



**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

	<u>131.8</u> mW
Maximum peak output power --Conducted	<u>21.2</u> dBm
	<u>0.132</u> (W)
Antenna gain(typical):	<u>2.14</u> (dBi)
Maximum antenna gain:	<u>1.64</u> (numeric)
Prediction distance:	<u>20.00</u> (cm)
Prediction frequency:	<u>909.44</u> (MHz)
Limit from table below:	<u>0.6063</u> (mW/cm <sup>2</sup> )
Power density at prediction frequency:	<u>0.0429</u> (mW/cm <sup>2</sup> )

EUT complies

FCC/LSGAC Local Official's Guide to RF

A LOCAL GOVERNMENT OFFICIAL'S GUIDE TO TRANSMITTING ANTENNA RF

EMISSION SAFETY: RULES, PROCEDURES, AND PRACTICAL GUIDANCE

**(B) Limits for General Population/Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

\*Plane-wave equivalent power density

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.