

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2404000400AT
Applicant:	ambie Corporation
Address of Applicant:	Toranomon Hills Business Tower 4F, 1-17-1 Toranomon, Minato-ku, Tokyo, 105-6404, Japan
Manufacturer:	ambie Corporation
Address of Manufacturer:	Toranomon Hills Business Tower 4F, 1-17-1 Toranomon, Minato-ku, Tokyo, 105-6404, Japan
Factory:	Hezhou Zhaoyang Electronics Technology Co., Ltd
Address of Factory:	Registered address: 1/F of Building#1 and 1-3/F of Building#2, North of Guishi North 3rd Road (phase I), Left Side of Industrial Avenue in Industrial Park, Zhongshan, Hezhou, Guangxi P.R. China Zip code:542600
Product Name:	AM-TW02
Model No.:	AM-TW02
Trade Mark:	ambie
Standard(s) :	KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2024-04-22
Date of Evaluation:	2024-04-29 to 2024-05-15
Date of Issue:	2024-06-04
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.



Ricky Liu
Manager



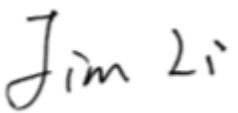
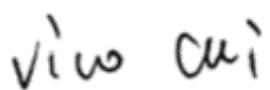
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, China EEC Laboratory

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240400040004	2024-06-04	Original

Authorized for issue by:			
	 Jim Li/Project Engineer		
	 Vico Cui/Reviewer		

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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	For earbuds DC 3.85 V powered built-in battery as below for normal working: Rated: DC 3.85 V, 0.135Wh, 35mAh DC 3.8 V charged by charging case For charging case DC 3.8 V powered built-in battery as below for normal working: Model: HJ 651535 Rated: DC 3.8 V, 310mAh, 1.178 Wh DC 5V charged by adapter
Cable(s):	For earbuds DC input pins For charging case DC output pins Type C charging ports
RF Characterize:	Please refer to test report GZCR240400040002 for BLE details Please refer to test report GZCR240400040003 for BT details

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.3 Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

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:

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

For left bud

The Maximum Conducted Peak Output Power is 2.34 dBm in channel 2.480 GHz;

2.34 dBm logarithmic terms convert to numeric result is nearly 1.714 mW

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

General RF Exposure = $(1.714 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 0.540$ ① ;

SAR requirement: $S = 3.0$ ②;

$\because ① < ②$. \therefore the SAR report is not required.

For right bud

The Maximum Conducted Peak Output Power is 2.34 dBm in channel 2.480 GHz;

2.34 dBm logarithmic terms convert to numeric result is nearly 1.714 mW

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

General RF Exposure = $(1.714 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 0.540$ ① ;

SAR requirement: $S = 3.0$ ②;

$\because ① < ②$. \therefore the SAR report is not required.

Note 1: The BLE function and Classic function can not be enable at the same time.

Note 2: Refer to report No. GZCR240400040002 & GZCR240400040003 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2404000400AT

- End of the Report -



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