



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: 18.20 (dBm)

Maximum peak output power at antenna input terminal: 66.0693448 (mW)

Antenna gain(typical): 2.1 (dBi)

Maximum antenna gain: 1.621810097 (numeric)

Time Averaging: 100 (%)

Prediction distance: 25 (cm)

Prediction frequency: 927.9 (MHz)

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

Power density at prediction frequency: 0.013643 (mW/cm²)

Margin of compliance: -16.4 (dB)