

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 device output terminal:	40.07	dBm
Cable and Jumper loss:	0.0	dB
Maximum peak output power at antenna input terminal:	40.07	dBm
	10162.48693	mW
Single Antenna gain (typical):	24.74	dBi (max for complianc
Number of Antennae:	1	
Total Antenna gain (typical):	24.74	dBi
	297.8516429	(numeric)
Prediction distance:	750	cm
Prediction frequency:	2112.5	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm ²
Power density at prediction frequency:	0.428221	mW/cm²
	4.282207	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:	4.282207	W/m ²
Maximum allowable antenna gain:	28.42332391	dBi
Margin of Compliance:	3.683323908	dB