

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTEB23090176-H**

**FCC ID**.....: **2A307-B2**

Compiled by

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Supervised by

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Approved by

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**Date of issue**.....: **Sep.19,2023**

**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**.....: **Kaatsu Global, Inc**

**Address** .....: 6506 Morningside Drive Huntington Beach, Huntington Beach,  
Florida, 92648, United States.

**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** .....: Kaatsu BFR

**Trade Mark** .....: N/A

**Model/Type reference**.....: Kaatsu B2

**Listed Models** .....: N/A

**Modulation Type** .....: GFSK

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

**Hardware Version**.....: H\_V1.1

**Software Version** .....: S\_V1.7.6

**Rating** .....: 1:DC 3.7V (by Battery)  
2:DC 5V (by USB Port)

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

**TEST REPORT**

Equipment under Test : Kaatsu BFR

Model /Type : Kaatsu B2

Listed Models : N/A

Remark : N/A

Applicant : **Kaatsu Global, Inc**

Address : 6506 Morningside Drive Huntington Beach, Huntington Beach,  
Florida, 92648, United States.

Manufacturer : **Techlang Inc.**

Address : 100-55, Daram-ro, Docheok-myeon, Gwangju-si, Gyeonggi-do,  
Republic of Korea

|                     |             |
|---------------------|-------------|
| <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       | 2023.09.19 | 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:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[ \sqrt{f(\text{GHz})} \right]$$
  
 $\leq 3.0$  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**

## Measurement Data

## BLE

| GFSK             |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2402MHz)  | 2.077                      | $2.077 \pm 1$              | 3.077                 |
| Middle(2440MHz)  | 1.425                      | $1.425 \pm 1$              | 2.425                 |
| Highest(2480MHz) | 1.148                      | $1.148 \pm 1$              | 2.148                 |

| Worst case: GFSK |                                                    |                          |      |                     |                        |                       |
|------------------|----------------------------------------------------|--------------------------|------|---------------------|------------------------|-----------------------|
| Channel          | Maximum Peak<br>Conducted Output<br>Power<br>(dBm) | Maximum tune-up<br>Power |      | Calculated<br>value | Exclusion<br>threshold | SAR Test<br>Exclusion |
|                  |                                                    | (dBm)                    | (mW) |                     |                        |                       |
| Highest(2402MHz) | 2.077                                              | 3.077                    | 2.03 | 0.63                | 3.0                    | Yes                   |

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