## 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:

$$P = 912.75/1500 = 0.61 \text{ mW/cm}^2$$

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

 $P_{\mathsf{T}}$  is the transmitted power, which is equal to the peak transmitter output power 13.98 dBm plus maximum antenna gain (-1) dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 13.98 \text{ dBm} + (-1) \text{ dBi} = 12.98 \text{ dBm} = 19.9 \text{ mW}.$$

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

19.9 mW / 
$$4\pi$$
 (20 cm)<sup>2</sup> = 0.004 mW/cm<sup>2</sup> << 0.61 mW/cm<sup>2</sup>

General public cannot be exposed to dangerous RF level.