Prediction of MPE limit at a given distance

N Nem

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

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

Conducted output power:	**20.00**	(dBm)
	100	(mW)
	0.10	(W)
Antenna gain:	**1.5**	(dBi)
Maximum antenna gain:	**1.4**	(numeric)
EIRP	**0.14**	(W)
Distance:	**20**	(cm)
Duty Cycle:	**100**	(%)
Frequency:	**2400**	(MHz)
MPE Limit:	**1**	(mW/cm^2)
Power density:	**0.028**	(mW/cm^2)
	0.28	(W/m^2)
Margin	**15.5**	(dB)