

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB23100063-H**

**FCC ID**..... : **2BBGK-IK2**

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**Applicant's name**..... : **Shenzhen Xincheng Times Technology Co.,Ltd**

Address..... : 104-105, Block C, Donghai Wang Building, No. 369 Bulong Road,  
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Shenzhen

**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**.....: Electric Kids Scooter

Trade Mark.....: iScooter

Model/Type reference..... : iK2

Listed Models ..... : iK1、iK1Pro、iK2Pro、iK3、iK3Pro、iK4、iK4Pro、iK5、iK5Pro、  
iK6、iK6Pro

Modulation Type..... : GFSK,  $\pi/4$ DQPSK, 8DPSK

Operation Frequency..... : From 2402MHz to 2480MHz

Hardware Version..... V-1.0

Software Version..... V5.0

Rating..... DC 21V by Adapter

DC 18V by Battery

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

## TEST REPORT

Equipment under Test : Electric Kids Scooter

Model /Type : iK2

Listed Models : iK1、iK1Pro、iK2Pro、iK3、iK3Pro、iK4、iK4Pro、iK5、iK5Pro、iK6、iK6Pro

Remark 1 : Only the model name and appearance color are different

Applicant : **Shenzhen Xincheng Times Technology Co.,Ltd**

Address : 104-105, Block C, Donghai Wang Building, No. 369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen

Manufacturer : **Shenzhen Xincheng Times Technology Co.,Ltd**

Address : 104-105, Block C, Donghai Wang Building, No. 369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

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.

1. Revision History

| Revision | Issue Date | Revisions     | Revised By |
|----------|------------|---------------|------------|
| 00       | 2023-10-11 | Initial Issue | Alisa Luo  |
|          |            |               |            |
|          |            |               |            |

## **2. SAR Evaluation**

### **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:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \left[ \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  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

Antenna Gain: 0.07dBi

## EDR

| GFSK             |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402 MHz) | -0.702                  | $-0.702 \pm 1$          | 0.298                 |
| Middle(2441MHz)  | 1.091                   | $1.091 \pm 1$           | 2.091                 |
| Highest(2480MHz) | -0.834                  | $-0.834 \pm 1$          | 0.166                 |

| $\pi/4$ DQPSK    |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402 MHz) | 1.271                   | $1.271 \pm 1$           | 2.271                 |
| Middle(2441MHz)  | -0.197                  | $-0.197 \pm 1$          | 0.803                 |
| Highest(2480MHz) | 0.950                   | $0.950 \pm 1$           | 1.95                  |

| 8DPSK            |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402 MHz) | 1.410                   | $1.410 \pm 1$           | 2.41                  |
| Middle(2441MHz)  | -0.183                  | $-0.183 \pm 1$          | 0.817                 |
| Highest(2480MHz) | -1.813                  | $-1.813 \pm 1$          | -0.813                |

| Worst case: 8DPSK |   |                       |      |                  |                     |                    |
|-------------------|---|-----------------------|------|------------------|---------------------|--------------------|
| Channel           | Maximum Peak Conducted Output Power (dBm) | Maximum tune-up Power |      | Calculated value | Exclusion threshold | SAR Test Exclusion |
|                   |   | (dBm)                 | (mW) |                  |                     |                    |
| Highest(2402MHz)  | 1.410                                     | 2.41                  | 1.74 | 0.54             | 3.0                 | Yes                |

.....THE END OF REPORT.....