MPE Calculator	RF Exposure uses EIRP for c	alculation. EIRP is based on	TX power added to the antenna ga	in in dBi.		
	dBi = dB gain compared to a	n isotropic radiator.				
	S = power density in mW/cm^2					
	Transmitter Output power (mW					
	Transmitter Output power (W)					
Output Power for % duty Cycle operation (Watts)		100			Antenna Gain (dBi)	
	Output Power for 100% duty Cycle operation (Watt		0.002	Ante	enna Gain (Numeric)	0.20
x Frequency (MHz)	2437	Calcualtion power (Watts	0.002	dBd + 2.17 = dBi	dBi to dBd	2.2
					Antenna Gain (dBd)	-9.17
Cable Loss (dB)	0.0	0.0 Adjusted Power (dBm)		Antenna minus cable (dBi) Antenna Gain (Numeric)		-7.00
						0.20
	Calculated ERP (mw) 0.281			EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw) 0.463			Radiated (EIRP) dBm		
	Power density (S) mW/cm ² =			ERP = EIRP - 2.17		
				R	adiated (ERP) dBm	-5.510
		4 p r^2				
	r (om) EIDD (w-W)					
	r (cm) EIRP (mW)					
	Occupational Limit	FCC radio	frequency radiation exposure limits p	per 1 1310		
5		Frequency (MHz)	Occupational Limit (mW/cm²)	Public Limit (mW/cm ²)		
5(30-300		0.2		
30	W/m General Public Limit	30-300	f/300	f/1500		
				1/1500		
	IIIW/CIII	1,500-10,000	5	1		
10	W/m ²					
	Occupational Limit					
$0.6455 f^{0.5}$		IC radio fre	quency radiation exposure limits per	PSS_102		
39.7						
	***************************************	Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m ²)		
	General Public Limit	100-6,000	$0.6455f^{0.5}$			
$0.02619f^{0.6834}$ 5.4	W/m ²	6,000-15,000	50			
	$\frac{4}{W/m^2}$	48-300		1.291		
		300-6,000		$0.02619f^{0.6834}$		
		6,000-15,000	50	10		
Transmit Frequeeny (MH	z)			f (MHz) =	2437	MHz
P _T = Power Input to Antenna (mW)				$P_{T}(mW) =$	2.3227	mW
Duty cycle (percentage of operation)				% =	100	%
P _A = Adjusted Power due to Duty cycle or Cable Loss (mW)				$P_{A}(mW) =$	2.32	mW
G _N = Numeric Gain of the Antenna				GN (numeric) =	0.20	numeric
S_{20} = Power Density of device at 20 cm (mW/m ²)			$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.00	mW/m ²
S ₂₀ = Power Density of device at 20cm (W/m ²)			$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.00	W/m ²
$S_L = Power Density Limit (W/m^2)$			20	$S_{L}(W/m^{2})=$		W/m ²
R _C = Minimum distance to the Radiating Element for Compliance (cm)		(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	
$_{c}$ = Power Density of the de $_{20}$ = 20cm	vice at the Comphance Distance K _C	(₩/Ш)	SC-(1 AON)/(4/LIC)	$S_C(W/HI) = R20=$		cm
				IN20=	20	
	For Complaince with Cana	da General Population Limit	s, User Manual must indicate a minir	num seperation distance of	0.3	cm
			la General Population Limits, a minir		0.00	Meters

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

Phone/Fax: (913) 837-3214

Revision 1

Garmin International, Inc.

Model: AA4272 Test: 210728

Test to: CFR47 15C, RSS-210 File: AA4272 RF Exemption

IC: 1792A-A4272

SN's: 72U000061 / 72U000098

FCC ID: IPH-A4272

Date: September 27, 2021

Page 1 of 1