

### Prediction of MPE limit at a given distance

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

S = power density

P = power

G = antenna gain

R = distance

Conducted output power:	<b>27.11</b>	(dBm)
Tune up tolerance	<b>0.25</b>	(dB)
Number of carriers	<b>2</b>	(N)
	<b>1089</b>	(mW)
	<b>1</b>	(W)
Antenna gain:	<b>13.5</b>	(dBi)
Maximum antenna gain:	<b>22.4</b>	(numeric)
EIRP	<b>24.4</b>	(W)
ERP	<b>14.9</b>	(W)
Distance:	<b>50</b>	(cm)
Duty Cycle:	<b>100</b>	(%)
Frequency:	<b>3675</b>	(MHz)
MPE Limit:	<b>1.0</b>	(mW/cm <sup>2</sup> )
Power density:	<b>0.78</b>	(mW/cm <sup>2</sup> )
	<b>7.76</b>	(W/m <sup>2</sup> )
Margin	<b>1.10</b>	(dB)