



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: 28.80 (dBm)

Maximum peak output power at antenna input terminal: 758.5776 (mW)

Antenna gain(typical): 5 (dBi)

Maximum antenna gain: 3.162278 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 860 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.533333 (mW/cm²)

Power density at prediction frequency: **0.477233** (mW/cm²)

Maximum allowable antenna gain: **5.482686** (dBi)