Exposure limit according to §15.247(i)

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 **P (mW/cm^2)** $=$ **P$_T$** / **4π r^2**

P$_T$ is the transmitted power, which is equal to the peak transmitter output power in FHSS mode 25.6 dBm plus maximum antenna gain 3 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 25.6 \text{ dBm} + 3 \text{ dBi} = 28.6 \text{ dBm} = 724 \text{ mW}.$$

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

$$724 \text{ mW} / 4\pi (20 \text{ cm})^2 \approx 0.14 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.