

RF Exposure Evaluation Report

Product : Slimbuds Bluetooth Headset
Trade mark : EAOS
Model/Type reference : SB001
Serial Number : N/A
Report Number : EED32K00096702
FCC ID : 2APROEAOS001
Date of Issue : May 04, 2018
47 CFR Part 1.1307
Test Standards : 47 CFR Part 2.1093
KDB447498D01 v06
Test result : PASS

Prepared for:

EAOS LLC

2025 Washington Ave, Philadelphia, PA, 19146, United States

Prepared by:

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Check No.:3096311401



2 Version

Version No.	Date	Description
00	May 04, 2018	Original

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4 General Information

4.1 Client Information

Applicant:	EAOS LLC
Address of Applicant:	2025 Washington Ave, Philadelphia, PA, 19146, United States
Manufacturer:	SHENZHEN AONI ELECTRONIC CO, LTD
Address of Manufacturer:	No.5 Bldg, Honghui Industrial park, 2 nd liuxian Road, Xinan street, Baoan District, Shenzhen
Factory:	SHENZHEN AONI ELECTRONIC CO, LTD
Address of Factory:	No.5 Bldg, Honghui Industrial park, 2 nd liuxian Road, Xinan street, Baoan District, Shenzhen

4.2 General Description of EUT

Product Name:	Slimbuds Bluetooth Headset
Model No.(EUT):	SB001
Trade Mark:	EAOS
EUT Supports Radios application:	BT4.1 Signal mode, 2402-2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Sample Type:	Portable Production
Test Power Grade:	N/A
Test Software of EUT:	(manufacturer declare)CSR BlueTest3
Antenna Type:	Integral Antenna
Antenna Gain:	-1.39dBi
Power Supply:	BT4.1 Signal mode, 2402-2480MHz
Conducted Peak Output Power:	3.644dBm
	The Conducted Peak Output Power data refer to the report EED32K00096701
Sample Received Date:	Apr. 20, 2018
Sample tested Date:	Apr. 20, 2018 to May 03, 2018
The tested sample(s) and the sample information are provided by the client.	

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4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 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 v05
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.

5.1.2 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:

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 3.644dBm in highest channel(2.480GHz);

The best case gain of the antenna is -1.39dBi.

EIRP= 3.644dBm + -1.39dBi. = 2.254dBm

2.254dBm logarithmic terms convert to numeric result is nearly 1.680mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(1.680\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.5291$ ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00096701 for EUT external and internal photos.

***** End of Report *****

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.