



## Aibo Standard Technology (Shenzhen) Co., Ltd.

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# FCC TEST REPORT

Report No.....: AB25070052FW02

FCC ID.....: **2BQ94-NERO-TX2**

Applicant.....: Sound By Sweden AB

Address.....: Gustaf Mattsons Vag 2 45150 Uddevalla Sweden

Manufacturer.....: Sound By Sweden AB

Address.....: Gustaf Mattsons Vag 2 45150 Uddevalla Sweden

Product Name.....: ANC TWS Bluetooth Earphone

Trade Mark.....: Sound By Sweden

Test Model.....: NERO-TX2

Additional Model(s).....: N/A

Standard.....: FCC 47 CFR §1.1310  
FCC 47 CFR §2.1093  
KDB 447498 D01 General RF Exposure Guidance v06

Date of Receipt.....: 2025.07.03

Date of Issue.....: 2025.08.06

Test Result.....: Pass

Compiled by:  
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:  
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Jay Liu

Approved by:  
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Mic Cheng

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Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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## FCC TEST REPORT

|  |                                    |
|--|------------------------------------|
| <b>Test Report No.:</b> AB25070052FW02 | <u>2025.08.06</u><br>Date of issue |
|--|------------------------------------|

|                          |  |
|--------------------------|--|
| EUT.....                 | : ANC TWS Bluetooth Earphone                   |
| Test Model.....          | : NERO-TX2                                     |
| <b>Applicant.....</b>    | <b>: Sound By Sweden AB</b>                    |
| Address.....             | : Gustaf Mattsons Vag 2 45150 Uddevalla Sweden |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Manufacturer.....</b> | <b>: Sound By Sweden AB</b>                    |
| Address.....             | : Gustaf Mattsons Vag 2 45150 Uddevalla Sweden |
| Telephone.....           | : /  |
| Fax.....                 | : /  |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</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.

**REPORT VERSION**

| Version No. | Issue Date | Description   |
|-------------|------------|---------------|
| 01          | 2025.08.06 | Initial Issue |

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# 1. GENERAL INFORMATION

## 1.1. GENERAL DESCRIPTION OF EUT

|  |  |                 |
|--|--|-----------------|
| Product Name:  | ANC TWS Bluetooth Earphone                                   |                 |
| Trade Mark:  | Sound By Sweden  |                 |
| Test Model:  | NERO-TX2   |                 |
| Additional Model(s):                                 | /  |                 |
| Hardware Version:                                    | /  |                 |
| Software Version:                                    | /  |                 |
| Power Supply:  | DC 3.7V Supplied by Battery<br>DC 5V Charged by the USB Port |                 |
| EUT Supports Function:<br>(Provided by the customer) | 2.4GHz ISM Bands:  | Bluetooth V5. 1 |
| Test Sample(s) Number:                               | AB25070052-01 (Engineer Sample)                              |                 |
| Radio Specification Subject to this Report           |  |                 |
| Bluetooth Version:                                   | Bluetooth LE   |                 |
| Frequency Range:                                     | 2402MHz~2480MHz  |                 |
| Modulation Type:                                     | GFSK   |                 |
| Channel Spacing:                                     | 2MHz   |                 |
| Channel Number(s):                                   | 40   |                 |
| Antenna Type:  | Internal Antenna   |                 |
| Antenna Gain:  | 2.78dBi(Max.)  |                 |

## 1.2. DESCRIPTION OF SUPPORT EQUIPMENT

| Description   | Manufacturer | Model     | Serial Number   | Supplied by |
|---------------|--------------|-----------|-----------------|-------------|
| AC/DC Adapter | Xiaomi       | MDY-11-EX | SA62212LA04358J | Applicant   |

## 1.3. DESCRIPTION OF EXTERNAL I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| N/A                  | N/A      | N/A   |

#### 1.4. GENERAL DESCRIPTION OF APPLIED STANDARDS

The tests were performed according to following standards:

[FCC CFR 47 part1 1.1310](#) - Radio frequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#) -Radio frequency radiation exposure evaluation: portable devices

[FCC KDB 447498 D01 General RF Exposure Guidance v06](#)-Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

#### 1.5. DESCRIPTION OF TEST FACILITY

**Test Lab:** Aibo Standard Technology (Shenzhen) Co., Ltd.

**Address:** 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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Website: [www.Aibonorm.com](http://www.Aibonorm.com)

The test facility is recognized, certified, or accredited by the following organizations:

##### **A2LA-Lab Certificate No.: 7514.01**

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC Accredited Lab.**

Designation Number: CN1411

Test Firm Registration Number: 567066

##### **ISED Wireless Device Testing Laboratories**

CAB identifier: CN0185

## 2. RF EXPOSURE EVALUATION

### 2.1 Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.<sup>22</sup> The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.<sup>23</sup> “

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

- $f$  (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.



## 2.2 Evaluation Result

Right earphone

| Band/<br>Mode | f<br>(GHz) | Evaluation<br>Distance<br>(mm) | RF<br>Output<br>Power<br>(dBm) | Tolerance<br>(dBm) | Max<br>Tune-up<br>Power(dBm) | Max.<br>Tune-up<br>Power(mW) | Calc.<br>thresholds | SAR Test<br>Exclusion<br>Threshold |
|---------------|------------|--------------------------------|--------------------------------|--------------------|------------------------------|------------------------------|---------------------|------------------------------------|
| BLE           | 2402       | 5                              | 2.57                           | 2(±1)              | 3                            | 2                            | 0.6184670           | 3.0                                |

Left earphone

| Band/<br>Mode | f<br>(GHz) | Evaluation<br>Distance<br>(mm) | RF<br>Output<br>Power<br>(dBm) | Tolerance<br>(dBm) | Max<br>Tune-up<br>Power(dBm) | Max.<br>Tune-up<br>Power(mW) | Calc.<br>thresholds | SAR Test<br>Exclusion<br>Threshold |
|---------------|------------|--------------------------------|--------------------------------|--------------------|------------------------------|------------------------------|---------------------|------------------------------------|
| BLE           | 2402       | 5                              | 3.54                           | 3(±1)              | 4                            | 2.51                         | 0.7786038           | 3.0                                |

## 2.3 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01 v06. No SAR test is required.

\*\*\*\*\*THE END\*\*\*\*\*