051153 RF Exposure Exhibit RSS-102 Issue 5 / 47CFR 90.223

HVIN: 051153

	HVIN:		Test Number:					
			n TX power added to the antenna g	ain in dBi.				
	dBi = dB gain compared to a							
	S = power density in mW/cn							
		insmitter Output power (mW)						
		ransmitter Output power (W)						
		100			Antenna Gain (dBi)	1		
	Output Power for 100%	duty Cycle operation (Watts)	0.001	Ante	nna Gain (Numeric)	1.26		
Tx Frequency (MHz)	915	Calculation power (Watts)	0.00	dBd + 2.17 = dBi	dBi to dBd	2.17		
					Antonno Coin (dDd)	1.17		
Cable Loss (dB)	0.0	Adjusted Power (dBm)	-0.92		Antenna Gain (dBd) a minus cable (dBi)	-1.17 1.00		
Cable Loss (dB)	0.0	Adjusted Fower (dbill)	-0.92		nna Gain (Numeric)	1.26		
	Calculated ERP (mw)	0.610			o(dBm) + Gain (dB)	1.20		
	Calculated EIRP (mw)				diated (EIRP) dBm	0.085		
	Calculated Eliter (Iliw)	1.020			ERP = EIRP - 2.17			
		EIRP			adiated (ERP) dBm	-2.085		
	Power density (S) mW/c				()			
		4 p r^2						
	r (cm) EIRP (mW)							
	1 (6.1.) Elici (1114)							
	FCC Occupational Limit	FCC radio fr	requency radiation exposure limits	per 1.1310				
3.05	mW/cm ²	Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm²)				
30.5	W/m ²	30-300	1	0.2				
	FCC General Public Limit	300-1,500	f/300	f/1500				
0.61	mW/cm ²	1,500-10,000	5	1				
		1,500-10,000	,	1				
6.1	W/m ²							
1000								
	Occupational Limit Canada			Pag 102				
$0.6455 f^{0.5}$	W/m ²		quency radiation exposure limits pe	er RSS-102				
19.5	W/m^2	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)				
ISED Ge	neral Public Limit Canada	100-6,000	$0.6455 f^{0.5}$					
$0.02619f^{0.6834}$	W/m ²	6,000-15,000	50					
2.77	W/m ²	48-300		1.291				
2.77	W/III							
		300-6,000		$0.02619f^{0.6834}$				
		6,000-15,000	50	10	0 1011	0		
				0.0 (77.)	General Public	Occupational		
f = Transmit Frequency (MHz)				f (MHz) =	915		MHz	
P _T = Power Input to Antenna (mW)				$P_{T}(mW) =$	0.8100	0.8100		
Duty cycle (percentage of operation)				% =	100	100		
P _A = Adjusted Power due to Duty cyc	:le or Cable Loss (mW)			$P_A(mW) =$	0.81	0.81		
G _N = Numeric Gain of the Antenna				GN (numeric) =	1.26	1.26	numeric	
S_{20} = Power Density of device at 20c	:m (mW/m ²)		$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.00	0.00	mW/m ²	
S_{20} = Power Density of device at 20c	:m (W/m ²)		$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.00	0.00	W/m^2	
S _L = Power Density Limit (W/m ²) FO				$S_L(W/m^2)=$	6.100	30.500	W/m ²	
$S_L = Power Density Limit (W/m2) Ca$				$S_L(W/m^2)=$	2.767	19.526		
) FCC	P = l/n c u					
R _C = Minimum distance to the Radiat			$R_C = \sqrt{(P_AG_N/4\pi s_L)}$	R_{C} (cm) =	0.4	0.2		
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) =	0.5	0.2		
S_C = Power Density of the device at the Compliance Distance R_C (W/n		n²) FCC	$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$	6.10	30.50		
S _C = Power Density of the device at t	he Compliance Distance R _C (W/r	n ²) Canada	$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$	2.77	19.53	W/m^2	
$R_{20} = 20 \text{cm}$				R20=	20	20	cm	
	For Compliance with Canada	a General Population Limits,	User Manual must indicate a minir	num separation distance of	0.5	cm		
	Or in Meters f	or Compliance with Canada	General Population Limits, a minir	num separation distance of	0.01	Meters		
Summary: Standalone MPE Cale	•				Public Limit		Public	
	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
	100	915	1	1.26	6.100	0.00	0.4	6.10
FCC		915	1	1.26	2.767	0.00	0.5	2.77
FCC Canada	100							
	100				Overall Minimum (inches)			
	100		Limit	Overall Minimum (cm)	Overall Minimum (i	nches)		
	100	Public	Limit Occupational	Overall Minimum (cm)	Overall Minimum (i	nches)		
Canada	100 FCC (cm)	Public 0.4	Occupational 0.2	Overall Minimum (cm)	Overall Minimum (i	nches)		
Canada		Public 0.4 1.0	Occupational 0.2 1.0	Overall Minimum (cm)	Overall Minimum (i	inches)		
Canada	FCC (cm)	Public 0.4	Occupational 0.2 1.0 0.2	Overall Minimum (cm)	Overall Minimum (i	inches)		
Canada	FCC (cm) FCC (inches)	Public 0.4 1.0	Occupational 0.2 1.0	Overall Minimum (cm)	Overall Minimum (i	inches)		
Canada	FCC (cm) FCC (inches) Canada (cm) Canada (inches)	Public 0.4 1.0 0.5	Occupational 0.2 1.0 0.2 1.0		Overall Minimum (i	inches)		
Canada	FCC (cm) FCC (inches) Canada (cm) Canada (inches)	Public 0.4 1.0 0.5	Occupational 0.2 1.0 0.2 1.0 0.2 1.0 Overall Minumu Limi		Overall Minimum (i	inches)		

Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Road HVIN: 051153 PMN: 051153 Test: 240930 Lenexa, KS 66214 FCC ID: FIH051153

Phone/Fax: (913) 660-0666 Test to: 47CFR 90.223, RSS-102

Revision 1 Test: 240930 File: 051153 RFExp TransCore

SN: ENG1

IC: 1584A-051153

Date: November 14, 2024

Page 1 of 1