

## RF Exposure Report

**Report No.:** SA171205C01

**FCC ID:** ASU-CLIW200

**Test Model:** CLI-W200WXXX, CLI-W200BXXX (XXX Can be 0-9, - or Blank.)

**Received Date:** Dec. 05, 2017

**Date of Evaluation:** Mar. 12, 2018

**Issued Date:** Mar. 14, 2018

**Applicant:** Savant Systems LLC

**Address:** 45 Perseverance Way, Hyannis MA 02601 USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
SA171205C01	Original Release	Mar. 14, 2018

## 1 Certificate of Conformity

**Product:** Savant WiFi Thermostat With Touchscreen

**Brand:** SAVANT

**Test Model:** CLI-W200WXXX, CLI-W200BXXX (XXX Can be 0-9, - or Blank.)

**Sample Status:** Identical Prototype

**Applicant:** Savant Systems LLC

**Date of Evaluation:** Mar. 12, 2018

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**



**Date:**

Mar. 14, 2018

Gina Liu / Specialist

**Approved by :**



**Date:**

Mar. 14, 2018

Dylan Chiou / Project Engineer

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

## 2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	21.5	0.91	20	0.035	1
5180-5240	18.5	2.34	20	0.024	1
5260-5320	18.5	2.34	20	0.024	1
5500-5700	18.5	2.48	20	0.025	1
5745-5825	18.5	2.57	20	0.025	1
BT LE	4.5	0.91	20	0.001	1

Note: The WLAN 2.4G, WLAN 5G and BT cannot transmit simultaneously.

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