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Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, **d**, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= 14 dBi (Corner Reflector)

Peak Power (Watts) = 0.06166
Gain of Transmit Antenna = 14 dB_i = 25.119, numeric
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = EIRP/4A = 0.06166 (25.119) / 4\pi * 0.2 * 0.2 \\ &= 0.5049 / 0.503 = 3.079 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.3079 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm²