Prediction of MPE limit at a given distance

VTech Phoenix i5871, Base

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:	29.50	(dBm)
Maximum peak output power at antenna input terminal:	891.2509381	(mW)
Antenna gain(typical):	2.2	(dBi)
Maximum antenna gain:	1.659586907	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5840	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Power density at prediction frequency:	0.294259	(mW/cm^2)
Maximum allowable antenna gain:	7.512698554	(dBi)
Margin of Compliance:	5.312698554	