

Test Report

Report No.:MG26G3423R

Date: Aug. 17,2026

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Applicant: Mid Ocean Brands B.V.
Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer: 117486
Address: N/A

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name: Wireless headphone
Series Model: MO3153
Sample Received Date: Jul. 31, 2026
Testing Period: Jul. 31, 2026 to Aug. 05, 2026

Test Requested

As requested by the applicant, refer to attached page(s) for details.

Approved by:



Jack Leung Technical Manager



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Summary of Test Results:

Test Standard	Conclusion
Selected test (s) in the selected parts as requested by client, Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC.	
-European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 50 on Polycyclic-aromatic hydrocarbons (PAHs) content.	Pass

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Test Method:

1. PAHs content- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013

Test Method: With reference to AfPS-GS-2019-01: PAK

Test Instrument: Gas Chromatographic-Mass Spectrometric (GC-MS)

Test Item(s)	Unit	MDL	Limit	Test Result(s)			
				1+4+5	2+8	3+15	6+13
Benzo[a]anthracene (BaA)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Chrysene (CHR)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[b]fluoranthene (BbF)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[k]fluoranthene (BkF)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[a]pyrene (BaP)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
(Dibenzo[a,h]anthracene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[e]pyrene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Sum of PAHs	mg/kg	--	10	N.D.	N.D.	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Test Result(s)			
				7+10+11	9+14	12+18	16+17
Benzo[a]anthracene (BaA)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Chrysene (CHR)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[b]fluoranthene (BbF)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[k]fluoranthene (BkF)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[a]pyrene (BaP)	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
(Dibenzo[a,h]anthracene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Benzo[e]pyrene	mg/kg	0.2	1	N.D.	N.D.	N.D.	N.D.
Sum of PAHs	mg/kg	--	10	N.D.	N.D.	N.D.	N.D.

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Remark:

- N.D. = Not detected (lower than MDL)
- MDL = Method Detection Limit
- mg/kg = milligram per kilogram
- The PAHs content limit is Category 1

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Remark:

(EU) No 1272/2013 amending Item No 50 of Annex XVII of REACH Regulation (EC) 1907/2006

Parameter (mg/kg)	Category 1	Category 2
	Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use Such articles include amongst others: - sport equipment such as bicycles, golf clubs, racquets. - household utensils, trolleys, walking frames - tools for domestic use - clothing, footwear, gloves and sportswear - watch-straps, wrist-bands, masks, head-bands	Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use
Benzo[a]pyrene	<1	<0.5
Benzo[e]pyrene	<1	<0.5
Benzo[a]anthracene	<1	<0.5
Benzo[b]fluoranthene	<1	<0.5
Benzo[j]fluoranthene	<1	<0.5
Benzo[k]fluoranthene	<1	<0.5
Chrysene	<1	<0.5
Dibenzo[a,h]anthracene	<1	<0.5

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Sample Description:

No.	Description
1	Silver printed black plastic(case)
2	Black fabric(cover)
3	Black synthetic leather(earmuffs)
4	Black plastic(USB plug case)
5	Black plastic(Type-C plug case)
6	Black soft plastic(wire jacket)
7	Black plastic(zipper teeth)
8	Black fabric(zipper tape)
9	Black coating(zipper)
10	Silver printed white plastic(case)
11	White plastic(USB plug case)
12	White plastic(Type-C plug case)
13	White soft plastic(wire jacket)
14	White coating(zipper)
15	White synthetic leather(earmuffs)
16	White fabric(zipper tape)
17	White fabric(cover)
18	White plastic(zipper teeth)

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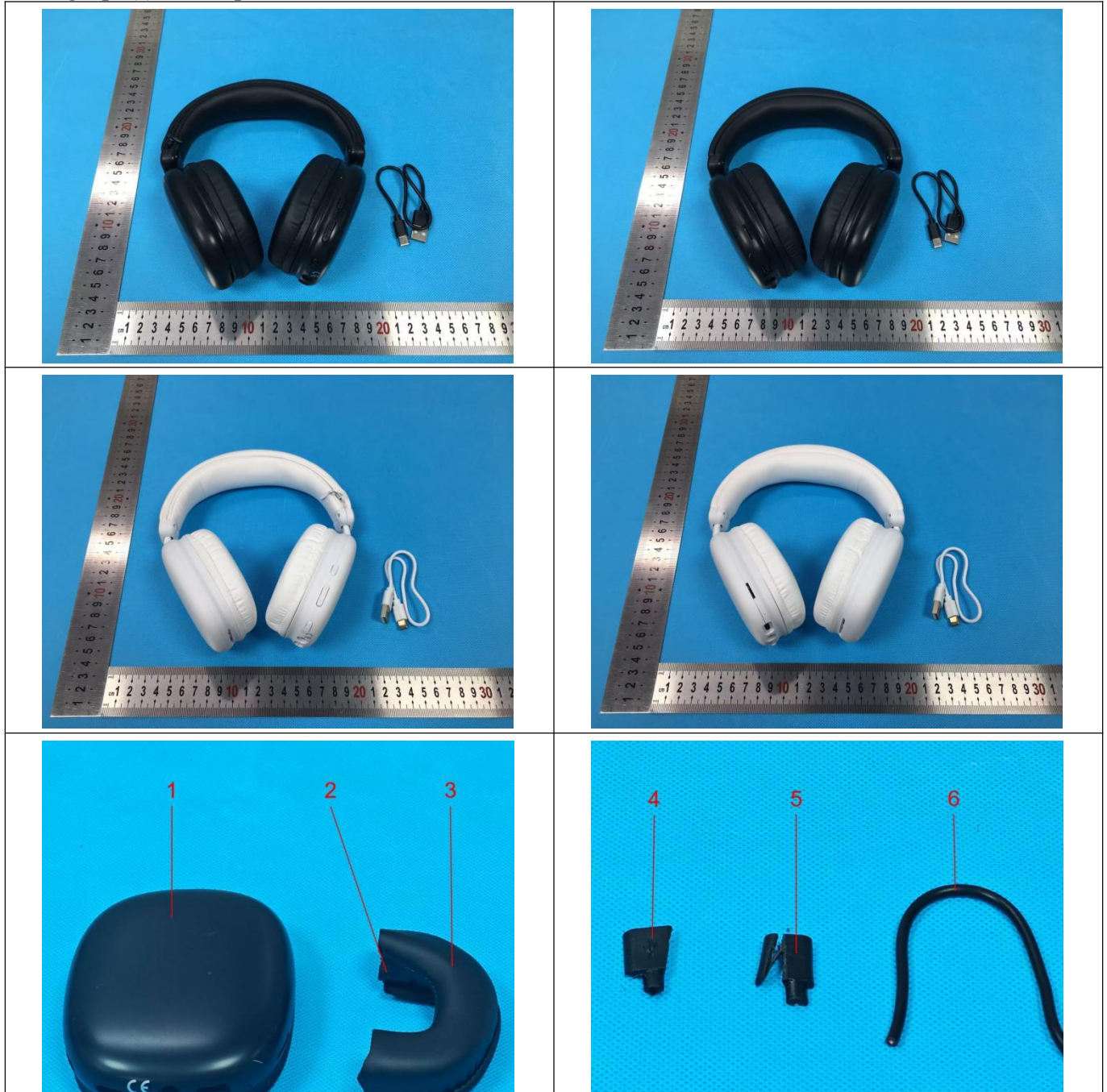
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Photograph(s) of Sample:



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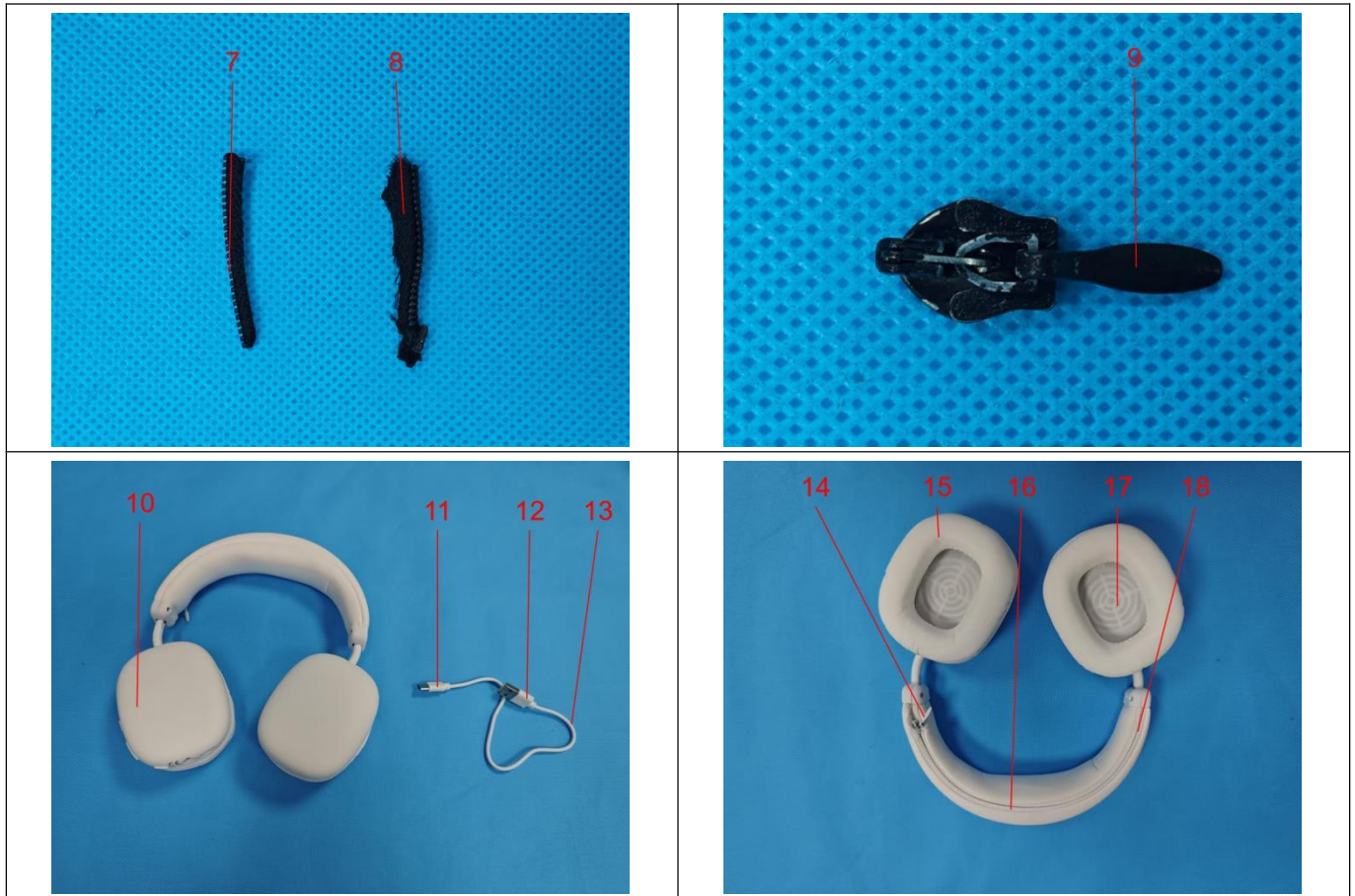
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Report No.: DNT2608035818C11873-14730

Applicant: Mid Ocean Brands B.V.

Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street,
Cheung Sha Wan, Kowloon, Hong Kong.

The samples and sample information for the following tests are provided and confirmed by the applicant

Product description: Wireless headphone

Model No.: MO3153

Manufacturer: 117486

Address: N/A

Sample received date: 2026.08.03

Sample testing period: 2026.08.03 to 2026.08.11

Report issued date: 2026.08.17

Test results: Please refer to next page(s).

Compiled By:

Limitor Xu

Limitor xu

Reviewed By:

Tina Luo

Tina Luo

Approved By:

Boly Peng

Boly Peng

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.



Guangdong DN Testing Co., Ltd.

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**Test Results:**

Test Requested	Conclusion
European regulation (EC) No. 1907/2006 (REACH) annex XVII entry 43 on requirements of Azocolourants and Azodyes content	PASS
As specified by applicant, test colorfastness to crocking on submitted sample	PASS



**Sample Description:**

No.	Description
A1	Wireless headphone
1	Black soft plastic with gray fabric backing (surface of headband & ear cups)
2	Black fabric (zipper tape)
3	Black fabric (inner,ear cups)



**Result:****Azocolourants and azodyes test**

Test method : EN ISO 14362-1:2017 & EN ISO 14362-3:2017

Instrument used for analysis: GC-MS

Test item(s)	CAS No.	Limit (mg/kg)	MDL (mg/kg)	Test results (mg/kg)		
				1	2	3
4-Aminodiphenyl	92-67-1	30	5	N.D	N.D	N.D
Benzidine	92-87-5	30	5	N.D	N.D	N.D
4-Chloro-O-Toluidine	95-69-2	30	5	N.D	N.D	N.D
2-Naphthylamine	91-59-8	30	5	N.D	N.D	N.D
O-Aminoazotoluene	97-56-3	30	5	N.D	N.D	N.D
5-nitro-o-toluidine	99-55-8	30	5	N.D	N.D	N.D
4-Chloroaniline	106-47-8	30	5	N.D	N.D	N.D
4-methoxy-m-phenylenediamine	615-05-4	30	5	N.D	N.D	N.D
4,4'-Diaminodiphenylmethane	101-77-9	30	5	N.D	N.D	N.D
3,3'-Dichlorobenzidine	91-94-1	30	5	N.D	N.D	N.D
3,3'-Dimethoxybenzidine	119-90-4	30	5	N.D	N.D	N.D
3,3'-Dimethylbenzidine	119-93-7	30	5	N.D	N.D	N.D
4,4'-methylenedi-o-toluidine	838-88-0	30	5	N.D	N.D	N.D
P-Cresidine	120-71-8	30	5	N.D	N.D	N.D
4,4'-Methylene-Bis(2-Chloro-aniline)	101-14-4	30	5	N.D	N.D	N.D
4,4'-Oxydianiline	101-80-4	30	5	N.D	N.D	N.D
4,4'-Thiodianiline	139-65-1	30	5	N.D	N.D	N.D
O-Toluidine	95-53-4	30	5	N.D	N.D	N.D
4-methyl-m-phenylenediamine	95-80-7	30	5	N.D	N.D	N.D
2,4,5-Trimethylaniline	137-17-7	30	5	N.D	N.D	N.D
O-Anisidine	90-04-0	30	5	N.D	N.D	N.D
4-Amino azobenzene	60-09-3	30	5	N.D	N.D	N.D
Aniline	62-53-3	30	5	N.D	N.D	N.D
1,4-phenylenediamine	106-50-3	30	5	N.D	N.D	N.D
Conclusion	--	--	--	PASS	PASS	PASS

Note:

1. mg/kg = milligram per kilogram = ppm
2. MDL = Method Detection Limit
3. N.D = Not Detected (less than MDL)
4. The limit for composite test should be divided by the mixed number.
5. Results shown of additional Amines Aniline and 1,4-phenylenediamine are reported for reference only.

**Colorfastness to Crocking**

Test method: ISO 105-X12:2016

Test sample	Client's Requirement(s)	Test result (Grade)		Conclusion(s)
A-black synthetic leather	2-3	Dry staining	4-5	PASS
		Wet staining	4-5	PASS
A-inner fabric	2-3	Dry staining	4-5	PASS
		Wet staining	4-5	PASS
A-zipper tape	2-3	Dry staining	4-5	PASS
		Wet staining	4-5	PASS

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



Photo(s) of tested sample(s)



A-Wireless headphone





Below photo(s) was/were for reference only (required by applicant)



*** End of Report ***

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