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:

 $P = 730.5/1500 = 0.49 \text{ mW/cm}^2$

The power density **P (mW/cm²) = P_T / 4\pi 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

 $P_T = 46.06 \text{ dBm} + 13.5 \text{ dBi} = 59.56 \text{ dBm} = 903649.5 \text{ mW}, \text{ where}$

46.06 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

 $r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 903649.5 / (0.49 x 12.56) \} = 383.2 cm \approx 384 cm.$

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