## 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<sup>2</sup> for 300 – 1500 MHz frequency range:

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

The power density P (mW/cm<sup>2</sup>) =  $P_T / 4\pi r^2$ 

P<sub>T</sub> is the transmitted power, which is equal to the peak transmitter output power in LoRa modulation mode in DTS mode of 20.29 dBm plus maximum antenna gain +1.5 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 20.29 \text{ dBm} + 1.5 \text{ dBi} = 21.79 \text{ dBm} = 151.01 \text{ mW}.$$

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

151.01 mW /  $4\pi$  (20 cm)<sup>2</sup> ≈ 0.03 mW/cm<sup>2</sup> < 0.6 mW/cm<sup>2</sup>

General public cannot be exposed to dangerous RF level.