



EMC

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Project: 06ME09603
File: MC15211
Date: 20 March 2007
Revision Date: 18 July 2007
Model: RZCPG
FCCID: QGH-RZCPG

Electromagnetic Compatibility Test Report

For

LEVITON MFG CO INC

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to public safety and committed to
quality service for over 100 years

Project Number: 06ME09603
Model Number: RZCPG
FCC ID: QGH-RZCPG

File Number MC15211

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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: **20 March 2007**
Revision Test Report Date: **18 July 2007**

Product Type: **Handheld Controller**

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

Model Number: **RZCPG**

Sample Serial Number: **Prototype**

Sample Tag Number: **0884112001**

Sample Receive Date: **7/24/06**

EUT Category: **Transceiver**

Testing Start Date: **24 July 2006**

Date Testing Complete: **18 July 2007**

Overall Results: Compliant

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

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
18 July 2007	Add comments on antenna, Occupied BW remove typo's and correct page number sequence	Joseph Danisi	Bob DeLisi

1.0 GENERAL - Product Description

The EUT is a RF programmer/timer remote controller for installation and control of a Z-wave system, which acts as a programmer, zone or scene controller remote for setting up and operating a RF network. It may also be utilized as a wireless controller for controlling your lighting system.

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

1.1 Device Configuration During Test

The device under test was tested in normal orientation, which is positioned in a Z-axis position that represents the worst-case orientation.

The Transmit antenna is permanently attached to the RZCPG Transmitter. The transmit antenna type is a PCB trace antenna.

1.1.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Comments
EUT	Handheld Controller	Leviton	004-RZCPG-1LG	-
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
0.032768	Oscillator	12	Oscillator
908.42	Fundamental	100	Clock

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
2	-	-	-	DC	-	AA Batteries

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

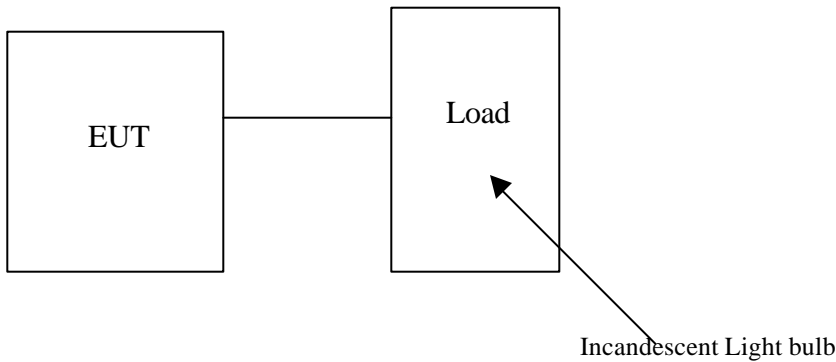
1.3 EUT Configuration Modes:

Mode #	Description
1	Transmitter AC power
2	Transmitter Battery Power

"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: 24 July 2006
Test Completion Date: 18 July 2007



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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:

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 C, Radio Frequency Devices: 2006
Radio Standards Specification 210, Issue 6	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. 2005

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 (dB μ V)	
	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:	22	°C
Humidity:	34	%RH
Pressure:	1002	Mbar
Test Date	24 July 2006	

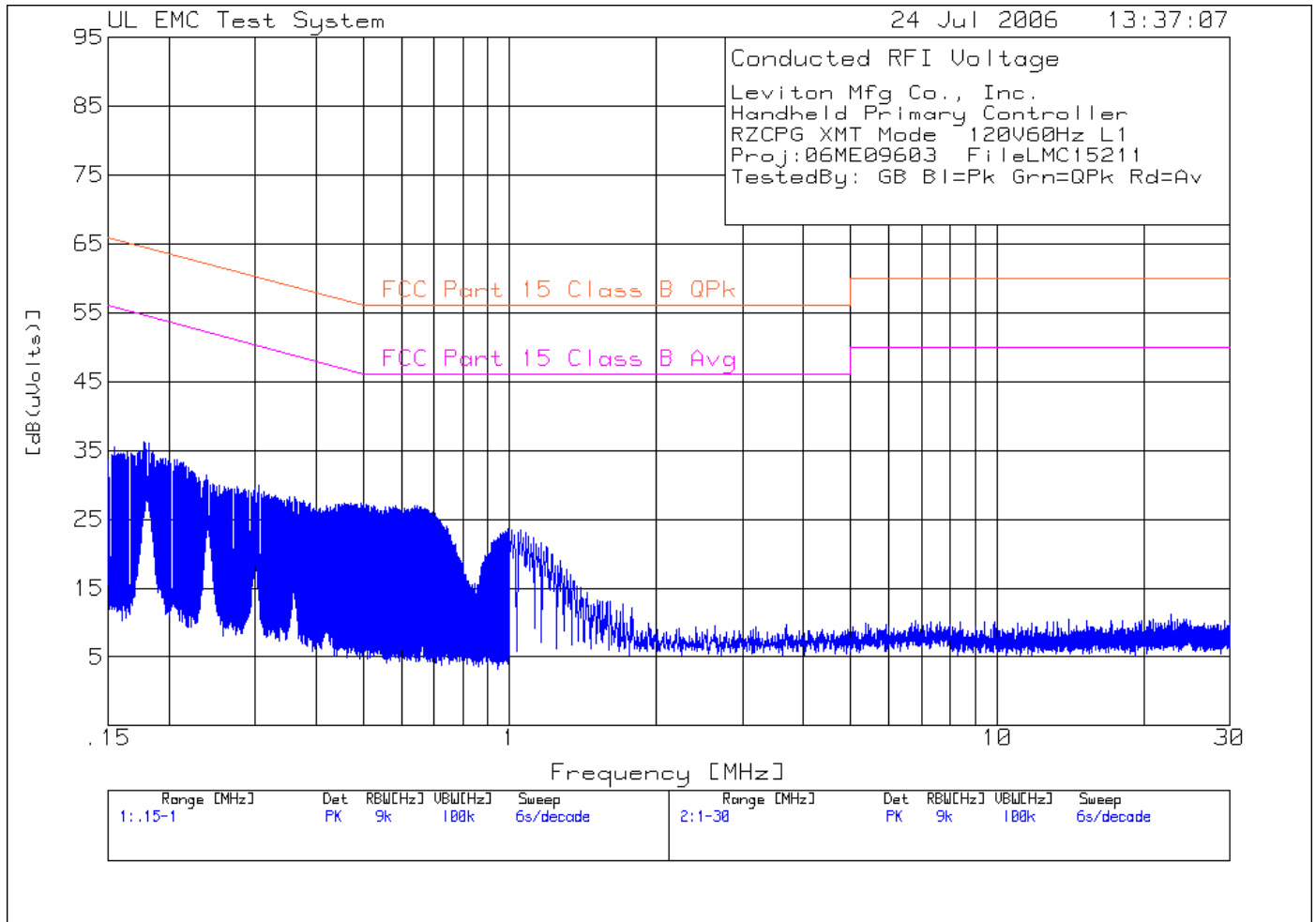
The results of this test **complied** with the requirements.

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
50 Ω 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	16 May 06	31 May 07

Test Accessories Used

Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
Measurement Software	UL	UL EMI Software	Version 9.3	06 June 06	NA

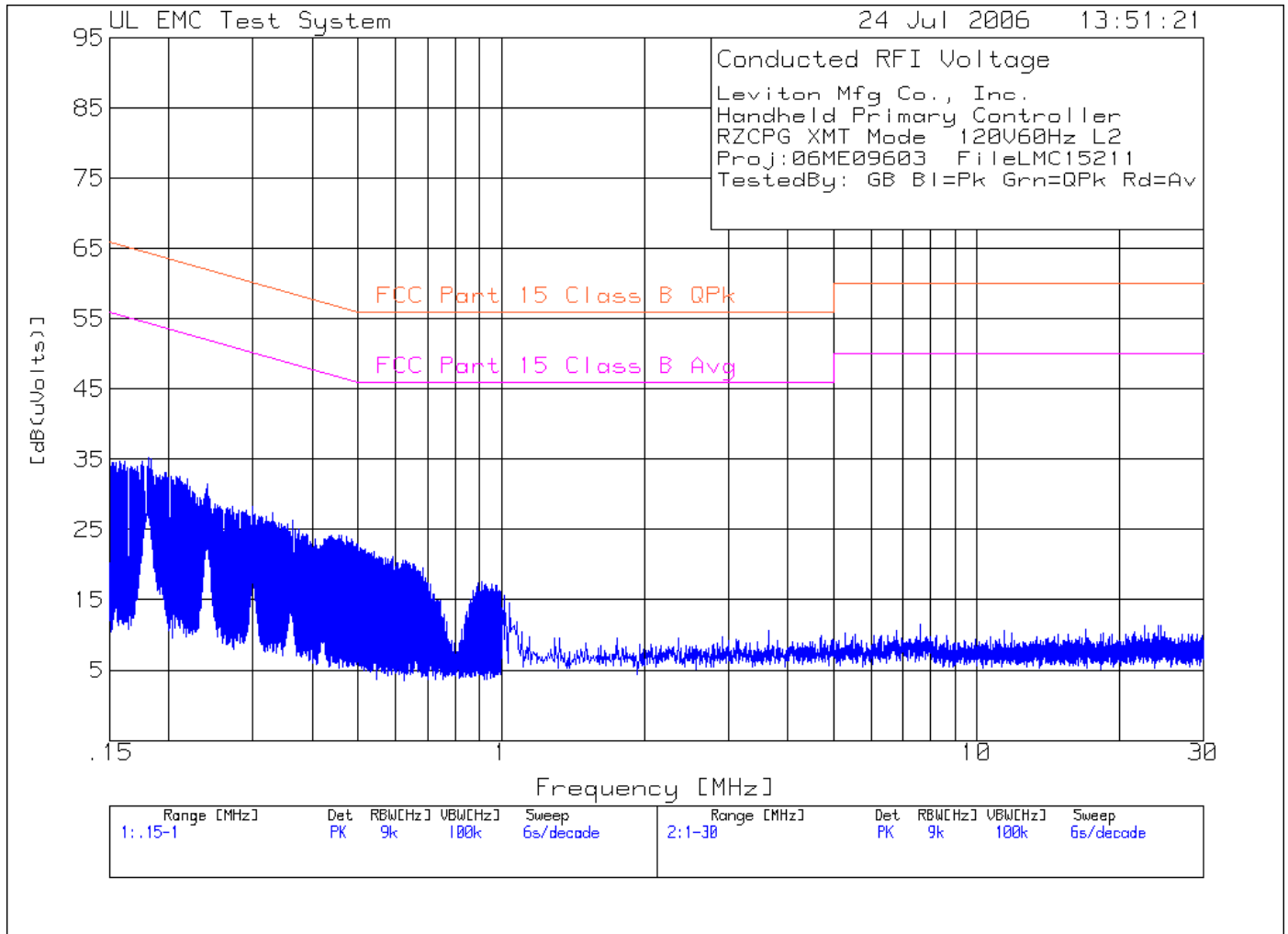


Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG XMT Mode 120V60Hz L1
 Proj:06ME09603 FileLMC15211
 TestedBy: GB Bl=Pk Grn=QPk Rd=Av

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	.15408	25.47 pk	10	0	35.47	65.8	55.8	-	-
				Margin [dB]		-30.33	-20.33	-	-
2	.17788	26.29 pk	10	0	36.29	64.6	54.6	-	-
				Margin [dB]		-28.31	-18.31	-	-
3	.18213	26.22 pk	9.9	0	36.12	64.4	54.4	-	-
				Margin [dB]		-28.28	-18.28	-	-
4	.23891	21.47 pk	10	0	31.47	62.1	52.1	-	-
				Margin [dB]		-30.63	-20.63	-	-
5	.30487	19.94 pk	10	0	29.94	60.1	50.1	-	-
				Margin [dB]		-30.16	-20.16	-	-
Range: 1 1 - 30MHz -----									
6	1.0116	13.61 pk	9.9	0	23.51	56	46	-	-
				Margin [dB]		-32.49	-22.49	-	-

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.
 Handheld Primary Controller
 RZCPG XMT Mode 120V60Hz L2
 Proj:06ME09603 FileLMC15211
 TestedBy: 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	.16139	24.83 pk	9.9	0	34.73	65.4	55.4	-	-
				Margin [dB]		-30.67	-20.67	-	-
2	.17584	24.77 pk	10	0	34.77	64.7	54.7	-	-
				Margin [dB]		-29.93	-19.93	-	-
3	.18111	25.32 pk	10	0	35.32	64.4	54.4	-	-
				Margin [dB]		-29.08	-19.08	-	-
4	.2401	21.49 pk	10	0	31.49	62.1	52.1	-	-
				Margin [dB]		-30.61	-20.61	-	-
5	.30045	18.23 pk	10	0	28.23	60.2	50.2	-	-
				Margin [dB]		-31.97	-21.97	-	-
6	.90769	7.75 pk	9.9	0	17.65	56	46	-	-
				Margin [dB]		-38.35	-28.35	-	-

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 RZCPG

Conducted Emissions Test Set-Up

TEST TITLE: Occupied Bandwidth

METHOD

The bandwidth of the emissions shall be no wider than 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

Occupied Bandwidth measured at 99% = 170KHz
 20 dB Band edge Measured = 164KHz

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	%

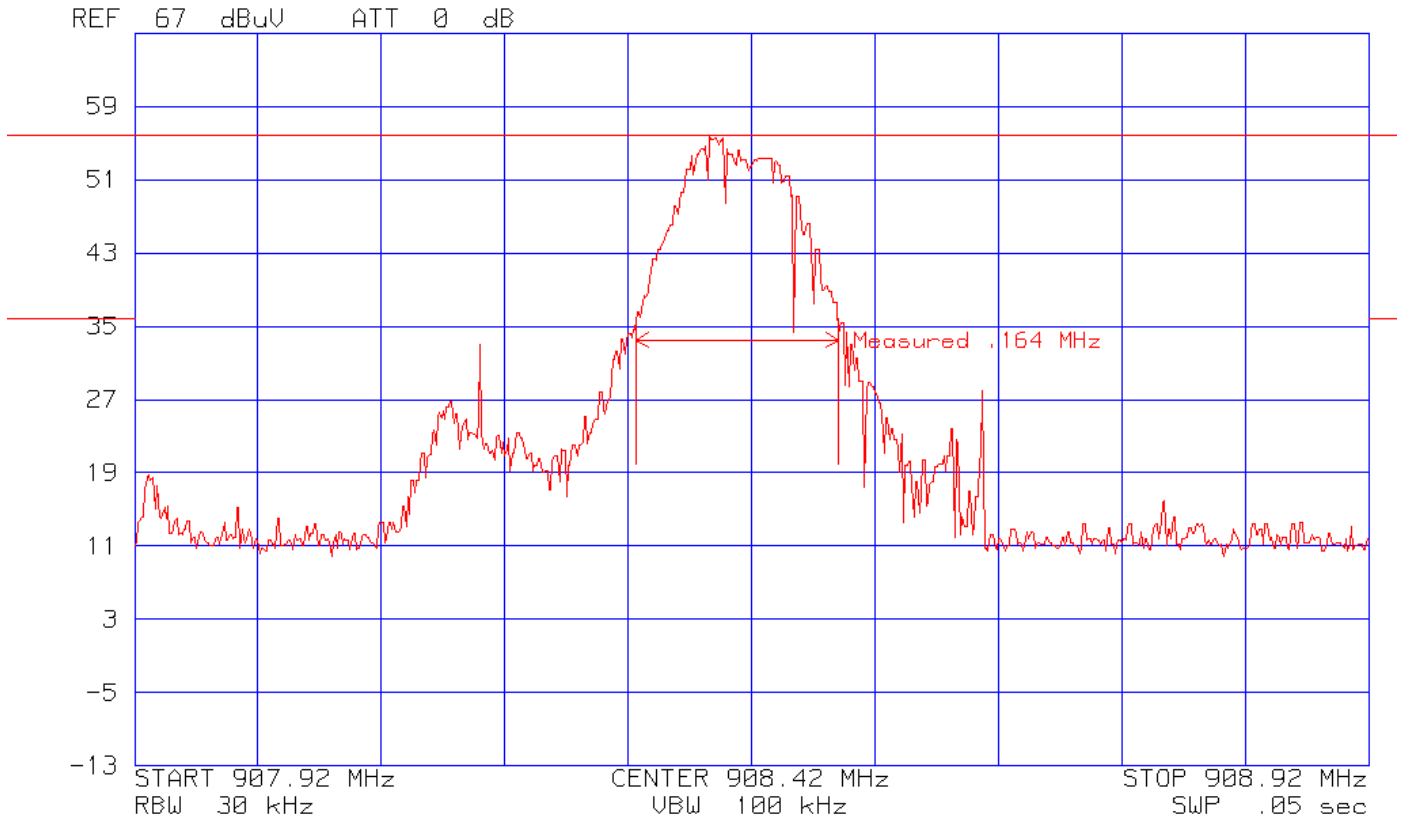
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	20	°C
Humidity:	45	%RH
Pressure:	1013	Mbar
Test Date	18July 2007	

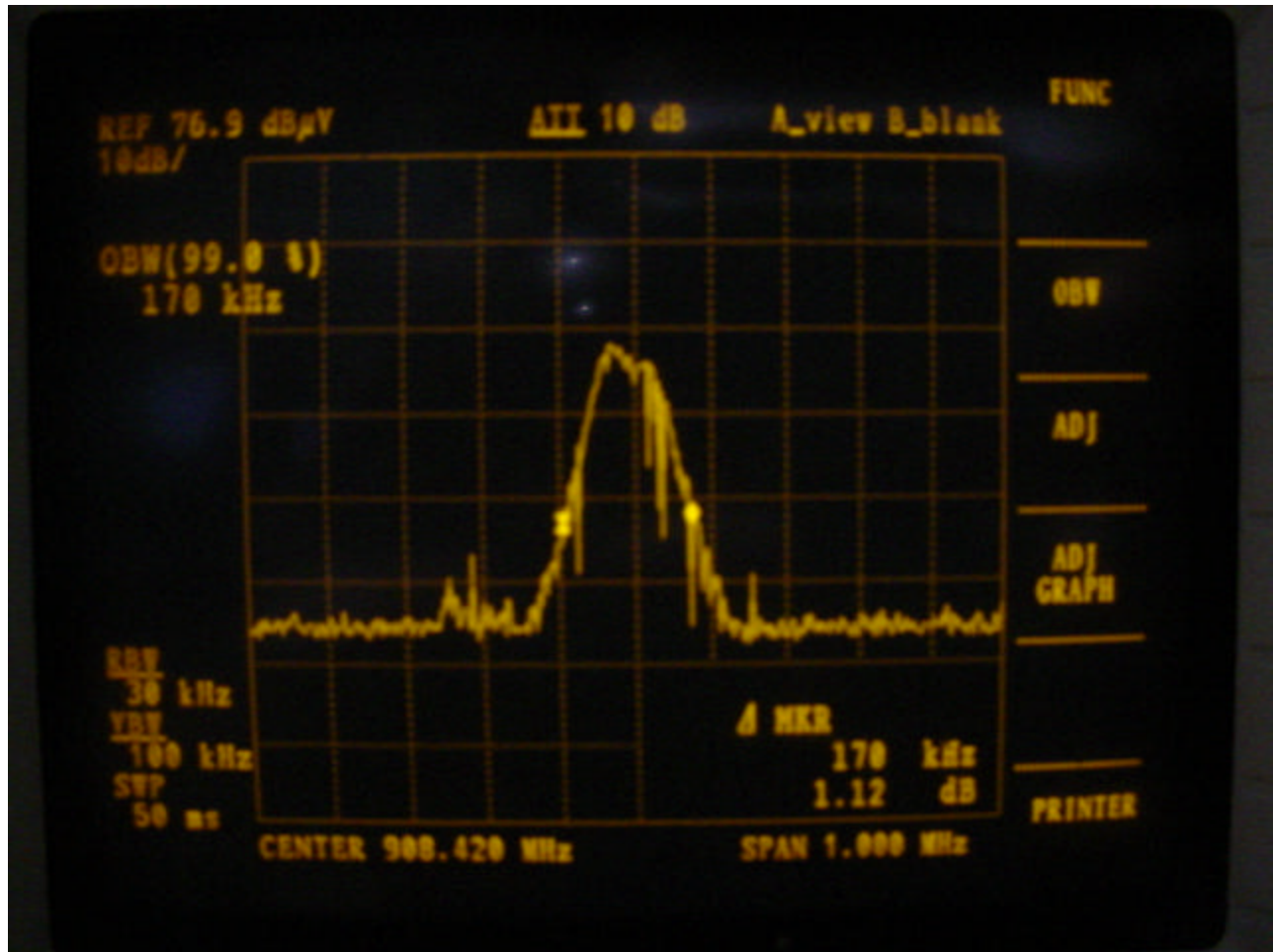
The results of this test **complied** with the requirements.

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Spectrum Analyzer	Advantest	R3261C	ME5A-229	6 Feb. 07	29 Feb.08
Dipole Antenna	ElectroMetrics	3121C-D134	5751	26 Oct.06	26 Oct. 07
Hygrometer/Temp/Barometer	Cole -Parmer	99760-00	ME4-268	10 Jan.07	10 Jan. 08

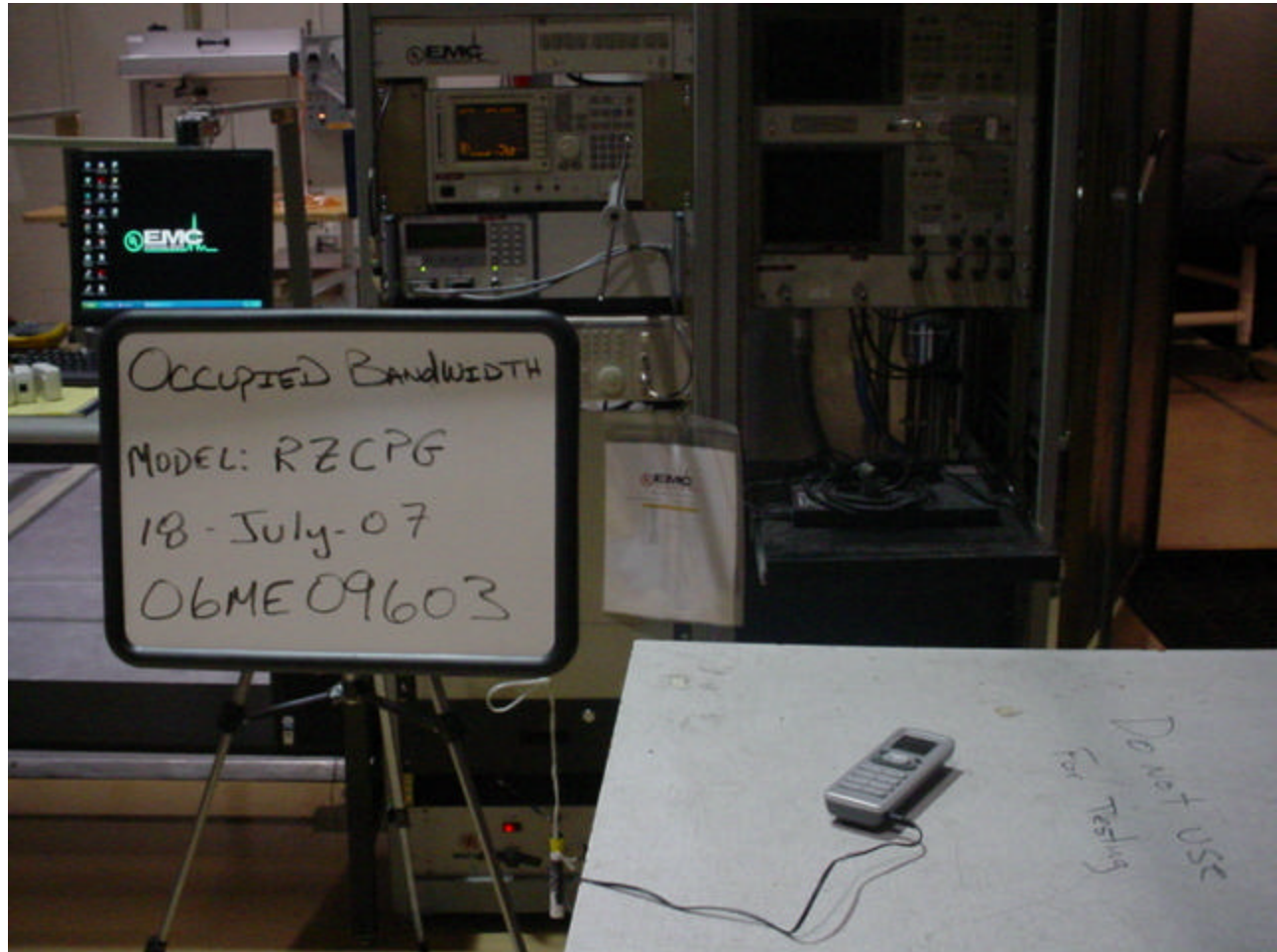
Test Accessories Used					
Description	Manufacturer	Model	Identifier	Char/Valid Date	Due
Measurement Software	UL	UL EMI Software	Version 9.3	N/A	NA



20dB Bandwidth RZCPG



99% Occupied Bandwidth



Model RZCPG

Occupied Bandwidth 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 & 2

*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
1000MHz to 10000 MHz	1MHz	1MHz	-	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 (dB μ V/m)	
	Quasi-Peak	Average
30-88	40	-
88-216	43.5	-
216-960	46	-
960-1000	54	-
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

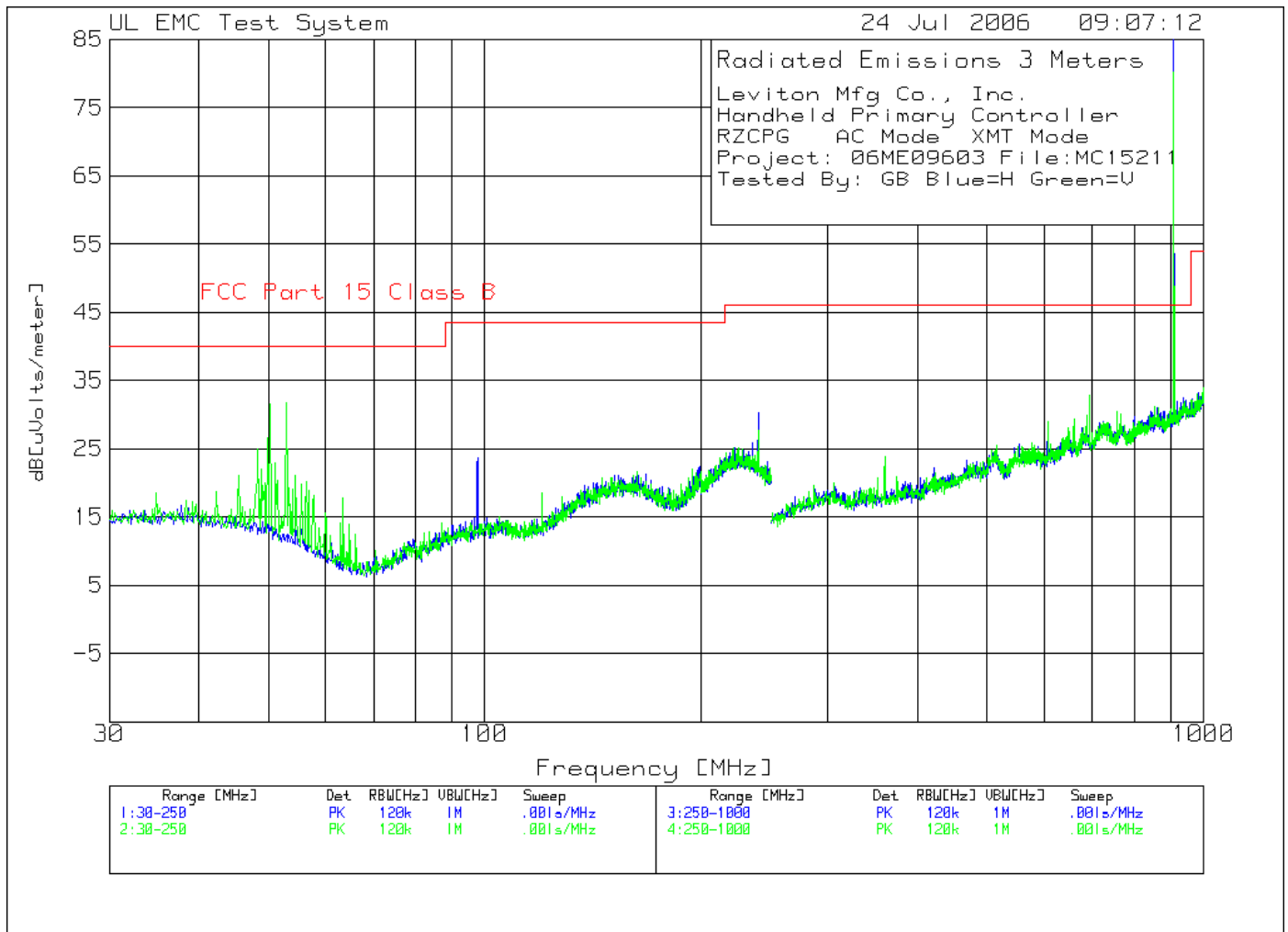
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	23	°C
Humidity:	33	%RH
Pressure:	1002	Mbar
Test Date	24 & 25 July 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	ME5-766	24 Aug. 05	31 Aug. 06
Hygrometer/Temp/Baro meter	Cole-Parmer	99760-00	ME4-268	15 Aug 06	31 Aug 07

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



The device under test was tested in a Z- axis position that represents the worst-case orientation.

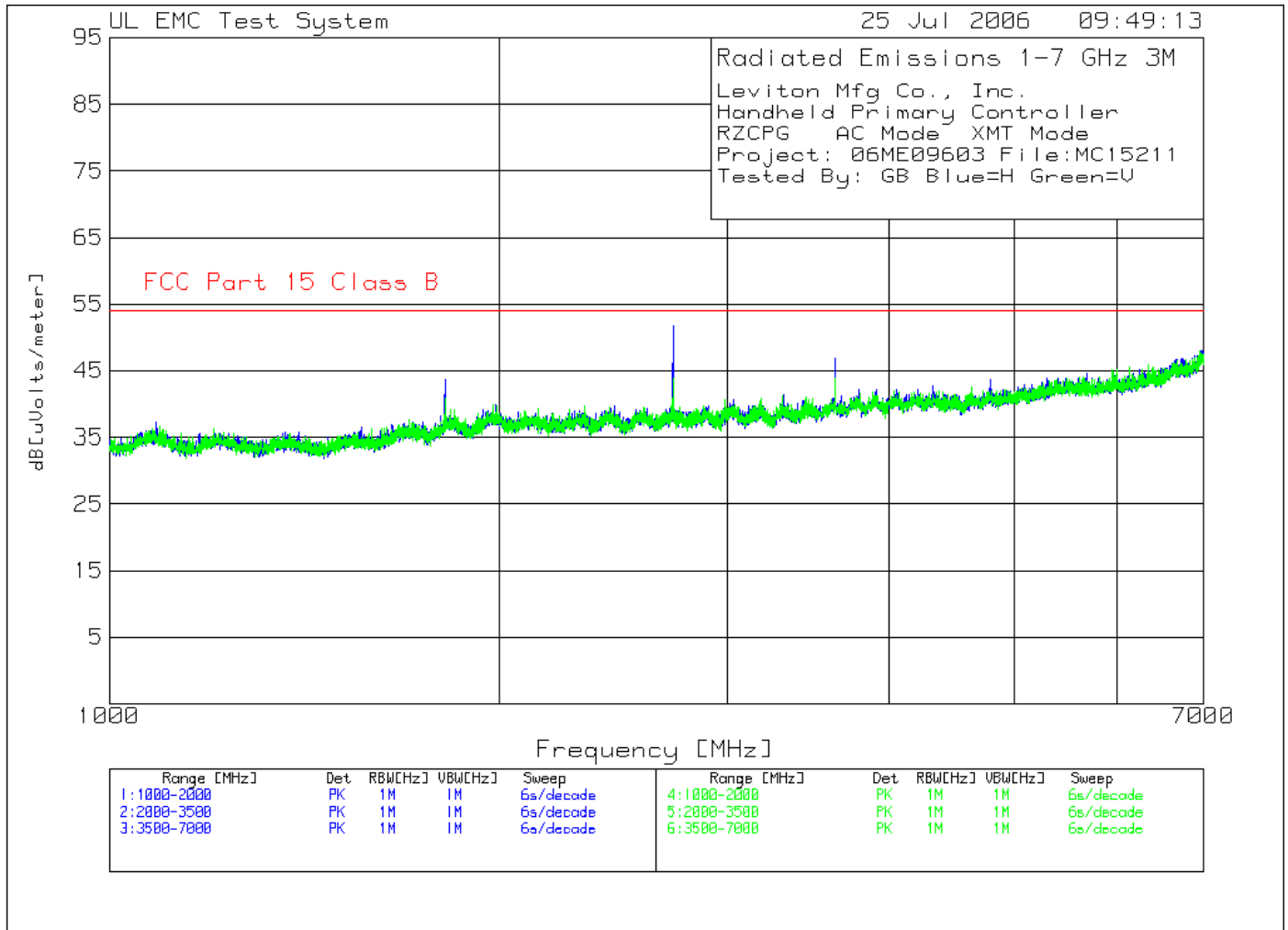
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

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 -----									
3	97.6584	12.05 pk	.8	10.8	23.65	43.5	-	-	-
	Azimuth:72	Height:400	Horz	Margin [dB]		-19.85	-	-	-
4	240.1668	9.18 pk	1.3	19.8	30.28	46	-	-	-
	Azimuth:108	Height:102	Horz	Margin [dB]		-15.72	-	-	-
Vertical 30 - 250MHz -----									
1	50.2535	19.4 pk	.5	11.6	31.5	40	-	-	-
	Azimuth:1	Height:101	Vert	Margin [dB]		-8.5	-	-	-
2	52.8953	20.58 pk	.5	10.7	31.78	40	-	-	-
	Azimuth:251	Height:101	Vert	Margin [dB]		-8.22	-	-	-
Horizontal 250 - 1000MHz -----									
5	908.439	61.31 pk	3.5	22.5	87.31	46	94	-	-
	Azimuth:256	Height:101	Horz	Margin [dB]		41.31	-6.69	-	-
Vertical 250 - 1000MHz -----									
6	908.439	54.28 pk	3.5	22.5	80.28	46	94	-	-
	Azimuth:318	Height:101	Vert	Margin [dB]		34.28	-13.72	-	-

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

The device under test was tested in a Z- axis position that represents the worst-case orientation.



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Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode XMT Mode
 Project: 06ME09603 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									
1	1816.939	45.36 pk	-28.8	27.1	43.66	54	-	-	-
	Azimuth:311	Height:101	Horz	Margin [dB]		-10.34	-	-	-

Horizontal 2000 - 3500MHz									
3	2725.242	50.08 pk	-27.7	29.4	51.78	54	-	-	-
	Azimuth:3	Height:101	Horz	Margin [dB]		-2.22	-	-	-

Horizontal 3500 - 7000MHz									
5	3633.044	41.95 pk	-26.6	31.6	46.95	54	-	-	-
	Azimuth:11	Height:101	Horz	Margin [dB]		-7.05	-	-	-
8	4543.348	33.39 pk	-25.4	32.4	40.39	54	-	-	-
	Azimuth:87	Height:101	Horz	Margin [dB]		-13.61	-	-	-

Vertical 1000 - 2000MHz									
2	1816.939	42.48 pk	-28.8	27.1	40.78	54	-	-	-
	Azimuth:15	Height:100	Vert	Margin [dB]		-13.22	-	-	-

Vertical 2000 - 3500MHz									
4	2725.242	42.19 pk	-27.7	29.4	43.89	54	-	-	-
	Azimuth:356	Height:100	Vert	Margin [dB]		-10.11	-	-	-

Vertical 3500 - 7000MHz									
6	3633.044	38.95 pk	-26.6	31.6	43.95	54	-	-	-
	Azimuth:163	Height:100	Vert	Margin [dB]		-10.05	-	-	-
7	4542.181	33.56 pk	-25.4	32.4	40.56	54	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-13.44	-	-	-

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 Handheld Primary Controller
 RZCPG AC Mode XMT Mode
 Project: 06ME09603 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								
1816.8725	43.85 ave	-28.8	27.1	42.15	54	-	-	-
Azimuth: 75		Height:193	Horz	Margin [dB]:	-11.85	-	-	-
Horizontal 2000 - 3500MHz								
2725.2532	51.75 ave	-27.7	29.4	53.45	54	-	-	-
Azimuth: 350		Height:132	Horz	Margin [dB]:	-.55	-	-	-
Horizontal 3500 - 7000MHz								
3633.64	44.71 ave	-26.6	31.6	49.71	54	-	-	-
Azimuth: 241		Height:109	Horz	Margin [dB]:	-4.29	-	-	-
4541.6321	26.84 ave	-25.4	32.4	33.84	54	-	-	-
Azimuth: 285		Height:132	Horz	Margin [dB]:	-20.16	-	-	-
5450.5	28.77 ave	-23.8	34.1	39.07	54	-	-	-
Azimuth: 184		Height:185	Horz	Margin [dB]:	-14.93	-	-	-
6358.8648	24.77 pk	-22.3	34.5	36.97	54	-	-	-
Azimuth: 262		Height:178	Horz	Margin [dB]:	-17.03	-	-	-
Vertical 1000 - 2000MHz								
1816.8454	43.08 ave	-28.8	27.1	41.38	54	-	-	-
Azimuth: 51		Height:103	Vert	Margin [dB]:	-12.62	-	-	-

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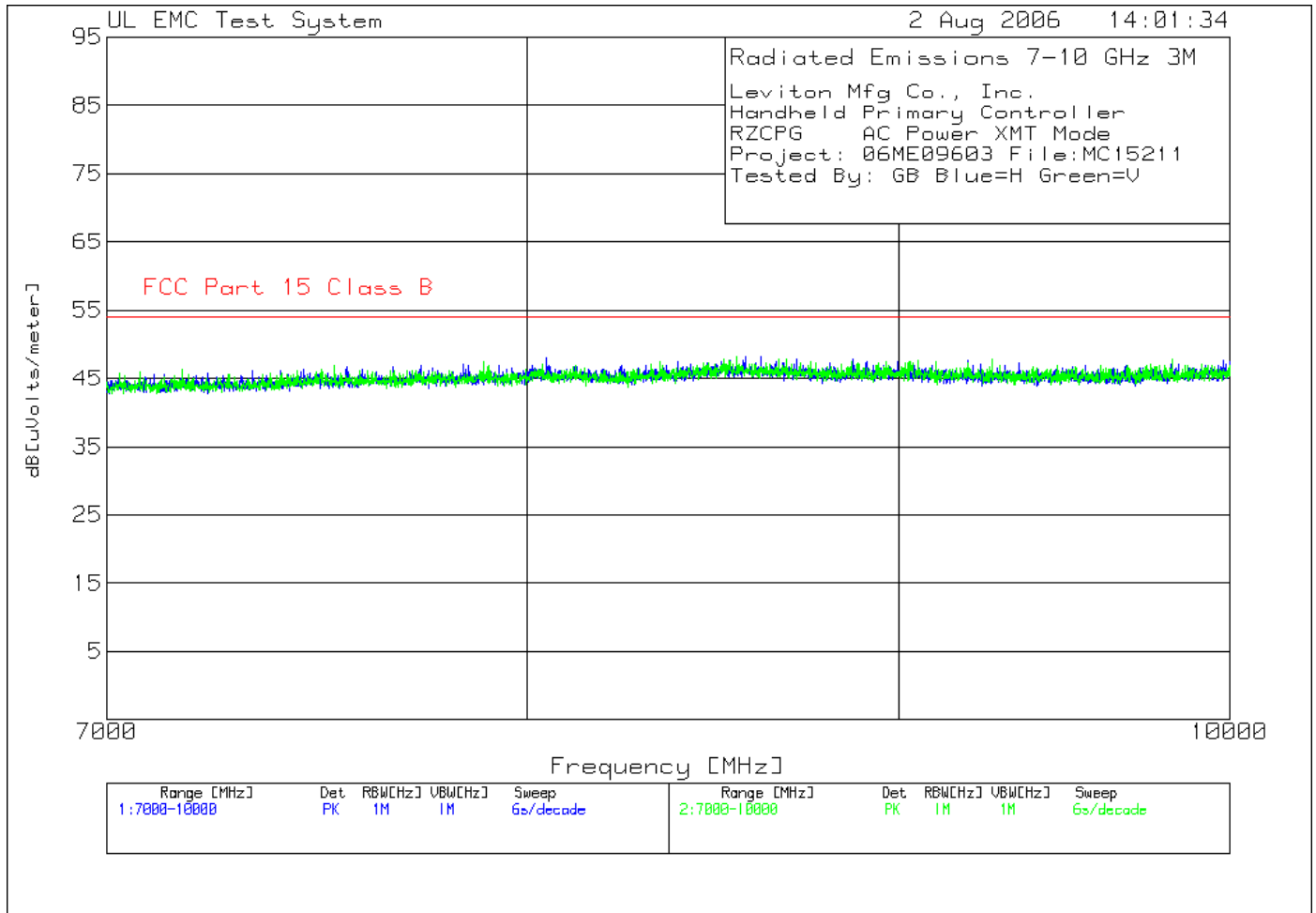
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
=====								
Vertical 2000 - 3500MHz								
2725.2505	38.46 ave	-27.7	29.4	40.16	54	-	-	-
Azimuth: 6	Height:128	Vert		Margin [dB]:	-13.84	-	-	-
Vertical 3500 - 7000MHz								
3633.5998	37.65 ave	-26.6	31.6	42.65	54	-	-	-
Azimuth: 353	Height:151	Vert		Margin [dB]:	-11.35	-	-	-
4543.2476	25.78 ave	-25.4	32.4	32.78	54	-	-	-
Azimuth: 17	Height:195	Vert		Margin [dB]:	-21.22	-	-	-
5450.5	28.71 ave	-23.8	34.1	39.01	54	-	-	-
Azimuth: 311	Height:180	Vert		Margin [dB]:	-14.99	-	-	-
6358.97	31.1 ave	-22.3	34.5	43.3	54	-	-	-
Azimuth: 288	Height:105	Vert		Margin [dB]:	-10.7	-	-	-

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Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Power XMT Mode
 Project: 06ME09603 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 7000 - 10000MHz -----									
1	7331.11 Azimuth:101	36.62 pk Height:101	-26.6 Horz	36.2 Margin [dB]	46.22	54	-	-	-
						-7.78	-	-	-
2	7554.185 Azimuth:230	36.83 pk Height:101	-26.7 Horz	36.6 Margin [dB]	46.73	54	-	-	-
						-7.27	-	-	-
3	7838.279 Azimuth:358	36.92 pk Height:101	-26.6 Horz	36.7 Margin [dB]	47.02	54	-	-	-
						-6.98	-	-	-
4	8048.349 Azimuth:169	37.46 pk Height:101	-26.4 Horz	36.9 Margin [dB]	47.96	54	-	-	-
						-6.04	-	-	-
5	8572.524 Azimuth:107	36.63 pk Height:101	-25.9 Horz	37.5 Margin [dB]	48.23	54	-	-	-
						-5.77	-	-	-
6	8871.624 Azimuth:231	36.5 pk Height:101	-26.2 Horz	37.6 Margin [dB]	47.9	54	-	-	-
						-6.1	-	-	-

LIMIT 1: FCC Part 15 Class B

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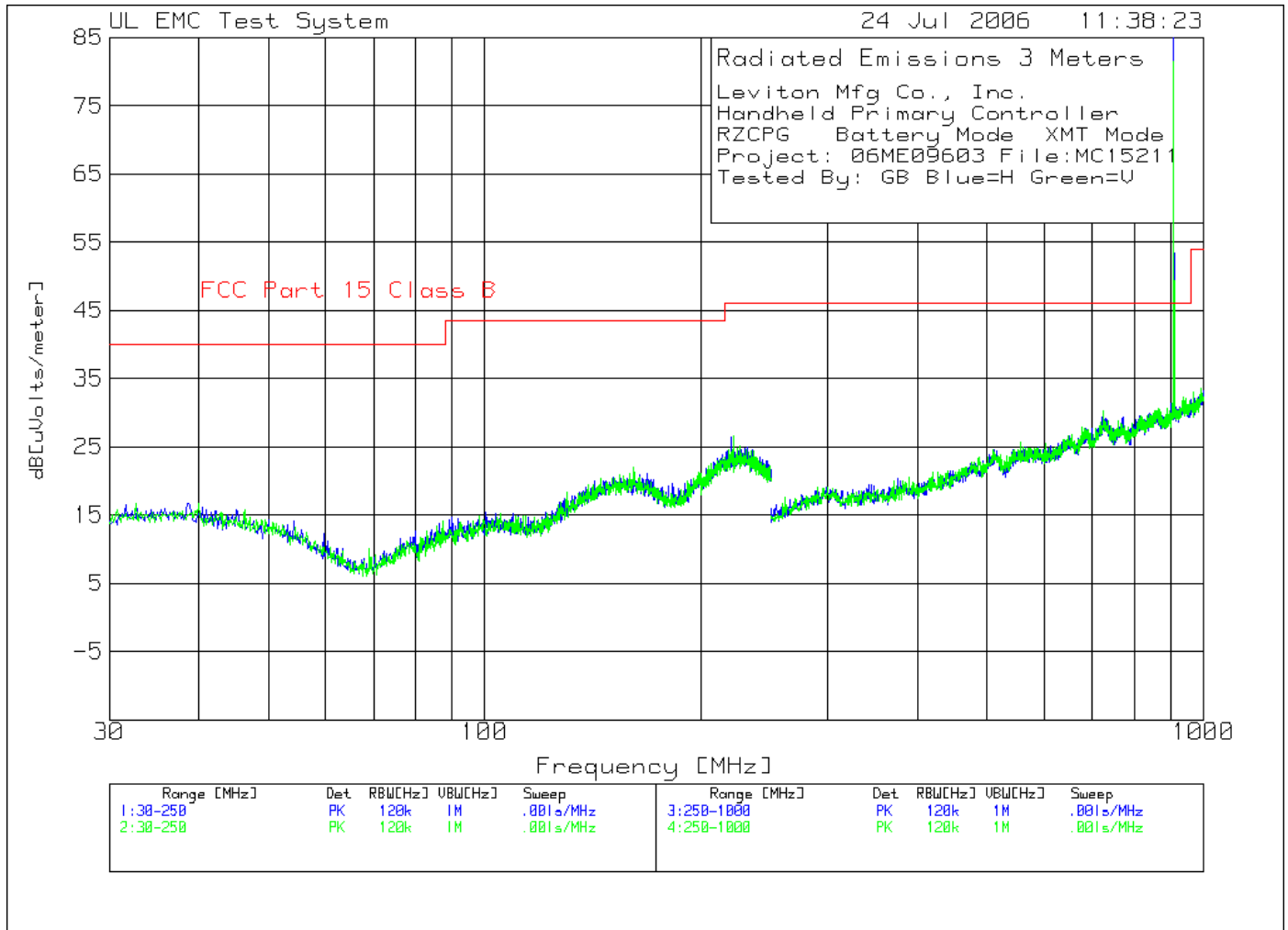
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Power XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4
Frequency	Reading	Factor	Factor	dB[uVolts/meter]				
[MHz]	[dB(uV)]	[dB]	[dB]					
=====								
Horizontal	7000 - 10000MHz							
8572.5	27.65 ave	-25.9	37.5	39.25	54	-	-	-
Azimuth: 189	Height:161	Horz		Margin [dB]:	-14.75	-	-	-

LIMIT 1: FCC Part 15 Class B

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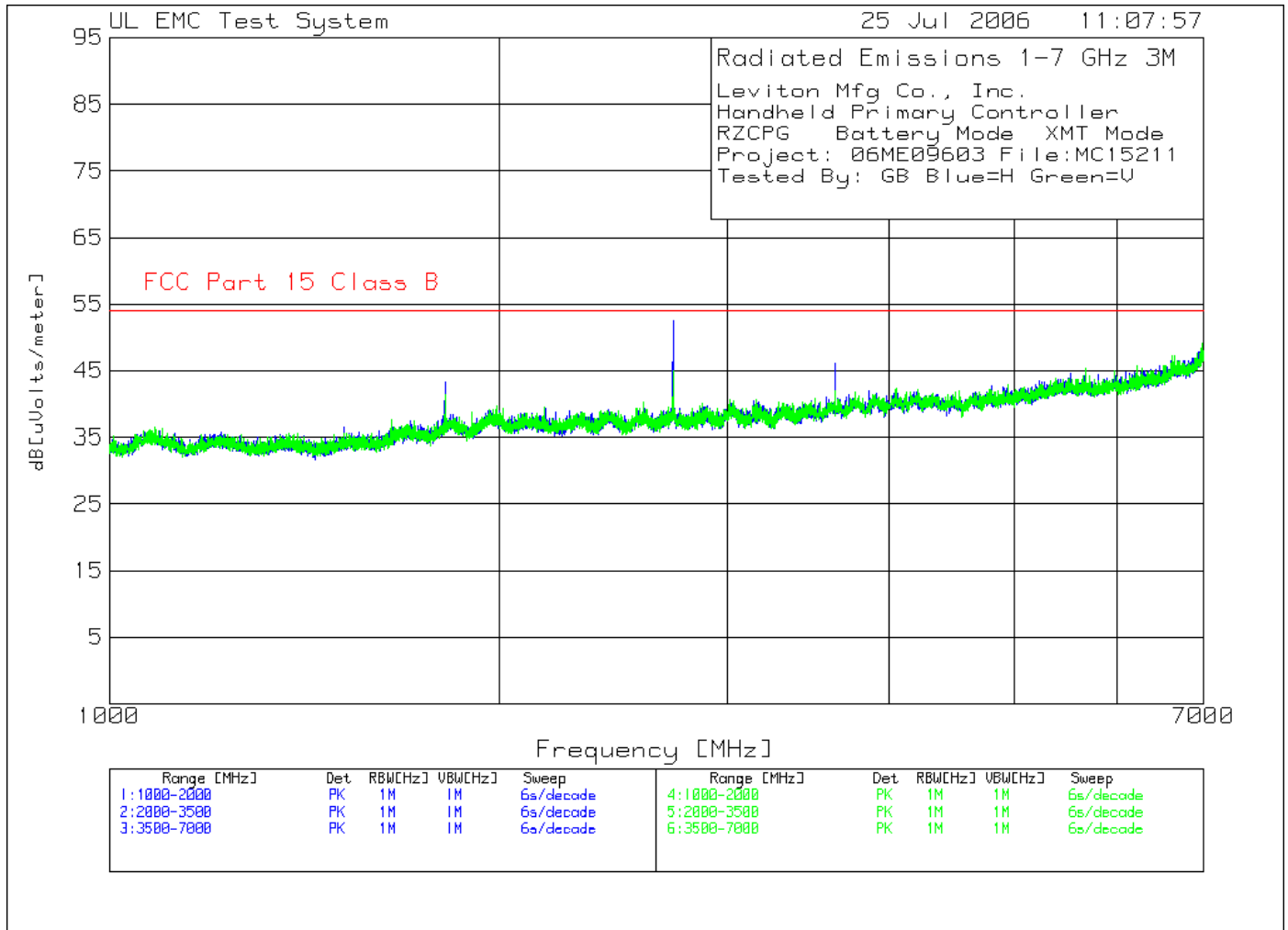
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

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	38.6591	2.64 pk	.3	13.8	16.74	40	-	-	-
	Azimuth:344	Height:249	Horz	Margin [dB]		-23.26	-	-	-
Vertical 30 - 250MHz -----									
2	39.98	2.85 pk	.3	13.6	16.75	40	-	-	-
	Azimuth:282	Height:101	Vert	Margin [dB]		-23.25	-	-	-
3	160.7672	4.55 pk	1.1	16.3	21.95	43.5	-	-	-
	Azimuth:344	Height:250	Vert	Margin [dB]		-21.55	-	-	-
4	221.8212	4.61 pk	1.3	20.7	26.61	46	-	-	-
	Azimuth:0	Height:101	Vert	Margin [dB]		-19.39	-	-	-
Horizontal 250 - 1000MHz -----									
5	908.439	61.28 pk	3.5	22.5	87.28	46	94	-	-
	Azimuth:255	Height:250	Horz	Margin [dB]		41.28	-6.72	-	-
6	908.439	61.28 pk	3.5	22.5	87.28	46	94	-	-
	Azimuth:255	Height:250	Horz	Margin [dB]		41.28	-6.72	-	-
Vertical 250 - 1000MHz -----									
7	908.439	54.28 pk	3.5	22.5	80.28	46	94	-	-
	Azimuth:318	Height:101	Vert	Margin [dB]		34.28	- 13.72	-	-

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

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Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode XMT Mode
 Project: 06ME09603 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									
1	1816.939	44.95 pk	-28.8	27.1	43.25	54	-	-	-
	Azimuth:118	Height:101	Horz	Margin [dB]		-10.75	-	-	-

Horizontal 2000 - 3500MHz									
3	2725.242	50.79 pk	-27.7	29.4	52.49	54	-	-	-
	Azimuth:4	Height:101	Horz	Margin [dB]		-1.51	-	-	-

Horizontal 3500 - 7000MHz									
5	3633.044	41.18 pk	-26.6	31.6	46.18	54	-	-	-
	Azimuth:148	Height:101	Horz	Margin [dB]		-7.82	-	-	-
9	6363.955	31.7 pk	-22.2	34.5	44	54	-	-	-
	Azimuth:122	Height:101	Horz	Margin [dB]		-10	-	-	-
10	4537.513	33.63 pk	-25.4	32.4	40.63	54	-	-	-
	Azimuth:291	Height:101	Horz	Margin [dB]		-13.37	-	-	-

Vertical 1000 - 2000MHz									
2	1816.939	43.09 pk	-28.8	27.1	41.39	54	-	-	-
	Azimuth:16	Height:101	Vert	Margin [dB]		-12.61	-	-	-

Vertical 2000 - 3500MHz									
4	2725.242	43.29 pk	-27.7	29.4	44.99	54	-	-	-
	Azimuth:46	Height:101	Vert	Margin [dB]		-9.01	-	-	-

Vertical 3500 - 7000MHz									
6	3633.044	37.04 pk	-26.6	31.6	42.04	54	-	-	-
	Azimuth:238	Height:101	Vert	Margin [dB]		-11.96	-	-	-
7	4541.014	33.97 pk	-25.4	32.4	40.97	54	-	-	-
	Azimuth:238	Height:101	Vert	Margin [dB]		-13.03	-	-	-
8	6361.621	31.33 pk	-22.2	34.5	43.63	54	-	-	-
	Azimuth:73	Height:101	Vert	Margin [dB]		-10.37	-	-	-

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Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode XMT Mode
 Project: 06ME09603 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								
1816.8454	41.05 ave	-28.8	27.1	39.35	54	-	-	-
Azimuth: 297 Height:102 Horz			Margin [dB]:		-14.65	-	-	-
Horizontal 2000 - 3500MHz								
2725.2204	52.27 ave	-27.7	29.4	*46.07	54	-	-	-
Azimuth: 347 Height:131 Horz			Margin [dB]:		-7.93	-	-	-
2725.2204	52.28 ave	-27.7	29.4	*46.08	54	-	-	-
Azimuth: 347 Height:131 Horz			Margin [dB]:		-7.92	-	-	-
2725.2204	52.28 ave	-27.7	29.4	*46.08	54	-	-	-
Azimuth: 347 Height:131 Horz			Margin [dB]:		-7.92	-	-	-
Horizontal 3500 - 7000MHz								
3633.6263	44.37 ave	-26.6	31.6	49.37	54	-	-	-
Azimuth: 238 Height:110 Horz			Margin [dB]:		-4.63	-	-	-
4542.1116	27.14 ave	-25.4	32.4	34.14	54	-	-	-
Azimuth: 244 Height:147 Horz			Margin [dB]:		-19.86	-	-	-
5450.5	28.77 ave	-23.8	34.1	39.07	54	-	-	-
Azimuth: 71 Height:190 Horz			Margin [dB]:		-14.93	-	-	-
6358.86	31.09 ave	-22.3	34.5	43.29	54	-	-	-
Azimuth: 229 Height:105 Horz			Margin [dB]:		-10.71	-	-	-

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

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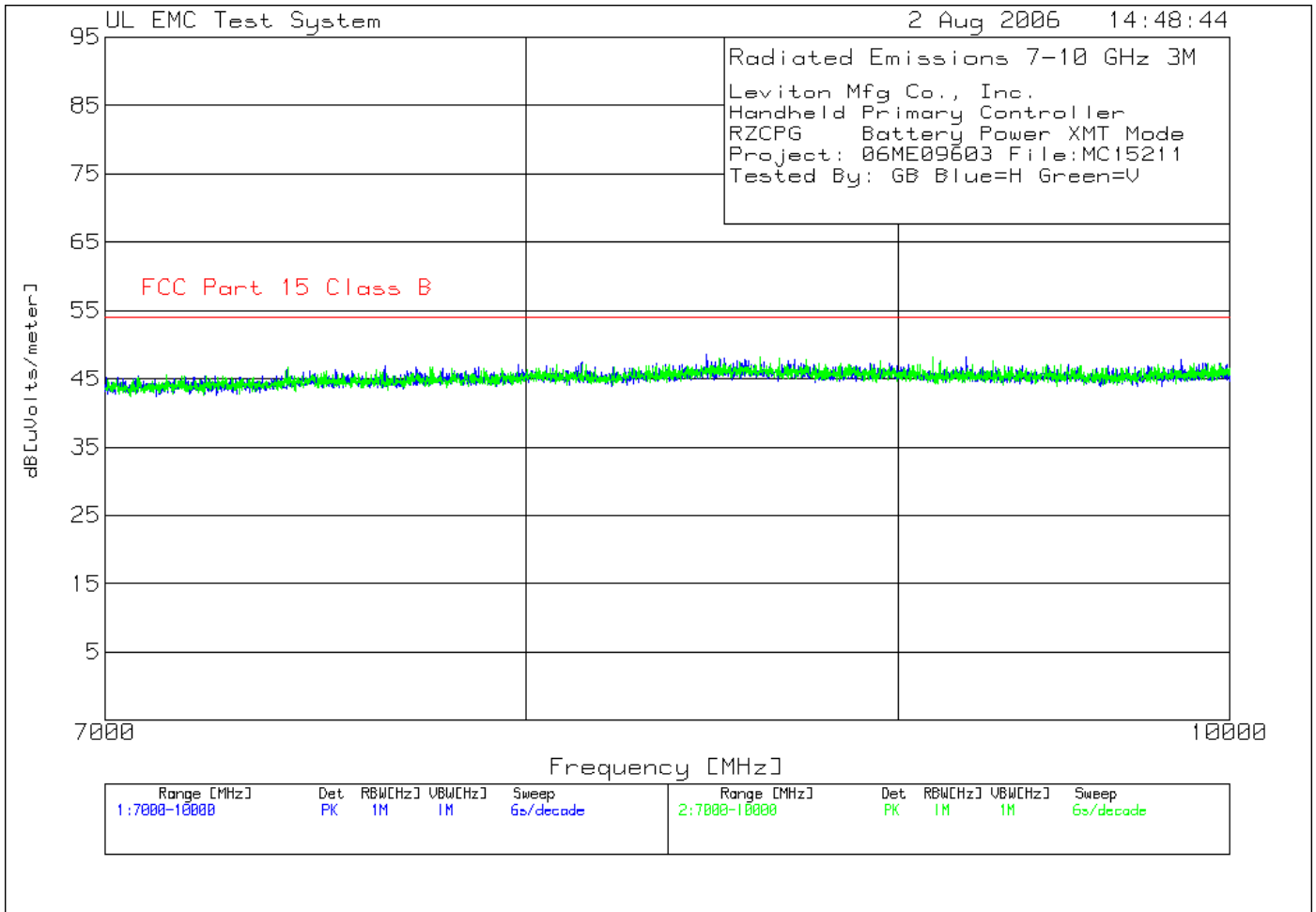
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
=====								
Vertical 1000 - 2000MHz								
1816.9313	23.17 ave	-28.8	27.1	21.47	54	-	-	-
Azimuth: 187	Height:124	Vert	Margin [dB]:	-32.53		-	-	-
Vertical 2000 - 3500MHz								
2725.2818	41.23 ave	-27.7	29.4	42.93	54	-	-	-
Azimuth: 226	Height:170	Vert	Margin [dB]:	-11.07		-	-	-
Vertical 3500 - 7000MHz								
3633.6263	37.17 ave	-26.6	31.6	42.17	54	-	-	-
Azimuth: 331	Height:171	Vert	Margin [dB]:	-11.83		-	-	-
4537.5	25.77 ave	-25.4	32.4	32.77	54	-	-	-
Azimuth: 110	Height:102	Vert	Margin [dB]:	-21.23		-	-	-
6363.9	31.03 ave	-22.2	34.5	43.33	54	-	-	-
Azimuth: 173	Height:133	Vert	Margin [dB]:	-10.67		-	-	-
5450.5	28.71 ave	-23.8	34.1	39.01	54	-	-	-
Azimuth: 145	Height:118	Vert	Margin [dB]:	-14.99		-	-	-

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 Handheld Primary Controller
 RZCPG Battery Power XMT Mode
 Project: 06ME09603 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 7000 - 10000MHz -----									
1	7650.217 Azimuth:36	36.77 pk Height:101	-26.6 Horz	36.7 Margin [dB]	46.87	54 -7.13	-	-	-
2	7979.326 Azimuth:16	36.82 pk Height:101	-26.5 Horz	36.8 Margin [dB]	47.12	54 -6.88	-	-	-
3	8142.381 Azimuth:236	36.74 pk Height:101	-26.3 Horz	37 Margin [dB]	47.44	54 -6.56	-	-	-
4	8470.49 Azimuth:346	36.91 pk Height:101	-25.9 Horz	37.5 Margin [dB]	48.51	54 -5.49	-	-	-
6	8709.57 Azimuth:89	36.47 pk Height:101	-26.1 Horz	37.5 Margin [dB]	47.87	54 -6.13	-	-	-
Vertical 7000 - 10000MHz -----									
5	8615.538 Azimuth:344	36.76 pk Height:101	-26 Vert	37.5 Margin [dB]	48.26	54 -5.74	-	-	-

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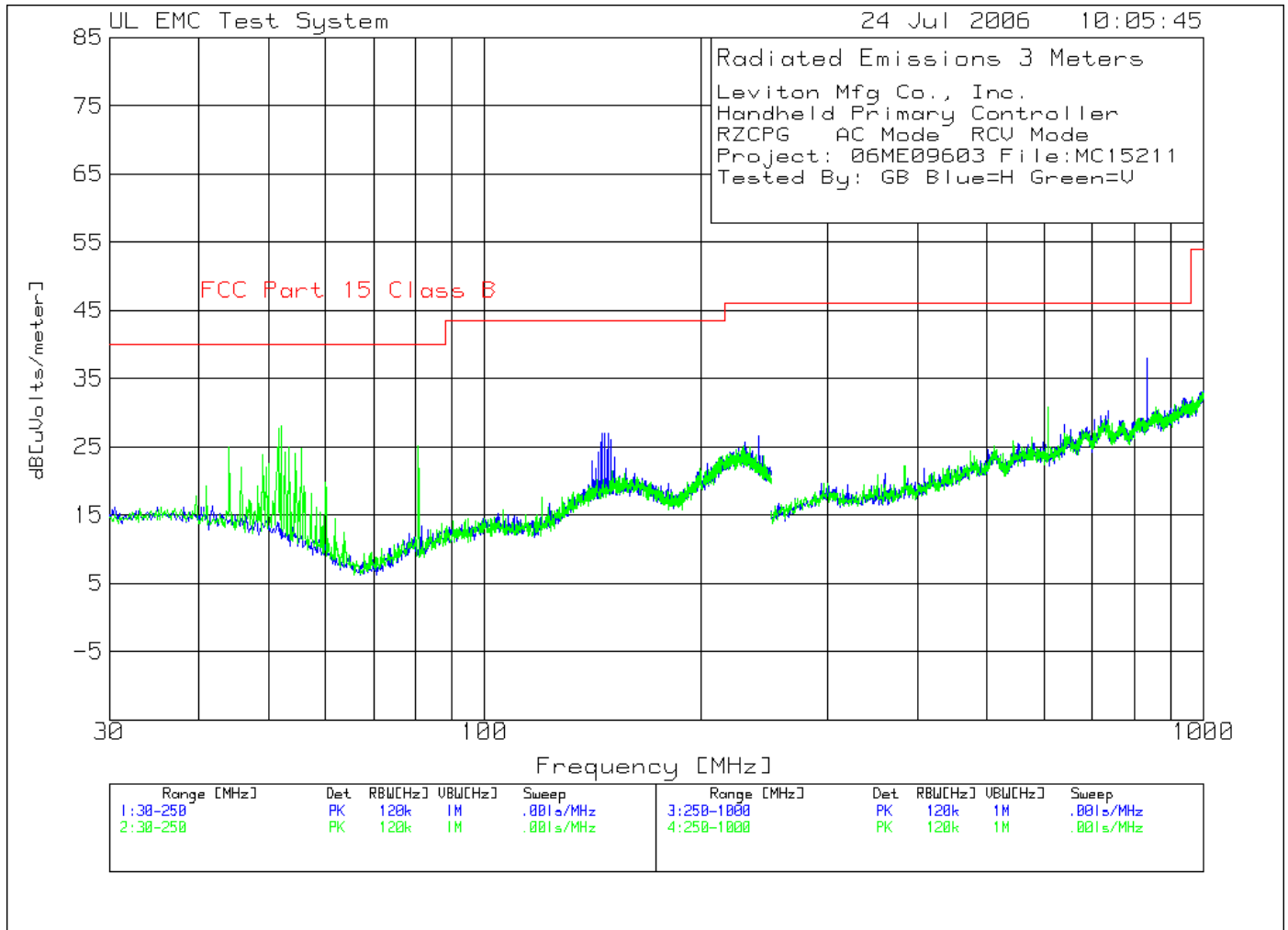
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Power XMT Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4
Frequency	Reading	Factor	Factor	dB[uVolts/meter]				
[MHz]	[dB(uV)]	[dB]	[dB]					
=====								
Horizontal	7000 - 10000MHz							
8470.5	27.39 ave	-25.9	37.5	38.99	54	-	-	-
Azimuth: 80	Height:141	Horz	Margin [dB]:	-15.01		-	-	-
Vertical	7000 - 10000MHz							
8615.5	27.48 ave	-26	37.5	38.98	54	-	-	-
Azimuth: 58	Height:106	Vert	Margin [dB]:	-15.02		-	-	-
Horizontal	7000 - 10000MHz							
9198.7	26.82 ave	-26.4	37.7	38.12	54	-	-	-
Azimuth: 166	Height:112	Horz	Margin [dB]:	-15.88		-	-	-
Vertical	7000 - 10000MHz							
9100.7	26.74 ave	-26.4	37.6	37.94	54	-	-	-
Azimuth: 139	Height:101	Vert	Margin [dB]:	-16.06		-	-	-

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The device under test was tested in a Z- axis position that represents the worst-case orientation.

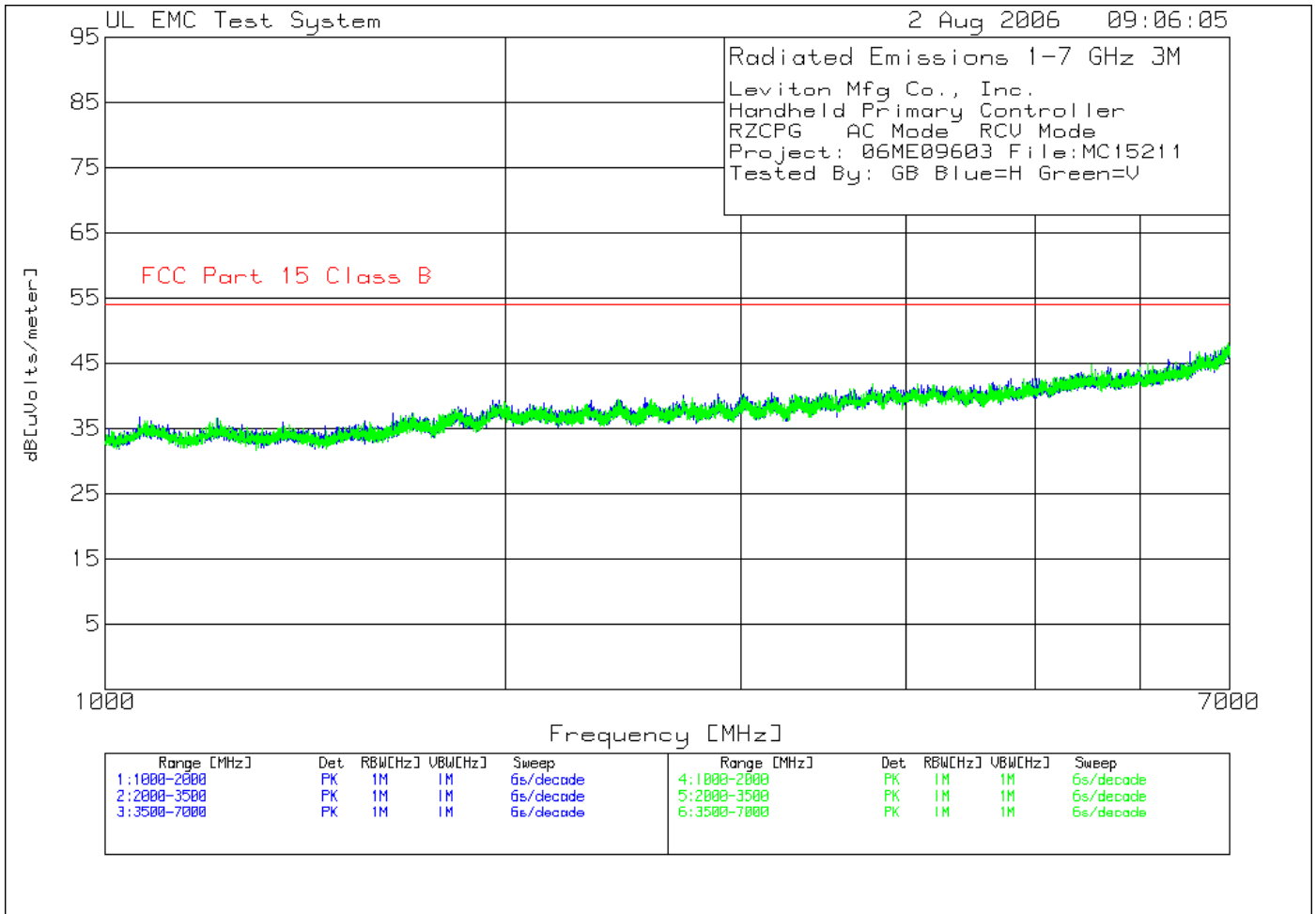
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode RCV Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

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 -----									
4	146.8245	10 pk	1	15.9	26.9	43.5	-	-	-
	Azimuth:66	Height:101	Horz	Margin [dB]		-16.6	-	-	-
Vertical 30 - 250MHz -----									
1	51.5744	15.98 pk	.5	11.2	27.68	40	-	-	-
	Azimuth:132	Height:250	Vert	Margin [dB]		-12.32	-	-	-
2	52.0147	16.57 pk	.5	11	28.07	40	-	-	-
	Azimuth:323	Height:101	Vert	Margin [dB]		-11.93	-	-	-
3	80.7805	15.95 pk	.6	8.6	25.15	40	-	-	-
	Azimuth:16	Height:400	Vert	Margin [dB]		-14.85	-	-	-
Horizontal 250 - 1000MHz -----									
6	834.3896	13.01 pk	3.2	21.7	37.91	46	-	-	-
	Azimuth:48	Height:101	Horz	Margin [dB]		-8.09	-	-	-
Vertical 250 - 1000MHz -----									
5	608.2389	10.35 pk	2.4	18.1	30.85	46	-	-	-
	Azimuth:301	Height:101	Vert	Margin [dB]		-15.15	-	-	-

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

The device under test was tested in a Z- axis position that represents the worst-case orientation.



The device under test was tested in a Z- axis position that represents the worst-case orientation.

Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode RCV Mode
 Project: 06ME09603 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									
1	1816.606	38.54 pk	-28.8	27.1	36.84	54	-	-	-
	Azimuth:241	Height:100	Horz	Margin [dB]		-17.16	-	-	-

Horizontal 2000 - 3500MHz									
3	2725.742	36.38 pk	-27.7	29.4	38.08	54	-	-	-
	Azimuth:266	Height:100	Horz	Margin [dB]		-15.92	-	-	-

Horizontal 3500 - 7000MHz									
5	3634.211	35.63 pk	-26.6	31.6	40.63	54	-	-	-
	Azimuth:16	Height:100	Horz	Margin [dB]		-13.37	-	-	-
8	4543.348	32.07 pk	-25.4	32.4	39.07	54	-	-	-
	Azimuth:266	Height:100	Horz	Margin [dB]		-14.93	-	-	-
9	5451.317	31.86 pk	-23.8	34.1	42.16	54	-	-	-
	Azimuth:266	Height:100	Horz	Margin [dB]		-11.84	-	-	-

Vertical 1000 - 2000MHz									
2	1816.939	38.71 pk	-28.8	27.1	37.01	54	-	-	-
	Azimuth:282	Height:100	Vert	Margin [dB]		-16.99	-	-	-

Vertical 2000 - 3500MHz									
4	2725.742	36.27 pk	-27.7	29.4	37.97	54	-	-	-
	Azimuth:134	Height:100	Vert	Margin [dB]		-16.03	-	-	-

Vertical 3500 - 7000MHz									
6	3634.211	33.88 pk	-26.6	31.6	38.88	54	-	-	-
	Azimuth:118	Height:100	Vert	Margin [dB]		-15.12	-	-	-
7	4543.348	32.23 pk	-25.4	32.4	39.23	54	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-14.77	-	-	-
10	5451.317	32.64 pk	-23.8	34.1	42.94	54	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-11.06	-	-	-

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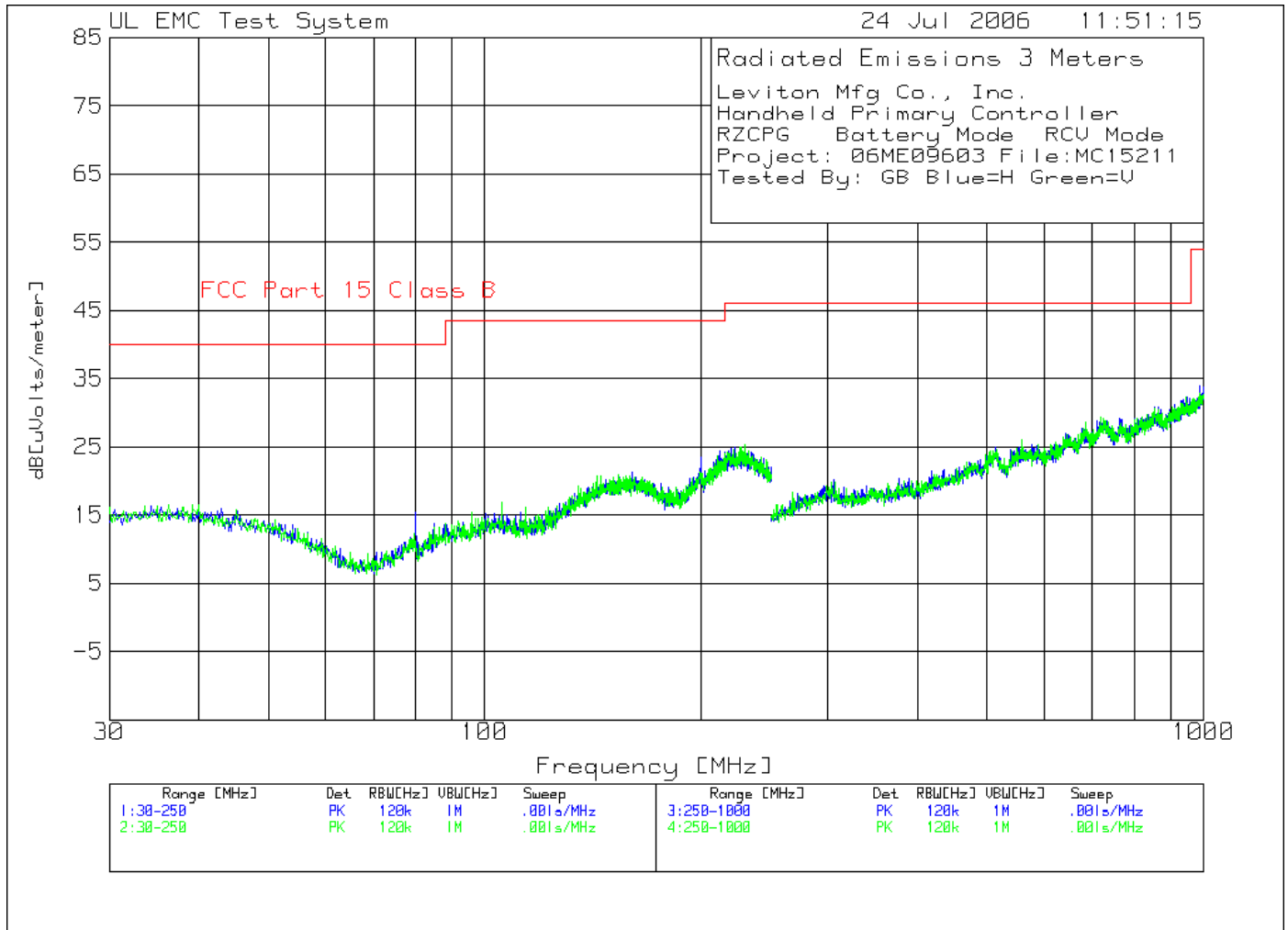
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG AC Mode RCV Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

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								
1816.9	29.3 ave	-28.8	27.1	27.6	54	-	-	-
Azimuth: 299 Height:148 Horz					Margin [dB]:	-26.4	-	-
Horizontal 2000 - 3500MHz								
2725.2	27.55 ave	-27.7	29.4	29.25	54	-	-	-
Azimuth: 118 Height:128 Horz					Margin [dB]:	-24.75	-	-
Horizontal 3500 - 7000MHz								
3633.5	27.18 ave	-26.6	31.6	32.18	54	-	-	-
Azimuth: 238 Height:140 Horz					Margin [dB]:	-21.82	-	-
4542	25.64 ave	-25.4	32.4	32.64	54	-	-	-
Azimuth: 335 Height:201 Horz					Margin [dB]:	-21.36	-	-
5450	28.67 ave	-23.8	34.1	38.97	54	-	-	-
Azimuth: 339 Height:134 Horz					Margin [dB]:	-15.03	-	-
Vertical 1000 - 2000MHz								
1816	29.25 ave	-28.8	27.1	27.55	54	-	-	-
Azimuth: 319 Height:145 Vert					Margin [dB]:	-26.45	-	-
Vertical 2000 - 3500MHz								
2725.2	27.55 ave	-27.7	29.4	29.25	54	-	-	-
Azimuth: 6 Height:191 Vert					Margin [dB]:	-24.75	-	-
Vertical 3500 - 7000MHz								
3633.5	27.15 ave	-26.6	31.6	32.15	54	-	-	-
Azimuth: 49 Height:107 Vert					Margin [dB]:	-21.85	-	-
4542	25.67 ave	-25.4	32.4	32.67	54	-	-	-
Azimuth: 338 Height:105 Vert					Margin [dB]:	-21.33	-	-
5450	28.66 ave	-23.8	34.1	38.96	54	-	-	-
Azimuth: 30 Height:114 Vert					Margin [dB]:	-15.04	-	-

LIMIT 1: FCC Part 15 Class B

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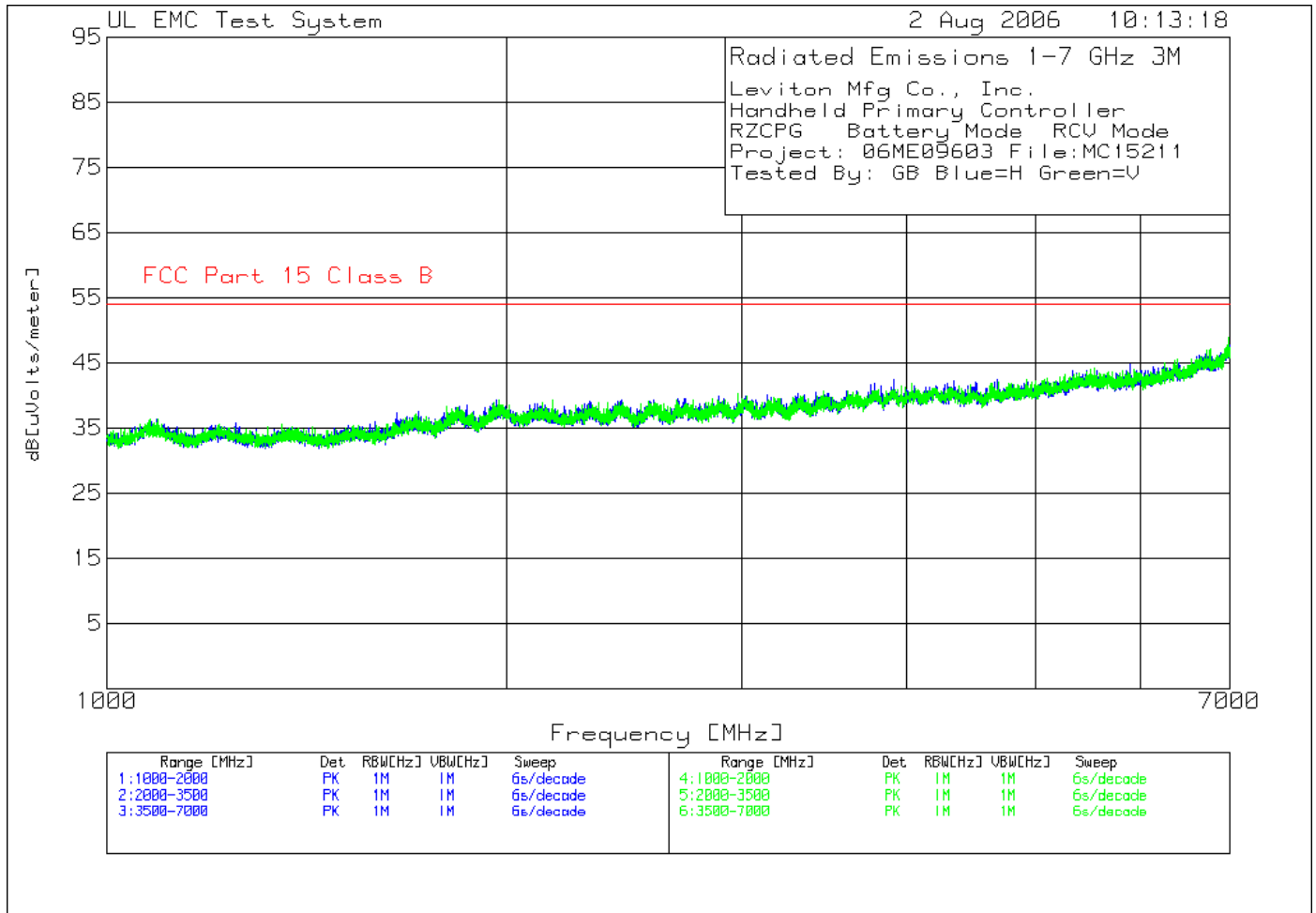
Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode RCV Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

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 -----									
2	80.0467	6.45 pk	.6	8.3	15.35	40	-	-	-
	Azimuth:114	Height:101	Horz	Margin [dB]		-24.65	-	-	-
Vertical 30 - 250MHz -----									
1	39.98	2.64 pk	.3	13.6	16.54	40	-	-	-
	Azimuth:286	Height:399	Vert	Margin [dB]		-23.46	-	-	-
3	105.5837	5.59 pk	.8	10.5	16.89	43.5	-	-	-
	Azimuth:2	Height:249	Vert	Margin [dB]		-26.61	-	-	-
Horizontal 250 - 1000MHz -----									
4	514.1761	4.11 pk	2.1	18.7	24.91	46	-	-	-
	Azimuth:275	Height:399	Horz	Margin [dB]		-21.09	-	-	-
5	763.8426	5.19 pk	2.9	21	29.09	46	-	-	-
	Azimuth:42	Height:249	Horz	Margin [dB]		-16.91	-	-	-
6	988.9927	5.92 pk	4.1	24	34.02	54	-	-	-
	Azimuth:17	Height:399	Horz	Margin [dB]		-19.98	-	-	-

LIMIT 1: FCC Part 15 Class B

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The device under test was tested in a Z- axis position that represents the worst-case orientation.

Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode RCV Mode
 Project: 06ME09603 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									
1	1816.606	38.11 pk	-28.8	27.1	36.41	54	-	-	-
	Azimuth:148	Height:101	Horz	Margin [dB]		-17.59	-	-	-

Horizontal 2000 - 3500MHz									
3	2726.742	37.77 pk	-27.7	29.4	39.47	54	-	-	-
	Azimuth:267	Height:101	Horz	Margin [dB]		-14.53	-	-	-

Horizontal 3500 - 7000MHz									
5	3635.378	34.49 pk	-26.6	31.7	39.59	54	-	-	-
	Azimuth:345	Height:101	Horz	Margin [dB]		-14.41	-	-	-
8	4543.348	33.08 pk	-25.4	32.4	40.08	54	-	-	-
	Azimuth:118	Height:101	Horz	Margin [dB]		-13.92	-	-	-
9	5451.317	31.39 pk	-23.8	34.1	41.69	54	-	-	-
	Azimuth:24	Height:101	Horz	Margin [dB]		-12.31	-	-	-

Vertical 1000 - 2000MHz									
2	1815.939	39.56 pk	-28.8	27.1	37.86	54	-	-	-
	Azimuth:99	Height:101	Vert	Margin [dB]		-16.14	-	-	-

Vertical 2000 - 3500MHz									
4	2726.242	36.89 pk	-27.7	29.4	38.59	54	-	-	-
	Azimuth:222	Height:101	Vert	Margin [dB]		-15.41	-	-	-

Vertical 3500 - 7000MHz									
6	3635.378	34.16 pk	-26.6	31.7	39.26	54	-	-	-
	Azimuth:74	Height:101	Vert	Margin [dB]		-14.74	-	-	-
7	4545.682	33.41 pk	-25.4	32.4	40.41	54	-	-	-
	Azimuth:266	Height:101	Vert	Margin [dB]		-13.59	-	-	-
10	5451.317	31.78 pk	-23.8	34.1	42.08	54	-	-	-
	Azimuth:118	Height:101	Vert	Margin [dB]		-11.92	-	-	-

LIMIT 1: FCC Part 15 Class B

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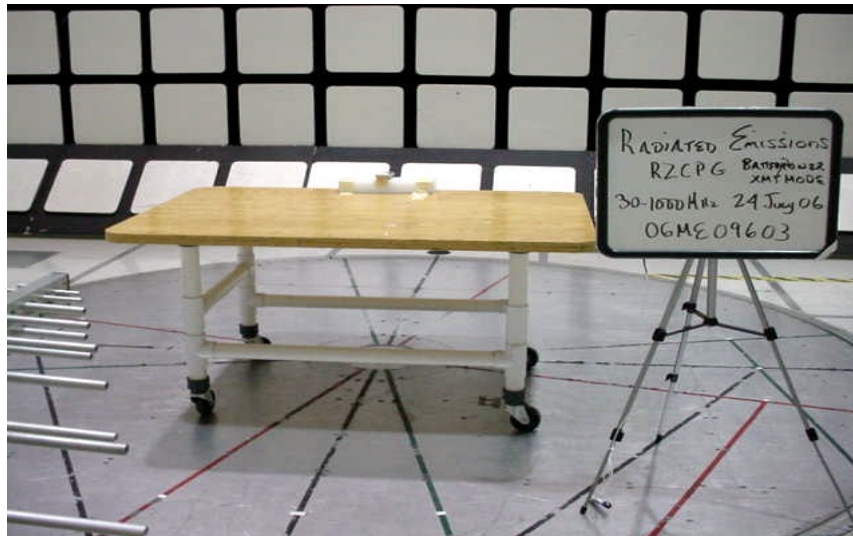
The device under test was tested in a Z- axis position that represents the worst-case orientation.

Leviton Mfg Co., Inc.
 Handheld Primary Controller
 RZCPG Battery Mode RCV Mode
 Project: 06ME09603 File:MC15211
 Tested By: GB Blue=H Green=V

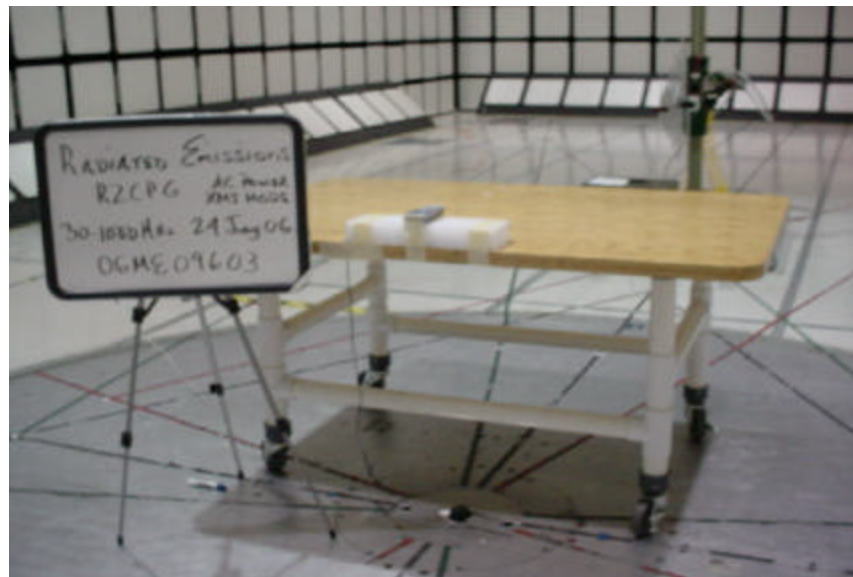
Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4
Frequency	Reading	Factor	Factor	dB[uVolts/meter]				
[MHz]	[dB(uV)]	[dB]	[dB]					
=====								
Horizontal 1000 - 2000MHz								
1816.9	29.17 ave	-28.8	27.1	27.47	54	-	-	-
Azimuth: 297	Height:126	Horz	Margin	[dB]:	-26.53	-	-	-
Horizontal 2000 - 3500MHz								
2725.3	27.45 ave	-27.7	29.4	29.15	54	-	-	-
Azimuth: 143	Height:123	Horz	Margin	[dB]:	-24.85	-	-	-
Horizontal 3500 - 7000MHz								
3633.5	27.14 ave	-26.6	31.6	32.14	54	-	-	-
Azimuth: 51	Height:160	Horz	Margin	[dB]:	-21.86	-	-	-
4542.6	25.69 ave	-25.4	32.4	32.69	54	-	-	-
Azimuth: 11	Height:107	Horz	Margin	[dB]:	-21.31	-	-	-
5450.5	28.66 ave	-23.8	34.1	38.96	54	-	-	-
Azimuth: 11	Height:104	Horz	Margin	[dB]:	-15.04	-	-	-
Vertical 1000 - 2000MHz								
1816.9	29.25 ave	-28.8	27.1	27.55	54	-	-	-
Azimuth: 143	Height:101	Vert	Margin	[dB]:	-26.45	-	-	-
Vertical 2000 - 3500MHz								
2725.3	27.46 ave	-27.7	29.4	29.16	54	-	-	-
Azimuth: 14	Height:110	Vert	Margin	[dB]:	-24.84	-	-	-
Vertical 3500 - 7000MHz								
3633.5	27.09 ave	-26.6	31.6	32.09	54	-	-	-
Azimuth: 268	Height:134	Vert	Margin	[dB]:	-21.91	-	-	-
4542	25.62 ave	-25.4	32.4	32.62	54	-	-	-
Azimuth: 93	Height:167	Vert	Margin	[dB]:	-21.38	-	-	-
5450.2	28.67 ave	-23.8	34.1	38.97	54	-	-	-
Azimuth: 80	Height:149	Vert	Margin	[dB]:	-15.03	-	-	-

LIMIT 1: FCC Part 15 Class B
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 tm - Trace Math Result

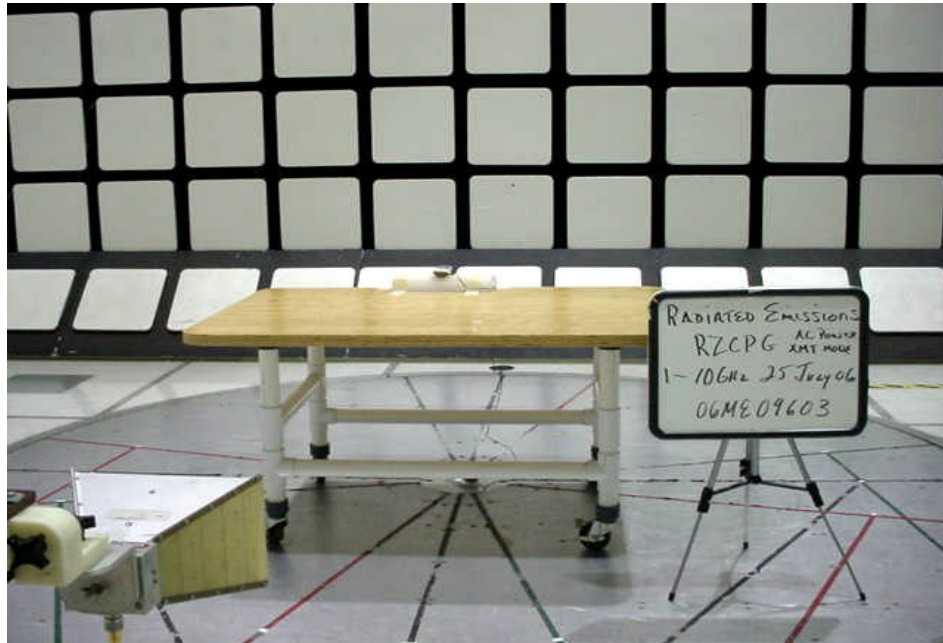
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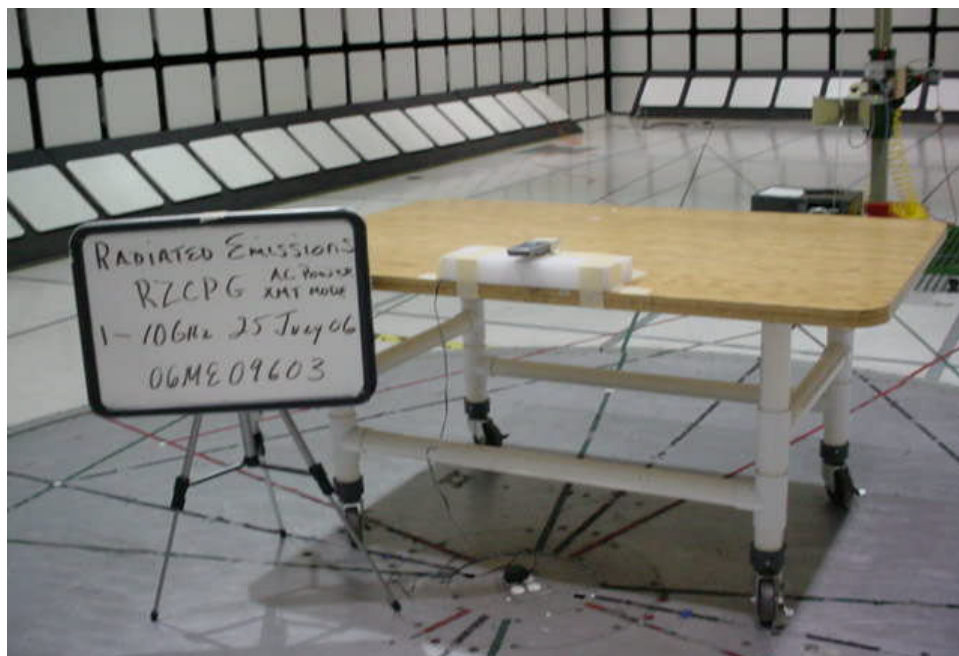
Model RZCPG – Front View 30-1000MHz



Model RZCPG – Rear View 30-1000MHz



Model RZCPG – Front View 1-10GHz



Model RZCPG – Rear View 1-10GHz

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

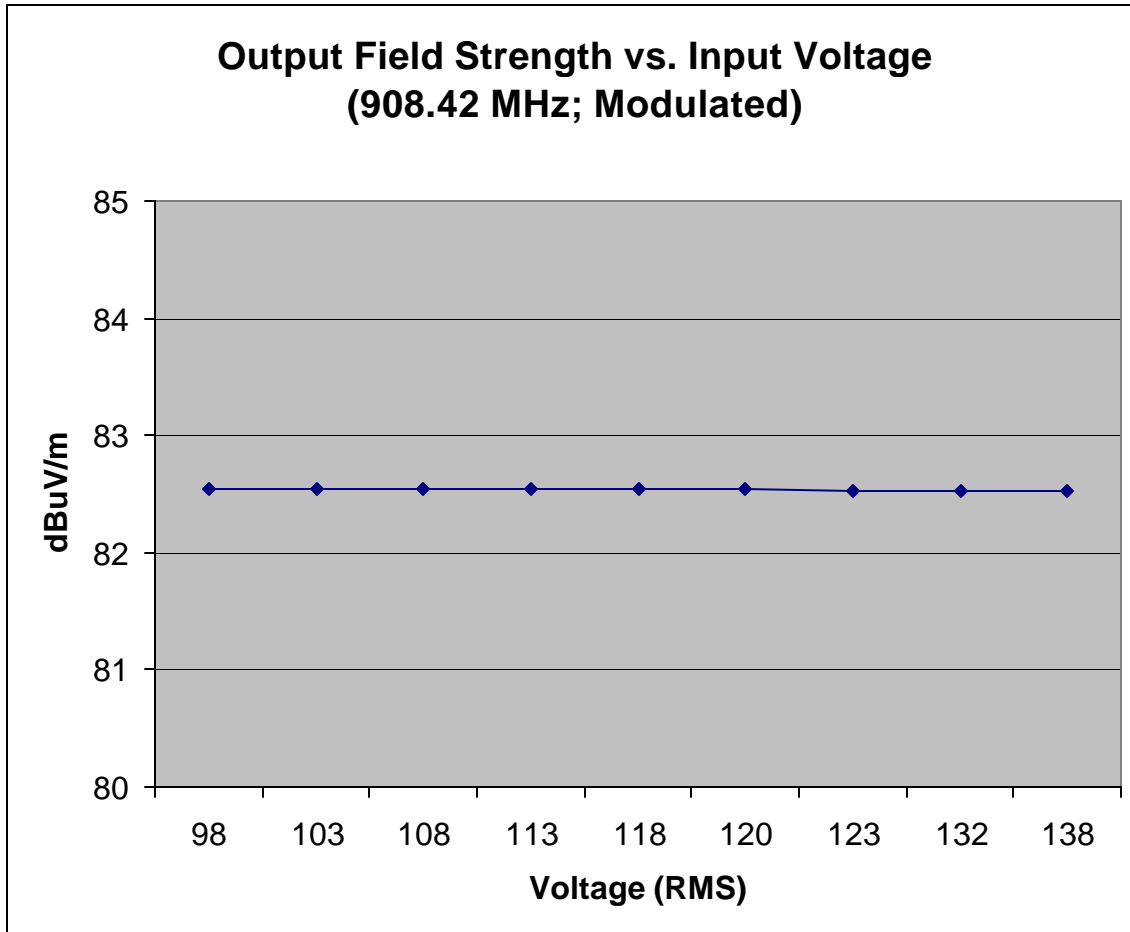
Spectrum Analyzer Settings				
Measurement Frequency	Preliminary Peak Scan		Final Detection	
	Resolution Bandwidth	Video Bandwidth	Quasi-Peak Bandwidth	Average Video Bandwidth
9kHz to 150kHz	10kHz	1MHz	200Hz	1Hz
150kHz to 30MHz	100kHz	1MHz	9kHz	1Hz

The following test parameters shall be established prior to test.

Parameter	Value	Units
Laboratory Ambient Temperature	15 to 35	°C
Relative Humidity	10 to 90	%

15.249 Limits

Input Voltage Level (RMS) @ 908.42MHz	Input Freq. Stability (MHz)	Measured @ 3 Meters (dB μ V/m)	Limit @ 3 Meters (dB μ V/m)	Max Delta @ 3 meters (dB μ V/m)
98	908.42	82.55	94	-11.45
103	908.42	82.55	94	-11.45
108	908.42	82.55	94	-11.45
113	908.42	82.55	94	-11.45
118	908.42	82.55	94	-11.45
120	908.42	82.54	94	-11.46
123	908.42	82.53	94	-11.47
132	908.42	82.53	94	-11.47
138	908.42	82.53	94	-11.47



RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	23	°C
Humidity:	33	%RH
Pressure:	1005	Mbar
Test Date	24 July 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	16 May 06	31 May 07

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	N/A	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
30-1000MHz	1MHz	1MHz	120kHz	1Hz

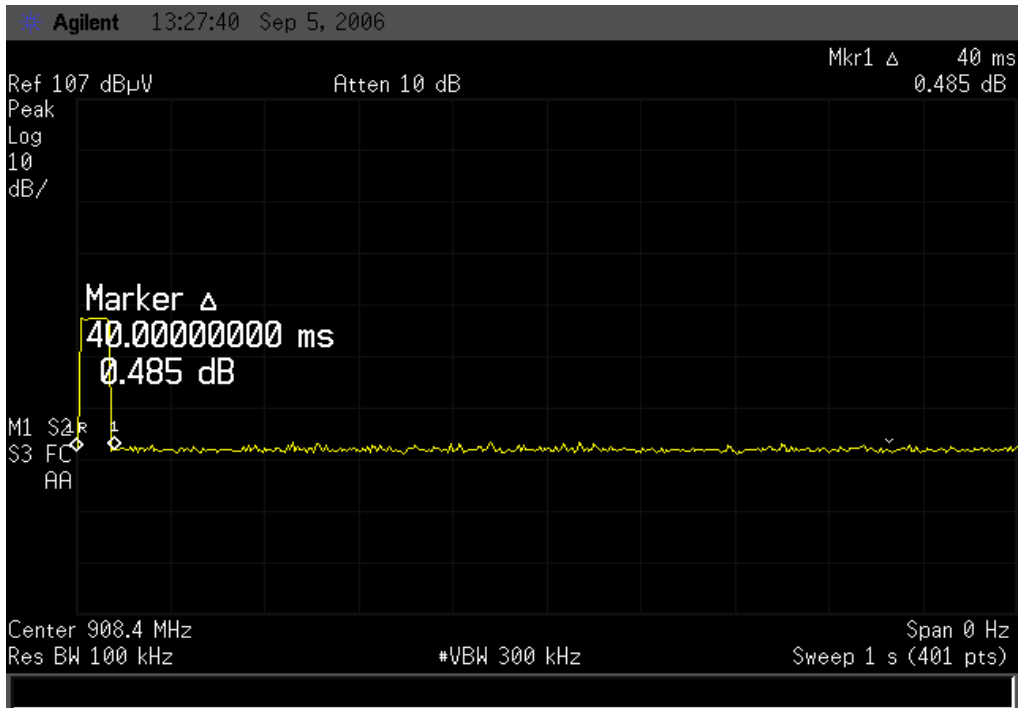
The following test parameters shall be established prior to test.

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

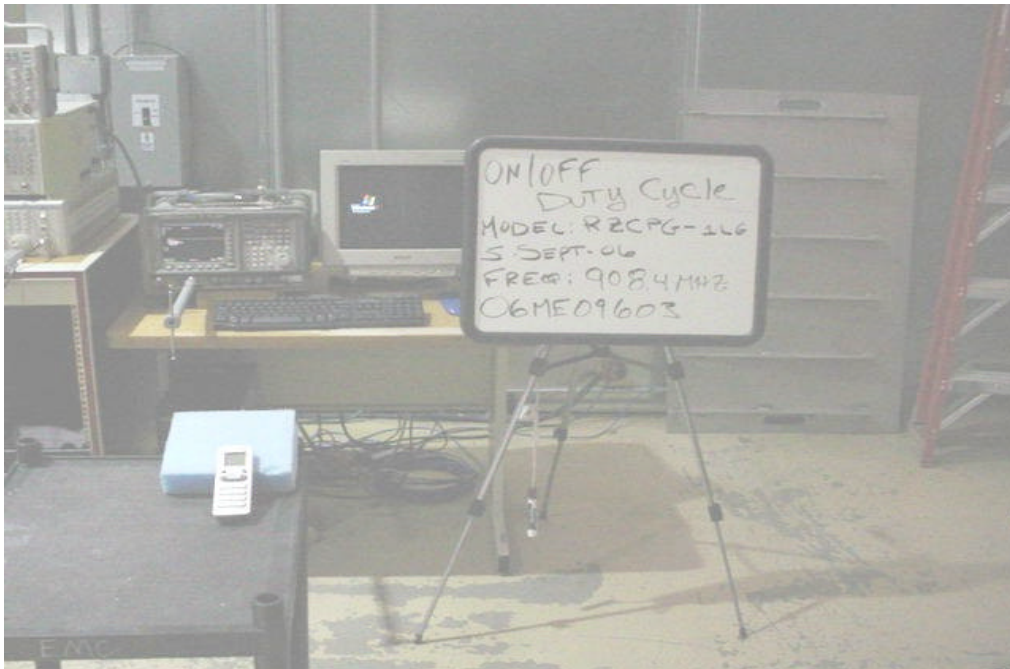
RESULTS

Ambient Conditions at the time of test.	Value	Units
Temperature:	22.5	°C
Humidity:	34	%RH
Pressure:	1001	Mbar
Test Date	5 September 06	

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



Transmission On Time



**Model RZM10
Duty Cycle Test Set-Up**

Project Number: 06ME09603
Model Number: RZCPG
FCC ID: QGH-RZCPG

File Number MC15211

Page 63 of 66

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Dipole Antenna	ElectroMetrics	3121C-D134	5751	16 Aug 06	31 Aug 07
EMI Spectrum Analyzer	Agilent Technologies	E7402A	ME5B-123	3 Oct. 05	31 Oct. 06
Hygrometer/Temp/Barometer	Cole-Parmer	99760-00	ME4-268	15 Aug 06	30 Jun 07

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 = 40

$$\text{Duty cycle correction factor} = 20 \log (40\text{ms} / 100\text{ms})$$

$$= 20 \log (0.4)$$

$$= - 7.9\text{dB}$$

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.

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