

DMP	Model:	1184	Test Number:	110914C		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm ²					
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	915	Maximum (Watts)	0.0004		Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	-3.83		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	0.316		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	0.521			Radiated (EIRP) dBm	-2.829
				EIRP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	-4.999
Occupational Limit	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW) </div>					
3.05000 mW/cm ²						
30.50000 W/m ²						
General Public Limit						
0.61000 mW/cm ²						
6.10000 W/m ²						
FCC radio frequency radiation exposure limits per 1.1310						
	Frequency (MHz)	Occupational Limit	Public Limit			
	300-1,500	f/300	f/1500			
	1,500-10,000	5	1			
FCC radio frequency radiation exposure limits per 1.1310						
	Frequency (MHz)	Occupational Limit @ Tx Freq	Public Limit @ Tx Freq (mW/cm ²)			
	300-1,500 (mW/cm2)	3.05	0.61			
	300-1,500 (W/m2)	30.5	6.1			
	1,500-10,000 (mW/cm2)	5	1			
	1,500-10,000 (W/m2)	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
0.521	0.00000	0.00004	100.00	1.00	39.37	0.08
0.521	0.00002	0.00017	50.00	0.50	19.69	0.04
0.521	0.00003	0.00026	40.00	0.40	15.75	0.03
0.521	0.00005	0.00046	30.00	0.30	11.81	0.03
0.521	0.00010	0.00104	20.00	0.20	7.87	0.02
0.521	0.00013	0.00128	18.00	0.18	7.09	0.02
0.521	0.00018	0.00184	15.00	0.15	5.91	0.01
0.521	0.00021	0.00212	14.00	0.14	5.51	0.01
0.521	0.00025	0.00245	13.00	0.13	5.12	0.01
0.521	0.00029	0.00288	12.00	0.12	4.72	0.01
0.521	0.00041	0.00415	10.00	0.10	3.94	0.01
0.521	0.00051	0.00512	9.00	0.09	3.54	0.01
0.521	0.00065	0.00648	8.00	0.08	3.15	0.01
0.521	0.00085	0.00847	7.00	0.07	2.76	0.01
0.521	0.00115	0.01152	6.00	0.06	2.36	0.01
0.521	0.00166	0.01659	5.00	0.05	1.97	0.00
0.521	0.01037	0.10372	2.00	0.02	0.79	0.00
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm/ inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm/ inches)
	Frequency (MHz)					
	300-1,500		N/A	N/A	N/A	N/A
	1,500-10,000		N/A	N/A	N/A	N/A