

POWER DENSITY (RADIATED)

§2.1091

Measurement Procedure:

1. The EUT was set to transmit mode and allowed sufficient time to stabilize. The EUT was operated at full power.
2. The EUT was investigated in all angles to find the highest radiating angle, with the receive antenna at vertical and horizontal polarization. The worst case was found to be with the receive antenna horizontal and the EUT at 35 deg above the horizon.
3. The receive antenna was moved as close to the EUT antenna until 1.00mW/cm² was achieved.

Results for 1660.5(MHz)

Far field region = 62.8cm
EIRP= 47dBm

$$S(\text{far field}) = PG/4\pi R^2$$

$$50/4\pi 0.628^2 = 10.0/10 = 1.00\text{mW/cm}^2$$

Milpitas, CA November 17, 2005

LIMITS

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(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 ²)	Averaging Time E ² , H ² or S (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 can not exercise control over their exposure.

