



BEST VERIFICATION LLC

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1. Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (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
300-1,500			f/1500	<30
1,500-100,000			1	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

formula: Pd = (Pout*G)/(4*Pi*R^2)

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1415926

R = distance between observation point and center of the radiator in cm

2. CALCULATION

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Antenna gain (dBi):		-0.68				
Frequency (MHz)	Pout (dBm)	Pout (mW)	Antenna Gain (Numeric)	Separation Distance (cm)	Power Density (mW/cm ²)	Result
2402	2.37	1.73	0.86	20	0.0003	PASS
2440	2.88	1.94	0.86	20	0.0003	PASS
2480	2.4	1.74	0.86	20	0.0003	PASS