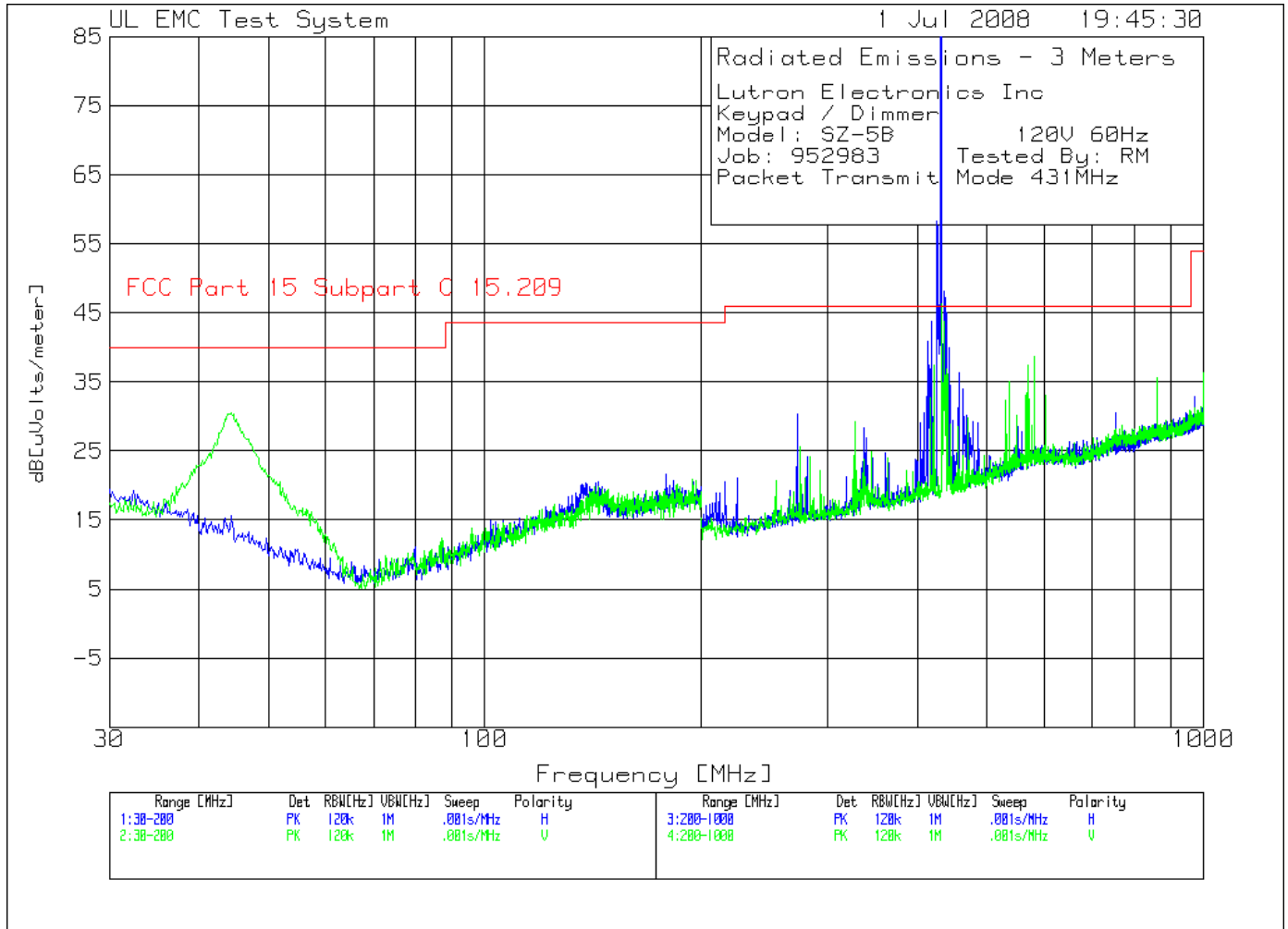


Table 24 Radiated Emissions Data Points

Lutron Electronics Inc
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Packet Transmit Mode 431MHz

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	138.2282	5.49 pk	.7	14.2	20.39	43.5	-	-	-	-	-
	Azimuth:228	Height:250	Horz	Margin [dB]		-23.11	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	44.2943	18.9 pk	.4	11.3	30.6	40	-	-	-	-	-
	Azimuth:97	Height:100	Vert	Margin [dB]		-9.4	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
3	413.7069	22.91 pk	1.3	16.6	40.81	46	-	-	-	-	-
	Azimuth:94	Height:300	Horz	Margin [dB]		-5.19	-	-	-	-	-
4	414.9075	19.59 pk	1.3	16.6	37.49	46	-	-	-	-	-
	Azimuth:94	Height:300	Horz	Margin [dB]		-8.51	-	-	-	-	-
5	418.1091	25.87 pk	1.3	16.6	43.77	46	-	-	-	-	-
	Azimuth:94	Height:300	Horz	Margin [dB]		-2.23	-	-	-	-	-
6	424.9125	32.29 pk	1.3	16.6	50.19	46	-	-	-	-	-
	Azimuth:343	Height:100	Horz	Margin [dB]		4.19	-	-	-	-	-
7	425.7129	40.31 pk	1.3	16.6	58.21	46	-	-	-	-	-
	Azimuth:16	Height:300	Horz	Margin [dB]		12.21	-	-	-	-	-
8	426.9135	39.69 pk	1.3	16.6	57.59	46	-	-	-	-	-
	Azimuth:343	Height:400	Horz	Margin [dB]		11.59	-	-	-	-	-
9	428.9145	28.14 pk	1.3	16.6	46.04	46	-	-	-	-	-
	Azimuth:343	Height:400	Horz	Margin [dB]		.04	-	-	-	-	-
10	430.9155	77.4 pk	1.3	16.6	95.3	46	-	-	-	-	-
	Azimuth:343	Height:400	Horz	Margin [dB]		49.3	-	-	-	-	-
11	432.9165	22.42 pk	1.3	16.7	40.42	46	-	-	-	-	-
	Azimuth:227	Height:400	Horz	Margin [dB]		-5.58	-	-	-	-	-
12	434.9175	30.11 pk	1.3	16.8	48.21	46	-	-	-	-	-
	Azimuth:227	Height:100	Horz	Margin [dB]		2.21	-	-	-	-	-
13	436.9185	20.78 pk	1.3	16.9	38.98	46	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		-7.02	-	-	-	-	-
14	437.7189	29.07 pk	1.3	16.9	47.27	46	-	-	-	-	-
	Azimuth:227	Height:300	Horz	Margin [dB]		1.27	-	-	-	-	-
15	439.3197	21.38 pk	1.3	17	39.68	46	-	-	-	-	-
	Azimuth:227	Height:100	Horz	Margin [dB]		-6.32	-	-	-	-	-
16	442.5213	21.48 pk	1.3	17.1	39.88	46	-	-	-	-	-
	Azimuth:227	Height:300	Horz	Margin [dB]		-6.12	-	-	-	-	-
17	272.036	15.96 pk	1.1	13.2	30.26	46	-	-	-	-	-
	Azimuth:95	Height:100	Horz	Margin [dB]		-15.74	-	-	-	-	-

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

Job Number: 952983 File Number: MC15896 Page 96 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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 200 - 1000MHz -----											
18	326.8634	13.83 pk	1.2	14.2	29.23	46	-	-	-	-	-
	Azimuth:17	Height:199	Vert	Margin [dB]		-16.77	-	-	-	-	-
19	420.9105	19.83 pk	1.3	16.3	37.43	46	-	-	-	-	-
	Azimuth:227	Height:400	Vert	Margin [dB]		-8.57	-	-	-	-	-
20	432.1161	28.65 pk	1.3	16.3	46.25	46	-	-	-	-	-
	Azimuth:358	Height:400	Vert	Margin [dB]		.25	-	-	-	-	-
21	434.5173	26.03 pk	1.3	16.4	43.73	46	-	-	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-2.27	-	-	-	-	-
22	438.1191	18.82 pk	1.3	16.5	36.62	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		-9.38	-	-	-	-	-
23	438.9195	19.11 pk	1.3	16.5	36.91	46	-	-	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-9.09	-	-	-	-	-
24	440.5203	18.39 pk	1.3	16.5	36.19	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		-9.81	-	-	-	-	-
25	580.5903	17.36 pk	1.6	19.7	38.66	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		-7.34	-	-	-	-	-
26	862.3312	10.67 pk	1.7	23.2	35.57	46	-	-	-	-	-
	Azimuth:358	Height:400	Vert	Margin [dB]		-10.43	-	-	-	-	-

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

Job Number: 952983 File Number: MC15896 Page 97 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics Inc

Keypad / Dimmer

Model: SZ-5B 120V 60Hz

Job: 952983 Tested By: RM

Packet Transmit Mode 431MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
431.0082	82.2	1.3	16.6	80.13*	-	80.7	-	-	-	-
Azimuth: 173 Height:263 Horz					Margin [dB]:	-0.57	-	-	-	-
427.0177	24.78 qp	1.3	16.6	42.68	46	-	-	-	-	-
Azimuth: 191 Height:286 Horz					Margin [dB]:	-3.32	-	-	-	-
424.9967	27.04 qp	1.3	16.6	44.94	46	-	-	-	-	-
Azimuth: 182 Height:284 Horz					Margin [dB]:	-1.06	-	-	-	-
425.7129	21.39 qp	1.3	16.6	39.29	46	-	-	-	-	-
Azimuth: 192 Height:275 Horz					Margin [dB]:	-6.71	-	-	-	-
416.9998	14.88 qp	1.3	16.6	32.78	46	-	-	-	-	-
Azimuth: 188 Height:282 Horz					Margin [dB]:	-13.22	-	-	-	-
418.1091	9.73 qp	1.3	16.6	27.63	46	-	-	-	-	-
Azimuth: 184 Height:281 Horz					Margin [dB]:	-18.37	-	-	-	-
414.9986	16.12 qp	1.3	16.6	34.02	46	-	-	-	-	-
Azimuth: 183 Height:310 Horz					Margin [dB]:	-11.98	-	-	-	-
413.7069	8.41 qp	1.3	16.6	26.31	46	-	-	-	-	-
Azimuth: 2 Height:264 Horz					Margin [dB]:	-19.69	-	-	-	-
433.0202	24.18 qp	1.3	16.7	42.18	46	-	-	-	-	-
Azimuth: 221 Height:264 Horz					Margin [dB]:	-3.82	-	-	-	-
434.2727	21.92 qp	1.3	16.8	40.02	46	-	-	-	-	-
Azimuth: 172 Height:248 Horz					Margin [dB]:	-5.98	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Job Number: 952983 File Number: MC15896 Page 98 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
434.9175	20.98 qp	1.3	16.8	39.08	46	-	-	-	-	-
Azimuth: 179 Height:264 Horz					Margin [dB]:	-6.92	-	-	-	-
437.9304	26.35 qp	1.3	16.9	44.55	46	-	-	-	-	-
Azimuth: 185 Height:255 Horz					Margin [dB]:	-1.45	-	-	-	-
862.0711	17.88 pk	1.7	22.9	42.48	46	-	-	-	-	-
Azimuth: 11 Height:172 Horz					Margin [dB]:	-3.52	-	-	-	-
440.9929	10.75 qp	1.3	17	29.05	46	-	-	-	-	-
Azimuth: 360 Height:238 Horz					Margin [dB]:	-16.95	-	-	-	-
442.5213	9.25 qp	1.3	17.1	27.65	46	-	-	-	-	-
Azimuth: 341 Height:216 Horz					Margin [dB]:	-18.35	-	-	-	-
423.992	26.57 qp	1.3	16.6	44.47	46	-	-	-	-	-
Azimuth: 130 Height:105 Horz					Margin [dB]:	-1.53	-	-	-	-
428.912	25.45 qp	1.3	16.6	43.35	46	-	-	-	-	-
Azimuth: 133 Height:110 Horz					Margin [dB]:	-2.65	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Note: At 862.0711MHz the maximized peak was below the QP limit, no correction factor was applied.

Job Number: 952983 File Number: MC15896 Page 99 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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	200 - 1000MHz									
431.0321	78.37 pk	1.3	16.3	75.97*	-	80.7	-	-	-	-
Azimuth: 155	Height:126	Vert	Margin [dB]:	-4.73						
862.0635	20.88 pk	1.7	23.2	45.78	46	-	-	-	-	-
Azimuth: 37	Height:147	Vert	Margin [dB]:	-2.22						
862.0635	18.62 qp	1.7	23.2	43.52	46	-	-	-	-	-
Azimuth: 37	Height:147	Vert	Margin [dB]:	-2.48						
431.9937	24.3 qp	1.3	16.3	41.9	46	-	-	-	-	-
Azimuth: 172	Height:127	Vert	Margin [dB]:	-4.1						
433.003	23.64 qp	1.3	16.4	41.34	46	-	-	-	-	-
Azimuth: 162	Height:109	Vert	Margin [dB]:	-4.66						
434.5173	16.86 qp	1.3	16.4	34.56	46	-	-	-	-	-
Azimuth: 156	Height:117	Vert	Margin [dB]:	-11.44						

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Note: At 862.0635MHz the maximized peak was below the QP limit, no correction factor was applied.

Figure 34 Radiated Emissions Graph

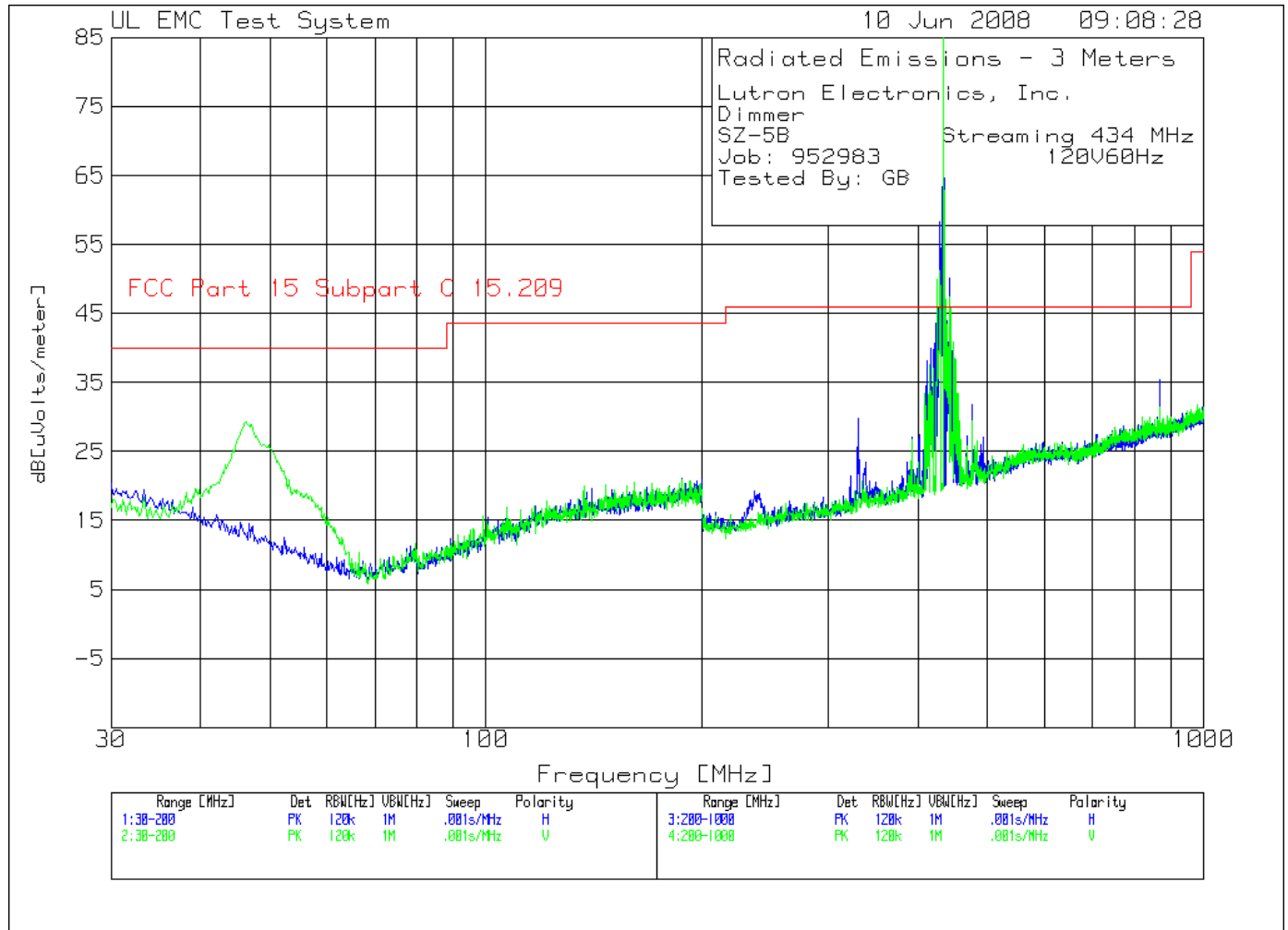


Table 25 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Dimmer
 SZ-5B Streaming 434 MHz
 Job: 952983 120V60Hz
 Tested By: GB

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

1	421.3107	22.77 pk	1.3	16.6	40.67	46	-	-	-	-	-
	Azimuth:101	Height:100	Horz	Margin [dB]		-5.33	-	-	-	-	-
2	424.1121	25.6 pk	1.3	16.6	43.5	46	-	-	-	-	-
	Azimuth:356	Height:250	Horz	Margin [dB]		-2.5	-	-	-	-	-
3	427.7139	40.47 pk	1.3	16.6	58.37	46	-	-	-	-	-
	Azimuth:187	Height:100	Horz	Margin [dB]		12.37	-	-	-	-	-
4	429.3147	36.5 pk	1.3	16.6	54.4	46	-	-	-	-	-
	Azimuth:358	Height:200	Horz	Margin [dB]		8.4	-	-	-	-	-
5	432.1161	45.33 pk	1.3	16.7	63.33	46	-	-	-	-	-
	Azimuth:316	Height:100	Horz	Margin [dB]		17.33	-	-	-	-	-
6	433.7169	78.27 pk	1.3	16.7	96.27	46	-	-	-	-	-
	Azimuth:230	Height:150	Horz	Margin [dB]		50.27	-	-	-	-	-
7	435.7179	39.03 pk	1.3	16.8	57.13	46	-	-	-	-	-
	Azimuth:230	Height:150	Horz	Margin [dB]		11.13	-	-	-	-	-
8	437.7189	23.59 pk	1.3	16.9	41.79	46	-	-	-	-	-
	Azimuth:17	Height:200	Horz	Margin [dB]		-4.21	-	-	-	-	-
9	439.3197	25.61 pk	1.3	17	43.91	46	-	-	-	-	-
	Azimuth:101	Height:200	Horz	Margin [dB]		-2.09	-	-	-	-	-
10	442.1211	31.83 pk	1.3	17	50.13	46	-	-	-	-	-
	Azimuth:356	Height:100	Horz	Margin [dB]		4.13	-	-	-	-	-
11	444.1221	23.66 pk	1.3	17.1	42.06	46	-	-	-	-	-
	Azimuth:316	Height:100	Horz	Margin [dB]		-3.94	-	-	-	-	-
12	446.5233	21.19 pk	1.3	17.1	39.59	46	-	-	-	-	-
	Azimuth:17	Height:100	Horz	Margin [dB]		-6.41	-	-	-	-	-

Job Number: 952983 File Number: MC15896 Page 102 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Vertical 200 - 1000MHz -----

13	424.5123	32.29 pk	1.3	16.3	49.89	46	-	-	-	-	-
	Azimuth:15	Height:100	Vert	Margin [dB]		3.89	-	-	-	-	-
14	428.9145	33.65 pk	1.3	16.3	51.25	46	-	-	-	-	-
	Azimuth:15	Height:100	Vert	Margin [dB]		5.25	-	-	-	-	-
15	434.1171	75.21 pk	1.3	16.4	92.91	46	-	-	-	-	-
	Azimuth:358	Height:250	Vert	Margin [dB]		46.91	-	-	-	-	-
16	436.1181	31.64 pk	1.3	16.4	49.34	46	-	-	-	-	-
	Azimuth:358	Height:200	Vert	Margin [dB]		3.34	-	-	-	-	-
17	437.3187	29.4 pk	1.3	16.4	47.1	46	-	-	-	-	-
	Azimuth:358	Height:150	Vert	Margin [dB]		1.1	-	-	-	-	-
18	440.1201	22.29 pk	1.3	16.5	40.09	46	-	-	-	-	-
	Azimuth:144	Height:150	Vert	Margin [dB]		-5.91	-	-	-	-	-
19	442.9215	29.5 pk	1.3	16.6	47.4	46	-	-	-	-	-
	Azimuth:230	Height:100	Vert	Margin [dB]		1.4	-	-	-	-	-
20	444.5223	27.9 pk	1.3	16.7	45.9	46	-	-	-	-	-
	Azimuth:230	Height:100	Vert	Margin [dB]		-.1	-	-	-	-	-
21	448.5243	22.83 pk	1.3	16.8	40.93	46	-	-	-	-	-
	Azimuth:17	Height:100	Vert	Margin [dB]		-5.07	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection

Job Number: 952983 File Number: MC15896 Page 103 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics, Inc.
 Dimmer
 SZ-5B Streaming 434 MHz
 Job: 952983 120V60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 200 - 1000MHz										
433.7301	79.54 pk	1.3	16.7	77.54*	-	80.8	-	-	-	-
Azimuth: 40	Height:111	Horz		Margin [dB]:	-3.26	-	-	-	-	-
432.1	19.24 qp	1.3	16.7	37.24	46	-	-	-	-	-
Azimuth: 153	Height:101	Horz		Margin [dB]:	-8.76	-	-	-	-	-
427.9705	19.7 qp	1.3	16.6	37.6	46	-	-	-	-	-
Azimuth: 81	Height:391	Horz		Margin [dB]:	-8.4	-	-	-	-	-
432.6038	20.69 qp	1.3	16.7	38.69	46	-	-	-	-	-
Azimuth: 37	Height:279	Horz		Margin [dB]:	-7.31	-	-	-	-	-
442.2	16.69 qp	1.3	17	34.99	46	-	-	-	-	-
Azimuth: 69	Height:226	Horz		Margin [dB]:	-11.01	-	-	-	-	-
421.3	16.48 qp	1.3	16.6	34.38	46	-	-	-	-	-
Azimuth: 214	Height:124	Horz		Margin [dB]:	-11.62	-	-	-	-	-
424.1	16.69 qp	1.3	16.6	34.59	46	-	-	-	-	-
Azimuth: 248	Height:295	Horz		Margin [dB]:	-11.41	-	-	-	-	-
438.179	17.3 qp	1.3	16.9	35.5	46	-	-	-	-	-
Azimuth: 87	Height:247	Horz		Margin [dB]:	-10.5	-	-	-	-	-
439.4754	16.9 qp	1.3	17	35.2	46	-	-	-	-	-
Azimuth: 191	Height:300	Horz		Margin [dB]:	-10.8	-	-	-	-	-
444.4517	16.48 qp	1.3	17.1	34.88	46	-	-	-	-	-
Azimuth: 80	Height:146	Horz		Margin [dB]:	-11.12	-	-	-	-	-
446.5	16.48 qp	1.3	17.1	34.88	46	-	-	-	-	-
Azimuth: 7	Height:217	Horz		Margin [dB]:	-11.12	-	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Job Number: 952983 File Number: MC15896 Page 104 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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	200 - 1000MHz									
424.8226	9.25 qp	1.3	16.3	26.85	46	-	-	-	-	-
Azimuth: 196	Height:161	Vert	Margin [dB]:	-19.15		-	-	-	-	-
428.9	13.06 qp	1.3	16.3	30.66	46	-	-	-	-	-
Azimuth: 154	Height:336	Vert	Margin [dB]:	-15.34		-	-	-	-	-
436.11	15.92 qp	1.3	16.4	33.62	46	-	-	-	-	-
Azimuth: 198	Height:379	Vert	Margin [dB]:	-12.38		-	-	-	-	-
437.31	16.63 qp	1.3	16.4	34.33	46	-	-	-	-	-
Azimuth: 187	Height:100	Vert	Margin [dB]:	-11.67		-	-	-	-	-
440.12	15.12 qp	1.3	16.5	32.92	46	-	-	-	-	-
Azimuth: 330	Height:107	Vert	Margin [dB]:	-13.08		-	-	-	-	-
443	10.58 qp	1.3	16.6	28.48	46	-	-	-	-	-
Azimuth: 22	Height:100	Vert	Margin [dB]:	-17.52		-	-	-	-	-
444.5	8.07 qp	1.3	16.7	26.07	46	-	-	-	-	-
Azimuth: 32	Height:155	Vert	Margin [dB]:	-19.93		-	-	-	-	-
448.5	7.72 qp	1.3	16.8	25.82	46	-	-	-	-	-
Azimuth: 30	Height:111	Vert	Margin [dB]:	-20.18		-	-	-	-	-
434	80.55 pk	1.3	16.4	78.25*	-	80.8	-	-	-	-
Azimuth: 30	Height:111	Vert	Margin [dB]:	-2.55		-	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 35 Radiated Emissions Graph

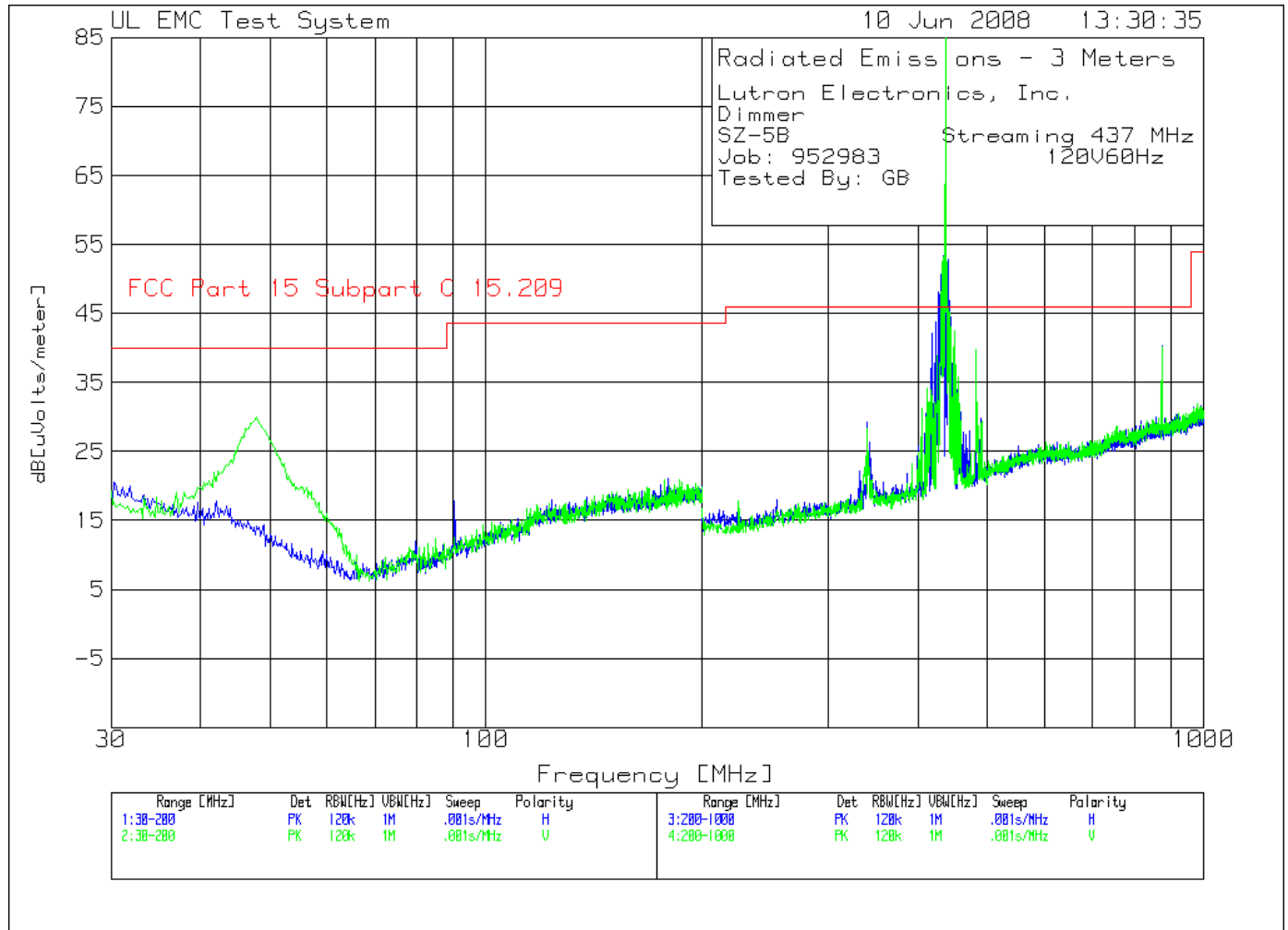


Table 26 Radiated Emissions Data Points

Lutron Electronics, Inc.
 Dimmer
 SZ-5B Streaming 437 MHz
 Job: 952983 120V60Hz
 Tested By: GB

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

1	418.5093	24.3 pk	1.3	16.6	42.2	46	-	-	-	-	-
	Azimuth:273	Height:100	Horz	Margin [dB]		-3.8	-	-	-	-	-
2	422.9115	25.94 pk	1.3	16.6	43.84	46	-	-	-	-	-
	Azimuth:187	Height:100	Horz	Margin [dB]		-2.16	-	-	-	-	-
3	426.5133	30.29 pk	1.3	16.6	48.19	46	-	-	-	-	-
	Azimuth:102	Height:100	Horz	Margin [dB]		2.19	-	-	-	-	-
4	427.7139	27.94 pk	1.3	16.6	45.84	46	-	-	-	-	-
	Azimuth:102	Height:250	Horz	Margin [dB]		-.16	-	-	-	-	-
5	428.5143	29.78 pk	1.3	16.6	47.68	46	-	-	-	-	-
	Azimuth:102	Height:150	Horz	Margin [dB]		1.68	-	-	-	-	-
6	429.7149	32.81 pk	1.3	16.6	50.71	46	-	-	-	-	-
	Azimuth:356	Height:150	Horz	Margin [dB]		4.71	-	-	-	-	-
7	431.3157	34.03 pk	1.3	16.7	52.03	46	-	-	-	-	-
	Azimuth:17	Height:100	Horz	Margin [dB]		6.03	-	-	-	-	-
8	432.9165	31.71 pk	1.3	16.7	49.71	46	-	-	-	-	-
	Azimuth:16	Height:150	Horz	Margin [dB]		3.71	-	-	-	-	-
9	434.1171	35.22 pk	1.3	16.8	53.32	46	-	-	-	-	-
	Azimuth:102	Height:150	Horz	Margin [dB]		7.32	-	-	-	-	-
10	436.9185	68.31 pk	1.3	16.9	86.51	46	-	-	-	-	-
	Azimuth:17	Height:100	Horz	Margin [dB]		40.51	-	-	-	-	-
11	438.5193	32 pk	1.3	16.9	50.2	46	-	-	-	-	-
	Azimuth:358	Height:250	Horz	Margin [dB]		4.2	-	-	-	-	-
12	440.1201	34.54 pk	1.3	17	52.84	46	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		6.84	-	-	-	-	-
13	442.1211	27.97 pk	1.3	17	46.27	46	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		.27	-	-	-	-	-
14	444.1221	26.03 pk	1.3	17.1	44.43	46	-	-	-	-	-
	Azimuth:102	Height:200	Horz	Margin [dB]		-1.57	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection

Job Number: 952983 File Number: MC15896 Page 107 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Vertical 200 - 1000MHz -----

15	430.1151	30.52 pk	1.3	16.3	48.12	46	-	-	-	-	-
	Azimuth:229	Height:200	Vert	Margin [dB]		2.12	-	-	-	-	-
16	431.7159	34.8 pk	1.3	16.3	52.4	46	-	-	-	-	-
	Azimuth:58	Height:150	Vert	Margin [dB]		6.4	-	-	-	-	-
17	434.5173	35.55 pk	1.3	16.4	53.25	46	-	-	-	-	-
	Azimuth:15	Height:200	Vert	Margin [dB]		7.25	-	-	-	-	-
18	435.3177	40.89 pk	1.3	16.4	58.59	46	-	-	-	-	-
	Azimuth:15	Height:150	Vert	Margin [dB]		12.59	-	-	-	-	-
19	436.9185	74.76 pk	1.3	16.4	92.46	46	-	-	-	-	-
	Azimuth:15	Height:150	Vert	Margin [dB]		46.46	-	-	-	-	-
20	438.5193	34.74 pk	1.3	16.5	52.54	46	-	-	-	-	-
	Azimuth:15	Height:250	Vert	Margin [dB]		6.54	-	-	-	-	-
21	439.7199	30.13 pk	1.3	16.5	47.93	46	-	-	-	-	-
	Azimuth:144	Height:150	Vert	Margin [dB]		1.93	-	-	-	-	-
22	442.1211	27.37 pk	1.3	16.6	45.27	46	-	-	-	-	-
	Azimuth:355	Height:100	Vert	Margin [dB]		-.73	-	-	-	-	-
23	444.5223	25.01 pk	1.3	16.7	43.01	46	-	-	-	-	-
	Azimuth:58	Height:200	Vert	Margin [dB]		-2.99	-	-	-	-	-
24	448.9245	24.3 pk	1.3	16.9	42.5	46	-	-	-	-	-
	Azimuth:357	Height:100	Vert	Margin [dB]		-3.5	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection

Job Number: 952983 File Number: MC15896 Page 108 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics, Inc.
 Dimmer
 SZ-5B Streaming 437 MHz
 Job: 952983 120V60Hz
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz										
437.0163	77.12 pk	1.3	16.9	75.32*	-	80.9	-	-	-	-
Azimuth: 24		Height:316		Horz		Margin [dB]: -5.58		-	-	-
434	23.52 qp	1.3	16.8	41.62	46	-	-	-	-	-
Azimuth: 207		Height:232		Horz		Margin [dB]: -4.38		-	-	-
440.12	17.3 qp	1.3	17	35.6	46	-	-	-	-	-
Azimuth: 116		Height:300		Horz		Margin [dB]: -10.4		-	-	-
431.3	16.9 qp	1.3	16.7	34.9	46	-	-	-	-	-
Azimuth: 157		Height:110		Horz		Margin [dB]: -11.1		-	-	-
433.1	24.17 qp	1.3	16.7	42.17	46	-	-	-	-	-
Azimuth: 52		Height:105		Horz		Margin [dB]: -3.83		-	-	-
438.6	22.71 qp	1.3	16.9	40.91	46	-	-	-	-	-
Azimuth: 37		Height:104		Horz		Margin [dB]: -5.09		-	-	-
429.7	20.42 qp	1.3	16.6	38.32	46	-	-	-	-	-
Azimuth: 56		Height:109		Horz		Margin [dB]: -7.68		-	-	-
428.6196	16.9 qp	1.3	16.6	34.8	46	-	-	-	-	-
Azimuth: 255		Height:142		Horz		Margin [dB]: -11.2		-	-	-
427.7	16.69 qp	1.3	16.6	34.59	46	-	-	-	-	-
Azimuth: 3		Height:105		Horz		Margin [dB]: -11.41		-	-	-
426.5	16.48 qp	1.3	16.6	34.38	46	-	-	-	-	-
Azimuth: 76		Height:104		Horz		Margin [dB]: -11.62		-	-	-
423	16.26 qp	1.3	16.6	34.16	46	-	-	-	-	-
Azimuth: 30		Height:104		Horz		Margin [dB]: -11.84		-	-	-
418.5	16.26 qp	1.3	16.6	34.16	46	-	-	-	-	-
Azimuth: 49		Height:106		Horz		Margin [dB]: -11.84		-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal) qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Job Number: 952983 File Number: MC15896 Page 109 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

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
442.1	23.32 qp	1.3	17	41.62	46	-	-	-	-	-
Azimuth: 189		Height:109 Horz		Margin [dB]:	-4.38	-	-	-	-	-
444.1	16.9 qp	1.3	17.1	35.3	46	-	-	-	-	-
Azimuth: 189		Height:109 Horz		Margin [dB]:	-10.7	-	-	-	-	-
Vertical 200 - 1000MHz										
437	78.85 pk	1.3	16.4	76.55*	-	80.9	-	-	-	-
Azimuth: 176		Height:100 Vert		Margin [dB]:	-4.35	-	-	-	-	-
435.3	17.1 qp	1.3	16.4	34.8	46	-	-	-	-	-
Azimuth: 0		Height:322 Vert		Margin [dB]:	-11.2	-	-	-	-	-
438.5	18.41 qp	1.3	16.5	36.21	46	-	-	-	-	-
Azimuth: 334		Height:188 Vert		Margin [dB]:	-9.79	-	-	-	-	-
434.5	22.16 qp	1.3	16.4	39.86	46	-	-	-	-	-
Azimuth: 327		Height:109 Vert		Margin [dB]:	-6.14	-	-	-	-	-
431.7	18.92 qp	1.3	16.3	36.52	46	-	-	-	-	-
Azimuth: 329		Height:110 Vert		Margin [dB]:	-9.48	-	-	-	-	-
430.11	18.06 qp	1.3	16.3	35.66	46	-	-	-	-	-
Azimuth: 6		Height:109 Vert		Margin [dB]:	-10.34	-	-	-	-	-
439.71	18.92 qp	1.3	16.5	36.72	46	-	-	-	-	-
Azimuth: 337		Height:109 Vert		Margin [dB]:	-9.28	-	-	-	-	-
442.12	19.4 qp	1.3	16.6	37.3	46	-	-	-	-	-
Azimuth: 326		Height:104 Vert		Margin [dB]:	-8.7	-	-	-	-	-
444.5	16.69 qp	1.3	16.7	34.69	46	-	-	-	-	-
Azimuth: 6		Height:104 Vert		Margin [dB]:	-11.31	-	-	-	-	-
449	16.48 qp	1.3	16.9	34.68	46	-	-	-	-	-
Azimuth: 2		Height:108 Vert		Margin [dB]:	-11.32	-	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal) qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Figure 36 Radiated Emissions Graph

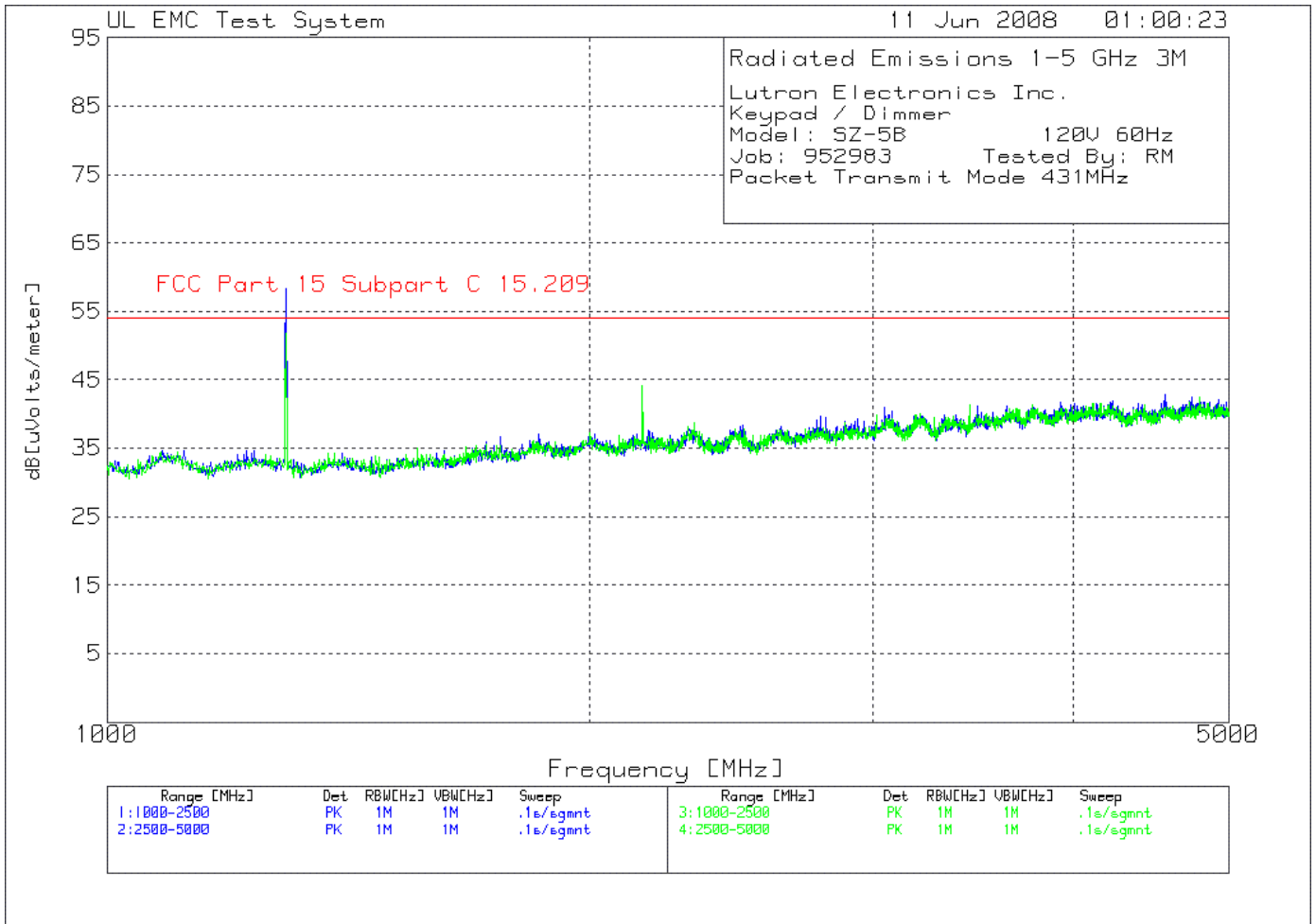


Table 27 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Packet Transmit Mode 431MHz

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 1000 - 2500MHz -----											
1	1292.793	65 pk	-31.7	25.1	58.4	54	-	-	-	-	-
	Azimuth:354	Height:200	Horz	Margin [dB]	4.4	-	-	-	-	-	-
2	2156.156	45.01 pk	-29.6	28.1	43.51	54	-	-	-	-	-
	Azimuth:248	Height:100	Horz	Margin [dB]	-10.49	-	-	-	-	-	-

Horizontal 2500 - 5000MHz -----											
3	3052.035	38.06 pk	-27.5	30.4	40.96	54	-	-	-	-	-
	Azimuth:26	Height:200	Horz	Margin [dB]	-13.04	-	-	-	-	-	-
4	4559.706	35.18 pk	-25	32.6	42.78	54	-	-	-	-	-
	Azimuth:331	Height:100	Horz	Margin [dB]	-11.22	-	-	-	-	-	-

Vertical 1000 - 2500MHz -----											
5	1292.793	58.39 pk	-31.7	25.1	51.79	54	-	-	-	-	-
	Azimuth:303	Height:199	Vert	Margin [dB]	-2.21	-	-	-	-	-	-
6	2156.156	45.66 pk	-29.6	28	44.06	54	-	-	-	-	-
	Azimuth:331	Height:100	Vert	Margin [dB]	-9.94	-	-	-	-	-	-

Vertical 2500 - 5000MHz -----											
7	3445.63	37.33 pk	-27	31.1	41.43	54	-	-	-	-	-
	Azimuth:196	Height:200	Vert	Margin [dB]	-12.57	-	-	-	-	-	-
8	4798.199	33.92 pk	-24.3	32.8	42.42	54	-	-	-	-	-
	Azimuth:220	Height:100	Vert	Margin [dB]	-11.58	-	-	-	-	-	-

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

Job Number: 952983 File Number: MC15896 Page 112 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics Inc.

Keypad / Dimmer

Model: SZ-5B 120V 60Hz

Job: 952983 Tested By: RM

Packet Transmit Mode 431MHz

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]	[dB]						
=====										
Horizontal 1000 - 2500MHz										
1293.0766	66.1 pk	-31.6	25.1	39.6*	54	-	-	-	-	-
Azimuth: 38 Height:103 Horz					Margin [dB]:	-14.4	-	-	-	-
2154.9736	53.11 pk	-29.5	28.1	31.71*	54	-	-	-	-	-
Azimuth: 345 Height:126 Horz					Margin [dB]:	-22.29	-	-	-	-
Vertical 1000 - 2500MHz										
1292.9734	62.35 pk	-31.6	25.1	35.85*	54	-	-	-	-	-
Azimuth: 188 Height:176 Vert					Margin [dB]:	-21.85	-	-	-	-
2155.0077	51.57 pk	-29.5	28	30.07*	54	-	-	-	-	-
Azimuth: 203 Height:107 Vert					Margin [dB]:	-23.93	-	-	-	-
Vertical 2500 - 5000MHz										
3445.7998	30.88 ave	-27	31.1	34.98	54	-	-	-	-	-
Azimuth: 202 Height:160 Vert					Margin [dB]:	-19.02	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental

LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)

qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

ave - Average detector

Figure 37 Radiated Emissions Graph

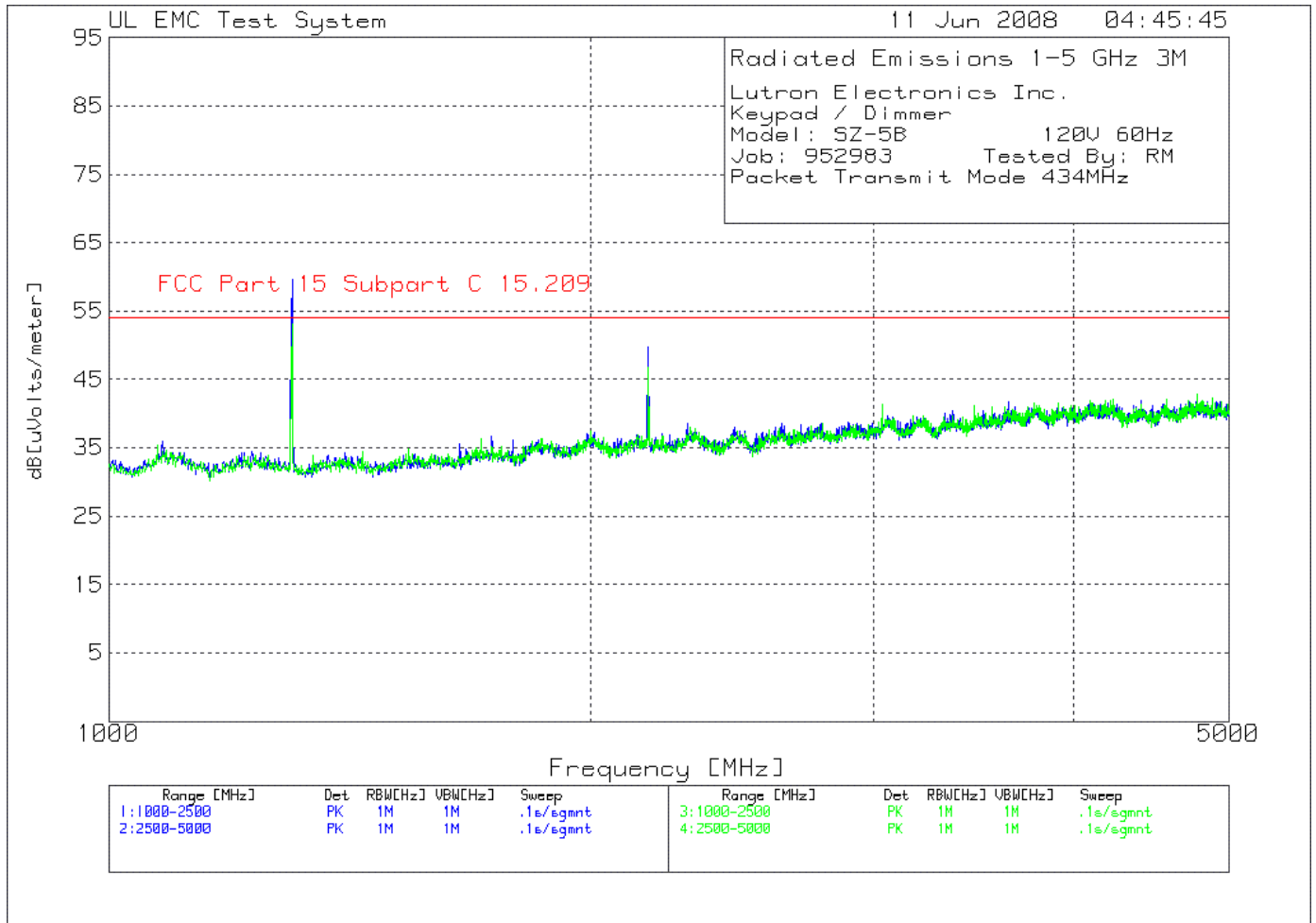


Table 28 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Packet Transmit Mode 434MHz

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 1000 - 2500MHz -----											
1	1301.802	66.1 pk	-31.6	25.1	59.6	54	-	-	-	-	-
	Azimuth:146	Height:100	Horz	Margin [dB]		5.6	-	-	-	-	-
2	2169.67	51.18 pk	-29.5	28.1	49.78	54	-	-	-	-	-
	Azimuth:341	Height:200	Horz	Margin [dB]		-4.22	-	-	-	-	-

Horizontal 2500 - 5000MHz -----											
3	3644.096	36.06 pk	-25.9	31.5	41.66	54	-	-	-	-	-
	Azimuth:331	Height:100	Horz	Margin [dB]		-12.34	-	-	-	-	-

Vertical 1000 - 2500MHz -----											
4	1301.802	59.54 pk	-31.6	25.1	53.04	54	-	-	-	-	-
	Azimuth:2	Height:200	Vert	Margin [dB]		-.96	-	-	-	-	-
5	2171.171	48.1 pk	-29.5	28.1	46.7	54	-	-	-	-	-
	Azimuth:251	Height:100	Vert	Margin [dB]		-7.3	-	-	-	-	-

Vertical 2500 - 5000MHz -----											
6	3037.025	38.52 pk	-27.5	30.3	41.32	54	-	-	-	-	-
	Azimuth:57	Height:100	Vert	Margin [dB]		-12.68	-	-	-	-	-

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

Job Number: 952983 File Number: MC15896 Page 115 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics Inc.

Keypad / Dimmer
 Model: SZ-5B 120V 60Hz
 Job: 952983 Tested By: RM
 Packet Transmit Mode 434MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 1000 - 2500MHz										
1302.0014	66.59 pk	-31.6	25.1	40.09*	54	-	-	-	-	-
Azimuth: 46		Height:102		Horz		Margin [dB]:		-13.91		
2170.0518	55.24 pk	-29.5	28.1	43.84*	54	-	-	-	-	-
Azimuth: 356		Height:123		Horz		Margin [dB]:		-10.16		
Vertical 1000 - 2500MHz										
1302.0074	63.5 pk	-31.6	25.1	47*	54	-	-	-	-	-
Azimuth: 187		Height:170		Vert		Margin [dB]:		-7		
2170.0568	53.44 pk	-29.5	28.1	52.04	54	-	-	-	-	-
Azimuth: 206		Height:112		Vert		Margin [dB]:		-1.96		
Vertical 2500 - 5000MHz										
3037.8056	46.7 pk	-27.5	30.3	49.5	54	-	-	-	-	-
Azimuth: 26		Height:138		Vert		Margin [dB]:		-4.5		

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Note: Since the maximized peak at 2170.0568 and 3037.8056, in the vertical polarity, were below the average limit, no correction factor was applied.

Figure 38 Radiated Emissions Graph

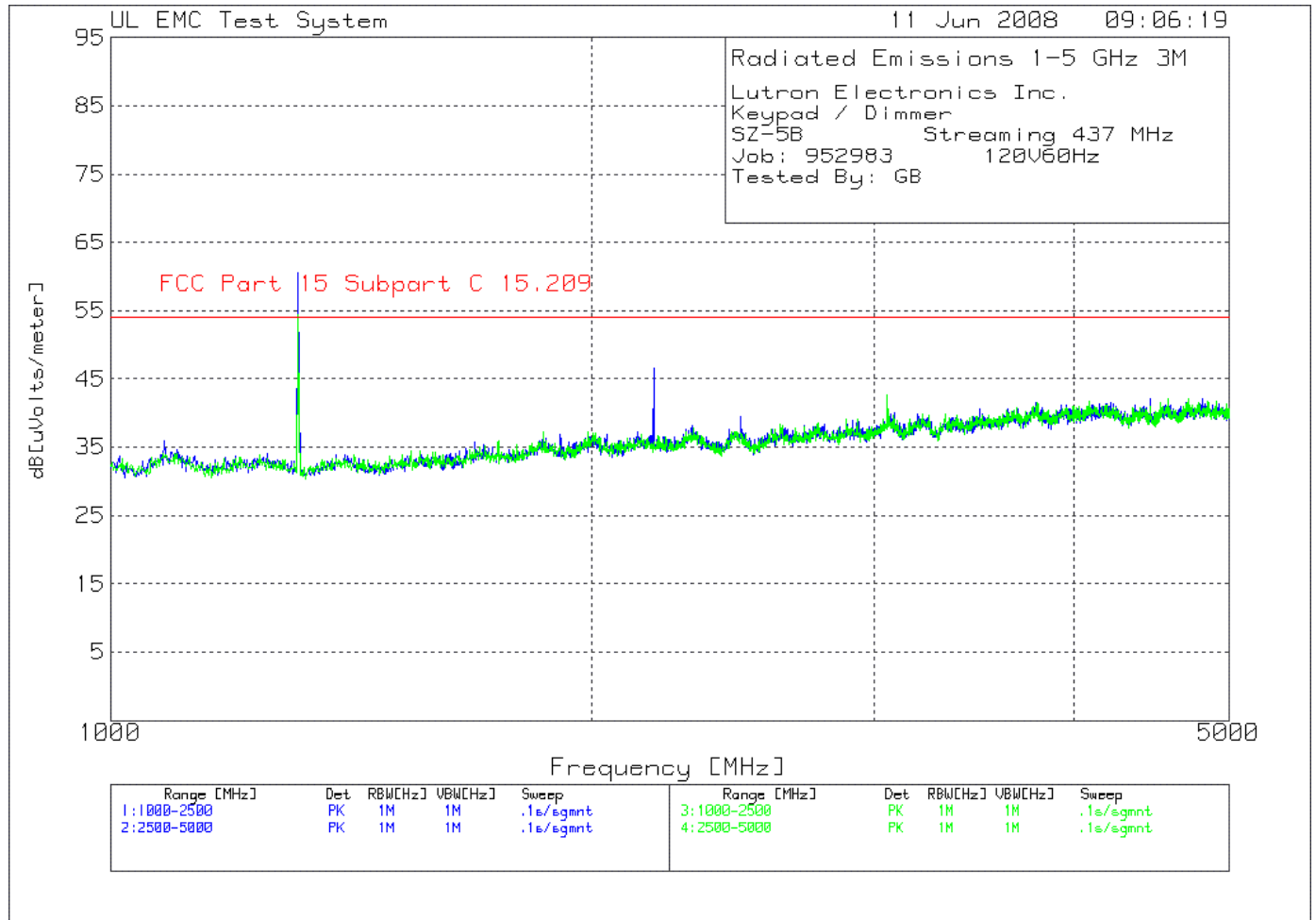


Table 29 Radiated Emissions Data Points

Lutron Electronics Inc.
 Keypad / Dimmer
 SZ-5B Streaming 437 MHz
 Job: 952983 120V60Hz
 Tested By: GB

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

Horizontal 1000 - 2500MHz -----											
1	1310.811	67.04 pk	-31.6	25.1	60.54	54	-	-	-	-	-
	Azimuth:82	Height:101	Horz	Margin [dB]	6.54	-	-	-	-	-	-
2	2184.685	47.74 pk	-29.4	28.2	46.54	54	-	-	-	-	-
	Azimuth:249	Height:200	Horz	Margin [dB]	-7.46	-	-	-	-	-	-
3	2475.976	39.88 pk	-29.1	28.8	39.58	54	-	-	-	-	-
	Azimuth:82	Height:101	Horz	Margin [dB]	-14.42	-	-	-	-	-	-

Vertical 1000 - 2500MHz -----											
4	1310.811	60.99 pk	-31.6	25.1	54.49	54	-	-	-	-	-
	Azimuth:165	Height:100	Vert	Margin [dB]	.49	-	-	-	-	-	-

Vertical 2500 - 5000MHz -----											
5	2883.589	37.68 pk	-28.3	29.8	39.18	54	-	-	-	-	-
	Azimuth:331	Height:100	Vert	Margin [dB]	-14.82	-	-	-	-	-	-
6	3058.706	39.89 pk	-27.5	30.3	42.69	54	-	-	-	-	-
	Azimuth:276	Height:200	Vert	Margin [dB]	-11.31	-	-	-	-	-	-

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

pk - Peak detector
 qp - Quasi-Peak detector

Job Number: 952983 File Number: MC15896 Page 118 of 121
 Model Number: SZ-5B
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

Lutron Electronics Inc.
 Keypad / Dimmer
 SZ-5B Streaming 437 MHz
 Job: 952983 120V60Hz
 Tested By: GB

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 1000 - 2500MHz										
1310.8	65.36 pk	-31.6	25.1	38.86*	54	-	-	-	-	-
Azimuth: 5	Height:196	Horz		Margin [dB]:	-15.14	-	-	-	-	-
Vertical 1000 - 2500MHz										
1310.8	64.48 pk	-31.6	25.1	37.98*	54	-	-	-	-	-
Azimuth: 98	Height:174	Vert		Margin [dB]:	-16.02	-	-	-	-	-

*Rounded Correction Factor applied.

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.231 Fundamental
 LIMIT 3: FCC Part 15 Subpart C 15.231 Spurious

pk - Peak detector (maximized peak signal)
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Note: Since all maximized peak signals were below the average limit, the average correction factor was not applied to the maximized peak values.

Job Number: 952983 File Number: MC15896 Page 119 of 121
Model Number: SZ-5B
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0055 Industry Canada ID: 2851A-JPZ0055

5.0 Fundamental Frequency and Spurious Emissions Measurement Limit Calculations

Limit Calculation

Limit in uV/m at 3 meters = $41.6667(F) - 7083.3333$

F is the fundamental frequency in MHz

Fundamental Frequency is 431MHz

Limit = $41.6667(431) - 7083.3333$

Limit = 10875.0144

Limit In dBuV/m = $20\log(\text{limit in uV})$

Limit in dBuV/m = $20\log(10875.0144)$

Limit in dBuV/m = 80.7

From table in section 15.231

Limit for Spurious Emissions = 20dB lower than fundamental

Fundamental Frequency is 431MHz

Limit = Fundamental Limit – 20dB

Limit = 80.7dBuV/m – 20dB

Limit = 60.7dBuV/m

Radiated Emissions Limit conversion from $\mu\text{V/m}$ to $\text{dB}\mu\text{V/m}$ (accordance with paragraph 15.109)

Radiated Emissions Limit ($\text{dB}\mu\text{V/m}$) = $20 * \log(\mu\text{V/m})$

Radiated Emissions Limit ($\text{dB}\mu\text{V/m}$) = $20 * \log(90)$

Radiated Emissions Limit ($\text{dB}\mu\text{V/m}$) = 39.1

Radiated Emissions test data obtained during measurements.

Field Strength ($\text{dB}\mu\text{V/m}$) = Measured field strength ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) + Cable Factor (dB)

Field Strength ($\text{dB}\mu\text{V/m}$) = $16.13\text{dB}\mu\text{V} + 16.4\text{dB/m} + 1.3\text{dB}$

Field Strength ($\text{dB}\mu\text{V/m}$) = 33.84

Duty Cycle Correction Factor Calculation

Duty Cycle Correction factor = $20\log(\text{Total on time}) / (\text{Total Transmission Time})$

Duty Cycle Correction factor = $20\log(4.81\text{mS}) / (75.15\text{mS})$

Duty Cycle Correction factor = -23.88 (used -20 for correction as max value allowed).

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Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100255-0

NVLAP: Recognized under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC EN17025 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. 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-833, C-834 and (Conducted Emissions - Telecommunications Ports) T-160.

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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