Prediction of MPE limit at a given distance

Nemko

$$S = \frac{PG}{4\pi R^2}$$

S = power density
P = power input to the antenna
G = antenna gain
R = distance

Conducted output power:	**40.00**	(dBm)
	10000	(mW)
	10	(W)
Antenna gain:	**5**	(dBi)
Maximum antenna gain:	**3.162**	(numeric)
EIRP	**31.62**	(W)
Distance:	**72**	(cm)
Duty Cycle(SourceBased):	**25**	(%)
Frequency:	**817**	(MHz)
MPE Limit:	**0.545**	(mW/cm^2)
Power density:	**0.121**	(mW/cm^2)
	1.21	(W/m^2)
Margin	**6.5**	(dB)