

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	43.00	(dBm)
EIRP	19.953	(W)
ERP	12.191	(W)
Distance:	120	(cm)
Duty Cycle:	100	(%)
Frequency:	4950	(MHz)
MPE Limit:	1	(mW/cm ²)
Power density:	0.110	(mW/cm ²)
Power density:	1.10	(W/m ²)
Margin	9.6	(dB)