Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: \overline{S} = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at device output terminal:	29.97	(dBm)
Cable and Jumper loss	1.2	(dB)
Maximum peak output power at antenna input terminal:	28.82	(dBm)
Maximum peak output power at antenna input terminal:	762.07901	(mW)
Single Antenna gain(typical):	7.15	(dBi)
Number of Antennae	2	
Total Antenna gain(typical):	4.139700043	(dBi)
Maximum antenna gain:	2.594000195	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	907	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.604666667	(mW/cm ²)
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Power density at prediction frequency:	0.393278	(mW/cm ²)
Power density at prediction frequency:	0.393278 3.932784	(mW/cm²) (W/m²)
Power density at prediction frequency: Tx On time:	0.393278 3.932784 100.000000	(mW/cm²) (W/m²) (ms)
Power density at prediction frequency: Tx On time: Tx period time:	0.393278 3.932784 100.000000 100.000000	(mW/cm²) (W/m²) (ms) (ms)
Power density at prediction frequency: Tx On time: Tx period time: Average Factor:	0.393278 3.932784 100.000000 100.000000 100.000000	(mW/cm²) (W/m²) (ms) (ms)
Power density at prediction frequency: Tx On time: Tx period time: Average Factor: Average Power density at prediction frequency:	0.393278 3.932784 100.000000 100.000000 100.000000 3.932784	(mW/cm ²) (W/m ²) (ms) (ms) (W/m ²)
Power density at prediction frequency: Tx On time: Tx period time: Average Factor: Average Power density at prediction frequency:	0.393278 3.932784 100.000000 100.000000 100.000000 3.932784 0.393278	(mW/cm ²) (W/m ²) (ms) (ms) (W/m ²) (mW/cm ²)
Power density at prediction frequency: Tx On time: Tx period time: Average Factor: Average Power density at prediction frequency: Maximum allowable antenna gain:	0.393278 3.932784 100.00000 100.00000 100.00000 3.932784 0.393278 6.007858834	(mW/cm ²) (W/m ²) (ms) (ms) (W/m ²) (mW/cm ²) (dBi)
Power density at prediction frequency: Tx On time: Tx period time: Average Factor: Average Power density at prediction frequency: Maximum allowable antenna gain:	0.393278 3.932784 100.000000 100.000000 100.000000 3.932784 0.393278 6.007858834	(mW/cm ²) (W/m ²) (ms) (ms) (W/m ²) (mW/cm ²) (dBi)