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## 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 1 mW/cm$^2$ at a distance, d, of 20 cm from the EUT.

Therefore, for:

### Highest Gain Dipole Antenna= -1 dBi

Peak Power (Watts) = 0.0367  (from Figure 2 of Test Report)
Gain of Transmit Antenna = -1 dB$_i$ = 0.79, numeric (EUT uses an external Loop antenna)
d = Distance = 20 cm = 0.2 m

$\textbf{S}$ = (PG/ 4$\pi$d$^2$) = EIRP/4A = 0.0367(0.79)/4*$\pi$*0.2*0.2
= 0.029/0.5030 = 0.0577 W/m$^2$
= (W/m$^2$) (1m$^2$/W) (0.1 mW/cm$^2$)
= 0.00577 mW/cm$^2$

which is << less than 1.0 mW/cm$^2$