



**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: 43.77 (dBm)

Maximum peak output power at antenna input terminal: 23823.19469 (mW)

Antenna gain(typical): 8 (dBi)

Maximum antenna gain: 6.309573445 (numeric)

Prediction distance: 210 (cm)

Prediction frequency: 407 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.271333333 (mW/cm<sup>2</sup>)

Power density at prediction frequency: **0.271239** (mW/cm<sup>2</sup>)

Maximum allowable antenna gain: **8.001516037** (dBi)

Margin of Compliance: 0.001516037