



Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Down Link MPE

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>34.00</u>	(dBm)	<i>This is 34.00 dBm</i>
Maximum peak output power at antenna input terminal:	<u>2511.886432</u>	(mW)	
Antenna gain(typical):	<u>5</u>	(dBi)	
Maximum antenna gain:	<u>3.16227766</u>	(numeric)	
Prediction distance:	<u>35</u>	(cm)	
Prediction frequency:	<u>851</u>	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.567</u>	(mW/cm ²)	
Power density at prediction frequency:	<u>0.516005</u>	(mW/cm ²)	
Maximum allowable antenna gain:	<u>5.411842538</u>	(dBi)	
Margin of Compliance:	<u>0.411842538</u>		