



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Report No.** ..... : WTF23F10227430A3C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 118144  
**Sample Name** ..... : ABS TWS earbuds  
**Sample Model** ..... : MO2206  
**Test Requested** ..... : Refer to next page (s)  
**Test Conclusion** ..... : **Pass** (Please refer to next pages for details)  
**Date of Receipt sample** ..... : 2023-10-24 & 2023-12-05 & 2023-12-27 & 2024-01-10  
**Testing period** ..... : 2023-10-24 to 2024-01-24  
**Date of Issue** ..... : 2024-01-24  
**Test Result** ..... : Refer to next page (s)  
**Note** ..... : As specified by client, only test the designated sample.

**Prepared By:**

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Signed for and on behalf of  
Waltek Testing Group (Foshan) Co., Ltd.

Swing.Liang



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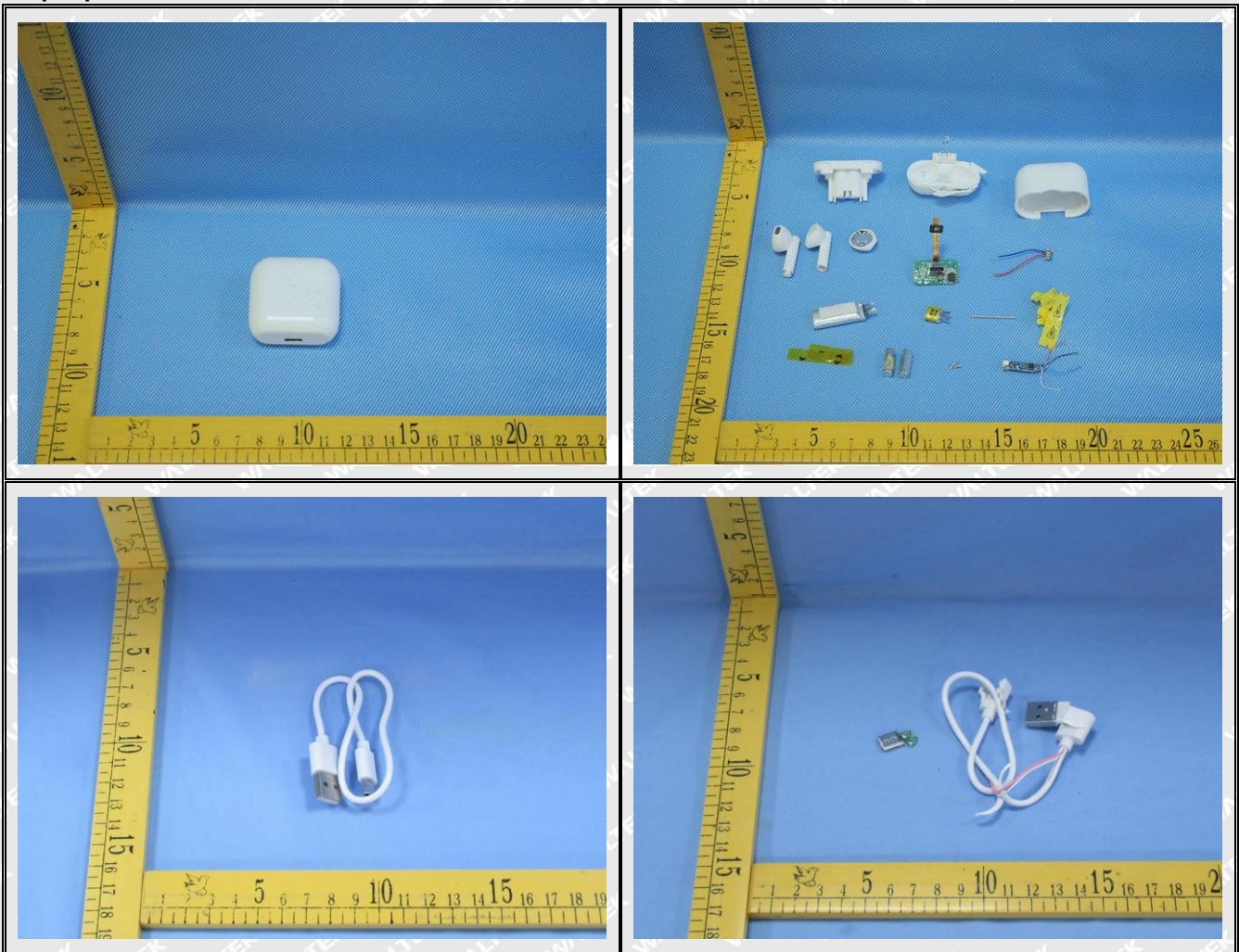


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**Summary**

| Item No. | Test Requested   | Test Conclusion |
|----------|--|-----------------|
| 1        | Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013. | <b>Pass</b>     |
| 2        | Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)  | <b>Pass</b>     |

**Sample photo:**







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**Test Results:**

**1) Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

| Test Items                                  | Unit  | Results     |             | LOQ | Limit |
|---|-------|-------------|-------------|-----|-------|
|   |       | No.38       | No.39       |     |       |
| Benzo(a)anthracene (BaA)                    | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Chrysene (CHR)                              | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Benzo[b]fluoranthene (BbFA)                 | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Benzo[k]fluoranthene (BkFA)                 | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Benzo(a)pyrene (BaP)                        | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Dibenzo[a,h]anthracene (DBA <sub>h</sub> A) | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Benzo[j]fluoranthene (BjFA)                 | mg/kg | ND          | ND          | 0.2 | 1.0   |
| Benzo[e]Pyrene (BeP)                        | mg/kg | ND          | ND          | 0.2 | 1.0   |
| <b>Conclusion</b>                           | --    | <b>Pass</b> | <b>Pass</b> | --  | --    |

**Note:**

- (1) ND = Not Detected or lower than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components 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, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components 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, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.



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**2) Nickel release**

Test method: With reference BS EN1811: 2011+A1:2015, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

| Item No. | Sample Area (cm <sup>2</sup> ) | Volume of Test Solution(ml) | Nickel release (µg/cm <sup>2</sup> /week) |         |         |         | Conclusion |
|----------|--------------------------------|-----------------------------|---|---------|---------|---------|------------|
|          |                                |                             | Trial 1                                   | Trial 2 | Trial 3 | Average |            |
| No.40    | 6.75                           | 10                          | ND  | ND      | ND      | ND      | Pass       |

**Note:**

- (1) µg/cm<sup>2</sup>/week = microgram per square centimetre per week
- (2) Limit of quantitation = 0.05 µg/cm<sup>2</sup>/week
- (3) ND = Not Detected or lower than limit of quantitation
- (4) Interpretation of test results:

| Type of sample   | Nickel Release(µg/cm <sup>2</sup> /week) |       |
|--|--|-------|
|  | Pass                                     | Fail  |
| Other components in direct and prolonged contact with the skin   | <0.88                                    | ≥0.88 |
| Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body) | <0.35                                    | ≥0.35 |

**Description for Specimen:**

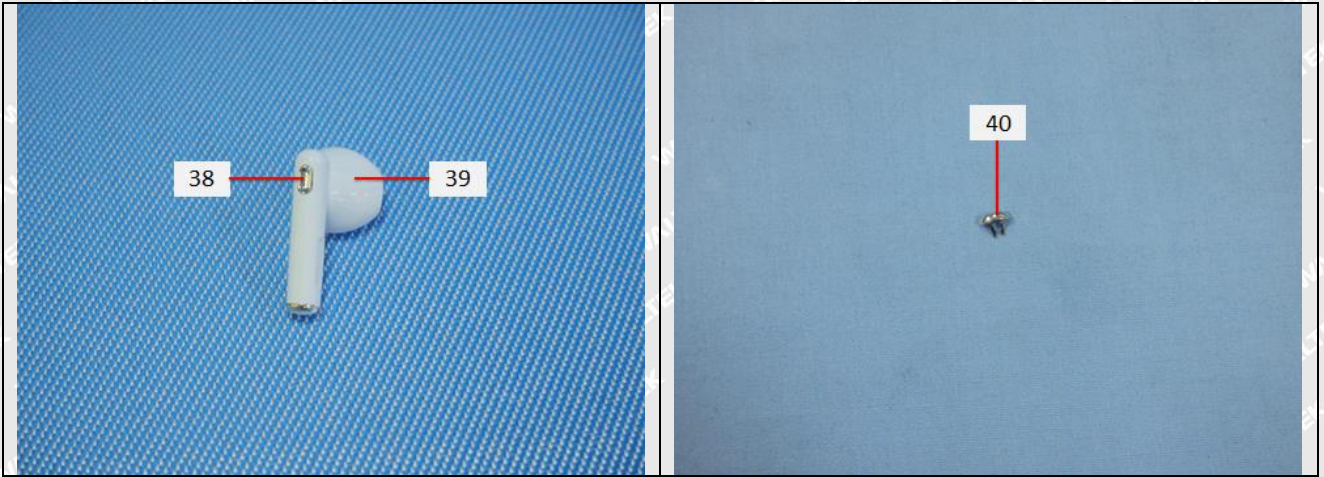
| Specimen No. | Specimen Description                    |
|--------------|---|
| 38           | White plastic part with silvery plating |
| 39           | White plastic shell                     |
| 40           | Silvery metal shell                     |





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**Photograph of parts tested:**



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Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
3. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver;
4. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which Waltek hasn't verified;
5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.
6. The sample material information (Model No. information) is provided by client, not verified by test laboratory. The samples of reference Model No. are not tested. Test laboratory not responsible for the accuracy, appropriateness, completeness and authenticity of the information provided by client.

===== End of Report =====

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