

**Exposure limit according to §15.247(i)**

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is  $1 \text{ mW/cm}^2$  for 1500 -100000 MHz frequency range.

The power density  $P \text{ (mW/cm}^2\text{)} = P_T / 4\pi r^2$ , where

$P_T$  is the transmitted power, which is equal to the peak transmitter output power plus maximum antenna gain. The maximum equivalent isotropically radiated power EIRP is

$$P_T = 20.99 \text{ dBm} + 9 \text{ dBi} = 29.99 \text{ dBm} = 997.7 \text{ mW}, \text{ where}$$

20.99 dBm is the EUT maximum output power (per port),  
9 dBi – antenna gain.

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

$$997.7 \text{ mW} / 4\pi (20 \text{ cm})^2 \approx 0.198 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.