

Garmin		A03337	Test Number:	170724		
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
				dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2440	Peak Power (Watts)	0.0163	Antenna Gain (dBd)		-1.17
Cable Loss (dB)	0.0	(dBm)	12.1	Antenna minus cable (dBi)		1.00
	Calculated ERP (mw)	12.445		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	20.512		Radiated (EIRP) dBm		13.120
				ERP = EIRP - 2.17 dB		
				Radiated (ERP) dBm		10.950
Occupational Limit		Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW)				
5 W/m ²						
5.00000 W/m ²						
General Public Limit						
1 W/m ²						
1.00000 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			
IC radio frequency radiation exposure limits per RSS-102						
	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)			
	100-6,000	0.6455f ^{0.5}				
Canada Occupational Limit						
0.6455f ^{0.5} W/m ²						
31.88535 W/m ²						
Canada General Public Limit						
0.02619f ^{0.6834} W/m ²						
5.40851 W/m ²						
	6,000-15,000	50				
	48-300		1.291			
	300-6,000		0.02619f ^{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
20.512	0.00016	0.00163	100.00	1.00	39.37	3.28
20.512	0.00020	0.00202	90.00	0.90	35.43	2.95
20.512	0.00026	0.00255	80.00	0.80	31.50	2.62
20.512	0.00033	0.00333	70.00	0.70	27.56	2.30
20.512	0.00045	0.00453	60.00	0.60	23.62	1.97
20.512	0.00065	0.00653	50.00	0.50	19.69	1.64
20.512	0.00102	0.01020	40.00	0.40	15.75	1.31
20.512	0.00181	0.01814	30.00	0.30	11.81	0.98
20.512	0.00261	0.02612	25.00	0.25	9.84	0.82
20.512	0.00408	0.04081	20.00	0.20	7.87	0.66
20.512	0.00452	0.04522	19.00	0.190	7.48	0.62
20.512	0.00504	0.05038	18.00	0.180	7.09	0.59
20.512	0.00565	0.05648	17.00	0.170	6.69	0.56
20.512	0.00638	0.06376	16.00	0.160	6.30	0.52
20.512	0.00725	0.07255	15.00	0.150	5.91	0.49
20.512	0.00833	0.08328	14.00	0.140	5.51	0.46
20.512	0.01632	0.16323	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

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Revision 1

Garmin International, Inc.
Model: A03337
Test #: 170724
Test to: CFR47 15C, RSS-210, RSS-247
File: A03337 RFExp

SN's: 5C2000123 / 5C1000155
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