## 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 0.6 mW/cm<sup>2</sup>.

 $P_T$  is the maximum equivalent isotropically radiated power (EIRP). In our case  $P_T$  is  $23.64\ dBm + 3\ dBi$  (antenna gain) =  $26.64\ dBm = 461.3\ mW$ .

$$0.6 \text{ (mW/cm}^2\text{)} = 461.3 \text{ mW} / 4\pi \text{ r}^2$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is 7.8 cm.

$$r = sqrt(P_T / (Px4\pi)) = sqrt(26.64 / (0.6 x 4 x 3.14)) = 7.8 (cm).$$

Hence, no safety hazard exists for human being.