



**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>31,00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>1258,925412</u>	(mW)
Antenna gain(maximum):	<u>16</u>	(dBi)
Maximum antenna gain:	<u>39,81071706</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>100</u>	(cm)
Prediction frequency:	<u>862</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0,575</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<b>0,398832</b>	(mW/cm <sup>2</sup> )
Margin of compliance:	<b>-1,6</b>	(dB)
This equates to:	<b>3,988321282</b>	<b>W/m<sup>2</sup></b>



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Maximum peak output power at antenna input terminal:	<u>31,00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>1258,925412</u>	(mW)
Antenna gain(maximum):	<u>20</u>	(dBi)
Maximum antenna gain:	<u>100</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>100</u>	(cm)
Prediction frequency:	<u>2690</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1,000</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<b>1,001821</b>	(mW/cm <sup>2</sup> )
Margin of compliance:	<b>0,0</b>	(dB)
This equates to:	<b>10,01821011</b>	<b>W/m<sup>2</sup></b>