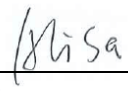

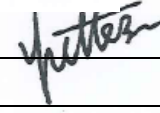


## RF Exposure Evaluation Report

|  |   |   |
|--|---|---|
| <b>Report Reference No.</b> .....:   | <b>MTEB23060297-H</b>   |   |
| <b>FCC ID</b> .....:   | <b>YMX-NSGBCPUMP</b>  |   |
| Compiled by<br>( position+printed name+signature)..:   | File administrators Alisa Luo   |  |
| Supervised by<br>( position+printed name+signature)..:   | Test Engineer Sunny Deng  |  |
| Approved by<br>( position+printed name+signature)..:   | Manager Yvette Zhou   |  |
| Date of issue.....:  | <b>Jun.30,2023</b>  |   |
| <b>Representative Laboratory Name .:</b> <b>Shenzhen Most Technology Service Co., Ltd.</b>   |   |   |
| Address .....  | No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,<br>Nanshan, Shenzhen, Guangdong, China. |   |
| <b>Applicant's name</b> .....: <b>Xiamen Comfort Science &amp; Technology Group Co.,Ltd</b>  |   |   |
| Address .....  | 168#, Qianpu Road, Siming Zone, Xiamen Fujian   |   |
| <b>Test specification/ Standard</b> .....  |   |   |
|  | <b>47 CFR Part 1.1307</b>   |   |
|  | <b>47 CFR Part 2.1093</b>   |   |
| TRF Originator.....:   | Shenzhen Most Technology Service Co., Ltd.  |   |
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| <b>Test item description</b> .....   | Massage Mattress / Air Pump   |   |
| Trade Mark .....   | N/A   |   |
| Model/Type reference.....:   | NSGBCPUMP   |   |
| Listed Models .....  | N/A   |   |
| Modulation Type .....  | GFSK  |   |
| Operation Frequency.....:  | From 2402MHz to 2480MHz   |   |
| Hardware Version.....  | V1.1  |   |
| Software Version .....   | V1.0  |   |
| Rating .....   | DC 29V(by Adapter)  |   |
| Result.....:   | PASS  |   |

**TEST REPORT**

Equipment under Test : Massage Mattress / Air Pump

Model /Type : NSGBCPUMP

Listed Models : N/A

Remark : N/A

Applicant : **Xiamen Comfort Science & Technology Group Co.,Ltd**

Address : 168#, Qianpu Road, Siming Zone, Xiamen Fujian

Manufacturer : **Xiamen Comfort Science & Technology Group Co.,Ltd**

Address : 168#, Qianpu Road, Siming Zone, Xiamen Fujian

|                     |             |
|---------------------|-------------|
| <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       | 2023.06.30 | 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

Measurement Data

BLE

| GFSK             |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402MHz)  | 5.409                   | 5.409 ± 1               | 6.409                 |
| Middle(2440MHz)  | 6.456                   | 6.456 ± 1               | 7.456                 |
| Highest(2480MHz) | 5.570                   | 5.570 ± 1               | 6.57                  |

| Worst case: GFSK |   |                       |      |                  |                     |                    |
|------------------|---|-----------------------|------|------------------|---------------------|--------------------|
| Channel          | Maximum Peak Conducted Output Power (dBm) | Maximum tune-up Power |      | Calculated value | Exclusion threshold | SAR Test Exclusion |
|                  |   | (dBm)                 | (mW) |                  |                     |                    |
| Highest(2440MHz) | 6.456                                     | 7.456                 | 5.57 | 1.74             | 3.0                 | Yes                |

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