

RF Exposure Information

9.0 RF Exposure Evaluation FCC 2.1091

The EUT is a device used in mobile applications. The maximum EIRP is 1.78 W without taken into account the Duty Cycle, which is 1/8 for GSM devices. To show compliance with RF Exposure Requirement, the Power Density was calculated using the formula:

$$S = \text{EIRP} / 4\pi D^2$$

where: S is Power Density in W/m²
D is the distance from the antenna.

The distance, where S = MPE,

$$D_{\min} = \sqrt{(\text{EIRP}) / 4\pi(\text{MPE})}$$

For general population/uncontrolled exposure MPE = 10 W/m²
Therefore, $D_{\min} = 0.12 \text{ m}$

In conclusion, the EUT meets the FCC Part 2.1091 MPE requirements at 0.2 m.