

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= +3 dBi

Peak Power (Watts) = 0.00257 (from Table 8 of Test Report)

Gain of Transmit Antenna = +3 dBi = 1.995, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG/4\pi d^2) = \text{EIRP}/4A = 0.00257 (1.995)/4\pi(0.2)^2 \\ &= 0.005127/0.503 = 0.010193 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00102 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm²