Prediction of MPE limit at a given distance

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 isotropic radiator
R = distance to the center of radiation of the antenna

PWR in dBm →	Maximum peak output power at antenna input terminal:	9.1	dBm
	Maximum peak output power at antenna input terminal:	8.1	mW
Ant. gain in dBi →	Antenna gain(maximum):	36	dBi
	Maximum antenna gain:	3981.1	numeric
Use the duty cycle from test report or 100% →	Time Averaging:	100	%
Separation distance from antenna to user in cm. →	Prediction distance:	55	cm
Freq. in MHz →	Prediction frequency:	62500	MHz
	FCC MPE limit for uncontrolled exposure at prediction frequency:	1.00	mW/cm^2
	IC MPE limit for uncontrolled exposure at prediction frequency:	10.00	W/m^2
	Power density at prediction frequency:	0.85	mW/cm^2
	This equates to:	8.51	W/m^2

Prediction of MPE limit at a given distance

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 isotropic radiator
R = distance to the center of radiation of the antenna

PWR in dBm →	Maximum peak output power at antenna input terminal:	9.1	dBm
	Maximum peak output power at antenna input terminal:	8.1	mW
Ant. gain in dBi →	Antenna gain(maximum):	42	dBi
	Maximum antenna gain:	15848.9	numeric
Use the duty cycle from test report or 100% →	Time Averaging:	100	%
Separation distance from antenna to user in cm. →	Prediction distance:	110	cm
Freq. in MHz →	Prediction frequency:	62500	MHz
	FCC MPE limit for uncontrolled exposure at prediction frequency:	1.00	mW/cm^2
	IC MPE limit for uncontrolled exposure at prediction frequency:	10.00	W/m^2
	Power density at prediction frequency:	0.85	mW/cm^2
	This equates to:	8.47	W/m^2

Prediction of MPE limit at a given distance

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 isotropic radiator
R = distance to the center of radiation of the antenna

PWR in dBm →	Maximum peak output power at antenna input terminal:	9.1	dBm
	Maximum peak output power at antenna input terminal:	8.1	mW
Ant. gain in dBi →	Antenna gain(maximum):	47	dBi
	Maximum antenna gain:	50118.7	numeric
Use the duty cycle from test report or 100% →	Time Averaging:	100	%
Separation distance from antenna to user in cm. →	Prediction distance:	200	cm
Freq. in MHz →	Prediction frequency:	62500	MHz
	FCC MPE limit for uncontrolled exposure at prediction frequency:	1.00	mW/cm^2
	IC MPE limit for uncontrolled exposure at prediction frequency:	10.00	W/m^2
	Power density at prediction frequency:	0.81	mW/cm^2
	This equates to:	8.10	W/m^2