	Models: A03873 and B03873		Test Number: 200713_14			
IPE Calculator	RF Exposure uses EIRP for calculation. EIRP is based on		on TX power added to the antenna g	ain in dBi.		
	dBi = dB gain compared to an isotropic radiator.					
	$S = power density in mW/cm^2$					
	Transmitter Output power (mW)					
	Transmitter Output power (W)					2.5
Output Power for %	duty Cycle operation (Watts)	duty Cycle operation (Wa	00 0.019 (ts) 0.019	Ant	Antenna Gain (dBi) enna Gain (Numeric)	1.78
		• • •				
Tx Frequency (MHz)	2437	Calcualtion power (Wa	tts) 0.019	dBd + 2.17 = dBi	dBi to dBd	2.2
Cable Loss (dB)	0.0	Adjusted Power (dB	m) 12.68		Antenna Gain (dBd) na minus cable (dBi)	0.33 2.50
	0.0	Aujusteu Fower (ub	110 12.08	Antenna Gain (Numeric)		1.78
	Calculated ERP (mw)	19 999		EIRP = Po(dBM) + Gain (dB)		1.70
	Calculated EIRP (mw)				adiated (EIRP) dBm	15.180
				ERP = EIRP - 2.17		
	Power density (S) mW/cm ² = $\frac{\text{EIRP}}{4 \text{ p r}^{2}}$			Radiated (ERP) dBm		13.010
	r (cm) EIRP (mW)					
5	Occupational Limit FCC radio fro		o frequency radiation exposure limits	per 1.1310		
		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
- 50	invo/em	30-300		0.2		
3	General Public Limit	300-1,500	f/300	f/1500		
	mW/cm ²	1,500-10,000	5	1		
1(1,500-10,000	5	1		
П	W/m ²					
	Occupational Limit					
$0.6455f^{0.5}$		IC radio	frequency radiation exposure limits pe	PSS 102		
, 0.04337 39.7						
		Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
0.622	General Public Limit	100-6,000	$0.6455f^{0.5}$			
$0.02619 f^{0.6834}$		6,000-15,000	50			
5.4	4 W/m ²	48-300		1.291		
		300-6,000		$0.02619 f^{0.6834}$		
		6,000-15,000	50	10		
= Transmit Frequecny (MHz	z)			f (MHz) =	2437	MHz
P _T = Power Input to Antenna (mW)				P_{T} (mW) =	18.5353	mW
uty cycle (percentage of op	eration)			% =	100	%
P _A = Adjusted Power due to Duty cycle or Cable Loss (mW)				$P_A(mW) =$	18.54	mW
G _N = Numeric Gain of the Antenna				GN (numeric) =	1.78	numeric
S_{20} = Power Density of device at 20cm (mW/m ²)			$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.01	mW/m ²
S_{20} = Power Density of device at 20cm (W/m ²)		$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.07	W/m ²	
$S_L =$ Power Density Limit (W/m ²)		20 1 10 20	S_{L} (W/m ²)=		W/m^2	
$R_{c} = Minimum distance to the Radiating Element for Compliance (cm)$		$R_{C} = \sqrt{(P_A G_N / 4\pi S_L)}$	$R_{\rm C}$ (cm) =		cm	
R_c = Power Density of the device at the Compliance Distance R_c (W/m ²)			$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{C}(W/m^{2}) =$		W/m ²
$R_{20} = 20 \text{ cm}$		(w/m)	$S_{C} - (r_{A} O_{N})/(4\pi r_{C})$	$S_{C}(w/m) =$ R20=		w/m cm
				-120		
	For Complaince with Can	ada General Population Lir	nits, User Manual must indicate a min	imum seperation distance of		cm
	Or in Meter	s for Complaince with Car	ada General Population Limits, a min	imum seneration distance of	0.02	Meters

 Rogers Labs, Inc.
 Garmin International, Inc.
 FCC ID: IPH-03873

 4405 West 259th Terrace
 Models: A03873, B03873
 IC: 1792A-03873

 Louisburg, KS 66053
 Test: 200713_14
 SN's: 3336556891, 3333597072, 3336556773

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 Test to: CFR47 15.C, RSS-210, RSS-247
 Date: October 20, 2020

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