

Maximum Public Exposure to RF (MPE) CFR 1.1310

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 0.2 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Dipole Antenna= 0 dBi

Peak Power (Watts) = 0.0267 (from Table 5 of Test Report)
Gain of Transmit Antenna = 0 dBi = 1.0, numeric (from Table 4 of Test Report)
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG/ 4\pi d^2) = \text{EIRP}/4A = 0.0267 (1.0)/4*\pi*0.2*0.2 \\ &= 0.0267/0.503 = 0.05031 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00503 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 0.2 mW/cm²