	Model:			Test Number:					
	RF Exposure uses EIRP for calculation. EIRP is based on			TX power added to the antenna ga	in in dBi.				
	dBi = dB gain compared to a		r.						
	S = power density in mW/cm^2 Transmitter Output power (dBm			16.65					
	Transmitter Output power (mW								
Output Power for % duty Cycle operation (Watts)						Antenna Gain (dBi)	3		
Output Power for 100% duty Cycle operation (Watts					Antenna Gain (Numeric)		2.00		
Tx Frequency (MHz)	2437 Calcualtion power (Watts				dBd + 2.17 = dBi	dBi to dBd	2.2		
1x Frequency (MHZ)	2437	Calcuation power (wates)		0.05					
		0.0 45 10 (10				Antenna Gain (dBd)			
Cable Loss (dB)	0.0	Adjusted Power (dBm)		16.65	Anten	na minus cable (dBi)	3.00		
	Calculated ERP (mw) 55.976				FIDD - D	o(dBM) + Gain (dB)			
	Calculated EIRP (mw) 92.257				Radiated (EIRP) dBm				
					ERP = EIRP - 2.17				
	Power density (S) mW/cm ² =				F	Radiated (ERP) dBm			
	Power density (S) mW/	4 p r^2							
	r (cm) EIRP (mW)								
	Occupational Limit	T.	CC radio f	requency radiation exposure limits p	per 1 1310				
5	mW/cm ²	Frequency (MHz)		Occupational Limit (mW/cm²)	Public Limit (mW/cm²)				
50	W/m ²	30-300		1	0.2				
	General Public Limit	30-1,500		f/300	f/1500				
		1,500-1,500		5	1/1300				
10	mW/cm ²	1,500-10,	000	3	1				
10	W/m ²								
	Occupational Limit								
$0.6455 f^{0.5}$	W/m^2	IC radio fre		quency radiation exposure limits per	RSS-102				
39.7	W/m ²	Frequency (MHz)		Occupational Limit (W/m²)	Public Limit (W/m²)				
	General Public Limit	100-6,000		$0.6455f^{0.5}$					
$0.02619f^{0.6834}$	W/m ²	6,000-15,		50					
5.4	W/m ²	48-300		30	1.291				
5.4	W/III	300-6,000			$0.02619f^{0.6834}$				
		6,000-15,		50	10				
		0,000-13,	000	30	10				
f = Trans mit Frequecny (MHz)					f (MHz) =	2437	MHz		
P _T = Power Input to Antenna (mW)					P_{T} (mW) =	46.2381	mW		
Duty cycle (percentage of operation)					% =	100			
P _A = Adjusted Power due to Duty cycle or Cable Loss (mW)					$P_A(mW) =$	46.24	mW		
G _N = Numeric Gain of the Antenna				GN (numeric) =	2.17	numeric			
S ₂₀ = Power Density of device at 20cm (mW/m ²)				$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.02	mW/m ²		
S ₂₀ = Power Density of device at 20cm (W/m ²)				$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.20	W/m ²		
S _L = Power Density Limit (W/m ²)					$S_L (W/m^2)=$		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 _C (cm) =		cm		
S_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			
$R_{20} = 20 \text{cm}$				- (- AON) (mac)	R20=		cm		
					-120	20			
				s, User Manual must indicate a minimum seperation distance of la General Population Limits, a minimum seperation distance of			cm		
	rs for Complaince with Canada		0.04			Meters			
0 0 11	5011: 10								
	E Calculations and Summary	T. F	OMIL)	Power Total (mW)	Antenna Gain (dBi)	G 0777 2	g gyr 2	D ()	G (771) 2
Band (MHZ) 2402-2480	Tx Duty Cycle (%) 100	Tx Frequeny 2437	(IVITIZ)		Antenna Gain (dBi)	S _L (W/m ²) 5.404	S ₂₀ (W/m ²) 0.20	R _C (cm)	S _C (W/m ² 5.40
2402-2480	100	1 243/		46	1 3	1 5.404	0.20	1 3.8	5.40

Rogers Labs, Inc. Garmin International, Inc. 4405 West 259th Terrace Model: B4305

Louisburg, KS 66053 Test: 211230

Phone/Fax: (913) 837-3214 Test to: CFR47 15C, RSS-247 Revision 1 File: B4305 RFExp

SN's: 2571389580, 1786939084 FCC ID: IPH-B4305 IC: 1792A-B4305 Date: March 7, 2022

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