

Company: Tehama Wireless

Test of: Wireless Meter Reader

To: FCC CFR 47 Part 15 Subpart C 15.247 (DTS)

Report No.: TEHA06-MPE Rev A

MPE TEST REPORT



MPE TEST REPORT

FROM



Test of: Tehama Wireless TW-160-P

to

To: FCC CFR 47 Part 15 Subpart C 15.247 (DTS)

Test Report Serial No.: TEHA06-MPE Rev A

This report supersedes: NONE

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

Product Function: Wireless Meter Reader

Issue Date: 7th July 2016

This Test Report is Issued Under the Authority of:

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

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

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

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

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

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

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 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.

Per FCC 1.1310 Power density Limit for device operating in frequency range 300 to 1500MHz = f/1500 (mW/cm²)

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ²	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
902.0 – 928.0	1.3	1.35	9.20	8.32	1.20	0.03	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 = 1mW / cm² from 1.310 Table 1

RSS-Gen §3.2 In addition to RSS-Gen, the requirements in Radio Standards Specification RSS-102 shall be met.



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