



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 an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power ERP:	<u>1780.00</u>	(mw)
Maximum peak output power EIRP = ERP *1.64:	<u>2919.2</u>	(mW)
GSM Duty cycle: 1:8.3	<u>0.120481928</u>	
Antenna gain(typical):	<u>0</u>	(dBi)
Maximum antenna gain:	<u>1</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>824.2</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.549466667</u>	(mW/cm^2)
Power density at prediction frequency:	0.069971	(mW/cm^2)
	0.699706	(W/m^2)
Maximum allowable antenna gain:	-0.240526439	(dBi)
Margin of Compliance:	8.950254485	dB



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R = distance to the center of radiation of the antenna

Maximum peak output power EIRP :	<u>472</u>	(mW)
Antenna gain(typical):	<u>0</u>	(dBi)
Maximum antenna gain:	<u>1</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>1900</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm^2)
Power density at prediction frequency:	0.093901	(mW/cm^2)
	0.939014	(W/m^2)
Maximum allowable antenna gain:	10.27327857	(dBi)
Margin of Compliance:	10.27327857	dB