Garmin	Model: A02759		Test Number:	151015		
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)	2
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.078000		Antenna Gain (dBd)	-0.17
Cable Loss (dB)	0.0	(dBm)	18.9		Antenna minus cable (dBi)	2.00
	Calculated ERP (mw)	75.006		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	123.622			Radiated (EIRP) dBm	20.921
				ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	18.751

Power density (S)

EIRP
------- = mW/cm^2
4 p r^2

EIRP (mW), r (cm)

	Occupational Limit	FCC radio frequency radiation exposure limits per 1.1310		
5	mW/cm^2	Frequency (MHz)	Occupational Limit (mW/cm^2)	Public Limit (mW/cm^2)
50	W/m^2	300-1,500	f/300	f/1500
	General Public Limit	1,500-10,000	5	1
1	mW/cm^2			
10	W/m^2			

	Occupational Limit	IC radio frequency radiation exposure limits per RSS-102		
$0.6455f^{0.5}$	W/m^2	Frequency (MHz)	Occupational Limit (W/m^2)	Public Limit (W/m^2)
0.95332	W/m^2	100-6,000	$0.6455f^{0.5}$	
	General Public Limit	6,000-15,000	50	
$0.02619f^{0.6834}$	W/m^2	48-300		1.291
5.40397	W/m^2	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
123.622	0.00121	0.01215	90.00	0.90	35.43	2.95
123.622	0.00154	0.01537	80.00	0.80	31.50	2.62
123.622	0.00201	0.02008	70.00	0.70	27.56	2.30
123.622	0.00273	0.02733	60.00	0.60	23.62	1.97
123.622	0.00393	0.03935	50.00	0.50	19.69	1.64
123.622	0.00615	0.06148	40.00	0.40	15.75	1.31
123.622	0.01093	0.10931	30.00	0.30	11.81	0.98
123.622	0.02459	0.24594	20.00	0.20	7.87	0.66
123.622	0.05821	0.58210	13.00	0.13	5.12	0.43
123.622	0.15371	1.53711	8.00	0.08	3.15	0.26
123.622	0.27326	2.73264	6.00	0.060	2.36	0.20
123.622	0.32521	3.25207	5.50	0.055	2.17	0.18
123.622	0.39350	3.93500	5.00	0.050	1.97	0.16
123.622	0.55768	5.57681	4.20	0.042	1.65	0.14
123.622	1.09306	10.93056	3.00	0.030	1.18	0.10
123.622	2.45937	24.59375	2.00	0.020	0.79	0.07
123.622	5.01913	50.19133	1.40	0.014	0.55	0.05

Frequency (MHz)	Occupational Limit minimum Distance (meters)	Public Limit minimum distance (meters)
47CFR 1.1310	0.014	0.030
RSS-102	<0.01	0.054