

Garmin	Model: A03363		Test Number: 180829				
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	
					dBi to dBd	2.2	
Tx Frequency (MHz)	2437	Peak Power (Watts)	0.0246		Antenna Gain (dBd)	-1.17	
Cable Loss (dB)	0.0	(dBm)	13.9		Antenna minus cable (dBi)	1.00	
	Calculated ERP (mw)	18.793			EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	30.974			Radiated (EIRP) dBm	14.910	
					ERP = EIRP - 2.17 dB		
	Occupational Limit	Power density (S) EIRP ----- = mW/cm ² 4 π r ² r (cm) EIRP (mW)			Radiated (ERP) dBm	12.740	
	5 mW/cm ²						
	50.00000 W/m ²						
	General Public Limit						
	1 mW/cm ²						
	10.00000 W/m ²						
FCC radio frequency radiation exposure limits per 1.1310							
	Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)				
	300-1,500	f/300	f/1500				
	1,500-10,000	5	1				
Canada Occupational Limit							
IC radio frequency radiation exposure limits per RSS-102							
	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)				
	100-6,000	0.6455/ ^{0.5}					
	6,000-15,000	50					
Canada General Public Limit							
	48-300		1.291				
	300-6,000		0.02619/ ^{0.6834}				
	6,000-15,000	50	10				
EIRP	S	S	Distance	Distance	Distance	Distance	
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet	
30.974	0.00025	0.00246	100.00	1.00	39.37	3.28	
30.974	0.00030	0.00304	90.00	0.90	35.43	2.95	
30.974	0.00039	0.00385	80.00	0.80	31.50	2.62	
30.974	0.00050	0.00503	70.00	0.70	27.56	2.30	
30.974	0.00068	0.00685	60.00	0.60	23.62	1.97	
30.974	0.00099	0.00986	50.00	0.50	19.69	1.64	
30.974	0.00154	0.01541	40.00	0.40	15.75	1.31	
30.974	0.00274	0.02739	30.00	0.30	11.81	0.98	
30.974	0.00394	0.03944	25.00	0.25	9.84	0.82	
30.974	0.00616	0.06162	20.00	0.20	7.87	0.66	
30.974	0.00683	0.06828	19.00	0.190	7.48	0.62	
30.974	0.00761	0.07608	18.00	0.180	7.09	0.59	
30.974	0.00853	0.08529	17.00	0.170	6.69	0.56	
30.974	0.00963	0.09628	16.00	0.160	6.30	0.52	
30.974	0.01095	0.10955	15.00	0.150	5.91	0.49	
30.974	0.01258	0.12576	14.00	0.140	5.51	0.46	
30.974	0.02465	0.24648	10.00	0.100	3.94	0.33	
		Frequency (MHz)	Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)	
		300-1,500	N/A	N/A	0.20	20 / 7.8	
		1,500-10,000	N/A	N/A	N/A	N/A	

Rogers Labs, Inc.
4405 W. 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Garmin International, Inc. SN's: 5FK000182 / 5FK000158
Model: A03363
Test #: 180827
Test to: CFR47 15C, RSS-Gen RSS-210
File: A03363 RFEExp

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