

## RF Safety Requirements to 2.1091 for Mobile Transmitters

FCC ID: MTF050398  
EUT TX Characteristics  
Antenna type: External whip type folding antenna  
Measured EIRP (dBm): 26.6 or 0.46 Watts  
At frequency (MHz): 1880  
  
MPE Limit (mW/cm<sup>2</sup>): 1

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: 0.91 mW/cm<sup>2</sup>  
Using Equation 2, the MPE limit is met at: 19.1 cm

## RF Safety Requirements to 2.1091 for Mobile Transmitters

FCC ID: MTF050398  
EUT TX Characteristics  
Antenna type: External whip type folding antenna  
Measured EIRP (dBm): 24.2 or 0.26 Watts  
At frequency (MHz): 836.52  
  
MPE Limit (mW/cm<sup>2</sup>): 0.55768

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: 0.52 mW/cm<sup>2</sup>  
Using Equation 2, the MPE limit is met at: 19.4 cm