



# Test Report

Report No. A2240413041116001

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**Company Name** DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.  
**shown on Report**  
**Address** NO.28, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P. R. CHINA

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

**Sample Name** Melf Resistor  
**Sample Received Date** Jul. 15, 2024  
**Testing Period** Jul. 15, 2024 to Jul. 24, 2024

**Test Requested** As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

**Test Method/Test Result(s)** Please refer to the following page(s).

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**Conclusion**

| Tested Sample    | According to standard/directive                        | Result |
|------------------|--|--------|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS   |

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PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Approved by

Date

Jul. 24, 2024

Hill Zheng  
Technical Manager

No. R677502633

Centre Testing International Group Co., Ltd.

Inspection &amp; Testing Services

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Test Method

| Tested Item(s)                            | Test Method  | Measured Equipment(s) |
|---|--|-----------------------|
| Lead (Pb)                                 | IEC 62321-5:2013   | ICP-OES               |
| Cadmium (Cd)                              | IEC 62321-5:2013   | ICP-OES               |
| Mercury (Hg)                              | IEC 62321-4:2013+AMD1:2017 CSV   | ICP-OES               |
| Hexavalent Chromium (Cr(VI))              | IEC 62321-7-2:2017 and/or determination of<br>Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES        |
| Polybrominated Biphenyls (PBBs)           | IEC 62321-6:2015   | GC-MS                 |
| Polybrominated Diphenyl Ethers<br>(PBDEs) | IEC 62321-6:2015   | GC-MS                 |
| Phthalates (DBP, BBP, DEHP, DIBP)         | IEC 62321-8:2017   | GC-MS                 |

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## Test Result(s)

| Tested Item(s)               | Result | MDL      | Limit      |
|------------------------------|--------|----------|------------|
|                              | 1      |          |            |
| Lead (Pb)                    | N.D.   | 10 mg/kg | 1000 mg/kg |
| Cadmium (Cd)                 | N.D.   | 10 mg/kg | 100 mg/kg  |
| Mercury (Hg)                 | N.D.   | 10 mg/kg | 1000 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D.   | 20 mg/kg | 1000 mg/kg |

| Tested Item(s)                  | Result | MDL       | Limit      |
|---------------------------------|--------|-----------|------------|
|                                 | 1      |           |            |
| Polybrominated Biphenyls (PBBs) |        |           |            |
| Monobromobiphenyl               | N.D.   | 100 mg/kg | 1000 mg/kg |
| Dibromobiphenyl                 | N.D.   | 100 mg/kg |            |
| Tribromobiphenyl                | N.D.   | 100 mg/kg |            |
| Tetrabromobiphenyl              | N.D.   | 100 mg/kg |            |
| Pentabromobiphenyl              | N.D.   | 100 mg/kg |            |
| Hexabromobiphenyl               | N.D.   | 100 mg/kg |            |
| Heptabromobiphenyl              | N.D.   | 100 mg/kg |            |
| Octabromobiphenyl               | N.D.   | 100 mg/kg |            |
| Nonabromobiphenyl               | N.D.   | 100 mg/kg |            |
| Decabromobiphenyl               | N.D.   | 100 mg/kg |            |

| Tested Item(s)                         | Result | MDL       | Limit      |
|--|--------|-----------|------------|
|  | 1      |           |            |
| Polybrominated Diphenyl Ethers (PBDEs) |        |           |            |
| Monobromodiphenyl ether                | N.D.   | 100 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether                  | N.D.   | 100 mg/kg |            |
| Tribromodiphenyl ether                 | N.D.   | 100 mg/kg |            |
| Tetrabromodiphenyl ether               | N.D.   | 100 mg/kg |            |
| Pentabromodiphenyl ether               | N.D.   | 100 mg/kg |            |
| Hexabromodiphenyl ether                | N.D.   | 100 mg/kg |            |
| Heptabromodiphenyl ether               | N.D.   | 100 mg/kg |            |
| Octabromodiphenyl ether                | N.D.   | 100 mg/kg |            |
| Nonabromodiphenyl ether                | N.D.   | 100 mg/kg |            |
| Decabromodiphenyl ether                | N.D.   | 100 mg/kg |            |

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| Tested Item(s)                                      | Result | MDL      | Limit      |
|---|--------|----------|------------|
|   | 1      |          |            |
| Phthalates (DBP, BBP, DEHP, DIBP)                   |        |          |            |
| Dibutyl phthalate (DBP)<br>CAS#:84-74-2             | N.D.   | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate (BBP)<br>CAS#:85-68-7        | N.D.   | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate<br>(DEHP) CAS#:117-81-7 | N.D.   | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate (DIBP)<br>CAS#:84-69-5         | N.D.   | 50 mg/kg | 1000 mg/kg |

## Sample/Part Description

| No. | CTI Sample ID | Description                  |
|-----|---------------|------------------------------|
| 1   | 1             | Blue body(Tested as a whole) |

**Remark:**

- The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

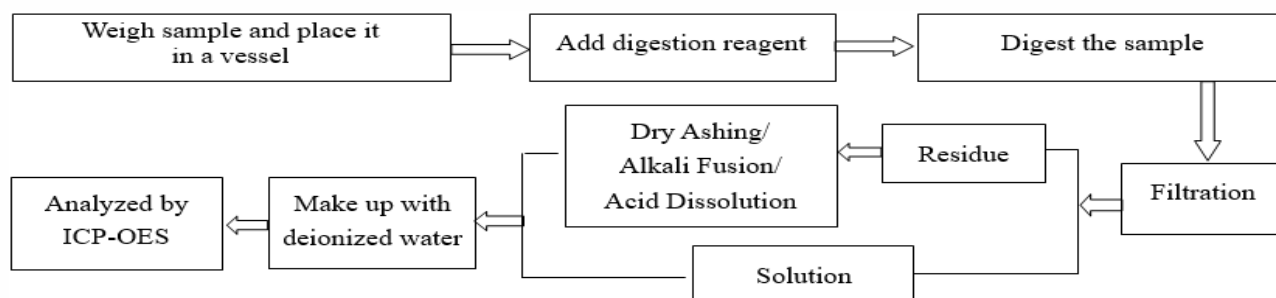
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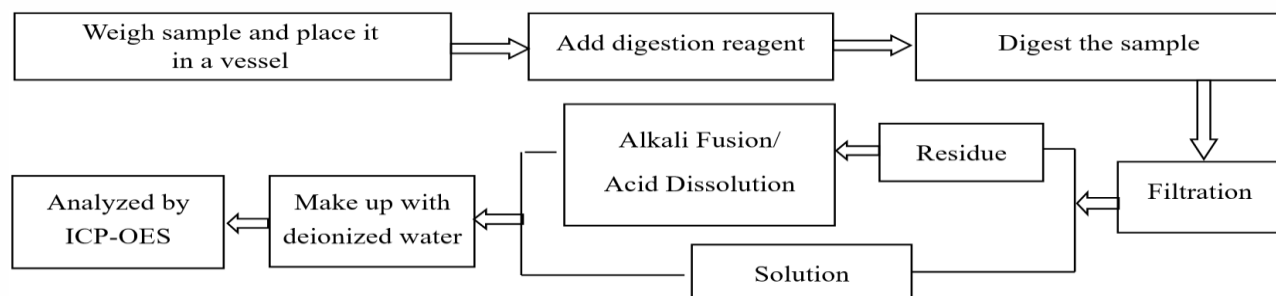
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## Test Process

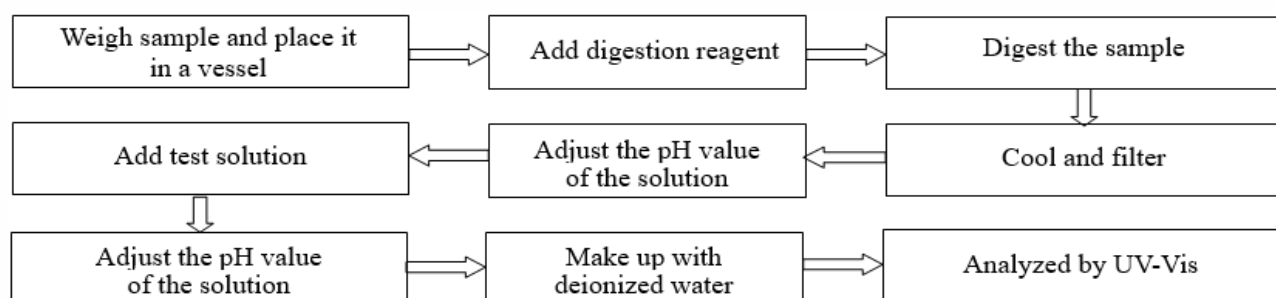
### 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



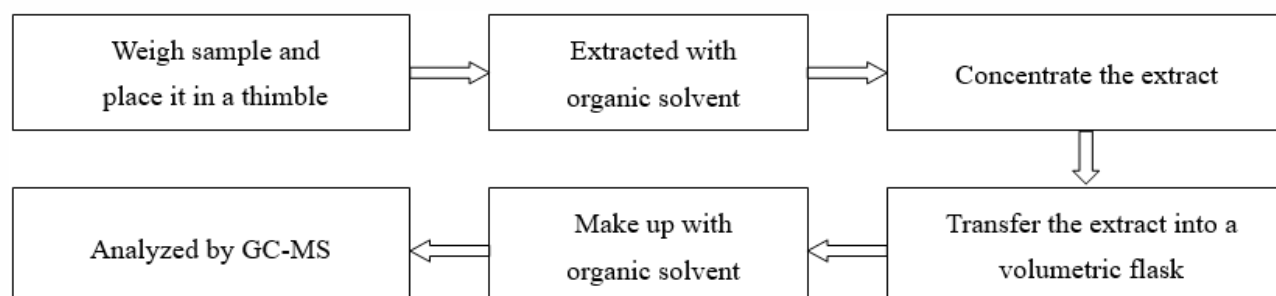
### 2. Mercury (Hg)



### 3. Hexavalent Chromium (Cr(VI))



### 4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

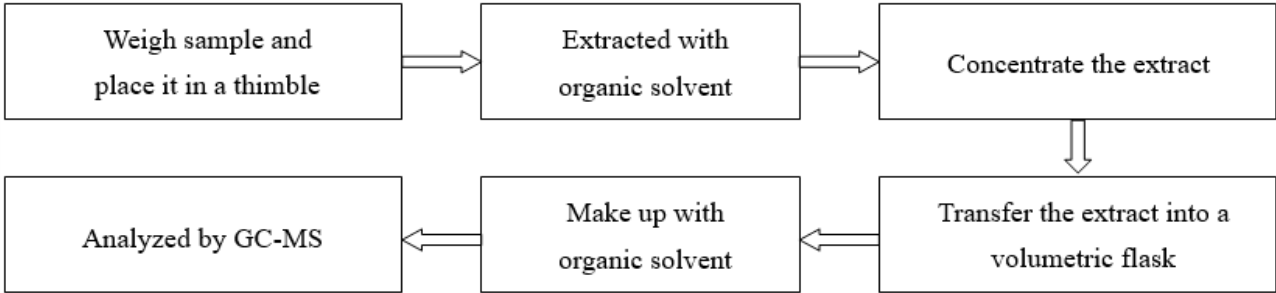


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5. Phthalates (DBP, BBP, DEHP, DIBP)



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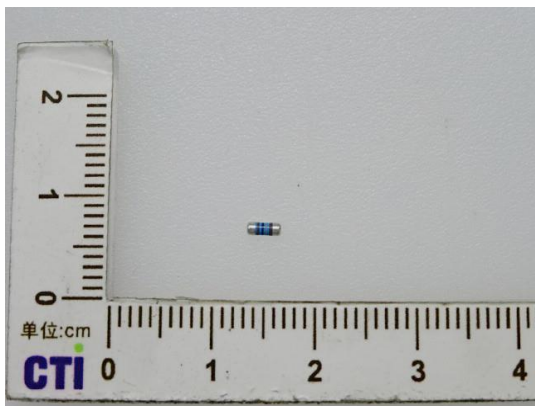
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## Photo(s) of the sample(s)

Final Product

1



### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

\*\*\* End of Report \*\*\*

## Appendix

### Client Reference Photo (Non-tested sample)



### Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240413041116001.