

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological

Development District, Guangzhou, China 510663

Report No.: GZEM190401202502 Telephone: +86 (0) 20 82155555

+86 (0) 20 82075059 Fax: Page: 1 of 11 Email: ee.guangzhou@sgs.com

# TEST REPORT

Application No.: GZEM1904012025CR

Applicant: MMD Hong Kong Holding Limited

**Address of Applicant:** Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip

Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer: Minami Acoustics Limited

Address of Manufacturer: Shangou Industrial Park GongJiang Town, Yudu County Ganzhou City

Jiangxi 342300 China

Factory: Minami Acoustics Limited

Address of Factory: Shangou Industrial Park GongJiang Town, Yudu County Ganzhou City

Jiangxi 342300 China

**Equipment Under Test (EUT):** 

**EUT Name:** Bluetooth Headphones

Model No.: TABH305, TABH305BK/xx (xx=00-99). ¤

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

actually tested and which were electrically identical.

Trade Mark: **PHILIPS** 

Standard(s): 47 CFR Part 1.1307, Part 2.1093, KDB 447498

Date of Receipt: 2019-04-16

Date of Test: 2019-04-22 to 2019-05-09

Date of Issue: 2019-05-14

**Test Result:** Pass\*



Kobe Jian Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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In the configuration tested, the EUT complied with the standards specified above.



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# SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Revision Record								
Version Chapter Date Modifier Remark								
01		2019-05-14		Original				

Authorized for issue by:		
Tested By	Cumy Wu	2019-04-22 to 2019-05-09
	Curry_Wu /Project Engineer	Date
Checked By	Ricky Liu /Reviewer	2019-05-14  Date

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#### **Test Summary** 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass		

### **¤** Declaration of EUT Family Grouping:

Model No.: TABH305, TABH305BK/xx (xx=00-99)

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 and color.

Therefore only one model TABH305 was tested in this report.



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## 4 General Information

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

Power Supply: DC 5V for charging

DC 3.7V 530mAh rechargable battery

Test Voltage: DC 3.7V

Cable: about 0.5m unscreened USB cable

Antenna Gain 0dBi

Antenna Type Integral antenna

Channel Spacing 1MHz

Modulation Type GFSK, π/4DQPSK, 8DPSK

Number of Channels 79

Operation Frequency 2402MHz to 2480MHz

Spectrum Spread Frequency Hopping Spread Spectrum(FHSS)

Technology

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty		
1	Radio Frequency	±5.5 x 10 <sup>-8</sup>		
2	Duty cycle	±0.57%		
3	Occupied Bandwidth	±3%		
4	RF Conducted power	±0.68dB		
5	RF Power Density	±1.50dB		
6	Conducted Spurious Emissions	±1.04dB		
7	RF Radiated Power	±4.5dB (below 1GHz)		
/	nr nadialed rower	±4.8dB (above 1GHz)		
8	Dadiated Caurious Emission Test	±4.5dB (30MHz-1GHz)		
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)		
9	Temperature	±0.4℃		
10	Humidity	±1.3%		
11	Supply Voltages	±1.5%		
12	Time	±3%		

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#### 4.4 Test 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

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No tests were sub-contracted.



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### 4.5 Test Facility

The test 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 C-Tick mark as a result of our NVLAP accreditation.

#### ● 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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

#### ● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

#### 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, Jul 13, 2017.

### ● Industry Canada (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-10449 and T-11179)

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The 10m Semi-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-10449 and T-11179 respectively.

#### ● CBTL (Lab Code: TL129)

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SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions



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#### **Equipment List** 5

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19	
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18	



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#### 6 Radio Spectrum Technical Requirement

### 6.1 RF Exposure

#### 6.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

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)] ·  $[\sqrt{f(GHz)}] \le 3.0$  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 ≤ 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

#### 6.1.2 Conclusion

The Max Conducted Peak Output Powe 2.65 dBm on the lowest chann 2.48 GHz 2.65 dBm logarithmic terms convert to numeric result is nearly 1.84 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 =  $(1.84 \text{ mW} / 5 \text{ mm}) \text{ x } \sqrt{2.48 \text{ GHz}} = 0.58$ (1)

SAR requirement:

S = 3.0(2)

(1) < (2)

So the SAR report is not required.



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#### **Photographs** 7

#### **EUT Constructional Details**

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1904012025CR.

-- End of Report --



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