



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>20.00</u>	(dBm)
Source-Based Time Averaging	<u>100.00</u>	(%)
Corrected max peak output power:	<u>20.00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>100</u>	(mW)
Antenna gain(typical):	<u>8</u>	(dBi)
Maximum antenna gain:	<u>6.309573</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>470</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.306667</u>	(mW/cm ²)
Power density at prediction frequency:	0.125525	(mW/cm ²)

Time Avg. = 39%

This plot is taken with the transmitter in normal TX mode and represents max. rf on