

Company: Silver Spring Networks

Evaluation of; Milli 5

To: FCC CFR 47 Part 15 RF Exposure requirements

Report No.: SSNT122 MPE

## MPE TEST REPORT



# MPE TEST REPORT

FROM



Evaluation of: Silver Spring Networks Milli 5

to

To: FCC CFR 47 Part 15 RF Exposure requirements

Test Report Serial No.: SSNT122 MPE

This report supersedes: NONE

Applicant: Silver Spring Networks  
230 W Tasman Dr  
San Jose, California 95134  
USA

Product Function: 900 MHz Radio Device

Issue Date: 20<sup>th</sup> September 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

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

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

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is  $0.6 \text{ mW/cm}^2$

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. 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 @ $0.6 \text{ mW/cm}^2$	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
902.0 – 928.0	3.0	2.00	23.77	238.23	7.94	0.09	20.0

**Note:** for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

### Specification

#### Maximum Permissible Exposure Limits

**FCC §1.1310** Limit =  $1 \text{ mW} / \text{cm}^2$  from 1.310 Table 1



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