



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 at antenna input terminal: 50.48 (dBm)

Maximum peak output power at antenna input terminal: 111686.3248 (mW)

Antenna gain(typical): 15 (dBi)

Maximum antenna gain: 31.6227766 (numeric)

Prediction distance: 672 (cm)

Prediction frequency: 937.5 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.625 (mW/cm²)

Power density at prediction frequency: 0.622374 (mW/cm²)

Maximum allowable antenna gain: 15.01828427 (dBi)

Margin of Compliance: 0.018284275