

MAXIMUM PERMISSIBLE EXPOSURE FOR SUBPART C 2.4 GHz BAND

Calculations

Power density at the specific separation:

S = EIRP / $(4R^2\pi)$ S = (0.61802) / $(4 * 1^2 * \pi)$ S = 0.04918 mW/cm² (at 1 cm) Limit = 1 mW/cm²

where

S = Maximum power density (mW/cm²) EIRP = Effective Isotropic Radiated Power (mW) - -2.09 dBm R = distance to the center of the radiation of the antenna (1 cm = limit for MPE)

The maximum permissible exposure (MPE) for the general population is 1 mW/cm².

The power density at 1 cm does not exceed the 1.0 mW/cm² limit. Therefore, the exposure condition is compliant with FCC rules.

The EIRP was based on a worst case PEAK value of 93.14 dBuV/m at 3 meters for the EUT.

93.14 dBuV/m @ 3 meters = -2.09 dBm EIRP.