



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
Valid for frequencies from 100 to 300.000 MHz

Maximum peak output power at antenna input terminal:	<u>19.70</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>0.093</u> (W)
Antenna gain(typical):	<u>0.60</u> (dBi)
Maximum antenna gain:	<u>1.148</u> (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	<u>1925</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>10.00</u> (W/m^2)
MPE limit for controlled exposure at prediction frequency:	<u>50.00</u> (W/m^2)

Uncontrolled Exposure:

Power density at prediction frequency:	0.213172 (W/m^2)
Maximum allowable antenna gain:	17.31 (dBi)
Margin of Compliance:	16.71 (dB)

Controlled Exposure: