

**SECTION 4**

**RF EXPOSURE INFORMATION**

#### 4.1 RF Safety Requirements to 2.1091 for Mobile Transmitters

##### Power Output

The EUT's maximum expected output power as shown in section 2.6 is

| Frequency of Fundamental (MHz) | Measurement (dBm) | Measurement (Watt) |
|--------------------------------|-------------------|--------------------|
| 1611.25                        | 21.65             | 0.146              |

##### Source Based Time Averaging

This information has not been included and the MPE calculations specified below do not take into consideration any duty cycle correction.

##### MPE Calculations

The limits for this unit (uncontrolled exposure) is  $1.0 \text{ mW/cm}^2$ . Taking the RF Density Field Equation:

$$S = (\text{EIRP in mW}) / (4\pi R^2) \text{ and solving for Distance R}$$

$$R = \text{SQRT} (\text{EIRP in mW}) / (S4\pi)$$

Solving the above equation yields

$$R (\text{cm}) = \text{SQRT} (156.3(\text{mw})) / (1.0(\text{mW/cm}^2) * 4 * \pi) = 5.6 \text{ cm}$$

The device should be installed to maintain 20 cm from humans during use. Information regarding installation and use should be contained in the users manual.