	Model: A04272			Test Number	210729		
MPE Calculator	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 an isotropic radiator.						
	S = power density in mW/cm^2						
	Transmitter Output power (mW)			2.3			
	Transmitter Output power (W			0.002			
Output Power for % duty Cycle operation (Watts)			100	0.002		Antenna Gain (dBi)	
	Output Power for 100%	Output Power for 100% duty Cycle operation (Watt		0.002	Ante	enna Gain (Numeric)	0.20
Tx Frequency (MHz)	quency (MHz) 2437		wer (Watts)	0.002	dBd + 2.17 = dBi		
Cabla I and (ID)	0.0 41: 410		(ID.)	2.55	Antenna Gain (dBd) Antenna minus cable (dBi)		
Cable Loss (dB)	0.0 Adjusted Power (dBr		ower (dBm)	3.66	Antenna Gain (Numeric)		
	Calculated ERP (mw) 0.281				EIRP = Po(dBm) + Gain (dB)		0.20
	Calculated ERP (mw) 0.463				Radiated (EIRP) dBm		-3.340
					ERP = EIRP - 2.17 (
	T	EIRP				Radiated (ERP) dBm	
	Power density (S) mW/					(,	2.2.20
		4 p r^2					
	r (cm) EIRP (mW)						
5			'				
	Occupational Limit FC		CC radio fi	requency radiation exposure limits p	per 1.1310		
	mW/cm ² Frequency (MHz)		MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
50	W/m^2 30-300)	1	0.2		
	General Public Limit 300-1,500		00	f/300	f/1500		
1	mW/cm^2 1,500-10,000		000	5	1		
10	W/m ²						
	Occupational Limit						
0.6455 <i>f</i> ^{0.5} 39.7			C radio free	equency radiation exposure limits per RSS-102			
	W/m ² Frequency (MHz)			Occupational Limit (W/m²)	Public Limit (W/m ²)		
	General Public Limit	100-6,000		$0.6455 f^{0.5}$	T done Limit (W/III)		
$0.02619f^{0.6834}$				50			
5.4		6,000-15,000		50	1 201		
	W/m ²	48-300			1.291		
		300-6,000			$0.02619f^{0.6834}$		
		6,000-15,	000	50	10		
T					£AMI \	0.427	MII-
f = Transmit Frequency (MHz)					f(MHz) =		MHz
P _T = Power Input to Antenna (mW) Duty cycle (percentage of operation)					P_{T} (mW) =	2.3227	
					% =	100	
P _A = Adjusted Power due to Duty cycle or Cable Loss (mW)					$P_A(mW) =$		mW
G _N = Numeric Gain of the Antenna				a	GN (numeric) =		numeric
S ₂₀ = Power Density of device at 20cm (mW/m ²)				$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$		mW/m ²
20 = Power Density of devic			$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$		W/m ²	
L = Power Density Limit (W	/m ²)				$S_L (W/m^2) =$	5.404	W/m ²
C = Minimum distance to the	e Radiating Element for Compliance	e (cm)		$R_C = \sqrt{(P_A G_N / 4\pi s_L)}$	R_{C} (cm) =	0.3	cm
S _C = Power Density of the de	vice at the Compliance Distance Re	(W/m ²)		$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$	5.40	W/m ²
$R_{20} = 20$ cm					R20=		cm
	For Compliance with Con	ada General Popul	lation Limite	, User Manual must indicate a minii	num cenaration distance of	0.3	cm
	•	•		, Oser Manuai must indicate a minii a General Population Limits, a minii	•		Meters

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Revision 1

Garmin International, Inc.

Model: A04272 Test: 210729

Test to: CFR47 15C, RSS-210 File: A04272 RF Exemption

SN's: 72W000054 / 72W000083

FCC ID: IPH-04272 IC: 1792A-04272 Date: October 4, 2021

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