

# RF Safety Requirements to 2.1091 for Mobile Transmitters

FCC ID: MTF071473  
EUT TX Characteristics  
Antenna type: External whip type folding antenna  
Measured EIRP (dBm): 19.01 or 0.80 Watts  
At frequency (MHz): 1851.25  
  
MPE Limit (mW/cm<sup>2</sup>): 5

Given the following equation  
Equation 1:

$$P_d = \frac{P_t G_t}{4\pi r^2}$$

Solve for r:  
Equation 2:

$$r = \sqrt{\frac{P_t G_t}{4\pi P_d}}$$

Using Equation 1, the power density at 20 cm is: 1.58 mW/cm<sup>2</sup>  
Using Equation 2, the MPE limit is met at: 11.3 cm