Transmitter, model Speed HPTx

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) = f/1500 (mW/cm^2) = 0.3 $mW/cm^2 = P_T / 4\pi r^2$, where

P_T - the transmitted power, which is equal to the transmitter output.
Maximal P_T = 17.78 dBm ≈ 60 mW .

$$0.3\ (mW/cm^2) = 60\ mW / 4\pi r^2$$

The minimum allowed distance “r”, where RF exposure limits may not be exceeded, is 4 cm.

$$r = sqrt (P_T / 4\pi) = sqrt(60/ 0.3 \times 4 \times 3.14) = 4\ (cm).$$

The public cannot be exposed to dangerous RF level.