

Report No.: GZCR220500064503

Page: 1 of 9 FCC ID: 2ADZH-S36W

## RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2205000645AT

**Applicant:** Dongguan Siyoto Electronics Co., Ltd.

Address of Applicant: No.10 North 7th street, Qiaodong road, Qiaotou town, Dongguan,

Guangdong, China

**Manufacturer:** Dongguan Siyoto Electronics Co., Ltd.

Address of Manufacturer: No.10 North 7th street, Qiaodong road, Qiaotou town, Dongguan,

Guangdong, China

Factory: Dongguan Siyoto Electronics Co., Ltd.

Address of Factory: No.10 North 7th street, Qiaodong road, Qiaotou town, Dongguan,

Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** WIRELESS HEADPHONES **Model No.:** HA-S36W, HA-Z37W ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: JVC

Standard(s): 47 CFR Part 1.1307

KDB447498 D01 General RF Exposure Guidance v06

**Date of Receipt:** 2022-05-24

**Date of Evaluation:** 2022-06-10 to 2022-06-10

**Date of Issue:** 2022-06-23

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager

Uniove subtraction a Testing Services Act of Guangzhou Brand Technical Services CLEC Laboratory.

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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record							
Version	Report No.	Date	Remark				
01	GZCR220500064503	2022-06-23	Original				

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



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## 2 Evaluation Summary

#### 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.

#### ♣ Declaration of EUT Family Grouping:

Model No.: HA-S36W, HA-Z37W

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model HA-S36W was tested in this report.



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below for normal working:

Model: YJ 354040

Rated: DC 3.7 V, 430mAh, 1.591Wh

DC 5 V for charging

Cable(s): Type-C charging port with unshielded cable (0.5m)

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.2 Classic

Modulation Type: GFSK, pi/4DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Technology: Frequency Hopping Spread Spectrum(FHSS)

Antenna Type: PCB Antenna

Antenna Gain: 0 dBi declared by applicant.

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.





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### 4.3 Facility

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

#### • NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### 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.

#### CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

#### • 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 General Description of Applied Standards

KDB447498 D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

### 5.2 RF Exposure Evaluation

#### 5.2.1 Limit & Test Method

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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<sup>17</sup>
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion



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#### 5.2.2 Conclusion

The Max Conducted Peak Output Power is -0.63 dBm on the middle channel 2.441 GHz

-0.63 dBm logarithmic terms convert to numeric result is nearly 0.86 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}]$ 

General RF Exposure = (0.86 mW / 5 mm) x  $\sqrt{2.441}$  GHz = 0.270 (1)

SAR requirement:

S = 3.0(2)

(1) < (2)

So the SAR report is not required.

Note: Refer to report No. GZCR220500064502 for EUT test Max Conducted Peak Output Power value.



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## 6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2205000645AT

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