NCEE Labs
4740 Discovery Drive
Lincoln, NE 68521
402-323-6233

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 x G)/(4 x π x d^2) – used to calculate exposure at 20 cm

d = √(S/(P x G) x 4 X π) – 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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Table 2 – Power Density Calculations

Frequency	Antenna Gain	Output power	Output Power +10% for tolerance	Power Density	Limit	Distance
MHz	numerical	mW	mW	mW/cm^2	mW/cm^2	
902.3	1	11.56	12.716	0.0025311	0.0602	20
908.6	1	11.17	12.287	0.0024457	0.0606	20
914.9	1	13.52	14.872	0.0029602	0.0610	20

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

The EIRP values were calculated from the maximized field strength from all possible angles of the EUT.