FCC ID: QQIET100

Maximum exposure limits from CFR 47, FCC Part 1.1310:

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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			1.0	30

The power density is calculated as shown below:

$$S = (P \times G)/(4 \times \pi \times d^2) - \text{used to calculate exposure at 20 cm}$$

$$d = \sqrt{(S/(P \times G) \times 4 \times \pi)} - \text{used to calculate minimum distance to meet limits}$$

S= power density
P = transmitter conducted power (in mW)
G = antenna numeric gain
d = distance to radiation center

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Frequency	Antenna Gain	Output power	Output Power +10% to account for tolerance	Power Density	Limit	Distance
MHz	numeric	mW		mW/cm^2	mW/cm^2	
914.88	1	1	1.1	0.0002189	0.0610	20

Table 2 – Power Density Calculations

Antenna gain set to 1 because all power measurements were performed as radiated/EIRP.

Note: This equipment is not intended to be operated by hand. It is expected that a 20cm separation will be maintained at all times.