

RF Exposure Report

FCC ID: 2AR2STAM8905M2

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): Micro Music System

Brand(s): PHILIPS or 

Test Model(s): TAM8905M2/37

Series Model(s): TAM8905M2, TAM8905M2/05, TAM8905M2/10, TAM8905M2/yy
(yy=00-99 or nil, for country code)

Test Date: Apr. 06, 2025 ~ Apr. 22, 2026

Issued Date: Apr. 23, 2026

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

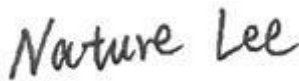
Test Firm Registration No.: 915896

Designation No.: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Standards: 2AR2STAM8905M2

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 :



Approved by :



Scott He

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Lab: [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](#)Tel: [0769-85598986](#)Web.: [www.lyns-tci.com](#)E-Mail: [service-hs@lyns-tci.com](#)Release
Ver. 1.5

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Release control record

Issue No.	Reason for change	Date issued
26040905-RF-US-06	Original Release	Apr. 23, 2026

1 General Information**1.1 General Description of EUT**

Product(s)	Micro Music System
Test Model(s)	TAM8905M2/37
Sample No.	HX2604090501, HX2604090502
Series Model(s)	TAM8905M2, TAM8905M2/05, TAM8905M2/10, TAM8905M2/yy (yy=00-99 or nil, for country code)
Status of EUT	Engineering Prototype
Power Supply Rating	AC 100-240V, 50/60HZ, 55W
Modulation Type	Bluetooth:GFSK, $\pi/4$ DQPSK, 8DPSK WiFi 2.4GHz: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA WiFi 5GHz: 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	Bluetooth: FHSS, DTS WiFi 2.4GHz: DSSS, OFDM, OFDMA WiFi 5GHz: OFDM, OFDMA
Operating Frequency	Bluetooth: 2402MHz ~ 2480 MHz WiFi 2.4GHz: 2412-2462MHz for 11b/g/n(HT20)/ax (HE20) WiFi 5GHz: 5180~5240MHz, 5260~5320MHz 5500~5700MHz, 5745~5825MHz
Maximum Output Power	Bluetooth: 10.85dBm WiFi 2.4GHz: 19.21dBm WiFi 5G: 5150 ~ 5250MHz: 10.95dBm 5250 ~ 5350MHz: 13.54dBm 5470 ~ 5725MHz: 13.73dBm 5725 ~ 5850MHz: 14.73dBm
Antenna Type	FPC Antenna
Antenna Gain	Bluetooth: 4.42dBi Gain WiFi 2.4GHz: 4.90dBi Gain WiFi 5G: 5150 ~ 5250MHz: 6.33dBi 5250 ~ 5350MHz: 6.20dBi 5470 ~ 5725MHz: 5.37dBi 5725 ~ 5850MHz: 4.61dBi
Antenna Connector	I-PEX
Accessory Device	N/A
Cable Supplied	AC cable: 140cm

Note:

1. Please refer to the EUT photo document (Reference No.: 25112601-01&02) for detailed product photo.
2. Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
3. 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.
4. Model differences: These models are only different from model name for trade purpose.

2 RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Average time (minutes)
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

Note: F = Frequency in MHz

2.1 MPE calculation formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

*Where:*Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Classification:

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

3 Calculation result of maximum conducted power

The antennas provided to the EUT, please refer to the following table:

Function	Frequency Band (MHz)	Antenna Gain (dBi)	Transmit and Receive Chain	Max Output Power(dBm)	Max Output Power(mW)	E.I.R.P (dBm)
Bluetooth	2400 ~ 2483.5	4.42	1TX,1RX	10.85	0.012162	15.27
WiFi 2.4GHz	2400 ~ 2483.5	4.90	1TX,1RX	19.21	0.083368	24.11
WiFi 5.1GHz	5150 ~ 5250	6.33	1TX,1RX	10.95	0.012445	17.28
WiFi 5.2GHz	5250 ~ 5350	6.20	1TX,1RX	13.54	0.022594	19.74
WiFi 5.6GHz	5470 ~ 5725	5.37	1TX,1RX	14.73	0.029717	20.10
WiFi 5.8GHz	5725 ~ 5850	4.61	1TX,1RX	13.73	0.023605	18.34

Function	Frequency Band (MHz)	Target Power (dBm)	Max tune up power(dBm)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
Bluetooth	2400 ~ 2483.5	16±1	17	20	0.009971	1.0
WiFi 2.4GHz	2400 ~ 2483.5	25±1	26	20	0.079201	1.0
WiFi 5.1GHz	5150 ~ 5250	18±1	19	20	0.015803	1.0
WiFi 5.2GHz	5250 ~ 5350	20±1	21	20	0.025045	1.0
WiFi 5.6GHz	5470 ~ 5725	21±1	22	20	0.031530	1.0
WiFi 5.8GHz	5725 ~ 5850	19±1	20	20	0.019894	1.0

CONCLUSION:

The BT and Wi-Fi can transmit simultaneously, but Wi-Fi 2.4G and Wi-Fi 5G can not transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

Worst situation is $(0.009971/1) + (0.079201/1) = 0.0891715 < 1$.

Therefore, the worst-case situation is 0.0891715 mW/cm2, which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

Appendix – Information on The Testing Laboratories

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), 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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