

RF Exposure Evaluation Report

Product : Blood Glucose Meter
Trade mark : N/A
Model/Type reference : BG-211b
Serial Number : N/A
Report Number : EED32N00024402
FCC ID : 2AWPL0004
Date of Issue : Jul. 05, 2021
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General
RF Exposure Guidance v06
Test result : PASS

Prepared for:

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Jul. 05, 2021

Check No.:4538020490

2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Jul. 05, 2021 | Original |
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4 General Information

4.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Hangzhou Sejoy Electronics & Instruments Co., Ltd. |
| Address of Applicant: | Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China |
| Manufacturer: | Hangzhou Sejoy Electronics & Instruments Co., Ltd. |
| Address of Manufacturer: | Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China |
| Factory: | Hangzhou Sejoy Electronics & Instruments Co., Ltd. |
| Address of Factory: | Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China |

4.2 General Description of EUT

| | |
|-----------------------|--|
| Product Name: | Blood Glucose Meter |
| Mode No.: | BG-211b |
| Trade Mark: | N/A |
| Bluetooth Version: | V5.0 |
| Operation Frequency: | 2402MHz~2480MHz |
| Modulation Type: | GFSK |
| Transfer Rate: | <input checked="" type="checkbox"/> 1Mbps <input type="checkbox"/> 2Mbps |
| Test Power Grade: | Default |
| Test Software of EUT: | PhyPlusKit |
| Antenna Type: | PCB antenna |
| Product Type: | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| Antenna Gain: | 0.5dBi |
| Power Supply: | Button battery: DC 3V |
| Sample Received Date: | Apr. 15, 2021 |
| Sample tested Date: | Apr. 16, 2021 to May 11, 2021 |

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

4.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
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.

Limits

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

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

5.1.2 EUT RF Exposure

Measurement Data

| GFSK mode | | | | |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test channel | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power | |
| | | | (dBm) | (mW) |
| Lowest(2402MHz) | 4.73 | 4.0±1 | 5.0 | 3.162 |
| Middle(2440MHz) | 4.72 | 4.0±1 | 5.0 | 3.162 |
| Highest(2480MHz) | 4.41 | 3.5±1 | 4.5 | 2.818 |

| Worst case: GFSK | | | | | | |
|----------------------|--|-------------------------------|---------------------------|-------|---------------------|------------------------|
| Channel | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune- up Power | | Calculated value | Exclusion threshold |
| | | | (dBm) | (mW) | | |
| Lowest (2402MHz) | 4.73 | 4.0±1 | 5.0 | 3.162 | 0.980 | 3.0 |
| Middle (2440MHz) | 4.72 | 4.0±1 | 5.0 | 3.162 | 0.988 | |
| Highest (2480MHz) | 4.41 | 3.5±1 | 4.5 | 2.818 | 0.888 | |

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N00024401.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N00024401 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***