

Exposure limit according to 1.1307(b)

Limit for power density for general population/uncontrolled exposure is $f/1500 \text{ mW/cm}^2$ for 300 – 1500 MHz frequency range:

$$P = 915/1500 = 0.61 \text{ mW/cm}^2$$

The power density **P (mW/cm²)** = $P_T / 4\pi r^2$

Where **P_T** is the maximum equivalent isotropic radiated power (EiRP)

$$P_T = 6.33 \text{ dBm} + 0 \text{ dBi} = 6.33 \text{ dBm} = 4.3 \text{ mW}.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$4.3 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.000855 \text{ mW/cm}^2 < 0.61 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.