



## SAR TEST EXCLUSION EVALUATION REPORT

Product Name: Premium Mono Bluetooth headphone

Trade Mark:

PHILIPS or

Model No. /HVIN: TAL7000

TAL7000BK/37, TAL7000xx/yy (xx=AA-ZZ

**Add. Model No.:** or blank denoted different color; yy=00-99

denoted different country destination)

Report Number: 25061918607RFC-2

Test Standards: FCC 47 CFR Part 2.1093

RSS-102 Issue 6

FCC ID: 2AR2STAL7000

IC: 24589-TAL7000

Test Result: PASS

Date of Issue: August 16, 2025

Prepared for:

**MMD Hong Kong Holding Limited** Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Prepared by:

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**Version** 

Version No.	Date	Description		
V1.0	August 16, 2025	Original		





## **CONTENTS**

1.	GENE	RAL INFORMATION
	1.1	CLIENT INFORMATION
	1.2	EUT Information
	1.3	PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD
	1.4	OTHER INFORMATION
	1.5	GENERAL DESCRIPTION OF APPLIED STANDARDS
	1.6	DEVIATION FROM STANDARDS
	1.7	ABNORMALITIES FROM STANDARD CONDITIONS
	1.8	OTHER INFORMATION REQUESTED BY THE CUSTOMER
2	FOUI	PMENT LIST
3.	SAR	FEST EXCLUSION EVALUATION
	3.1	REFERENCE DOCUMENTS FOR EVALUATION
	3.2	EXEMPTION LIMITS FOR ROUTINE EVALUATION - SAR EVALUATION
	<b>U.</b> _	3.2.1 SAR TEST EXCLUSION THRESHOLD
		3.2.2 TEST PROCEDURE
	3.3	MPE CALCULATION RESULTS
		3.3.1 FOR BT
4.00	SENIDI	V 4 DUOTOO OF TEST SETUD
	PENDI	3.3.1 FOR BT X 1 PHOTOS OF TEST SETUP

Page 4 of 8 Report No.: 25061918607RFC-2

### 1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	MMD Hong Kong Holding Limited			
Address of Applicant:	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 of Manufacturer:	Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong			

#### 1.2 EUT INFORMATION

Product Name:	Premium Mono Bluetooth headphone			
Model No./ HVIN:	TAL7000			
Add. Model No.:	TAL7000BK/37, TAL7000xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination)			
Trade Mark:	PHILIPS or			
DUT Stage:	Identical Prototype			
<b>EUT Supports Function:</b> (Provided by the customer)	2.4 GHz ISM Band: Bluetooth 5.3			
Sample Received Date:	May 30, 2025			
Note:				

#### Note:

**Remark:** The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

#### 1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_EDR	
Frequency Range:	2400 MHz to 2483.5 MHz
Operation Frequency:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Antenna Type:	PCB Antenna
Antenna Gain: (Provided by the customer)	1.8 dBi
Maximum Conducted Peak Power:	2.39 dBm

The additional model TAL7000BK/37, TAL7000xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination) is identical with the test model TAL7000 except the model number for marketing purpose.

<sup>2.</sup> The ISED certification is only for the main model.



#### 1.4 OTHER INFORMATION

Test channels for BT_EDR									
Mode	Tx/Rx Frequency	Test RF Channel Lists							
Wode	1x/kx Frequency	Lowest(L)	Middle(M)	Highest(H)					
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78					
(DH1, DH3, DH5)	2402 IVITIZ (U 2400 IVITIZ	2402 MHz	2441 MHz	2480 MHz					
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78					
(2DH1, 2DH3, 2DH5)	2402 WITZ 10 2400 WITZ	2402 MHz	2441 MHz	2480 MHz					
8DPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78					
(3DH1, 3DH3, 3DH5)	2402 WITZ 10 2460 WITZ	2402 MHz	2441 MHz	2480 MHz					

#### 1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 2.1093 RSS-102 Issue 6

All test items have been performed and recorded as per the above standards

### 1.6 DEVIATION FROM STANDARDS

None.

#### 1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

#### 1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

#### 2. EQUIPMENT LIST

Please refer to the RF test report.



# 3. SAR TEST EXCLUSION EVALUATION 3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title						
1	FCC 47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices.						
2	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)						
3	KDB 447498 D04 Interim General RF Exposure Guidance v01	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES						

#### 3.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

#### 3.2.1 SAR Test Exclusion Threshold

#### 3.2.1.1 KDB 447498 D04

According to KDB 447498 D04, SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\rm th} \ ({\rm mW}) = ERP_{\rm 20 \ cm} \ ({\rm mW}) = \begin{cases} 2040f & 0.3 \ {\rm GHz} \le f < 1.5 \ {\rm GHz} \\ \\ 3060 & 1.5 \ {\rm GHz} \le f \le 6 \ {\rm GHz} \end{cases}$$
 (B. 1)

$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

f is in GHz, d is the separation distance (cm), and ERP<sub>20cm</sub> is per Formula (B.1).

Table B.2—Example Power Thresholds (mW)

					_			10103 (1			
	Distance (mm)										
		- 5	10	15	20	25	30	35	40	45	50
(z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



#### 3.2.1.2 RSS-102 Issue 6

# Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Report No.: 25061918607RFC-2

Frequenc y (MHz)	≤5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

#### 3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

#### 3.3 MPE CALCULATION RESULTS

**Note:** For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

#### 3.3.1 For BT

For BR+EDR function, operating at 2402MHz to 2480 MHz for GFSK,  $\pi/4$  DQPSK, 8DPSK

#### 3.3.1.1 Antenna Type:

PCB Antenna

#### 3.3.1.2 Antenna Gain:

2402MHz to 2480 MHz: 1.8 dBi

#### 3.3.1.3 Results for FCC 47 CFR Part 2.1093

Operating Mode	Frequency	Tune-up Power (conducted average)	Tolerance	Antenna Gain	Calculated maximum EIRP		Separation Distance	SAR Test Exclusion Threshold
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mm)	(mW)
BR+EDR	2402-2480	0	1.0	1.8	2.8	1.9055	5	2.75

So the transmitter complies with the RF exposure requirements and the SAR is not required.

#### 3.3.1.4 Results for RSS-102 Issue 6

Operating Mode	Frequency	Tune-up Power (Average)	Tolerance	Antenna Gain	Maximum EIRP		Separation Distance	SAR Test Exclusion Threshold
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mm)	(mW)
BR+EDR	2402-2480	0	1.0	1.8	2.8	1.9055	5	3

So the transmitter complies with the RF exposure requirements and the SAR is not required.



**APPENDIX 1 PHOTOS OF TEST SETUP** 

Page 8 of 8

## Report No.: 25061918607RFC-2

N/A

## **APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS**

Refer to Appendix 2 for EUT external and internal Photos.

\*\*\* End of Report \*\*\*

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