



TEST REPORT EN 50332

Application No.: DNT2608035818S11874-14725
Applicant: Mid Ocean Brands B.V.
Address of Applicant: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer: Mid Ocean Brands B.V.
Address of manufacturer:: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory: /
Address of factory: /
EUT Description: Wireless headphone
Model No.: MO3153
Power Supply: N/A
Trade Mark: /
Standards: EN 50332-1: 2013, EN 50332-2: 2013
Date of issue: August 21, 2026
Test Result: Pass

Prepared By:

Greglin Zheng

Greglin Zheng

Reviewed By:

Handsome Shi

Handsome Shi

Approved By:

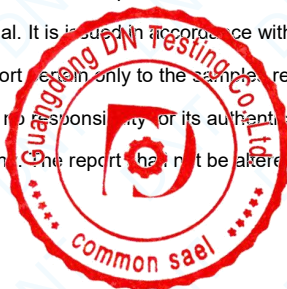
Andy Ye

Andy Ye



Note:

If there is any objection to the results or other content of this report, a written objection must be submitted to our company within fifteen (15) days of receipt. Failure to do so shall be deemed acceptance of the report and a waiver of any objection. This test report is valid only when signed by the authorized approver and affixed with the company seal. It is issued in accordance with the "Terms for Issuing Test Reports" provided in the appendix. Unless otherwise stated, the results in this report pertain only to the sample received. The information regarding the samples and the client was provided by the client. Our company assumes no responsibility for its authenticity or accuracy. No part of this report may be reproduced or excerpted without the prior written consent of our company. The report shall not be altered, used in a misleading manner, or used for any unreasonable, improper, or illegal purpose.



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Possible test case verdicts:	
- test case does not apply to the test object.... :	N/A
- test object does meet the requirement..... :	P (Pass)
- test object does not meet the requirement.... :	F (Fail)
Testing:	
Date of receipt of test item..... :	2026-8-05
Date (s) of performance of tests..... :	2026-8-10
Sample description: Sample is a Wireless headphone. The prototype function is normal after testing	
Model difference: /	
Test item: ☒ Maximum sound pressure measurement ☒ Wide band characteristic voltage measurement.	
Test Summary: According to the requirements of the standard, 5 tests were carried out on 1 samples. The test results meet the requirements of the standard. See the following page for details.	



EN 50332

Clause	Requirement + Test	Result - Remark	Verdict
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Sound system equipment: Wireless headphone and earphones associated with personal musicplayers-Maximum sound pressure level measurement methodology Part 1: General method for "one package equipment" EN 50332-1: 2013

4	Measuring principle		P
4.1	General description		P
4.2	Measuring principle		P
5	Test signal		P
5.1	General		P
5.2	Test signal level for analogue recorders		N/A
5.3	Test signal level for FM radio		N/A
5.4	Test signal level for digital music players		P
6	Measuring arrangement and test protocol		P
6.1	General		P
6.2	Headphone fit		P
6.3	Operating conditions		P
6.4	Measurements and evaluation		P

system equipment: Wireless headphone and earphones associated with personal music players-Maximum sound pressure level measurement methodology -Part 2: Matching of sets with Wireless headphone if either or both are offered separately, or are offered as one package equipment but with standardised connectors between the two allowing to combine components of different manufacturers or different design EN 50332-2: 2013

1	Scope		--
2	Normative references		--
3	Terms and Definitions		--
4	Basic conditions for specifications and measurements		P
5	Player characteristics and methods of measurement		N/A
5.1	Maximum output voltage Vm		N/A
5.2	Method of measurement and conditions		N/A
5.2.1	Input signal		N/A
5.2.2	Operating conditions		N/A
5.2.3	Method of measurement for analogue audio outputs		N/A
5.2.4	Method of measurement for digital audio output		N/A
6	Headphone/Earphone characteristics and methods of measurement		P
6.1	Measuring equipment		P
6.2	Simulated programme signal characteristic voltage		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.3	Method of measurement arrangement and conditions		P
6.3.1	Input signal		P
6.3.2	Source impedance of analogue input devices		P
6.3.3	Acoustical measurement method		P
6.3.4	Wireless headphone/earphones fit		P
6.3.5	Measurement and evaluation		P
Annex A	Example test procedure for acoustic safety of listening devices		P
A.1	Acoustic coupling between listening device's receiver and the ear simulator oh HATS(head and torso simulator)		P
A.1.1	General		P
A.1.2	Circum-aural, Supra-aural and supra-concha listening devices		P
A.1.3	Intra-concha listening devices		N/A
A.1.4	Insert type listening devices		N/A
A.2	Measurement and analysis (general)		P
A.3	Corded analogue listening device		P
A.4	Corded digital listening device		N/A
A.5	Cordless digital listening device		P
A.6	Listening device with multiple operating modes		P

**Attached Test Data:****Wired mode:**

Clause A.3 of EN50332-2		The rms level of the input signal in mV for each trial								Verdict
Earphone No.	Channel	Criterion request (mean value)	Unit	Test Result						
				1	2	3	4	5	Mean value	
#1	L	≥75	mV	80	80	81	80	80	80	P
	R	≥75	mV	107	108	108	108	108	108	P

NOTE: The average of the input signal level from 5 trials shall be equal or greater than the required value.

Condition of the apparatus during the test:

- Noise reduction system: Not applicable
- Volume control: Maximum
- Tone control: Not applicable
- The rms input level until the equivalent diffuse field (or 0-0 free field) A-weighted acoustic output reaches 94. dB(A).
- Test signal used is a programme digital noise, as defined in IEC 60268-1

**BT mode:**

Clause A.4 & A.5 of EN50332-2		LAeq (in term of dB(A)) (Corded digital listening device and Cordless digital listening device)								Verdict
Earphone No.	Channel	Criterion request (mean value)	Unit	Test Result						
				1	2	3	4	5	Mean value	
#1	L	≤100	dB(A)	85.4	85.4	85.4	85.4	85.4	85.4	P
	R	≤100	dB(A)	86.9	86.9	86.8	86.8	86.9	86.9	P

NOTE: L Aeq means A-weighted equivalent continuous sound pressure levels.

The average of the acoustic output level from 5 trails shall be less than or equal to the required value.

Condition of the apparatus during the test:

- Noise reduction system: Not applicable
- Volume control: Maximum
- Tone control: Not applicable
- Record the equivalent diffuse field (or 0-0 free field) A-weighted acoustic output level in dB(A) for each trial.
- Test signal used is a programme digital noise, as defined in IEC 60268-1



Product information:

Headset jack diameter: 3.5mm

Firmware version: N/A

Speaker resistance: DCR: $32\Omega \pm 10\%$ at 1KHz

Manufacturer: Mid Ocean Brands B.V.

Model number of speaker: N/A

Working mode: Wire mode and Wireless mode

Test Signal:

Test signal used is a programme simulation noise as defined in IEC 60268-1.

Test Equipment:

No.	Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Due.
1	Audio analyzer	A5A5-BT-DUO	A500278	Shenzhen Aptec Electronics Co., LTD	2025/09/18	2026/09/17
2	Head and shoulder simulator	HATS200	HT0007	Shenzhen Aptec Electronics Co., LTD	2026/06/11	2027/06/10



PHOTO



Figure 1: External view



Figure 2: External view



Figure 3: External view



Figure 4: Internal view

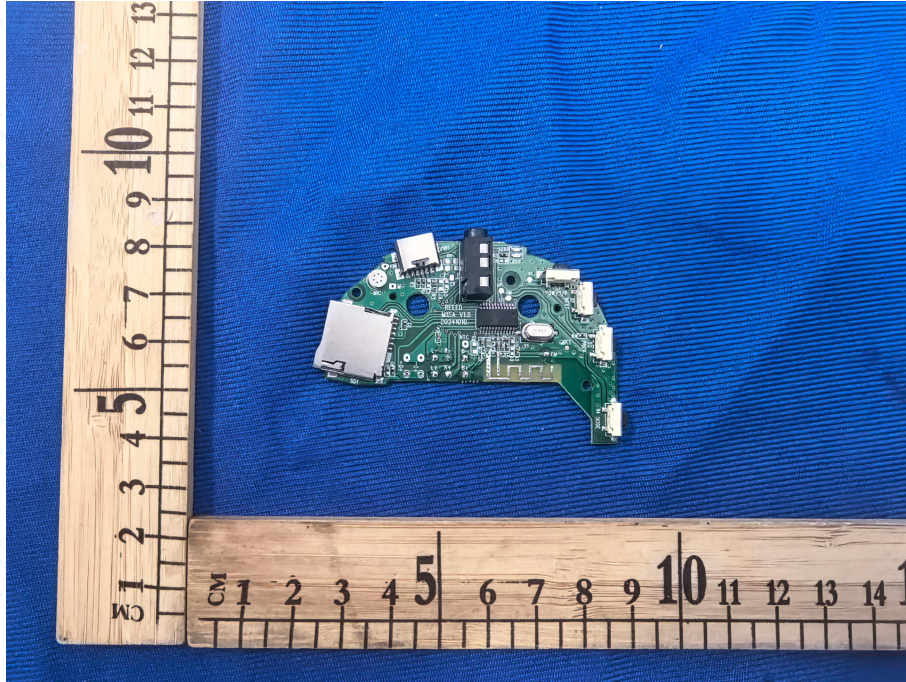


Figure 5: Internal view

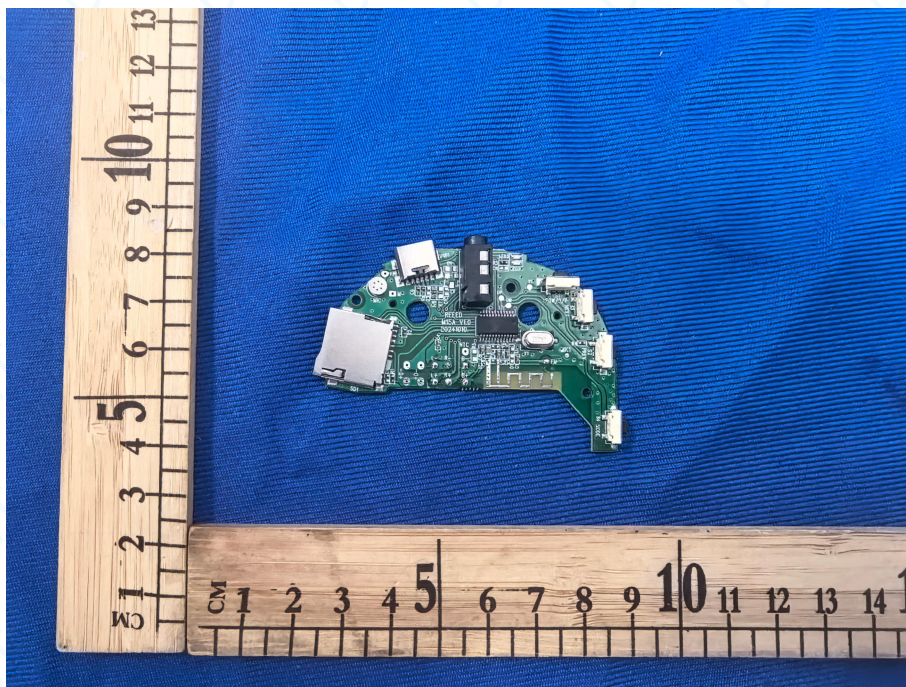


Figure 6: Internal view



Figure 7: Internal view



Figure 8: Internal view



Figure 9: Test view

---End of Test Report---