

Company: Tarana Wireless

MPE Evaluation of: AA2-CN65AFP

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Report No.: TARA25-MPE

**MPE/RF EXPOSURE TEST REPORT**



# MPE/RF EXPOSURE TEST REPORT

FROM



MPE Evaluation of: Tarana Wireless AA2-CN65AFP  
to

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Test Report Serial No.: TARA25 - Absolute Air 2 FCC IC 5GHz

This report supersedes: NONE

Applicant: Tarana Wireless  
2953 Bunker Hill Lane  
Santa Clara, California 95054  
USA

Product Function: Tarana Wireless fixed Multi-link  
backhaul radio product

Issue Date: 6th December 2016

## This Test Report is Issued Under the Authority of:

**MiCOM Labs, Inc.**  
575 Boulder Court  
Pleasanton California 94566  
USA  
Phone: +1 (925) 462-0304  
Fax: +1 (925) 462-0306  
[www.micomlabs.com](http://www.micomlabs.com)



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## 1. MAXIMUM PERMISSABLE EXPOSURE

### Calculations for Maximum Permissible Exposure Levels

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = \text{EIRP}/(4\pi d^2)$$

$$\text{EIRP} = P * G$$

$$P = \text{Peak output power (mW)}$$

$$G = \text{Antenna numeric gain (numeric)}$$

$$d = \text{Separation distance (cm)}$$

$$\text{Numeric Gain} = 10^G \text{ (dBi)/10}$$

Because the EUT belongs to the Occupational/Controlled Exposure the limit of power density is 5.0 mW/cm<sup>2</sup>

These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 5mW/cm <sup>2</sup>	Calculated Power Density @ 20cm (mW/cm <sup>2</sup> )	Minimum Separation Distance (cm)
5150.0 - 5250.0	14.00	25.12	29.98	995.41	19.95	4.97	20.00
5725.0 - 5850.0	14.00	25.12	29.96	990.43	19.95	4.95	20.00

Assessment for simultaneous operation:

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 5mW/cm <sup>2</sup>	Calculated Power Density @ 20cm (mW/cm <sup>2</sup> )	Minimum Separation Distance (cm)
5150.0 - 5250.0	14.00	25.12	29.98	995.41	19.95	4.97	20.00
5725.0 - 5850.0	14.00	25.12	29.96	990.43	19.95	4.95	20.00
-							
<b>EIRP TOTAL (mW/EIRP) : 49892.0</b>					<b>28.2</b>	<b>9.92</b>	<b>29.0</b>

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**Specification**  
**Maximum Permissible Exposure Limits**

**FCC §1.1310** Limit = 5mW / cm<sup>2</sup> from 1.310 Table 1

Because the EUT belongs to the Occupational/Controlled Exposure the limit of power density is 5.0 mW/cm<sup>2</sup>

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575 Boulder Court  
Pleasanton, California 94566, USA  
Tel: +1 (925) 462 0304  
Fax: +1 (925) 462 0306  
[www.micomlabs.com](http://www.micomlabs.com)

