

Prediction of MPE limit at a given distance

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



S = power density

P = power input to the antenna

G = antenna gain

R = distance

EIRP	36.00	(dBm)
EIRP	3.981	(W)
ERP	2.432	(W)
Distance:	20	(cm)
Duty Cycle:	100	(%)
Frequency:	5800	(MHz)
MPE Limit:	1	(mW/cm^2)
Power density:	0.792	(mW/cm^2)
Power density:	7.92	(W/m^2)
Margin	1.0	(dB)