

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

86 dBuV/m From test report's measured radiated power.

3 m

2.0E-02 V =10^{((73-120/20)}

0.000119432 W

 $= ((V \times 3m)^2)/30$

Maximum peak output powerRadiated:	0.0001194	(W)
Antenna gain(typical):	1.70	(dBi)
Maximum antenna gain:	1.48	(numeric)
Prediction distance:	20.00	(cm)
Prediction frequency:	2433.00	(MHz)
Limit from table below:	1	(mW/cm^2)
Power density at prediction frequency:	0.00003514	(mW/cm^2)

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	Electric Field	Magnetic Field Strength	Power Density	Averaging Time
Range	Strength (E)	(H)	(S)	$ E ^{2}$, $ H ^{2}$ or S
(MHz)	(V/m)	(A/m)	(mW/cm^2)	(minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	$(180/f^2)^*$	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.