



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

	800MHz	1900MHz	
Maximum peak output power at antenna input terminal:	37.00	37.00	(dBm)
Maximum peak output power at antenna input terminal:	5011.872	5011.8723	(mW)
Antenna gain(typical):	0	0	(dBi)
Maximum antenna gain:	1	1	(numeric)
Prediction distance:	35	35	(cm)
Prediction frequency:	850	1900	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.533333	1	(mW/cm^2)

Power density at prediction frequency: 0.325577 0.32558 (mW/cm^2)

Multiple transmitter Calculation: (Sum of all fractional Contributions)

$$0.61046 + 0.32558 = 0.93603 < 1.0$$