

Company: Tehama Wireless

Evaluation of: TW-222  
To: FCC CFR 47 Part 1.1310

Report No.: TEHA07\_MPE TW 222 FCC

## MPE REPORT



# MPE TEST REPORT

FROM



Evaluation of: Tehama Wireless TW-222  
to

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: TEHA07\_MPE TW 222 FCC

This report supersedes: NONE

Applicant: Tehama Wireless  
2607 7th Street  
Berkeley, California 94710  
USA

Product Function: Wireless reader

Issue Date: 19th December 2016

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

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## 1. MAXIMUM PERMISSABLE EXPOSURE

### Calculations for Maximum Permissible Exposure Levels

Power Density =  $P_d$  (mW/cm<sup>2</sup>) =  $EIRP / (4 \cdot \pi \cdot d^2)$

$EIRP = P \cdot G$

$P$  = Peak output power (mW)

$G$  = Antenna numeric gain (numeric)

$d$  = Separation distance (cm)

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 0.61 mW/cm<sup>2</sup>

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 Power Density (mW/cm <sup>2</sup> ) @ 20cm	Minimum Separation Distance (cm)
902-928	1.5	1.41	27.83	606.7	0.17	20.00

**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 = 0.61mW / cm<sup>2</sup> from 1.310 Table 1



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