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RF Exposure Evaluation Report

APPLICANT	VERDANT ENVIRONMENTAL TECHNOLOGIES		
	1850 55E AVENUE		
	LACHINE QUEBEC H8T 3J5 CANADA		
FCC ID	XEYWX		
IC	8410A-WX		
MODEL NUMBER	WX, VX		
PRODUCT DESCRIPTION	THERMOSTAT		
STANDARD APPLIED	CFR 47 Part 2.1091		
PREPARED BY	Tim Royer		

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and ISED RSS-102 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.



GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669



Authorized Signatory Name:

Tim Royer, Engineer

Date: 11/6/2017

Applicant: VERDANT ENVIRONMENTAL TECHNOLOGIES

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Report: 871YAUT17 RF Exp MPE Rpt.DOCX



RF Exposure Requirements

General information

Device type: THERMOSTAT

Antenna

Configuration	Antenna p/n	Туре	Max. Gain (dBi)
Fixed mounted	Any	Wave	2.15

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1 and ISED RSS-102 § 4 Table 3.

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Minimum Separation Distance for Mobile or Fixed Devices General Population/Uncontrolled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

0.00443 W 4.43 mW Max Power equals Max Power 100 % **Duty Cycle** equals **Duty Factor** 1 numeric 2.15 dBi Antenna Gain equals Gain numeric 1.64059 numeric 0 dB Coax Loss Gain - Coax Los 1.64059 numeric 0.6 mW/cm² **Power Density**

Enter power Density from the chart to the right

Frequency 928 MHz

Rule Part 1.1310, Table 1 (B)

Frequency rang	Power den	Enter this value	
MHz	mW/cm ²	mW/cm²	
0.3-1.34	100	100	
1.34-30	180/f ²	0.0	
30-300	0.2	0.2	
300-1,500	f/1500	0.6	
1,500-100,000	1	1	

f = frequency in MHz

Minimum Separation Distance	1 cm	0.01 m
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Minimum Seperation in Inches 0.386239 Inches

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