

RF EXPOSURE REPORT



FCC Applicant: Sound Health Systems Inc.
650B Fremont Avenue Los Altos CA 94024
Product Name: SONU Headband
Brand Name: SONU
Model No.: SHS-HW-001
Report Number: TESA2210000389ES
FCC ID 2A8X7SHS-HW-001X
Issue Date: Oct. 24, 2022

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC KDB 447498 D04 v01.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|-------------|---------------|-------------|--------|
| TESA2210000389ES | 00 | Original | Oct. 24, 2022 | Kimmy Chiou | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

| | |
|---------------|---------------|
| Product Name: | SONU Headband |
| Brand Name: | SONU |
| Model No.: | SHS-HW-001 |
| Power Supply: | 3.8Vdc |

1.2 Antenna Information:

1.2.1 BT

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|----------|-------------------|-------------|-------------------------|
| Chip | YAGEO | ANT8010LL04R2400A | 2.4GHz | 5.46 |

Note: Antenna information is provided by the applicant.

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2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

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2.2 Measurement Result:

| Mode | Frequency (MHz) | Distance (cm) | Max. tune-up power (dBm) | Max. tune-up power (mW) | Peak gain (dBi) | ERP (dBm) | ERP (mW) | x | ERP _{20cm} (mW) | P _{th} (mW) | P or ERP /P _{th} |
|------|-----------------|---------------|--------------------------|-------------------------|-----------------|-----------|----------|-------|--------------------------|----------------------|---------------------------|
| BT | 2480 | 0.5 | 0.5 | 1.122 | 5.46 | 3.81 | 2.404 | 1.905 | 3060.00 | 2.72 | 0.884 |

~ End of Report ~

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