Prediction of MPE limit at a given distance

BelAir Networks,BA200, ARM

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

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

where: 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 antenna input terminal:	27.00	(dBm)
Maximum peak output power at antenna input terminal:	501.1872336	(mW)
Antenna gain(typical):	8.5	(dBi)
Maximum antenna gain:	7.079457844	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2400-2483.5	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.705879	(mW/cm^2)
Maximum allowable antenna gain:	10.01269855	(dBi)
Margin of Compliance:	1.512698554	(dB)