# TEST REPORT

| | |
|---|---|
| Report No.: | BCTC2509452111-29R |
| Applicant: | Zhiwei Robotics Corp. |
| Product Name: | Boson: Motion Sensor i13 |
| Test Model: | BOS0013 |
| Tested Date: | 2025-09-18 to 2025-10-08 |
| Issued Date: | 2025-10-28 |

**Shenzhen BCTC Testing Co., Ltd.**

| | |
|---|---|
| Product Name | Boson: Motion Sensor i13 |
| Test Model | BOS0013 |
| Applicant | Zhiwei Robotics Corp. |
| Address | Unit 01, 26/F, Al ShanghaiT&ITower, No. 1699Zhongke Road, Pudong District, Shanghai, P.R.China |
| Manufacturer | Zhiwei Robotics Corp. |
| Address | Unit 01, 26/F, Al ShanghaiT&ITower, No. 1699Zhongke Road, Pudong District, Shanghai, P.R.China |
| Trademark | / |
| Sample Received Date | 2025-09-18 |
| Test Type | Entrustment Test |
| Test Method | Please refer to the following page(s). |
| Test Requested | As specified by client, to test the 45 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) content in the submitted sample. |
| Test Conclusion | The test results show that the submitted sample comply with the Australian Industrial Chemicals Environmental Management (Registration) Act 2022 (IChEMS Register). |

Prepared by: Willa

Willa

Approved by: Saher Chen

Saher Chen

## Test Method:

| Tested Item(s) | Test Method | Measured Equipment(s) |
|---|---|---|
| Perfluoroalkyl and polyfluoroalkyl substances (PFAS) | EN 17681-1:2025 | LC-MS/MS |

## Tested Sample/Part Description:

1 Blue plastic
2 Beige plastic
3 White coating
4 Milky white plastic

## Test Result(s):

| Substance Name | CAS No. | Result(s) Unit (ppb) | | | |
|---|---|---|---|---|---|
| | | 1*1 | 2*2 | 3*2 | 4 |
| All tested PFAS in list | -- | N.D. | N.D. | N.D. | N.D. |

| | |
|---|---|
| Maximum Allowable Limit | PFOS and its salts: 25ppb (sum)<br>PFOS-related substances: 1000ppb (sum)<br>PFOA and its salts: 25ppb (sum)<br>PFOA-related substances: 1000ppb (sum)<br>Perfluorohexane-1-sulphonic acid (PFHxS) and its salts: 25ppb (Sum)<br>PFHxS-related substances: 1000ppb (Sum)<br>C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts: 25ppb (Sum)<br>C9-C14 PFCA-related substances: 260ppb (Sum)<br>PFHxA and its salts: 25ppb (sum)<br>PFHxA-related substances: 1000ppb (sum)<br>Other Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS): Show Data only |

**Note:**

-N.D. = Not Detected

-ppb = part per billion

-Method detection limit:

PFOS and its salts: 25ppb (sum)

PFOS-related substances: 1000ppb (sum)

PFOA and its salts: 25ppb (sum)

PFOA-related substances: 1000ppb (sum)

Perfluorohexane-1-sulphonic acid (PFHxS) and its salts: 25ppb (Sum)

PFHxS-related substances: 1000ppb (Sum)

C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts: 25ppb (Sum)

-*1The result data of sample 1 in this report is the copy of the result data of sample 1 in this report: BCTC2509452111-15R.

-*2The result data of sample 2 and 3 in this report are the copy of the result data of sample 2 and 3 in this report: BCTC2509452111-21R.

**Substances in the reporting list of PFAS:**

| No. | Group Name | Substance Name | CAS No. |
|---|---|---|---|
| 1 | PFOS and its salts | Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 |
| 2 | | Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N($C_{10}H_{21}$)$_2$($CH_3$)$_2$) | 251099-16-8 |
| 3 | PFOS-related substances | N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA) | 4151-50-2 |
| 4 | | 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE) | 1691-99-2 |
| 5 | | Perfluoro-1-octanesulfonyl fluoride (POSF) | 307-35-7 |
| 6 | | N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA) | 31506-32-8 |
| 7 | | 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE) | 24448-09-7 |
| 8 | | Perfluorooctane sulfonamide (PFOSA) | 754-91-6 |
| 9 | | 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) | 57678-03-2 |
| 10 | PFOA and its salts | Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| 11 | PFOA-related substances | 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) | 39108-34-4 |
| 12 | | 2H,2H-Perfluorodecanoic acid ($H_2$PFDA) | 27854-31-5 |
| 13 | PFHxS and its salts | Perfluorohexane Sulfonic acid (PFHxS) | 355-46-4 |
| 14 | C9-C14 PFCAs and their salts | Perfluorononanoic Acid (PFNA, C9-PFCA) | 375-95-1 |
| 15 | | Perfluoroundecanoic Acid (PFUnA, C11-PFCA) | 2058-94-8 |
| 16 | | Perfluorotridecanoic Acid (PFTrDA, C13-PFCA) | 72629-94-8 |
| 17 | | Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA) | 172155-07-6 |
| 18 | | Perfluorodecanoic Acid (PFDA, C10-PFCA) | 335-76-2 |
| 19 | | Perfluorododecanoic Acid (PFDoA, C12-PFCA) | 307-55-1 |
| 20 | | Perfluorotetradecanoic Acid (PFTeDA, C14-PFCA) | 376-06-7 |
| 21 | C9-C14 PFCAs related substances | 2-aminotoluene-5-sulfonic acid | 34598-33-9 |
| 22 | | 1H,1H,2H,2H-Perfluoro-1-dodecanol | 865-86-1 |
| 23 | | 1H,1H,2H,2H-Perfluorododecanesulphonicacid | 120226-60-0 |
| 24 | | 2-Perfluorooctylethanol (8:2 FTOH) | 678-39-7 |
| 25 | PFHxA and its salts | Perfluorohexanoic Acid (PFHxA, C6-PFCA) | 307-24-4 |

| No. | Group Name | Substance Name | CAS No. |
|---|---|---|---|
| 26 | PFHxA-related substances | 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS) | 27619-97-2 |
| 27 | | 1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH) | 647-42-7 |
| 28 | Other Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) | 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyloctane-1- sulfonamide | 375-22-4 |
| 29 | | Perfluoropentanoic acid | 2706-90-3 |
| 30 | | Perfluoroheptanoic acid | 375-85-9 |
| 31 | | Perfluoro(2-methyl-3-oxahexanoic) acid | 13252-13-6 |
| 32 | | Nonafluoro-1-butanesulfonic Acid | 375-73-5 |
| 33 | | Perfluoroheptanesulfonic Acid | 375-92-8 |
| 34 | | Henicosafluorodecanesulphonic acid | 335-77-3 |
| 35 | | 1H,1H,2H,2H-Perfluoro-1-hexanol | 2043-47-2 |
| 36 | | 7H-Dodecafluoroheptanoic acid | 1546-95-8 |
| 37 | | 1H,1H,2H,2H-Perfluorohexanesulphonic acid | 757124-72-4 |
| 38 | | Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na) | 2250081-67-3 |
| 39 | | 8:2 Fluorotelomer phosphate diester (8:2 diPAP) | 678-41-1 |
| 40 | | 2H-Perfluoro-2-decenoic acid (8:2 FTUCA) | 70887-84-2 |
| 41 | | Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS-K) | 73606-19-6 |
| 42 | | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 763051-92-9 |
| 43 | | 1H,1H-Perfluorooctylamine (PFA) | 307-29-9 |
| 44 | | Perfluorooctylphosphoric acid (PFOPA) | 40143-78-0 |
| 45 | | Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) hydrogen phosphate (6:2 diPAP) | 57677-95-9 |

## Photograph of Sample

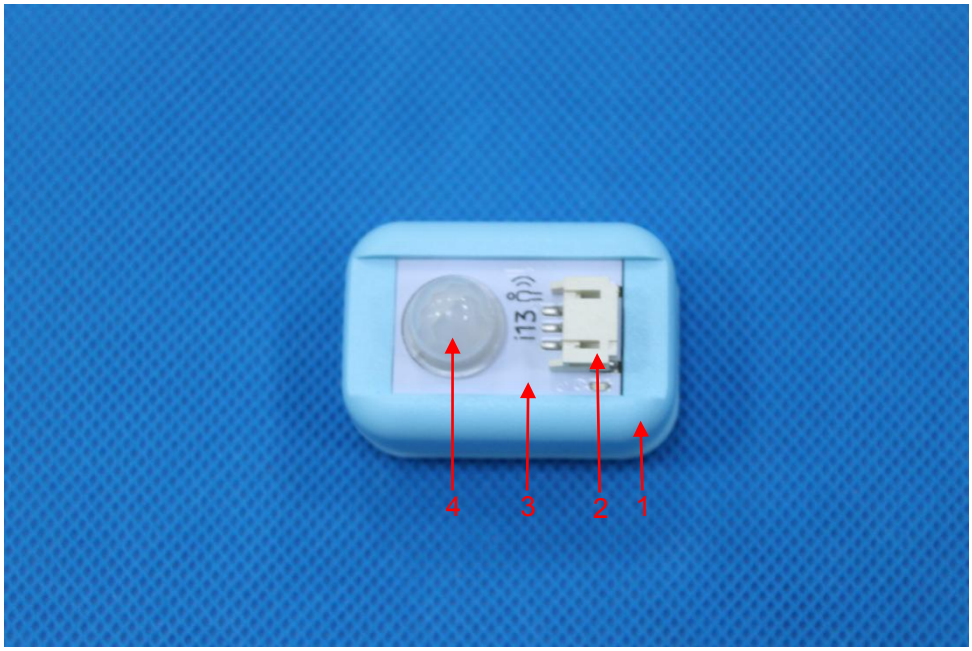


Fig.1

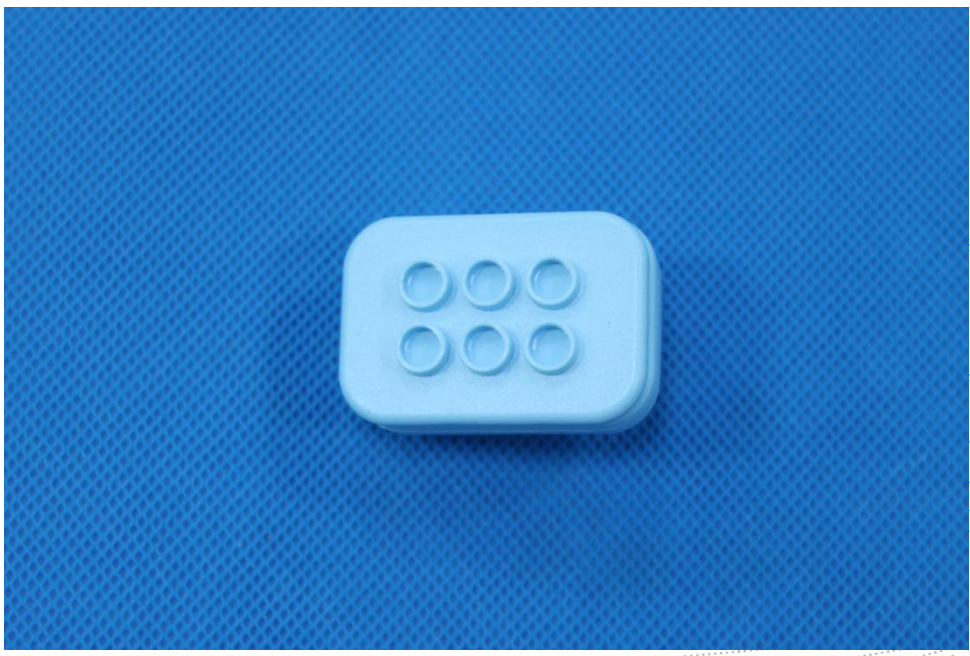

Fig.2

# STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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