



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: -10.5 (dBm) *

Maximum peak output power at antenna input terminal: 0.1 (mW)

Antenna gain(maximum): 2.5 (dBi) *

Maximum antenna gain: 1.78 (numeric)

Time Averaging: 100 (%) *

Prediction distance: 20 (cm) *

Prediction frequency: 2.4 (MHz) *

MPE limit for uncontrolled exposure at prediction frequency: 0.002 (mW/cm²)

Power density at prediction frequency: 0.00003 (mW/cm²)

This equates to: 0.0003 W/m²