Alvarion Ltd. FCC ID:LKT-MICRO-25

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

The transceiver is classified as fixed, the calculation was done to confirm a safe distance.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 1500 -100000 MHz frequency range.

The power density $P(mW/cm^2) = P_T / 4\pi r^2$, 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 = 37.27 dBm +18 dBi = 55.27 dBm = 336512 mW, where 37.27 dBm is the EUT maximum output power, 18 dBi – antenna gain.

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

 $r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 336512 / 12.56 \} = 164 cm << 2 m$.

General public cannot be exposed to dangerous RF level.