ONE WORLD ○ OUR APPROVAL

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

EIRP	23.47	dBm

Single Antenna gain (typical):	4.4	dBi
Number of Antennae:	1	
Total Antenna gain (typical):	4.4	dBi
	2.754228703	(numeric)
Prediction distance:	20	cm
Prediction frequency:	2402	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm^2
Power density at prediction frequency:	**0.044231**	**mW/cm^2**
	0.442313	W/m^2
Tx On time:	1.000000	ms
Tx period time:	1.000000	ms
Average Factor:	100.000000	%
Average Power density at prediction frequency:	0.442313	W/m^2
Maximum allowable antenna gain:	17.94269855	dBi
Margin of Compliance:	**13.54269855**	**dB**