

RF EXPOSURE Test Report

Report No. : MTi250303018-0105E2
Date of Issue : 2025-04-27
Applicant : HONGKONG ZHINYU TECHNOLOGY CO.,
LIMITED
Product : Wireless TV Headphones
Model(s) : M98A, M98B, M98C, M98D, M98E, TH16A,
TH16B, TH16C, TH16D, TH16E
FCC ID : 2A598-M98A

Shenzhen Microtest Co., Ltd.

TEST REPORT

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TEST REPORT

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Test Result Certification		
Applicant	HONGKONG ZHINYU TECHNOLOGY CO., LIMITED	
Applicant Address	FLAT/RM A 12/F ZJ 300, 300 LOCKHART ROAD, WAN CHAI, HONG KONG	
Manufacturer	HONGKONG ZHINYU TECHNOLOGY CO., LIMITED	
Manufacturer Address	FLAT/RM A 12/F ZJ 300, 300 LOCKHART ROAD, WAN CHAI, HONG KONG	
Product description		
Product name	Wireless TV Headphones	
Trademark	ROSIDA, LETSACTIV, Jurnix, ZUPVIY	
Model name	M98A	
Series Model(s)	M98B, M98C, M98D, M98E, TH16A, TH16B, TH16C, TH16D, TH16E	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2025-04-17 to 2025-04-27	
Test Result	Pass	
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Reviewed by	David Lee	<i>David. Lee</i>
Approved by	Lewis Lian	<i>Lewis Lian</i>

1 RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm (20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

2 Measurement Result

2.4G:

Operation Frequency: 2402-2480MHz,
 Power density limited: 1mW/ cm²
 Antenna Type: PCB Antenna
 Antenna gain: 0dBi
 R=20cm
 $mW=10^{(dBm/10)}$
 Antenna gain Numeric= $10^{(dBi/10)}=10^{(0/10)}=1$

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain			
				(dBm)	(dBm)	(mW)	(dBi)	Numeric	(mW/cm ²)
2402	GFSK	0.69	0±1	1	1.259	0	1.00	0.0003	1
2440		0.74	0±1	1	1.259	0	1.00	0.0003	1
2480		0.40	0±1	1	1.259	0	1.00	0.0003	1

Conclusion:

Simultaneous:

For the max result: 0.0003 ≤ 1.0 test exclusion threshold, No SAR is required.

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****