



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Unigen Corporation

Model: UGWDS82NSM33

Description: 802.11 b/g/n WiFi Radio Module

To

FCC Part 1.1310

Date of Issue: October 14, 2011

On the behalf of the applicant:

**Unigen Corporation
45388 Warm Springs Blvd
Fremont, CA 94539**

Attention of:

**Allen Cabreros, Director of Wireless
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E-mail: acabreros@unigen.com**

By the request of:

**ECotality North America
430 S. 2nd Ave
Phoenix, AZ 85003-2418**

**Prepared by
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Project No: p1180014**

**John Erhard
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 14, 2011	John Erhard	Original Document



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless noted in the table below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC OATS Reg, #933597

IC Reg. #2044A-1

Non-accredited tests contained in this report:

N/A



Name of Test: Environmental Assessment

Specification: FCC: 47 CFR 1.1310

Measurement Guide: ANSI/IEEE C95.1 1992

Name of Test: R.F. Radiation Exposure

FCC Rules: 1.1307, 1.1310, 1.1311, 2.1091

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm ²] = 100
	1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
	30-300 MHz:	Limit [mW/cm ²] = 0.2
	300-1500 MHz:	Limit [mW/cm ²] = f/1500
	1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Frequencies, MHz	2412
Power, Conducted, W (P)	0.03837
Antenna Gain Isotropic	dBi 5
Antenna Gain Numeric (G)	3.16
Antenna Type	PCB
Distance (R)	20 cm

Power Density Calculations	Formula =	$S = PG / 4R^2$
	Power Density (S) =	0.0024518542
	Limit =	1.0

END OF TEST REPORT