

## RF Exposure Report

**Report No.:** SA180906C10

**FCC ID:** 2AJCX-BOSS-MINI

**Test Model:** Yboss mini

**Series Model:** Yboss miniXX (where "Y" may be symbol and "X" may be any alphanumeric character, "-" or blank)

**Received Date:** Sep. 06, 2018

**Test Date:** Sep. 22 ~ Sep. 28, 2018

**Issued Date:** Oct. 11, 2018

**Applicant:** Carel Industries s.p.a.

**Address:** Via dell Industria 11 35020 Brugine (PD) Italy

**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
SA180906C10	Original release.	Oct. 11, 2018

## 1 Certificate of Conformity

**Product:** BOSS mini

**Brand:** CAREL

**Test Model:** Yboss mini

**Series Model:** Yboss miniXX (where "Y" may be symbol and "X" may be any alphanumeric character, "-" or blank)

**Sample Status:** Engineering sample

**Applicant:** Carel Industries s.p.a.

**Test Date:** Sep. 22 ~ Sep. 28, 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 RF characteristics under the conditions specified in this report.

**Prepared by :** Suntee Liu , **Date:** Oct. 11, 2018  
Suntee Liu / Specialist

**Approved by :** Bruce Chen , **Date:** Oct. 11, 2018  
Bruce Chen / 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = 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.

## 3 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> )
WLAN 2412~2462	15.40	2.89	20	0.013	1

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