

Netkrom		Model: XR2	Test Number:	090814		
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)	24	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2442	Maximum (Watts)	0.9770	Antenna Gain (dBd)	21.83	
Cable Loss (dB)	0.0	(dBm)	29.90	Antenna minus cable (dBi)	24.00	
	Calculated ERP (mw)	148899.954		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	245411.304		Radiated (EIRP) dBm	53.899	
				ERP = EIRP - 2.17 dB		
				Radiated (ERP) dBm	51.729	
	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	8.14	1.628			
	1,500-10,000	5	1			
EIRP Distance S Distance						
	milliwatts	cm	inches	mW/cm^2	Feet	
	245411.304	1000.00	393.70	0.01953	32.81	
	245411.304	900.00	354.33	0.02411	29.53	
	245411.304	800.00	314.96	0.03051	26.25	
	245411.304	700.00	275.59	0.03986	22.97	
	245411.304	600.00	236.22	0.05425	19.69	
	245411.304	500.00	196.85	0.07812	16.40	
	245411.304	400.00	157.48	0.12206	13.12	
	245411.304	300.00	118.11	0.21699	9.84	
	245411.304	200.00	78.74	0.48823	6.56	
	245411.304	150.00	59.06	0.86796	4.92	
	245411.304	140.00	55.12	0.99639	4.59	
	245411.304	100.00	39.37	1.95292	3.28	
	245411.304	80.00	31.50	3.05144	2.62	
	245411.304	63.00	24.80	4.92044	2.07	
	245411.304	60.00	23.62	5.42478	1.97	
Occupational Limit minimum Distance Public Limit minimum distance						
	Frequency (MHz)	cm / inches	cm / inches			
	300-1,500	N/A	N/A			
	1,500-10,000	63 / 24.8	140 / 55			