

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 the antenna terminal: 17.20 (dBm)

Maximum peak output power at the antenna terminal: 52.48074602 (mW)

Antenna gain(typical): 2.45 (dBi)

Maximum antenna gain: 1.757923614 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 2440 (MHz)

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

Power density at prediction frequency: **0.018354** (mW/cm²)

Maximum allowable antenna gain: **19.81269855** (dBi)