



**MPE Calculation for FCC Uncontrolled Environment**

Formula 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  
 Source Based Time Averaged Duty Cycle is 100% in calculation below

Maximum peak output power at antenna input terminal:	<u>15.90</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>0.039</u>	(W)
Maximum antenna gain:	<u>2.51</u>	(dBi)
Maximum antenna gain:	<u>1.782</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>1925</u>	(MHz)
Time Averaged Duty Cycle	<u>100</u>	%
MPE limit for uncontrolled exposure at prediction frequency:	<u>10.00</u>	(W/m <sup>2</sup> )
Power density at prediction frequency:	<u>0.0138</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<u>0.138</u>	(W/m <sup>2</sup> )
Maximum allowable antenna gain:	<u>21.11</u>	(dBi)
Margin of Compliance:	<u>18.60</u>	(dB)