Elecsys Corporation	Model:	02-0084-10	Test Number:	180820		
MPE Calculator	MPE uses EIRP for cal	culation. EIRP is based of	n TX power added to the antenn	na gain in dBi.		
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mV	V/cm^2				
					Antenna Gain (dBi)	
				dBd + 2.17 = dBi	dBi to dBd	2.
Tx Frequency (MHz)	2440	Peak Power (Watts)	0.1197		Antenna Gain (dBd)	1.8
Cable Loss (dB)	0.0	(dBm)	20.8	A	ntenna minus cable (dBi)	4.0
		(32.11)				
	Calculated ERP (mw)	182.390		EIRP = Po(dBM) + Gain (d	B)	
	Calculated EIRP (mw)	300.608			Radiated (EIRP) dBm	24.78
		Power density (S)		ERP = EIRP - 2.17 dB		
	Occupational Limit	EIRP			Radiated (ERP) dBm	22.61
5	mW/cm <sup>2</sup>	= mW/cm^2				
50.00000		4 p r^2				
•	General Public Limit	r (cm) EIRP (mW)				
	mW/cm <sup>2</sup>					
10.00000	W/m <sup>2</sup>	ECC so dia	frequency radiation exposure lir	nite non 1 1210		
		Frequency (MHz)	Occupational Limit (mW/cm²)	Public Limit (mW/cm2)		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1/1300		
		1,500-10,000	J	1		
Canac	la Occupational Limit	IC radio fi	equency radiation exposure limit	s per RSS-102		
$0.6455 f^{0.5}$	$W/m^2$	Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m <sup>2</sup> )		
31.88535		100-6,000	$0.6455f^{0.5}$	ì		
Canada General Public Limit		6,000-15,000	50			
$0.02619f^{0.6834}$		48-300	30	1.291		
5.40851		300-6,000		$0.02619f^{0.6834}$		
5.40051	W/M	6,000-15,000	50	10		
		0,000-13,000	30	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
300.608	0.00239	0.02392	100.00	1.00	39.37	3.28
300.608	0.00295	0.02953	90.00	0.90	35.43	2.95
300.608	0.00374	0.03738	80.00	0.80	31.50	2.62
300.608	0.00488	0.04882	70.00	0.70	27.56	2.30
300.608	0.00664	0.06645	60.00	0.60	23.62	1.97
300.608	0.00957	0.09569	50.00	0.50	19.69	1.64
300.608	0.01495	0.14951	40.00	0.40	15.75	1.31
300.608	0.02658	0.26580	30.00	0.30	11.81	0.98
300.608	0.03827	0.38275	25.00	0.25	9.84	0.82
300.608	0.05980	0.59804	20.00	0.20	7.87	0.66
300.608	0.06626	0.66265	19.00	0.190	7.48	0.62
300.608	0.07383	0.73832	18.00	0.180	7.09	0.59
300.608	0.08277	0.82774	17.00	0.170	6.69	0.56
300.608	0.09344	0.93444	16.00	0.160	6.30	0.52
300.608	0.10632	1.06318	15.00	0.150	5.91	0.49
300.608	0.12205	1.22049	14.00	0.140	5.51	0.46
300.608	0.23922	2.39216	10.00	0.100	3.94	0.33
			Occupational Limit minimum	Occupational Limit		
		Frequency (MHz)	Distance	minimum Distance	Public Limit minimum	Public Limit minimum
			(meters)	(cm / inches)	distance (meters)	distance (cm / inches
		200 1 500			0.20	20.77.9
		300-1,500	N/A	N/A	0.20	20 / 7.8
		1,500-10,000	N/A	N/A	N/A	N/A

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Revision 1

**Elecsys International Corporation** 

Model: 02-0084-10 Test #: 180820

Test to: FCC Parts 2 and 87 File: 02008410 RFExp

S/N: ENG1

FCC ID: 2ABOY-02008410 IC: 12222A-02008410 Date: September 5, 2018

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