

**Environmental evaluation and exposure limit according to FCC CFR 47part 1,
§1.1307, §1.1310**

The transceiver is classified as mobile, the calculation was done for power density at 20 cm distance.

Power density limit for general population/uncontrolled exposure in 30 – 300 MHz frequency range is 0.2 mW/cm².

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

P_T is the maximum equivalent isotropically radiated power (EIRP), which is equal to:

transmitter maximum output power 18 dBm plus maximum antenna gain 2 dBi and the maximum equivalent isotropically radiated power is 20 dBm = 100 mW.

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

$$P = 100 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.02 \text{ mW/cm}^2 < 0.2 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.