Airspan Networks Inc. FCC ID:PIDLTE700F

## 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  $f/1500 \text{ mW/cm}^2$  for 300 - 1500 MHz frequency range:

 $P = 700/1500 = 0.47 \text{ mW/cm}^2$ 

The power density P (mW/cm<sup>2</sup>) = P<sub>T</sub> /  $4\pi$  r<sup>2</sup>, where

P<sub>T</sub> 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

 $P_T = 41.64 \text{ dBm} + 13.5 \text{ dBi} = 55.14 \text{ dBm} = 326588 \text{ mW}, \text{ where}$ 

41.64 dBm is the EUT maximum output power, 13.5 dBi – antenna gain.

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

 $r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 326588 / (0.47 x12.56) \} = 235 cm.$ 

A warning about a safe distance is contained in the user manual.