RF exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

The transceiver 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

iDEN: P = 851/1500 = **0.567 mW/cm^2**

SMR: P = 929/1500 = **0.619 mW/cm^2**

The transmitter maximum output power in IDEN mode is 209 mW, in SMR mode - 83 mW, total 292 mW (24.65 dBm).
The maximum antenna gain is 10 dBi (7.85 dBd).

Maximum composite ERP is 24.65 dBm + 7.85 dBd - 2 dB = 30.5 dBm = 1122 mW,
maximum composite EIRP is 24.65 dBm + 10 dBi – 2 dB = 32.65 dBm = 1840.7 mW.

The power density $\mathbf{P\ (mW/cm^2) = P_T / 4\pi r^2}$, where
P_T is the maximum equivalent isotropically radiated power (EIRP).

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

$$\mathbf{P = 1840.7\ mW / 4\pi\ (20\ cm)^2 = 0.37\ mW/cm^2 < 0.567\ mW/cm^2}$$

General public cannot be exposed to dangerous RF level.