



Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power (eirp): 22.50 (dBm)**eirp**

Maximum peak output power (eirp): 177.827941 (mW)

Time Averaging: 100 (%)

Prediction distance: 20 (cm)

Prediction frequency: 902 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm²)

Power density at prediction frequency: **0.035378** (mW/cm²)

Margin of compliance: **-12.3** (dB)