



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: -3.00 (dBm)

Maximum peak output power at antenna input terminal: 0.501187234 (mW)

Antenna gain(typical): 9 (dBi)

Maximum antenna gain: 7.943282347 (numeric)

Time Averaging: 100 (%)

Prediction distance: 100 (cm)

Prediction frequency: 746 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.466666667 (mW/cm²)

Power density at prediction frequency: 0.000032 (mW/cm²)

Margin of compliance: -41.7 (dB)

This equates to 0.000316804 W/m²