



EMC

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Melville, NY 11747

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Project: 06CA21437
File: MC15211
Date: 10/16/2006
Model: RZM10 AND RZ110
FCCID: QGH-RZD10

Electromagnetic Compatibility Test Report

For

LEVITON MFG CO INC

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Test Report Details

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

Tests Performed For: **LEVITON MFG CO INC
59-25 LITTLE NECK PKY
LITTLE NECK, NY 11362**

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Test Report Date: **10/16/2006**

Product Type: **DIMMERS**

Product standards **FCC Part 15, Subpart C, 15.249**

Model Number: **RZM10 and RZI10**

Sample Serial Number: **Prototype**

Sample Tag Number: **0788592**

Sample Receive Date: **5/9/2006**

Lab Tracking Number: **06MEL4109**

EUT Category: **Transceiver**

Testing Start Date: **5/9/2006**

Date Testing Complete: **9/5/2006**

Overall Results: Pass

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

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

*Signature required for products covered by FCC Declaration of Conformity or Verification in accordance with record retention requirements in FCC Rules 2.955(x) or 2.1057(x).

Report Directory

1.0	<i>GENERAL - Product Description</i>	4
1.1	Device Configuration During Test	5
1.2	EUT Operation Modes:.....	6
1.3	EUT Configuration Modes:.....	6
1.4	Block Diagram:.....	7
1.5	Deviations from standard test methods.....	7
1.6	Device Modifications Necessary for Compliance.....	7
1.7	Test Summary.....	8
2.0	<i>Conclusion:</i>	9
3.0	<i>FCC Labeling Information</i>	10
3.1	Identification.	10
3.2	Compliance information	10
3.3	Labeling.	11
3.4	User information.	13
4.0	<i>Calibration of Equipment Used for Measurement</i>	13
5.0	<i>EMISSIONS TEST REGULATIONS</i>	14
	Conducted Emissions Test – Mains & I/O Lines	15
	Radiated Emissions Test.....	24
	Occupied Bandwidth–	35
	Supply Voltage Variation Versus Transmit Output Power.....	39
	Transmission On Time (Duty Cycle).....	42
	Fundamental Frequency and Spurious Emissions Measurement Limit Calculations	45
Appendix A		46
	Accreditations and Authorizations	46

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
10/16/2006	Original	--	--

1.0 GENERAL - Product Description

The EUT is a light dimmer switch to control a light fixture for illumination.

The RZM10 is a single pole, 3-way control Dimmer that is designed for control of up to 1000 W incandescent/1000VA magnetic low voltage lightning load.

The RZI10 is a single pole, 3-way control Dimmer that is designed for control of up to 1000 W incandescent/1000VA magnetic low voltage lightning load.

The difference between the RZM10 and the RZI10 is the RZI10 is required to connect line; ground and load wire connection while the RZM10 requires connecting line, ground, load and neutral wire connections for applying a feed thru neutral connection for proper application.

Note: The RZM10 was the actual model number that was evaluated under this investigation therefore; it is the manufacturers Leviton responsibility that the RZI10 performs as the RZM10.

1.1 Device Configuration During Test

The equipment under test was measured at its worst-case orientation during the evaluation.

1.1.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Comments
EUT	Dimmers	Leviton	RZM10	-
ACC	Load	Leviton	-	Incandescent Light bulb

* Use = EUT - Equipment Under Test, ACC - Accessory (Not Subjected to Test), or SIM - Simulator (Not Subjected to Test)

1.1.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
0	Enclosure	N/E	-	-	None
1	Mains	AC	NO	NO	None

*AC = AC Power Port DC = DC Power Port N/E = Non-Electrical
 I/O = Signal Input or Output Port (Not Involved in Process Control)
 PMC = Process Measurement and Control Port

1.1.3 EUT Internal Operating Frequencies:

Frequency (MHz)	Description	Frequency (MHz)	Description
908.42	Fundamental	--	--

1.1.4 Power Interface:

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

1.2 EUT Operation Modes:

Mode #	Description
1	The EUT was set to transmit at it's maximum allowable power rating at the fundamental frequency of 908.42MHz

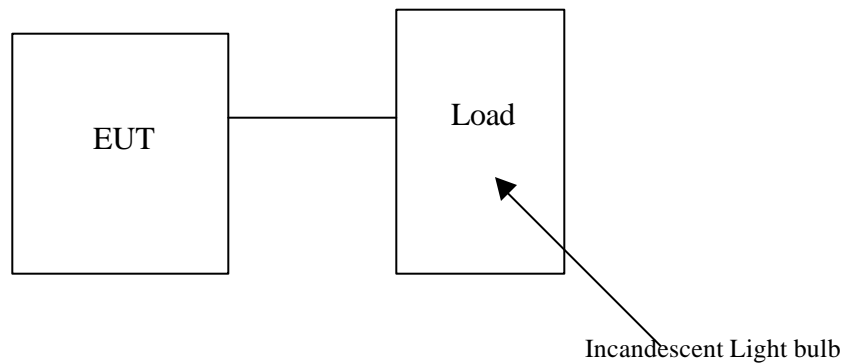
1.3 EUT Configuration Modes:

Mode #	Description
1	Transmitter Continuous CW
2	Transmitter Normal operation

"The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report"

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 Deviations from standard test methods.

Not Applicable

1.6 Device Modifications Necessary for Compliance

Not Applicable.

1.7 Test Summary

Product Standards	FCC Part 15, Subpart C, 15.207, 15.209, and 15.249
--------------------------	--

Summary of EMC Emission Tests	Standard	Test Name	Result
	FCC Part 15.207	Conducted Emissions	1
	FCC Part 15.209	Radiated Emissions	1
	FCC Part 15.249 (d)	Radiated Spurious Emissions	1
	FCC Part 15.249	Occupied Bandwidth	1
	FCC Part 15.31(e)	Tx Versus Output Voltage	1
	FCC Part 15.249(a)	Fundamental Field Strength	1

Remarks:

- 1) Compliant – Indicates no modifications required for compliance.
- 2) Modifications required to comply as described in Section 1.6

2.0 Conclusion:

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.

The equipment under test has met the technical requirements as defined under sections 5.0 and 6.0.

Test Start Date: 09 May 2006
Test Completion Date: 05 September 2006



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3.0 FCC Labeling Information

3.1 Identification.

Devices Subject to Verification

In 47 CFR, Part 2, **§ 2.954**:

“Devices subject only to verification shall be uniquely identified by the person responsible for marketing or importing the equipment within the United States. However, the identification shall not be of a format, which could be confused with the FCC Identifier required on certified, notified or type accepted equipment. The importer or manufacturer shall maintain adequate identification records to facilitate positive identification for each verified device.”

Devices Subject to Declaration of Conformity

In 47 CFR, Part 2, **§ 2.1074**:

“Devices subject only to a Declaration of Conformity shall be uniquely identified by the responsible party. This identification shall not be of a format which could be confused with the FCC Identifier required on certified, notified, type accepted or type approved equipment. The responsible party shall maintain adequate identification records to facilitate positive identification for each device.”

3.2 Compliance information

§ 2.1077 Compliance information.

(a) If a product must be tested and authorized under a Declaration of Conformity, a compliance information statement shall be supplied with the product at the time of marketing or importation, containing the following information:

- (1) Identification of the product, e.g., name and model number;
- (2) A statement, similar to that contained in § 15.19(a)(3) of this chapter, that the product complies with part 15 of this chapters; and
- (3) The identification, by name, address and telephone number, of the responsible party, as defined

in § 2.909.

The responsible party for a Declaration of Conformity must be located within the United States.

(c) The compliance information statement shall be included in the user’s manual or as a separate sheet.

§ 15.19(a)(3):

“ All other devices shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

3.3 Labeling.

Labeling Certification or Verification

In addition to the requirements in Part 2 of this CFR 47 (See **1.6.1 Identification** above), a device subject to certification or verification shall be labeled as follows:

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

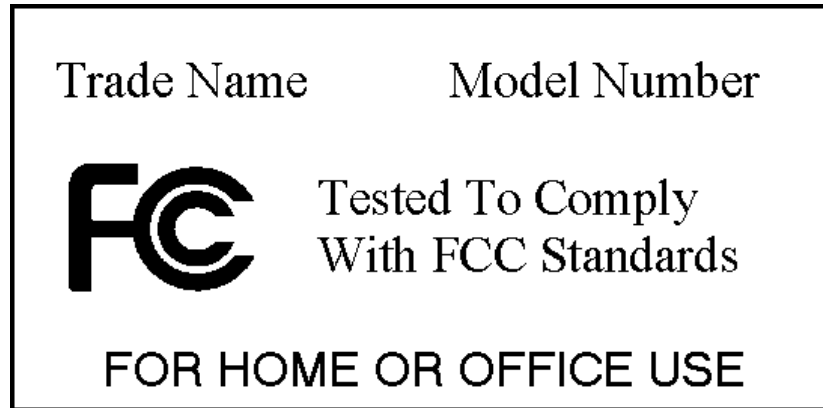
(5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

Declaration of Conformity Labeling

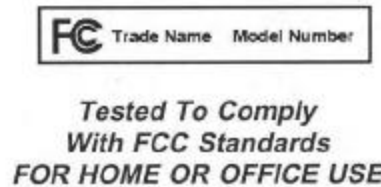
In addition to the requirements in Part 2 of CFR 47 (See **1.6.1 Identification** above), a device subject to authorization under a Declaration of Conformity shall be labeled as follows:

(1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in Section 2.1074 of this chapter and the following logo:

(i) If the product is authorized based on testing of the product or system:



Alternate label format for small devices:



The text shown in ***bold-face italics*** may be placed in a prominent location in the instruction manual or pamphlet supplied to the user.

- (2) Label text and information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as described in Section 2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk-screened, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

3.4 User information.

In 47 CFR, Part 15, § 15.21 Information to user:

“The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

In 47 CFR, Part 15, § 15.105 Information to the user:

Class A Devices

“(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.”

Class B Devices

“(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

“(d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.”

4.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is the manufacturer recommends one year or what 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.

5.0 EMISSIONS TEST REGULATIONS

The emissions tests were performed according to following regulations:

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

FCC Part 15, Subpart C, 15.207, 15.209, and 15.249	Code of Federal Regulations, Part 15, Subpart B, Radio Frequency Devices: 2006
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Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded 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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TEST TITLE: Conducted Emissions Test – Mains & I/O Lines

METHOD

Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. For all equipment, except floor-standing equipment, the EUT was located 40cm from a vertical conducting surface. All power was connected to the system through Line Impedance Stabilization Networks (LISN) and distance between the EUT and the LISN was 80cm or more. Conducted voltage measurements on mains lines were made at the output of the LISN. Conducted Current measurements on I/O lines are made with the current probe.

One fully configured sample was scanned over the following frequency range

Frequency range on each side of line	Measurement Point	
150kHz to 30MHz	Voltage	Mains

Mode*		
Power	Operation	Configuration
1	1	1

*See Power Interface EUT Operating Modes and Configurations for details

Spectrum Analyzer Settings				
Measurement Frequency	Preliminary Peak Scan		Final Detection	
	Resolution Bandwidth	Video Bandwidth	Quasi-Peak Bandwidth	Average Video Bandwidth
9kHz to 150kHz	10kHz	10kHz	200Hz	1Hz
150kHz to 30MHz	100kHz	100kHz	9kHz	1Hz

The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	10 to 40	°C
Relative Humidity	10 to 90	%

Section 15.207 Limits

Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66-56	56-46
0.5-5	56	46
5-30	60	50

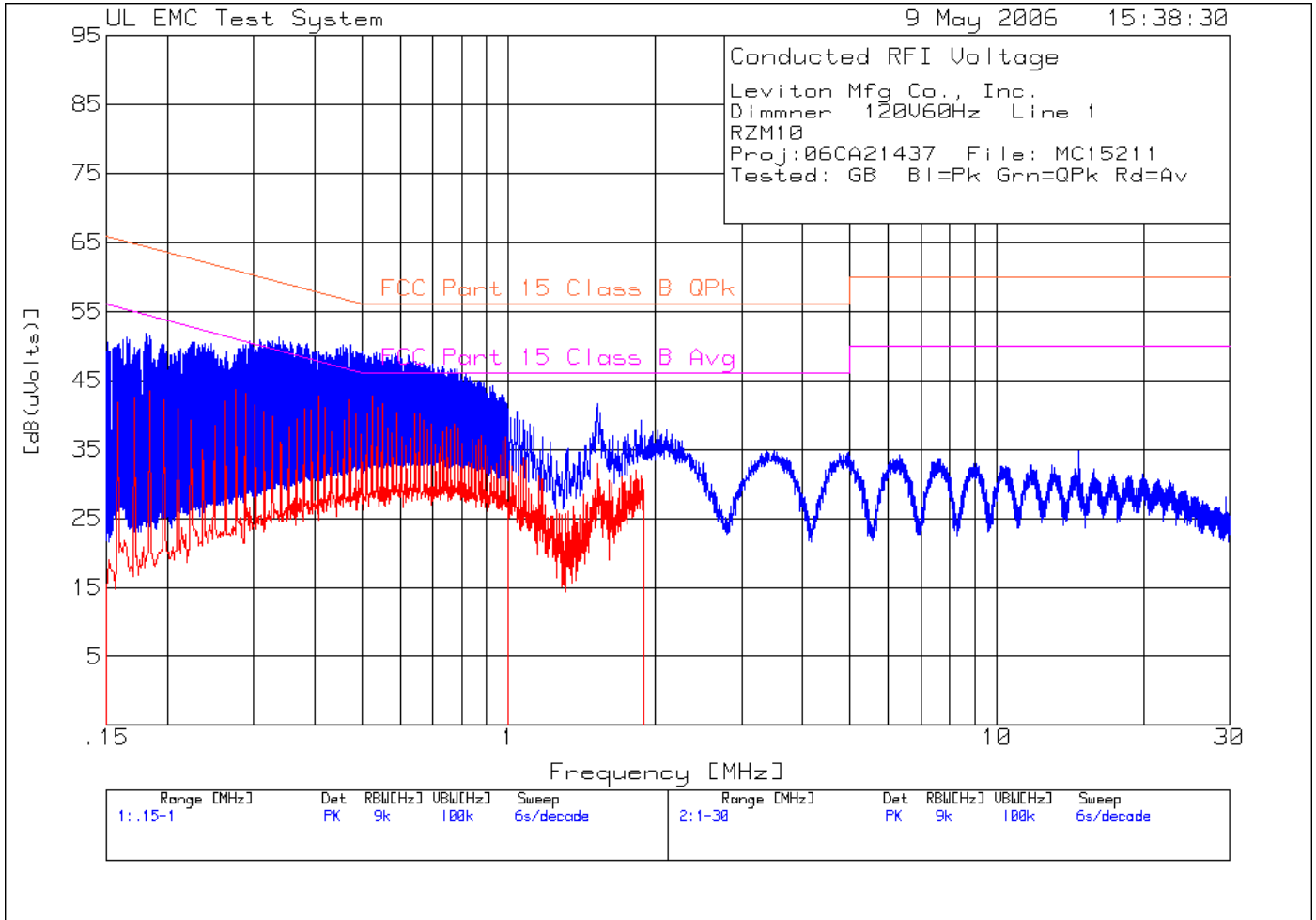
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	20.0	°C
Humidity:	44	%RH
Pressure:	1013	Mbar
Test Date	09 May 2006	

The results of this test **complied** with the requirements.

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwartz	ESIB 26	ME5B-081	11 Oct 05	31 Oct 06
50Ω LISN	Solar Electronics	9252-50-R-24-BNC	ME5A-636	20 Oct 05	31 Oct 06
Transient Limiter	Hewlett Packard	11947A	ME5A-443	25 Jan 06	31 Jan 07
Hygrometer/Temp/Barometer	Cole -Parmer	99760-00	ME4-268	28 Jun 05	30 Jun 06

Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
Measurement Software	UL	UL EMI Software	Version 9.3	01 Feb 06	NA



Leviton Mfg Co., Inc.
 Dimmer 120V60Hz Line 1
 RZM10
 Proj:06CA21437 File: MC15211
 Tested: GB Bl=Pk Grn=QPk Rd=Av

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
=====									
Range: 1 .15 - 1MHz -----									
1	.15816	40.06 pk	10	0	50.06	65.6	55.6	-	-
					Margin [dB]	-15.54	-5.54	-	-
2	.17074	39.86 pk	10	0	49.86	64.9	54.9	-	-
					Margin [dB]	-15.04	-5.04	-	-
3	.18417	41.43 pk	10	0	51.43	64.3	54.3	-	-
					Margin [dB]	-12.87	-2.87	-	-
4	.19658	40.17 pk	10	0	50.17	63.8	53.8	-	-
					Margin [dB]	-13.63	-3.63	-	-
5	.158	31.85 ave	10	0	41.85	65.6	55.6	-	-
					Margin [dB]	-23.75	-13.75	-	-
6	.171	32.49 ave	10	0	42.49	64.9	54.9	-	-
					Margin [dB]	-22.41	-12.41	-	-
7	.184	33.49 ave	10	0	43.49	64.3	54.3	-	-
					Margin [dB]	-20.81	-10.81	-	-
8	.197	32.18 ave	10	0	42.18	63.7	53.7	-	-
					Margin [dB]	-21.52	-11.52	-	-
9	.40806	39.29 pk	10	0	49.29	57.7	47.7	-	-
					Margin [dB]	-8.41	1.59	-	-
10	.47334	39.46 pk	9.9	0	49.36	56.5	46.5	-	-
					Margin [dB]	-7.14	2.86	-	-
11	.52366	38.13 pk	10	0	48.13	56	46	-	-
					Margin [dB]	-7.87	2.13	-	-
12	.407	32.78 ave	10	0	42.78	57.7	47.7	-	-
					Margin [dB]	-14.92	-4.92	-	-
13	.473	32.34 ave	9.9	0	42.24	56.5	46.5	-	-
					Margin [dB]	-14.26	-4.26	-	-
14	.525	32.72 ave	10	0	42.72	56	46	-	-
					Margin [dB]	-13.28	-3.28	-	-

LIMIT 1: FCC Part 15 Class B QPk
 LIMIT 2: FCC Part 15 Class B Avg

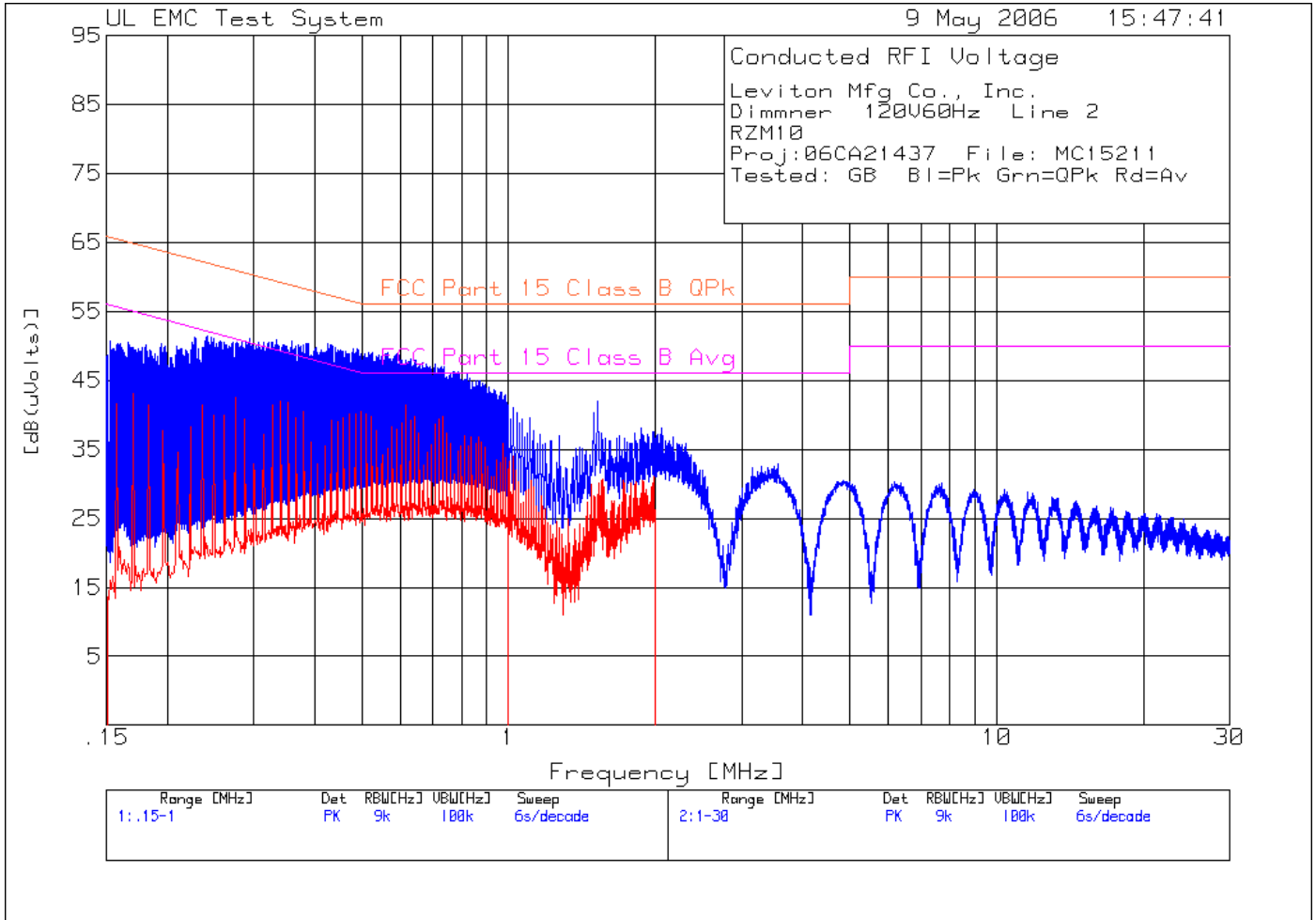
pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Leviton Mfg Co., Inc.
 Dimmer 120V60Hz Line 1
 RZM10
 Proj:06CA21437 File: MC15211
 Tested: GB Bl=Pk Grn=QPk Rd=Av

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
=====									
Range: 1 .15 - 1MHz -----									
15	.774	28.74 ave	9.9	0	38.64	56	46	-	-
					Margin [dB]	-17.36	-7.36	-	-
16	.868	26.46 ave	9.9	0	36.36	56	46	-	-
					Margin [dB]	-19.64	-9.64	-	-
17	.77424	36.67 pk	9.9	0	46.57	56	46	-	-
					Margin [dB]	-9.43	.57	-	-
18	.86791	34.83 pk	9.9	0	44.73	56	46	-	-
					Margin [dB]	-11.27	-1.27	-	-
Range: 1 1 - 30MHz -----									
19	1.04061	30.58 pk	9.9	0	40.48	56	46	-	-
					Margin [dB]	-15.52	-5.52	-	-
20	1.52211	31.64 pk	9.9	0	41.54	56	46	-	-
					Margin [dB]	-14.46	-4.46	-	-
21	1.86438	29.32 pk	9.9	0	39.22	56	46	-	-
					Margin [dB]	-16.78	-6.78	-	-
22	1.058	22.86 ave	9.9	0	32.76	56	46	-	-
					Margin [dB]	-23.24	-13.24	-	-
23	1.518	23.03 ave	9.9	0	32.93	56	46	-	-
					Margin [dB]	-23.07	-13.07	-	-
24	1.869	21.36 ave	9.9	0	31.26	56	46	-	-
					Margin [dB]	-24.74	-14.74	-	-

LIMIT 1: FCC Part 15 Class B QPk
 LIMIT 2: FCC Part 15 Class B Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result



Leviton Mfg Co., Inc.
 Dimmer 120V60Hz Line 2
 RZM10
 Proj:06CA21437 File: MC15211
 Tested: GB Bl=Pk Grn=QPk Rd=Av

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
=====									
Range: 1 .15 - 1MHz -----									
1	.15748	40.1 pk	10	0	50.1	65.6	55.6	-	-
					Margin [dB]	-15.5	-5.5	-	-
2	.16989	39.8 pk	10	0	49.8	65	55	-	-
					Margin [dB]	-15.2	-5.2	-	-
3	.1959	38.96 pk	10	0	48.96	63.8	53.8	-	-
					Margin [dB]	-14.84	-4.84	-	-
4	.23585	39.81 pk	9.9	0	49.71	62.2	52.2	-	-
					Margin [dB]	-12.49	-2.49	-	-
5	.27529	40.08 pk	10	0	50.08	61	51	-	-
					Margin [dB]	-10.92	-9.2	-	-
6	.61376	37.96 pk	10	0	47.96	56	46	-	-
					Margin [dB]	-8.04	1.96	-	-
7	.1569	31.63 ave	10	0	41.63	65.6	55.6	-	-
					Margin [dB]	-23.97	-13.97	-	-
8	.1699	33.12 ave	10	0	43.12	65	55	-	-
					Margin [dB]	-21.88	-11.88	-	-
9	.1959	27.75 ave	10	0	37.75	63.8	53.8	-	-
					Margin [dB]	-26.05	-16.05	-	-
10	.2359	31.52 ave	9.9	0	41.42	62.2	52.2	-	-
					Margin [dB]	-20.78	-10.78	-	-
11	.2749	32.46 ave	10	0	42.46	61	51	-	-
					Margin [dB]	-18.54	-8.54	-	-
12	.6159	31.52 ave	9.9	0	41.42	56	46	-	-
					Margin [dB]	-14.58	-4.58	-	-
13	.7339	29.81 ave	9.9	0	39.71	56	46	-	-
					Margin [dB]	-16.29	-6.29	-	-
14	.72783	37.14 pk	9.9	0	47.04	56	46	-	-
					Margin [dB]	-8.96	1.04	-	-

LIMIT 1: FCC Part 15 Class B QPk
 LIMIT 2: FCC Part 15 Class B Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Leviton Mfg Co., Inc.
 Dimmer 120V60Hz Line 2
 RZM10
 Proj:06CA21437 File: MC15211
 Tested: GB Bl=Pk Grn=QPk Rd=Av

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
=====									
Range: 1 1 - 30MHz -----									
15	1.02321	31.12 pk	9.9	0	41.02	56	46	-	-
					Margin [dB]	-14.98	-4.98	-	-
16	1.12183	27.83 pk	9.9	0	37.73	56	46	-	-
					Margin [dB]	-18.27	-8.27	-	-
17	1.26686	27.09 pk	9.9	0	36.99	56	46	-	-
					Margin [dB]	-19.01	-9.01	-	-
18	1.4931	30.4 pk	9.9	0	40.3	56	46	-	-
					Margin [dB]	-15.7	-5.7	-	-
19	1.52211	32.14 pk	9.9	0	42.04	56	46	-	-
					Margin [dB]	-13.96	-3.96	-	-
Range: 1 1 - 30MHz -----									
20	1.9862	27.67 pk	9.9	0	37.57	56	46	-	-
					Margin [dB]	-18.43	-8.43	-	-
21	1.019	24.04 ave	9.9	0	33.94	56	46	-	-
					Margin [dB]	-22.06	-12.06	-	-
22	1.111	20.54 ave	9.9	0	30.44	56	46	-	-
					Margin [dB]	-25.56	-15.56	-	-
23	1.256	14.57 ave	9.9	0	24.47	56	46	-	-
					Margin [dB]	-31.53	-21.53	-	-
24	1.492	18.35 ave	9.9	0	28.25	56	46	-	-
					Margin [dB]	-27.75	-17.75	-	-
25	1.519	18.57 ave	9.9	0	28.47	56	46	-	-
					Margin [dB]	-27.53	-17.53	-	-
26	1.982	21.23 ave	9.9	0	31.13	56	46	-	-
					Margin [dB]	-24.87	-14.87	-	-

LIMIT 1: FCC Part 15 Class B QPk
 LIMIT 2: FCC Part 15 Class B Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result



Model RZM10

Conducted Emissions Test Set-Up

TEST TITLE: Radiated Emissions Test

METHOD

Measurements were made in a 10-meter semi-anechoic chamber that complies to ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at 1, 2, 3 and 4 meter 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.

One fully configured sample was scanned over the following frequency range:

Electric fields:	30MHz - 1GHz	(3 meter measurement distance)
	1GHz - 10GHz	(3 meter measurement distance)

Mode*		
Power	Operation	Configuration
1	1	1

*See Power Interface EUT Operating Modes and Configurations for details

Spectrum Analyzer Settings				
Measurement Frequency	Preliminary Peak Scan		Final Detection	
	Resolution Bandwidth	Video Bandwidth	Quasi-Peak Bandwidth	Average Video Bandwidth
9kHz to 150kHz	10kHz	1MHz	200Hz	1Hz
150kHz to 30MHz	100kHz	1MHz	9kHz	1Hz
30 to 1000MHz	1MHz	1MHz	120kHz	1Hz

The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	10 to 40	°C
Relative Humidity	10 to 90	%

Section 15.209 Limits: Spurious Emissions

Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-88	40	-
88-216	43.5	-
216-960	46	-
960-10000	-	54

Limits 15.249 (a): Fundamental & Harmonics

Frequency (MHz)	Limit (dB μ V/m)	
	Quasi-Peak	Average
908.42	94	-
908-1000	54	-
1000-10000	-	54

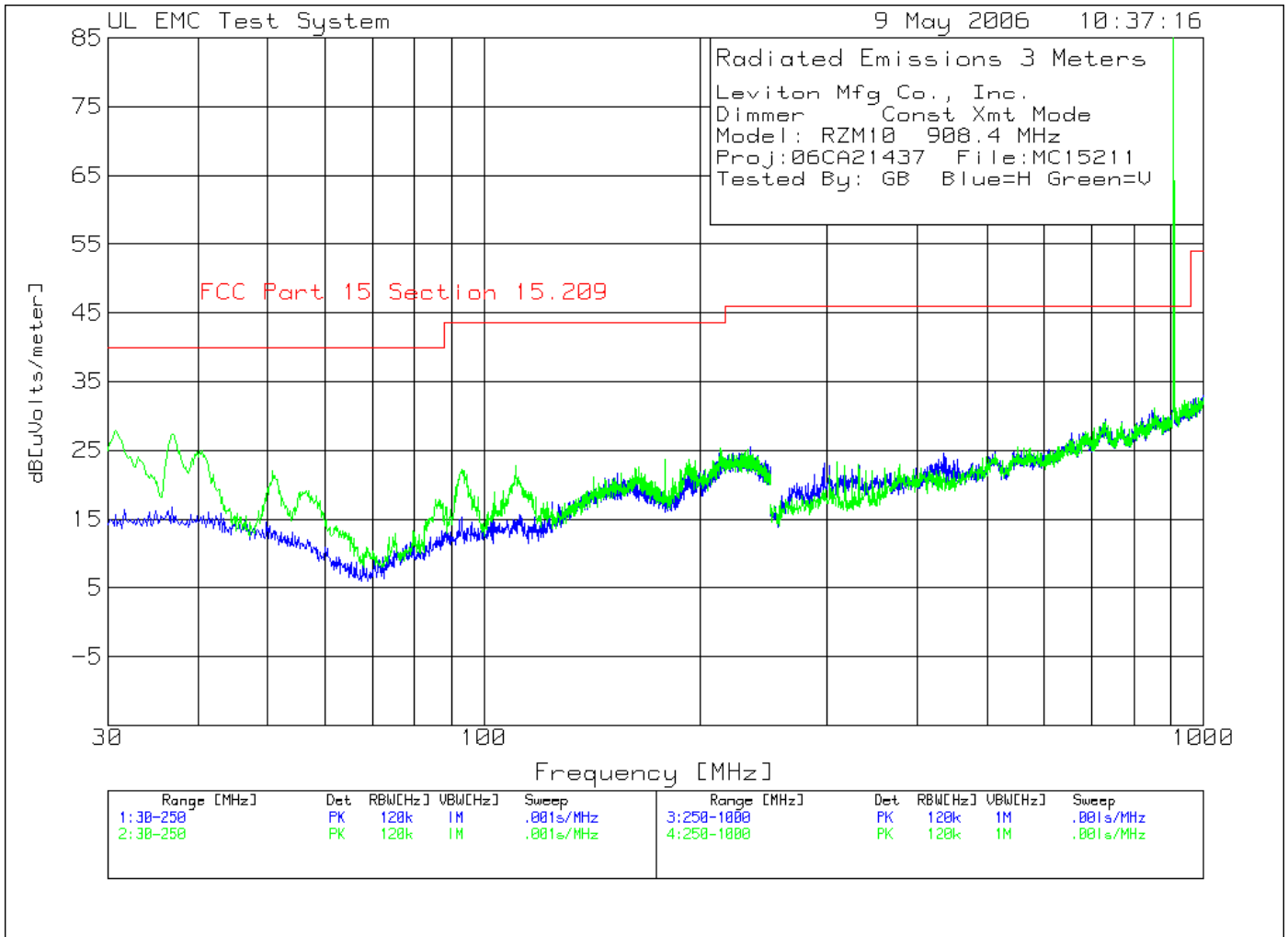
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	20.0	°C
Humidity:	44	%RH
Pressure:	1013	Mbar
Test Date	09 May 2006	

The results of this test **complied** with the requirements.

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwartz	ESIB 40	34968	28 Nov 05	28 Nov 06
Biconical Antenna	Ailtech	94455-1	ME5-439	14 Dec 05	31 Dec 06
Log Periodic Antenna	EMCO	3146	ME5-451	19 Dec 05	31 Dec 06
Horn Antenna	Electro-metrics	RGA-180	ME5-565	20 Jul 05	31 Jul 06
Hygrometer/Temp/Barometer	Cole-Parmer	99760-00	ME4-268	28 Jun 05	30 Jun 06

Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
1-26GHz Pre-Amp	Hewlett Packard	8449B	ME5-914	12 Sep 05	30 Sep 06
Measurement Software	UL	UL EMI Software	Version 9.3	01 Feb 06	NA

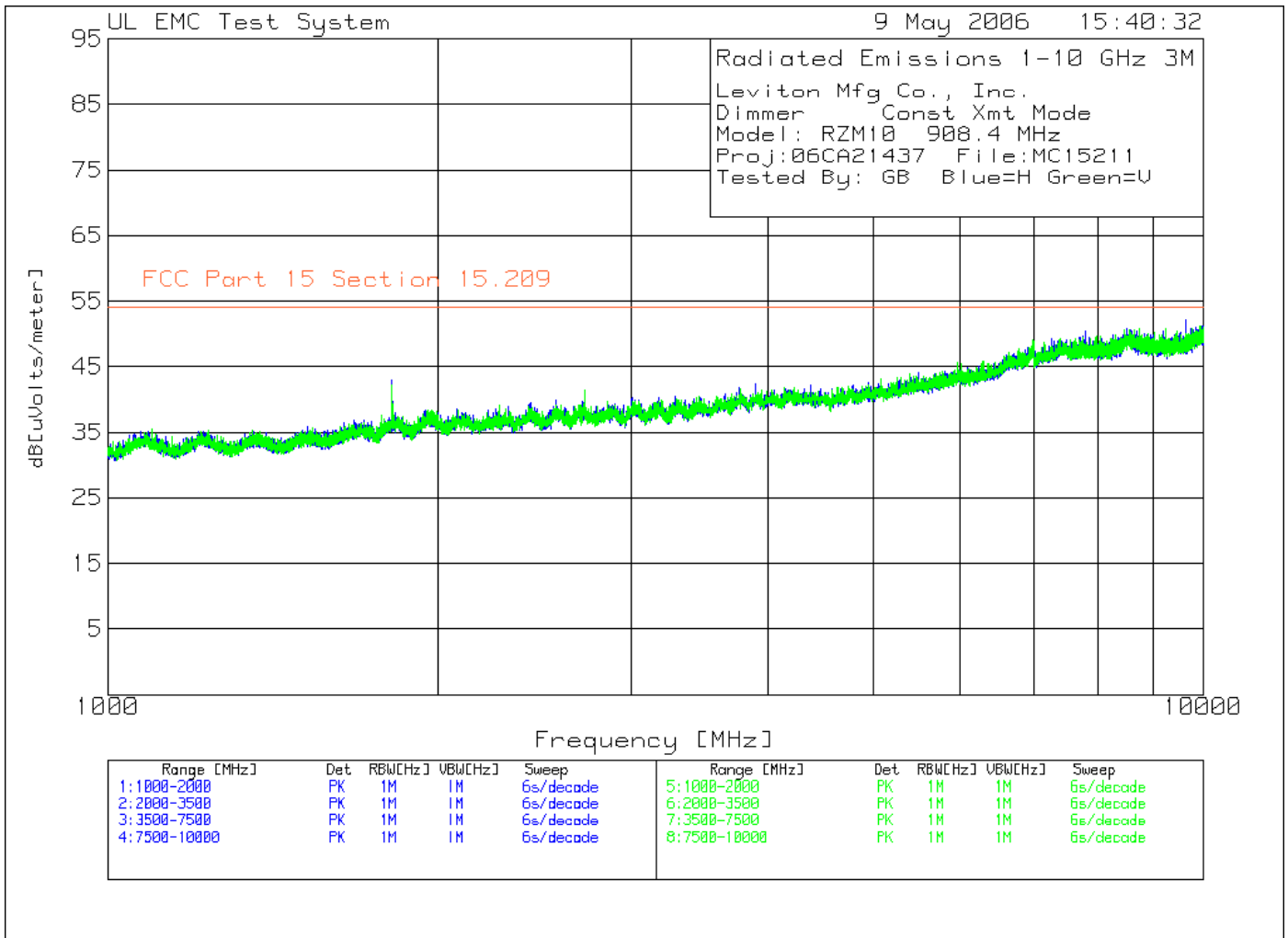


Leviton Mfg Co., Inc.
 Dimmer Const Xmt Mode
 Model: RZM10 908.4 MHz
 Proj:06CA21437 File:MC15211
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
Vertical 30 - 250MHz -----									
1	30.7338	13.75 pk	.3	13.8	27.85	40	-	-	-
	Azimuth:190	Height:101	Vert	Margin [dB]		-12.15	-	-	-
2	36.7512	13.19 pk	.3	13.9	27.39	40	-	-	-
	Azimuth:317	Height:101	Vert	Margin [dB]		-12.61	-	-	-
3	40.2735	11.03 pk	.3	13.6	24.93	40	-	-	-
	Azimuth:17	Height:101	Vert	Margin [dB]		-15.07	-	-	-
4	178.5257	8.46 pk	1.2	14	23.66	43.5	-	-	-
	Azimuth:148	Height:101	Vert	Margin [dB]		-19.84	-	-	-
Horizontal 250 - 1000MHz -----									
5	908.4047	62.89 qp	3.5	22.5	88.89	46	94	-	-
	Azimuth: 337	Height:115	Vert	Margin [dB]:		42.89	-5.11	-	-
Vertical 250 - 1000MHz -----									
6	908.439	61.12 pk	3.5	22.5	87.12	46	94	-	-
	Azimuth:168	Height:101	Vert	Margin [dB]		41.12	-6.88	-	-

LIMIT 1: FCC Part 15 Class B
 LIMIT 2: FCC Part 15 Section 15.249

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

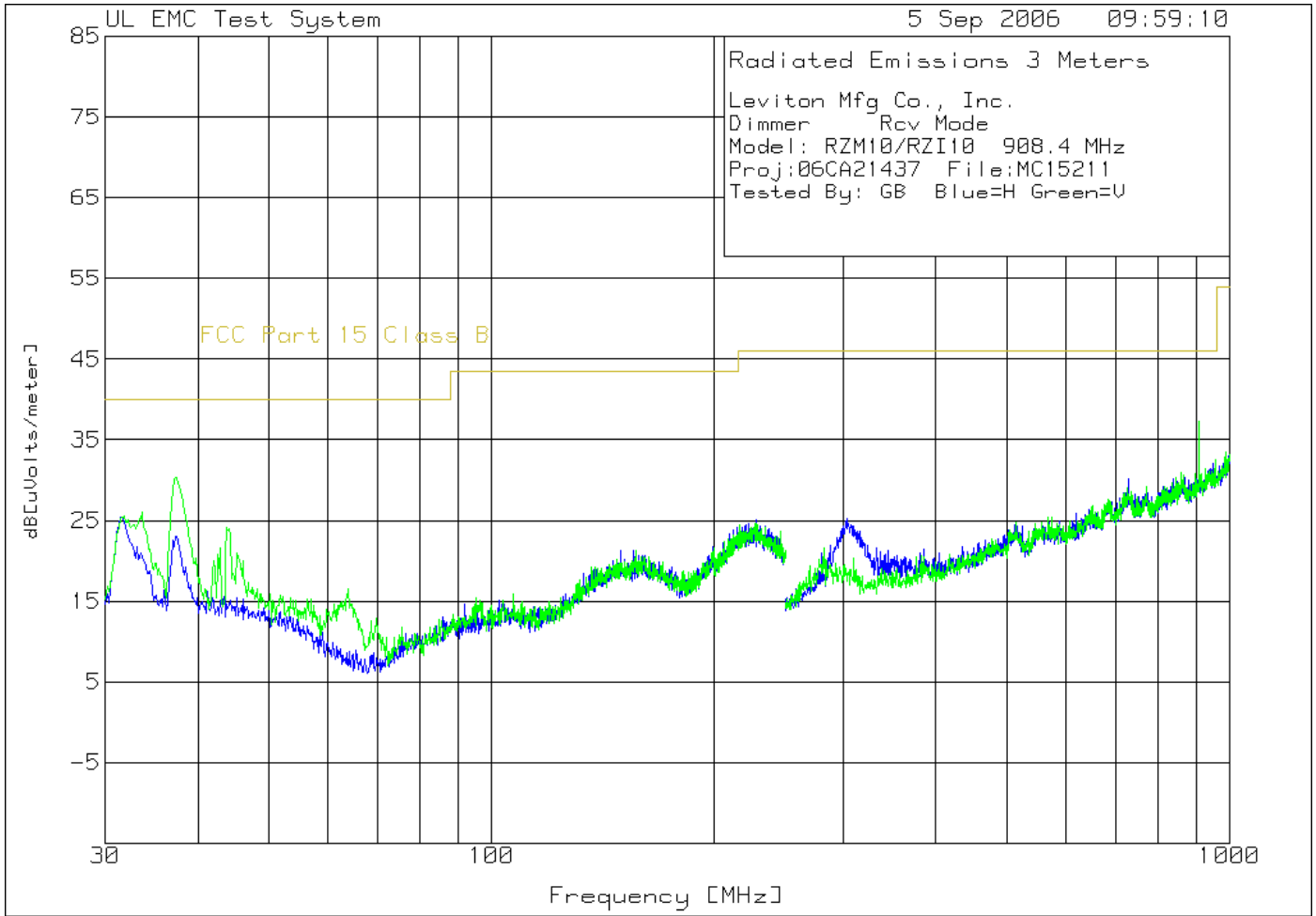


Leviton Mfg Co., Inc.
 Dimmer Const Xmt Mode
 Model: RZM10 908.4 MHz
 Proj:06CA21437 File:MC15211
 Tested By: GB Blue=H Green=V

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
Horizontal 1000 - 2000MHz								
1816.6495	38.19 ave	-28.8	26.6	35.99	54	-	-	-
Azimuth: 73 Height:103 Horz			Margin [dB]:		-18.01	-	-	-
Horizontal 3500 - 7500MHz								
3632.7112	27.18 ave	-26.6	31.6	32.18	54	-	-	-
Azimuth: 176 Height:104 Horz			Margin [dB]:		-21.82	-	-	-
Horizontal 7500 - 10000MHz								
7794.265	26.32 ave	-20	36.8	43.12	54	-	-	-
Azimuth: 33 Height:159 Horz			Margin [dB]:		-10.88	-	-	-
9637.379	25.4 ave	-19.7	38.5	44.2	54	-	-	-
Azimuth: 75 Height:195 Horz			Margin [dB]:		-9.8	-	-	-
Vertical 1000 - 2000MHz								
1816.8061	42.62 ave	-28.8	26.6	40.42	54	-	-	-
Azimuth: 252 Height:101 Vert			Margin [dB]:		-13.58	-	-	-
Vertical 2000 - 3500MHz								
2725.2	33.4 ave	-27.7	29.3	35	54	-	-	-
Azimuth: 118 Height:109 Vert			Margin [dB]:		-19	-	-	-
Vertical 3500 - 7500MHz								
3632.044	27.22 ave	-26.6	31.6	32.22	54	-	-	-
Azimuth: 1 Height:121 Vert			Margin [dB]:		-21.78	-	-	-
Vertical 7500 - 10000MHz								
7995.999	26.29 ave	-20.2	36.9	42.99	54	-	-	-
Azimuth: 56 Height:115 Vert			Margin [dB]:		-11.01	-	-	-
9237.246	25.2 ave	-20	38.2	43.4	54	-	-	-
Azimuth: 93 Height:151 Vert			Margin [dB]:		-10.6	-	-	-

LIMIT 1: FCC Part 15 Section 15.249

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

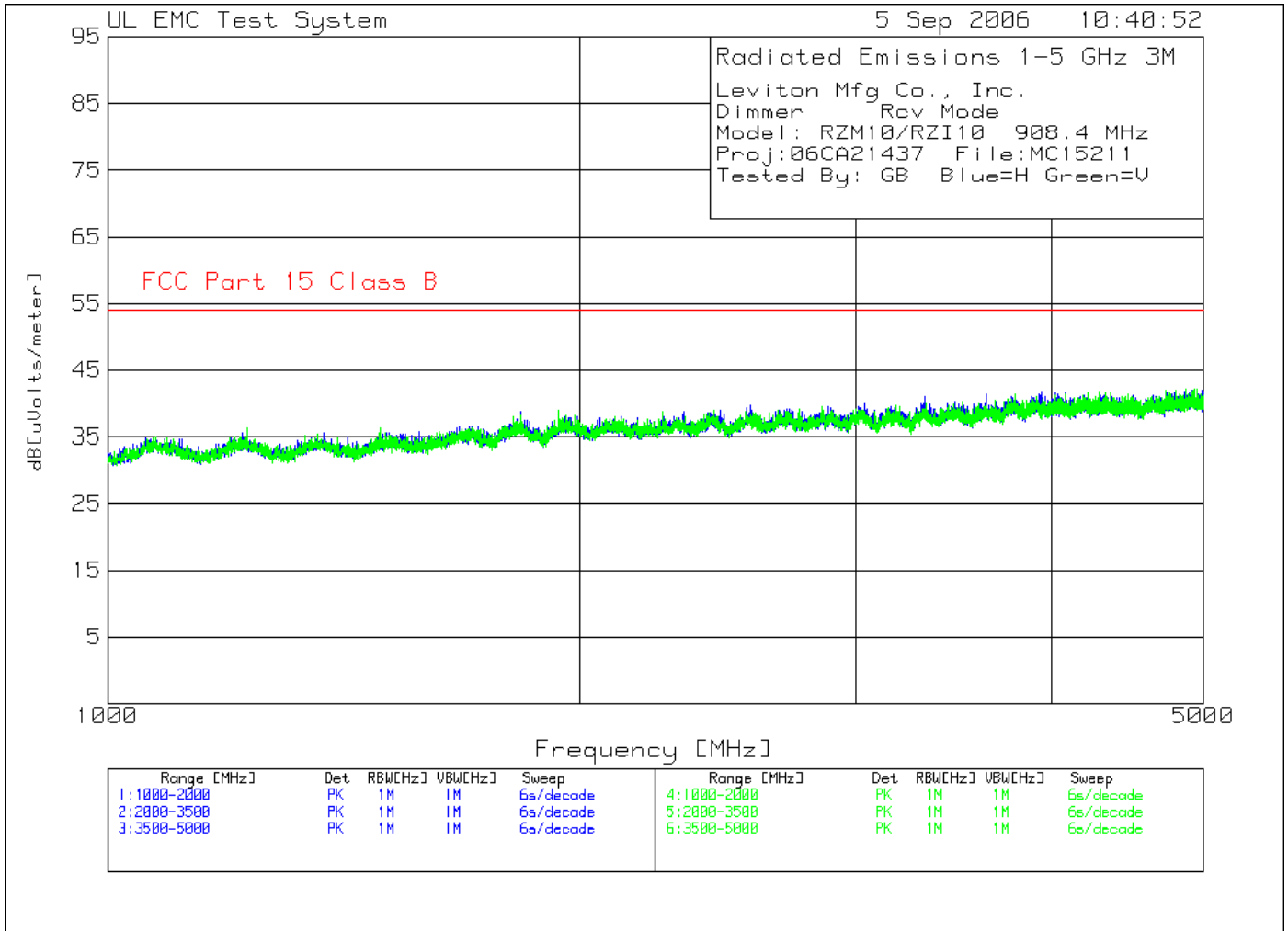


Leviton Mfg Co., Inc.
 Dimmer Rcv Mode
 Model: RZM10/RZI10 908.4 MHz
 Proj:06CA21437 File:MC15211
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
Horizontal 30 - 250MHz -----									
1	31.4676	11.33 pk	.3	13.8	25.43	40	-	-	-
	Azimuth:329	Height:399	Horz	Margin [dB]		-14.57	-	-	-
Vertical 30 - 250MHz -----									
2	33.6691	11.89 pk	.3	13.9	26.09	40	-	-	-
	Azimuth:102	Height:101	Vert	Margin [dB]		-13.91	-	-	-
3	37.3382	16.17 pk	.3	13.8	30.27	40	-	-	-
	Azimuth:138	Height:101	Vert	Margin [dB]		-9.73	-	-	-
4	43.7959	10.6 pk	.4	13.1	24.1	40	-	-	-
	Azimuth:17	Height:101	Vert	Margin [dB]		-15.9	-	-	-
Horizontal 250 - 1000MHz -----									
5	302.535	8.89 pk	1.5	14.8	25.19	46	-	-	-
	Azimuth:247	Height:101	Horz	Margin [dB]		-20.81	-	-	-
Vertical 250 - 1000MHz -----									
6	908.439	11.31 pk	3.5	22.5	37.31	46	-	-	-
	Azimuth:22	Height:101	Vert	Margin [dB]		-8.69	-	-	-

LIMIT 1: FCC Part 15 Class B

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

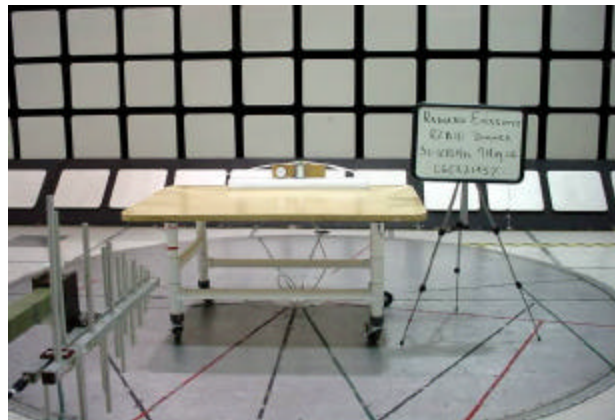


Leviton Mfg Co., Inc.
 Dimmer Rcv Mode
 Model: RZM10/RZI10 908.4 MHz
 Proj:06CA21437 File:MC15211
 Tested By: GB Blue=H Green=V

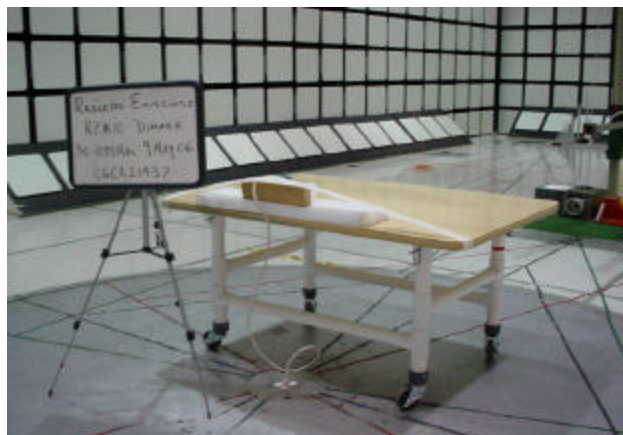
No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
Horizontal 1000 - 2000MHz -----									
4	1836.279	40.93 pk	-28.8	26.6	38.73	54	-	-	-
	Azimuth:28	Height:101	Horz	Margin [dB]		-15.27	-	-	-
Horizontal 2000 - 3500MHz -----									
5	3318.94	37.82 pk	-27.5	30.8	41.12	54	-	-	-
	Azimuth:181	Height:101	Horz	Margin [dB]		-12.88	-	-	-
Horizontal 3500 - 5000MHz -----									
6	3637.046	36.39 pk	-26.6	31.6	41.39	54	-	-	-
	Azimuth:269	Height:101	Horz	Margin [dB]		-12.61	-	-	-
Vertical 1000 - 2000MHz -----									
1	1092.364	41.92 pk	-31.5	24.4	34.82	54	-	-	-
	Azimuth:17	Height:101	Vert	Margin [dB]		-19.18	-	-	-
2	1227.076	42.66 pk	-30.9	24.6	36.36	54	-	-	-
	Azimuth:358	Height:101	Vert	Margin [dB]		-17.64	-	-	-
3	1493.831	41.38 pk	-30.2	25.1	36.28	54	-	-	-
	Azimuth:14	Height:101	Vert	Margin [dB]		-17.72	-	-	-

LIMIT 1: FCC Part 15 Class B

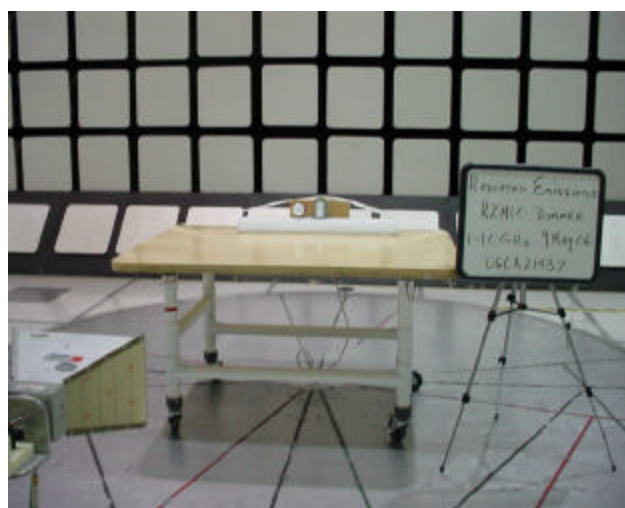
pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result



Model RZM10 – Front View 30-1000MHz



Model RZM10 – Rear View 30-1000MHz



Model RZM10 – Front View 1-10GHz

Radiated Emissions Test Set-up

TEST TITLE: Occupied Bandwidth-

METHOD

The bandwidth of the emissions shall be no wider than 0.99% of the center frequency for the devices operating at 908.42 MHz. The bandwidth is determined at the points 20 dB down from the modulated carrier. The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter as either the fundamental frequency or the first order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case bandwidth. If no bandwidth requirement is specified by the procuring or regulatory agency, measure the bandwidth at -26 Db with respect to the reference level.

In order to measure the modulated signal properly, a resolution bandwidth that is small compared with the bandwidth required by the procuring or regulatory agency shall be used on the measuring instrument. However, the resolution bandwidth of the measuring instrument shall be set to a value greater than 5% of the bandwidth requirement. When no bandwidth requirements are specified, the minimum resolution bandwidth of the measuring is given in the following table:

Fundamental Frequency	Minimum Resolution Bandwidth
9KHz to 30MHz	1KHz
30 to 1000MHz	10KHz
1000 MHz to 40GHz	100KHz

Bandwidth = (99%) 908.42MHz = 899.3KHz

Mode*		
Power	Operation	Configuration
1	1	1

*See Power Interface EUT Operating Modes and Configurations for details

The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	10 to 40	°C
Relative Humidity	10 to 90	%

Limits		
Frequency (MHz)	Limit KHz	Measured (KHz)
908.42	899.3	462

RESULTS

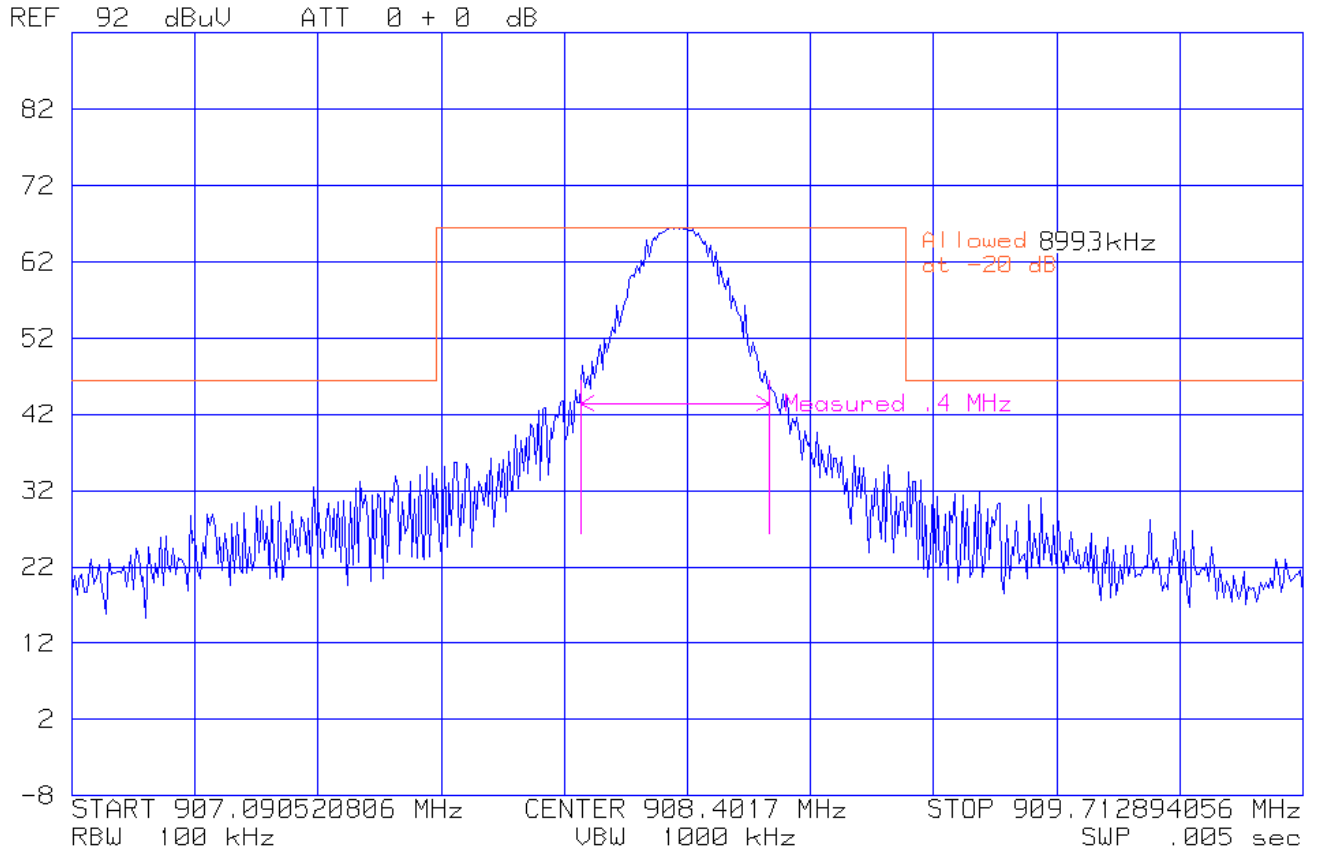
Ambient Conditions at the time of test.	Value	Units
Temperature:	20	°C
Humidity:	44	%RH
Pressure:	1012	Mbar
Test Date	10 May 2006	

The results of this test **complied** with the requirements.

Project Number: 06CA21437 File Number MC15211
 Model Number: RZM10 and RZI10
 FCC ID: QGH-RZD10

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwartz	ESIB 26	ME5B-081	11 Oct 05	11 Oct 06
Dipole Antenna	ElectroMetrics	3121C-D134	5751	16 Aug 05	31 Aug 06
Hygrometer/Temp/Barometer	Cole -Parmer	99760-00	ME4-268	28 Jun 05	30 Jun 06

Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/ Valid Date	Due
Measurement Software	UL	UL EMI Software	Version 9.3	--	NA



Occupied Bandwidth RZM10



Model RZM10

Occupied Bandwidth Test Set-Up

TEST TITLE: Supply Voltage Variation Versus Transmit Output Power

METHOD

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the minimal rated supply voltage. For battery operated equipment the equipment test shall be performed using a new battery.

Mode*		
Power	Operation	Configuration
1	1	1

*See Power Interface EUT Operating Modes and Configurations for details

Spectrum Analyzer Settings				
Measurement Frequency	Preliminary Peak Scan		Final Detection	
	Resolution Bandwidth	Video Bandwidth	Quasi-Peak Bandwidth	Average Video Bandwidth
9kHz to 150kHz	10kHz	10kHz	200Hz	1Hz
150kHz to 30MHz	100kHz	100kHz	9kHz	1Hz

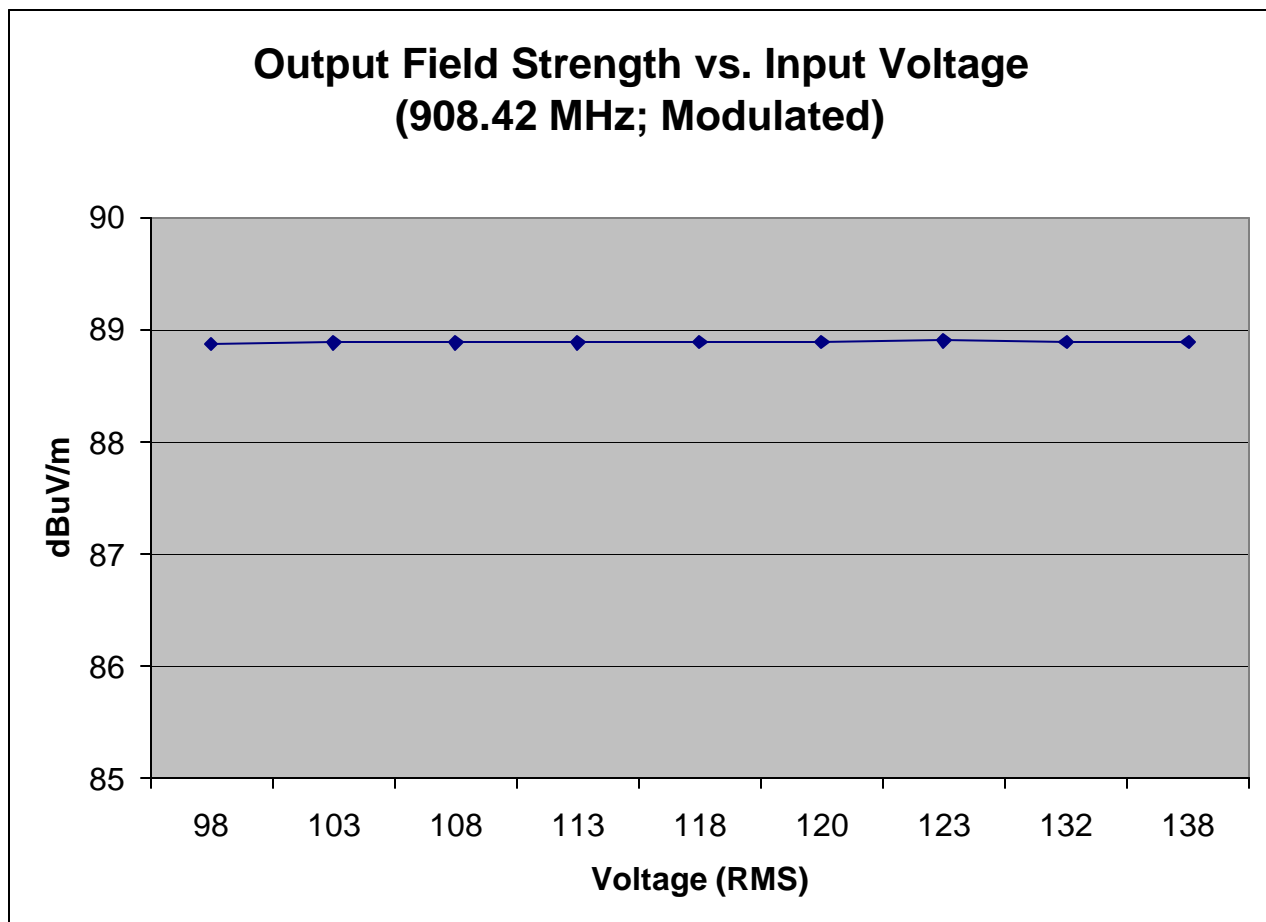
The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	10 to 40	°C
Relative Humidity	10 to 90	%

15.249 Limits

Input Voltage Level (RMS) @ 908.42MHz	Measured @ 3 Meters (dB μ V/m)	Limit @ 3 Meters (dB μ V/m)	Max Delta @ 3 meters (dB μ V/m)
98	88.87	94	5.13
103	88.88	94	5.12
108	88.88	94	5.12
113	88.88	94	5.12
118	88.89	94	5.11
120	88.89	94	5.11
123	88.9	94	5.1
132	88.89	94	5.11
138	88.89	94	5.11

Met the results in FCC Part 2.1055 (4d)



RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	20	°C
Humidity:	44	%RH
Pressure:	1013	Mbar
Test Date	09 May 2006	

The results of this test **complied** with the requirements.

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwartz	ESIB 40	34968	28 Nov 05	28 Nov 06
Biconical Antenna	Ailtech	94455-1	ME5-439	14 Dec 05	31 Dec 06
Log Periodic Antenna	EMCO	3146	ME5-451	19 Dec 05	31 Dec 06
Horn Antenna	Electro-metrics	RGA-180	ME5-565	20 Jul 05	31 Jul 06
Hygrometer/Temp/Baro meter	Cole-Parmer	99760-00	ME4-268	28 Jun 05	30 Jun 06

Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
AC Power Source	Pacific Power	360-AMX	ME7A-626	--	--
1-26GHz Pre-Amp	Hewlett Packard	8449B	ME5-914	12 Sep 05	30 Sep 06
Measurement Software	UL	UL EMI Software	Version 9.3	01 Feb 06	NA

TEST TITLE: Transmission On Time (Duty Cycle) Paragraph 15.35

METHOD

When the Radiated Limits are expressed in terms of the average value of the emissions, and pulse operation is employed, the pulse measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds (100ms) or in cases where the pulse train exceeds 0.1seconds the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

Mode*		
Power	Operation	Configuration
1	1	1

*See Power Interface EUT Operating Modes and Configurations for details

Spectrum Analyzer Settings				
Measurement Frequency	Preliminary Peak Scan		Final Detection	
	Resolution Bandwidth	Video Bandwidth	Quasi-Peak Bandwidth	Average Video Bandwidth
9kHz to 150kHz	10kHz	10kHz	200Hz	1Hz
150kHz to 30MHz	100kHz	100kHz	9kHz	1Hz

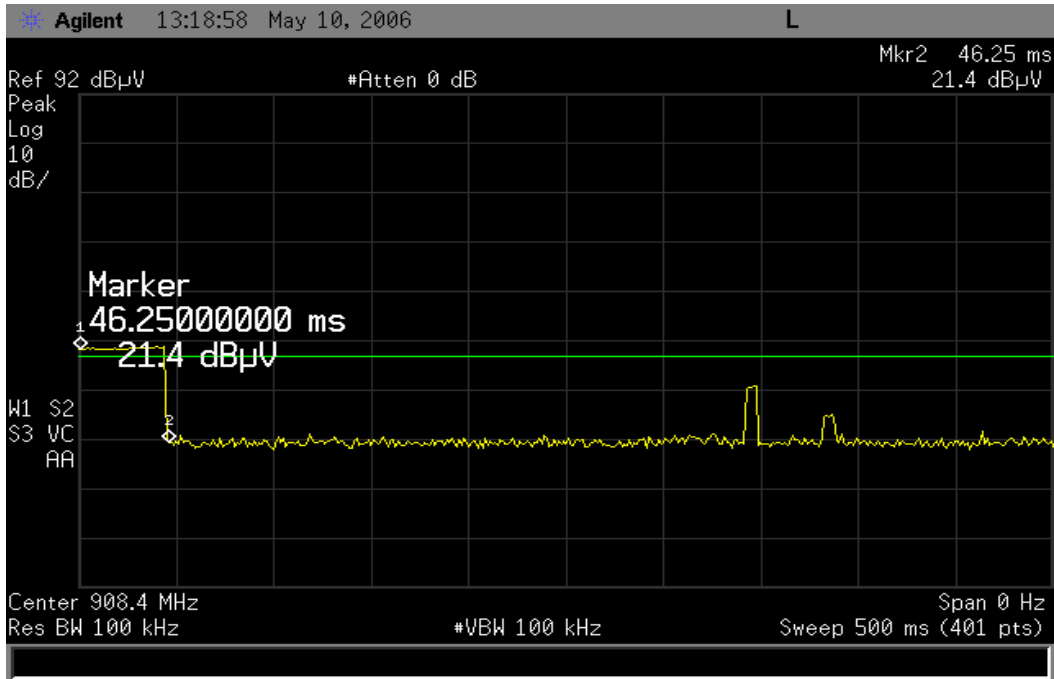
The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	10 to 40	°C
Relative Humidity	10 to 90	%

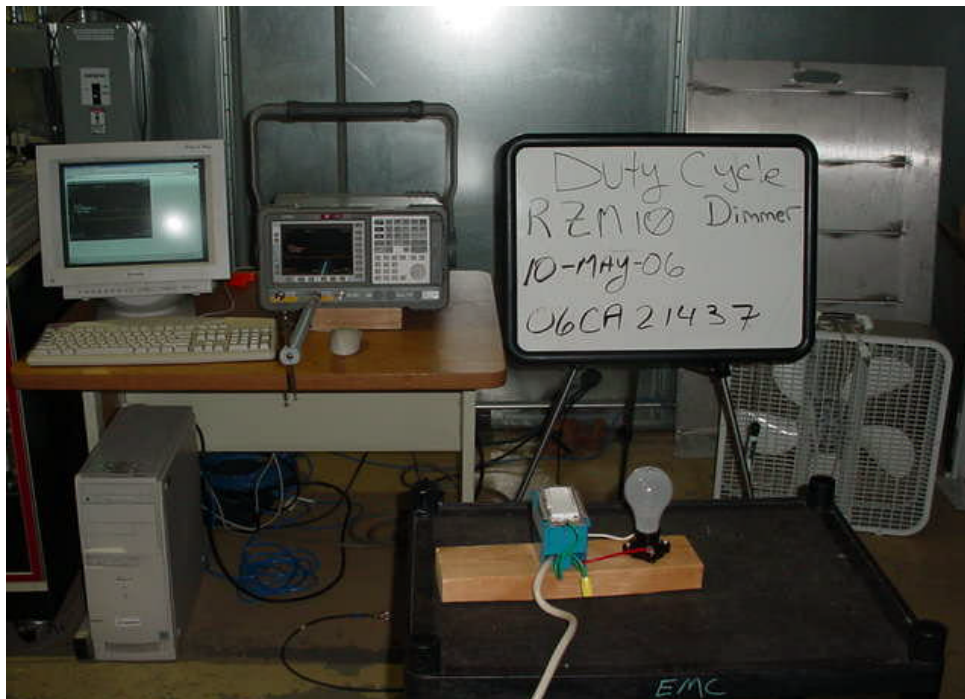
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	20	°C
Humidity:	44	%RH
Pressure:	1012	Mbar
Test Date	10 May 2006	

The results of this test **complied** with the requirements.



Transmission On Time



Model RZM10

Duty Cycle Test Set-Up

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Dipole Antenna	ElectroMetrics	3121C-D134	5751	16 Aug 05	31 Aug 06
EMI Spectrum Analyzer	Agilent Technologies	E7402A	ME5B-123	3 Oct. 05	31 Oct. 06
Hygrometer/Temp/Barometer	Cole-Parmer	99760-00	ME4-268	28 Jun 05	30 Jun 06

Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
Measurement Software	UL	UL EMI Software	Version 9.3	-	NA

TEST TITLE: Fundamental Frequency and Spurious Emissions Measurement Limit Calculations

Limit Calculation

Fundamental Frequency is MHz

$$\text{Limit} = 20 * \log (\text{mV/m})$$

$$\text{Limit} = 20 * \log (50000)$$

$$\text{Limit} = 94\text{dBuV}$$

From table in section 15.209

$$\text{Limit for Spurious Emissions} = 20\text{dB lower then fundamental} = \text{dBuV/m}$$

Fundamental Frequency is 902-928MHz

$$\text{Limit} = 20 * \log (\text{uV/m})$$

$$\text{Limit} = 20 * \log (500)$$

$$\text{Limit} = 54\text{dBuV}$$

$$\text{Limit for Harmonic Emissions} = 50\text{dB lower then fundamental} = 54\text{dBuV/m}$$

Radiated Emissions Limit conversion from mV/m to dBmV/m (accordance with paragraph 15.109)

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

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

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

Radiated Emissions test data obtained during measurements.

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

$$\text{Field Strength (dB}\mu\text{V/m)} = 19.7\text{dB}\mu\text{V/m} + 12.5\text{dB} + 0.3\text{dB}$$

$$\text{Field Strength (dB}\mu\text{V/m)} = 32.5$$

Duty Cycle factor calculation.

Total number of pulses counted in 100ms.

Total time on = 42.25ms

$$\text{Duty cycle correction factor} = 20 \log (46.25\text{ms} / 100\text{ms})$$

$$= 20 \log (0.4625)$$

$$= - 6.7\text{dB}$$

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100255-0

NVLAP: Recognized under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC EN17025 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1002550.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland and accepted in a letter dated September 24, 1997 (Ref. No. 91040).



Industry Canada Industrie Canada

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



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: (Radiated Emissions) R-797, (Conducted Emissions) C-832, C-833, C-834 and (Conducted Emissions - Telecommunications Ports) T-160.



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.

U.S. Identifier Number: US0113