Compliance Testing, LLC
Previously Flom Test Lab
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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: PBE-M5

Description: PowerBeam M5

FCC ID: SWX-PBE5M

To

FCC Part 1.1310

Date of Issue: May 12, 2015

On the behalf of the applicant: **Ubiquiti Networks, Inc**
91 E. Tasman Drive
San Jose, CA 95134

Attention of: **Michael Taylor, Compliance Manager**
Ph: (408) 942-3085
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Project No: p14a0028

Alex Macon
Project Test Engineer

Compliance Testing, LLC
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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	May 11, 2015	Alex Macon	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 below

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

Testing Certificate Number: **2152.01**

ilac-MRA

A2LA ACCREDITED TESTING CERT #2152.01

FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: PBE-M5
Description: PowerBeam M5
Firmware: N/A
Software: N/A
Serial Number: N/A
Additional Information: The EUT is a 2x2 MIMO 802.11n radio

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
5200	74.1	100	74.1

MPE Evaluation

This is a **fixed/mobile** device used in uncontrolled /general population exposure environment.

Limits Uncontrolled Exposure	0.3-1.234 MHz	Limit [mW/cm²] = 100
47 CFR 1.1310	1.34-30 MHz	Limit [mW/cm²] = (180/f²)
Table 1, (B)	30-300 MHz	Limit [mW/cm²] = 0.2
	300-1500 MHz	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	5200
Power, Conducted, mW (P)	74.1
Antenna Gain Isotropic	6
Antenna Gain Numeric (G)	3.98
Antenna Type	Omni
Distance (R)	20

$$S = \frac{P * G}{4\pi r^2}$$

Power Density (S) mw/cm^2	Power mW (P)	Numeric Gain (G)	Distance (r^2) cm
	74.1	3.98	20

Power Density (S) =	0.058
Limit =(from above table) =	1.0

END OF TEST REPORT