	I IN TINT	AB2759	T N. 1	220615				
MPE Calculator			Test Number TX power added to the antenna ga					
IVIT IS CARCURATOF	dBi = dB gain compared to a		TA power added to the antenna ga	miniup.				
	S = power density in mW/cm							
Output Power for %		ansmitter Output power (mW)	19.999					
		Fransmitter Output power (W)						
	duty Cycle operation (Watts)				Antenna Gain (dBi)	4.2		
	Output Power for 100%	duty Cycle operation (Watts)	0.020	Ante	enna Gain (Numeric)	2.63		
Tx Frequency (MHz)	2437	Calculation power (Watts)	0.020	dBd + 2.17 = dBi				
					Antenna Gain (dBd)			
Cable Loss (dB)	0.0	Adjusted Power (dBm)	13.01		na minus cable (dBi)	4.20		
	Calculated EDD (mm)	21.015			enna Gain (Numeric)	2.63		
	Calculated ERP (mw) 31.915 Calculated EIRP (mw) 52.602				o(dBm) + Gain (dB) adiated (EIRP) dBm	17.210		
				K	ERP = EIRP - 2.17			
	D 1 1 (0)	EIRP		I	Radiated (ERP) dBm			
	Power density (S) mW,	4 p r^2						
		· p · 2						
	r (cm) EIRP (mW)							
			 	1.1210				
	Occupational Limit		requency radiation exposure limits p					
8.123333333		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)	ļ			
81.2		30-300	1	0.2				
	General Public Limit	300-1,500	f/300	f/1500				
1.624666667	mW/cm ²	1,500-10,000	5	1				
16.2	W/m ²							
	Occupational Limit							
$0.6455f^{0.5}$	W/m ²	IC radio fre	quency radiation exposure limits per	RSS-102				
31.9	W/m ²	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}	W/m ²	6,000-15,000	50					
5.40		48-300		1.291				
		300-6,000		$0.02619f^{0.6834}$				
		6,000-15,000	50	10				
		0,000 10,000	50	10	General Public	Occupational		
f = Transmit Frequency (MHz)				f (MHz) =	2437		MHz	
P _T = Power Input to Antenna (mW)				$P_T(mW) =$	19.9986			
Duty cycle (percentage of operation				% =	100			
PA = Adjusted Power due to Duty of				$P_A(mW) =$	20.00	20.00	mW	
G _N = Numeric Gain of the Antenna				GN (numeric) =	2.63		numeric	
S_{20} = Power Density of device at 20cm (mW/m ²)			$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.01		mW/m ²	
S ₂₀ = Power Density of device at 20			$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.10		W/m ²	
			520=(1 AGN) (441(20)			81.233		
$S_L =$ Power Density Limit (W/m ²) F				$S_L (W/m^2) =$				
$S_L = Power Density Limit (W/m2) C$				$S_L (W/m^2) =$	5.404	31.866		
R _C = Minimum distance to the Radi			$R_C = \sqrt{(P_A G_N / 4\pi s_i)}$	R _C (cm) =	1.6		cm	
R _C = Minimum distance to the Radi	ating Element for Compliance (cm)	Canada	$R_C = \sqrt{(P_A G_N / 4\pi s_i)}$	$R_{\rm C}$ (cm) =	2.8		cm	
$S_C = Power Density of the device at$	t the Compliance Distance R _C (W/	m ²) FCC	$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_C (W/m^2) =$	16.25	81.23	W/m ²	
$S_C = Power Density of the device a$	t the Compliance Distance R _C (W/n	m²) Canada	$S_{C}=(P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{C}(W/m^{2}) =$	5.40	31.87	W/m ²	
R ₂₀ = 20cm				R20=	20	20	cm	
			s, User Manual must indicate a mini		2.8			
	Or in Mete	rs for Compliance with Canad	a General Population Limits, a mini	mum separation distance of	0.03	Meters		
					D 1 P T · · ·		D 1 F	
Summary: Standalone MPE Ca	· · · · · ·				Public Limit		Public	-
D C -	Tx Duty Cycle (%)	Tx Frequency (MHz)	Power Total (mW)	Antenna Gain (numeric)	$S_L (W/m^2)$	S ₂₀ (W/m ²)	R _C (cm)	S _C (W/m ²
FCC	100	2437	20 20	2.63	16.247	0.10	1.6	16.25
Canada	100	2437	20	2.63	5.404	0.10	2.8	5.40
			Limit	Overall Minimum (cm)	Overall Minimum (in	iches)		
		Public	Occupational	G voran ivinmillill (CIII)	C veran iviliminnii (II	circs)		
	FCC (cm)	1.6	0.7					
	FCC (inches)	1.0	1.0					
	Canada (cm)	2.8	1.1					
	Canada (inches)	2.0	1.0					
Overall Minimu			Overall Minumu Limit					
	s cm			cm				
2	2 inches		1	inches				

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Garmin International, Inc. SN Model: AB2759 Test: 220615 Test to: CFR47 15C, RSS-210, RSS-247 File: AB2759 RFEXp

SN's: 3415979883, 3415979878 FCC ID: IPH-B2759 IC: 1792A-B2759 247 Date: September 7, 2022 Page 1 of 1