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Job Number:	1001150981
Project Number:	09ME07791
File Number:	MC15211
Date:	6 Jan 2010
Model:	VRC0P, VRP03, VRP15, & VRR15
FCC ID:	QGH-VRSDC
Industry Canada ID:	2473A-VRSDC

Electromagnetic Compatibility Test Report

For

Leviton Mfg. Co. Inc.

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Job Number: 1001150981 File Number: MC15211 Page 2 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Test Report Details

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

Tests Performed For: **Leviton Mfg. Co. Inc.
201 North Service Road
Melville, NY 11747**

Applicant Contact: **Parimal Patel**
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Test Report Date: **06 Jan. 2010**

Product Type: **Dimmers**

Product standards **FCC Part 15, Subpart C, 15.249, RSS-210, RSS-GEN,
Permissive II change**

Model Number: **VRR15, VRP03, VRP15, & VRC0P**

EUT Category: **Periodic Low Power Transmitter**

Testing Start Date: **30 Sept. 2009**

Date Testing Complete: **06 Jan. 2010**

Overall Results: Compliant Non-Compliant

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

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

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 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Report Revision History

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

1 GENERAL - Product Description

1.1 Equipment Description

Electronic Low Voltage Scene Capable Dimmer for single pole, 3-way or more applications, with LED locator and brightness display. White face assembled on device, ivory and almond faces included.

The VRC0P is an RF plug-in serial interface module, Vizia RF plus RS232 system interface Z-wave enabled 120Vac, 60Hz. COF white. PKD. 1/see pack box. 10/carton.

The VRP03 is Vizia RF plus RF plug-in dimmer module: 300watt capacity, Z-wave enabled COF white. PKD. 1/see pack box. 10/carton.

The VRP15 is Vizia RF plus RF plug-in appliance module: 15 amp capacity, Z-wave enabled local ON/OFF control. COF white. PKD. 1/see pack box. 10/carton.

The VRR15 is Vizia RF + split duplex receptacle top outlet switch 15A-120Vac single pole 60Hz:Z-wave enabled COF white face assembled (2) mounting screws mounted to strap by retaining washer.

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

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

The transmitter circuitry is regulated and therefore frequency stability with varied input voltages was not required.

1.2 Equipment Marking Plate

Not provided at time of test

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1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Dimmer	Leviton Mfg. Co. Inc.	VRC0P	None
EUT	Dimmer	Leviton Mfg. Co. Inc.	VRP03	None
EUT	Dimmer	Leviton Mfg. Co. Inc.	VRP15	None
EUT	Dimmer	Leviton Mfg. Co. Inc.	VRR15	None
AE	Load	Leviton	-	Incandescent Light bulb
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	NO	NO	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:

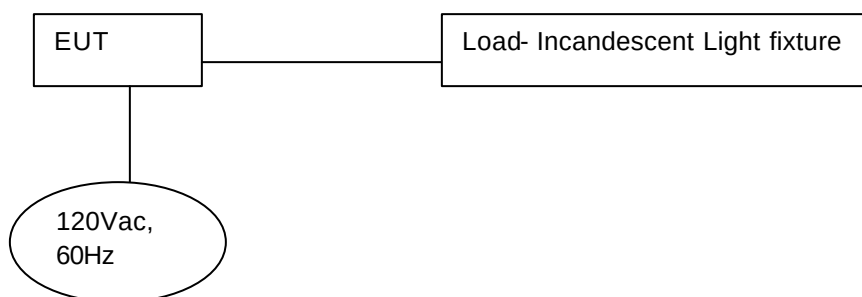
Frequency (MHz)	Description
908.42	Fundamental All models
0.032768	Oscillator model VRC0P
12	Oscillator VRC0P
32	Crystal All models

1.3.4 Power Interface:

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

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



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1.5 EUT Configurations

Mode #	Description
1	The EUT (equipment under test) was set to transmit at its maximum allowable power rating at the fundamental frequency of 908.42MHz. The dimmer was mounted in a typically outlet box while terminated with a Incandescent Light bulb

1.6 EUT Operation Modes

Mode #	Description
1	Transmitter Continuous CW
2	Standby (receive)

2 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

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2.3 Reference Standards

Standard Number	Standard Name	Standard Date
CFR 47	FCC Part 15, Subpart C, 15.31, 15.35, 15.207 & 15.209, & 15.249	2009
CFR 47	FCC Part 15, Subpart B, Class B Radio Frequency Devices	2009
ICES-003, Issue 4	Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard: Digital Apparatus	2004
RSS- 210, Issue 7	Low-power License-exempt Radio communications Devices (All Frequency Bands): Category I Equipment sets out certification requirements for low-power license- exempt radio communication devices that are Category I equipment.	2007
RSS-GEN, Issue 2	General Requirements and Information for the Certification of Radio communication equipment.	2007

2.4 Results Summary

This product is considered Class B

Requirement – Test	Result (Compliant)*
Fundamental Radiated Emissions	Compliant
Spurious Radiated Emissions	Compliant
General Radiated Emissions	Compliant
Conducted Emissions - Mains	Compliant
Occupied Bandwidth	Compliant

Test Engineer:



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

Reviewer:



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

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

3 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 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

FCC Part 15, Subpart C, 15.207, 15.209, 15.215 & 15.249.	Code of Federal Regulations, Part 15, and Subpart C, Radio Frequency Devices: 2009.
FCC Part 15, Subpart B, 15.107 & 15.109	Code of Federal Regulations, Part 15, and Subpart B, Radio Frequency Devices: 2009.

----- Industry Canada -----

Radio Standards Specification 210, Issue 7	Low-power License-exempt Radio communications Devices (All Frequency Bands): Category I Equipment sets out certification requirements for low-power license- exempt radio communication devices that are Category I equipment. 2007
RSS-GEN, Issue 2	General Requirements and Information for the Certification of Radio communication Equipment.
ICES-003, Issue 4	Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard: Digital Apparatus. 2004

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 C, 15.207	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits - Class B		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

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 Client Name: Leviton Mfg. Co. Inc.
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Table 1 Conducted Emissions EUT Configuration Settings

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

Table 2 Conducted Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Conducted Emissions – GP 1			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
LISN	EMCO	3825/2R	ME5-790
Switch Driver	HP	11713A	44397
RF Switch Box	UL	4	44404
Measurement Software	UL	Version 9.3	44736
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734
Multimeter	Fluke	83III	ME5B-306

Figure 1 Test Setup for Conducted Emissions



VRC0P

Figure 2 Test Setup for Conducted Emissions



VRP03

Figure 3: Test Setup for Conducted Emissions



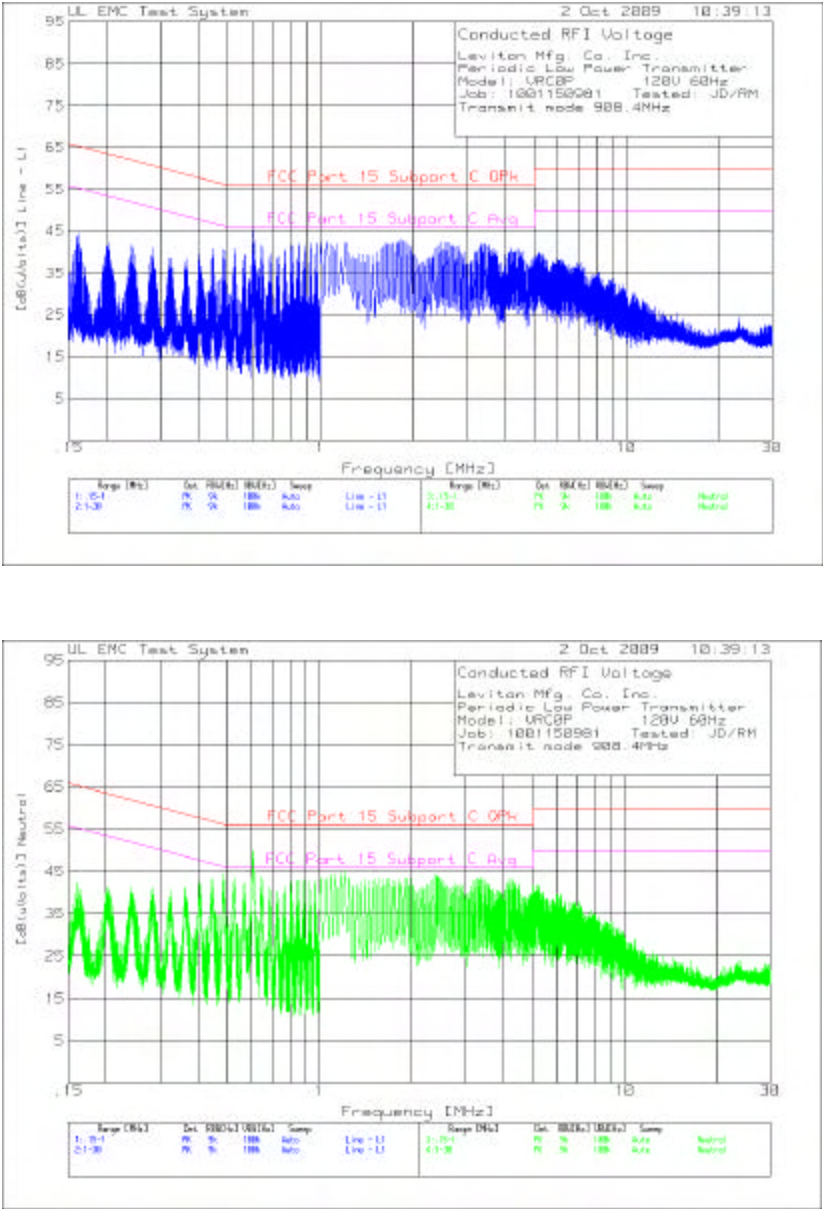
VRP15

Figure 4: Test Setup for Conducted Emissions



VRR15

Figure 5 Conducted Emissions Graph VRC0P



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 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 3 Conducted Emissions Data Points

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRC0P 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1	.15	- 1MHz									
1	.16241	32.33 pk	12	0	44.33	65.3	55.3	-	-	-	-
				Margin [dB]		-20.97	-10.97	-	-	-	-
2	.20492	29.05 pk	11.4	0	40.45	63.4	53.4	-	-	-	-
				Margin [dB]		-22.95	-12.95	-	-	-	-
3	.24097	30.44 pk	11.2	0	41.64	62.1	52.1	-	-	-	-
				Margin [dB]		-20.46	-10.46	-	-	-	-
4	.28229	30 pk	11	0	41	60.7	50.7	-	-	-	-
				Margin [dB]		-19.7	-9.7	-	-	-	-
5	.32207	28.01 pk	10.8	0	38.81	59.7	49.7	-	-	-	-
				Margin [dB]		-20.89	-10.89	-	-	-	-
6	.36441	27.7 pk	10.7	0	38.4	58.6	48.6	-	-	-	-
				Margin [dB]		-20.2	-10.2	-	-	-	-
7	.40335	28.84 pk	10.7	0	39.54	57.8	47.8	-	-	-	-
				Margin [dB]		-18.26	-8.26	-	-	-	-
8	.44365	30.19 pk	10.6	0	40.79	57	47	-	-	-	-
				Margin [dB]		-16.21	-6.21	-	-	-	-
9	.48378	30.1 pk	10.6	0	40.7	56.3	46.3	-	-	-	-
				Margin [dB]		-15.6	-5.6	-	-	-	-
10	.52493	30.28 pk	10.5	0	40.78	56	46	-	-	-	-
				Margin [dB]		-15.22	-5.22	-	-	-	-
11	.56607	29.11 pk	10.5	0	39.61	56	46	-	-	-	-
				Margin [dB]		-16.39	-6.39	-	-	-	-
12	.60671	34.83 pk	10.5	0	45.33	56	46	-	-	-	-
				Margin [dB]		-10.67	- .67	-	-	-	-
13	.64548	30.47 pk	10.5	0	40.97	56	46	-	-	-	-
				Margin [dB]		-15.03	-5.03	-	-	-	-
14	.68595	29.19 pk	10.5	0	39.69	56	46	-	-	-	-
				Margin [dB]		-16.31	-6.31	-	-	-	-
15	.7271	28.59 pk	10.5	0	39.09	56	46	-	-	-	-
				Margin [dB]		-16.91	-6.91	-	-	-	-
16	.76705	29.62 pk	10.5	0	40.12	56	46	-	-	-	-
				Margin [dB]		-15.88	-5.88	-	-	-	-
17	.80582	31.08 pk	10.4	0	41.48	56	46	-	-	-	-
				Margin [dB]		-14.52	-4.52	-	-	-	-
18	.84799	31.67 pk	10.4	0	42.07	56	46	-	-	-	-
				Margin [dB]		-13.93	-3.93	-	-	-	-
19	.88676	31.03 pk	10.4	0	41.43	56	46	-	-	-	-
				Margin [dB]		-14.57	-4.57	-	-	-	-

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: 1001150981 File Number: MC15211 Page 16 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRC0P 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

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 -----											
20	.92927	31.69 pk	10.4	0	42.09	56	46	-	-	-	-
				Margin [dB]		-13.91	-3.91	-	-	-	-
21	.97041	28.97 pk	10.4	0	39.37	56	46	-	-	-	-
				Margin [dB]		-16.63	-6.63	-	-	-	-
Line - L1 1 - 30MHz -----											
22	1.21464	31.92 pk	10.4	0	42.32	56	46	-	-	-	-
				Margin [dB]		-13.68	-3.68	-	-	-	-
23	1.85277	32.67 pk	10.3	0	42.97	56	46	-	-	-	-
				Margin [dB]		-13.03	-3.03	-	-	-	-
24	2.5025	32.21 pk	10.3	0	42.51	56	46	-	-	-	-
				Margin [dB]		-13.49	-3.49	-	-	-	-
25	3.47129	31.55 pk	10.4	0	41.95	56	46	-	-	-	-
				Margin [dB]		-14.05	-4.05	-	-	-	-
26	4.39948	30.25 pk	10.4	0	40.65	56	46	-	-	-	-
				Margin [dB]		-15.35	-5.35	-	-	-	-
27	5.16523	29.53 pk	10.4	0	39.93	60	50	-	-	-	-
				Margin [dB]		-20.07	-10.07	-	-	-	-
Neutral .15 - 1MHz -----											
28	.4042	32.04 pk	10.7	0	42.74	57.8	47.8	-	-	-	-
				Margin [dB]		-15.06	-5.06	-	-	-	-
29	.44467	32.71 pk	10.6	0	43.31	57	47	-	-	-	-
				Margin [dB]		-13.69	-3.69	-	-	-	-
30	.48582	33.9 pk	10.6	0	44.5	56.2	46.2	-	-	-	-
				Margin [dB]		-11.7	-1.7	-	-	-	-
31	.52561	32.8 pk	10.6	0	43.4	56	46	-	-	-	-
				Margin [dB]		-12.6	-2.6	-	-	-	-
32	.56811	31.93 pk	10.5	0	42.43	56	46	-	-	-	-
				Margin [dB]		-13.57	-3.57	-	-	-	-
33	.60637	39.3 pk	10.5	0	49.8	56	46	-	-	-	-
				Margin [dB]		-6.2	3.8	-	-	-	-
34	.64514	33.39 pk	10.5	0	43.89	56	46	-	-	-	-
				Margin [dB]		-12.11	-2.11	-	-	-	-
35	.68663	30.74 pk	10.5	0	41.24	56	46	-	-	-	-
				Margin [dB]		-14.76	-4.76	-	-	-	-

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

pk - Peak detector
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No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Neutral .15 - 1MHz -----											
36	.72778	29.92 pk	10.5	0	40.42	56	46	-	-	-	-
				Margin [dB]		-15.58	-5.58	-	-	-	-
37	.76943	30.85 pk	10.5	0	41.35	56	46	-	-	-	-
				Margin [dB]		-14.65	-4.65	-	-	-	-
38	.80837	32.26 pk	10.5	0	42.76	56	46	-	-	-	-
				Margin [dB]		-13.24	-3.24	-	-	-	-
39	.85037	32.37 pk	10.5	0	42.87	56	46	-	-	-	-
				Margin [dB]		-13.13	-3.13	-	-	-	-
40	.8905	32.59 pk	10.5	0	43.09	56	46	-	-	-	-
				Margin [dB]		-12.91	-2.91	-	-	-	-
41	.92859	32.25 pk	10.5	0	42.75	56	46	-	-	-	-
				Margin [dB]		-13.25	-3.25	-	-	-	-
42	.97228	31.49 pk	10.4	0	41.89	56	46	-	-	-	-
				Margin [dB]		-14.11	-4.11	-	-	-	-

Neutral 1 - 30MHz -----											
43	1.20884	34.73 pk	10.4	0	45.13	56	46	-	-	-	-
				Margin [dB]		-10.87	- .87	-	-	-	-
44	1.89918	33.07 pk	10.4	0	43.47	56	46	-	-	-	-
				Margin [dB]		-12.53	-2.53	-	-	-	-
45	2.38068	33.89 pk	10.4	0	44.29	56	46	-	-	-	-
				Margin [dB]		-11.71	-1.71	-	-	-	-
46	3.35527	33.31 pk	10.4	0	43.71	56	46	-	-	-	-
				Margin [dB]		-12.29	-2.29	-	-	-	-
47	4.20224	32.86 pk	10.4	0	43.26	56	46	-	-	-	-
				Margin [dB]		-12.74	-2.74	-	-	-	-
48	1.57432	32.98 pk	10.4	0	43.38	56	46	-	-	-	-
				Margin [dB]		-12.62	-2.62	-	-	-	-

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
 cav - CISPR average detection

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Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRC0P 120V 60Hz
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 Transmit mode 908.4MHz

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										
.16189	13.18 ave	12	0	25.18	65.4	55.4	-	-	-	-
			Margin [dB]:		-40.22	-30.22	-	-	-	-
.20346	13.52 ave	11.5	0	25.02	63.5	53.5	-	-	-	-
			Margin [dB]:		-38.48	-28.48	-	-	-	-
.24252	14.26 ave	11.2	0	25.46	62	52	-	-	-	-
			Margin [dB]:		-36.54	-26.54	-	-	-	-
.28343	14.02 ave	11	0	25.02	60.7	50.7	-	-	-	-
			Margin [dB]:		-35.68	-25.68	-	-	-	-
.32374	13.93 ave	10.8	0	24.73	59.6	49.6	-	-	-	-
			Margin [dB]:		-34.87	-24.87	-	-	-	-
.36505	14.4 ave	10.7	0	25.1	58.6	48.6	-	-	-	-
			Margin [dB]:		-33.5	-23.5	-	-	-	-
.4049	15.44 ave	10.7	0	26.14	57.8	47.8	-	-	-	-
			Margin [dB]:		-31.66	-21.66	-	-	-	-
.44525	16.21 ave	10.6	0	26.81	57	47	-	-	-	-
			Margin [dB]:		-30.19	-20.19	-	-	-	-
.48535	16.1 ave	10.6	0	26.7	56.2	46.2	-	-	-	-
			Margin [dB]:		-29.5	-19.5	-	-	-	-
.52648	16 ave	10.5	0	26.5	56	46	-	-	-	-
			Margin [dB]:		-29.5	-19.5	-	-	-	-
.56612	14.53 ave	10.5	0	25.03	56	46	-	-	-	-
			Margin [dB]:		-30.97	-20.97	-	-	-	-
.60769	20.16 ave	10.5	0	30.66	56	46	-	-	-	-
			Margin [dB]:		-25.34	-15.34	-	-	-	-
.64714	15.27 ave	10.5	0	25.77	56	46	-	-	-	-
			Margin [dB]:		-30.23	-20.23	-	-	-	-
.68761	13.33 ave	10.5	0	23.83	56	46	-	-	-	-
			Margin [dB]:		-32.17	-22.17	-	-	-	-
.72863	12.46 ave	10.5	0	22.96	56	46	-	-	-	-
			Margin [dB]:		-33.04	-23.04	-	-	-	-
.76874	10 ave	10.5	0	20.5	56	46	-	-	-	-
			Margin [dB]:		-35.5	-25.5	-	-	-	-
.80744	7.15 ave	10.4	0	17.55	56	46	-	-	-	-
			Margin [dB]:		-38.45	-28.45	-	-	-	-
.84962	8.81 ave	10.4	0	19.21	56	46	-	-	-	-
			Margin [dB]:		-36.79	-26.79	-	-	-	-
.88833	8.88 ave	10.4	0	19.28	56	46	-	-	-	-
			Margin [dB]:		-36.72	-26.72	-	-	-	-
.93054	10.37 ave	10.4	0	20.77	56	46	-	-	-	-
			Margin [dB]:		-35.23	-25.23	-	-	-	-
.97199	10.99 ave	10.4	0	21.39	56	46	-	-	-	-
			Margin [dB]:		-34.61	-24.61	-	-	-	-

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: 1001150981 File Number: MC15211 Page 19 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRC0P 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

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										
1.21688	15.47 ave	10.4	0	25.87	56	46	-	-	-	-
			Margin [dB]:		-30.13	-20.13	-	-	-	-
1.8456	3.5 ave	10.3	0	13.8	56	46	-	-	-	-
			Margin [dB]:		-42.2	-32.2	-	-	-	-
2.47484	14.14 ave	10.3	0	24.44	56	46	-	-	-	-
			Margin [dB]:		-31.56	-21.56	-	-	-	-
3.46884	-2.76 ave	10.4	0	7.64	56	46	-	-	-	-
			Margin [dB]:		-48.36	-38.36	-	-	-	-
4.39616	4.25 ave	10.4	0	14.65	56	46	-	-	-	-
			Margin [dB]:		-41.35	-31.35	-	-	-	-
5.1739	-.3 ave	10.4	0	10.1	60	50	-	-	-	-
			Margin [dB]:		-49.9	-39.9	-	-	-	-
Neutral .15 - 1MHz										
.4057	26.57 ave	10.7	0	37.27	57.7	47.7	-	-	-	-
			Margin [dB]:		-20.43	-10.43	-	-	-	-
.44618	27.89 ave	10.6	0	38.49	56.9	46.9	-	-	-	-
			Margin [dB]:		-18.41	-8.41	-	-	-	-
.48716	28.37 ave	10.6	0	38.97	56.2	46.2	-	-	-	-
			Margin [dB]:		-17.23	-7.23	-	-	-	-
.52683	26.86 ave	10.6	0	37.46	56	46	-	-	-	-
			Margin [dB]:		-18.54	-8.54	-	-	-	-
.56724	27.34 ave	10.5	0	37.84	56	46	-	-	-	-
			Margin [dB]:		-18.16	-8.16	-	-	-	-
.60786	32.42 ave	10.5	0	42.92	56	46	-	-	-	-
			Margin [dB]:		-13.08	-3.08	-	-	-	-
.64674	25.73 ave	10.5	0	36.23	56	46	-	-	-	-
			Margin [dB]:		-19.77	-9.77	-	-	-	-
.68829	23.38 ave	10.5	0	33.88	56	46	-	-	-	-
			Margin [dB]:		-22.12	-12.12	-	-	-	-
.72936	21.83 ave	10.5	0	32.33	56	46	-	-	-	-
			Margin [dB]:		-23.67	-13.67	-	-	-	-
.77091	20.66 ave	10.5	0	31.16	56	46	-	-	-	-
			Margin [dB]:		-24.84	-14.84	-	-	-	-
.81006	18 ave	10.5	0	28.5	56	46	-	-	-	-
			Margin [dB]:		-27.5	-17.5	-	-	-	-
.85193	17.05 ave	10.5	0	27.55	56	46	-	-	-	-
			Margin [dB]:		-28.45	-18.45	-	-	-	-
.89192	16.16 ave	10.5	0	26.66	56	46	-	-	-	-
			Margin [dB]:		-29.34	-19.34	-	-	-	-
.93016	15.35 ave	10.5	0	25.85	56	46	-	-	-	-
			Margin [dB]:		-30.15	-20.15	-	-	-	-
.97355	18.14 ave	10.4	0	28.54	56	46	-	-	-	-
			Margin [dB]:		-27.46	-17.46	-	-	-	-

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: 1001150981 File Number: MC15211 Page 20 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRC0P 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

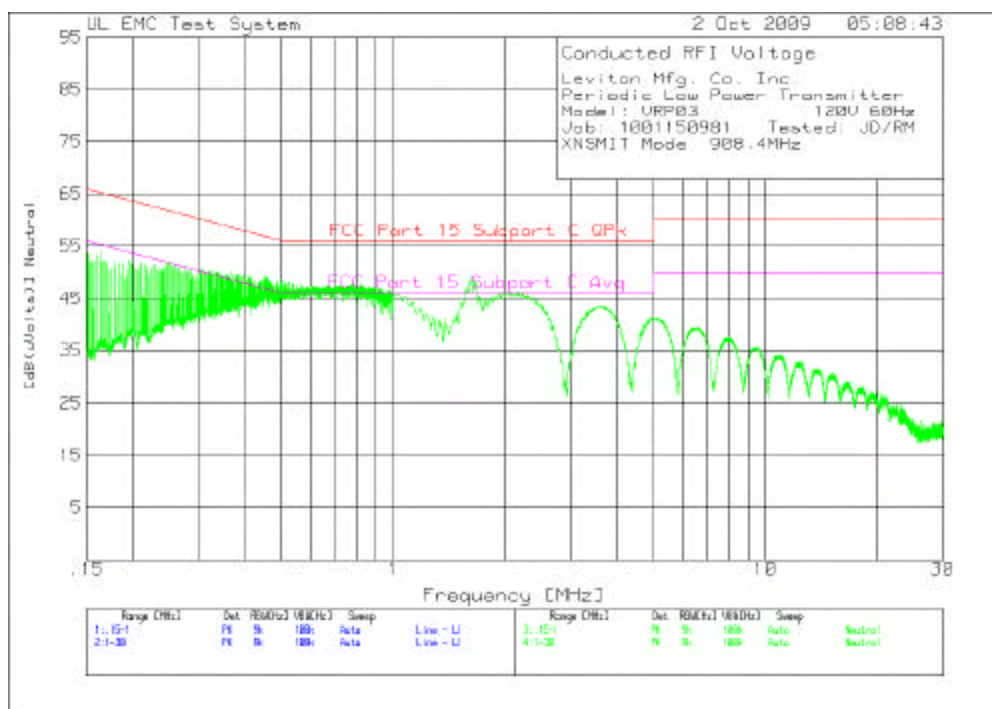
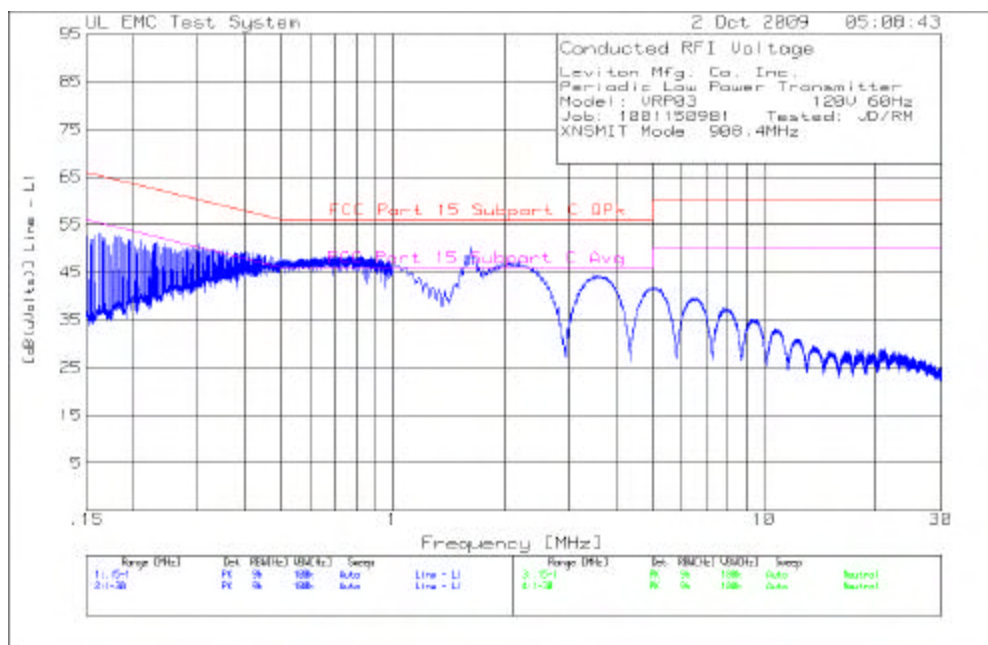
Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Neutral 1 - 30MHz										
1.21845	25.3 ave	10.4	0	35.7	56	46	-	-	-	-
			Margin [dB]:		-20.3	-10.3	-	-	-	-
1.902	13.49 ave	10.4	0	23.89	56	46	-	-	-	-
			Margin [dB]:		-32.11	-22.11	-	-	-	-
2.36758	5.15 ave	10.4	0	15.55	56	46	-	-	-	-
			Margin [dB]:		-40.45	-30.45	-	-	-	-
3.34259	6.13 ave	10.4	0	16.53	56	46	-	-	-	-
			Margin [dB]:		-39.47	-29.47	-	-	-	-
4.22121	17.47 ave	10.4	0	27.87	56	46	-	-	-	-
			Margin [dB]:		-28.13	-18.13	-	-	-	-
1.57704	15.38 ave	10.4	0	25.78	56	46	-	-	-	-
			Margin [dB]:		-30.22	-20.22	-	-	-	-

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 VRP03



Job Number: 1001150981 File Number: MC15211 Page 22 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 4: Conducted Emissions Data Points

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz -----											
1	.15697	44.77 pk	12.1	0	56.87	65.6	55.6	-	-	-	-
				Margin [dB]		-8.73	1.27	-	-	-	-
2	.17653	44.21 pk	11.8	0	56.01	64.6	54.6	-	-	-	-
				Margin [dB]		-8.59	1.41	-	-	-	-
3	.19829	44.87 pk	11.5	0	56.37	63.7	53.7	-	-	-	-
				Margin [dB]		-7.33	2.67	-	-	-	-
4	.21767	42.79 pk	11.3	0	54.09	62.9	52.9	-	-	-	-
				Margin [dB]		-8.81	1.19	-	-	-	-
5	.23536	41.9 pk	11.2	0	53.1	62.3	52.3	-	-	-	-
				Margin [dB]		-9.2	.8	-	-	-	-
6	.25967	42.27 pk	11.1	0	53.37	61.4	51.4	-	-	-	-
				Margin [dB]		-8.03	1.97	-	-	-	-
7	.29113	42.18 pk	10.9	0	53.08	60.5	50.5	-	-	-	-
				Margin [dB]		-7.42	2.58	-	-	-	-
8	.30813	41.2 pk	10.9	0	52.1	60	50	-	-	-	-
				Margin [dB]		-7.9	2.1	-	-	-	-
9	.35115	41.53 pk	10.8	0	52.33	58.9	48.9	-	-	-	-
				Margin [dB]		-6.57	3.43	-	-	-	-
10	.3974	40.93 pk	10.7	0	51.63	57.9	47.9	-	-	-	-
				Margin [dB]		-6.27	3.73	-	-	-	-
11	.77641	40.19 pk	10.5	0	50.69	56	46	-	-	-	-
				Margin [dB]		-5.31	4.69	-	-	-	-
12	.99473	38.24 pk	10.4	0	48.64	56	46	-	-	-	-
				Margin [dB]		-7.36	2.64	-	-	-	-
17	.59447	39.45 pk	10.5	0	49.95	56	46	-	-	-	-
				Margin [dB]		-6.05	3.95	-	-	-	-
18	.45606	39.89 pk	10.6	0	50.49	56.8	46.8	-	-	-	-
				Margin [dB]		-6.31	3.69	-	-	-	-
19	.45113	41.21 pk	10.6	0	51.81	56.9	46.9	-	-	-	-
				Margin [dB]		-5.09	4.91	-	-	-	-
Line - L1 1 - 30MHz -----											
13	1.66713	40.26 pk	10.3	0	50.56	56	46	-	-	-	-
				Margin [dB]		-5.44	4.56	-	-	-	-
14	2.20084	39.01 pk	10.3	0	49.31	56	46	-	-	-	-
				Margin [dB]		-6.69	3.31	-	-	-	-
15	3.61632	36.64 pk	10.4	0	47.04	56	46	-	-	-	-
				Margin [dB]		-8.96	1.04	-	-	-	-
16	5.18844	34.38 pk	10.4	0	44.78	60	50	-	-	-	-
				Margin [dB]		-15.22	-5.22	-	-	-	-

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: 1001150981 File Number: MC15211 Page 23 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Neutral .15 - 1MHz -----											
20	.15017	44.6 pk	12.2	0	56.8	66	56	-	-	-	-
				Margin [dB]		-9.2	.8	-	-	-	-
21	.17687	43.91 pk	11.8	0	55.71	64.6	54.6	-	-	-	-
				Margin [dB]		-8.89	1.11	-	-	-	-
22	.19642	43.29 pk	11.5	0	54.79	63.8	53.8	-	-	-	-
				Margin [dB]		-9.01	.99	-	-	-	-
23	.22295	42.94 pk	11.3	0	54.24	62.7	52.7	-	-	-	-
				Margin [dB]		-8.46	1.54	-	-	-	-
24	.24607	43.23 pk	11.1	0	54.33	61.9	51.9	-	-	-	-
				Margin [dB]		-7.57	2.43	-	-	-	-
25	.268	42.37 pk	11	0	53.37	61.2	51.2	-	-	-	-
				Margin [dB]		-7.83	2.17	-	-	-	-
26	.29232	42.57 pk	10.9	0	53.47	60.5	50.5	-	-	-	-
				Margin [dB]		-7.03	2.97	-	-	-	-
27	.30422	42.08 pk	10.9	0	52.98	60.1	50.1	-	-	-	-
				Margin [dB]		-7.12	2.88	-	-	-	-
28	.33704	41.89 pk	10.8	0	52.69	59.3	49.3	-	-	-	-
				Margin [dB]		-6.61	3.39	-	-	-	-
29	.35149	41.52 pk	10.8	0	52.32	58.9	48.9	-	-	-	-
				Margin [dB]		-6.58	3.42	-	-	-	-
30	.37087	41.12 pk	10.7	0	51.82	58.5	48.5	-	-	-	-
				Margin [dB]		-6.68	3.32	-	-	-	-
31	.4025	41.13 pk	10.7	0	51.83	57.8	47.8	-	-	-	-
				Margin [dB]		-5.97	4.03	-	-	-	-
32	.4632	40.56 pk	10.6	0	51.16	56.6	46.6	-	-	-	-
				Margin [dB]		-5.44	4.56	-	-	-	-
33	.66078	39.05 pk	10.5	0	49.55	56	46	-	-	-	-
				Margin [dB]		-6.45	3.55	-	-	-	-
34	.86856	38.91 pk	10.5	0	49.41	56	46	-	-	-	-
				Margin [dB]		-6.59	3.41	-	-	-	-
Neutral 1 - 30MHz -----											
35	1.60332	38.69 pk	10.4	0	49.09	56	46	-	-	-	-
				Margin [dB]		-6.91	3.09	-	-	-	-
36	2.12543	37.97 pk	10.4	0	48.37	56	46	-	-	-	-
				Margin [dB]		-7.63	2.37	-	-	-	-
37	3.58152	35.72 pk	10.4	0	46.12	56	46	-	-	-	-
				Margin [dB]		-9.88	.12	-	-	-	-
38	5.03761	33.61 pk	10.5	0	44.11	60	50	-	-	-	-
				Margin [dB]		-15.89	-5.89	-	-	-	-

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: 1001150981 File Number: MC15211 Page 24 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

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										
.15562	41.45 qp	12.1	0	53.55	65.7	55.7	-	-	-	-
			Margin [dB]:		-12.15	-2.15	-	-	-	-
.17592	40.71 qp	11.8	0	52.51	64.7	54.7	-	-	-	-
			Margin [dB]:		-12.19	-2.19	-	-	-	-
.19807	40.28 qp	11.5	0	51.78	63.7	53.7	-	-	-	-
			Margin [dB]:		-11.92	-1.92	-	-	-	-
.21918	39.56 qp	11.3	0	50.86	62.9	52.9	-	-	-	-
			Margin [dB]:		-12.04	-2.04	-	-	-	-
.23697	38.53 qp	11.2	0	49.73	62.2	52.2	-	-	-	-
			Margin [dB]:		-12.47	-2.47	-	-	-	-
.26126	39.02 qp	11	0	50.02	61.4	51.4	-	-	-	-
			Margin [dB]:		-11.38	-1.38	-	-	-	-
.28957	38.55 qp	10.9	0	49.45	60.5	50.5	-	-	-	-
			Margin [dB]:		-11.05	-1.05	-	-	-	-
.30862	38.09 qp	10.9	0	48.99	60	50	-	-	-	-
			Margin [dB]:		-11.01	-1.01	-	-	-	-
.35246	37.73 qp	10.8	0	48.53	58.9	48.9	-	-	-	-
			Margin [dB]:		-10.37	-.37	-	-	-	-
.39815	37.78 qp	10.7	0	48.48	57.9	47.9	-	-	-	-
			Margin [dB]:		-9.42	.58	-	-	-	-
.7779	39.59 qp	10.5	0	50.09	56	46	-	-	-	-
			Margin [dB]:		-5.91	4.09	-	-	-	-
.99412	38.04 qp	10.4	0	48.44	56	46	-	-	-	-
			Margin [dB]:		-7.56	2.44	-	-	-	-
.59307	39.37 qp	10.5	0	49.87	56	46	-	-	-	-
			Margin [dB]:		-6.13	3.87	-	-	-	-
.45454	38.11 qp	10.6	0	48.71	56.8	46.8	-	-	-	-
			Margin [dB]:		-8.09	1.91	-	-	-	-
.45206	37.99 qp	10.6	0	48.59	56.8	46.8	-	-	-	-
			Margin [dB]:		-8.21	1.79	-	-	-	-
Line - L1 1 - 30MHz										
1.65422	35.75 qp	10.3	0	46.05	56	46	-	-	-	-
			Margin [dB]:		-9.95	.05	-	-	-	-
2.21246	36.94 qp	10.3	0	47.24	56	46	-	-	-	-
			Margin [dB]:		-8.76	1.24	-	-	-	-
3.62402	33.69 qp	10.4	0	44.09	56	46	-	-	-	-
			Margin [dB]:		-11.91	-1.91	-	-	-	-
5.20597	31.48 qp	10.4	0	41.88	60	50	-	-	-	-
			Margin [dB]:		-18.12	-8.12	-	-	-	-

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: 1001150981 File Number: MC15211 Page 25 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

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										
.1534	41.62 qp	12.1	0	53.72	65.8	55.8	-	-	-	-
			Margin [dB]:		-12.08	-2.08	-	-	-	-
.1766	40.8 qp	11.8	0	52.6	64.6	54.6	-	-	-	-
			Margin [dB]:		-12	-2	-	-	-	-
.19797	40.53 qp	11.5	0	52.03	63.7	53.7	-	-	-	-
			Margin [dB]:		-11.67	-1.67	-	-	-	-
.2214	39.65 qp	11.3	0	50.95	62.8	52.8	-	-	-	-
			Margin [dB]:		-11.85	-1.85	-	-	-	-
.24469	39.56 qp	11.2	0	50.76	61.9	51.9	-	-	-	-
			Margin [dB]:		-11.14	-1.14	-	-	-	-
.26655	38.87 qp	11	0	49.87	61.2	51.2	-	-	-	-
			Margin [dB]:		-11.33	-1.33	-	-	-	-
.2907	38.73 qp	10.9	0	49.63	60.5	50.5	-	-	-	-
			Margin [dB]:		-10.87	-.87	-	-	-	-
.30579	38.54 qp	10.9	0	49.44	60.1	50.1	-	-	-	-
			Margin [dB]:		-10.66	-.66	-	-	-	-
.3357	38.01 qp	10.8	0	48.81	59.3	49.3	-	-	-	-
			Margin [dB]:		-10.49	-.49	-	-	-	-
.3525	38.13 qp	10.8	0	48.93	58.9	48.9	-	-	-	-
			Margin [dB]:		-9.97	.03	-	-	-	-
.37242	37.24 qp	10.7	0	47.94	58.4	48.4	-	-	-	-
			Margin [dB]:		-10.46	-.46	-	-	-	-
.40181	37.38 qp	10.7	0	48.08	57.8	47.8	-	-	-	-
			Margin [dB]:		-9.72	.28	-	-	-	-
.46285	37.94 qp	10.6	0	48.54	56.6	46.6	-	-	-	-
			Margin [dB]:		-8.06	1.94	-	-	-	-
.65959	39.08 qp	10.5	0	49.58	56	46	-	-	-	-
			Margin [dB]:		-6.42	3.58	-	-	-	-
.86719	38.34 qp	10.5	0	48.84	56	46	-	-	-	-
			Margin [dB]:		-7.16	2.84	-	-	-	-
Neutral 1 - 30MHz										
1.6103	34.59 qp	10.4	0	44.99	56	46	-	-	-	-
			Margin [dB]:		-11.01	-1.01	-	-	-	-
2.11869	35.04 qp	10.4	0	45.44	56	46	-	-	-	-
			Margin [dB]:		-10.56	-.56	-	-	-	-
3.5793	32.72 qp	10.4	0	43.12	56	46	-	-	-	-
			Margin [dB]:		-12.88	-2.88	-	-	-	-
5.02745	31.81 qp	10.5	0	42.31	60	50	-	-	-	-
			Margin [dB]:		-17.69	-7.69	-	-	-	-

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: 1001150981 File Number: MC15211 Page 26 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

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										
.15532	26.9 ave	12.1	0	39	65.7	55.7	-	-	-	-
			Margin [dB]:		-26.7	-16.7	-	-	-	-
.17653	27.64 ave	11.8	0	39.44	64.6	54.6	-	-	-	-
			Margin [dB]:		-25.16	-15.16	-	-	-	-
.1981	28.77 ave	11.5	0	40.27	63.7	53.7	-	-	-	-
			Margin [dB]:		-23.43	-13.43	-	-	-	-
.21922	28.99 ave	11.3	0	40.29	62.8	52.8	-	-	-	-
			Margin [dB]:		-22.51	-12.51	-	-	-	-
.23702	26.92 ave	11.2	0	38.12	62.2	52.2	-	-	-	-
			Margin [dB]:		-24.08	-14.08	-	-	-	-
.26129	29.11 ave	11	0	40.11	61.4	51.4	-	-	-	-
			Margin [dB]:		-21.29	-11.29	-	-	-	-
.28949	30.15 ave	10.9	0	41.05	60.5	50.5	-	-	-	-
			Margin [dB]:		-19.45	-9.45	-	-	-	-
.3083	30.72 ave	10.9	0	41.62	60	50	-	-	-	-
			Margin [dB]:		-18.38	-8.38	-	-	-	-
.35185	31.3 ave	10.8	0	42.1	58.9	48.9	-	-	-	-
			Margin [dB]:		-16.8	-6.8	-	-	-	-
.39763	31.03 ave	10.7	0	41.73	57.9	47.9	-	-	-	-
			Margin [dB]:		-16.17	-6.17	-	-	-	-
.77782	33.22 ave	10.5	0	43.72	56	46	-	-	-	-
			Margin [dB]:		-12.28	-2.28	-	-	-	-
.99425	32.25 ave	10.4	0	42.65	56	46	-	-	-	-
			Margin [dB]:		-13.35	-3.35	-	-	-	-
.59289	31.65 ave	10.5	0	42.15	56	46	-	-	-	-
			Margin [dB]:		-13.85	-3.85	-	-	-	-
.4552	32.13 ave	10.6	0	42.73	56.8	46.8	-	-	-	-
			Margin [dB]:		-14.07	-4.07	-	-	-	-
.45093	31.97 ave	10.6	0	42.57	56.9	46.9	-	-	-	-
			Margin [dB]:		-14.33	-4.33	-	-	-	-
Line - L1 1 - 30MHz										
1.6607	27.45 ave	10.3	0	37.75	56	46	-	-	-	-
			Margin [dB]:		-18.25	-8.25	-	-	-	-
2.20909	32.35 ave	10.3	0	42.65	56	46	-	-	-	-
			Margin [dB]:		-13.35	-3.35	-	-	-	-
3.61334	29.93 ave	10.4	0	40.33	56	46	-	-	-	-
			Margin [dB]:		-15.67	-5.67	-	-	-	-
5.17745	27.25 ave	10.4	0	37.65	60	50	-	-	-	-
			Margin [dB]:		-22.35	-12.35	-	-	-	-

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: 1001150981 File Number: MC15211 Page 27 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

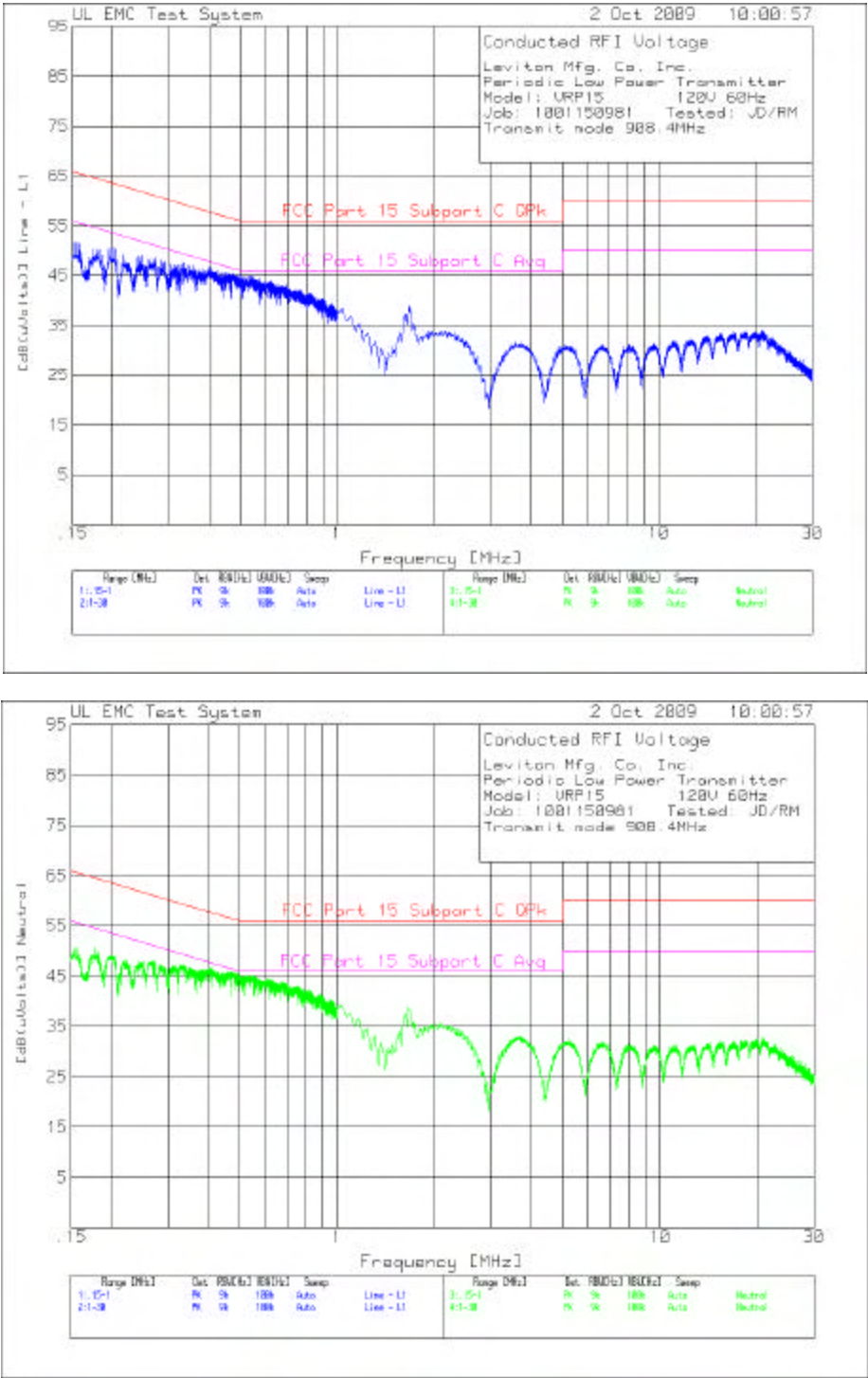
Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP03 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 XNSMIT Mode 908.4MHz

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										
.1534	26.74 ave	12.1	0	38.84	65.8	55.8	-	-	-	-
			Margin [dB]:		-26.96	-16.96	-	-	-	-
.17593	27.2 ave	11.8	0	39	64.7	54.7	-	-	-	-
			Margin [dB]:		-25.7	-15.7	-	-	-	-
.19791	28.23 ave	11.5	0	39.73	63.7	53.7	-	-	-	-
			Margin [dB]:		-23.97	-13.97	-	-	-	-
.22132	28.41 ave	11.3	0	39.71	62.8	52.8	-	-	-	-
			Margin [dB]:		-23.09	-13.09	-	-	-	-
.24461	28.69 ave	11.2	0	39.89	61.9	51.9	-	-	-	-
			Margin [dB]:		-22.01	-12.01	-	-	-	-
.26634	29.2 ave	11	0	40.2	61.2	51.2	-	-	-	-
			Margin [dB]:		-21	-11	-	-	-	-
.29082	28.83 ave	10.9	0	39.73	60.5	50.5	-	-	-	-
			Margin [dB]:		-20.77	-10.77	-	-	-	-
.3056	29.8 ave	10.9	0	40.7	60.1	50.1	-	-	-	-
			Margin [dB]:		-19.4	-9.4	-	-	-	-
.33544	29.47 ave	10.8	0	40.27	59.3	49.3	-	-	-	-
			Margin [dB]:		-19.03	-9.03	-	-	-	-
.35257	30.62 ave	10.8	0	41.42	58.9	48.9	-	-	-	-
			Margin [dB]:		-17.48	-7.48	-	-	-	-
.37202	30.18 ave	10.7	0	40.88	58.5	48.5	-	-	-	-
			Margin [dB]:		-17.62	-7.62	-	-	-	-
.40161	30.38 ave	10.7	0	41.08	57.8	47.8	-	-	-	-
			Margin [dB]:		-16.72	-6.72	-	-	-	-
.46303	30.42 ave	10.6	0	41.02	56.6	46.6	-	-	-	-
			Margin [dB]:		-15.58	-5.58	-	-	-	-
.6599	31.36 ave	10.5	0	41.86	56	46	-	-	-	-
			Margin [dB]:		-14.14	-4.14	-	-	-	-
.86725	32.12 ave	10.5	0	42.62	56	46	-	-	-	-
			Margin [dB]:		-13.38	-3.38	-	-	-	-
Neutral 1 - 30MHz										
1.60805	28.59 ave	10.4	0	38.99	56	46	-	-	-	-
			Margin [dB]:		-17.01	-7.01	-	-	-	-
2.12206	31.43 ave	10.4	0	41.83	56	46	-	-	-	-
			Margin [dB]:		-14.17	-4.17	-	-	-	-
3.57577	29.43 ave	10.4	0	39.83	56	46	-	-	-	-
			Margin [dB]:		-16.17	-6.17	-	-	-	-
5.0315	27.28 ave	10.5	0	37.78	60	50	-	-	-	-
			Margin [dB]:		-22.22	-12.22	-	-	-	-

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 7: Conducted Emissions Graph VRP15



Job Number: 1001150981 File Number: MC15211 Page 29 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 5: Conducted Emissions Data Points

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP15 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz -----											
1	.15306	39.55 pk	12.1	0	51.65	65.8	55.8	-	-	-	-
				Margin [dB]		-14.15	-4.15	-	-	-	-
2	.17721	38.46 pk	11.8	0	50.26	64.6	54.6	-	-	-	-
				Margin [dB]		-14.34	-4.34	-	-	-	-
3	.2039	38.74 pk	11.5	0	50.24	63.5	53.5	-	-	-	-
				Margin [dB]		-13.26	-3.26	-	-	-	-
4	.22584	36.25 pk	11.3	0	47.55	62.6	52.6	-	-	-	-
				Margin [dB]		-15.05	-5.05	-	-	-	-
5	.2476	37.98 pk	11.1	0	49.08	61.8	51.8	-	-	-	-
				Margin [dB]		-12.72	-2.72	-	-	-	-
6	.26953	37.69 pk	11	0	48.69	61.1	51.1	-	-	-	-
				Margin [dB]		-12.41	-2.41	-	-	-	-
7	.28892	36.93 pk	10.9	0	47.83	60.6	50.6	-	-	-	-
				Margin [dB]		-12.77	-2.77	-	-	-	-
8	.31085	36.13 pk	10.9	0	47.03	59.9	49.9	-	-	-	-
				Margin [dB]		-12.87	-2.87	-	-	-	-
9	.33279	36.85 pk	10.8	0	47.65	59.4	49.4	-	-	-	-
				Margin [dB]		-11.75	-1.75	-	-	-	-
10	.40318	36.09 pk	10.7	0	46.79	57.8	47.8	-	-	-	-
				Margin [dB]		-11.01	-1.01	-	-	-	-
11	.47221	34.78 pk	10.6	0	45.38	56.5	46.5	-	-	-	-
				Margin [dB]		-11.12	-1.12	-	-	-	-
12	.61895	33.37 pk	10.5	0	43.87	56	46	-	-	-	-
				Margin [dB]		-12.13	-2.13	-	-	-	-
13	.82997	31.14 pk	10.4	0	41.54	56	46	-	-	-	-
				Margin [dB]		-14.46	-4.46	-	-	-	-
Line - L1 1 - 30MHz -----											
14	1.67874	28.65 pk	10.3	0	38.95	56	46	-	-	-	-
				Margin [dB]		-17.05	-7.05	-	-	-	-

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: 1001150981 File Number: MC15211 Page 30 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP15 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Neutral .15 - 1MHz -----											
15	.15357	38.61 pk	12.1	0	50.71	65.8	55.8	-	-	-	-
				Margin [dB]		-15.09	-5.09	-	-	-	-
16	.17789	38.85 pk	11.8	0	50.65	64.6	54.6	-	-	-	-
				Margin [dB]		-13.95	-3.95	-	-	-	-
17	.19965	37.6 pk	11.5	0	49.1	63.6	53.6	-	-	-	-
				Margin [dB]		-14.5	-4.5	-	-	-	-
18	.22141	36.95 pk	11.3	0	48.25	62.8	52.8	-	-	-	-
				Margin [dB]		-14.55	-4.55	-	-	-	-
19	.24403	36.86 pk	11.2	0	48.06	62	52	-	-	-	-
				Margin [dB]		-13.94	-3.94	-	-	-	-
20	.26562	36.9 pk	11	0	47.9	61.3	51.3	-	-	-	-
				Margin [dB]		-13.4	-3.4	-	-	-	-
21	.28263	36.21 pk	11	0	47.21	60.7	50.7	-	-	-	-
				Margin [dB]		-13.49	-3.49	-	-	-	-
22	.30966	36.25 pk	10.9	0	47.15	60	50	-	-	-	-
				Margin [dB]		-12.85	-2.85	-	-	-	-
23	.33245	36.33 pk	10.8	0	47.13	59.4	49.4	-	-	-	-
				Margin [dB]		-12.27	-2.27	-	-	-	-
24	.40046	35.8 pk	10.7	0	46.5	57.8	47.8	-	-	-	-
				Margin [dB]		-11.3	-1.3	-	-	-	-
25	.4882	35.03 pk	10.6	0	45.63	56.2	46.2	-	-	-	-
				Margin [dB]		-10.57	-1.57	-	-	-	-
26	.62916	33.73 pk	10.5	0	44.23	56	46	-	-	-	-
				Margin [dB]		-11.77	-1.77	-	-	-	-
27	.76348	32.44 pk	10.5	0	42.94	56	46	-	-	-	-
				Margin [dB]		-13.06	-3.06	-	-	-	-
Neutral 1 - 30MHz -----											
28	1.66133	28.42 pk	10.4	0	38.82	56	46	-	-	-	-
				Margin [dB]		-17.18	-7.18	-	-	-	-

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: 1001150981 File Number: MC15211 Page 31 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP15 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

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										
.15386	34.31 ave	12.1	0	46.41	65.8	55.8	-	-	-	-
			Margin [dB]:		-19.39	-9.39	-	-	-	-
.17776	33.43 ave	11.7	0	45.13	64.6	54.6	-	-	-	-
			Margin [dB]:		-19.47	-9.47	-	-	-	-
.20218	33.1 ave	11.5	0	44.6	63.5	53.5	-	-	-	-
			Margin [dB]:		-18.9	-8.9	-	-	-	-
.22426	31.29 ave	11.3	0	42.59	62.7	52.7	-	-	-	-
			Margin [dB]:		-20.11	-10.11	-	-	-	-
.24603	31.17 ave	11.1	0	42.27	61.9	51.9	-	-	-	-
			Margin [dB]:		-19.63	-9.63	-	-	-	-
.26806	31.53 ave	11	0	42.53	61.2	51.2	-	-	-	-
			Margin [dB]:		-18.67	-8.67	-	-	-	-
.2888	30.78 ave	10.9	0	41.68	60.6	50.6	-	-	-	-
			Margin [dB]:		-18.92	-8.92	-	-	-	-
.31011	30.36 ave	10.9	0	41.26	60	50	-	-	-	-
			Margin [dB]:		-18.74	-8.74	-	-	-	-
.33188	29.9 ave	10.8	0	40.7	59.4	49.4	-	-	-	-
			Margin [dB]:		-18.7	-8.7	-	-	-	-
.40299	28.13 ave	10.7	0	38.83	57.8	47.8	-	-	-	-
			Margin [dB]:		-18.97	-8.97	-	-	-	-
.47368	27.91 ave	10.6	0	38.51	56.4	46.4	-	-	-	-
			Margin [dB]:		-17.89	-7.89	-	-	-	-
.61782	26.42 ave	10.5	0	36.92	56	46	-	-	-	-
			Margin [dB]:		-19.08	-9.08	-	-	-	-
.82966	24.34 ave	10.4	0	34.74	56	46	-	-	-	-
			Margin [dB]:		-21.26	-11.26	-	-	-	-
Line - L1 1 - 30MHz										
1.66927	18.87 ave	10.3	0	29.17	56	46	-	-	-	-
			Margin [dB]:		-26.83	-16.83	-	-	-	-

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: 1001150981 File Number: MC15211 Page 32 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRP15 120V 60Hz
 Job: 1001150981 Tested: JD/RM
 Transmit mode 908.4MHz

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										
.15406	34.36 ave	12.1	0	46.46	65.8	55.8	-	-	-	-
			Margin [dB]:		-19.34	-9.34	-	-	-	-
.17724	33.7 ave	11.8	0	45.5	64.6	54.6	-	-	-	-
			Margin [dB]:		-19.1	-9.1	-	-	-	-
.20016	34.07 ave	11.5	0	45.57	63.6	53.6	-	-	-	-
			Margin [dB]:		-18.03	-8.03	-	-	-	-
.22175	32.63 ave	11.3	0	43.93	62.8	52.8	-	-	-	-
			Margin [dB]:		-18.87	-8.87	-	-	-	-
.24416	31.98 ave	11.2	0	43.18	62	52	-	-	-	-
			Margin [dB]:		-18.82	-8.82	-	-	-	-
.26677	32.01 ave	11	0	43.01	61.2	51.2	-	-	-	-
			Margin [dB]:		-18.19	-8.19	-	-	-	-
.28417	30.44 ave	11	0	41.44	60.7	50.7	-	-	-	-
			Margin [dB]:		-19.26	-9.26	-	-	-	-
.31014	30.94 ave	10.9	0	41.84	60	50	-	-	-	-
			Margin [dB]:		-18.16	-8.16	-	-	-	-
.33162	30.41 ave	10.8	0	41.21	59.4	49.4	-	-	-	-
			Margin [dB]:		-18.19	-8.19	-	-	-	-
.3993	28.93 ave	10.7	0	39.63	57.9	47.9	-	-	-	-
			Margin [dB]:		-18.27	-8.27	-	-	-	-
.48816	27.74 ave	10.6	0	38.34	56.2	46.2	-	-	-	-
			Margin [dB]:		-17.86	-7.86	-	-	-	-
.63038	27.73 ave	10.5	0	38.23	56	46	-	-	-	-
			Margin [dB]:		-17.77	-7.77	-	-	-	-
.76433	26.15 ave	10.5	0	36.65	56	46	-	-	-	-
			Margin [dB]:		-19.35	-9.35	-	-	-	-
Neutral 1 - 30MHz										
1.66962	20.39 ave	10.4	0	30.79	56	46	-	-	-	-
			Margin [dB]:		-25.21	-15.21	-	-	-	-

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

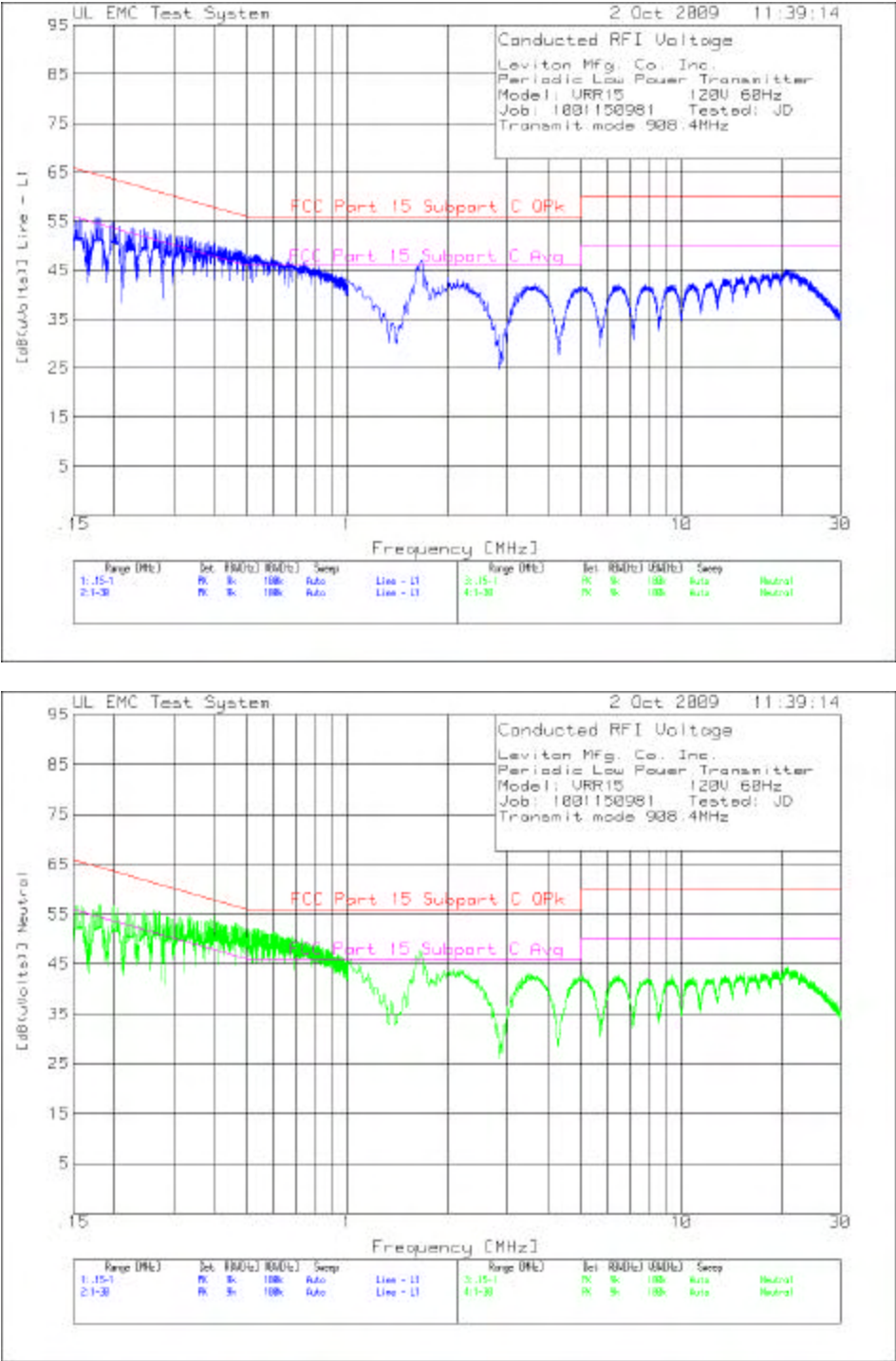
qp - Quasi-Peak detector

av - Average detector

avlg - denotes average log detection

ave - denotes average detection

Figure 8: Conducted Emissions Graph VRR15



Job Number: 1001150981 File Number: MC15211 Page 34 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 6: Conducted Emissions Data Points

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz -----											
1	.15748	43.57 pk	12.1	0	55.67	65.6	55.6	-	-	-	-
				Margin [dB]		-9.93	.07	-	-	-	-
2	.17925	43.99 pk	11.7	0	55.69	64.5	54.5	-	-	-	-
				Margin [dB]		-8.81	1.19	-	-	-	-
3	.19863	43.16 pk	11.5	0	54.66	63.7	53.7	-	-	-	-
				Margin [dB]		-9.04	.96	-	-	-	-
4	.22533	42.34 pk	11.3	0	53.64	62.6	52.6	-	-	-	-
				Margin [dB]		-8.96	1.04	-	-	-	-
5	.24437	42.37 pk	11.1	0	53.47	61.9	51.9	-	-	-	-
				Margin [dB]		-8.43	1.57	-	-	-	-
6	.27106	41.99 pk	11	0	52.99	61.1	51.1	-	-	-	-
				Margin [dB]		-8.11	1.89	-	-	-	-
7	.29283	41.45 pk	10.9	0	52.35	60.4	50.4	-	-	-	-
				Margin [dB]		-8.05	1.95	-	-	-	-
8	.32905	41.18 pk	10.8	0	51.98	59.5	49.5	-	-	-	-
				Margin [dB]		-7.52	2.48	-	-	-	-
9	.39927	39.69 pk	10.7	0	50.39	57.9	47.9	-	-	-	-
				Margin [dB]		-7.51	2.49	-	-	-	-
10	.49874	37.68 pk	10.6	0	48.28	56	46	-	-	-	-
				Margin [dB]		-7.72	2.28	-	-	-	-
11	.63154	36 pk	10.5	0	46.5	56	46	-	-	-	-
				Margin [dB]		-9.5	.5	-	-	-	-
12	.7742	34.58 pk	10.5	0	45.08	56	46	-	-	-	-
				Margin [dB]		-10.92	-.92	-	-	-	-
13	.97314	32.83 pk	10.4	0	43.23	56	46	-	-	-	-
				Margin [dB]		-12.77	-2.77	-	-	-	-
Line - L1 1 - 30MHz -----											
14	1.0116	32.53 pk	10.4	0	42.93	56	46	-	-	-	-
				Margin [dB]		-13.07	-3.07	-	-	-	-
15	1.66713	36.83 pk	10.3	0	47.13	56	46	-	-	-	-
				Margin [dB]		-8.87	1.13	-	-	-	-
16	2.13703	32.84 pk	10.3	0	43.14	56	46	-	-	-	-
				Margin [dB]		-12.86	-2.86	-	-	-	-
17	3.64533	31.94 pk	10.4	0	42.34	56	46	-	-	-	-
				Margin [dB]		-13.66	-3.66	-	-	-	-
18	5.0028	31.27 pk	10.4	0	41.67	60	50	-	-	-	-
				Margin [dB]		-18.33	-8.33	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 35 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Neutral .15 - 1MHz -----											
19	.1534	44.7 pk	12.1	0	56.8	65.8	55.8	-	-	-	-
				Margin [dB]		-9	1	-	-	-	-
20	.1801	45.41 pk	11.7	0	57.11	64.5	54.5	-	-	-	-
				Margin [dB]		-7.39	2.61	-	-	-	-
21	.19948	45.2 pk	11.5	0	56.7	63.6	53.6	-	-	-	-
				Margin [dB]		-6.9	3.1	-	-	-	-
22	.21886	43.94 pk	11.3	0	55.24	62.9	52.9	-	-	-	-
				Margin [dB]		-7.66	2.34	-	-	-	-
23	.24675	44.47 pk	11.1	0	55.57	61.9	51.9	-	-	-	-
				Margin [dB]		-6.33	3.67	-	-	-	-
24	.27089	44.43 pk	11	0	55.43	61.1	51.1	-	-	-	-
				Margin [dB]		-5.67	4.33	-	-	-	-
25	.28552	43.58 pk	11	0	54.58	60.7	50.7	-	-	-	-
				Margin [dB]		-6.12	3.88	-	-	-	-
26	.31459	43.41 pk	10.9	0	54.31	59.8	49.8	-	-	-	-
				Margin [dB]		-5.49	4.51	-	-	-	-
27	.3367	43.88 pk	10.8	0	54.68	59.3	49.3	-	-	-	-
				Margin [dB]		-4.62	5.38	-	-	-	-
28	.38754	43.35 pk	10.7	0	54.05	58.1	48.1	-	-	-	-
				Margin [dB]		-4.05	5.95	-	-	-	-
29	.46125	42.64 pk	10.6	0	53.24	56.7	46.7	-	-	-	-
				Margin [dB]		-3.46	6.54	-	-	-	-
30	.55094	41.31 pk	10.5	0	51.81	56	46	-	-	-	-
				Margin [dB]		-4.19	5.81	-	-	-	-
31	.63834	39.81 pk	10.5	0	50.31	56	46	-	-	-	-
				Margin [dB]		-5.69	4.31	-	-	-	-
32	.81636	37.93 pk	10.5	0	48.43	56	46	-	-	-	-
				Margin [dB]		-7.57	2.43	-	-	-	-
33	.94882	36.16 pk	10.4	0	46.56	56	46	-	-	-	-
				Margin [dB]		-9.44	.56	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 36 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

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 -----											
34	1.02321	35.45 pk	10.4	0	45.85	56	46	-	-	-	-
				Margin [dB]		-10.15	-1.15	-	-	-	-
35	1.15083	32.87 pk	10.4	0	43.27	56	46	-	-	-	-
				Margin [dB]		-12.73	-2.73	-	-	-	-
36	1.64393	37.39 pk	10.4	0	47.79	56	46	-	-	-	-
				Margin [dB]		-8.21	1.79	-	-	-	-
37	2.21824	33.31 pk	10.4	0	43.71	56	46	-	-	-	-
				Margin [dB]		-12.29	-2.29	-	-	-	-
38	3.60472	32.27 pk	10.4	0	42.67	56	46	-	-	-	-
				Margin [dB]		-13.33	-3.33	-	-	-	-
39	5.0028	32 pk	10.5	0	42.5	60	50	-	-	-	-
				Margin [dB]		-17.5	-7.5	-	-	-	-
40	6.45309	32.14 pk	10.6	0	42.74	60	50	-	-	-	-
				Margin [dB]		-17.26	-7.26	-	-	-	-
41	7.93819	31.34 pk	10.6	0	41.94	60	50	-	-	-	-
				Margin [dB]		-18.06	-8.06	-	-	-	-

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: 1001150981 File Number: MC15211 Page 37 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

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										
.15643	38.01 ave	12.1	0	50.11	65.7	55.7	-	-	-	-
			Margin [dB]:		-15.59	-5.59	-	-	-	-
.17837	37.41 ave	11.7	0	49.11	64.6	54.6	-	-	-	-
			Margin [dB]:		-15.49	-5.49	-	-	-	-
.20013	36.93 ave	11.5	0	48.43	63.6	53.6	-	-	-	-
			Margin [dB]:		-15.17	-5.17	-	-	-	-
.22399	35.29 ave	11.3	0	46.59	62.7	52.7	-	-	-	-
			Margin [dB]:		-16.11	-6.11	-	-	-	-
.24519	34.89 ave	11.1	0	45.99	61.9	51.9	-	-	-	-
			Margin [dB]:		-15.91	-5.91	-	-	-	-
.26961	34.51 ave	11	0	45.51	61.1	51.1	-	-	-	-
			Margin [dB]:		-15.59	-5.59	-	-	-	-
.29141	33.66 ave	10.9	0	44.56	60.5	50.5	-	-	-	-
			Margin [dB]:		-15.94	-5.94	-	-	-	-
.33056	32.57 ave	10.8	0	43.37	59.4	49.4	-	-	-	-
			Margin [dB]:		-16.03	-6.03	-	-	-	-
.39933	31.13 ave	10.7	0	41.83	57.9	47.9	-	-	-	-
			Margin [dB]:		-16.07	-6.07	-	-	-	-
.49949	31.03 ave	10.6	0	41.63	56	46	-	-	-	-
			Margin [dB]:		-14.37	-4.37	-	-	-	-
.6331	30.25 ave	10.5	0	40.75	56	46	-	-	-	-
			Margin [dB]:		-15.25	-5.25	-	-	-	-
.7729	28.35 ave	10.5	0	38.85	56	46	-	-	-	-
			Margin [dB]:		-17.15	-7.15	-	-	-	-
.97315	25.11 ave	10.4	0	35.51	56	46	-	-	-	-
			Margin [dB]:		-20.49	-10.49	-	-	-	-
Line - L1 1 - 30MHz										
1.02591	26.28 ave	10.4	0	36.68	56	46	-	-	-	-
			Margin [dB]:		-19.32	-9.32	-	-	-	-
1.65343	27.5 ave	10.3	0	37.8	56	46	-	-	-	-
			Margin [dB]:		-18.2	-8.2	-	-	-	-
2.14055	25.58 ave	10.3	0	35.88	56	46	-	-	-	-
			Margin [dB]:		-20.12	-10.12	-	-	-	-
3.64082	25.19 ave	10.4	0	35.59	56	46	-	-	-	-
			Margin [dB]:		-20.41	-10.41	-	-	-	-
5.00755	24.57 ave	10.4	0	34.97	60	50	-	-	-	-
			Margin [dB]:		-25.03	-15.03	-	-	-	-

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: 1001150981 File Number: MC15211 Page 38 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

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										
.15507	38.3 ave	12.1	0	50.4	65.7	55.7	-	-	-	-
			Margin [dB]:		-15.3	-5.3	-	-	-	-
.17884	38.19 ave	11.7	0	49.89	64.5	54.5	-	-	-	-
			Margin [dB]:		-14.61	-4.61	-	-	-	-
.20078	37.97 ave	11.5	0	49.47	63.6	53.6	-	-	-	-
			Margin [dB]:		-14.13	-4.13	-	-	-	-
.2205	35.52 ave	11.3	0	46.82	62.8	52.8	-	-	-	-
			Margin [dB]:		-15.98	-5.98	-	-	-	-
.24576	36.22 ave	11.1	0	47.32	61.9	51.9	-	-	-	-
			Margin [dB]:		-14.58	-4.58	-	-	-	-
.26933	35.87 ave	11	0	46.87	61.1	51.1	-	-	-	-
			Margin [dB]:		-14.23	-4.23	-	-	-	-
.28705	34.58 ave	11	0	45.58	60.6	50.6	-	-	-	-
			Margin [dB]:		-15.02	-5.02	-	-	-	-
.31338	34.49 ave	10.9	0	45.39	59.9	49.9	-	-	-	-
			Margin [dB]:		-14.51	-4.51	-	-	-	-
.3356	34.47 ave	10.8	0	45.27	59.3	49.3	-	-	-	-
			Margin [dB]:		-14.03	-4.03	-	-	-	-
.38643	32.71 ave	10.7	0	43.41	58.1	48.1	-	-	-	-
			Margin [dB]:		-14.69	-4.69	-	-	-	-
.46017	32.9 ave	10.6	0	43.5	56.7	46.7	-	-	-	-
			Margin [dB]:		-13.2	-3.2	-	-	-	-
.54944	32.72 ave	10.5	0	43.22	56	46	-	-	-	-
			Margin [dB]:		-12.78	-2.78	-	-	-	-
.63686	32.38 ave	10.5	0	42.88	56	46	-	-	-	-
			Margin [dB]:		-13.12	-3.12	-	-	-	-
.81751	30.09 ave	10.5	0	40.59	56	46	-	-	-	-
			Margin [dB]:		-15.41	-5.41	-	-	-	-
.94875	27.65 ave	10.4	0	38.05	56	46	-	-	-	-
			Margin [dB]:		-17.95	-7.95	-	-	-	-

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: 1001150981 File Number: MC15211 Page 39 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton Mfg. Co. Inc.
 Periodic Low Power Transmitter
 Model: VRR15 120V 60Hz
 Job: 1001150981 Tested: JD
 Transmit mode 908.4MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 [dB(uVolts)]	2	3	4	5	6
=====									
Neutral 1 - 30MHz									
1.02515	28.04 ave	10.4	0	38.44	56	46	-	-	-
			Margin [dB]:		-17.56	-7.56	-	-	-
1.1591	24.53 ave	10.4	0	34.93	56	46	-	-	-
			Margin [dB]:		-21.07	-11.07	-	-	-
1.6566	28.41 ave	10.4	0	38.81	56	46	-	-	-
			Margin [dB]:		-17.19	-7.19	-	-	-
2.20424	26.54 ave	10.4	0	36.94	56	46	-	-	-
			Margin [dB]:		-19.06	-9.06	-	-	-
3.60939	25.76 ave	10.4	0	36.16	56	46	-	-	-
			Margin [dB]:		-19.84	-9.84	-	-	-
4.99877	25.62 ave	10.5	0	36.12	56	46	-	-	-
			Margin [dB]:		-19.88	-9.88	-	-	-
6.46969	25.08 ave	10.6	0	35.68	60	50	-	-	-
			Margin [dB]:		-24.32	-14.32	-	-	-
7.94486	23.98 ave	10.6	0	34.58	60	50	-	-	-
			Margin [dB]:		-25.42	-15.42	-	-	-

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.
Basic Standard:	FCC Part 15, Subpart C, 15.215, RSS-210

Table 7 Occupied Bandwidth Configuration Settings

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

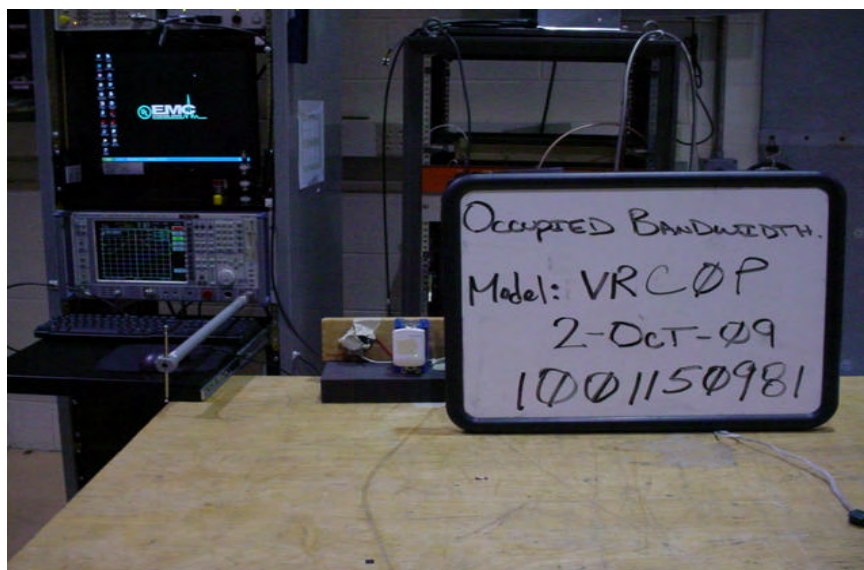
Table 8 Occupied Bandwidth Spectrum Analyzer Settings

Resolution Bandwidth (MHz)	Occupied Bandwidth Requirements	
	dBc	%
0.100	-20	99
Supplementary information: None		

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	87V	44547

Figure 9 Test Setup for Occupied Bandwidth



VRC0P

Figure 10: Test Setup for Occupied Bandwidth



VRP03

Figure 11: Test Setup for Occupied Bandwidth



VRP15

Figure 12: Test Setup for Occupied Bandwidth

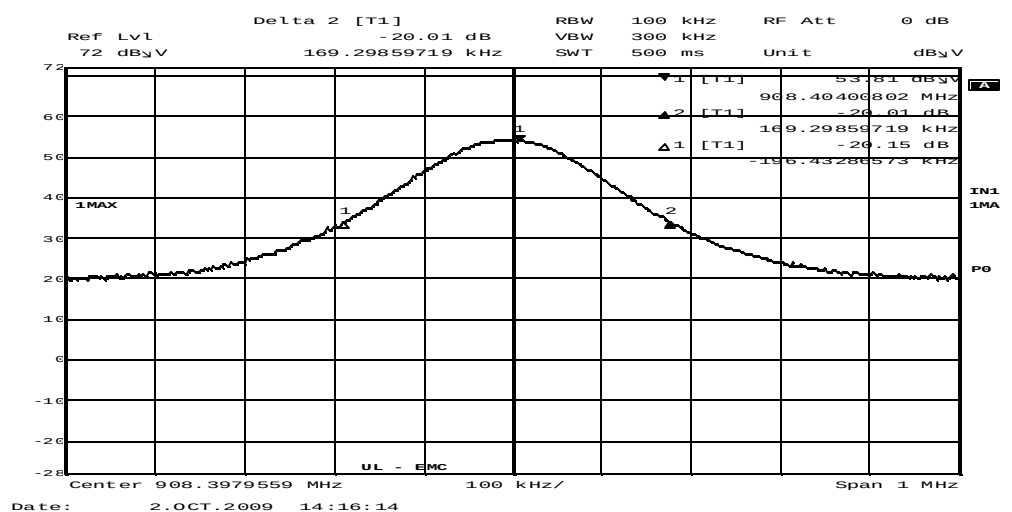


VRR15

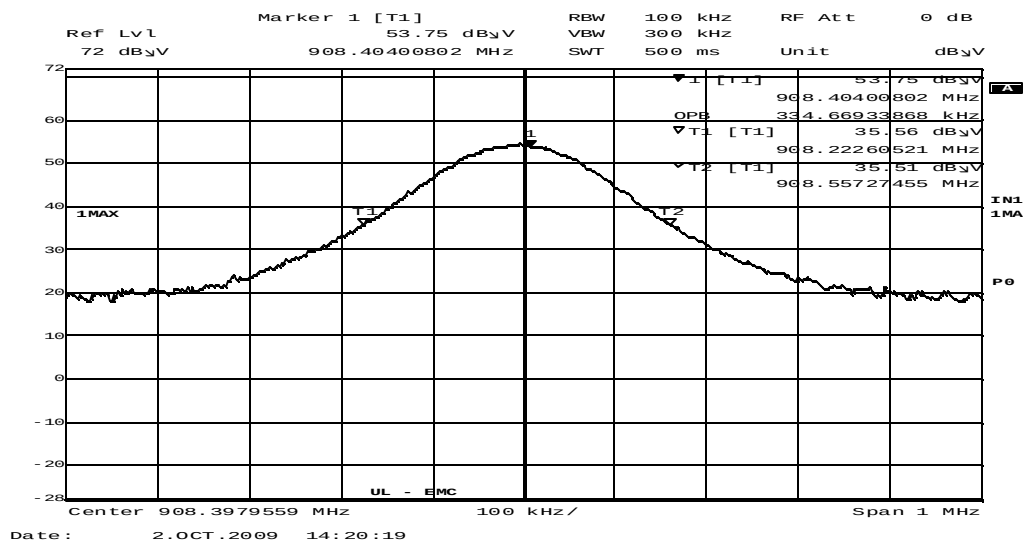
Job Number: 1001150981 File Number: MC15211 Page 43 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

	Model	20db	99%
Occupied Bandwidth Limits			
2.271MHz	VRC0P	365.7KHz	334.6KHz
2.271MHz	VRP03	354.7KHz	314.6KHz
2.271MHz	VRP15	352.6KHz	316.6KHz
2.271MHz	VRR15	364.8KHz	472.9KHz

Figure 13 Occupied Bandwidth Graph



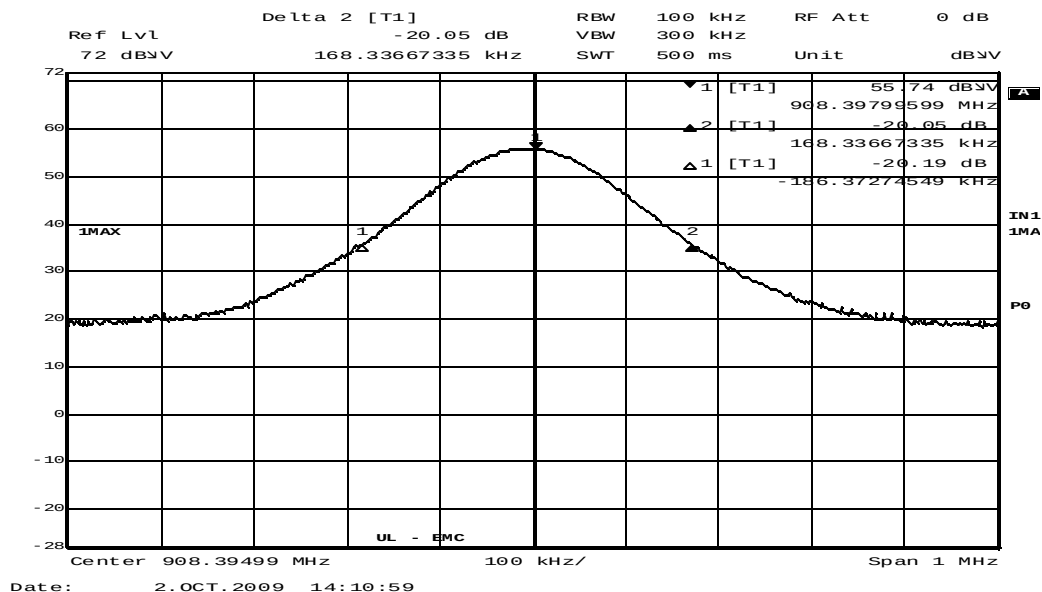
VRC0P 20dB



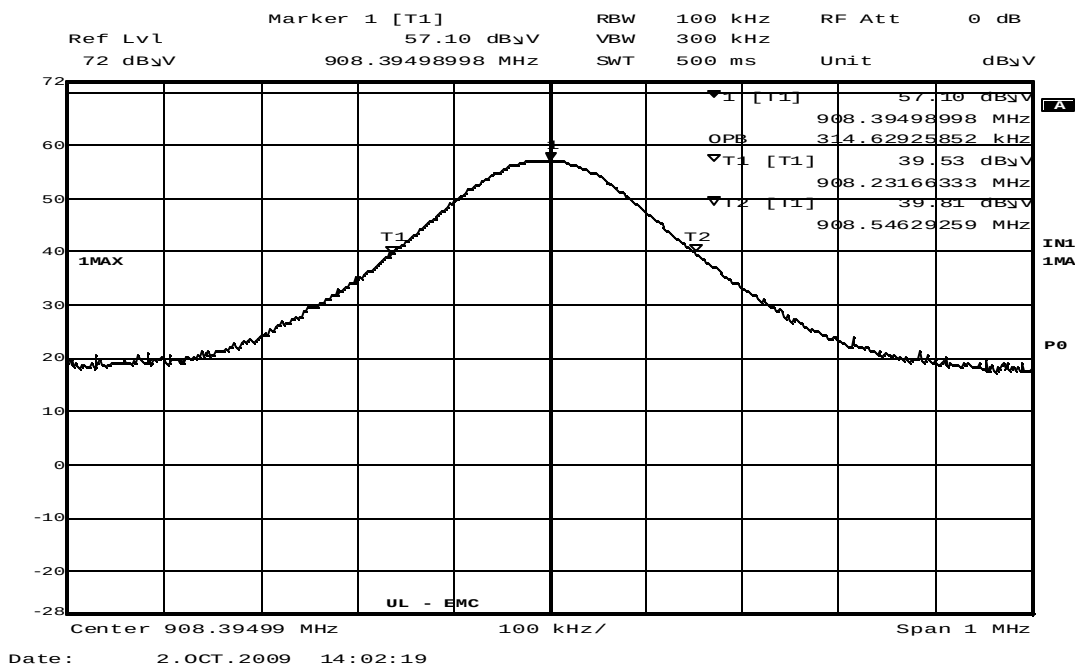
VRC0P 99%

Job Number: 1001150981 File Number: MC15211 Page 44 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Figure 14: Occupied Bandwidth Graph



VRP03 20dB



VRP03 99%

Figure 15: Occupied Bandwidth Graph

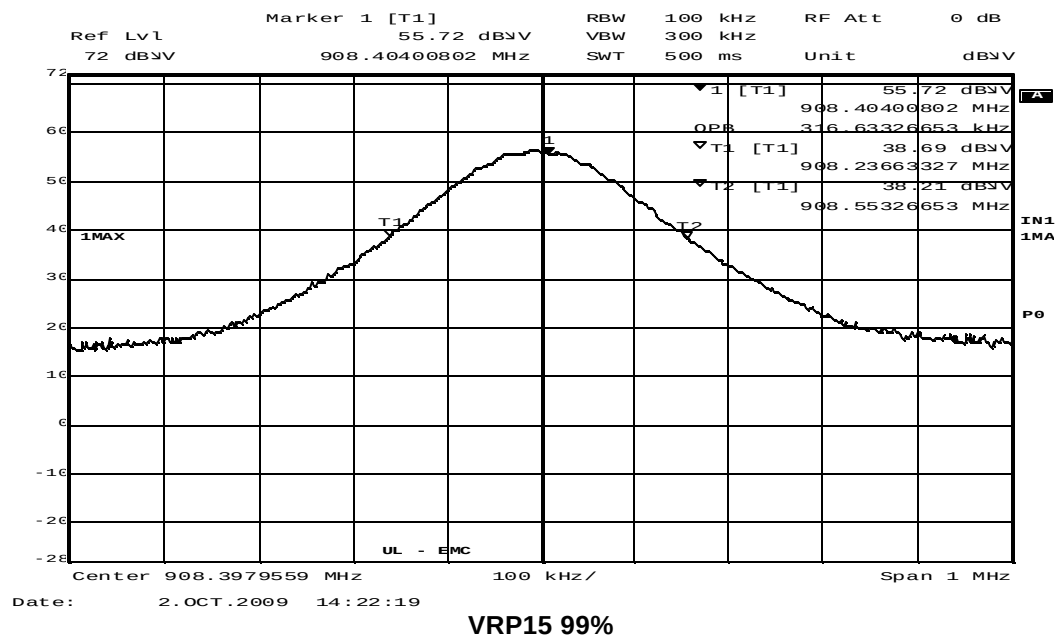
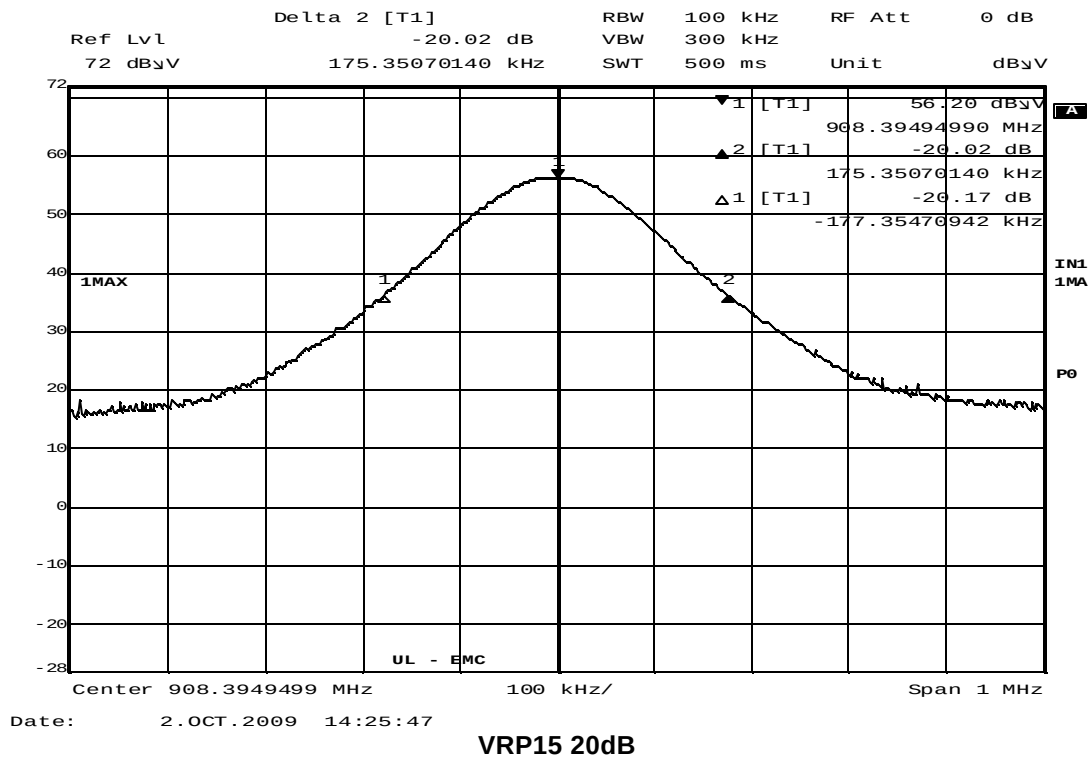
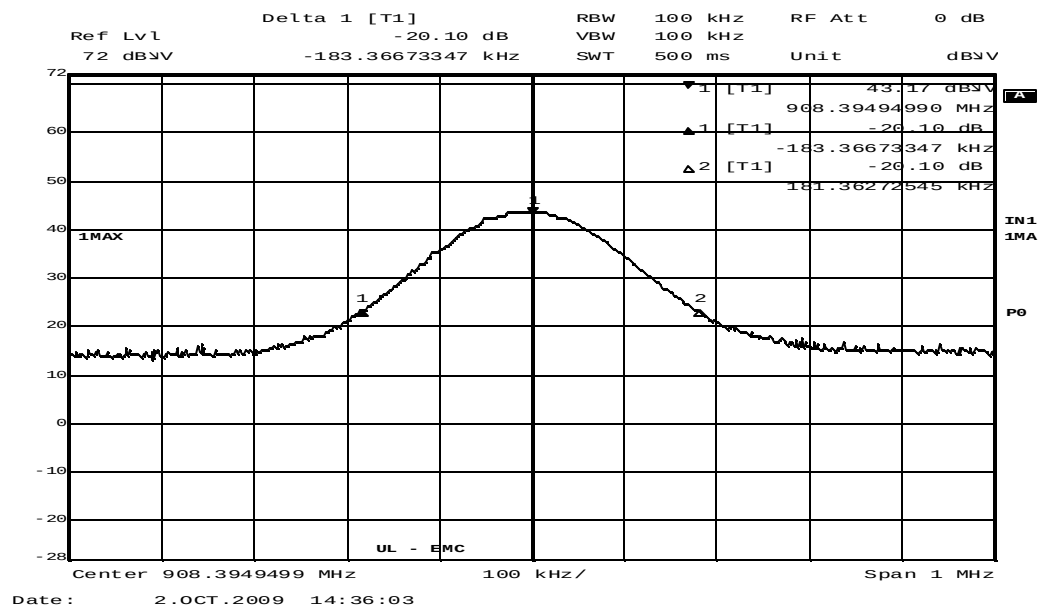
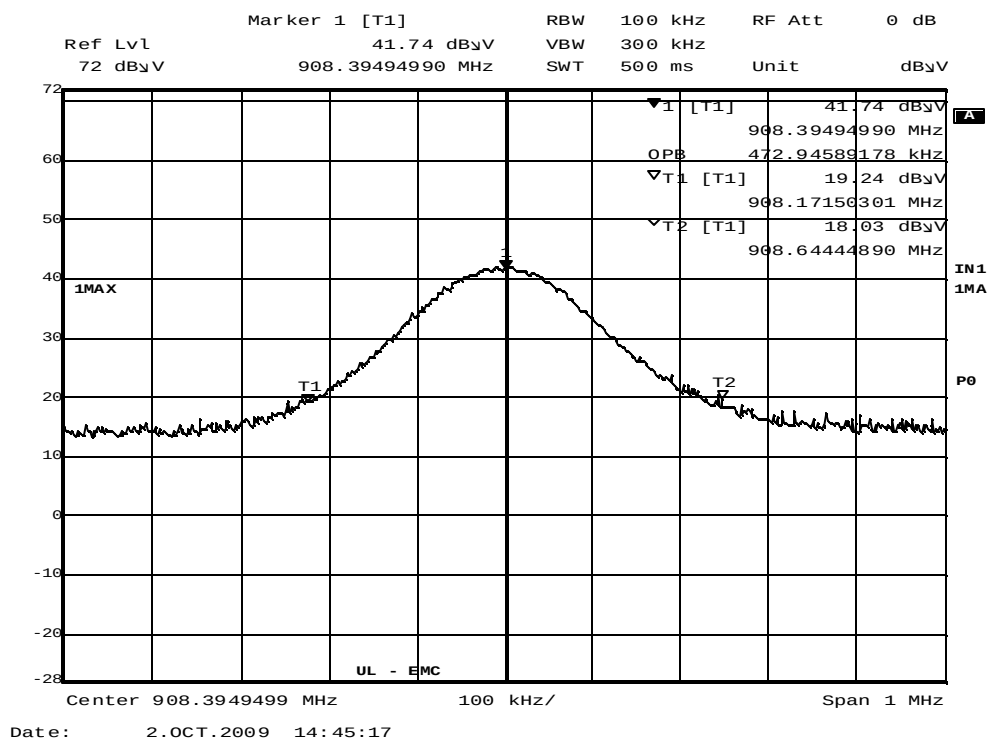


Figure 16: Occupied Bandwidth Graph



VRR15 20dB



VRR15 99%

4.3 Test Conditions and Results – RADIATED EMISSIONS (TRANSMIT)

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4: 2003 Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.		
Basic Standard		FCC Part 15, Subpart C, 15.209 & 15.249	
UL LPG		80-EM-S0029	
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	0.009 MHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 10 GHz	(3 meter measurement distance)	
Limits			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious
0.009 – 0.490	128.5 – 93.8	-	-
0.490 – 1.705	73.8 – 63	-	-
1.705 – 30	69.5	-	-
30 – 88	40	-	-
88 – 216	43.5	-	-
216-960	46	-	-
1000-10000	54	-	-
908.42	-	94	
All > 908.42 Spurious	-	-	54
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			

Job Number: 1001150981 File Number: MC15211 Page 49 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 10 Radiated Emissions EUT Configuration Settings

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

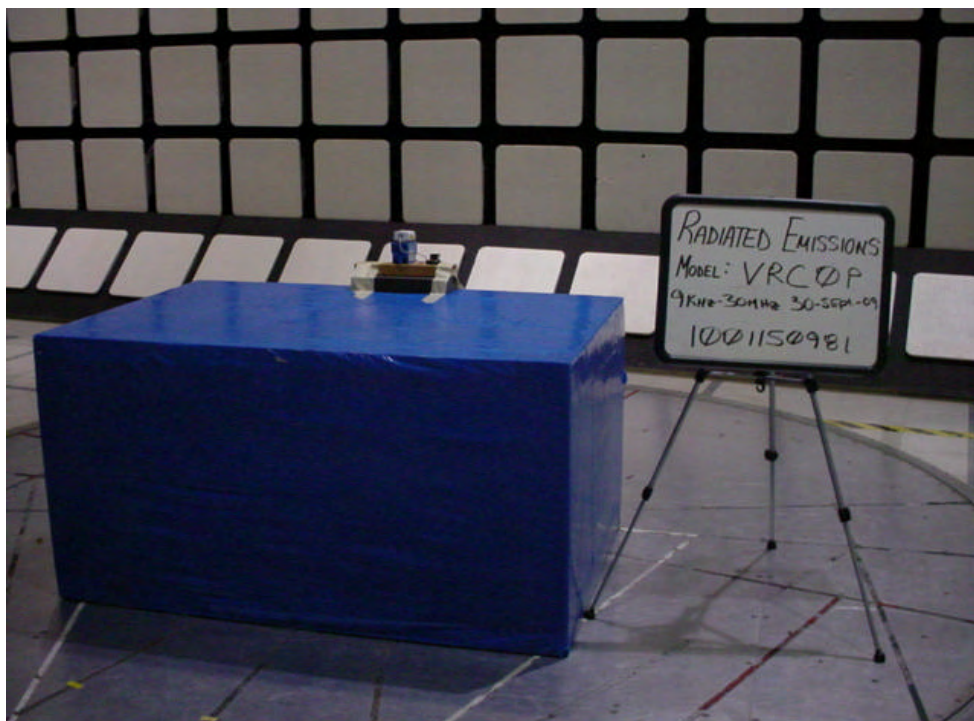
Table 11 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
9KHz-30MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Active Loop Antenna	EMCO	6507	ME5A-288
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83III	ME5B-306
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	54
Log-P Antenna	Schaffner	UPA6109	44067
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
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

Job Number: 1001150981 File Number: MC15211 Page 50 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

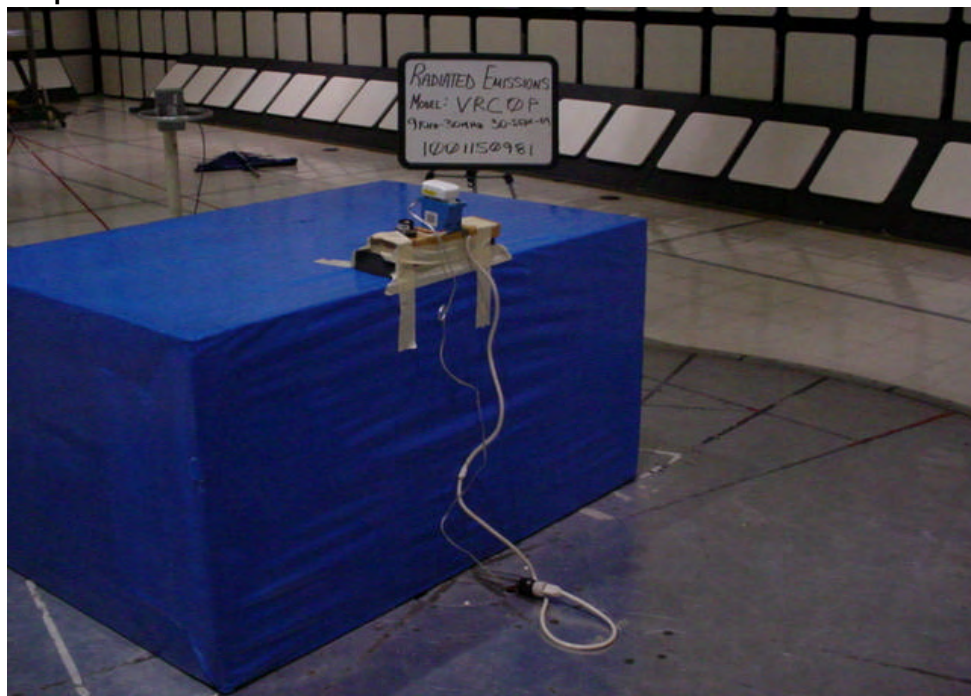
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Horn Antenna (2-4 GHz)	ETS	3161-02	48107
Horn Antenna (4-8 GHz)	ETS	3161-03	48106
Horn Antenna (8-12 GHz)	ETS	3160-07	8933
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251
RF Switch / Preamp Fixture	UL	BOMS1	50249
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268

Figure 17: Test setup for Radiated Emissions



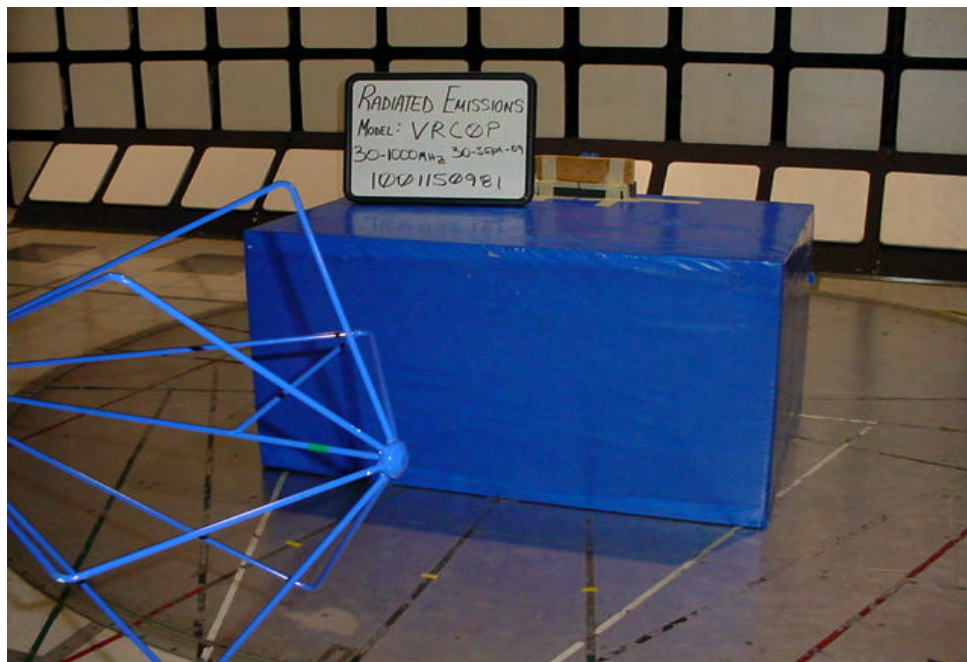
VRC0P Front View Vertical 9KHz to 30MHz

Figure 18: Test setup for Radiated Emissions



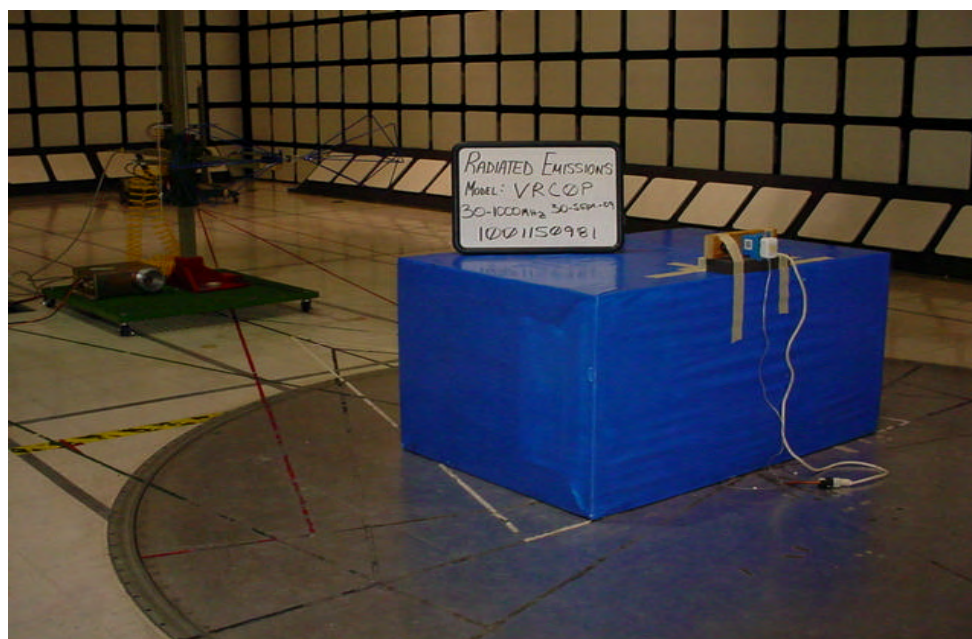
VRC0P Rear View Horizontal 9KHz to 30MHz

Figure 19: Radiated Emissions Graph



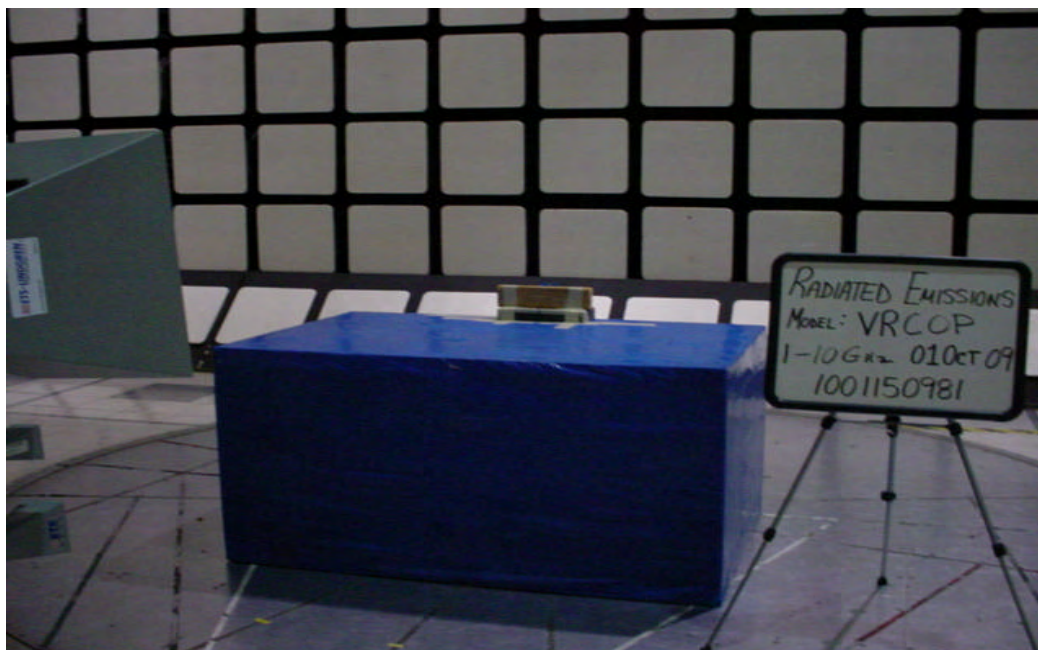
VRC0P Front View 30MHz to 1000MHz

Figure 20: Test setup for Radiated Emissions



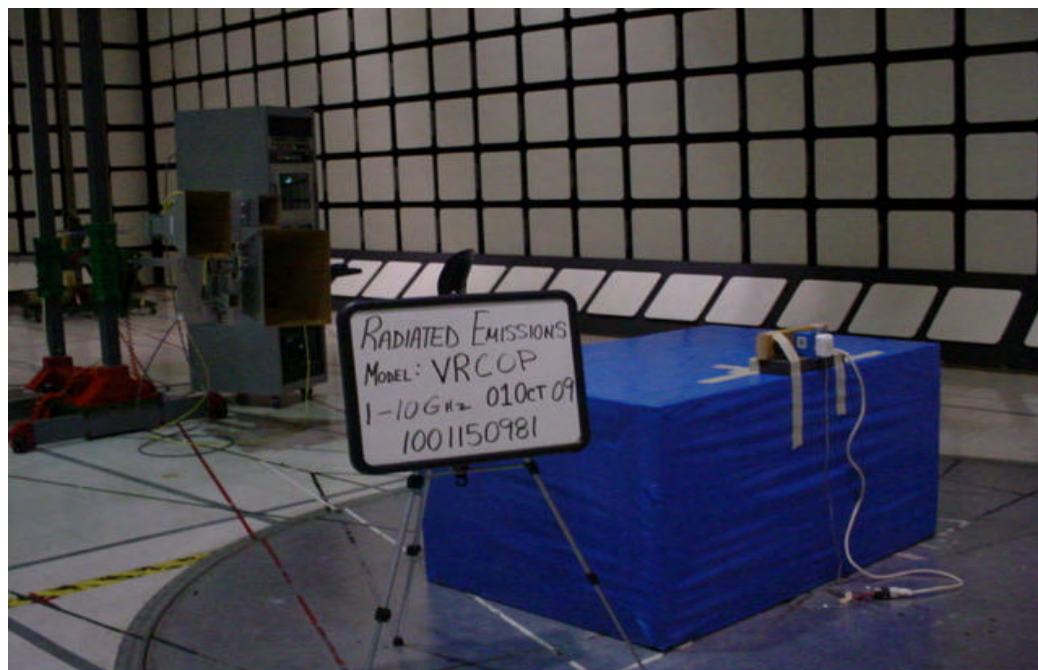
VRC0P Front Rear 30MHz to 1000MHz

Figure 21: Test setup for Radiated Emissions



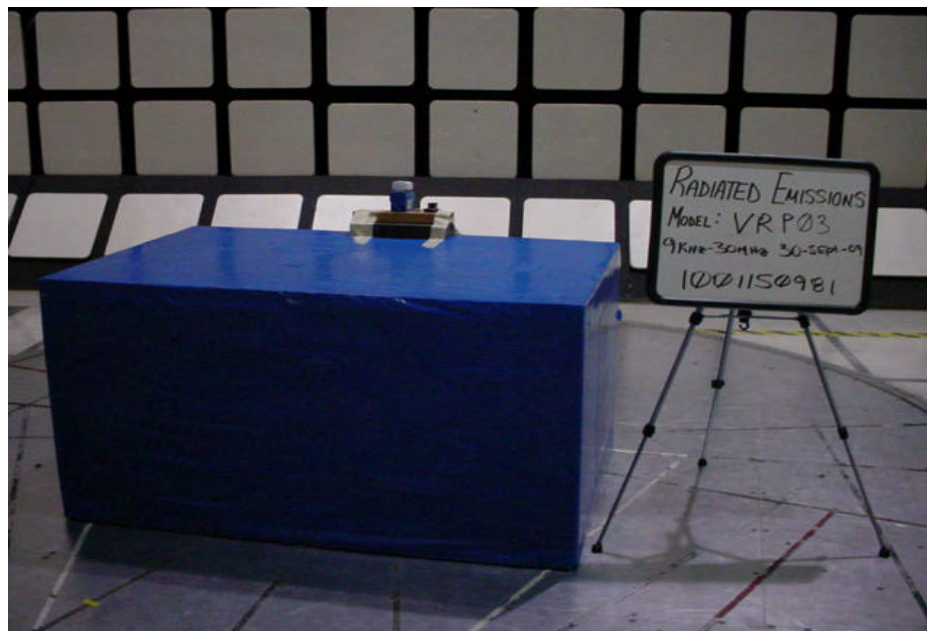
VRC0P Front View 1GHz to 10GHz

Figure 22: Test setup for Radiated Emissions



VRC0P Rear View 1GHz to 10GHz

Figure 23: Test setup for Radiated Emissions



VRP03 Front View Vertical 9KHz to 30MHz

Figure 24: Test setup for Radiated Emissions



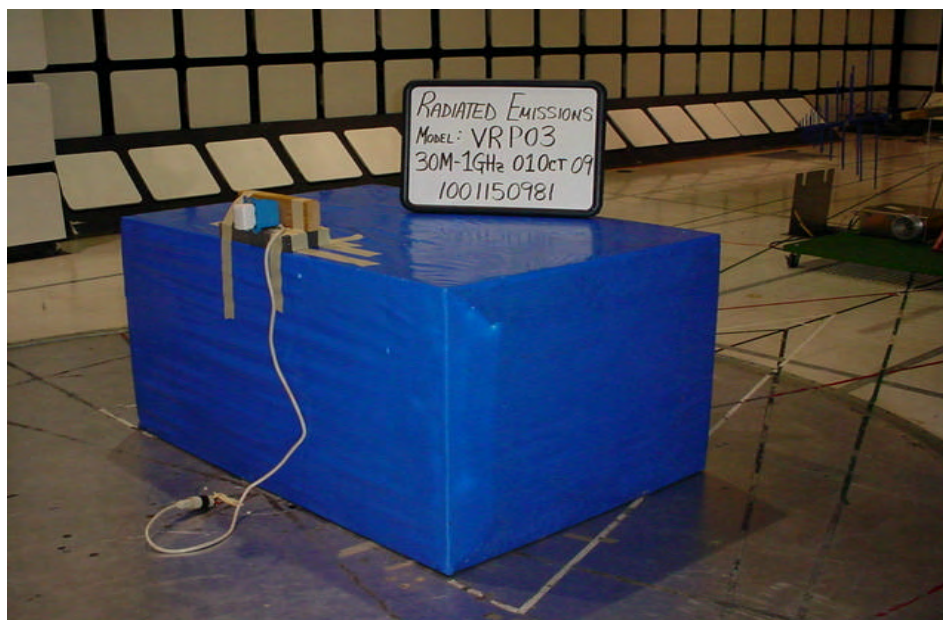
VRP03 Rear View Horizontal 9KHz to 30MHz

Figure 25: Test setup for Radiated Emissions



VRP03 Front View 30MHz to 1000MHz

Figure 26: Test setup for Radiated Emissions



VRP03 Rear View 30MHz to 1000MHz

Figure 27: Test setup for Radiated Emissions



VRP03 Front View 1GHz to 10GHz

Figure 28: Test setup for Radiated Emissions



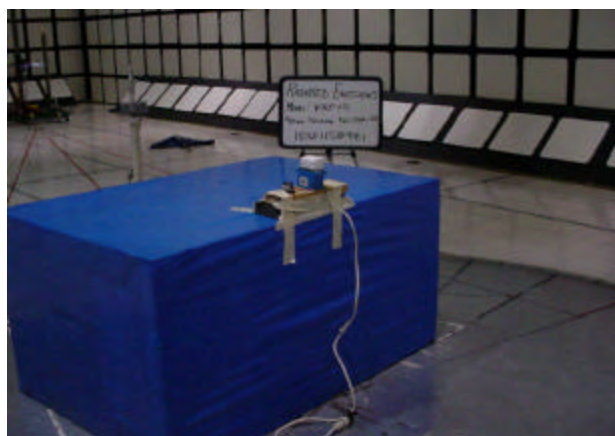
VRP03 Rear View 1GHz to 10GHz

Figure 29: Test setup for Radiated Emissions



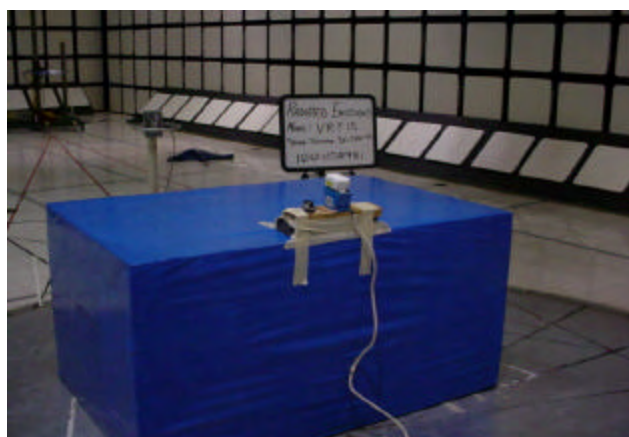
VRP15 Front View Vertical 9KHz to 30MHz

Figure 30: Test setup for Radiated Emissions



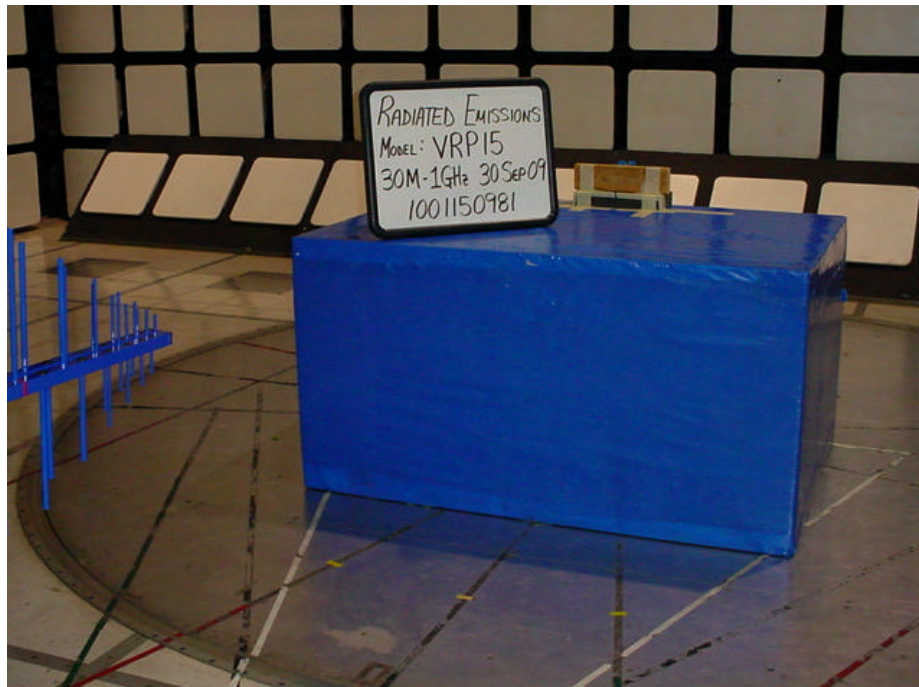
VRP15 Rear View Vertical 9KHz to 30MHz

Figure 31: Test setup for Radiated Emissions



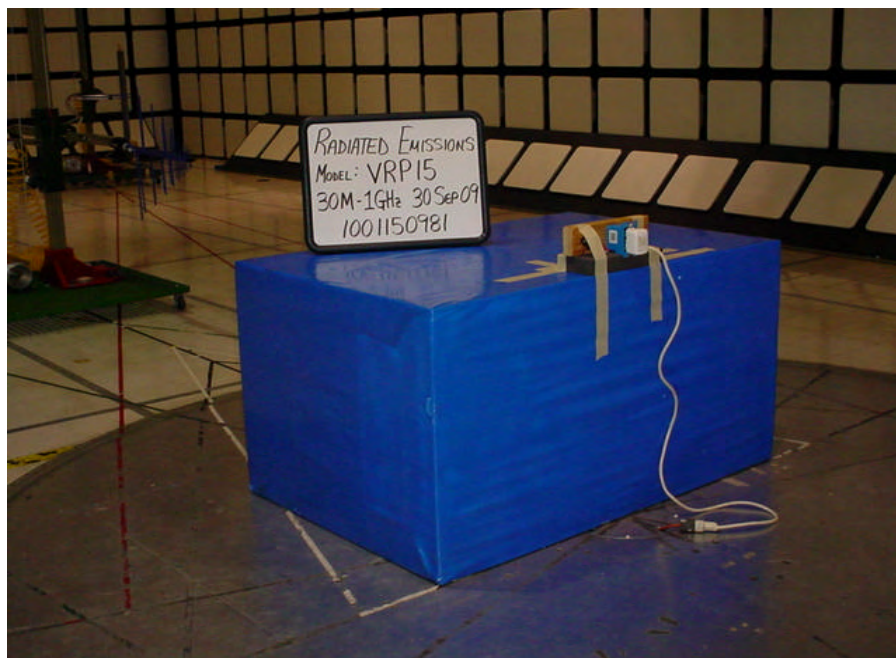
VRP15 Rear View Horizontal 9KHz to 30MHz

Figure 32: Test setup for Radiated Emissions



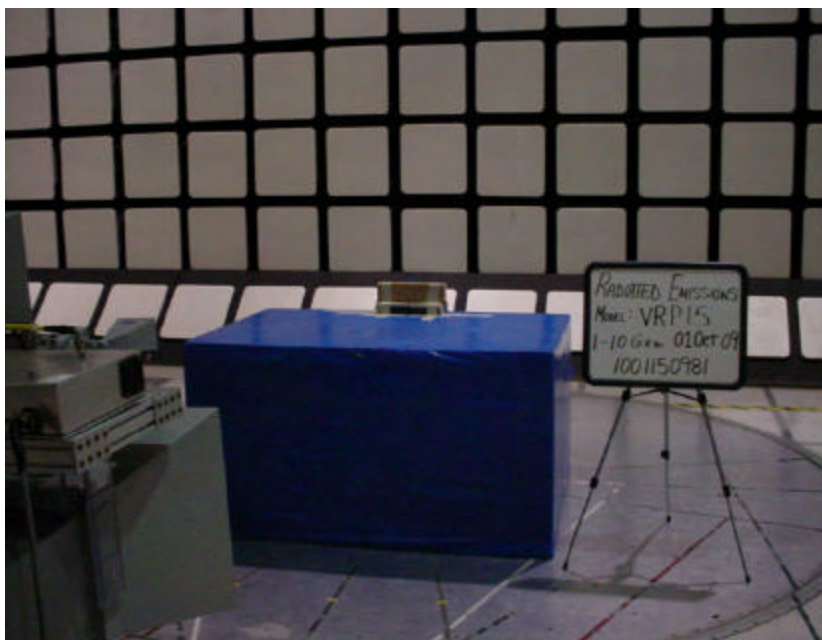
VRP15 Front View 30MHz to 1000MHz

Figure 33: Test setup for Radiated Emissions



VRP15 Rear View 30MHz to 1000MHz

Figure 34: Test setup for Radiated Emissions



VRP15 Front View 1GHz to 10GHz

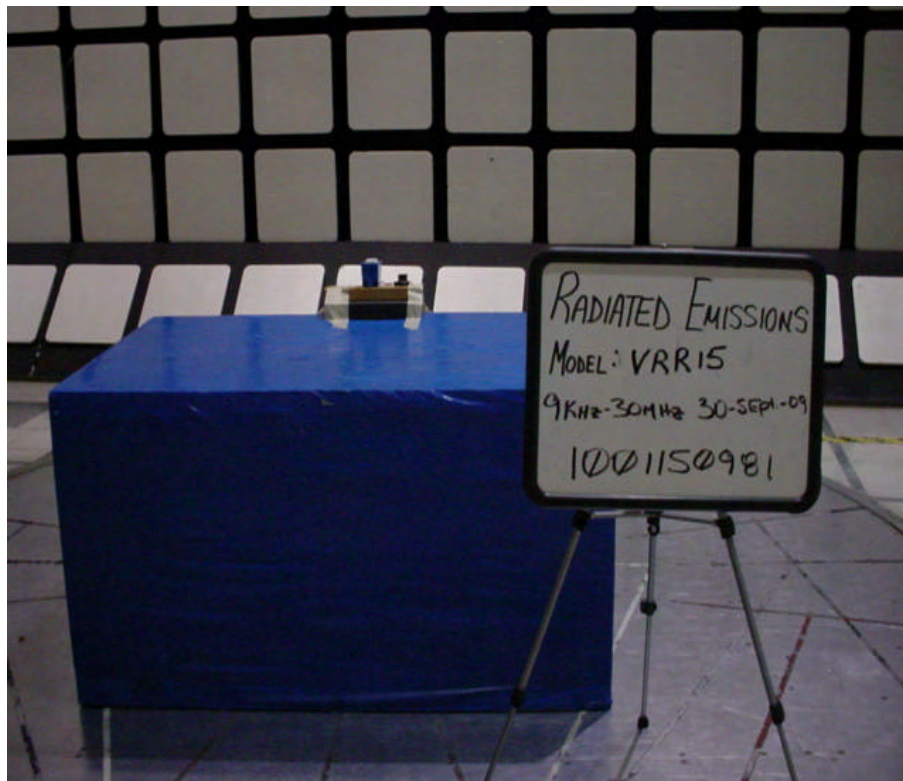
Figure 35: Test setup for Radiated Emissions



Job Number: 1001150981 File Number: MC15211 Page 60 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

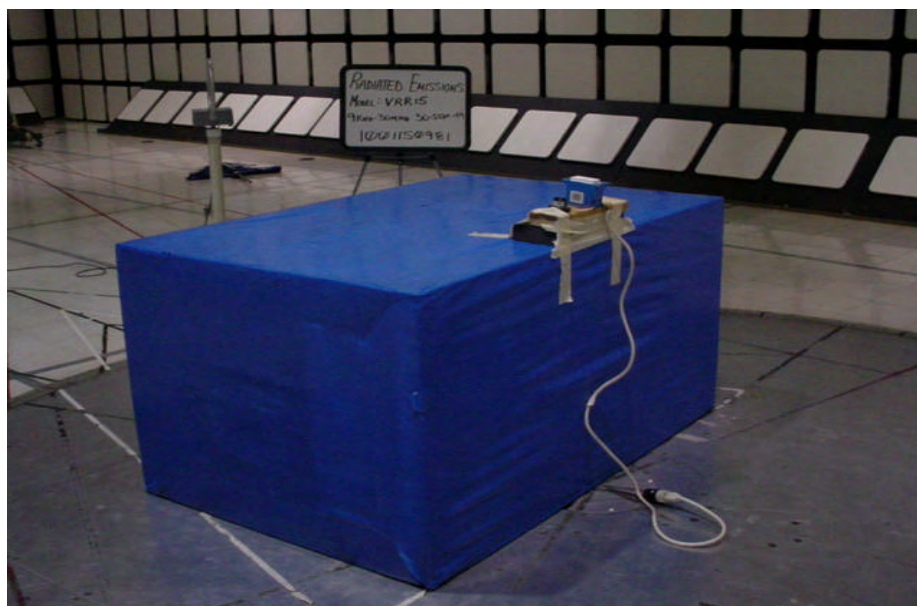
VRP15 Rear View 1GHz to 10GHz

Figure 36: Test setup for Radiated Emissions



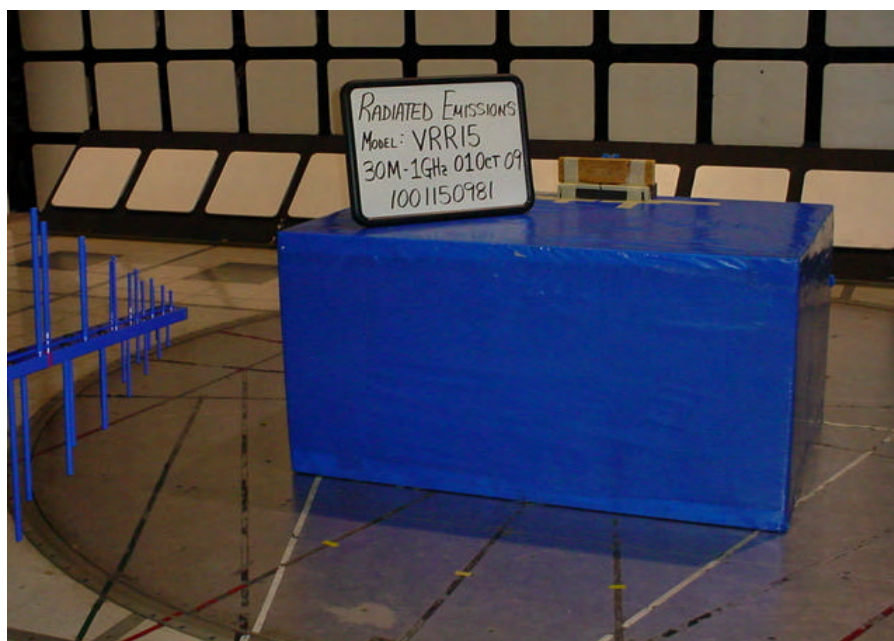
VRR15 Front View Vertical 9KHz to 30MHz

Figure 37: Test setup for Radiated Emissions



VRR15 Rear View Vertical 9KHz to 30MHz

Figure 38: Test setup for Radiated Emissions



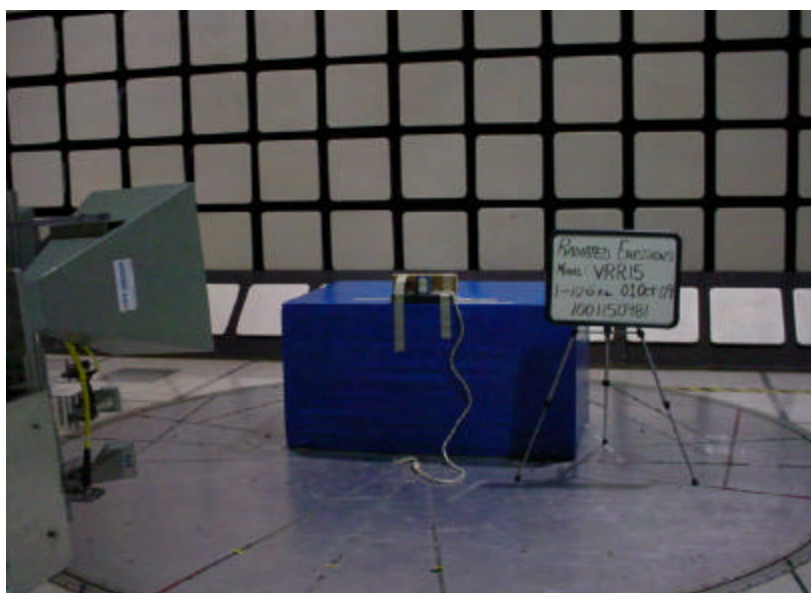
VRR15 Front View 30MHz to 1000MHz

Figure 39: Test setup for Radiated Emissions



VRR15 Rear View 30MHz to 1000MHz

Figure 40: Test setup for Radiated Emissions



VRR15 Front View 1GHz to 10GHz

Job Number: 1001150981 File Number: MC15211 Page 63 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Figure 41: Test setup for Radiated Emissions



VRR15 Rear View 1GHz to 10GHz

Figure 18: Radiated Emissions Graph

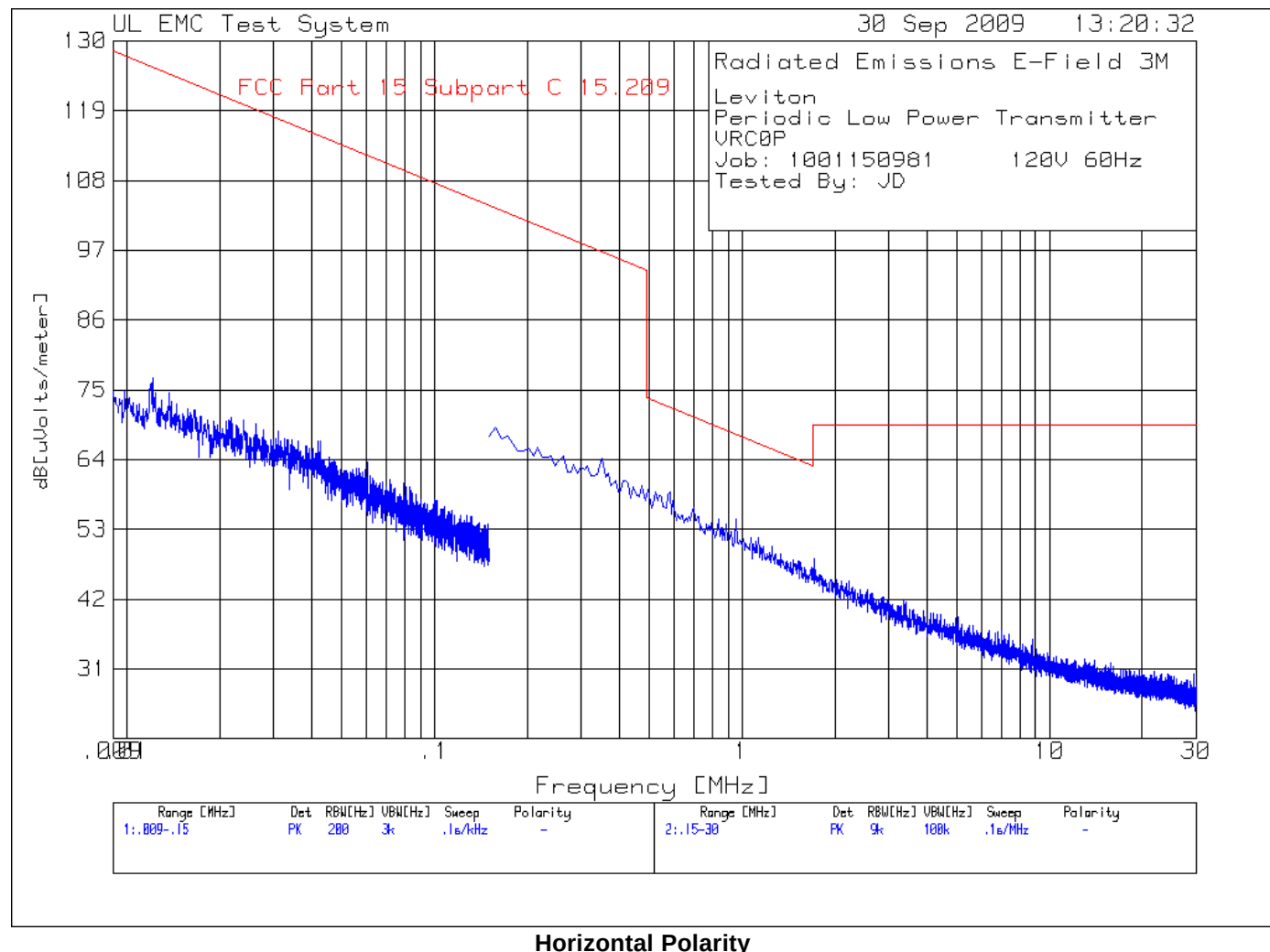
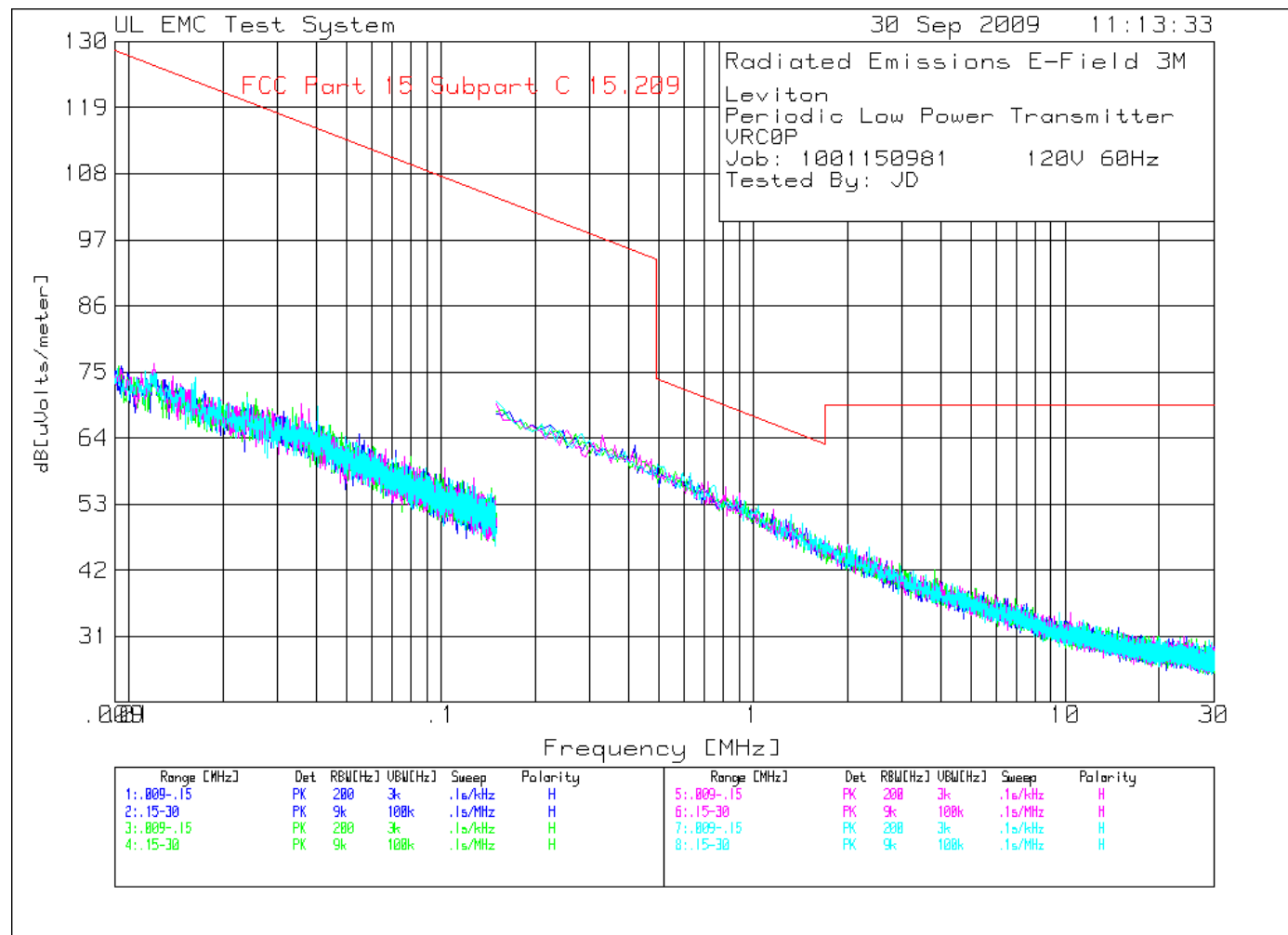


Figure 19: Radiated Emissions Graph



Vertical Polarity

Job Number: 1001150981 File Number: MC15211 Page 66 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 19 Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRC0P
 Job: 1001150981 120V 60Hz
 Tested By: JD

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	-----									
6	.26943	46.95 pk	0	17.1	64.05	99	-	-	-	-	-
	Azimuth:4	Height:101	Horz	Margin [dB]		-34.95	-	-	-	-	-
90°	.009 - .15MHz	-----									
1	.01205	46.1 pk	.2	30	76.3	126	-	-	-	-	-
	Azimuth:6	Height:140	Horz	Margin [dB]		-49.7	-	-	-	-	-
4	.03586	46.61 pk	0	23.1	69.71	116.5	-	-	-	-	-
	Azimuth:76	Height:140	Horz	Margin [dB]		-46.79	-	-	-	-	-
135°	.009 - .15MHz	-----									
2	.01634	46.2 pk	.1	27.7	74	123.3	-	-	-	-	-
	Azimuth:6	Height:160	Horz	Margin [dB]		-49.3	-	-	-	-	-
3	.02401	45.83 pk	0	25	70.83	120	-	-	-	-	-
	Azimuth:209	Height:160	Horz	Margin [dB]		-49.17	-	-	-	-	-
5	.04026	46.83 pk	0	22.4	69.23	115.5	-	-	-	-	-
	Azimuth:301	Height:160	Horz	Margin [dB]		-46.27	-	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 67 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

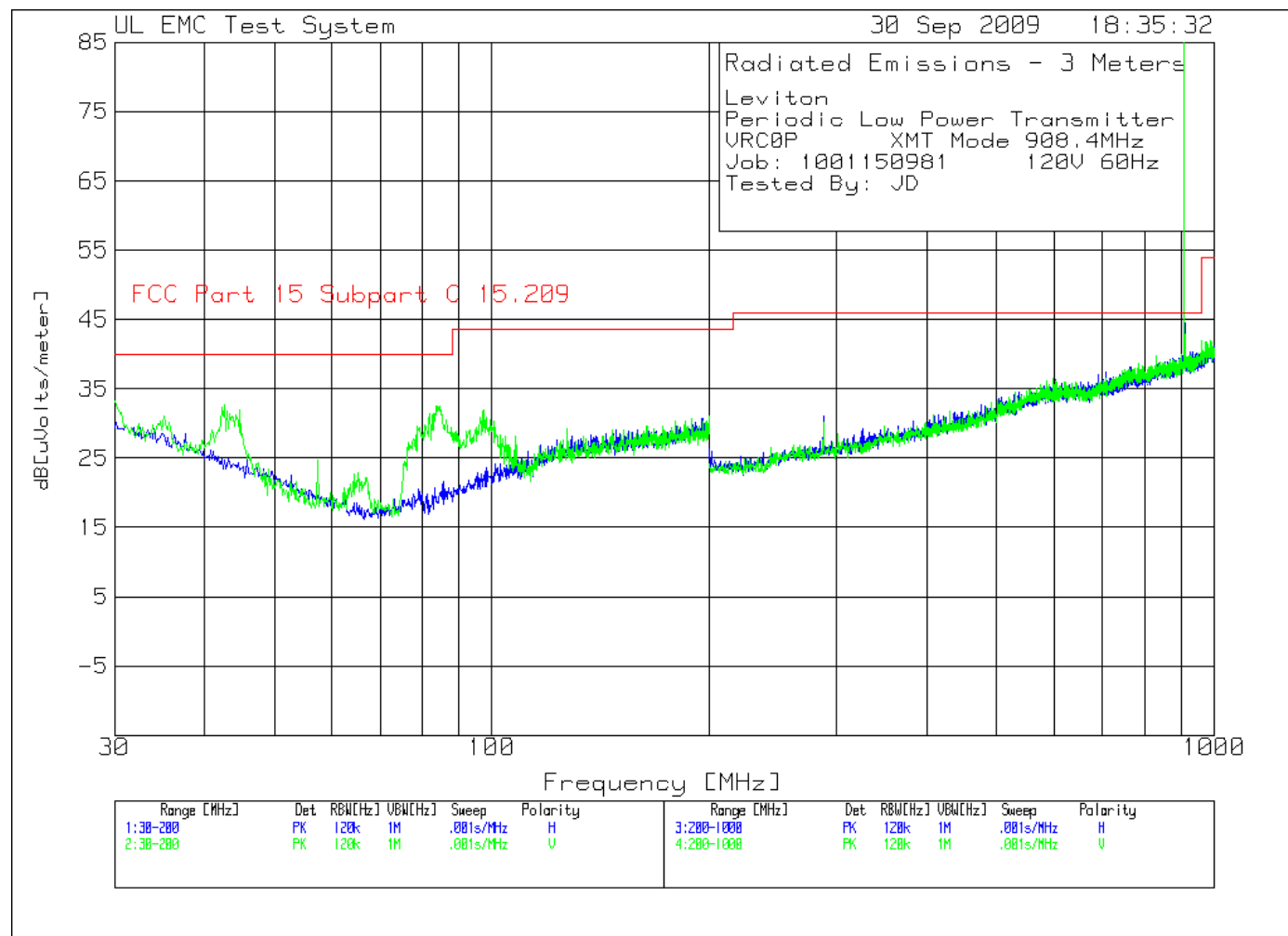
Leviton
 Periodic Low Power Transmitter
 Model: VRC0P
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Range 1 .009 - .15MHz -----											
1	.01216	46.84 pk	.1	29.9	76.84	125.9	-	-	-	-	-
	Azimuth:358			Margin [dB]		-49.06	-	-	-	-	-
2	.02401	45.26 pk	0	25	70.26	120	-	-	-	-	-
	Azimuth:6			Margin [dB]		-49.74	-	-	-	-	-
3	.04274	45.08 pk	0	21.9	66.98	115	-	-	-	-	-
	Azimuth:76			Margin [dB]		-48.02	-	-	-	-	-
4	.06046	43.58 pk	0	20	63.58	112	-	-	-	-	-
	Azimuth:2			Margin [dB]		-48.42	-	-	-	-	-
5	.08303	41.09 pk	0	18.6	59.69	109.2	-	-	-	-	-
	Azimuth:358			Margin [dB]		-49.51	-	-	-	-	-
Range 2 .15 - 30MHz -----											
6	.21718	48.75 pk	0	17.2	65.95	100.9	-	-	-	-	-
	Azimuth:85			Margin [dB]		-34.95	-	-	-	-	-
7	.47097	42.72 pk	0	17.2	59.92	94.1	-	-	-	-	-
	Azimuth:237			Margin [dB]		-34.18	-	-	-	-	-
8	.95615	37.77 pk	0	16.8	54.57	68	-	-	-	-	-
	Azimuth:358			Margin [dB]		-13.43	-	-	-	-	-

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 20: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 69 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRC0P XMT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	37.6577	12.61 pk	.4	15.5	28.51	40	-	-	-	-	-
	Azimuth:343	Height:300	Horz	Margin [dB]		-11.49	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	42.5926	20.02 pk	.4	12.3	32.72	40	-	-	-	-	-
	Azimuth:211	Height:100	Vert	Margin [dB]		-7.28	-	-	-	-	-
3	84.1141	23.47 pk	.6	8.5	32.57	40	-	-	-	-	-
	Azimuth:103	Height:100	Vert	Margin [dB]		-7.43	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	288.044	16.32 pk	1.1	13.7	31.12	46	-	-	-	-	-
	Azimuth:170	Height:100	Horz	Margin [dB]		-14.88	-	-	-	-	-
5	908.7544	57.77 pk	2	23.1	82.87	46	94	-	-	-	-
	Azimuth:300	Height:400	Horz	Margin [dB]		36.87	-11.13	-	-	-	-
Vertical 200 - 1000MHz -----											
6	288.044	15.63 pk	1.1	13.4	30.13	46	-	-	-	-	-
	Azimuth:180	Height:100	Vert	Margin [dB]		-15.87	-	-	-	-	-
7	908.7544	60.98 pk	2	23.2	86.18	46	94	-	-	-	-
	Azimuth:266	Height:100	Vert	Margin [dB]		40.18	-7.82	-	-	-	-
8	959.5798	15.57 pk	1.9	24.4	41.87	46	-	-	-	-	-
	Azimuth:137	Height:100	Vert	Margin [dB]		-4.13	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.249

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

Job Number: 1001150981 File Number: MC15211 Page 70 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRC0P XMT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD

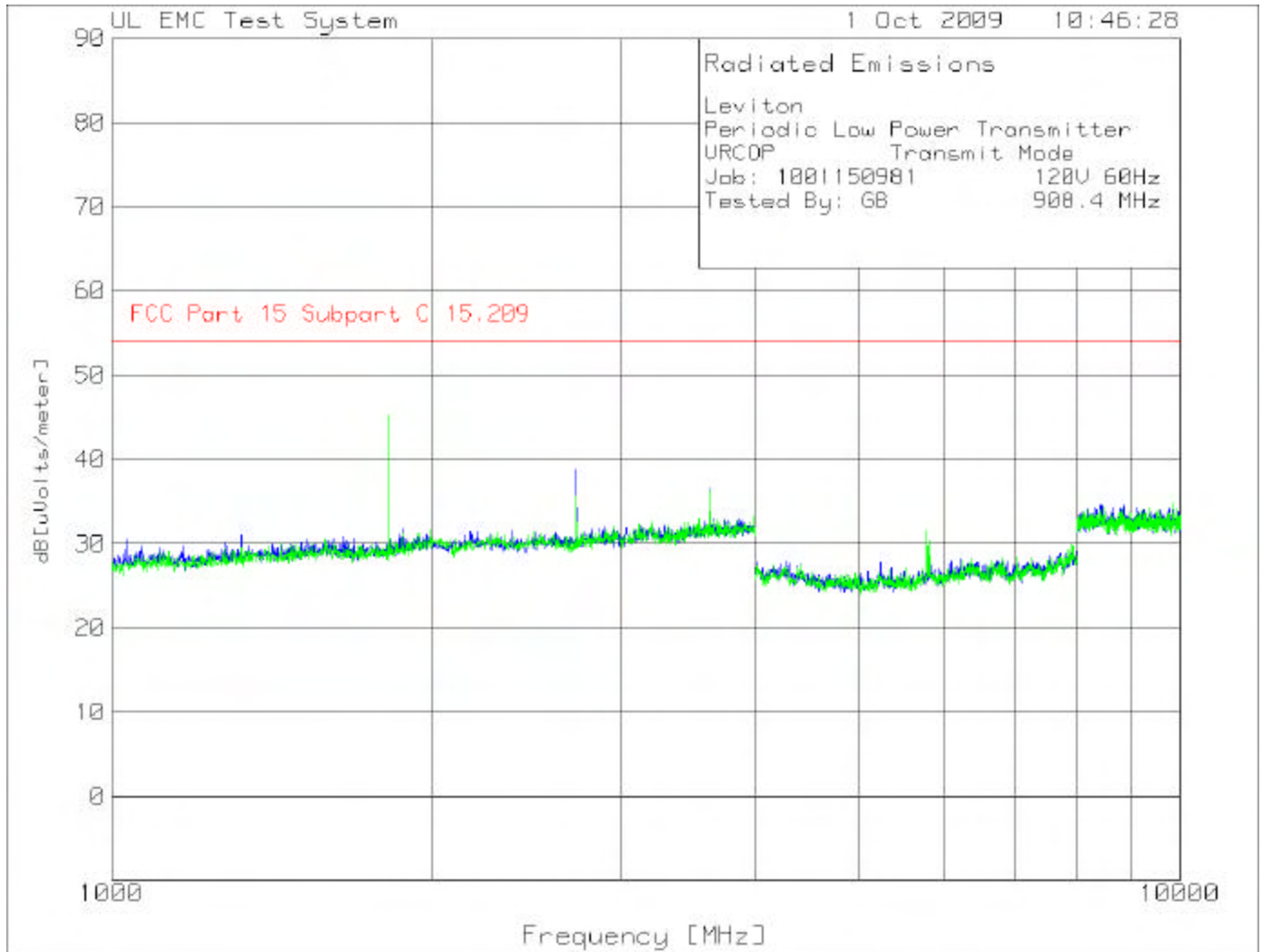
Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 200 - 1000MHz										
908.3973	59.56 pk	2	23.1	84.66	46	94	-	-	-	-
Azimuth: 300 Height:234 Horz					Margin [dB]:	38.66	-9.34	-	-	-
908.3973	59.61 qp	2	23.1	84.71	46	94	-	-	-	-
Azimuth: 300 Height:234 Horz					Margin [dB]:	38.71	-9.29	-	-	-
Vertical 200 - 1000MHz										
908.3963	64.53 pk	2	23.2	89.73	46	94	-	-	-	-
Azimuth: 266 Height:117 Vert					Margin [dB]:	43.73	-4.27	-	-	-
908.3963	64.48 qp	2	23.2	89.68	46	94	-	-	-	-
Azimuth: 266 Height:117 Vert					Margin [dB]:	43.68	-4.32	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C 15.249

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

Figure 21: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 72 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRC0P Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Horizontal 1000 - 2000MHz -----											
1	1817.728	59.62 pk	-44.88	21.1	35.84	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-18.16	-	-	-	-	-
Horizontal 2000 - 4000MHz -----											
3	2724.095	60.67 pk	-43.52	21.6	38.75	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-15.25	-	-	-	-	-
6	3635.456	56.95 pk	-42.74	22.4	36.61	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-17.39	-	-	-	-	-
Horizontal 4000 - 8000MHz -----											
9	5244.592	54.36 pk	-53.84	27.3	27.82	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-26.18	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
2	1817.728	69.05 pk	-44.88	21.1	45.27	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-8.73	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
4	2724.095	57.94 pk	-43.52	21.2	35.62	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-18.38	-	-	-	-	-
5	3635.456	56.92 pk	-42.74	22.2	36.38	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-17.62	-	-	-	-	-
Vertical 4000 - 8000MHz -----											
7	5797.005	57.52 pk	-53.6	27.7	31.62	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-22.38	-	-	-	-	-
8	5823.627	56.27 pk	-53.53	27.7	30.44	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-23.56	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 73 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRC0P Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 1000 - 2000MHz										
1816.8125	61.97 PK	-44.94	21.1	38.13	54	-	-	-	-	-
Azimuth: 281 Height:100 Horz				Margin [dB]:	-15.87	-	-	-	-	-
1816.8125	58.01 AV	-44.94	21.1	34.17	54	-	-	-	-	-
Azimuth: 281 Height:100 Horz				Margin [dB]:	-19.83	-	-	-	-	-
Horizontal 2000 - 4000MHz										
2725.2375	59.5 PK	-43.53	21.7	37.67	54	-	-	-	-	-
Azimuth: 191 Height:314 Horz				Margin [dB]:	-16.33	-	-	-	-	-
2725.2375	55.93 AV	-43.53	21.7	34.1	54	-	-	-	-	-
Azimuth: 191 Height:314 Horz				Margin [dB]:	-19.9	-	-	-	-	-
3633.607	58.57 PK	-42.8	22.4	38.17	54	-	-	-	-	-
Azimuth: 111 Height:362 Horz				Margin [dB]:	-15.83	-	-	-	-	-
3633.607	55.45 AV	-42.8	22.4	35.05	54	-	-	-	-	-
Azimuth: 111 Height:362 Horz				Margin [dB]:	-18.95	-	-	-	-	-
Horizontal 4000 - 8000MHz										
5244.6	52.38 PK	-53.84	27.3	25.84	54	-	-	-	-	-
Azimuth: 298 Height:228 Horz				Margin [dB]:	-28.16	-	-	-	-	-
5244.6	40.45 AV	-53.84	27.3	13.91	54	-	-	-	-	-
Azimuth: 298 Height:228 Horz				Margin [dB]:	-40.09	-	-	-	-	-
Vertical 1000 - 2000MHz										
1816.8225	67.09 PK	-44.94	21.1	43.25	54	-	-	-	-	-
Azimuth: 253 Height:186 Vert				Margin [dB]:	-10.75	-	-	-	-	-
1816.8225	65.82 AV	-44.94	21.1	41.98	54	-	-	-	-	-
Azimuth: 253 Height:186 Vert				Margin [dB]:	-12.02	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 74 of 141
 Model Number: VRCOP, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRCOP Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Vertical 2000 - 4000MHz										
2725.1975	59.47 PK	-43.53	21.2	37.14	54	-	-	-	-	-
Azimuth: 231 Height:228 Vert			Margin	[dB]:	-16.86	-	-	-	-	-
2725.1975	57.2 AV	-43.53	21.2	34.87	54	-	-	-	-	-
Azimuth: 231 Height:228 Vert			Margin	[dB]:	-19.13	-	-	-	-	-
3633.62	60.64 PK	-42.79	22.2	40.05	54	-	-	-	-	-
Azimuth: 299 Height:372 Vert			Margin	[dB]:	-13.95	-	-	-	-	-
3633.62	57.74 AV	-42.79	22.2	37.15	54	-	-	-	-	-
Azimuth: 299 Height:372 Vert			Margin	[dB]:	-16.85	-	-	-	-	-
Vertical 4000 - 8000MHz										
5795	49.62 PK	-53.61	27.7	23.71	54	-	-	-	-	-
Azimuth: 306 Height:284 Vert			Margin	[dB]:	-30.29	-	-	-	-	-
5795	40.49 AV	-53.61	27.7	14.58	54	-	-	-	-	-
Azimuth: 306 Height:284 Vert			Margin	[dB]:	-39.42	-	-	-	-	-
5823.6	50.42 PK	-53.53	27.7	24.59	54	-	-	-	-	-
Azimuth: 179 Height:376 Vert			Margin	[dB]:	-29.41	-	-	-	-	-
5823.6	40.42 AV	-53.53	27.7	14.59	54	-	-	-	-	-
Azimuth: 179 Height:376 Vert			Margin	[dB]:	-39.41	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Figure 22: Radiated Emissions Graph

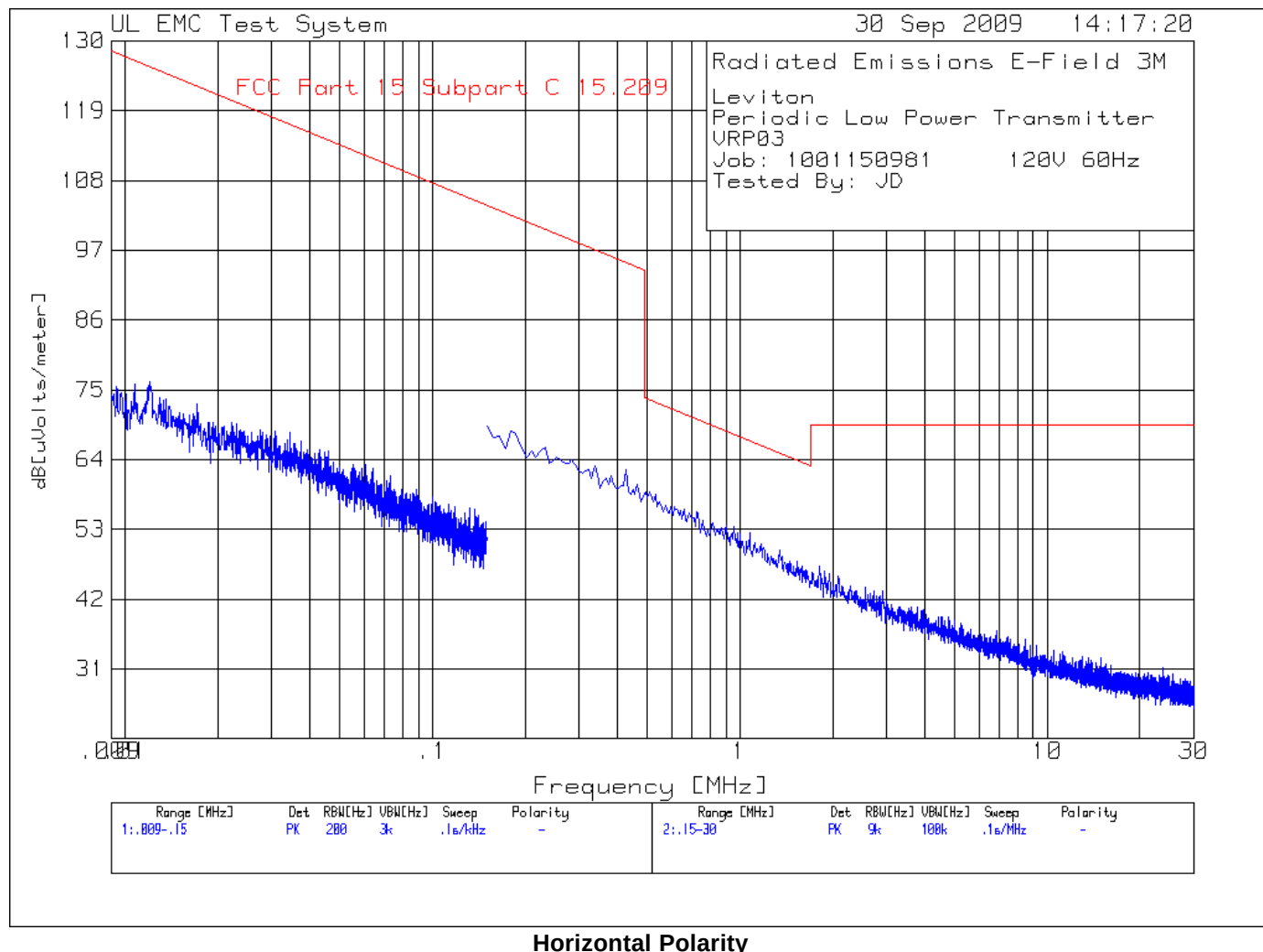
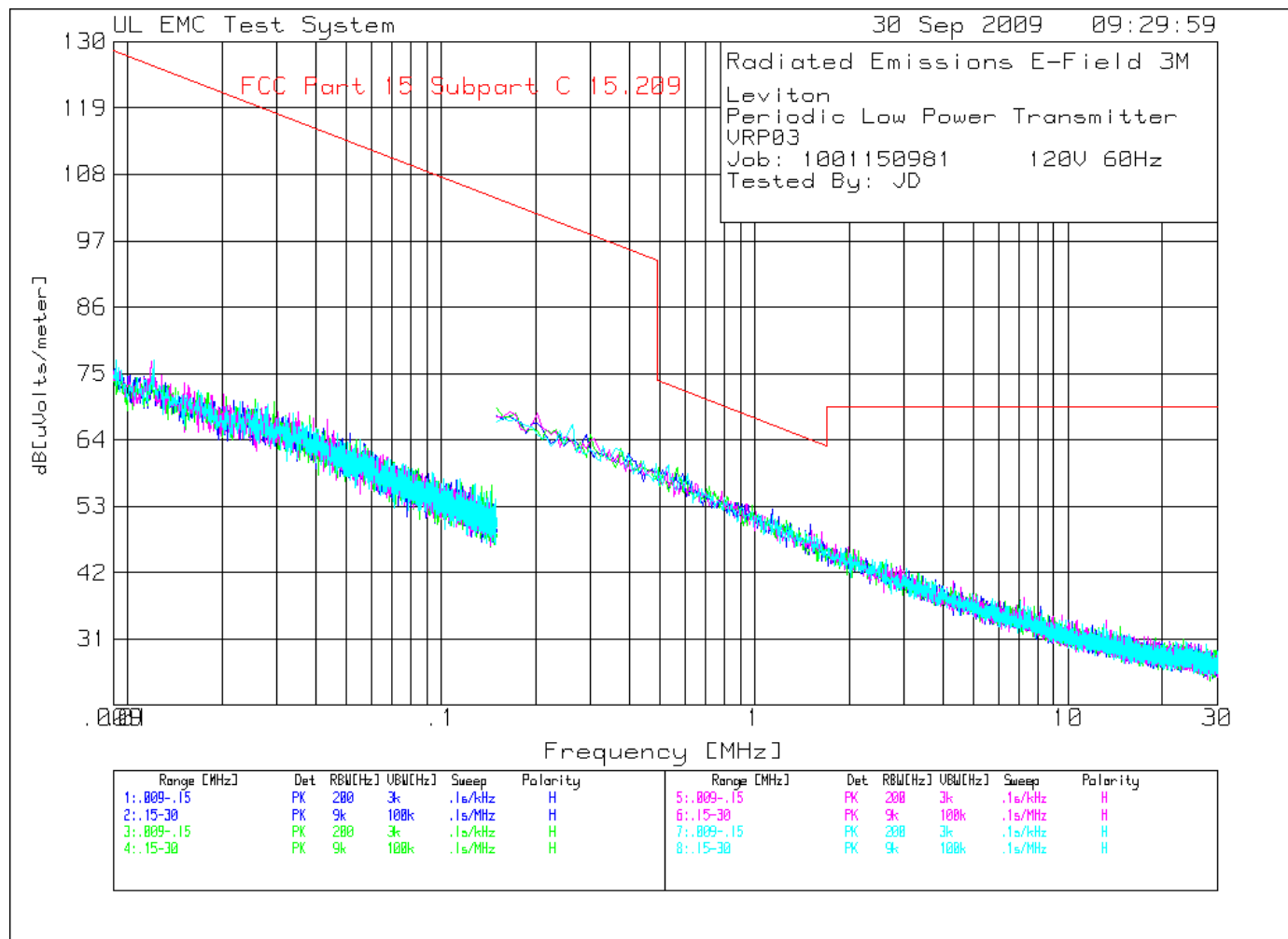


Figure 23: Radiated Emissions Graph



Vertical Polarity

Job Number: 1001150981 File Number: MC15211 Page 77 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 13: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRP03
 Job: 1001150981 120V 60Hz
 Tested By: JD

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	.00911	42.87 pk	.8	32	75.67	128.4	-	-	-	-	-
	Azimuth:1	Height:100	Horz	Margin [dB]		-52.73	-	-	-	-	-
2	.01222	44.61 pk	.1	29.9	74.61	125.8	-	-	-	-	-
	Azimuth:301	Height:100	Horz	Margin [dB]		-51.19	-	-	-	-	-
3	.02869	43.5 pk	0	24.2	67.7	118.4	-	-	-	-	-
	Azimuth:1	Height:100	Horz	Margin [dB]		-50.7	-	-	-	-	-
4	.03433	43.83 pk	0	23.3	67.13	116.9	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-49.77	-	-	-	-	-
5	.04206	43.95 pk	0	22	65.95	115.1	-	-	-	-	-
	Azimuth:354	Height:100	Horz	Margin [dB]		-49.15	-	-	-	-	-
6	.09149	39.82 pk	0	18.5	58.32	108.4	-	-	-	-	-
	Azimuth:151	Height:100	Horz	Margin [dB]		-50.08	-	-	-	-	-
0° .15 - 30MHz -----											
14	.16493	50.39 pk	0	17.6	67.99	103.3	-	-	-	-	-
	Azimuth:214	Height:100	Horz	Margin [dB]		-35.31	-	-	-	-	-
45° .009 - .15MHz -----											
7	.0121	43.76 pk	.1	30	73.86	125.9	-	-	-	-	-
	Azimuth:354	Height:120	Horz	Margin [dB]		-52.04	-	-	-	-	-
8	.01662	44.38 pk	0	27.5	71.88	123.2	-	-	-	-	-
	Azimuth:6	Height:120	Horz	Margin [dB]		-51.32	-	-	-	-	-
9	.02074	45.46 pk	.1	25.6	71.16	121.3	-	-	-	-	-
	Azimuth:284	Height:120	Horz	Margin [dB]		-50.14	-	-	-	-	-
10	.02553	45.94 pk	0	24.8	70.74	119.4	-	-	-	-	-
	Azimuth:354	Height:120	Horz	Margin [dB]		-48.66	-	-	-	-	-
11	.05357	43.79 pk	0	20.3	64.09	113	-	-	-	-	-
	Azimuth:151	Height:120	Horz	Margin [dB]		-48.91	-	-	-	-	-
12	.07434	40.27 pk	0	18.9	59.17	110.2	-	-	-	-	-
	Azimuth:59	Height:120	Horz	Margin [dB]		-51.03	-	-	-	-	-
13	.13087	36.64 pk	0	17.9	54.54	105.3	-	-	-	-	-
	Azimuth:58	Height:120	Horz	Margin [dB]		-50.76	-	-	-	-	-
45° .15 - 30MHz -----											
15	.23211	48.57 pk	0	17.1	65.67	100.3	-	-	-	-	-
	Azimuth:358	Height:120	Horz	Margin [dB]		-34.63	-	-	-	-	-
16	1.52344	31.14 pk	.1	16.7	47.94	63.9	-	-	-	-	-
	Azimuth:298	Height:120	Horz	Margin [dB]		-15.96	-	-	-	-	-
17	7.1665	18.24 pk	.2	17.3	35.74	69.5	-	-	-	-	-
	Azimuth:19	Height:120	Horz	Margin [dB]		-33.76	-	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 78 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 Model: VRP03
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
135°	.15 - 30MHz	-----									
18	.15746	50.05 pk	0	17.6	67.65	103.7	-	-	-	-	-
	Azimuth:356	Height:160	Horz	Margin [dB]		-36.05	-	-	-	-	-
19	.26197	49.5 pk	0	17.1	66.6	99.2	-	-	-	-	-
	Azimuth:6	Height:160	Horz	Margin [dB]		-32.6	-	-	-	-	-
20	1.1353	34.67 pk	.1	16.7	51.47	66.5	-	-	-	-	-
	Azimuth:267	Height:160	Horz	Margin [dB]		-15.03	-	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 79 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

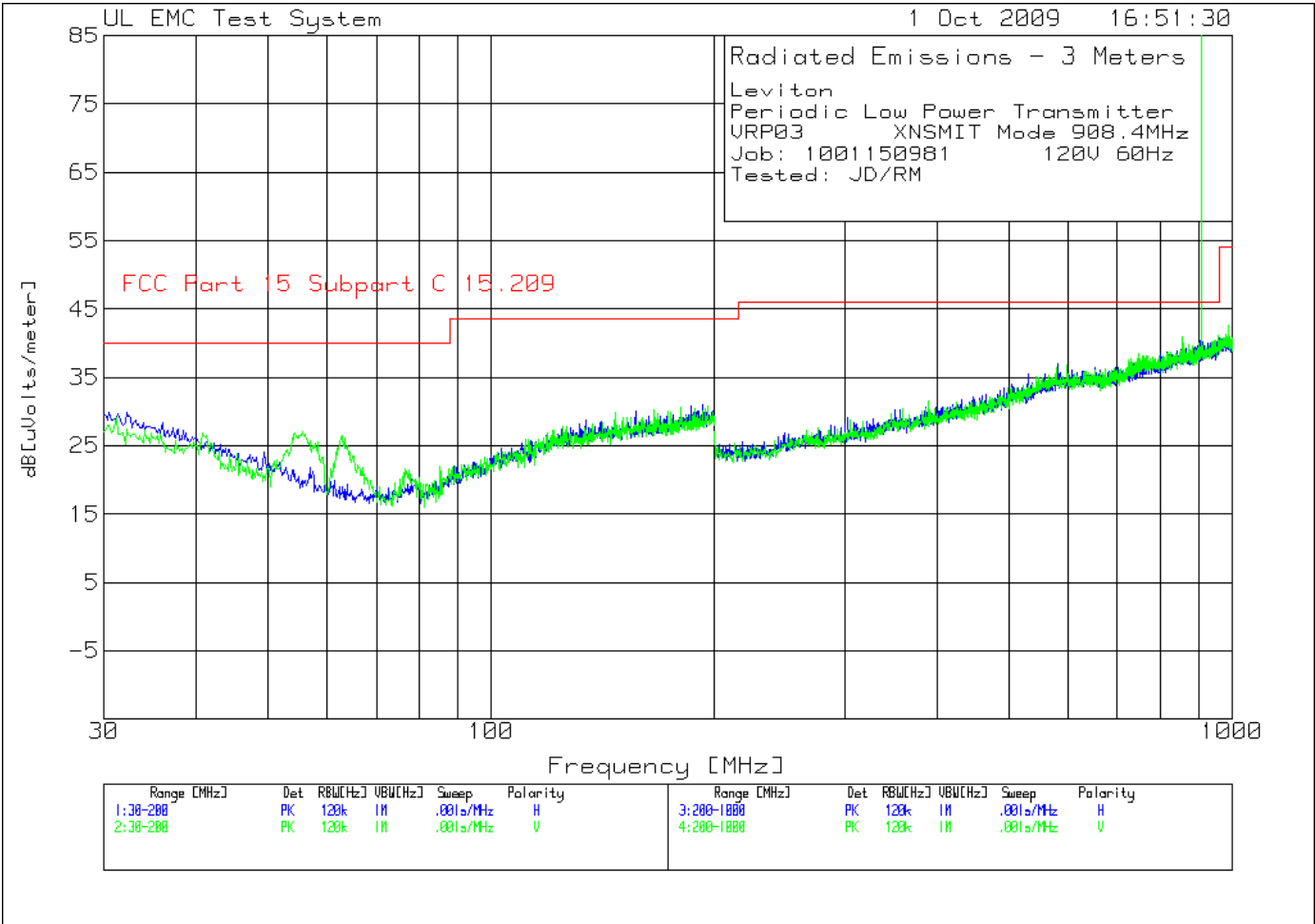
Leviton
 Periodic Low Power Transmitter
 Model: VRP03
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Range 1 .009 - .15MHz -----											
1	.01075	45.41 pk	-.3	30.7	75.81	127	-	-	-	-	-
	Azimuth:209			Margin [dB]		-51.19	-	-	-	-	-
2	.01205	46.01 pk	.2	30	76.21	126	-	-	-	-	-
	Azimuth:284			Margin [dB]		-49.79	-	-	-	-	-
3	.01718	45.62 pk	0	27.2	72.82	122.9	-	-	-	-	-
	Azimuth:354			Margin [dB]		-50.08	-	-	-	-	-
4	.03445	44.97 pk	0	23.3	68.27	116.8	-	-	-	-	-
	Azimuth:59			Margin [dB]		-48.53	-	-	-	-	-
5	.06142	41.63 pk	0	19.9	61.53	111.8	-	-	-	-	-
	Azimuth:6			Margin [dB]		-50.27	-	-	-	-	-
6	.13708	38.29 pk	0	17.8	56.09	104.9	-	-	-	-	-
	Azimuth:358			Margin [dB]		-48.81	-	-	-	-	-
Range 2 .15 - 30MHz -----											
7	.15	51.56 pk	0	17.7	69.26	104.1	-	-	-	-	-
	Azimuth:115			Margin [dB]		-34.84	-	-	-	-	-
8	.28436	46.99 pk	0	17	63.99	98.5	-	-	-	-	-
	Azimuth:176			Margin [dB]		-34.51	-	-	-	-	-
9	.42618	45.17 pk	0	17.2	62.37	95	-	-	-	-	-
	Azimuth:24			Margin [dB]		-32.63	-	-	-	-	-

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 24: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 81 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRP03 XNMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested: JD/RM

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	156.6066	14.74 pk	.8	14.6	30.14	43.5	-	-	-	-	-
	Azimuth:322	Height:300	Horz	Margin [dB]		-13.36	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	55.5255	18.46 pk	.5	8.1	27.06	40	-	-	-	-	-
	Azimuth:357	Height:100	Vert	Margin [dB]		-12.94	-	-	-	-	-
3	62.8428	19.72 pk	.5	6.2	26.42	40	-	-	-	-	-
	Azimuth:69	Height:100	Vert	Margin [dB]		-13.58	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	581.7909	15.63 pk	1.6	19.7	36.93	46	-	-	-	-	-
	Azimuth:232	Height:300	Horz	Margin [dB]		-9.07	-	-	-	-	-
5	908.7544	62.11 pk	2	23.1	87.21	46	94	-	-	-	-
	Azimuth:186	Height:100	Horz	Margin [dB]		41.21	-6.79	-	-	-	-
6	944.3722	14.97 pk	1.9	23.6	40.47	46	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		-5.53	-	-	-	-	-
Vertical 200 - 1000MHz -----											
7	855.928	16.22 pk	1.7	23.1	41.02	46	-	-	-	-	-
	Azimuth:140	Height:300	Vert	Margin [dB]		-4.98	-	-	-	-	-
8	908.7544	63.33 pk	2	23.2	88.53	46	94	-	-	-	-
	Azimuth:53	Height:100	Vert	Margin [dB]		42.53	-5.47	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.249

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

Job Number: 1001150981 File Number: MC15211 Page 82 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

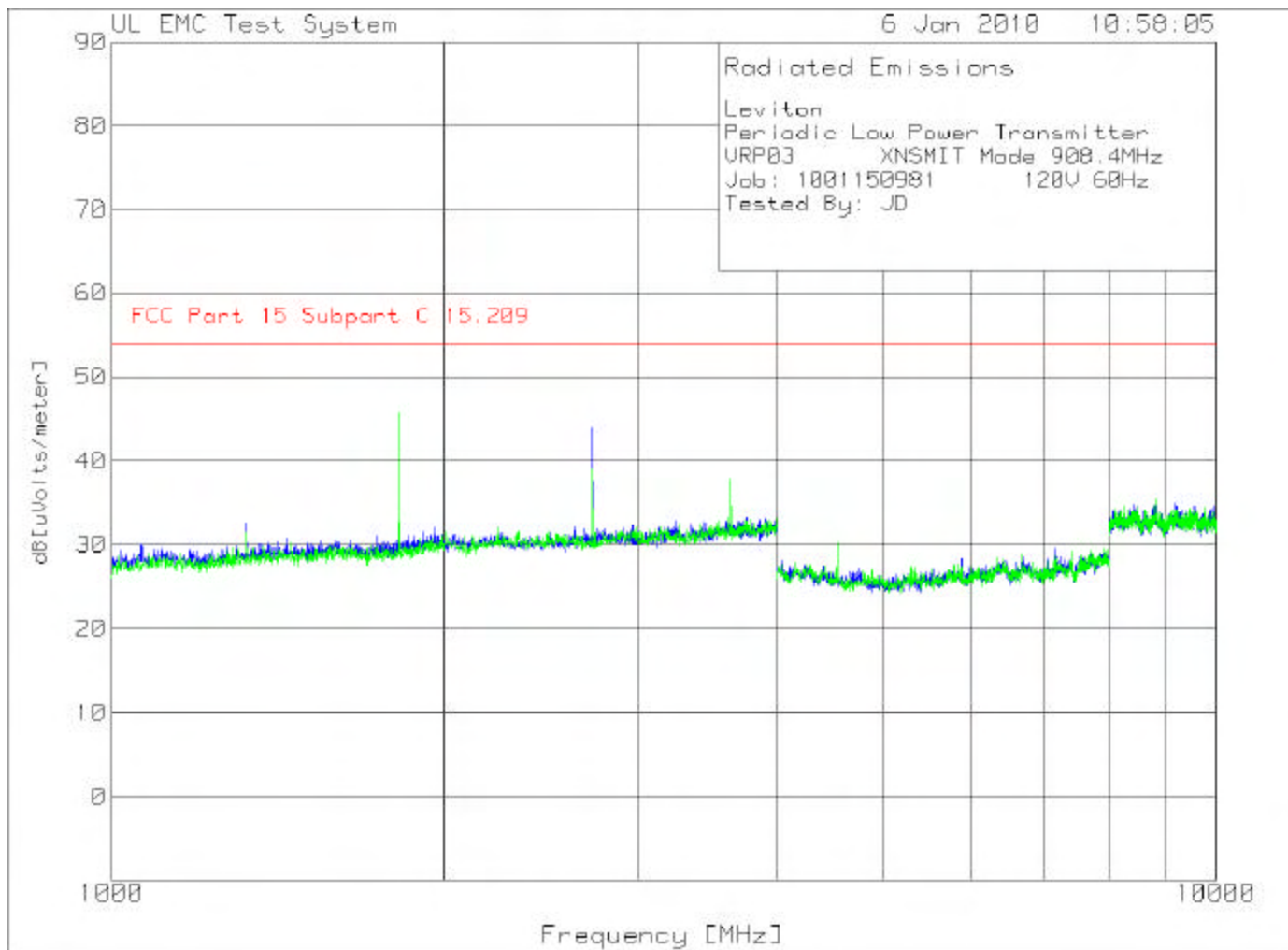
Leviton
 Periodic Low Power Transmitter
 VRP03 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested: JD/RM

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										
908.4003	63.28 pk	2	23.1	88.38	46	94	-	-	-	-
Azimuth: 178 Height:100 Horz					Margin [dB]:	42.38	-5.62	-	-	-
908.4003	63.27 qp	2	23.1	88.37	46	94	-	-	-	-
Azimuth: 178 Height:100 Horz					Margin [dB]:	42.37	-5.63	-	-	-
944.3722	9.09 qp	1.9	23.6	34.59	46	-	-	-	-	-
Azimuth: 198 Height:237 Horz					Margin [dB]:	-11.41	-	-	-	-
Vertical 200 - 1000MHz										
908.4003	66.24 pk	2	23.2	91.44	46	94	-	-	-	-
Azimuth: 167 Height:124 Vert					Margin [dB]:	45.44	-2.56	-	-	-
908.4003	66.22 qp	2	23.2	91.42	46	94	-	-	-	-
Azimuth: 167 Height:124 Vert					Margin [dB]:	45.42	-2.58	-	-	-
855.928	8.84 qp	1.7	23.1	33.64	46	-	-	-	-	-
Azimuth: 40 Height:109 Vert					Margin [dB]:	-12.36	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.249

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

Figure 25: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 84 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRP03 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6
Horizontal 1000 - 2000MHz -----										
1	1817.728	69.08 pk	-44.88	21.1	45.3	54	-	-	-	-
		Height:100 Horz		Margin [dB]		-8.7	-	-	-	-
Horizontal 2000 - 4000MHz -----										
2	2724.095	65.92 pk	-43.52	21.6	44	54	-	-	-	-
		Height:200 Horz		Margin [dB]		-10	-	-	-	-
3	3635.456	57.01 pk	-42.74	22.4	36.67	54	-	-	-	-
		Height:200 Horz		Margin [dB]		-17.33	-	-	-	-
Horizontal 4000 - 8000MHz -----										
4	4542.429	56.96 pk	-54.21	27.4	30.15	54	-	-	-	-
		Height:199 Horz		Margin [dB]		-23.85	-	-	-	-
5	5883.527	54.38 pk	-53.64	27.6	28.34	54	-	-	-	-
		Height:150 Horz		Margin [dB]		-25.66	-	-	-	-
6	7161.398	54.29 pk	-52.66	27.9	29.53	54	-	-	-	-
		Height:150 Horz		Margin [dB]		-24.47	-	-	-	-
Vertical 1000 - 2000MHz -----										
7	1817.728	69.53 pk	-44.88	21.1	45.75	54	-	-	-	-
		Height:100 Vert		Margin [dB]		-8.25	-	-	-	-
Vertical 2000 - 4000MHz -----										
8	2724.095	61.43 pk	-43.52	21.2	39.11	54	-	-	-	-
		Height:200 Vert		Margin [dB]		-14.89	-	-	-	-
9	3635.456	58.43 pk	-42.74	22.2	37.89	54	-	-	-	-
		Height:200 Vert		Margin [dB]		-16.11	-	-	-	-
Vertical 4000 - 8000MHz -----										
10	4542.429	57.24 pk	-54.21	27.2	30.23	54	-	-	-	-
		Height:149 Vert		Margin [dB]		-23.77	-	-	-	-
11	6675.541	53.6 pk	-52.42	27.8	28.98	54	-	-	-	-
		Height:100 Vert		Margin [dB]		-25.02	-	-	-	-
Vertical 8000 - 10000MHz -----										
12	8803.661	53.02 pk	-51.42	33.1	34.7	54	-	-	-	-
		Height:100 Vert		Margin [dB]		-19.3	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 85 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRP03 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 1000 - 2000MHz										
1816.7975	70.8 PK	-44.94	21.1	46.96	54	-	-	-	-	-
Azimuth: 186 Height:293 Horz				Margin [dB]:	-7.04	-	-	-	-	-
1816.7975	69.16 AV	-44.94	21.1	45.32	54	-	-	-	-	-
Azimuth: 186 Height:293 Horz				Margin [dB]:	-8.68	-	-	-	-	-
Horizontal 2000 - 4000MHz										
2725.1988	69.12 PK	-43.53	21.7	47.29	54	-	-	-	-	-
Azimuth: 179 Height:365 Horz				Margin [dB]:	-6.71	-	-	-	-	-
2725.1988	67.78 AV	-43.53	21.7	45.95	54	-	-	-	-	-
Azimuth: 179 Height:365 Horz				Margin [dB]:	-8.05	-	-	-	-	-
3633.6038	59.11 PK	-42.8	22.4	38.71	54	-	-	-	-	-
Azimuth: 154 Height:275 Horz				Margin [dB]:	-15.29	-	-	-	-	-
3633.6038	54.24 AV	-42.8	22.4	33.84	54	-	-	-	-	-
Azimuth: 154 Height:275 Horz				Margin [dB]:	-20.16	-	-	-	-	-
Horizontal 4000 - 8000MHz										
4541.9963	59.45 PK	-54.21	27.4	32.64	54	-	-	-	-	-
Azimuth: 139 Height:318 Horz				Margin [dB]:	-21.36	-	-	-	-	-
4541.9963	53.69 AV	-54.21	27.4	26.88	54	-	-	-	-	-
Azimuth: 139 Height:318 Horz				Margin [dB]:	-27.12	-	-	-	-	-
Vertical 1000 - 2000MHz										
1816.8013	68.2 PK	-44.94	21.1	44.36	54	-	-	-	-	-
Azimuth: 17 Height:328 Vert				Margin [dB]:	-9.64	-	-	-	-	-
1816.8013	66.57 AV	-44.94	21.1	42.73	54	-	-	-	-	-
Azimuth: 17 Height:328 Vert				Margin [dB]:	-11.27	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 86 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

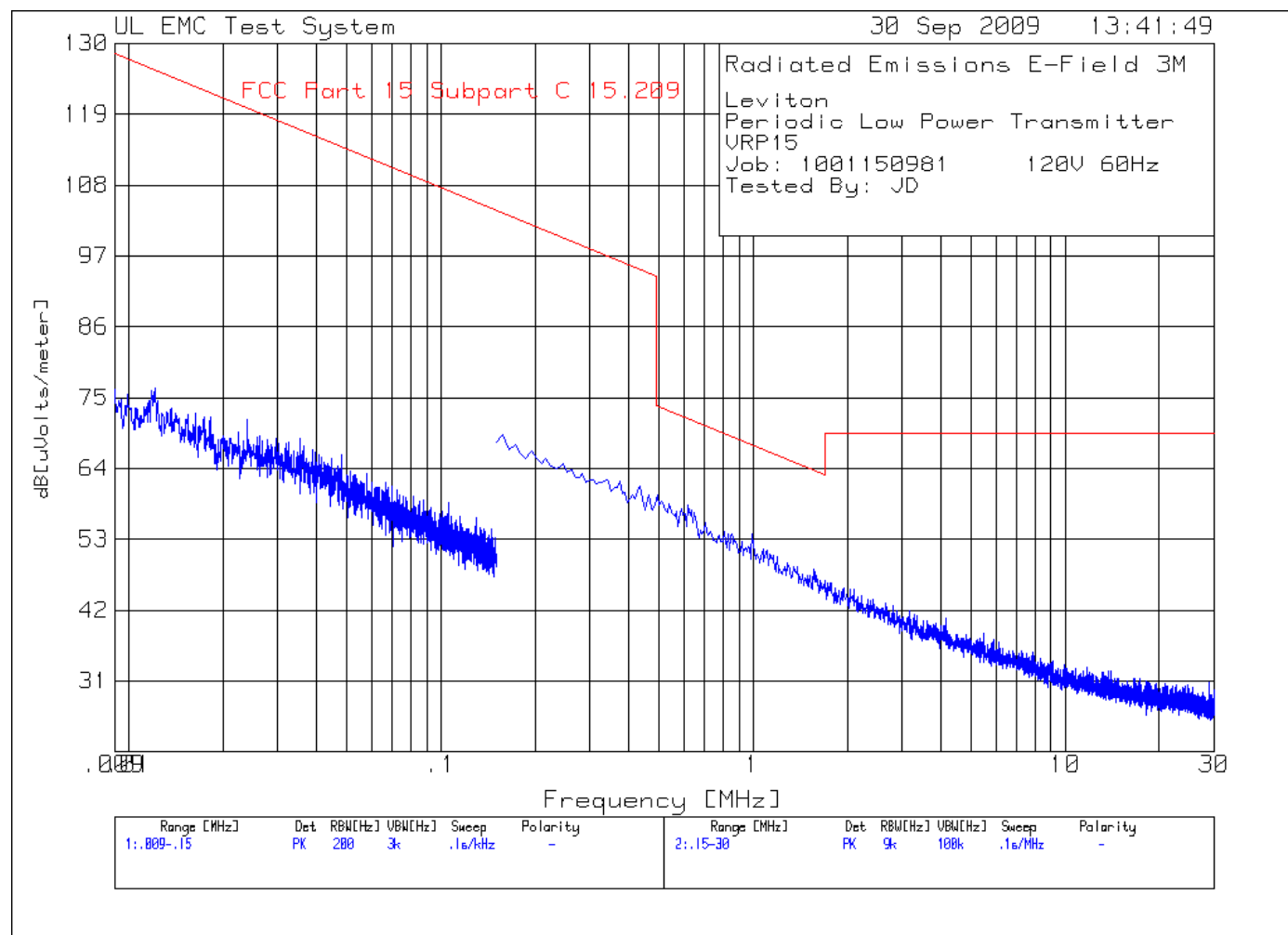
Leviton
 Periodic Low Power Transmitter
 VRP03 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Vertical 2000 - 4000MHz										
2725.2	65.32 PK	-43.53	21.2	42.99	54	-	-	-	-	-
Azimuth: 132	Height:394	Vert	Margin	[dB]:	-11.01	-	-	-	-	-
2725.2	62.76 AV	-43.53	21.2	40.43	54	-	-	-	-	-
Azimuth: 132	Height:394	Vert	Margin	[dB]:	-13.57	-	-	-	-	-
3633.6025	60.27 PK	-42.8	22.2	39.67	54	-	-	-	-	-
Azimuth: 227	Height:350	Vert	Margin	[dB]:	-14.33	-	-	-	-	-
3633.6025	55.89 AV	-42.8	22.2	35.29	54	-	-	-	-	-
Azimuth: 227	Height:350	Vert	Margin	[dB]:	-18.71	-	-	-	-	-
Vertical 4000 - 8000MHz										
4541.9975	61.58 PK	-54.21	27.2	34.57	54	-	-	-	-	-
Azimuth: 192	Height:327	Vert	Margin	[dB]:	-19.43	-	-	-	-	-
4541.9975	57.62 AV	-54.21	27.2	30.61	54	-	-	-	-	-
Azimuth: 192	Height:327	Vert	Margin	[dB]:	-23.39	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

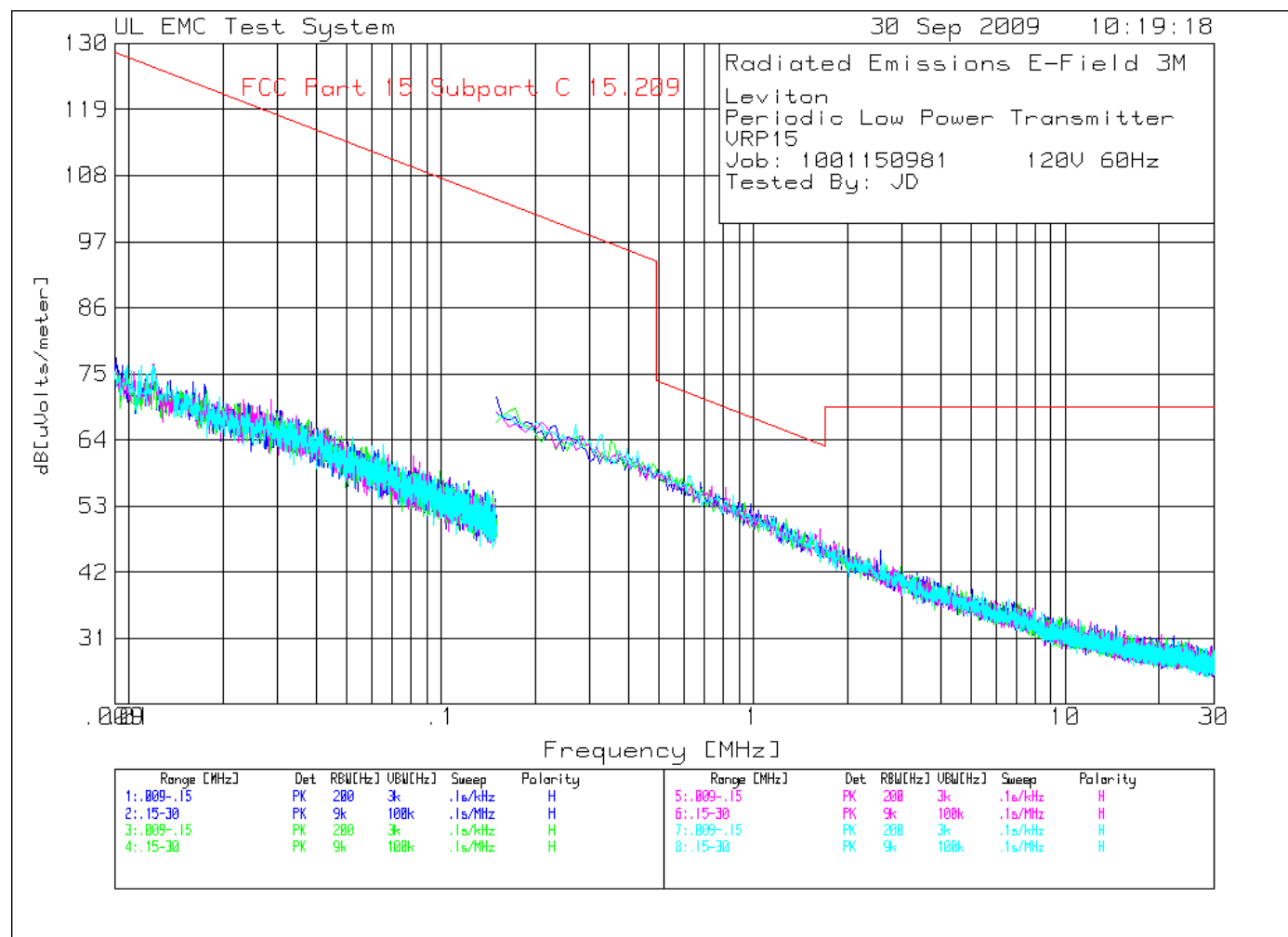
PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 26: Radiated Emissions Graph



Horizontal Polarity

Figure 27: Radiated Emissions Graph



Vertical Polarity

Job Number: 1001150981 File Number: MC15211 Page 89 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 14: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRP15
 Job: 1001150981 120V 60Hz
 Tested By: JD

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	.00911	44.86 pk	.8	32	77.66	128.4	-	-	-	-	-
	Azimuth:151	Height:100	Horz	Margin [dB]		-50.74	-	-	-	-	-
2	.01148	44.84 pk	-.1	30.3	75.04	126.4	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-51.36	-	-	-	-	-
3	.01611	45.84 pk	.1	27.8	73.74	123.4	-	-	-	-	-
	Azimuth:354	Height:100	Horz	Margin [dB]		-49.66	-	-	-	-	-
4	.01752	46.34 pk	0	27	73.34	122.7	-	-	-	-	-
	Azimuth:354	Height:100	Horz	Margin [dB]		-49.36	-	-	-	-	-
5	.02965	44.76 pk	0	24.1	68.86	118.1	-	-	-	-	-
	Azimuth:151	Height:100	Horz	Margin [dB]		-49.24	-	-	-	-	-
6	.07863	40.18 pk	0	18.7	58.88	109.7	-	-	-	-	-
	Azimuth:152	Height:100	Horz	Margin [dB]		-50.82	-	-	-	-	-
45° .15 - 30MHz -----											
7	.17239	51.86 pk	0	17.5	69.36	102.9	-	-	-	-	-
	Azimuth:85	Height:121	Horz	Margin [dB]		-33.54	-	-	-	-	-
8	.17239	51.86 pk	0	17.5	69.36	102.9	-	-	-	-	-
	Azimuth:85	Height:121	Horz	Margin [dB]		-33.54	-	-	-	-	-
9	.22464	48.19 pk	0	17.2	65.39	100.6	-	-	-	-	-
	Azimuth:176	Height:121	Horz	Margin [dB]		-35.21	-	-	-	-	-
10	.47843	43.02 pk	0	17.1	60.12	94	-	-	-	-	-
	Azimuth:6	Height:121	Horz	Margin [dB]		-33.88	-	-	-	-	-
11	2.44156	26.35 pk	.1	16.7	43.15	69.5	-	-	-	-	-
	Azimuth:85	Height:121	Horz	Margin [dB]		-26.35	-	-	-	-	-
12	1.47119	31.3 pk	.1	16.7	48.1	64.3	-	-	-	-	-
	Azimuth:176	Height:121	Horz	Margin [dB]		-16.2	-	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 90 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

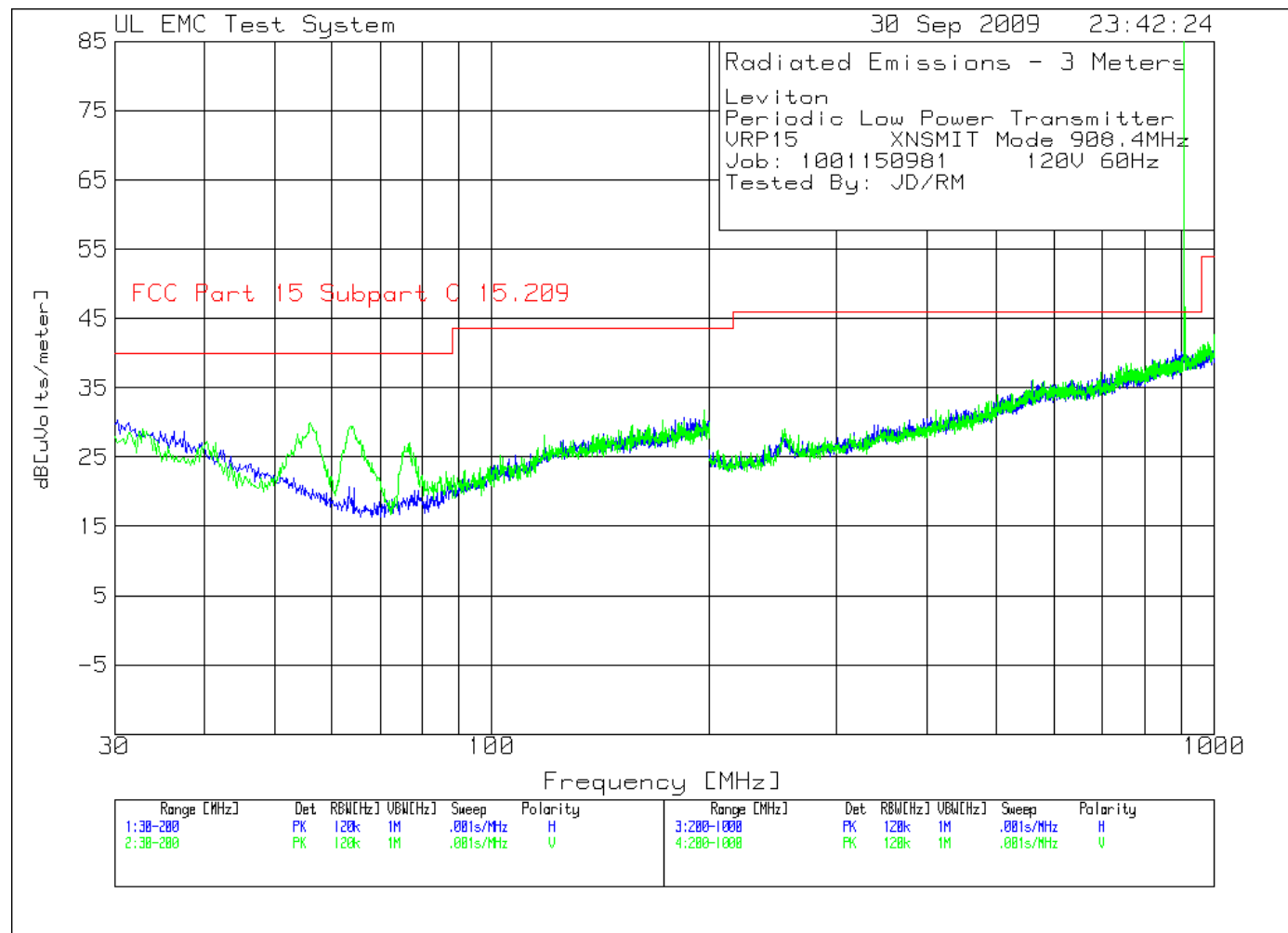
Leviton
 Periodic Low Power Transmitter
 Model: VRP15
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6
=====										
Range 1 .009 - .15MHz -----										
1	.01216	46.56 pk	.1	29.9	76.56	125.9	-	-	-	-
	Azimuth:1			Margin [dB]		-49.34	-	-	-	-
2	.01825	45.43 pk	0	26.6	72.03	122.4	-	-	-	-
	Azimuth:226			Margin [dB]		-50.37	-	-	-	-
3	.02395	46.51 pk	0	25	71.51	120	-	-	-	-
	Azimuth:301			Margin [dB]		-48.49	-	-	-	-
4	.03625	44.51 pk	0	23	67.51	116.4	-	-	-	-
	Azimuth:226			Margin [dB]		-48.89	-	-	-	-
5	.04804	45.21 pk	0	20.9	66.11	114	-	-	-	-
	Azimuth:283			Margin [dB]		-47.89	-	-	-	-
Range 2 .15 - 30MHz -----										
6	.15746	51.57 pk	0	17.6	69.17	103.7	-	-	-	-
	Azimuth:275			Margin [dB]		-34.53	-	-	-	-
7	.50829	41.75 pk	0	17.1	58.85	73.5	-	-	-	-
	Azimuth:305			Margin [dB]		-14.65	-	-	-	-
8	1.29951	32.02 pk	.1	16.7	48.82	65.3	-	-	-	-
	Azimuth:123			Margin [dB]		-16.48	-	-	-	-
9	.99347	37.13 pk	0	16.7	53.83	67.7	-	-	-	-
	Azimuth:93			Margin [dB]		-13.87	-	-	-	-

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 28: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 92 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 20: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 VRP15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	37.4875	12.67 pk	.4	15.6	28.67	40	-	-	-	-	-
	Azimuth:289	Height:200	Horz	Margin [dB]	-11.33		-	-	-	-	-
Vertical 30 - 200MHz -----											
2	56.036	21.31 pk	.5	8.1	29.91	40	-	-	-	-	-
	Azimuth:357	Height:100	Vert	Margin [dB]	-10.09		-	-	-	-	-
3	64.2042	22.93 pk	.5	6	29.43	40	-	-	-	-	-
	Azimuth:322	Height:100	Vert	Margin [dB]	-10.57		-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	882.3412	15.74 pk	1.8	23	40.54	46	-	-	-	-	-
	Azimuth:55	Height:300	Horz	Margin [dB]	-5.46		-	-	-	-	-
5	908.7544	60.19 pk	2	23.1	85.29	46	94	-	-	-	-
	Azimuth:315	Height:100	Horz	Margin [dB]	39.29	-8.71	-	-	-	-	-
Vertical 200 - 1000MHz -----											
6	254.027	15.24 pk	1	12.9	29.14	46	-	-	-	-	-
	Azimuth:99	Height:100	Vert	Margin [dB]	-16.86		-	-	-	-	-
7	908.7544	63.75 pk	2	23.2	88.95	46	94	-	-	-	-
	Azimuth:56	Height:200	Vert	Margin [dB]	42.95	-5.05	-	-	-	-	-
8	954.3772	14.6 pk	1.9	24.3	40.8	46	-	-	-	-	-
	Azimuth:316	Height:300	Vert	Margin [dB]	-5.2		-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C 15.249

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

Job Number: 1001150981 File Number: MC15211 Page 93 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

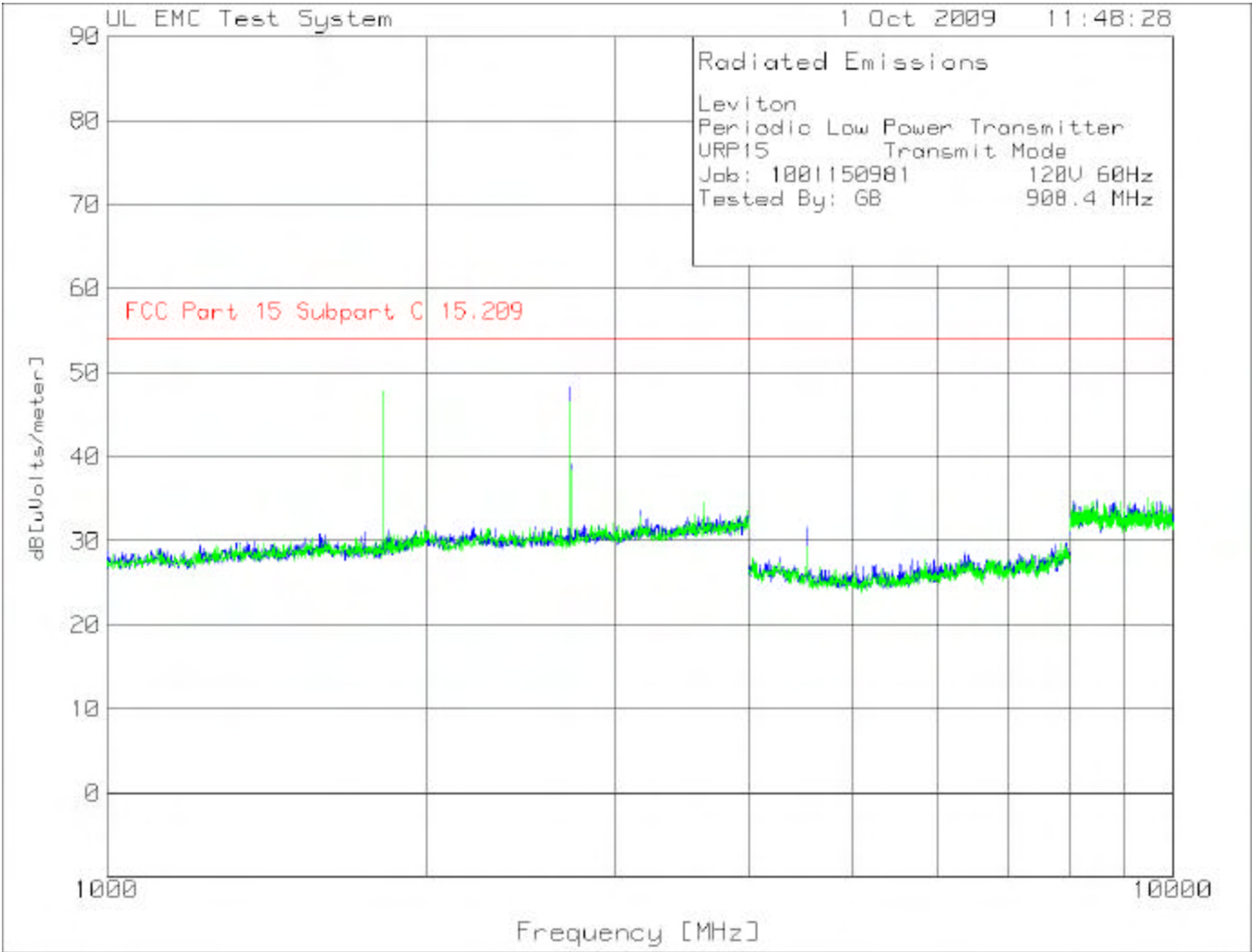
Leviton
 Periodic Low Power Transmitter
 VRP15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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										
908.4053	64.75 pk	2	23.1	89.85	46	94	-	-	-	-
Azimuth: 95	Height:146	Horz	Margin [dB]:	43.85	-4.15	-	-	-	-	-
908.4053	64.95 qp	2	23.1	90.05	46	94	-	-	-	-
Azimuth: 95	Height:146	Horz	Margin [dB]:	44.05	-3.95	-	-	-	-	-
882.3412	8.94 qp	1.8	23	33.74	46	-	-	-	-	-
Azimuth: 0	Height:106	Horz	Margin [dB]:	-12.26	-	-	-	-	-	-
Vertical 200 - 1000MHz										
908.4033	65.44 pk	2	23.2	90.64	46	94	-	-	-	-
Azimuth: 217	Height:184	Vert	Margin [dB]:	44.64	-3.36	-	-	-	-	-
908.4033	65.29 qp	2	23.2	90.49	46	94	-	-	-	-
Azimuth: 217	Height:184	Vert	Margin [dB]:	44.49	-3.51	-	-	-	-	-
954.3772	8.94 qp	1.9	24.3	35.14	46	-	-	-	-	-
Azimuth: 77	Height:105	Vert	Margin [dB]:	-10.86	-	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209
 LIMIT 2: FCC Part 15 Subpart C 15.249

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

Figure 29: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 95 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 21: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 VRP15 Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Horizontal 1000 - 2000MHz -----											
1	1817.728	70.44 pk	-44.88	21.1	46.66	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-7.34	-	-	-	-	-
Horizontal 2000 - 4000MHz -----											
2	2724.095	70.17 pk	-43.52	21.6	48.25	54	-	-	-	-	-
		Height:200	Horz	Margin [dB]		-5.75	-	-	-	-	-
3	3163.546	54.88 pk	-43.16	21.9	33.62	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-20.38	-	-	-	-	-
Horizontal 4000 - 8000MHz -----											
4	4542.429	58.41 pk	-54.21	27.4	31.6	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-22.4	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
5	1817.728	71.7 pk	-44.88	21.1	47.92	54	-	-	-	-	-
		Height:200	Vert	Margin [dB]		-6.08	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
6	2724.095	68.94 pk	-43.52	21.2	46.62	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-7.38	-	-	-	-	-
7	3635.456	55.12 pk	-42.74	22.2	34.58	54	-	-	-	-	-
		Height:199	Vert	Margin [dB]		-19.42	-	-	-	-	-
Vertical 4000 - 8000MHz -----											
8	4542.429	56.41 pk	-54.21	27.2	29.4	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-24.6	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 96 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRP15 Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 1000 - 2000MHz										
1816.795	69.37 PK	-44.94	21.1	45.53	54	-	-	-	-	-
Azimuth: 314 Height:101 Horz				Margin [dB]:	-8.47	-	-	-	-	-
1816.795	66.82 AV	-44.94	21.1	42.98	54	-	-	-	-	-
Azimuth: 314 Height:101 Horz				Margin [dB]:	-11.02	-	-	-	-	-
Horizontal 2000 - 4000MHz										
2725.21	70.52 PK	-43.53	21.7	48.69	54	-	-	-	-	-
Azimuth: 209 Height:346 Horz				Margin [dB]:	-5.31	-	-	-	-	-
2725.21	69.77 AV	-43.53	21.7	47.94	54	-	-	-	-	-
Azimuth: 209 Height:346 Horz				Margin [dB]:	-6.06	-	-	-	-	-
3160.5	52.04 PK	-43.24	21.9	30.7	54	-	-	-	-	-
Azimuth: 85 Height:373 Horz				Margin [dB]:	-23.3	-	-	-	-	-
3160.5	40.76 AV	-43.24	21.9	19.42	54	-	-	-	-	-
Azimuth: 85 Height:373 Horz				Margin [dB]:	-34.58	-	-	-	-	-
Horizontal 4000 - 8000MHz										
4542.4	52.85 PK	-54.21	27.4	26.04	54	-	-	-	-	-
Azimuth: 25 Height:167 Horz				Margin [dB]:	-27.96	-	-	-	-	-
4542.4	40.96 AV	-54.21	27.4	14.15	54	-	-	-	-	-
Azimuth: 25 Height:167 Horz				Margin [dB]:	-39.85	-	-	-	-	-
Vertical 1000 - 2000MHz										
1816.81	71.81 PK	-44.94	21.1	47.97	54	-	-	-	-	-
Azimuth: 255 Height:192 Vert				Margin [dB]:	-6.03	-	-	-	-	-
1816.81	70.72 AV	-44.94	21.1	46.88	54	-	-	-	-	-
Azimuth: 255 Height:192 Vert				Margin [dB]:	-7.12	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 97 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

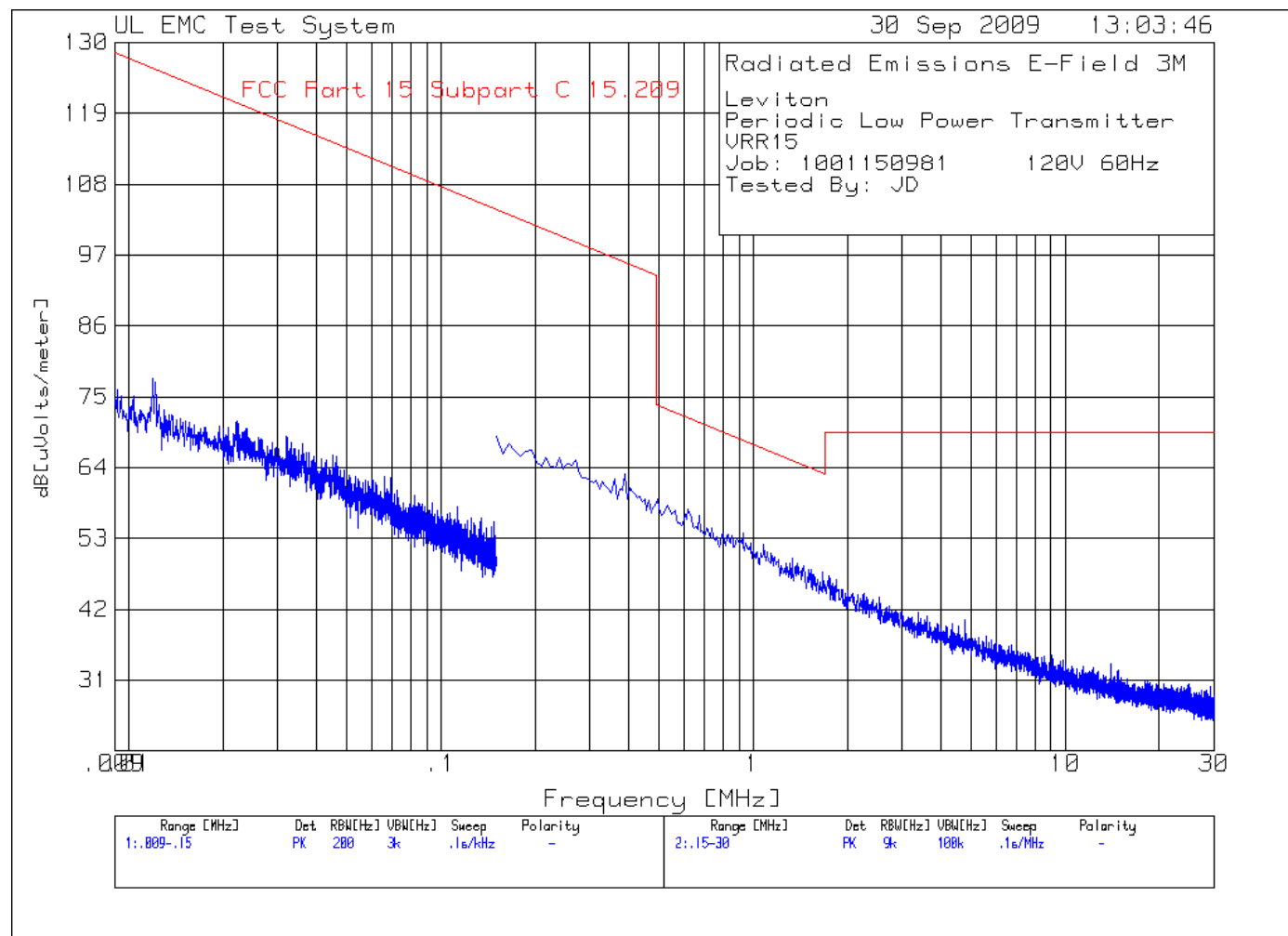
Leviton
 Periodic Low Power Transmitter
 VRP15 Transmit Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB 908.4 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Vertical 2000 - 4000MHz										
2725.2063	70.53 PK	-43.53	21.2	48.2	54	-	-	-	-	-
Azimuth: 315 Height:166 Vert Margin [dB]:						-	-	-	-	-
2725.2063	69.55 AV	-43.53	21.2	47.22	54	-	-	-	-	-
Azimuth: 315 Height:166 Vert Margin [dB]:						-	-	-	-	-
3633.585	58.65 PK	-42.8	22.2	38.05	54	-	-	-	-	-
Azimuth: 277 Height:170 Vert Margin [dB]:						-	-	-	-	-
3633.585	53.57 AV	-42.8	22.2	32.97	54	-	-	-	-	-
Azimuth: 277 Height:170 Vert Margin [dB]:						-	-	-	-	-
Vertical 4000 - 8000MHz										
4542.01	55.5 PK	-54.21	27.2	28.49	54	-	-	-	-	-
Azimuth: 186 Height:213 Vert Margin [dB]:						-	-	-	-	-
4542.01	48.03 AV	-54.21	27.2	21.02	54	-	-	-	-	-
Azimuth: 186 Height:213 Vert Margin [dB]:						-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

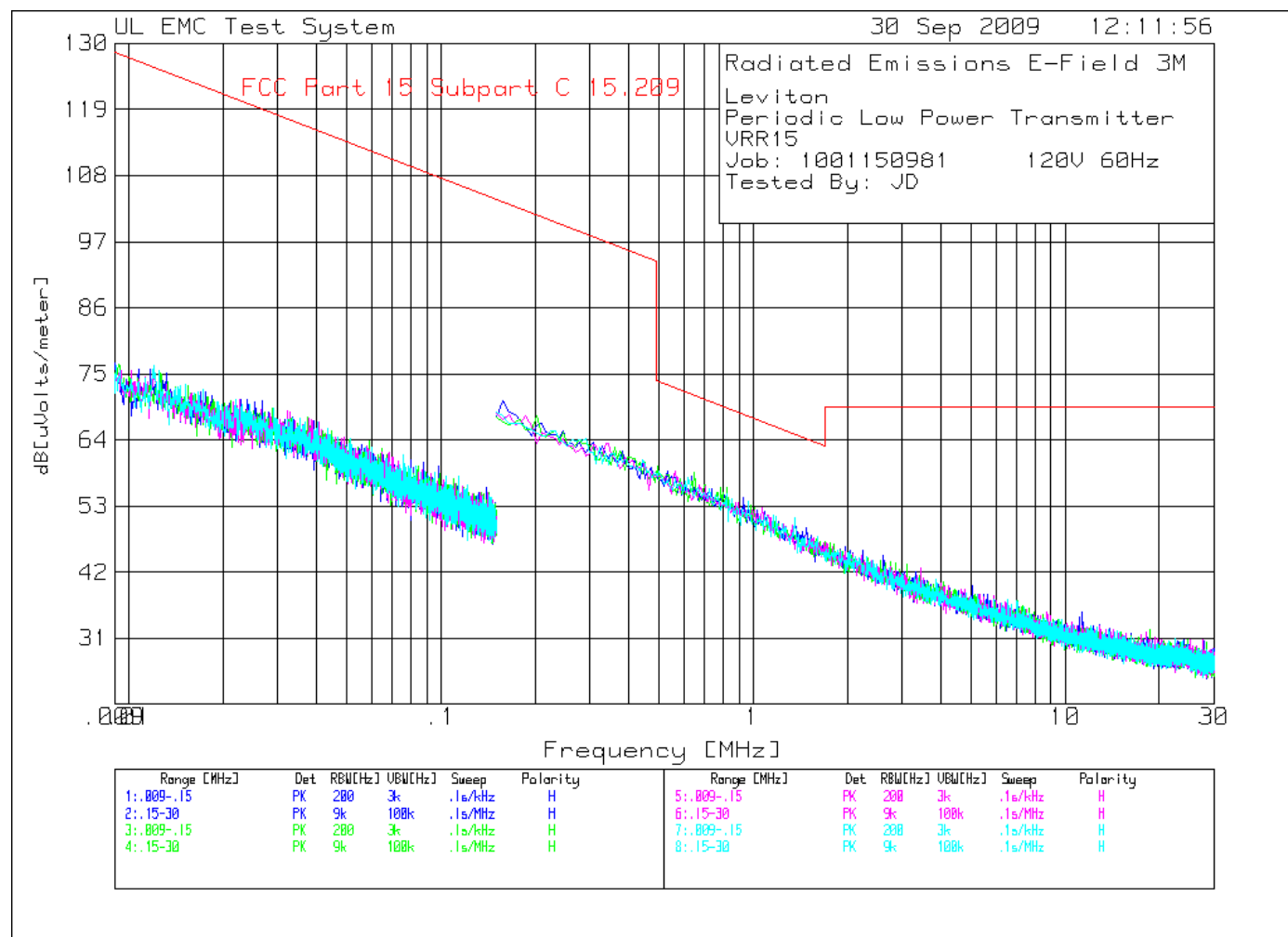
PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 30: Radiated Emissions Graphs



Horizontal Polarity

Figure 31: Radiated Emissions Graphs



Vertical Polarity

Job Number: 1001150981 File Number: MC15211 Page 100 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 15: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRR15
 Job: 1001150981 120V 60Hz
 Tested By: JD

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
0° .009 - .15MHz -----											
1	.009	43.82 pk	.9	32.1	76.82	128.5	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-51.68	-	-	-	-	-
2	.01177	45.39 pk	.2	30.1	75.69	126.2	-	-	-	-	-
	Azimuth:354	Height:100	Horz	Margin [dB]		-50.51	-	-	-	-	-
3	.01701	44.73 pk	0	27.3	72.03	123	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-50.97	-	-	-	-	-
4	.02677	45.95 pk	0	24.5	70.45	119	-	-	-	-	-
	Azimuth:1	Height:100	Horz	Margin [dB]		-48.55	-	-	-	-	-
5	.03913	44.79 pk	0	22.5	67.29	115.7	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-48.41	-	-	-	-	-
6	.06283	41.76 pk	0	19.7	61.46	111.6	-	-	-	-	-
	Azimuth:6	Height:100	Horz	Margin [dB]		-50.14	-	-	-	-	-
7	.11304	38.19 pk	0	18.1	56.29	106.5	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		-50.21	-	-	-	-	-
135° .15 - 30MHz -----											
8	.15	50.94 pk	0	17.7	68.64	104.1	-	-	-	-	-
	Azimuth:115	Height:160	Horz	Margin [dB]		-35.46	-	-	-	-	-
9	.18732	48.77 pk	0	17.3	66.07	102.1	-	-	-	-	-
	Azimuth:6	Height:160	Horz	Margin [dB]		-36.03	-	-	-	-	-
10	.50083	41.75 pk	0	17.1	58.85	73.6	-	-	-	-	-
	Azimuth:176	Height:160	Horz	Margin [dB]		-14.75	-	-	-	-	-
11	.66504	39.22 pk	0	16.9	56.12	71.1	-	-	-	-	-
	Azimuth:6	Height:160	Horz	Margin [dB]		-14.98	-	-	-	-	-
12	2.41917	27.15 pk	.1	16.7	43.95	69.5	-	-	-	-	-
	Azimuth:115	Height:160	Horz	Margin [dB]		-25.55	-	-	-	-	-

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

Job Number: 1001150981 File Number: MC15211 Page 101 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

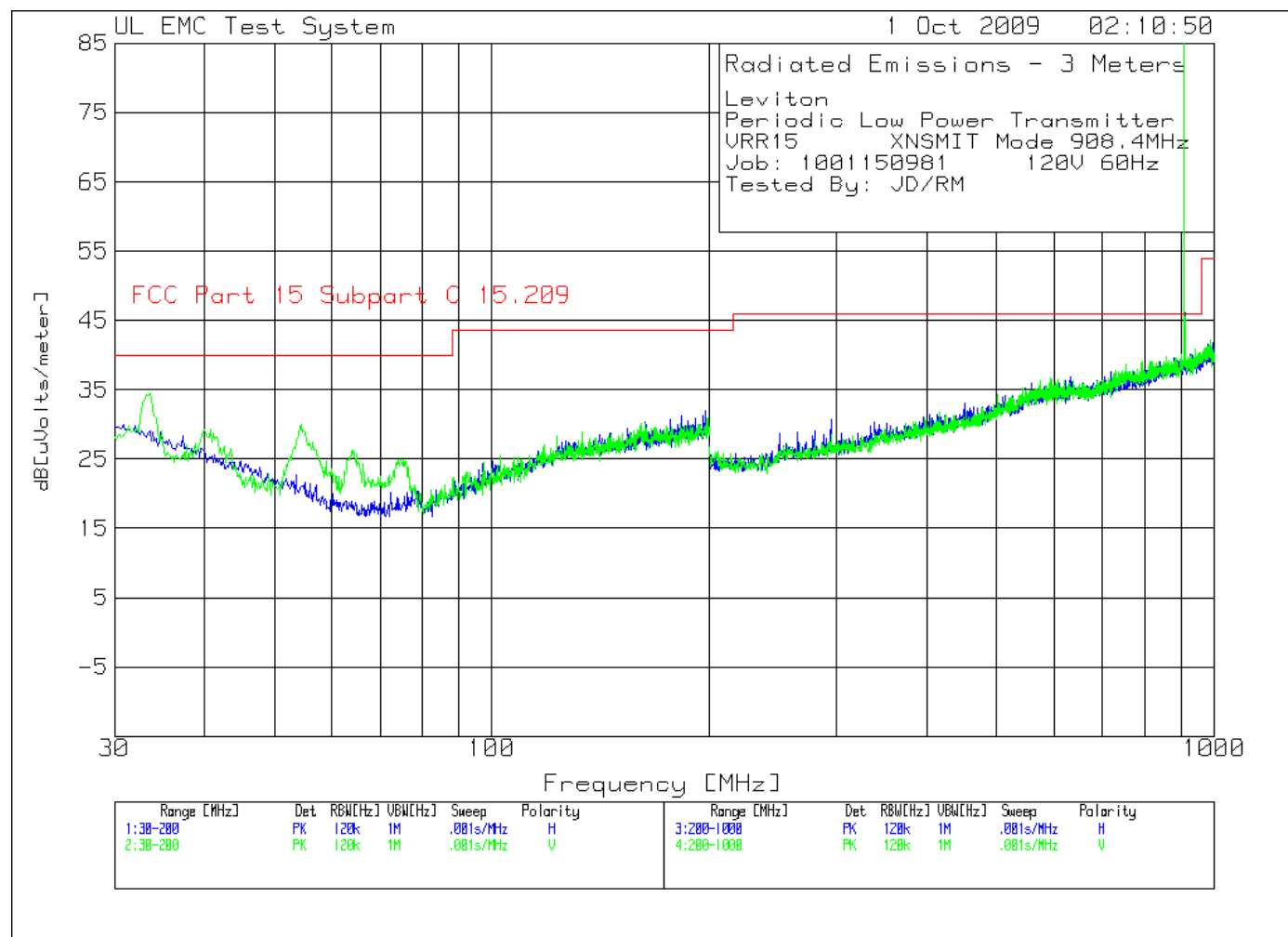
Leviton
 Periodic Low Power Transmitter
 Model: VRR15
 Job: 1001150981 120V 60Hz
 Tested By: JD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Range 1 .009 - .15MHz -----											
1	.01199	47.63 pk	.2	30	77.83	126	-	-	-	-	-
	Azimuth:76			Margin [dB]		-48.17	-	-	-	-	-
2	.02215	45.89 pk	0	25.3	71.19	120.7	-	-	-	-	-
	Azimuth:353			Margin [dB]		-49.51	-	-	-	-	-
3	.03202	45.12 pk	0	23.7	68.82	117.5	-	-	-	-	-
	Azimuth:1			Margin [dB]		-48.68	-	-	-	-	-
4	.06937	43.37 pk	0	19.1	62.47	110.8	-	-	-	-	-
	Azimuth:226			Margin [dB]		-48.33	-	-	-	-	-
Range 2 .15 - 30MHz -----											
5	.15	51.07 pk	0	17.7	68.77	104.1	-	-	-	-	-
	Azimuth:214			Margin [dB]		-35.33	-	-	-	-	-
6	.23957	48.47 pk	0	17.1	65.57	100	-	-	-	-	-
	Azimuth:356			Margin [dB]		-34.43	-	-	-	-	-
7	.27689	46.08 pk	0	17	63.08	98.8	-	-	-	-	-
	Azimuth:92			Margin [dB]		-35.72	-	-	-	-	-
8	.62026	40.53 pk	0	17	57.53	71.8	-	-	-	-	-
	Azimuth:283			Margin [dB]		-14.27	-	-	-	-	-

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 Graphs



Job Number: 1001150981 File Number: MC15211 Page 103 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 22: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 VRR15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	37.3173	12.39 pk	.4	15.6	28.39	40	-	-	-	-	-
	Azimuth:287	Height:300	Horz	Margin [dB]	-11.61		-	-	-	-	-
Vertical 30 - 200MHz -----											
2	33.5736	18.38 pk	.4	15.8	34.58	40	-	-	-	-	-
	Azimuth:343	Height:101	Vert	Margin [dB]	-5.42		-	-	-	-	-
3	54.5045	20.94 pk	.5	8.5	29.94	40	-	-	-	-	-
	Azimuth:357	Height:101	Vert	Margin [dB]	-10.06		-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	294.4472	15.82 pk	1.1	13.8	30.72	46	-	-	-	-	-
	Azimuth:97	Height:101	Horz	Margin [dB]	-15.28		-	-	-	-	-
5	908.5543	62.25 pk	2	23.1	87.35	46	94	-	-	-	-
	Azimuth:315	Height:101	Horz	Margin [dB]	41.35	-6.65	-	-	-	-	-
6	942.3712	15.3 pk	1.9	23.5	40.7	46	-	-	-	-	-
	Azimuth:228	Height:300	Horz	Margin [dB]	-5.3		-	-	-	-	-
Vertical 200 - 1000MHz -----											
7	908.7544	65.67 pk	2	23.2	90.87	46	94	-	-	-	-
	Azimuth:56	Height:100	Vert	Margin [dB]	44.87	-3.13	-	-	-	-	-
8	941.5708	15.25 pk	1.9	23.8	40.95	46	-	-	-	-	-
	Azimuth:10	Height:300	Vert	Margin [dB]	-5.05		-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C 15.249

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

Job Number: 1001150981 File Number: MC15211 Page 104 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRR15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

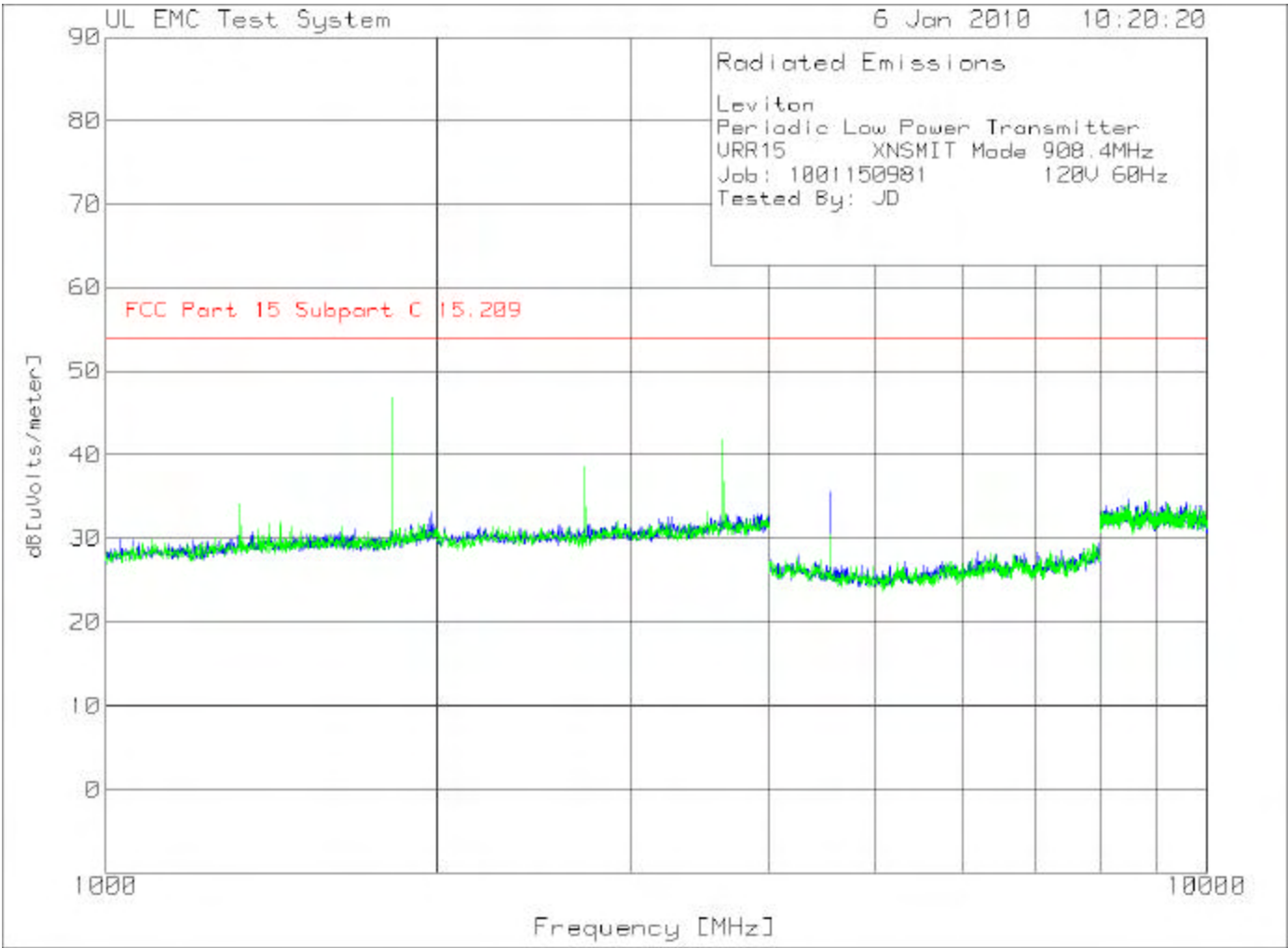
Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Vertical 30 - 200MHz										
33.7343	15.78 qp	.4	15.7	31.88	40	-	-	-	-	-
Azimuth: 80	Height:103	Vert	Margin [dB]:	-8.12	-	-	-	-	-	-
Horizontal 200 - 1000MHz										
908.4053	64.63 pk	2	23.1	89.73	46	94	-	-	-	-
Azimuth: 191	Height:101	Horz	Margin [dB]:	43.73	-4.27	-	-	-	-	-
908.4053	64.57 qp	2	23.1	89.67	46	94	-	-	-	-
Azimuth: 191	Height:101	Horz	Margin [dB]:	43.67	-4.33	-	-	-	-	-
942.3712	9.09 qp	1.9	23.5	34.49	46	-	-	-	-	-
Azimuth: 210	Height:108	Horz	Margin [dB]:	-11.51	-	-	-	-	-	-
Vertical 200 - 1000MHz										
908.4048	67.77 pk	2	23.2	92.97	46	94	-	-	-	-
Azimuth: 66	Height:115	Vert	Margin [dB]:	46.97	-1.03	-	-	-	-	-
908.4048	67.8 qp	2	23.2	93	46	94	-	-	-	-
Azimuth: 66	Height:115	Vert	Margin [dB]:	47	-1.0	-	-	-	-	-
941.5708	9.09 qp	1.9	23.8	34.79	46	-	-	-	-	-
Azimuth: 4	Height:102	Vert	Margin [dB]:	-11.21	-	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C 15.249

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

Figure 33: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 106 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 23: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 VRR15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Horizontal 1000 - 2000MHz -----											
1	1817.728	64.22 pk	-44.88	21.1	40.44	54	-	-	-	-	-
		Height:200	Horz	Margin [dB]		-13.56	-	-	-	-	-
Horizontal 2000 - 4000MHz -----											
2	2724.095	56.61 pk	-43.52	21.6	34.69	54	-	-	-	-	-
		Height:200	Horz	Margin [dB]		-19.31	-	-	-	-	-
3	3635.456	60.81 pk	-42.74	22.4	40.47	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		-13.53	-	-	-	-	-
Horizontal 4000 - 8000MHz -----											
4	4542.429	62.34 pk	-54.21	27.4	35.53	54	-	-	-	-	-
		Height:200	Horz	Margin [dB]		-18.47	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
5	1817.728	70.76 pk	-44.88	21.1	46.98	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-7.02	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
6	2724.095	60.88 pk	-43.52	21.2	38.56	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-15.44	-	-	-	-	-
7	3635.456	62.41 pk	-42.74	22.2	41.87	54	-	-	-	-	-
		Height:200	Vert	Margin [dB]		-12.13	-	-	-	-	-
Vertical 4000 - 8000MHz -----											
8	4542.429	57.58 pk	-54.21	27.2	30.57	54	-	-	-	-	-
		Height:199	Vert	Margin [dB]		-23.43	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

Job Number: 1001150981 File Number: MC15211 Page 107 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRR15 XNMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Horizontal 1000 - 2000MHz										
1817.81	68.87 PK	-44.94	21.1	45.03	54	-	-	-	-	-
Azimuth: 191 Height:264 Horz				Margin [dB]:	-8.97	-	-	-	-	-
1817.81	67.32 AV	-44.94	21.1	43.48	54	-	-	-	-	-
Azimuth: 191 Height:264 Horz				Margin [dB]:	-10.52	-	-	-	-	-
Horizontal 2000 - 4000MHz										
2725.21	61.08 PK	-43.53	21.7	39.25	54	-	-	-	-	-
Azimuth: 228 Height:394 Horz				Margin [dB]:	-14.75	-	-	-	-	-
2725.21	56.99 AV	-43.53	21.7	35.16	54	-	-	-	-	-
Azimuth: 228 Height:394 Horz				Margin [dB]:	-18.84	-	-	-	-	-
3633.615	63.77 PK	-42.8	22.4	43.37	54	-	-	-	-	-
Azimuth: 120 Height:274 Horz				Margin [dB]:	-10.63	-	-	-	-	-
3633.615	61.28 AV	-42.8	22.4	40.88	54	-	-	-	-	-
Azimuth: 120 Height:274 Horz				Margin [dB]:	-13.12	-	-	-	-	-
Horizontal 4000 - 8000MHz										
4542.02	64.02 PK	-54.21	27.4	37.21	54	-	-	-	-	-
Azimuth: 152 Height:285 Horz				Margin [dB]:	-16.79	-	-	-	-	-
4542.02	61.53 AV	-54.21	27.4	34.72	54	-	-	-	-	-
Azimuth: 152 Height:285 Horz				Margin [dB]:	-19.28	-	-	-	-	-
Vertical 1000 - 2000MHz										
1816.8075	69.83 PK	-44.94	21.1	45.99	54	-	-	-	-	-
Azimuth: 171 Height:289 Vert				Margin [dB]:	-8.01	-	-	-	-	-
1817.8075	68.47 AV	-44.94	21.1	44.63	54	-	-	-	-	-
Azimuth: 171 Height:289 Vert				Margin [dB]:	-9.37	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 108 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Leviton
 Periodic Low Power Transmitter
 VRR15 XNSMIT Mode 908.4MHz
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====										
Vertical 2000 - 4000MHz										
2725.2163	59.36 PK	-43.53	21.2	37.03	54	-	-	-	-	-
Azimuth: 120 Height:299 Vert Margin [dB]:						-	-	-	-	-
2725.2163	54.68 AV	-43.53	21.2	32.35	54	-	-	-	-	-
Azimuth: 120 Height:299 Vert Margin [dB]:						-	-	-	-	-
3633.6163	64.59 PK	-42.8	22.2	43.99	54	-	-	-	-	-
Azimuth: 214 Height:254 Vert Margin [dB]:						-	-	-	-	-
3633.6163	62.48 AV	-42.8	22.2	41.88	54	-	-	-	-	-
Azimuth: 214 Height:254 Vert Margin [dB]:						-	-	-	-	-
Vertical 4000 - 8000MHz										
4542.02	60.43 PK	-54.21	27.2	33.42	54	-	-	-	-	-
Azimuth: 147 Height:208 Vert Margin [dB]:						-	-	-	-	-
4542.02	56.07 AV	-54.21	27.2	29.06	54	-	-	-	-	-
Azimuth: 147 Height:208 Vert Margin [dB]:						-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

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

Job Number: 1001150981 File Number: MC15211 Page 109 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

4.4 Test Conditions and Results – RADIATED EMISSIONS (Unintentional)

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4:2003 Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Basic Standard	FCC Part 15, Subpart B, 15.109	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	(3 meter measurement distance)
Fully configured sample scanned over the following frequency range	1GHz – 5GHz	(3 meter measurement distance)
Limits Class B		
Frequency (MHz)	Limit (dBμV/m)	
	Quasi-Peak	Average
30-88	40	-
88-216	43.5	-
216-960	46	-
960-1000	54	-
1000-5000	-	54
Supplementary information: None		

Table 16 Radiated Emissions EUT Configuration Settings

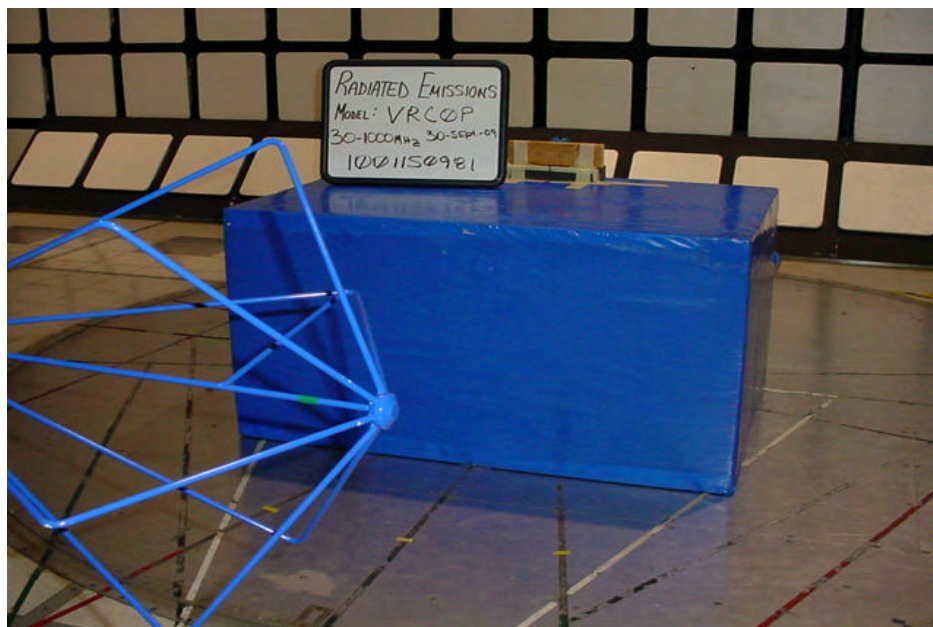
Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	2
Supplementary information: None		

Job Number: 1001150981 File Number: MC15211 Page 110 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 17 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	54
Log-P Antenna	Schaffner	UPA6109	44067
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
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
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Horn Antenna (2-4 GHz)	ETS	3161-02	48107
Horn Antenna (4-8 GHz)	ETS	3161-03	48106
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251
RF Switch / Preamp Fixture	UL	BOMS1	50249
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268

Figure 42: Test setup for Radiated Emissions



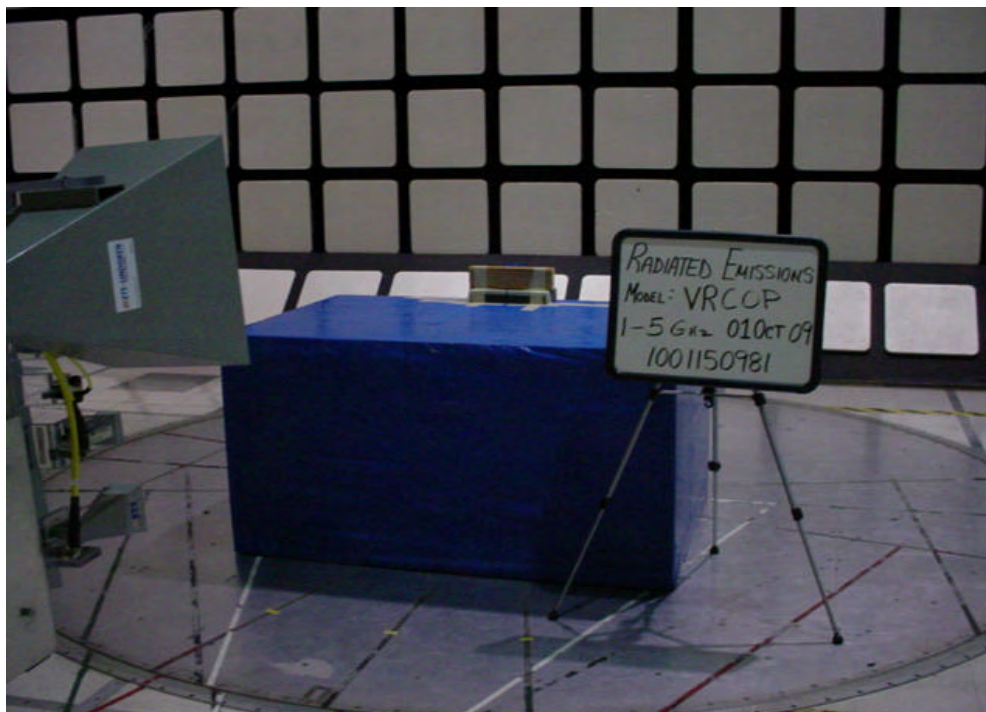
VRC0P Front View 30MHz to 1000MHz

Figure 43: Test setup for Radiated Emissions



VRC0P Rear View 30MHz to 1000MHz

Figure 44: Test setup for Radiated Emissions



VRC0P Front View 1GHz to 5GHz

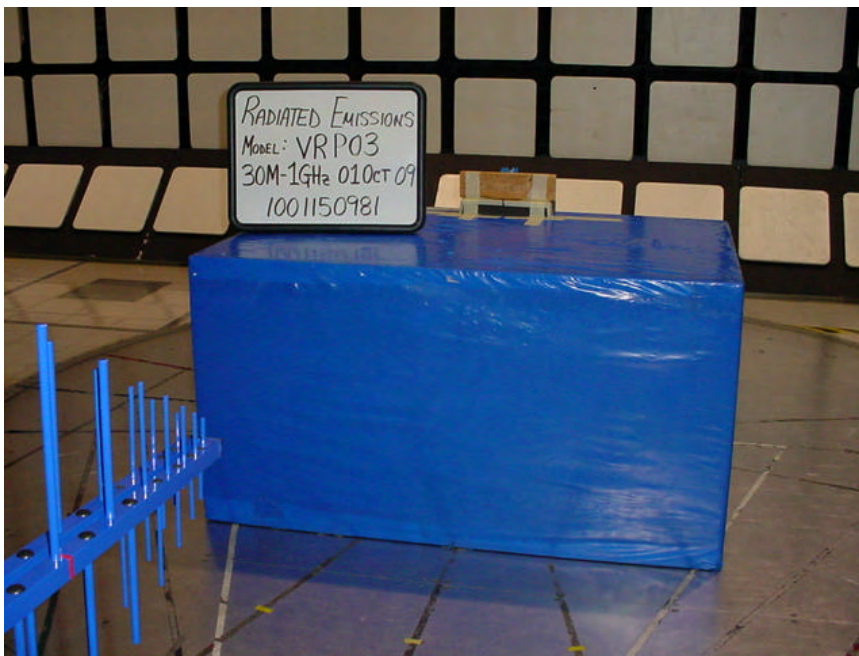
Figure 45: Test setup for Radiated Emissions



Job Number: 1001150981 File Number: MC15211 Page 113 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

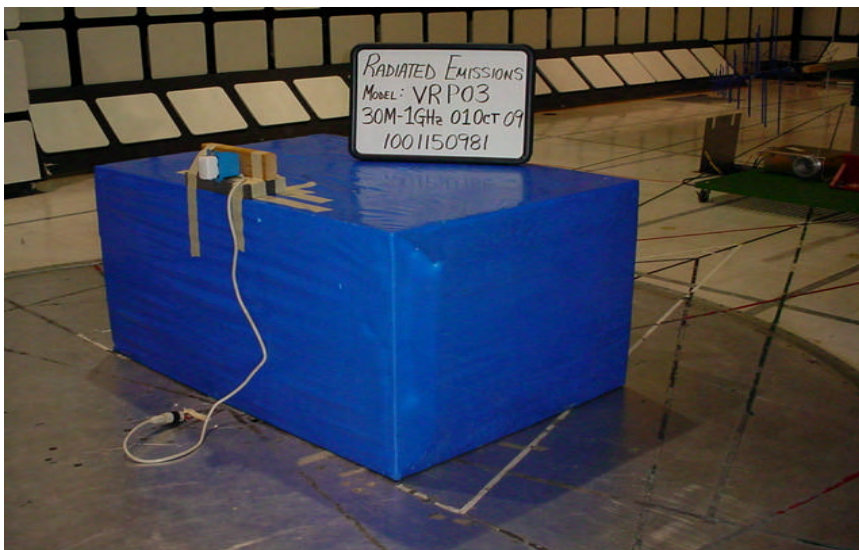
VRC0P Rear View 1GHz to 5GHz

Figure 46: Test setup for Radiated Emissions



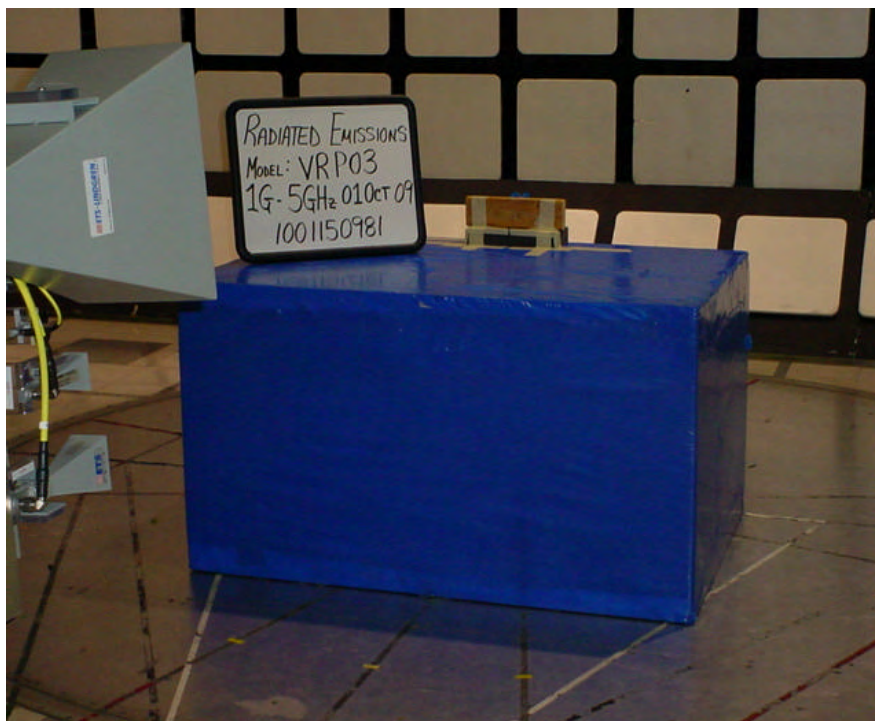
VRP03 Front View 30MHz to 1000MHz

Figure 47: Test setup for Radiated Emissions



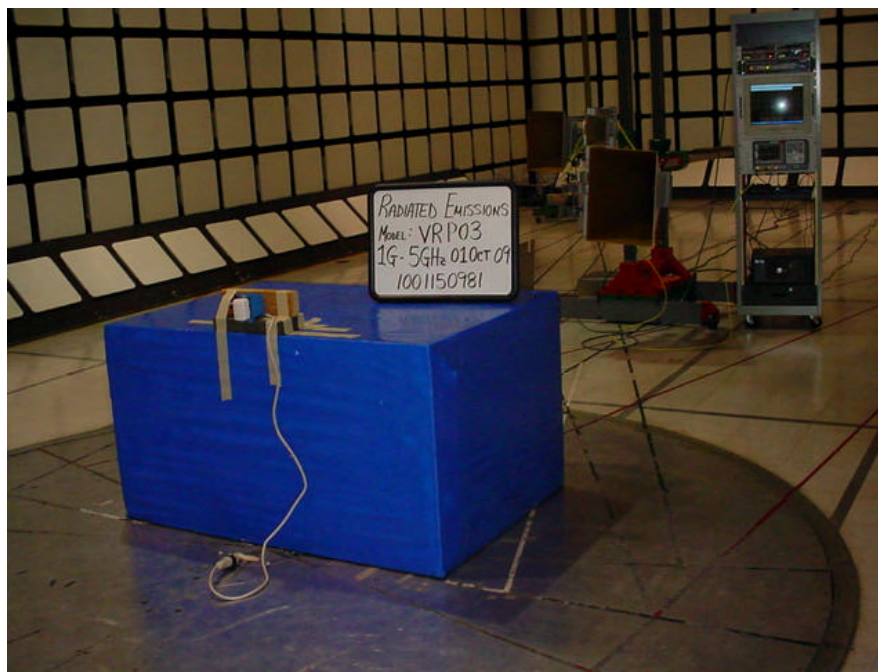
VRP03 Rear View 30MHz to 1000MHz

Figure 48: Test setup for Radiated Emissions



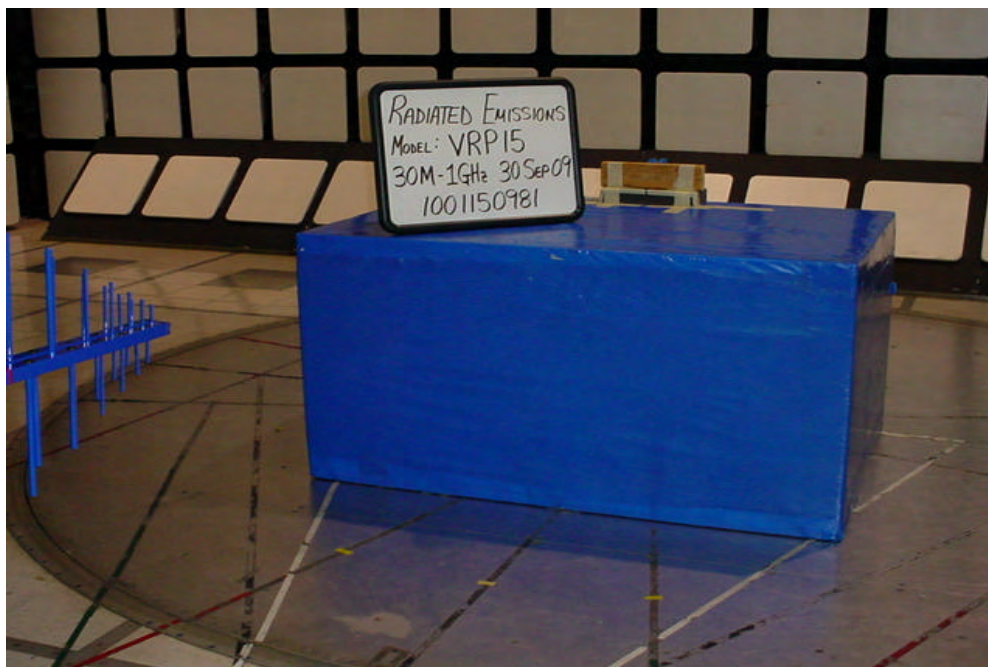
VRP03 Front View 1GHz to 5GHz

Figure 49: Test setup for Radiated Emissions



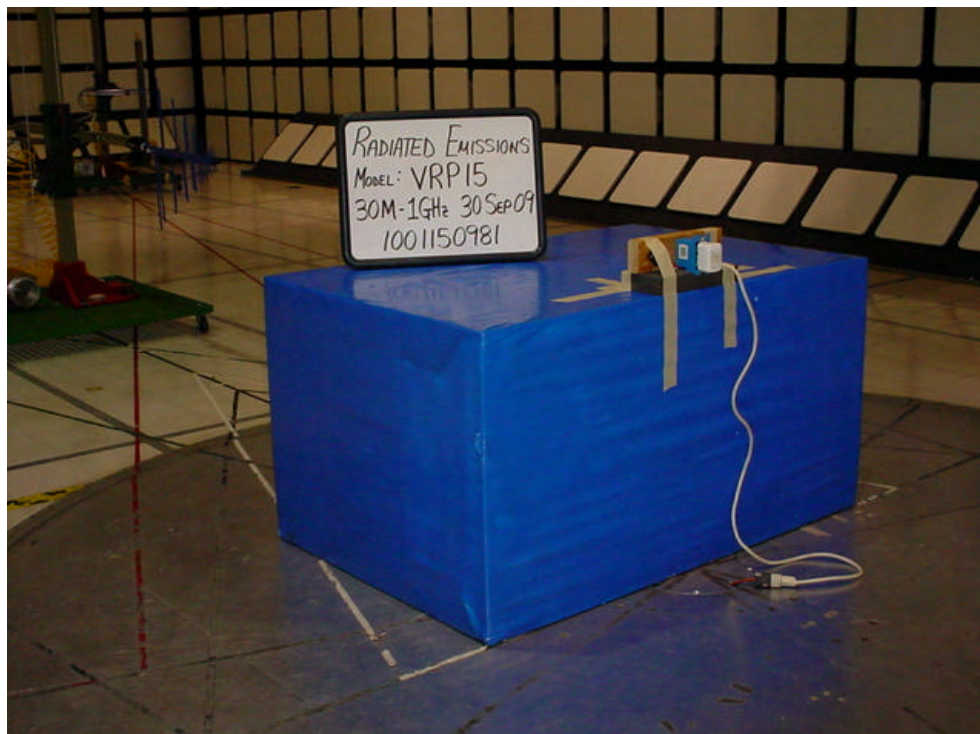
VRP03 Rear View 1GHz to 5GHz

Figure 50: Test setup for Radiated Emissions



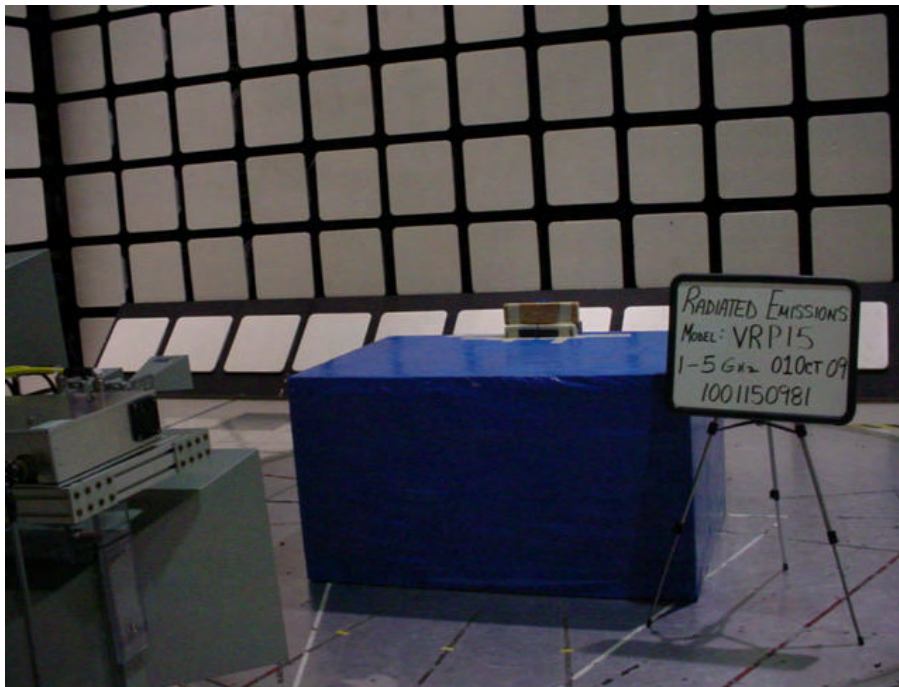
VRP15 Front View 30MHz to 1000MHz

Figure 51: Test setup for Radiated Emissions



VRP15 Rear View 30MHz to 1000MHz

Figure 52: Test setup for Radiated Emissions



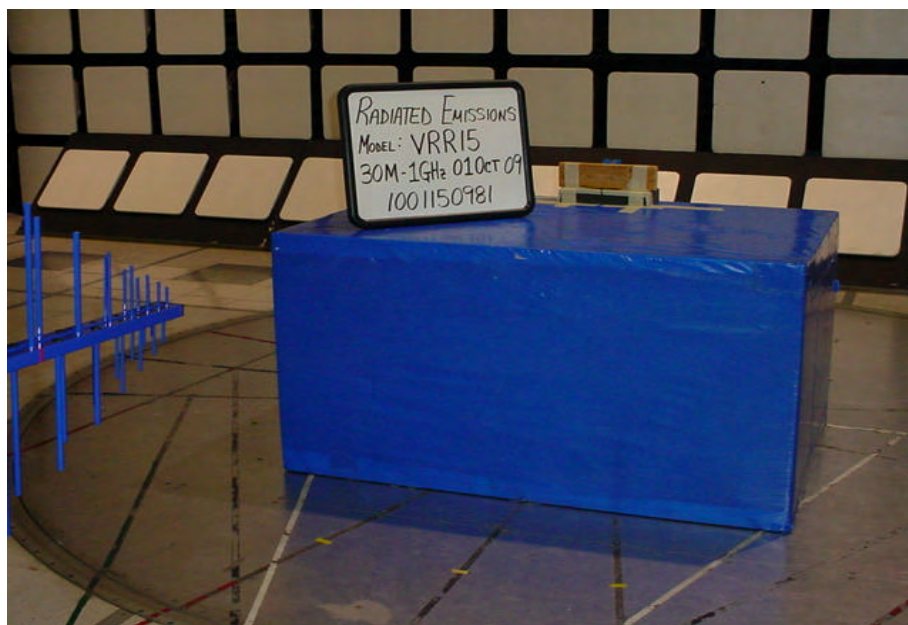
VRP15 Front View 1GHz to 5GHz

Figure 53: Test setup for Radiated Emissions



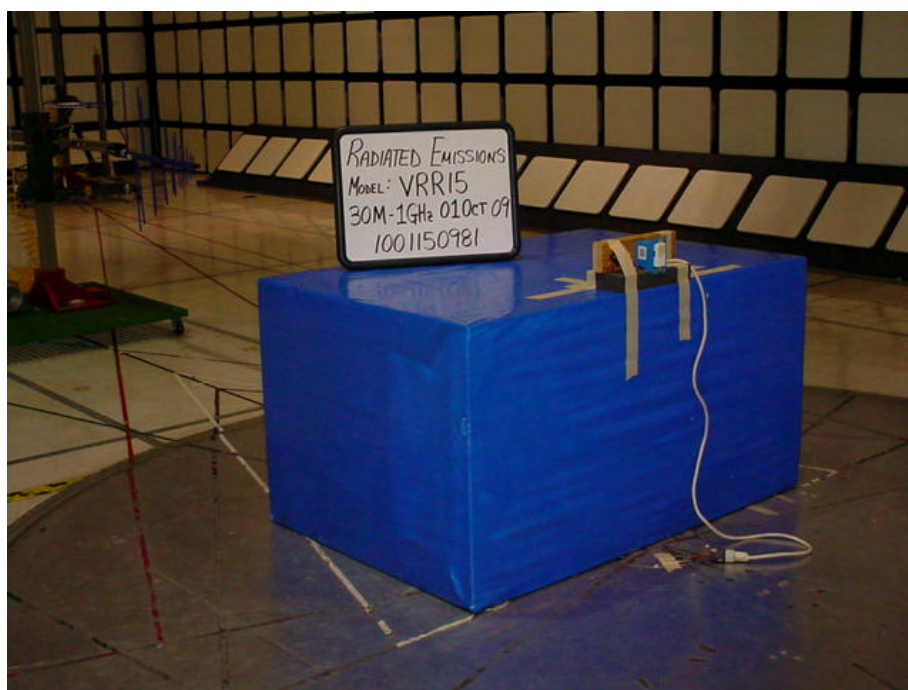
VRP15 Rear View 1GHz to 5GHz

Figure 54: Test setup for Radiated Emissions



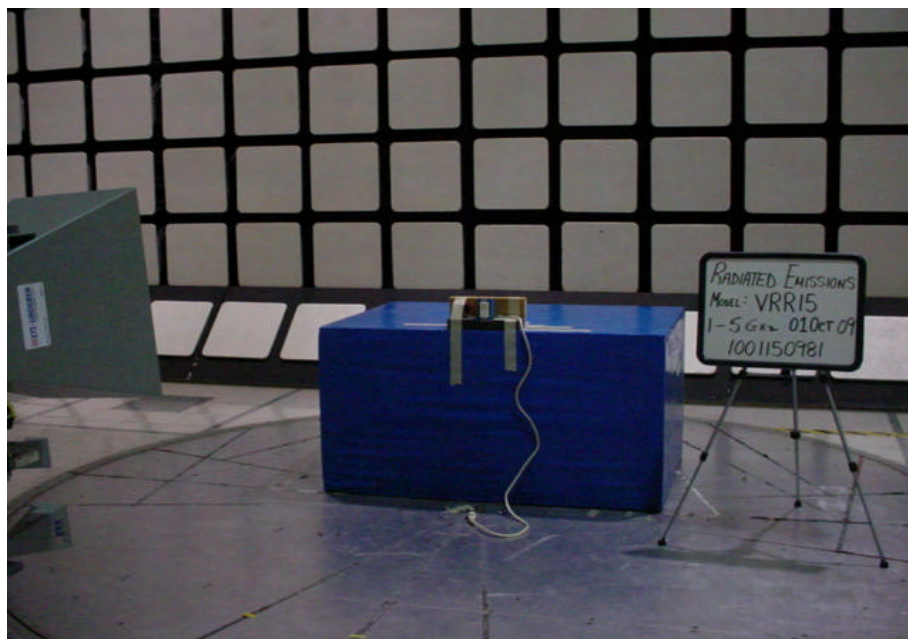
VRR15 Front View 30MHz to 1000MHz

Figure 55: Test setup for Radiated Emissions



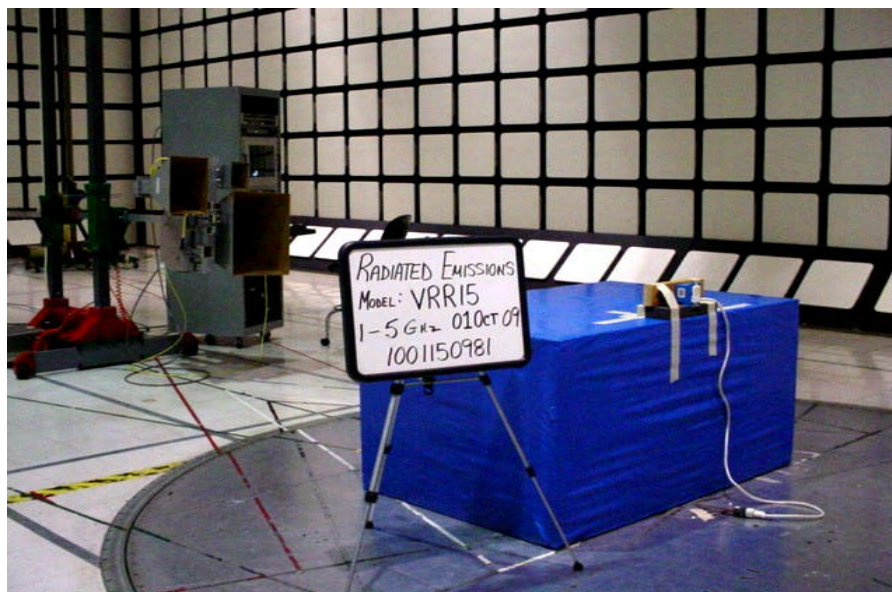
VRR15 Rear View 30MHz to 1000MHz

Figure 56: Test setup for Radiated Emissions



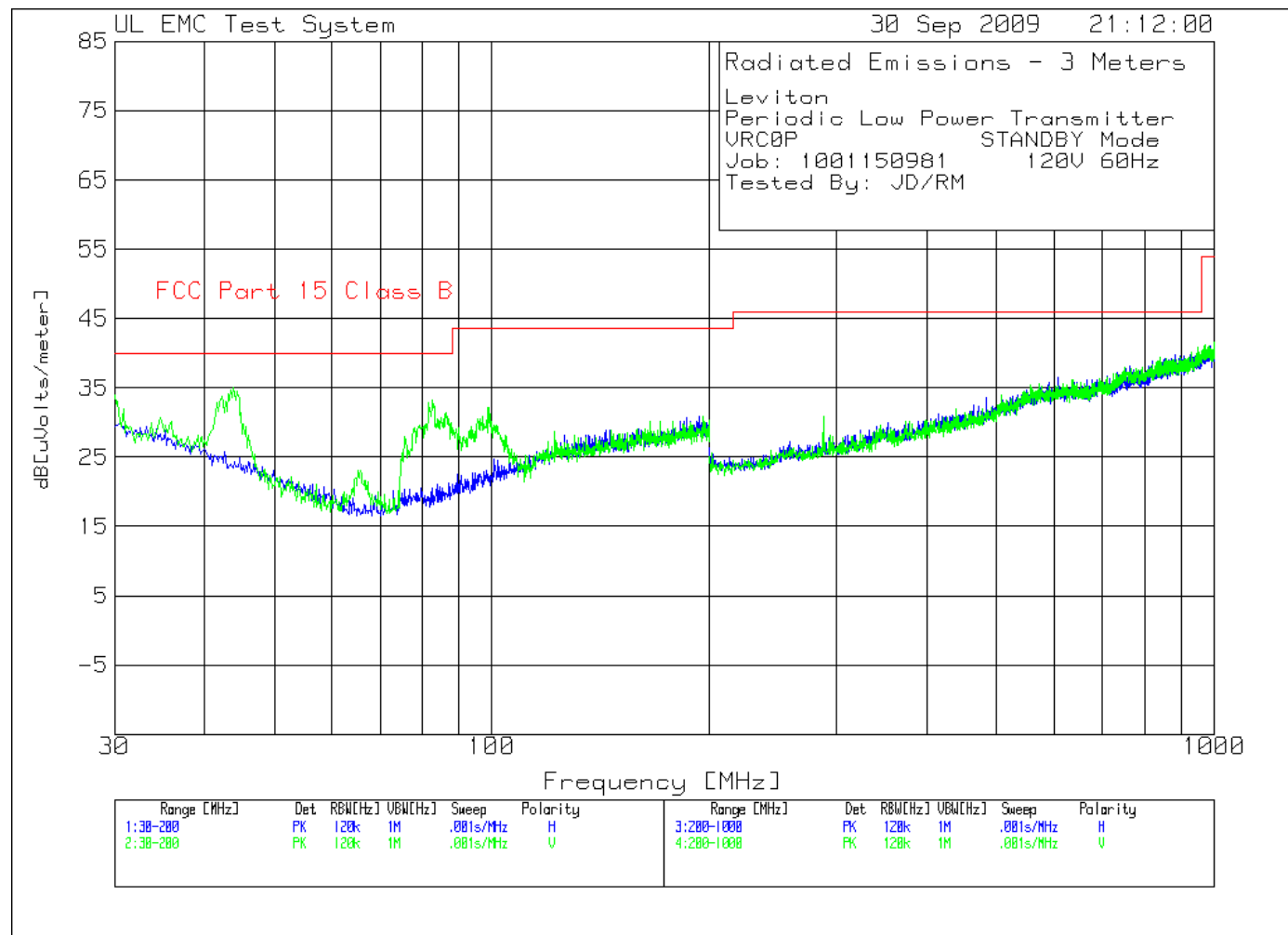
VRR15 Front View 1GHz to 5GHz

Figure 57: Test setup for Radiated Emissions



VRR15 Rear View 1GHz to 5GHz

Figure 36: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 121 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 18: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRC0P STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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	144.014	13.84 pk	.8	14.3	28.94	43.5	-	-	-	-	-
	Azimuth:217	Height:100	Horz	Margin [dB]		-14.56	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	30	16.14 pk	.4	17.4	33.94	40	-	-	-	-	-
	Azimuth:0	Height:100	Vert	Margin [dB]		-6.06	-	-	-	-	-
3	43.7838	22.78 pk	.4	11.8	34.98	40	-	-	-	-	-
	Azimuth:314	Height:100	Vert	Margin [dB]		-5.02	-	-	-	-	-
4	82.7528	24.41 pk	.6	8.3	33.31	40	-	-	-	-	-
	Azimuth:0	Height:100	Vert	Margin [dB]		-6.69	-	-	-	-	-
5	98.7487	20.52 pk	.6	11.1	32.22	43.5	-	-	-	-	-
	Azimuth:134	Height:100	Vert	Margin [dB]		-11.28	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
6	287.6438	14.85 pk	1	13.7	29.55	46	-	-	-	-	-
	Azimuth:171	Height:100	Horz	Margin [dB]		-16.45	-	-	-	-	-
7	881.5408	14.99 pk	1.8	23	39.79	46	-	-	-	-	-
	Azimuth:41	Height:100	Horz	Margin [dB]		-6.21	-	-	-	-	-
Vertical 200 - 1000MHz -----											
8	288.044	16.52 pk	1	13.4	30.92	46	-	-	-	-	-
	Azimuth:51	Height:100	Vert	Margin [dB]		-15.08	-	-	-	-	-
9	570.9855	14.56 pk	1.4	19.7	35.66	46	-	-	-	-	-
	Azimuth:251	Height:100	Vert	Margin [dB]		-10.34	-	-	-	-	-
10	947.1736	15.01 pk	1.8	24	40.81	46	-	-	-	-	-
	Azimuth:11	Height:400	Vert	Margin [dB]		-5.19	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Job Number: 1001150981 File Number: MC15211 Page 122 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

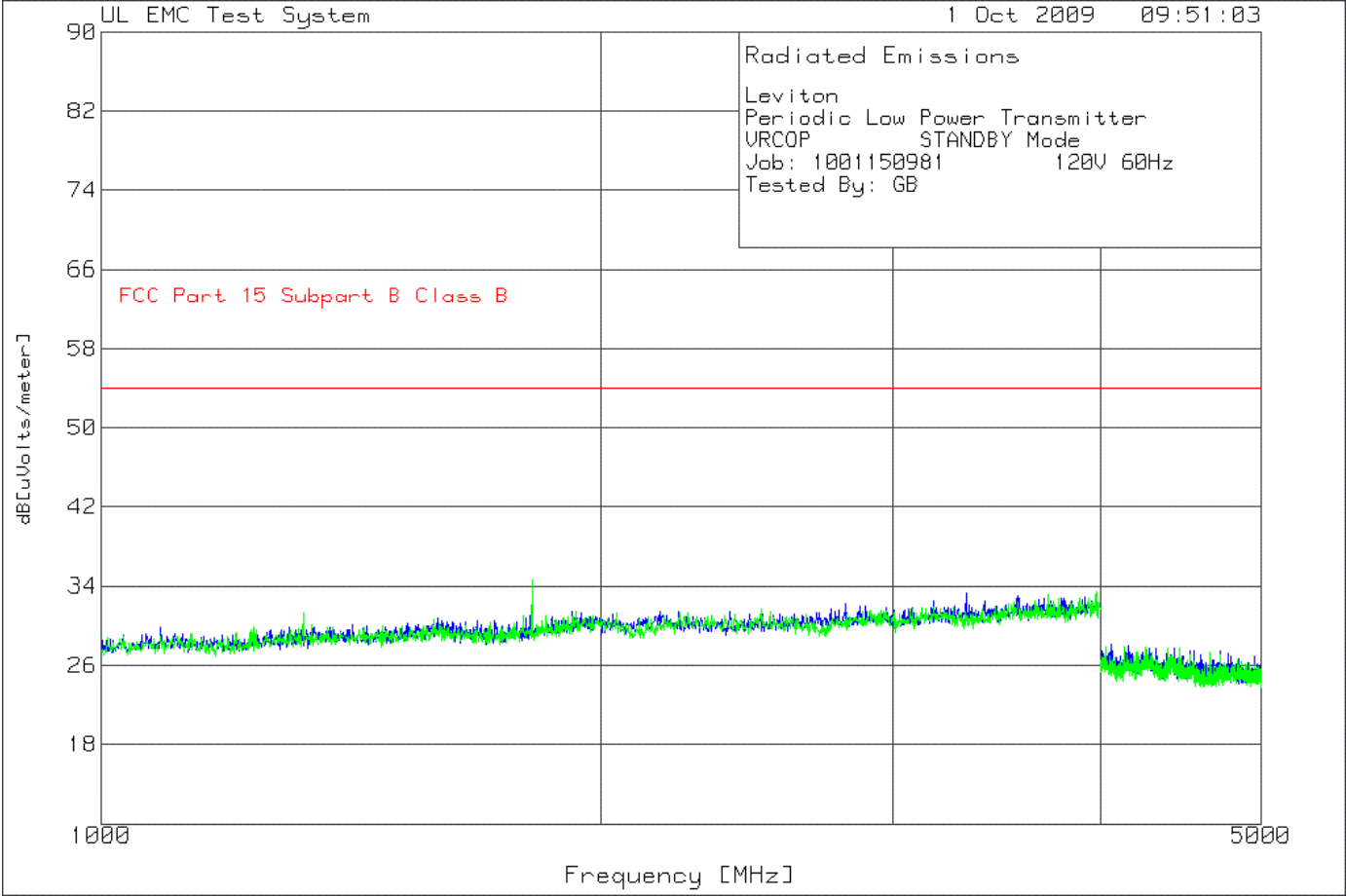
Leviton
 Periodic Low Power Transmitter
 Model: VRC0P STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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										
44.1964	16.77 qp	.4	11.6	28.77	40	-	-	-	-	-
Azimuth: 97	Height:100	Vert	Margin [dB]:		-11.23	-	-	-	-	-
Vertical 200 - 1000MHz										
947.1736	9.04 qp	1.8	24	34.84	46	-	-	-	-	-
Azimuth: 0	Height:264	Vert	Margin [dB]:		-11.16	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Figure 41: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 124 of 141
 Model Number: VRCOP, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 19: Radiated Emissions Data Points

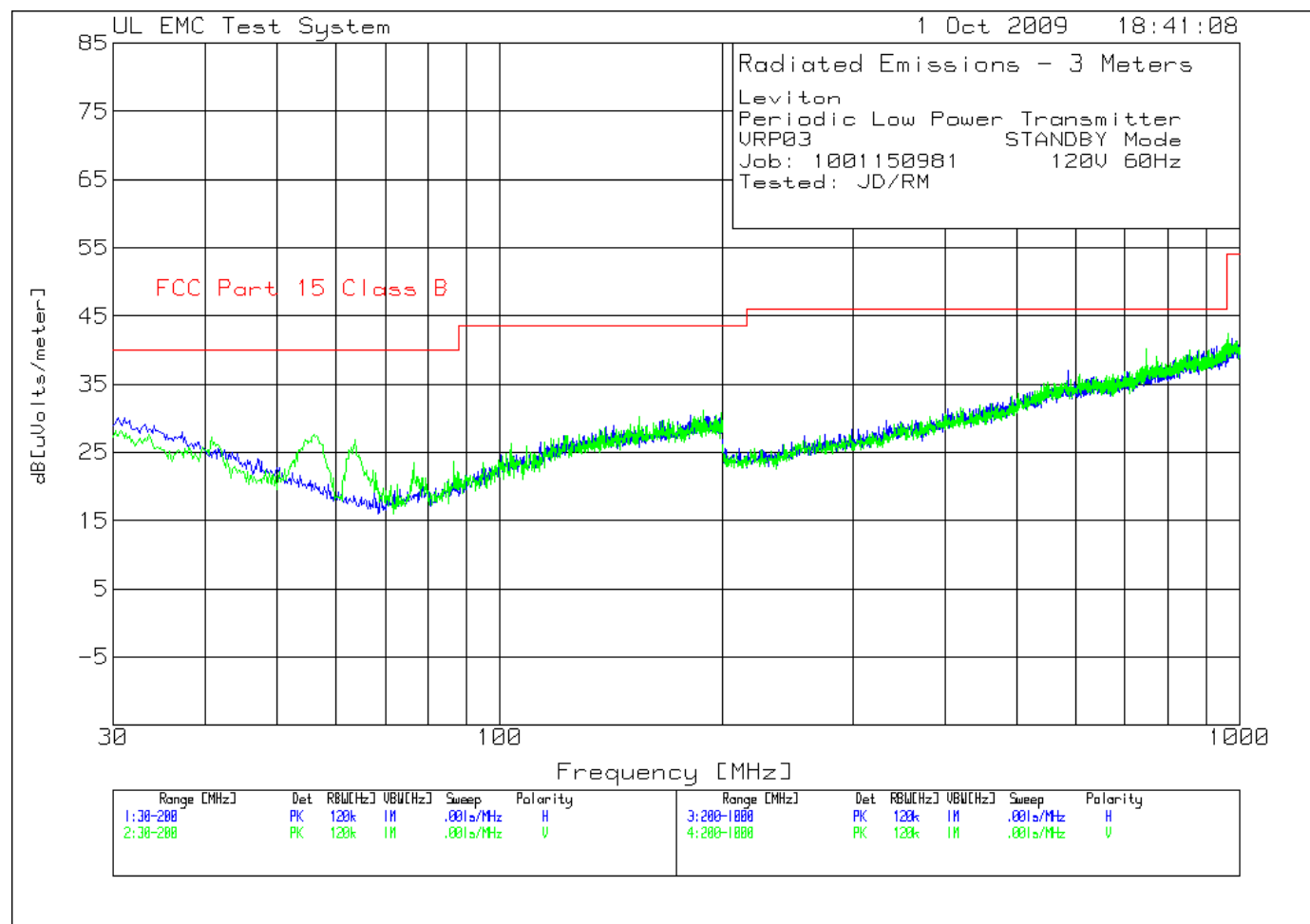
Leviton
 Periodic Low Power Transmitter
 Model: VRCOP STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Horizontal 1000 - 2000MHz -----											
1	1086.142	55.6 pk	-45.65	19.9	29.85	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-24.15	-	-	-	-	-
5	1801.498	54.91 pk	-45.07	21	30.84	54	-	-	-	-	-
		Height:199 Horz		Margin [dB]		-23.16	-	-	-	-	-
6	1811.486	54.91 pk	-45	21.1	31.01	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-22.99	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
2	1235.955	55.34 pk	-45.63	20.1	29.81	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		-24.19	-	-	-	-	-
3	1323.346	56.36 pk	-45.61	20.5	31.25	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-22.75	-	-	-	-	-
4	1817.728	58.34 pk	-44.88	21.1	34.56	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-19.44	-	-	-	-	-

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 42: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 126 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 20: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRP03 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested: JD/RM

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	31.021	11.23 pk	.4	18.5	30.13	40	-	-	-	-	-
	Azimuth:17	Height:100	Horz	Margin [dB]	-9.87		-	-	-	-	-
Vertical 30 - 200MHz -----											
2	56.036	19 pk	.5	8.1	27.6	40	-	-	-	-	-
	Azimuth:286	Height:100	Vert	Margin [dB]	-12.4		-	-	-	-	-
3	63.6937	20.22 pk	.5	6.1	26.82	40	-	-	-	-	-
	Azimuth:250	Height:100	Vert	Margin [dB]	-13.18		-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	586.5933	16 pk	1.4	19.7	37.1	46	-	-	-	-	-
	Azimuth:358	Height:400	Horz	Margin [dB]	-8.9		-	-	-	-	-
5	932.3662	15.38 pk	1.8	23.4	40.58	46	-	-	-	-	-
	Azimuth:97	Height:400	Horz	Margin [dB]	-5.42		-	-	-	-	-
Vertical 200 - 1000MHz -----											
6	747.0735	16.65 pk	1.6	22	40.25	46	-	-	-	-	-
	Azimuth:130	Height:200	Vert	Margin [dB]	-5.75		-	-	-	-	-
7	952.7764	14.71 pk	1.9	24.2	40.81	46	-	-	-	-	-
	Azimuth:3	Height:100	Vert	Margin [dB]	-5.19		-	-	-	-	-
8	963.982	15.92 pk	1.9	24.6	42.42	54	-	-	-	-	-
	Azimuth:3	Height:300	Vert	Margin [dB]	-11.58		-	-	-	-	-
9	771.0855	15.42 pk	1.6	22.1	39.12	46	-	-	-	-	-
	Azimuth:130	Height:300	Vert	Margin [dB]	-6.88		-	-	-	-	-
10	879.1396	15.05 pk	1.8	23.2	40.05	46	-	-	-	-	-
	Azimuth:18	Height:300	Vert	Margin [dB]	-5.95		-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Job Number: 1001150981 File Number: MC15211 Page 127 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

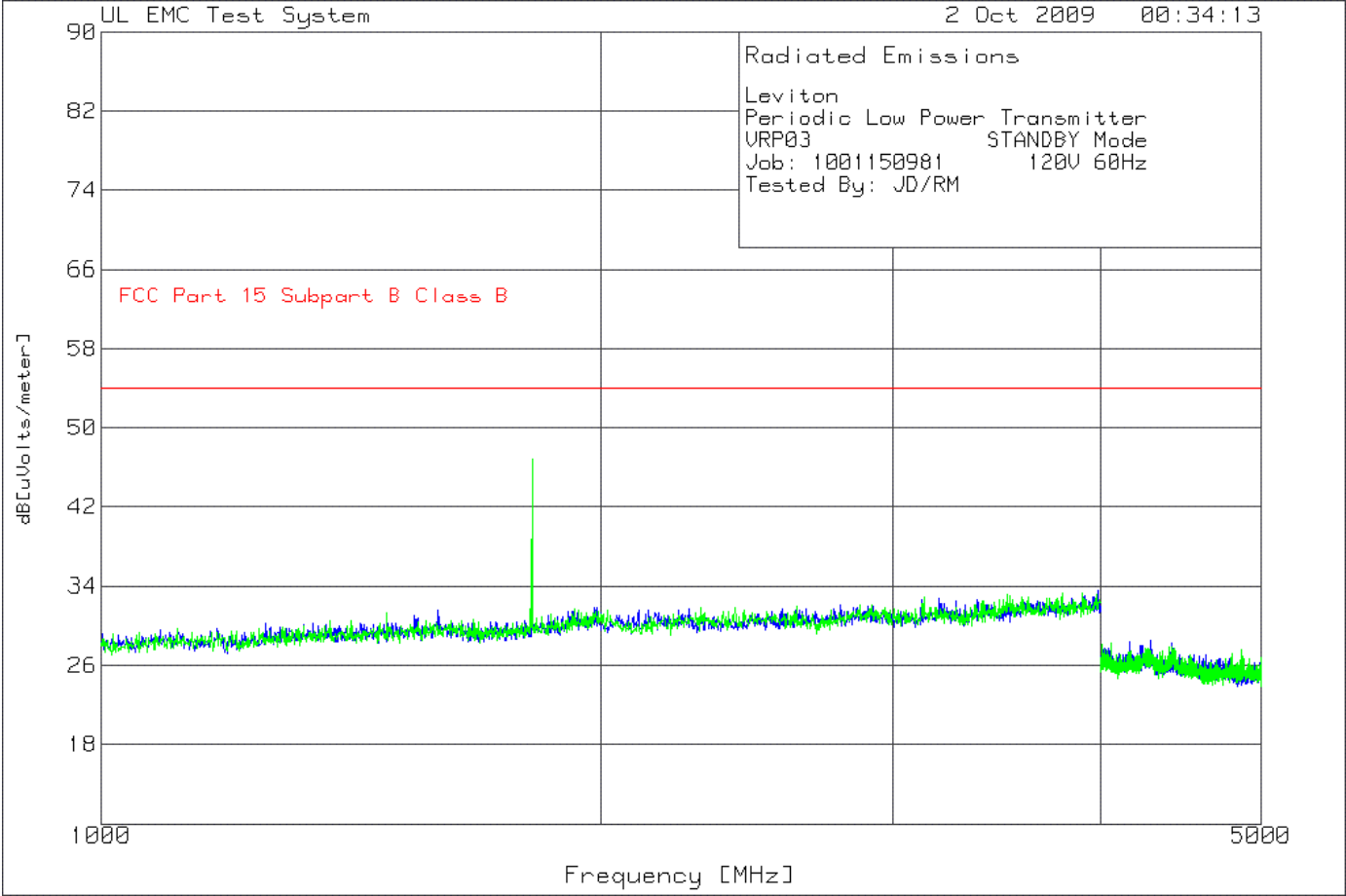
Leviton
 Periodic Low Power Transmitter
 Model: VRP03 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested: JD/RM

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										
932.3662	9.04 qp	1.8	23.4	34.24	46	-	-	-	-	-
Azimuth: 0	Height:139	Horz	Margin	[dB]:	-11.76	-	-	-	-	-
Vertical 200 - 1000MHz										
747.0735	8.73 qp	1.6	22	32.33	46	-	-	-	-	-
Azimuth: 152	Height:169	Vert	Margin	[dB]:	-13.67	-	-	-	-	-
952.7764	8.99 qp	1.9	24.2	35.09	46	-	-	-	-	-
Azimuth: 7	Height:143	Vert	Margin	[dB]:	-10.91	-	-	-	-	-
879.1396	8.89 qp	1.8	23.2	33.89	46	-	-	-	-	-
Azimuth: 56	Height:167	Vert	Margin	[dB]:	-12.11	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Figure 43: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 129 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 33: Radiated Emissions Data Points

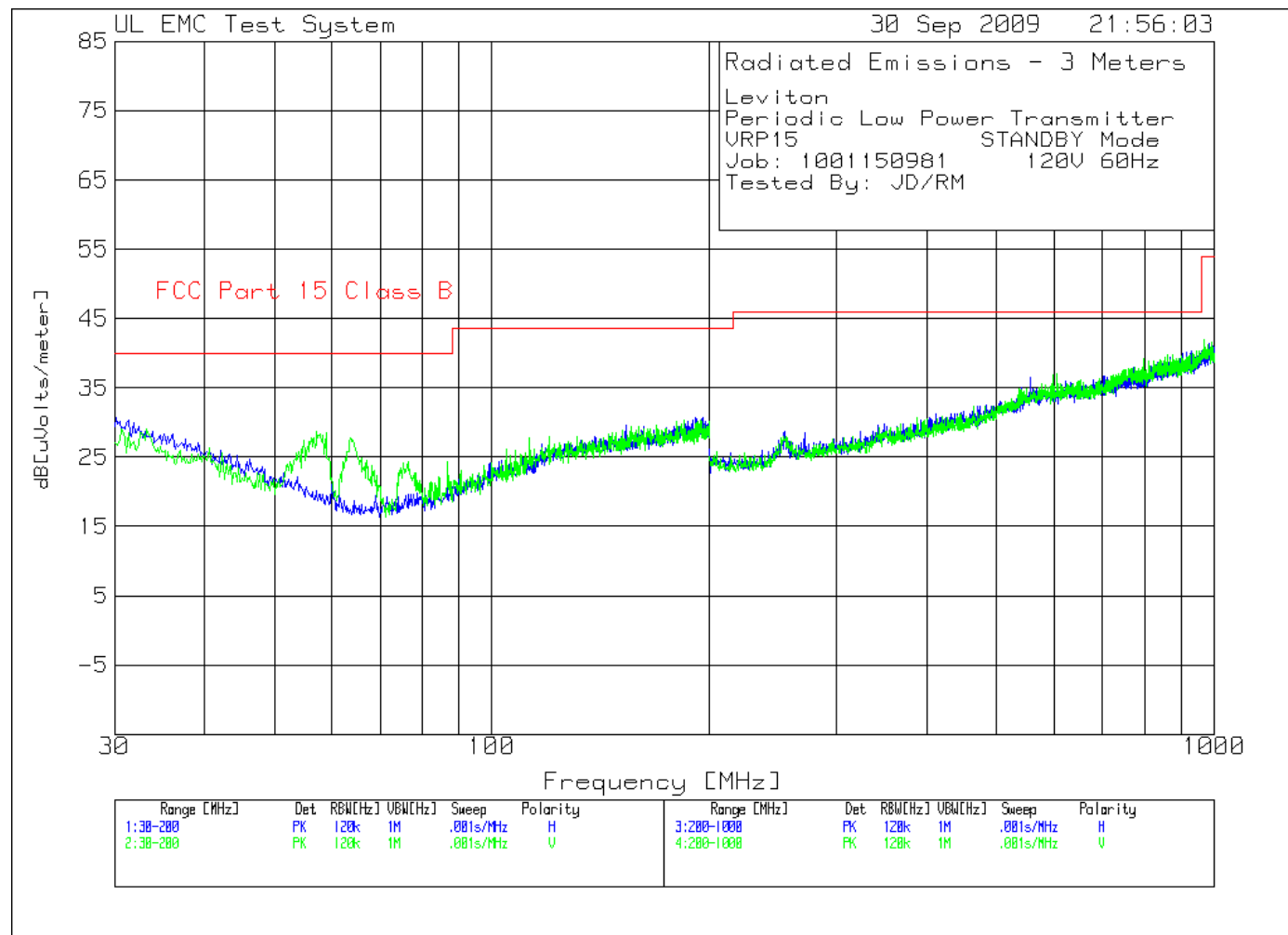
Leviton
Periodic Low Power Transmitter
Model: VRP03 STANDBY Mode
Job: 1001150981 120V 60Hz
Tested By: JD/RM

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2000MHz -----											
1	1596.754	55.57 pk	-45.23	21.2	31.54	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-22.46	-	-	-	-	-
2	1817.728	67.44 pk	-44.88	21.1	43.66	54	-	-	-	-	-
		Height:149 Horz		Margin [dB]		-10.34	-	-	-	-	-
Horizontal 2000 - 4000MHz -----											
3	3198.502	54.04 pk	-43.23	22	32.81	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-21.19	-	-	-	-	-
Horizontal 4000 - 5000MHz -----											
4	4419.301	54.31 pk	-53.6	27.6	28.31	54	-	-	-	-	-
		Height:200 Horz		Margin [dB]		-25.69	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
5	1817.728	70.67 pk	-44.88	21.1	46.89	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-7.11	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
6	3513.109	53.58 pk	-42.79	22.4	33.19	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-20.81	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
7	4255.408	53.67 pk	-53.79	27.8	27.68	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-26.32	-	-	-	-	-
8	4862.729	54.53 pk	-54.47	27.5	27.56	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-26.44	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B Class B

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

Figure 44: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 131 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 21: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRP15 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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	153.5435	14.27 pk	.8	14.5	29.57	43.5	-	-	-	-	-
	Azimuth:287	Height:200	Horz	Margin [dB]		-13.93	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	57.2272	20.6 pk	.5	7.6	28.7	40	-	-	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-11.3	-	-	-	-	-
3	63.6937	21.13 pk	.5	6.1	27.73	40	-	-	-	-	-
	Azimuth:211	Height:100	Vert	Margin [dB]		-12.27	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	556.1781	15.55 pk	1.4	19.6	36.55	46	-	-	-	-	-
	Azimuth:276	Height:200	Horz	Margin [dB]		-9.45	-	-	-	-	-
7	929.965	15.18 pk	1.8	23.4	40.38	46	-	-	-	-	-
	Azimuth:99	Height:300	Horz	Margin [dB]		-5.62	-	-	-	-	-
Vertical 200 - 1000MHz -----											
5	604.6023	15.62 pk	1.5	19.9	37.02	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		-8.98	-	-	-	-	-
6	967.1836	15.31 pk	1.9	24.7	41.91	54	-	-	-	-	-
	Azimuth:228	Height:400	Vert	Margin [dB]		-12.09	-	-	-	-	-
8	945.5728	14.61 pk	1.8	24	40.41	46	-	-	-	-	-
	Azimuth:228	Height:100	Vert	Margin [dB]		-5.59	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Job Number: 1001150981 File Number: MC15211 Page 132 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

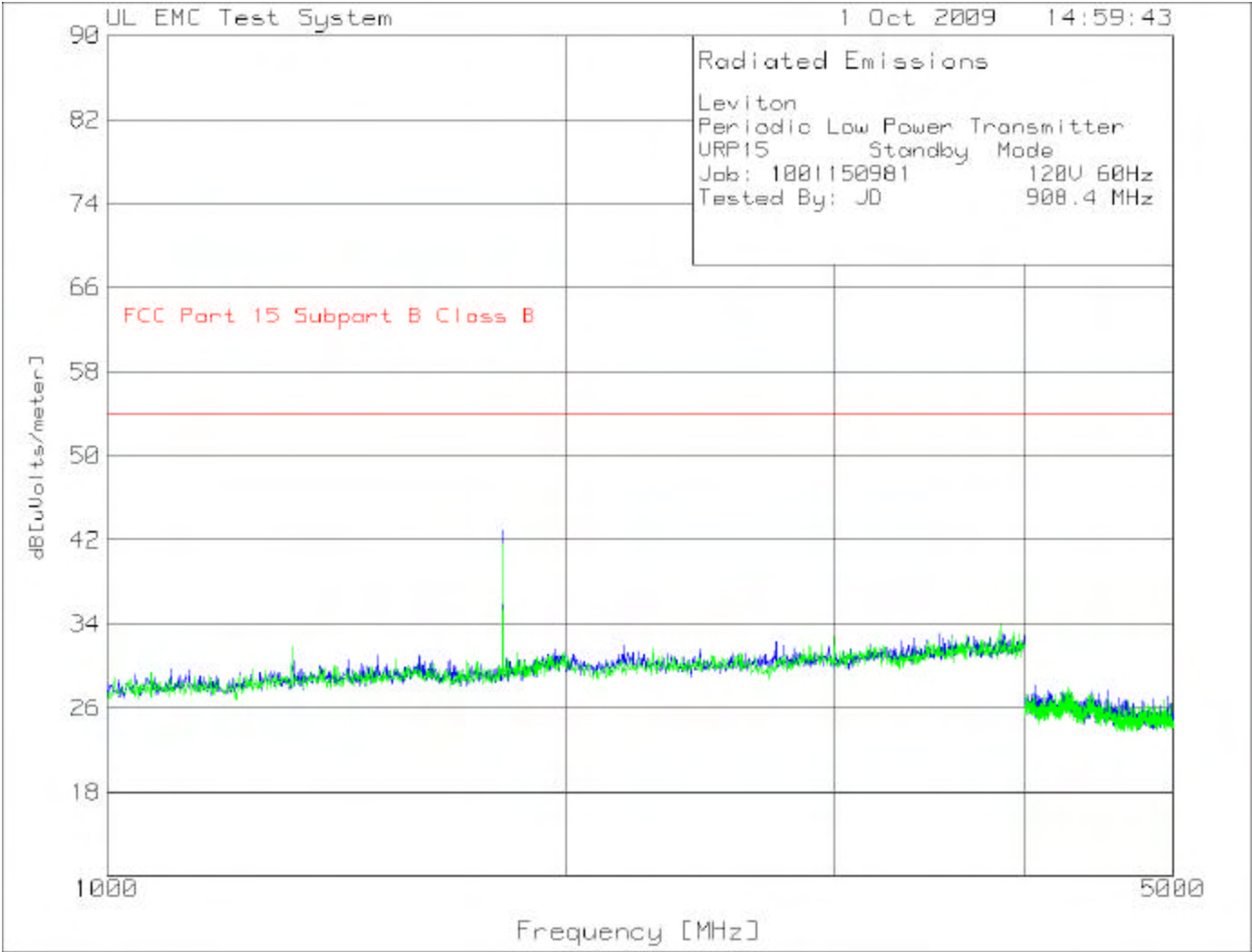
Leviton
 Periodic Low Power Transmitter
 Model: VRP15 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6
=====									
Horizontal 200 - 1000MHz									
929.965	9.04 qp	1.8	23.4	34.24	46	-	-	-	-
Azimuth: 7	Height:380	Horz	Margin [dB]:		-11.76	-	-	-	-
Vertical 200 - 1000MHz									
945.5728	9.04 qp	1.8	24	34.84	46	-	-	-	-
Azimuth: 0	Height:134	Vert	Margin [dB]:		-11.16	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Figure 45: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 134 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 34: Radiated Emissions Data Points

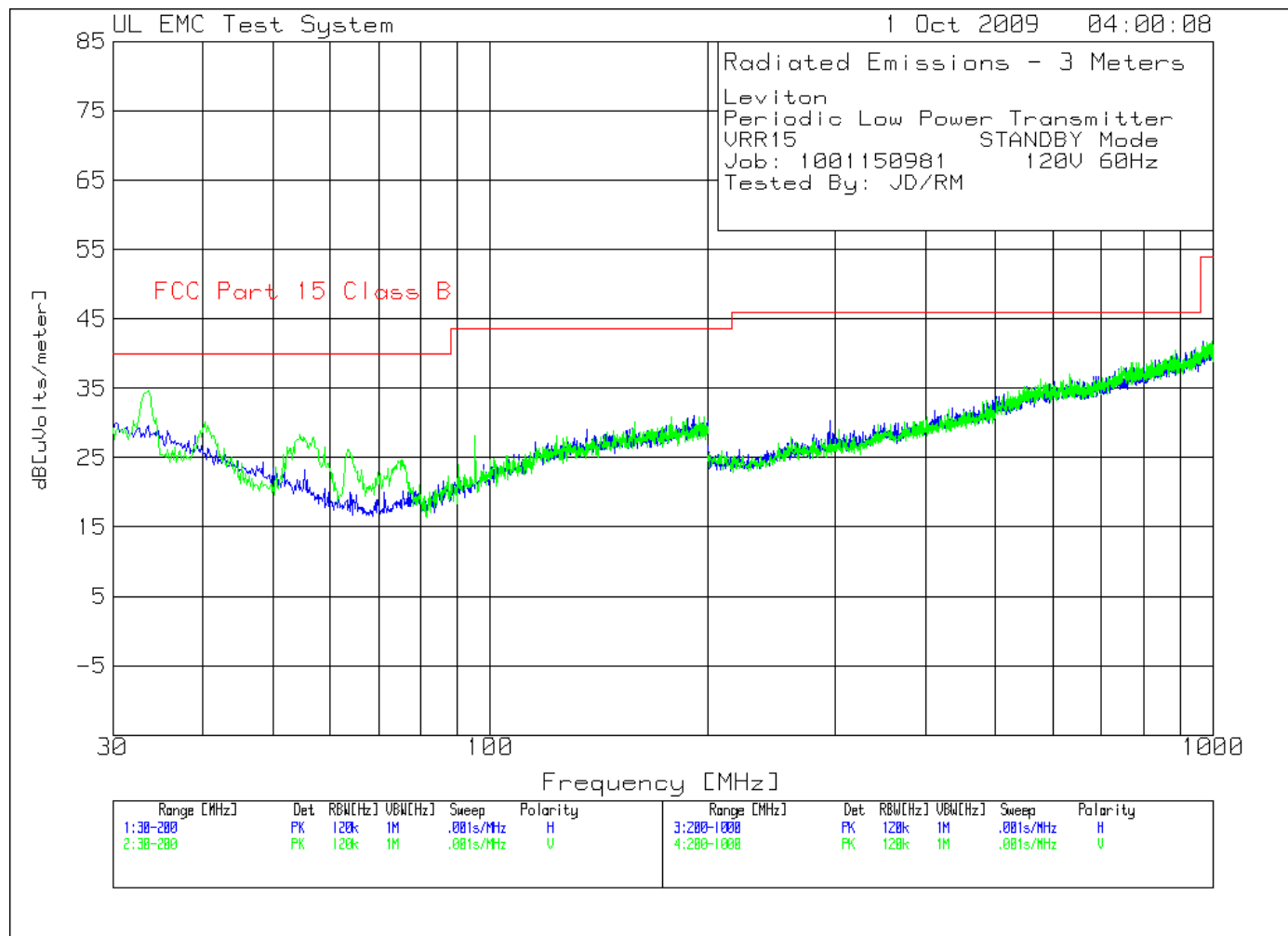
Leviton
Periodic Low Power Transmitter
Model: VRP15 Standby Mode
Job: 1001150981 120V 60Hz
Tested By: JD 908.4 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2000MHz -----											
3	1817.728	66.67 pk	-44.88	21.1	42.89	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-11.11	-	-	-	-	-
4	1102.372	55.56 pk	-45.81	20	29.75	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-24.25	-	-	-	-	-
5	1601.748	55.01 pk	-45.22	21.2	30.99	54	-	-	-	-	-
		Height:150 Horz		Margin [dB]		-23.01	-	-	-	-	-
6	1338.327	54.57 pk	-45.52	20.6	29.65	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		-24.35	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
1	1323.346	56.98 pk	-45.61	20.5	31.87	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-22.13	-	-	-	-	-
2	1817.728	65.46 pk	-44.88	21.1	41.68	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-12.32	-	-	-	-	-

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 46: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 136 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 22: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRR15 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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	135.6757	14.29 pk	.7	14.1	29.09	43.5	-	-	-	-	-
	Azimuth:180	Height:100	Horz	Margin [dB]		-14.41	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	33.5736	18.46 pk	.4	15.8	34.66	40	-	-	-	-	-
	Azimuth:33	Height:100	Vert	Margin [dB]		-5.34	-	-	-	-	-
3	40.2102	16.61 pk	.5	13.1	30.21	40	-	-	-	-	-
	Azimuth:141	Height:100	Vert	Margin [dB]		-9.79	-	-	-	-	-
4	54.5045	19.38 pk	.5	8.5	28.38	40	-	-	-	-	-
	Azimuth:286	Height:100	Vert	Margin [dB]		-11.62	-	-	-	-	-
5	95.1752	16.81 pk	.6	10.7	28.11	43.5	-	-	-	-	-
	Azimuth:105	Height:100	Vert	Margin [dB]		-15.39	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
6	294.4472	15.38 pk	1.1	13.8	30.28	46	-	-	-	-	-
	Azimuth:54	Height:100	Horz	Margin [dB]		-15.72	-	-	-	-	-
7	942.7714	15.19 pk	1.8	23.6	40.59	46	-	-	-	-	-
	Azimuth:141	Height:100	Horz	Margin [dB]		-5.41	-	-	-	-	-
Vertical 200 - 1000MHz -----											
8	576.9885	15.15 pk	1.4	19.8	36.35	46	-	-	-	-	-
	Azimuth:232	Height:200	Vert	Margin [dB]		-9.65	-	-	-	-	-
9	632.2161	15.18 pk	1.5	20.4	37.08	46	-	-	-	-	-
	Azimuth:290	Height:200	Vert	Margin [dB]		-8.92	-	-	-	-	-
10	884.3422	15.76 pk	1.8	23	40.56	46	-	-	-	-	-
	Azimuth:97	Height:300	Vert	Margin [dB]		-5.44	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Job Number: 1001150981 File Number: MC15211 Page 137 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

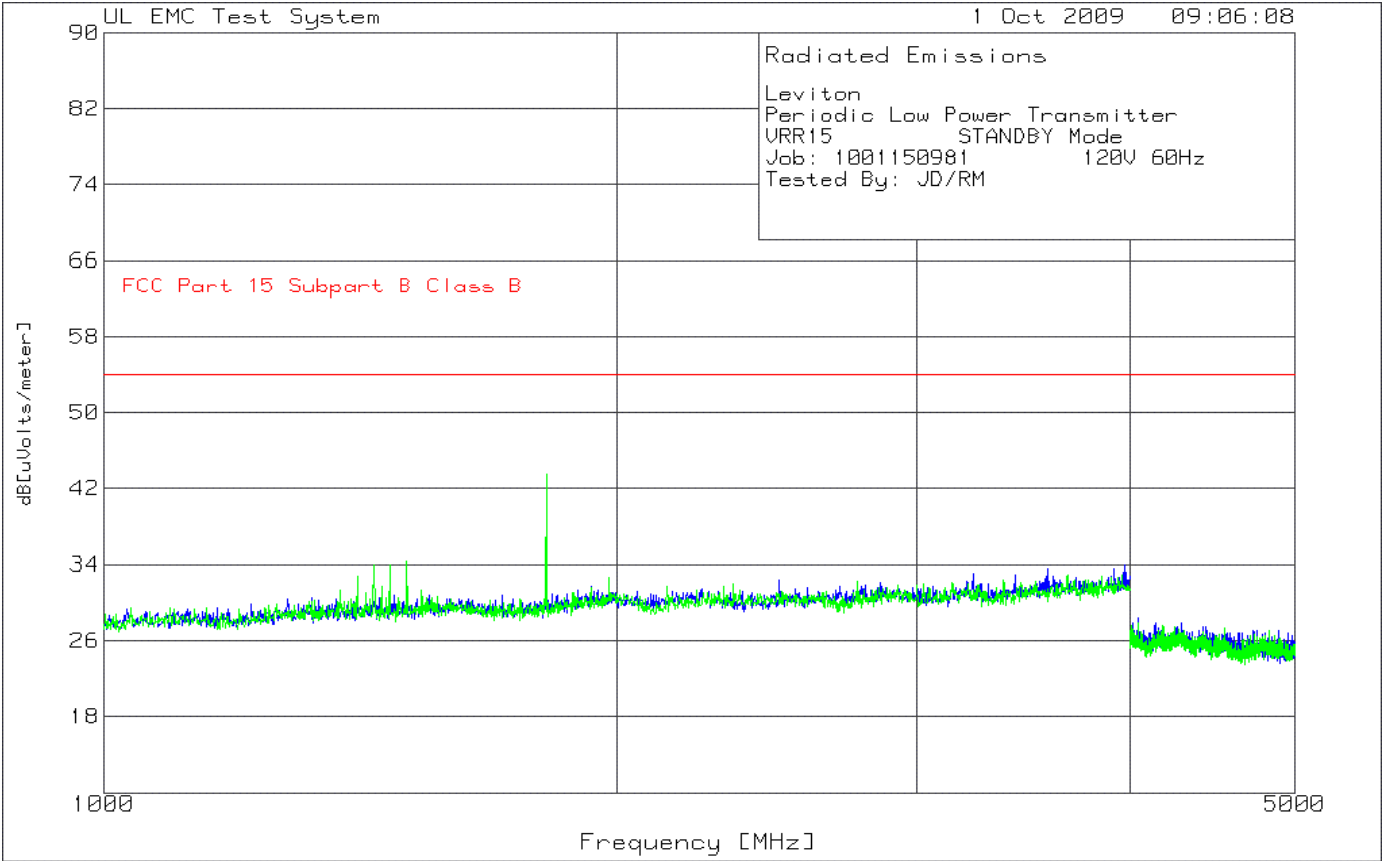
Leviton
 Periodic Low Power Transmitter
 Model: VRR15 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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										
33.588	15.56 qp	.4	15.8	31.76	40	-	-	-	-	-
Azimuth: 16	Height:102	Vert	Margin	[dB]:	-8.24	-	-	-	-	-
Horizontal 200 - 1000MHz										
942.7714	9.15 qp	1.8	23.6	34.55	46	-	-	-	-	-
Azimuth: 0	Height:102	Horz	Margin	[dB]:	-11.45	-	-	-	-	-
Vertical 200 - 1000MHz										
884.3422	8.94 qp	1.8	23	33.74	46	-	-	-	-	-
Azimuth: 249	Height:115	Vert	Margin	[dB]:	-12.26	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

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

Figure 47: Radiated Emissions Graph



Job Number: 1001150981 File Number: MC15211 Page 139 of 141
 Model Number: VRC0P, VRP03, VRP15 , & VRR15
 Client Name: Leviton Mfg. Co. Inc.
 FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC

Table 35: Radiated Emissions Data Points

Leviton
 Periodic Low Power Transmitter
 Model: VRR15 STANDBY Mode
 Job: 1001150981 120V 60Hz
 Tested By: JD/RM

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 1000 - 2000MHz -----											
1	1408.24	57.8 pk	-45.69	20.7	32.81	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-21.19	-	-	-	-	-
2	1439.451	58.81 pk	-45.55	20.7	33.96	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-20.04	-	-	-	-	-
3	1455.68	56.44 pk	-45.52	20.8	31.72	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-22.28	-	-	-	-	-
4	1471.91	58.74 pk	-45.55	20.8	33.99	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-20.01	-	-	-	-	-
5	1505.618	58.93 pk	-45.37	20.8	34.36	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-19.64	-	-	-	-	-
6	1817.728	67.36 pk	-44.88	21.1	43.58	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-10.42	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B Class B

PK - Peak detector
 QP - Quasi-Peak detector
 av - Linear average detector
 avlg - Average log detector
 AV - Average detector

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100255-0

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



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



Industry Canada Industrie Canada

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



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

Job Number: 1001150981 File Number: MC15211 Page 141 of 141
Model Number: VRC0P, VRP03, VRP15 , & VRR15
Client Name: Leviton Mfg. Co. Inc.
FCC ID: QGH-VRSDC Industry Canada ID: 2473A-VRSDC



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