



PCTEST Engineering Laboratory, Inc.

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CERTIFICATE OF COMPLIANCE (Class II Permissive Change)

Manufacturer:

OHSUNG ELECTRONICS CO., LTD.
#181 Dong Dan-Dong
Gu-Mi Kyung Buk, Korea

Dates of Tests: June 17, 2004
Test Report S/N: B.240601329.OZ5
Test Site: PCTEST Lab, MD U.S.A.

FCC ID:

OZ5URCMRF250

APPLICANT

OHSUNG ELECTRONICS CO., LTD.

FCC Rule Part(s):

FCC Part 15 Subpart B - Receiver

FCC Classification:

Superregenerative Receiver (CRR)

Equipment EUT Type:

RF Receiver

Trade Name:

HOME THEATER MASTER

Rx Frequency:

418 MHz

Class II Change:

Additional Model: MRF-250RFS

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and has been tested in accordance with the measurement procedures specified is ANSI C63.4-1992. (See Test Report if any modifications were made for compliance). These measurements were performed with no deviation from the standards.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

CE: This device has shown compliance with the conducted emissions limits in 15.107, 15.207, or 18.307 adopted under FCC 02-157 (ET Docket 98-80). The device may be marketed after July 11, 2005, and is not affected by the 15.37(j) or 18.123 transition provisions.

NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Orlanez
President



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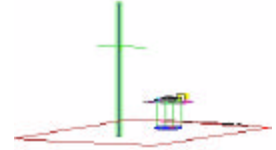
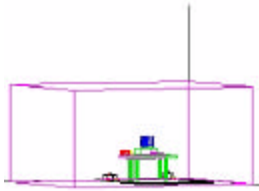
ATTACHMENT F: TEST SETUP PHOTOGRAPHS

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Test Report S/N: B. 240601329.OZ5	Test Dates: June 17, 2004	EUT Type: RF Receiver	FCC ID: OZ5URCMRF250	Page i of i

MEASUREMENT REPORT





Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

Company Name:	OHSUNG ELECTRONICS CO., LTD.
Address:	#181 Dong Dan-Dong Gu-Mi Kyung Buk, Korea

- Trade Name(s): **HOME THEATER MASTER**
- FCC ID: **OZ5URCMRF250**
- EUT Type: RF Receiver
- FCC Rule Part(s): FCC Part 15 Subpart B - Receiver
- Classification: Superregenerative Receiver (CRR)
- Test Procedure(s): ANSI C63.4 (1992) / EN55022: 1998 (CISPR 22) w/ A1 (2001)
- Dates of Tests: June 17, 2004
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: B.240601329.OZ5
- Class II Change: Additional Model: MRF-250RFS



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1.1 INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) was used in determining radiated and conducted emissions emanating from **OHSUNG RF Receiver FCC ID: OZ5URCMRF250**.

These measurement tests were conducted at **PCTEST Engineering Laboratory, Inc.** facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

1.2 PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure1).

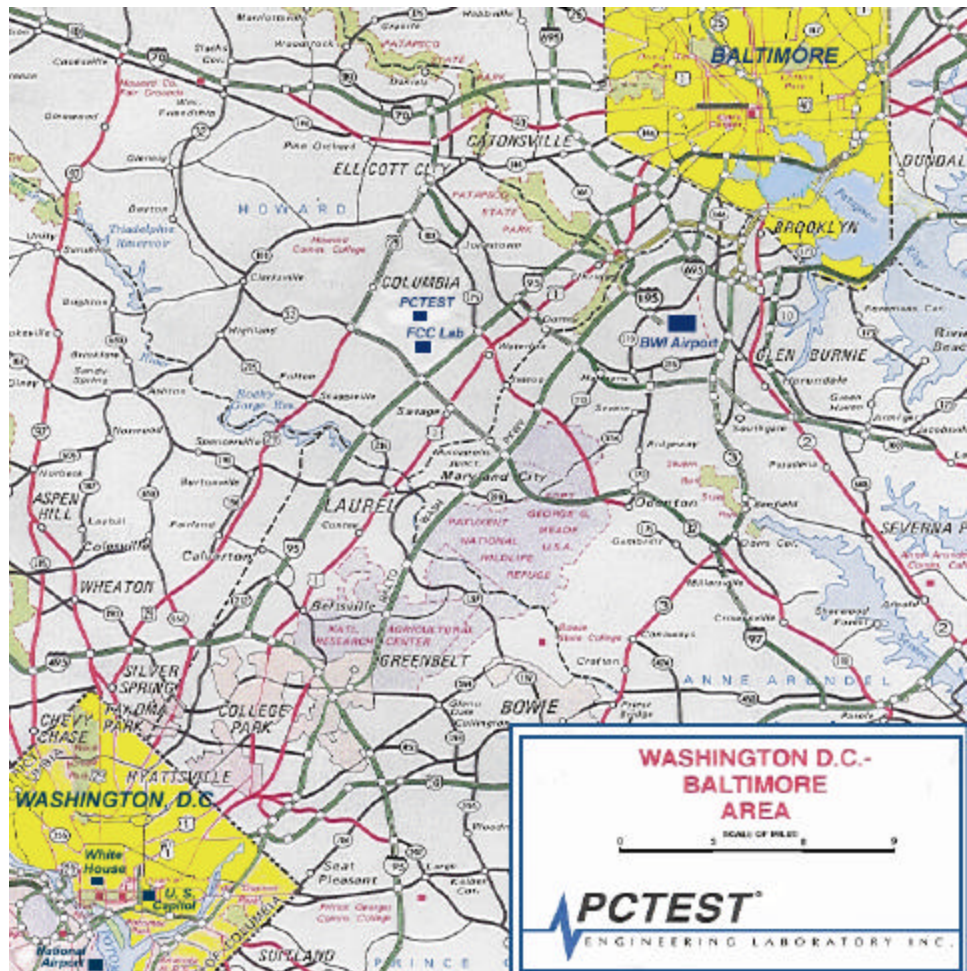




Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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2.1 Product Information

2.2 Equipment Description

The Equipment Under Test (EUT) is the **OHSUNG RF Receiver**.

The device is identical to the previously certified RF Receiver with the following changes:

1. Additional Model: MRF-250RFS

Separate Rx Module from main set:

Antenna Model: RFX-150 connected by 3.5PLUG to RF Receiver Model: MRF-250N.



Specification:

Frequency Range: 418 MHz
 Antenna: Omni directional
 Power Output: DC 9V 300mA
 IR Flasher Line Outputs: 2.5mm Mono Mini Jack
 Size: 5 1/8" x 3.5" x 1.25" (4.5" antenna up)

2.3 EMI Suppression Device(s)

EMI suppression device(s) added and/or modified during testing:

- none

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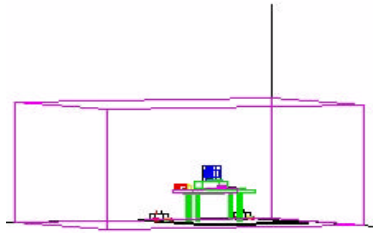


Figure 2. Shielded Enclosure Line-Conducted Test Facility

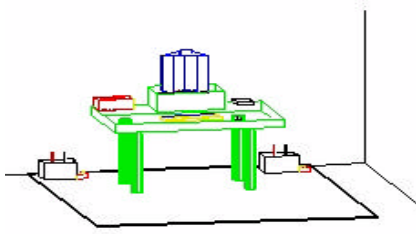


Figure 3. Line Conducted Emission Test Set-Up

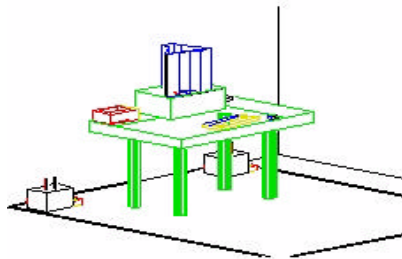


Figure 4. Wooden Table & Bonded LISNs

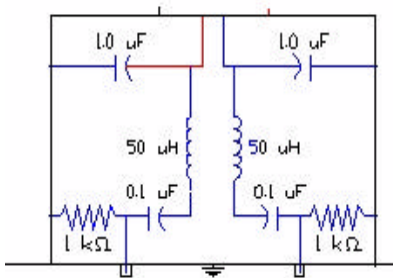




Figure 5. LISN Schematic Diagram

3.1 Description of Tests

3.2 Conducted Emissions

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 2).

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m. x 1.5m. wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room (see Figure 3). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 4). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the Solar LISN. LISN schematic diagram is shown in Figure 5. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 450kHz to 30MHz with 20 msec. sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix D. Each EME reported was calibrated using the HP8640B signal generator.

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3.1 Description of Tests (continued)

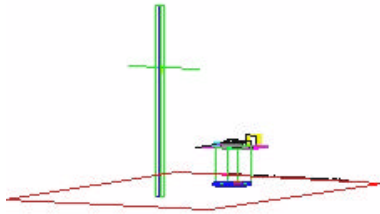


Figure 6. 3-Meter Test Site

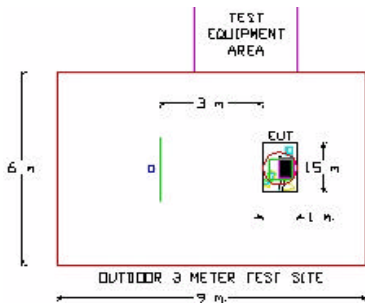


Figure 7. Dimensions of Outdoor Test Site

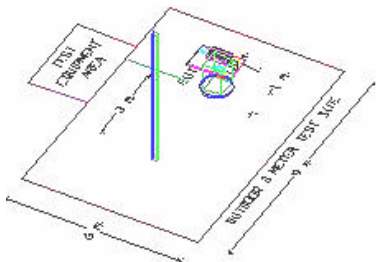


Figure 8. Turntable and System Setup

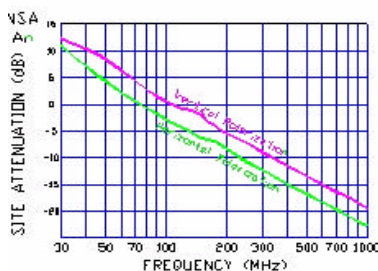




Figure 9. Normalized Site Attenuation Curves (H&V)

3.3 Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. From 1 to 4.2 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 7). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal.



The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 8). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 9.

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4.1 Support Equipment Used

- | | | |
|--------------------------|---|-----------------|
| 1. OHSUNG RF Receiver | FCC ID: OZ5URCMRF250
Model: MRF-250RFS
1.9 m. unshielded DC power cord
1.0 m. unshielded IR Flasher cables (5X)
4.1 m. unshielded cable | |
| 2. DAEWOO TV Set | Model: A13P20D
1.5 m. unshielded AC power cord | S/N: 4855415800 |
| 3. RCA VCR | Model: DV-K869N
2.0 m. unshielded AC power cord
1.0 m. shielded RF cable | S/N: PCT2016 |
| 4. PANASONIC DVD Player | FCC ID: DVD-RV31
1.8 m. unshielded AC power cord
1.0 m. unshielded AUDIO/ VIDEO cable | |
| 5. OHSUNG Remote Control | FCC ID: OZ5URCMX3000 | |

(See "Appendix E - Test Photographs" for actual system test setup.)

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5.1 LINE-CONDUCTED TEST DATA

5.2 Conducted Emissions

* **



(See Plots – ATTACHMENT D)

NOTES:

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device is Specified in EN55022 Standard from 150kHz to 30MHz.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

* *All readings are calibrated by HP8640B signal generator with accuracy traceable to the National Institute of Standards and Technology (formerly NBS).*

** *Measurements using CISPR quasi-peak mode.*

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6.1 RADIATED TEST DATA (Continued)

6.2 Radiated Emissions

FREQ (MHz)	Level (dBm)	AFCL (dB/m)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (uV/M)	Margin (dB)
32.09	-77.80	-0.70	V	2.3	240	26.66	-11.5
144.44	-88.36	13.27	V	2.3	190	39.41	-11.6
232.69	-91.30	18.00	H	1.2	180	48.47	-12.3
401.77	-89.04	23.74	H	1.3	90	121.67	-4.3
406.07	-90.04	23.85	H	1.3	90	109.70	-5.2
420.37	-91.98	24.19	H	1.3	90	91.25	-6.8

Table 1. Radiated Measurements at 3-meters.

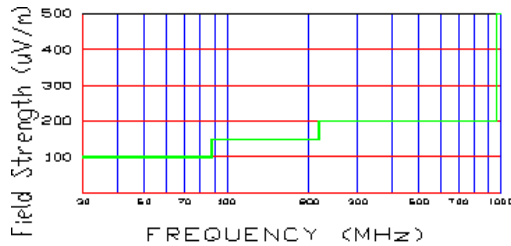




Figure 10. Limits at 3 meters

NOTES:

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The radiated limits are shown on Figure 10. Above 1 GHz the limit is 500mV/m
3. Measurements performed up to 2 GHz.
4. The receiver was cohered, pursuant to C63.4 section 12.1.1.

- * All readings are calibrated by HP8640B signal generator with accuracy traceable to the National Institute of Standards and Technology (formerly NBS).
- ** AFCL = Antenna Factor (Roberts dipole) and Cable Loss (30 ft. RG58C/U).
- *** Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

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7.1 Sample Calculations

$$\text{dBmV} = 20 \log_{10} (\text{mV/m})$$

$$\text{dBmV} = \text{dBm} + 107$$

7.2 Example 1:



@ 20.3 MHz

Class B limit	=	250 μV = 47.96 dB μV
Reading	=	- 67.8 dBm (calibrated level)
Convert to db μV	=	- 67.8 + 107 = 39.2 dB μV
$10^{(39.2/20)}$	=	91.2 μV
 Margin	 =	 39.2 - 47.96 = - 8.76
		= 8.8 dB below limit

7.3 Example 2:

@ 66.7 MHz

Class B limit	=	100 $\mu\text{V/m}$ = 47.96 dB $\mu\text{V/m}$
Reading	=	- 76.0 dBm (calibrated level)
Convert to db $\mu\text{V/m}$	=	- 76.0 + 107 = 31.0 dB $\mu\text{V/m}$
Antenna Factor + Cable Loss	=	5.8 dB
Total	=	36.8 dB$\mu\text{V/m}$
 Margin	 =	 36.8 - 40.0 = - 3.2
		= 3.2 dB below limit

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8.1 Accuracy of Measurement

8.2 Measurement Uncertainty Calculations:

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Line Conducted)	Probability Distribution	Uncertainty (\pm dB)	
		9kHz-150MHz	150-30MHz
Receiver specification	Rectangular	1.5	1.5
LISN coupling specification	Rectangular	1.5	1.5
Cable and input attenuator calibration	Normal (k=2)	0.3	0.5
Mismatch: Receiver VRC $\Gamma_1 = 0.03$ LISN VRC $\Gamma_R = 0.8$ (9kHz) 0.2 (30MHz) Uncertainty limits $20\text{Log}(1 \pm \Gamma_1 \Gamma_R)$	U-Shaped	0.2	0.35
System repeatability	Std. deviation	0.2	0.05
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	1.26	1.30
Expanded uncertainty	Normal (k=2)	2.5	2.6



Calculations for 150kHz to 30MHz:

$$u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)} = \pm \sqrt{\frac{1.5^2 + 1.5^2}{3} + \left(\frac{0.5}{2}\right)^2 + 0.35} = \pm 1.298\text{dB}$$

$$U = 2U_c(y) = \pm 2.6\text{dB}$$

Contribution (Radiated Emissions)	Probability Distribution	Uncertainties (\pm dB)	
		3 m	10 m
Ambient Signals		-	-
Antenna factor calibration	Normal (k=2)	± 1.0	± 1.0
Cable loss calibration	Normal (k=2)	± 0.5	± 0.5
Receiver specification	Rectangular	± 1.5	± 1.5
Antenna directivity	Rectangular	+ 0.5 / - 0	+ 0.5
Antenna factor variation with height	Rectangular	± 2.0	± 0.5
Antenna phase centre variation	Rectangular	0.0	± 0.2
Antenna factor frequency interpolation	Rectangular	± 0.25	± 0.25
Measurement distance variation	Rectangular	± 0.6	± 0.4
Site imperfections	Rectangular	± 2.0	± 2.0
Mismatch: Receiver VRC $\Gamma_1 = 0.2$ Antenna VRC $\Gamma_R = 0.67$ (Bi) 0.3 (Lp) Uncertainty limits $20\text{Log}(1 \pm \Gamma_1 \Gamma_R)$	U-Shaped	+ 1.1 - 1.25	± 0.5
System repeatability	Std. Deviation	± 0.5	± 0.5
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	+ 2.19 / - 2.21	+ 1.74 / - 1.72
Expanded uncertainty U	Normal (k=2)	+ 4.38 / - 4.42	+ 3.48 / - 3.44

Calculations for 3m biconical antenna. Coverage factor of k=2 will ensure that the level of confidence will be approximately 95%, therefore:

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$$U=2u_C(y) = 2 \times \pm 2.19 = \pm 4.38\text{dB}$$

9.1 Test Equipment

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Table 9-1. Annual Test Equipment Calibration Schedule

TYPE	MODEL	CAL. DUE DATE	SERIAL No.
Microwave Spectrum Analyzer	HP 8566 (100Hz-22GHz)	12/05/04	3638A08713
Microwave Spectrum Analyzer	HP 8566 (100Hz-22GHz)	04/17/05	2542A11898
Spectrum Analyzer/Tracking Generator	HP 8591A (9kHz-1.8GHz)	03/24/05	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	04/23/05	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/04	3051A00187
Signal Generator	HP 8650B (500Hz-1GHz)	06/02/05	2232A19558
Signal Generator	HP 8640B (500Hz-1GHz)	06/02/05	1851A09816
Signal Generator	Rohde & Schwarz (0.1-1GHz)	09/22/04	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30MHz-1GHz)	04/12/05	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30MHz-1GHz)	03/11/05	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/04	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/04	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/05	0194-04082
RG58 Coax Test Cable	No.167	03/26/05	n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)	11/15/04	3531A00115
Broadband Amplifier	HP 8447D	02/26/05	1145A00470
Broadband Amplifier	HP 8447D	02/26/05	1937A03348
Horn Antenna (2)	EMCO Model 3115 (1-18GHz)	03/15/05	9704-5182, 9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)	03/28/05	9203-2178
Biconical Antenna (3)	Eaton 94455-1	01/26/05	1295, 1332, 1277
Roberts Dipoles	Compliance Design (1 set) A100	08/11/04	5118
EMCO LISN (3)	3816/2, 3816/2, 3725/2	10/26/04	1077, 1079, 2099
50-ohm Terminator	n/a	n/a	n/a
Microwave Preamp 30dB Gain	HP 83017A (0.5-26.5GHz)	03/26/05	3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)	02/26/05	n/a
Spectrum Analyzer	HP 8591A	06/18/05	3034A01395
Modulation Analyzer	HP 8901A	06/26/05	2432A03467
Microwave Survey Meter	Holaday Model 1501 (2.45GHz)	02/21/05	80931
Digital Thermometer	Extech Instruments 421305	03/15/05	426966
Attenuator	4108 (6dB)	3/26/05	
Shielded Screen Room	RF Lindgren Model 26-2/2-0	n/a	6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81	04/15/05	R2437 (PCT278)
Environmental Chamber	Associated Systems 1025	08/08/04	PCT285
OATS	n/a	12/31/04	

10.1 Test Software Used



```

10   CLS:COLOR 7,0
20   FOR I = 1 TO 80
30   PRINT H;
40   NEXT I
50   FOR K= 1 TO 25
60   LPRINT H;
70   NEXT K
80   OPEN COM1:1200,N,8,1,CS0,DS0" FOR OUTPUT AS #1
90   PRINT#1,ATDT,0123456789"
100  CLOSE:GOTO 20

```

NOTE:



This is a sample of the basic program used during the test. However, during testing, a different software program may be used; whichever determines the worst-case condition. In addition, the program used also depends on the number and type of devices being tested.

PCTEST PT. 15 REPORT	 Measurement Report 			Reviewed By: Quality Manager
Test Report S/N: B.240601329.OZ5	Test Dates: June 17, 2004	EUT Type: RF Receiver	FCC ID: OZ5URCMRF250	Page 12 of 13

11.1 Conclusion

The data collected shows that the **OHSUNG RF Receiver FCC ID: OZ5URCMRF250** with the Class II Permissive Change(s) described herein continues to comply with §§ 15.107 and 15.109 of the FCC Rules.

No modifications were made to the device.

PCTEST PT. 15 REPORT	 Measurement Report			Reviewed By: Quality Manager
Test Report S/N: B.240601329.OZ5	Test Dates: June 17, 2004	EUT Type: RF Receiver	FCC ID: OZ5URCMRF250	Page 13 of 13