



# Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

[info@ComplianceTesting.com](mailto:info@ComplianceTesting.com)

## Test Report

Prepared for: Ubiquiti Networks, Inc

Model: RP-5AC-Gen2

Description: RocketPrism 5AC (G2)

Serial Number: N/A

FCC ID: SWX-RP5ACG2

To

FCC Part 1.1310

Date of Issue: April 11, 2017

On the behalf of the applicant:

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

Attention of:

Michael Taylor, Compliance Manager  
Ph: (408) 942-3085  
E-mail: [compliance@ubnt.com](mailto:compliance@ubnt.com)

Prepared By  
Compliance Testing, LLC  
1724 S. Nevada Way  
Mesa, AZ 85204  
(480) 926-3100 phone / (480) 926-3598 fax  
[www.compliancetesting.com](http://www.compliancetesting.com)  
Project No: p1710008

Alex Macon  
Project Test Engineer

This report may not be reproduced, except in full, without written permission from Compliance Testing  
All results contained herein relate only to the sample tested



### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	September 2, 2015	Alex Macon	Original Document
2.0	March 7, 2017	Alex Macon	Added limit to the table under "test data"
3.0	April 7, 2017	Alex Macon	Added Referenced Test Data section to page 6

## 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:** RP-5AC-Gen2

**Description:** RocketPrism 5AC (G2)

**Firmware:** AirOS 8.0.1

**Software:** AirOS 8.0.1

**Additional Information:** None

### Reference Test Data:

This report contains test data from a device which has already been certified pursuant to Part 15.407  
FCC ID: SWX-R5ACP

The certification being sought for RP-5AC-Gen2 contains the same RF circuitry as the mentioned FCC ID. The Gen2 device incorporates the 2.4GHz emission which was turned off via software in the previous certification.

Testing was performed to FCC Part 15.247 to address the different emissions. This report is included under the 15.247 certification, FCC ID SWX-RP5ACG2



### Source Based Time Averaged Power Calculation

#### Power calculations

<b>Tuned Frequency (MHz)</b>	<b>Conducted Average Output Power (mW)</b>	<b>Duty Cycle (%)</b>
5800	372	100



**MPE Evaluation**

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

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

**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)**

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

**Test Data**

Test Frequency, MHz	5830
Power, Conducted, mW (P)	371
Antenna Gain Isotropic	31dBi
Antenna Gain Numeric (G)	1259
Antenna Type	Dish
Limit (L)	1.0

$R = \sqrt{(PG/4\pi L)}$
Distance (R)
193.0cm

**The minimum safe distance is 193cm**

END OF TEST REPORT