

RF Exposure evaluation

FCC 2.1091

The maximum calculated EIRP is 53.4dBm = 218.78W.

Using the formula for the Power Density, $S = \text{EIRP} / 4\pi D^2$, D = distance, where the Maximum Permissible Exposure (MPE) satisfies the FCC 1.1310 limit for General Population/Uncontrolled Exposure, can be calculated as:

$$D \geq \sqrt{(\text{EIRP} / 4\pi S)}$$

The MPE Limit is 1 mW/cm², therefore D ≥ 132 cm is the minimum safe distance.

The end user/installer will be instructed to maintain a distance of at least 135 cm between the antenna and persons.