

Wilibox Deliberant Group		Model: WMR400		Test Number: 080623	
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)	32.5
		Output Power		dBd + 2.17 = dBi	dBi to dBd 2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.3800	Antenna Gain (dBd)	30.33
Cable Loss (dB)	0.0	(dBm)	25.80	Antenna minus cable (dBi)	32.50
Calculated ERP (mw)		409999.754		EIRP = Po(dBM) + Gain (dB)	
Calculated EIRP (mw)		675746.176		Radiated (EIRP) dBm 58.298	
				ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm 56.128	
Occupational Limit		<div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm^2</div> <div>4 π r^2</div> <div>r (cm) EIRP (mW)</div>			
5.00000	mW/cm^2				
General Public Limit					
1.00000	mW/cm^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 (mW/cm^2)	Public Limit @ Tx Freq (mW/cm^2)		
300-1,500		19.28333333	3.856666667		
1,500-10,000		5	1		
EIRP		Distance	Distance	S	Distance
milliwatts		cm	inches	mW/cm^2	Feet
675746.176		400.00	157.48	0.33609	13.12
675746.176		300.00	118.11	0.59749	9.84
675746.176		235.00	92.52	0.97373	7.71
675746.176		200.00	78.74	1.34435	6.56
675746.176		150.00	59.06	2.38996	4.92
675746.176		140.00	55.12	2.74358	4.59
675746.176		130.00	51.18	3.18190	4.27
675746.176		120.00	47.24	3.73432	3.94
675746.176		110.00	43.31	4.44415	3.61
675746.176		105.00	41.34	4.87748	3.44
675746.176		104.00	40.94	4.97172	3.41
675746.176		103.00	40.55	5.06873	3.38
675746.176		100.00	39.37	5.37742	3.28
675746.176		50.00	19.69	21.50967	1.64
675746.176		20.00	7.87	134.43543	0.66
675746.176		15.00	5.91	238.99632	0.49
675746.176		11.00	4.33	444.41465	0.36
FCC radio frequency radiation exposure limits per 1.1310					
Frequency (MHz)		Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)		
300-1,500		N/A	N/A		
1,500-10,000		104 / 40.94	235 / 92.5		