

## TEST REPORT

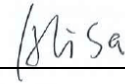
### FCC Rules Part 15.231e

**Report Reference No.....: MTWG22020068-H**

**FCC ID..... : 2AY3B-SC92**

Compiled by

( position+printed name+signature)..: File administrators Alisa Luo



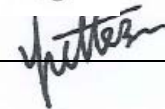
Supervised by

( position+printed name+signature)..: Test Engineer Sunny Deng



Approved by

( position+printed name+signature)..: Manager Yvette Zhou



Date of issue.....: **February 16, 2022**

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

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name.....:** Beijing Toplead Technology Co.,Ltd.

Address .....: 816,Block D, North Zhonghui International Center Shijingshan  
District Beijing 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 .....**: thermometer

Trade Mark .....: Smartro

Model/Type reference.....: SC92

Listed Models .....: N/A

Modulation Type .....: ASK

Operation Frequency.....: 433.92MHz

Hardware version .....: VER 1.1

Software version .....: VER 1.0

Rating .....: DC3V(by Batteries)

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

**TEST REPORT**

Equipment under Test : thermometer

Model /Type : SC92

Listed Models : N/A

Applicant : **Beijing Toplead Technology Co.,Ltd.**

Address : 816,Block D, North Zhonghui International Center Shijingshan  
District Beijing China

Manufacturer : **Beijing Toplead Technology Co.,Ltd.**

Address : 816,Block D, North Zhonghui International Center Shijingshan  
District Beijing 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	2022.02.16	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:

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

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

$$EIRP = PT * GT = (E \times D)^2 / 30$$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,  $10^{(dB\mu V/m)/20} / 10^6$ ,

D = measurement distance in meters (m)---3m,

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

The worst case (refer to report MTWG22020064) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	79.58	Peak
433.92	70.75	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	78.16	Peak
433.92	69.33	Average

For 433.92MHz wireless:

Field strength=79.58 dBuV/m

Ant gain:0dBi;so Ant numeric gain=1.0

$$EIRP = PT * GT = (E \times D)^2 / 30 = (10^{(dB\mu V/m)/20} / 10^6 * 3)^2 / 30 = 0.000027W$$

$$\text{So } PT = EIRP / GT = 0.000027W / 1 * 1000 = 0.027mW$$

$$\text{So } (0.027mW / 5mm) * \sqrt{0.43392GHz} = 0.0036$$

exclusion=0.0036<3.0 for 1-g SAR

So the SAR report is not required.