



### 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>30.80</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>1202.264435</u>	(mW)
Antenna gain(typical):	<u>9</u>	(dBi)
Maximum antenna gain:	<u>7.943282347</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>30</u>	(cm)
Prediction frequency:	<u>4970</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<b>0.844399</b>	(mW/cm <sup>2</sup> )
Margin of compliance:	<b>-0.7</b>	(dB)