Environmental evaluation and exposure limit according to FCC CFR 47 part 1, §1.1307, §1.1310; part 2, §2.1091

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

P = 763/1500 = **0.509 mW/cm^2**
P = 851/1500 = **0.567 mW/cm^2**

The transmitter maximum output power in low band is 37.8 mW, in high band – 38.4 mW, total 76.2 mW (18.8 dBm).
The maximum antenna gain is 10 dBi (7.85 dBd).

Maximum composite ERP is 18.8 dBm + 7.85 dBd = 26.65 dBm = 0.462 W (<1.5 W).

Maximum composite EIRP is 18.8 dBm + 10 dBi = 28.8 dBm = 759 mW.

The power density **$P\ (mW/cm^2) = P_T / 4\pi r^2$**, 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:

$P = 759\ mW / 4\pi\ (20\ cm)^2 = 0.15\ mW/cm^2 < 0.509\ mW/cm^2$

General public cannot be exposed to dangerous RF level.