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

The calculation was completed to confirm the required safe distance for fixed device.

Based on the calculated r in 1) below, General public cannot be exposed to harmful RF level in the case of a fixed device is located at least 2 m safe distance from the persons.

Limit for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields for general population/uncontrolled exposure is 1.0 mW/cm² (**P**) for 1,500 - 100,000 MHz frequency range:

The power density **P** (mW/cm²) = **PT** / $4\pi r^2$, where PT is the maximum equivalent isotropically radiated power (EIRP).

1) The peak output power of 29.65 dBm with 17 dBi total antenna gain (please refer to Test A.1/A.2 of the test report 2477ERM.005)

PT = 29.65 dBm + 17.00 dBi = 46.65 dBm, which is equal to 46,238 mW

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

 $r = sqrt \{PT / (Px4\pi)\} = sqrt \{46238 / 12.56\} = 61 cm$