

## TEST REPORT

### FCC Rules Part 15.231

**Report Reference No.**.....: **MTEB22120325-H**

**FCC ID**.....: **2BAL2-A1**

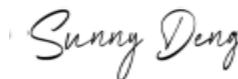
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Date of issue.....: **February 13, 2023**

**Representative Laboratory Name**.: **Shenzhen Most Technology Service Co., Ltd.**

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Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**.....: **Zhejiang ChangRong Industry and Trade Co., Ltd**

Address .....: No. 12<sup>th</sup>, Shuixian Road, Baihuashan Industrial Zone, Wuyi County,  
Jinhua, Zhejiang P. R. China

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Treadmill

Trade Mark .....: N/A

Model/Type reference.....: A1

Listed Models .....: A1F, K2, K1, K1F, T1, T1F, A6, A6F, A5, A5F, K2

Modulation Type .....: ASK

Operation Frequency.....: 433.92MHz

Hardware version .....: V1.2

Software version .....: V1.1

Rating .....: DC 3V(by Battery)

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Treadmill

Model /Type : A1

Listed Models : A1F, K2, K1, K1F, T1, T1F, A6, A6F, A5, A5F, K2

Remark : Only the models are different, everything else is the same.

Applicant : Zhejiang ChangRong Industry and Trade Co., Ltd

Address : No. 12th, Shuixian Road, Baihuashan Industrial Zone, Wuyi County, Jinhua, Zhejiang P. R. China

Manufacturer : Zhejiang ChangRong Industry and Trade Co., Ltd

Address : No. 12th, Shuixian Road, Baihuashan Industrial Zone, Wuyi County, Jinhua, Zhejiang P. R. China

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Contents

### 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.02.13	Initial Issue	Alisa Luo

## 2.1 RF Exposure Compliance Requirement

### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

#### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

$$\text{EIRP} = \text{PT} \times \text{GT} = (E \times D)^2 / 30$$

where:

PT = transmitter output power in watts,  
 GT = numeric gain of the transmitting antenna (unitless),  
 $E = \text{electric field strength in V/m, } 10^{(\text{dB}\mu\text{V/m})/20} / 10^6$ ,  
 D = measurement distance in meters (m)---3m,  
 So  $\text{PT} = (E \times D)^2 / 30 / \text{GT}$

The worst case (refer to report MTEB22120325) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	73.69	Peak
433.92	65.93	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	74.96	Peak
433.92	67.20	Average

For 433.92MHz wireless:

Field strength=74.96 dBuV/m

Ant gain:2dBi;so Ant numeric gain=1.58

$$\text{EIRP} = \text{PT} \times \text{GT} = (E \times D)^2 / 30 = (10^{(\text{dB}\mu\text{V/m})/20} / 10^6)^2 / 30 = 0.0000108$$

$$\text{So PT} = \text{EIRP}/\text{GT} = 0.0000108 \text{W} = 0.0108 \text{mW}$$

$$\text{So}(0.0108 \text{mW}/5 \text{mm}) * \sqrt{0.43392 \text{GHz}} = 0.00142$$

exclusion=0.00142<3.0 for 1-g SAR

So the SAR report is not required.