

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

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

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

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

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

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

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 0.61 mW/cm²

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 ²) @ 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 / cm² from 1.310 Table 1



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