







RF Exposure Report

FCC ID: 2AR2STAS2508

Applicant: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip

Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip

Street, Kwun Tong, Kowloon, Hong Kong

Product(s): Wireless Speaker

Brand: PHILIPS or

Test Model(s): TAS2508WT/37

Series Model(s): See section2.1

Test Date: Apr. 22, 2024~ May 27, 2024

Issued Date: Jun. 20, 2024

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park,

HuangJiang Town, Dongguan City, People's Republic of China

Test Firm Registration No.: 915896

Standards: FCC Part 2(Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by:

Nature Lee

Reviewed by:

Dragon Long

Approved by:

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Release control record

Issue No.	Reason for change	Date Issued
24032713-01-SE-US-01	Original Release	Jun. 20, 2024

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1 General Information

1.1 General Description of EUT

Product(s)	Wireless Speaker			
Test Model(s)	TAS2508WT/37			
Sample No.	HS2405090001/ HS2405090002			
Series Model(s)	TAS2508/37, TAS2508, TAS2509WT/00, TAS2509, TAS2508xx/yy, TAS2509xx/yy(x=A-Z or Nil ,yy=00-99 or Nil for country code)			
Status of EUT	Engineering Prototype			
Power Supply Rating	DC 5V from USB or DC 3.7V from battery			
Modulation Type	GFSK, π/4 DQPSKfor FHSS			
Transfer Rate	1/2Mbps			
Operating Frequency	2402 ~ 2480MHz			
Number of Channel	79			
Output Power (Average)	-4.58dBm			
Antenna Type and Antenna Gain	PCB Antenna; -0.58dBi Gain			
Antenna Connector	N/A			
Accessory Device	USB-C Cable: Unshielded, 50cm			

Note:

- 1. Please refer to the EUT photo document (Reference No.: 24032713-01-01&02) for detailed product photo.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
- 3. For the test results, the EUT had been tested with all conditions, and only the worst case was shown in the test report.
- 4. Model difference: These models are only different from model name for trade purpose.

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2 RF exposure limit

The corresponding SAR Exclusion Threshold condition, listed below:

) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distanc ≤ 50 mm are determined by:	es
[(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 ≤ 7.5 for 10-g extremity SAR,16 where	
→ If (GHz) is the RF channel transmit frequency in GHz	
➤ ☐ Power and distance are rounded to the nearest mW and mm before calculation	
➤ ☐ 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 ar for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, the distance of 5 mm is applied to determine SAR test exclusion. 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion thresho	
is determined according to the following:	ηu

100MHz to 1500 MHz
b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm):101 mW at > 1500 M

a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at

- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3 Calculation

The antenna of this product, under normal use condition, is at less than 5mm away from the body of the user.

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4 Calculation SAR test exclusion thresholds

The measured of Maximum RF Conduted Power

Mode	Frequency (MHz)	Maximum RF Power (dBm)	
BT GFSK	2402-2480	-4.58	
BT π/4 DQPSK	2402-2480	-4.80	

The tuned Power (declared by client)

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Mode	Frequency (MHz)	Target Power (dBm)			Upper Tolerance (dBm)
BT GFSK	2402-2480	-4	±2	-6	-2
BT π/4 DQPSK	2402-2480	-4	±2	-6	-2

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power(dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	-2	5	0.199	3.0	7.5	Exempt from SAR

Conclusion: Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.



Appendix - Information on the Testing Laboratories

We, <u>Hwa-Hsing (Dongguan) Testing Co., Ltd.</u>, A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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