

Prediction of MPE limit at a given distance Uplink

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:	24.00	(dBm)
Maximum peak output power at antenna input terminal:	251.1886432	(mW)
Antenna gain(typical):	10	(dBi)
Maximum antenna gain:	10	(numeric)
Prediction distance:	50	(cm)
Prediction frequency:	896-901	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.6	(mW/cm^2)
Power density at prediction frequency:	0.079956	(mW/cm^2)
Maximum allowable antenna gain:	18.75301123	(dBi)
Margin of Compliance at 50cm = 8.7dl	В	