

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:	<u>9.64</u>	(dBm)
Maximum peak output power at the antenna terminal:	<u>9.204495718</u>	(mW)
Antenna gain(typical):	<u>-3.76</u>	(dBi)
Maximum antenna gain:	<u>0.420726628</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>2480</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm ²)
Power density at prediction frequency:	0.000770	(mW/cm ²)
Maximum allowable antenna gain:	27.37269855	(dBi)