



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:	<u>18.68</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>73.8</u>	(mW)
Antenna gain(typical):	<u>2</u>	(dBi)
Maximum antenna gain:	<u>1.58</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>2400</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm ²)
Power density at prediction frequency:	<u>0.02327</u>	(mW/cm ²)
Maximum allowable antenna gain:	<u>18.3</u>	(dBi)
Margin of Compliance:	<u>16.33</u>	