



## **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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### **Test Report**

**Prepared for: Proxim Wireless**

**Model: NGP1058**

**Description: 4.9GHz Module**

**Serial Number: N/A**

**FCC ID: HZB-NGP1058W**

**To**

**FCC Part 1.1310**

**Date of Issue: March 10, 2017**

**On the behalf of the applicant:**

**Proxim Wireless  
47633 Westinghouse Dr  
Fremont, CA 95131**

**Attention of:**

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Project No: p16b0011**

**Poona Saber  
Project Test Engineer**

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All results contained herein relate only to the sample tested



**Test Report Revision History**

Revision	Date	Revised By	Reason for Revision
1.0	January 5, 2017	Poona Saber	Original Document
2.0	March 9, 2017	Poona Saber	Changed portable to fixed/mobile device

## 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:** NGP1058

**Description:** 4.9GHz Module

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A

**Additional Information:** The EUT is a 2x2 MIMO, 802.11 ac Module running with an extension cable outside of the host and it's powered by POE. It uses panel antenna of 23 dBi for point to point applications and 10 dBi omni and 17 dBi sector antenna for point to multi point applications.

### **EUT Operation during Tests**

The EUT was controlled using the manufacturers HTML terminal



### Source Based Time Averaged Power Calculation

#### Average Power calculations

Average Power = Peak Power \* duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
4965	14.45	100	mW



## MPE Evaluation

This is a Mobile/fixed device used in Uncontrolled 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	4965
Power, Conducted, mW (P)	14.45
Antenna Gain Isotropic	17 dBi
Antenna Gain Numeric (G)	50.11
Antenna Type	Sector antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm <sup>2</sup>

Power Density (S) = 0.144
Limit =(from above table) = 1

END OF TEST REPORT