Model: VT200



MAXIMUM PERMISSIBLE EXPOSURE FOR SUBPART C, SECTION 15.249

Calculations

Power density at the specific separation:

 $S = PG / (4R^2\pi)$ $S = EIRP / (4R^2\pi)$ $S = (1.97) / (4 * 20^2 * \pi)$ $S = 0.0003919 \text{ mW/cm}^2 \text{ (at 20 cm)}$ $Limit = 1 \text{ mW/cm}^2$

where

S = Maximum power density (mW/cm²) P = Power input to the antenna (mW) – G = Numeric power gain of the antenna R = distance to the center of the radiation of the antenna (20 cm = limit for MPE) EIRP = Equivalent Isotropic Radiated Power in mW EIRP (dBm) = dBuV/m + [20 Log (Test Distance in Meters)] - 104.77The worst case is 98.18 dBuV/m peak at 3 Meters = 1.97 mW EIRP

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

The power density at 20 cm does not exceed the 1 mW/cm² limit. Therefore, the exposure condition is compliant with FCC rules.