



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: R5-AC-PTP

Description: Rocket 5AC PTP

FCC ID: SWX-R5ACPTP

To

FCC Part 1.1310

Date of Issue: 1/31/2016

On the behalf of the applicant:

Ubiquiti Networks, Inc
2580 Orchard Parkway
San Jose, CA 95131

Attention of:

Michael Taylor, Compliance Manager
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Prepared By
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Project No: p15a0017

Kenneth Lee
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	November 9, 2015	Kenneth Lee	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**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: R5-AC-PTP

Description: Rocket 5AC PTP

Software: N/A

Serial Number: N/A

Additional Information: The EUT is a 2x2 MIMO 802.11ac radio

MPE Evaluation

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

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 Data

Test Frequency, MHz	5800
Power, Conducted, mW (P)	89.125
Antenna Gain Isotropic	31dBi
Antenna Gain Numeric (G)	1258.93
Antenna Type	Dish
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
	89.125	1258.93	20

Power Density (S) =	22.322
Limit =(from above table) =	1.0

The Power Density of 99.684 mw/cm² is over the limit of 1.0 mw/cm² for the uncontrolled /general population exposure environment so Minimum Safe Distance was calculated.

Minimum Safe Distance Evaluation

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

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (B)

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Antenna Type	Dish
Limit (L)	20

$R = \sqrt{(PG/4\pi L)}$			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
94.516	89.125	1258.93	20

The minimum safe distance is 94.516 cm

END OF TEST REPORT