Prediction of MPE limit at a given distance

Verint CM9S1100

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:	16.88	(dBm)
Maximum peak output power at antenna input terminal:	48.75284901	(mW)
Antenna gain(typical):	19	(dBi)
Maximum antenna gain:	79.43282347	(numeric)
Prediction distance:	30	(cm)
Prediction frequency:	5745	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.342411	(mW/cm^2)
	3.424109	(W/m^2)
Maximum allowable antenna gain:	23.65452373	(dBi)
Margin of Compliance:	4.654523735	dB