MPE Calculator	DMP		Test Number	100223	
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	2.17
Tx Frequency (MHz)	915	(Watts)	0.000585		-1.17
				Antenna minus cable (dBi)	1.00
Cable Loss (dB)	0.0	(dBm)	-2.33		
Calculated ERP (mw)		0.447		Radiated (EIRP) dBm	-1.329
Calculated EIRP (mw)		0.736			
				Radiated (ERP) dBm	-3.499
Occupational Limit					
3.05000	**mW/cm^2**				
General Public Limit					
0.61000	**mW/cm^2**				

Power density (S) = EIRP
------- = mW/cm^2
4 p r^2
[r (cm), EIRP (mW)]

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 (mW/cm^2)	Public Limit @ Tx Freq (mW/cm^2)
300-1,500	3.05	0.61
1,500-10,000	5	1

EIRP	Distance	Distance	S
milliwatts	cm	inches	mW/cm^2
0.736	70.00	27.56	0.00001
0.736	60.00	23.62	0.00002
0.736	50.00	19.69	0.00002
0.736	40.00	15.75	0.00004
0.736	30.00	11.81	0.00007
0.736	20.00	7.87	0.00015
0.736	10.00	3.94	0.00059
0.736	9.00	3.54	0.00072
0.736	8.00	3.15	0.00092
0.736	7.00	2.76	0.00120
0.736	6.00	2.36	0.00163
0.736	5.00	1.97	0.00234
0.736	4.00	1.57	0.00366
0.736	3.00	1.18	0.00651
0.736	1.00	0.39	0.05860

Frequency (MHz)	Occupational Limit minimum Distance (cm)	Public Limit minimum distance (cm)
300-1,500	1 cm	1 cm
1,500-10,000	N/A	N/A