Prediction of MPE limit at a given distance

MW-CBDA-SMR-800-900-16W80A Indoor Mobile Antenna

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:	31.00	(dBm)
Maximum peak output power at antenna input terminal:	1258.925412	(mW)
Antenna gain(typical):	2	(dBi)
Maximum antenna gain:	1.584893192	(numeric)
Prediction distance:	50	(cm)
Prediction frequency:	851	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.567333333	(mW/cm^2)
Power density at prediction frequency:	0.063511	(mW/cm^2)
Maximum allowable antenna gain:	11.50988174	(dBi)
Margin of Compliance:	9.509881737	