## Exposure limit according to part 1, §1.1310

Limit for power density for general population/uncontrolled exposure is 1 $mW/cm^2$.

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

$P_T$ - the transmitted power, which is equal to the transmitter output power 21.2 dBm plus maximum antenna gain 11 dBi, the maximum output transmitter power is 32.2 dBm = 1659 mW.

$$1(mW/cm^2) = 1659\ mW / 4\pi r^2$$

The allowed distance "r", where RF exposure limits may not be exceeded, is 11.5 cm:

$$r = \sqrt{P_T / 4\pi} = \sqrt{1659 / 4 \times 3.14} \approx 11.5\ (cm).$$

**The public cannot be exposed to dangerous RF level.**

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