Exposure limit according to §15.247(i) and RSS-102

The device is classified as mobile.

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

 $P = 902/1500 = 0.6 \text{ mW/cm}^2$

The power density P (mW/cm²) = P_T / 4π r²

 P_{T} is the transmitted power, which is equal to the peak transmitter output power in FHSS mode 17.43 dBm plus maximum antenna gain 3 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 17.43 \text{ dBm} + 3 \text{ dBi} = 20.43 \text{ dBm} = 110 \text{ mW}.$$

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

$$110 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.02 \text{ mW/cm}^2 << 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.