

Exposure limit according to §2.1091 and §1.1307

The device is classified as mobile.

1) The transmitter maximum output power is 9.98 dBm (the antenna gain is 0 dBi), i.e., approximately 10 mW that is less than the FCC part 2, §2.1091 limit of 1.5 W.

2) Limit for power density for general population/uncontrolled exposure is $f/1500$ mW/cm² for 300 – 1500 MHz frequency range:

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

The power density $P \text{ (mW/cm}^2) = P_T / 4\pi r^2$

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

$$10 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.002 \text{ mW/cm}^2 \ll 0.61 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.