Exposure limit according to §15.247(i) and §1.1307

The device is classified as mobile.

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

$P = 902/1500 = 0.6$ mW/cm^2

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

P_T is the transmitted power, which is equal to the peak transmitter output power in FHHS mode 29.54 dBm plus maximum antenna gain 4 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 29.54 \text{ dBm} + 4 \text{ dBi} = 33.54 \text{ dBm} = 2260 \text{ mW}.$$

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

$$2260 \text{ mW} / 4\pi \ (20 \text{ cm})^2 = 0.45 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.