Airspan Networks Inc. FCC ID:PIDASMAX2500

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 $\,\mathrm{mW/cm^2}$ for 1500 -100000 MHz frequency range.

The power density P (mW/cm²) = P_T / 4π r², 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

$$P_T = 26.94 \text{ dBm} + 17.5 \text{ dBi} = 44.44 \text{ dBm} = 27797 \text{ mW}$$
, where

26.94 dBm is the EUT peak output power, 17.5 dBi – antenna gain.

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

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 27797 / 12.56 \} = 47 cm.$$

General public cannot be exposed to dangerous RF level.