## Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

Limit for power density for general population/uncontrolled exposure is 0.21 mW/cm<sup>2</sup>.

 $P_T$  is the maximum equivalent isotropically radiated power (EIRP). In our case  $P_T$  is  $\,$  –15.23 dBm = 0.03 mW.

$$0.21(mW/cm^2) = 0.03 \text{ mW} / 4\pi \text{ r}^2$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is 0.1 cm.

$$r = sqrt(P_T / (Px4\pi)) = sqrt(0.03 / (0.21 x 4 x 3.14)) = 0.1 (cm).$$

Hence, no safety hazard exists for human being.