

Prediction of MPE limit at a given distance

Exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310
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 radi

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<u>21.96</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>157.0362804</u>	(mW)
Antenna gain(typical):	<u>17</u>	(dBi)
Maximum antenna gain:	<u>50.11872336</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>30</u>	(cm)
Prediction frequency:	<u>3650</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm ²)
Power density at prediction frequency:	0.695901	(mW/cm ²)
Margin of compliance:	-1.6	(dB)
This equates to	6.959012659	W/m² PASS
For information This equates to	51.22057958	V/m

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