



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: 43.60 (dBm)

Maximum peak output power at antenna input terminal: 22908.67653 (mW)

Antenna gain(maximum): 6 (dBi)

Maximum antenna gain: 3.981071706 (numeric)

Time Averaging: 50 (%)

Prediction distance: 100 (cm)

Prediction frequency: 174 (MHz)

MPE limit for controlled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: 0.362878 (mW/cm²)

Margin of compliance: -4.4 (dB)