# Test Report



**Report No.** A2250718090101001

**Company Name shown on Report** MITSUI HIGH-TEC (SHANGHAI) CO.,LTD

**Address** NO.2001 XINJIN QIAO ROAD EXPORT PROCESSING ZONE PUDONG SHANGHAI CHINA

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

| | |
|---|---|
| Sample Name | EFTEC64T+PPF |
| Sample Received Date | Sep. 25, 2025 |
| Testing Period | Sep. 25, 2025 to Sep. 30, 2025 |

**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, Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane (HBCDD), Polyvinyl Chloride (PVC), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).

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

**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: Chen kaimin

Chen kaimin
Lab Manager

Date Sep. 30, 2025

No. R201801665

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**Test Method**

| Test 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 62321-7-1:2015 | UV-Vis |
| Polybrominated Biphenyls (PBBs) | IEC 62321-12:2023 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-12:2023 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-12:2023 | GC-MS |
| Beryllium(Be) | Refer to US EPA 3050B:1996 & US EPA 6010D:2018* | ICP-OES |
| Antimony(Sb) | Refer to US EPA 3050B:1996 & US EPA 6010D:2018* | ICP-OES |
| Fluorine (F) | EN 14582:2016 | IC |
| Chlorine (Cl) | EN 14582:2016 | IC |
| Bromine (Br) | EN 14582:2016 | IC |
| Iodine (I) | EN 14582:2016 | IC |
| Hexabromocyclododecane (HBCDD) | IEC 62321-9:2021 | GC-MS |
| Polyvinyl Chloride (PVC) | Refer to JY/T 001-1996* | FT-IR |
| Perfluorooctanoic Acid(PFOA) | CEN/TS 15968:2010* | LC-MS-MS/ LC-MS |
| Perfluorooctane Sulfonates(PFOS) | CEN/TS 15968:2010* | LC-MS-MS/ LC-MS |
| Phthalates | IEC 62321-12:2023 | GC-MS |

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**Test Result(s)**

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 001 | | |
| Lead (Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| Mercury (Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D. ▼ | 0.10 μg/cm² (LOQ) | 1000 mg/kg |

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 001 | | |
| **Polybrominated Biphenyls (PBBs)** | | | |
| Monobromobiphenyl | N.D. | 25 mg/kg | 1000 mg/kg |
| Dibromobiphenyl | N.D. | 25 mg/kg | |
| Tribromobiphenyl | N.D. | 25 mg/kg | |
| Tetrabromobiphenyl | N.D. | 25 mg/kg | |
| Pentabromobiphenyl | N.D. | 25 mg/kg | |
| Hexabromobiphenyl | N.D. | 25 mg/kg | |
| Heptabromobiphenyl | N.D. | 25 mg/kg | |
| Octabromobiphenyl | N.D. | 25 mg/kg | |
| Nonabromobiphenyl | N.D. | 25 mg/kg | |
| Decabromobiphenyl | N.D. | 25 mg/kg | |

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 001 | | |
| **Polybrominated Diphenyl Ethers (PBDEs)** | | | |
| Monobromodiphenyl ether | N.D. | 25 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether | N.D. | 25 mg/kg | |
| Tribromodiphenyl ether | N.D. | 25 mg/kg | |
| Tetrabromodiphenyl ether | N.D. | 25 mg/kg | |
| Pentabromodiphenyl ether | N.D. | 25 mg/kg | |
| Hexabromodiphenyl ether | N.D. | 25 mg/kg | |
| Heptabromodiphenyl ether | N.D. | 25 mg/kg | |
| Octabromodiphenyl ether | N.D. | 25 mg/kg | |
| Nonabromodiphenyl ether | N.D. | 25 mg/kg | |
| Decabromodiphenyl ether | N.D. | 25 mg/kg | |

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**Test Result(s)**

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 001 | | |
| **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 (DEHP)<br>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 |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Beryllium (Be) | N.D. | 10 mg/kg |
| Antimony (Sb) | N.D. | 10 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Fluorine (F) | N.D. | 10 mg/kg |
| Chlorine (Cl) | N.D. | 10 mg/kg |
| Bromine (Br) | N.D. | 10 mg/kg |
| Iodine (I) | N.D. | 10 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Hexabromocyclododecane (HBCDD) | N.D. | 20 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Polyvinyl Chloride (PVC) | Negative | / |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Perfluorooctanoic Acid (PFOA) | N.D. | 0.010 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Perfluorooctane Sulfonates (PFOS) | N.D. | 0.010 mg/kg |

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**Test Result(s)**

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Phthalates** | | |
| *Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3 | N.D. | 100 mg/kg |
| *Di-n-octyl phthalate (DNOP) CAS#:117-84-0 | N.D. | 100 mg/kg |
| *Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0 | N.D. | 100 mg/kg |
| *Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0, 68515-49-1 | N.D. | 100 mg/kg |

**Sample/Part Description**

| No. | CTI Sample ID | Description |
|---|---|---|
| 1 | 001 | Silvery metal |

**Remark:** **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium, Antimony.**

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
-The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

-Negative = Not contained Polyvinyl Chloride(PVC)

**Note:** **"*"indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

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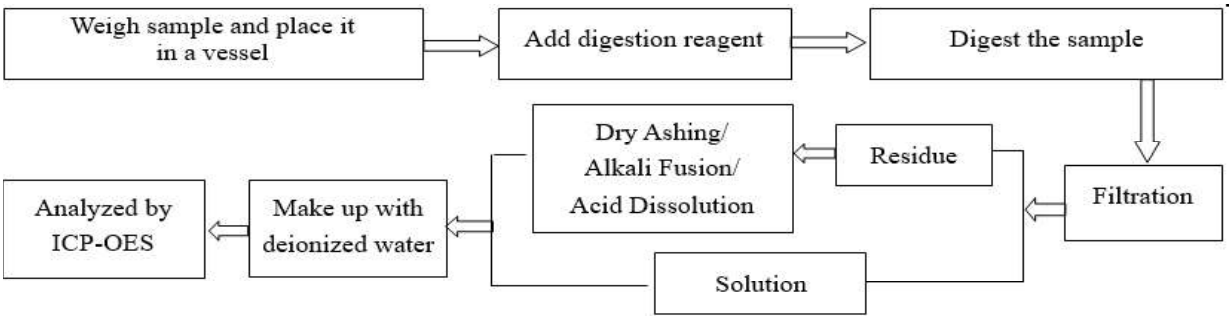
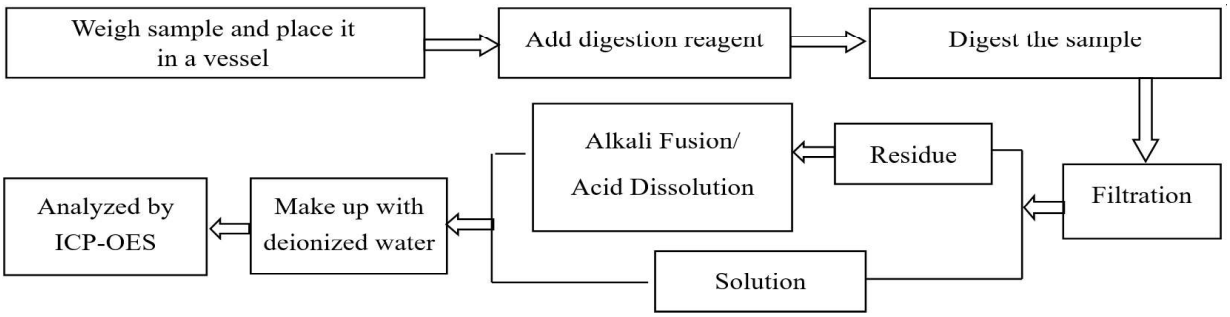
**Test Process**

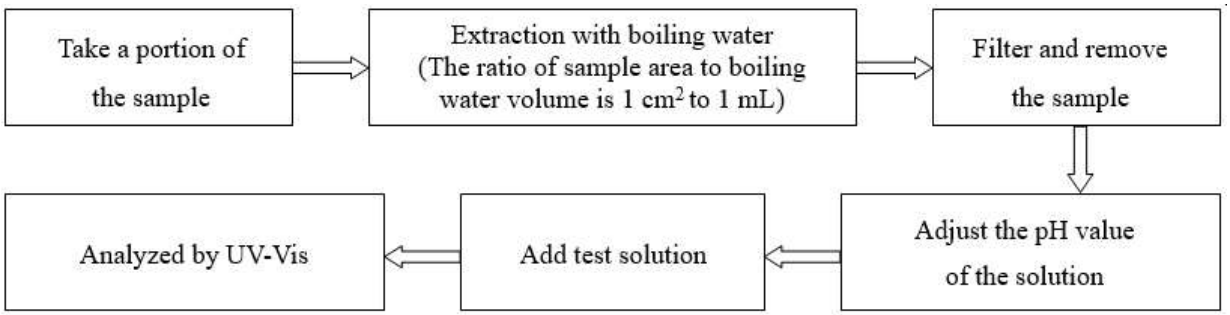
**1. Lead (Pb), Cadmium (Cd)**



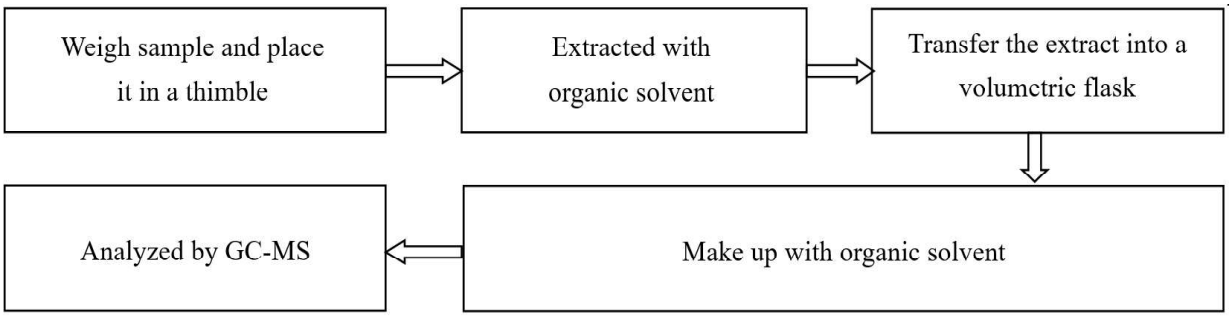

**2. Mercury (Hg)**




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




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



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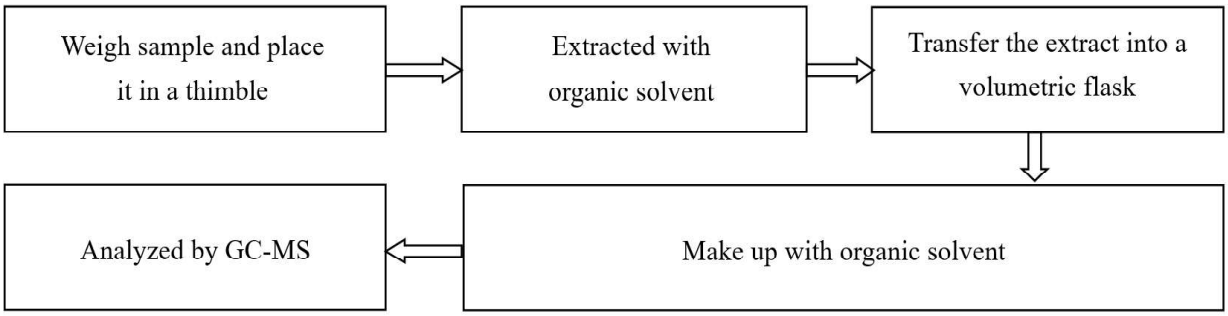
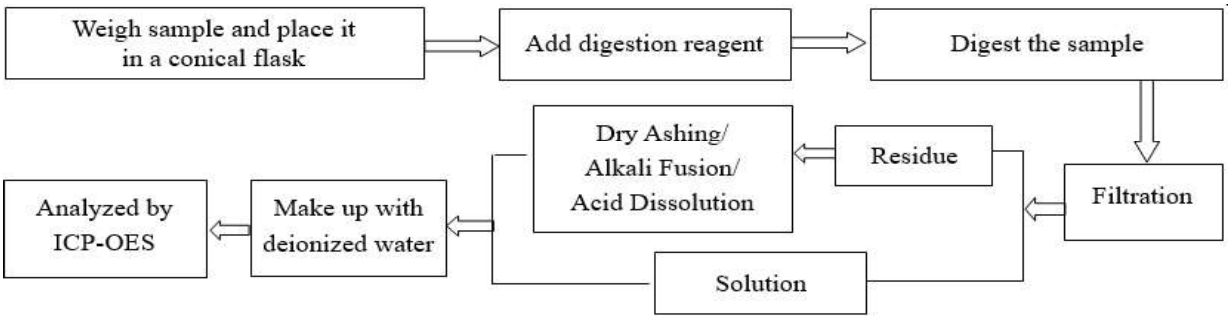
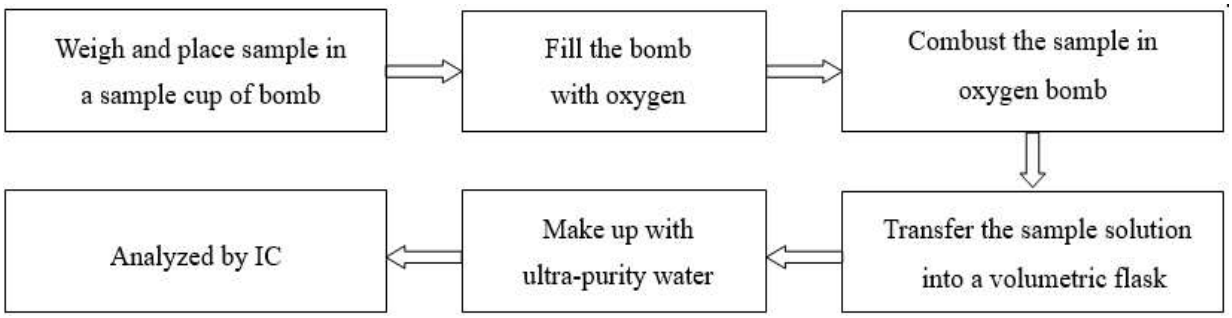
**5. Phthalates**



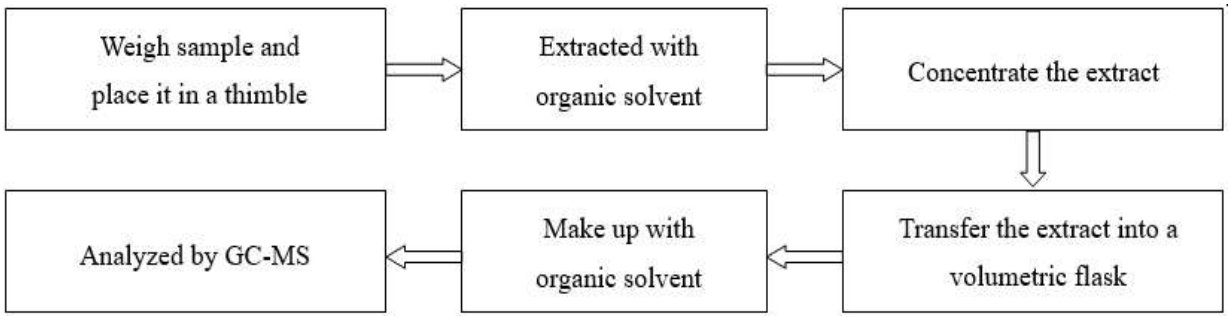

**6. Beryllium(Be), Antimony(Sb)**



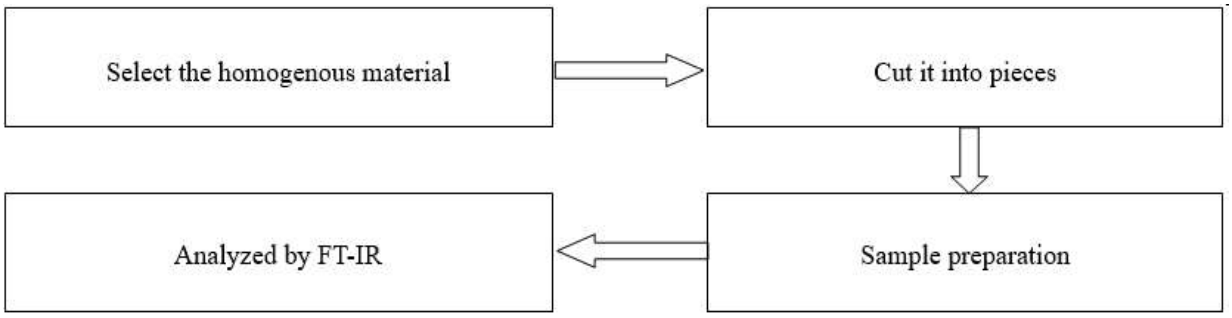

**7. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)**



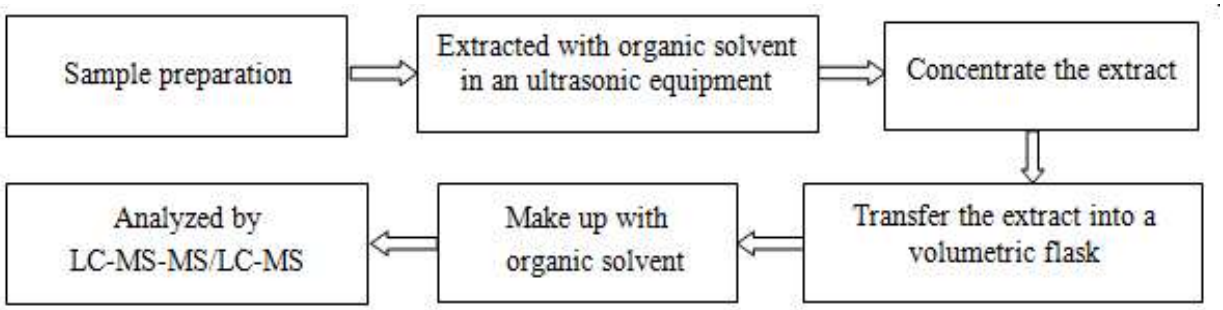

**8. Hexabromocyclododecane (HBCDD)**



**9. Polyvinyl Chloride (PVC)**




**10. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)**



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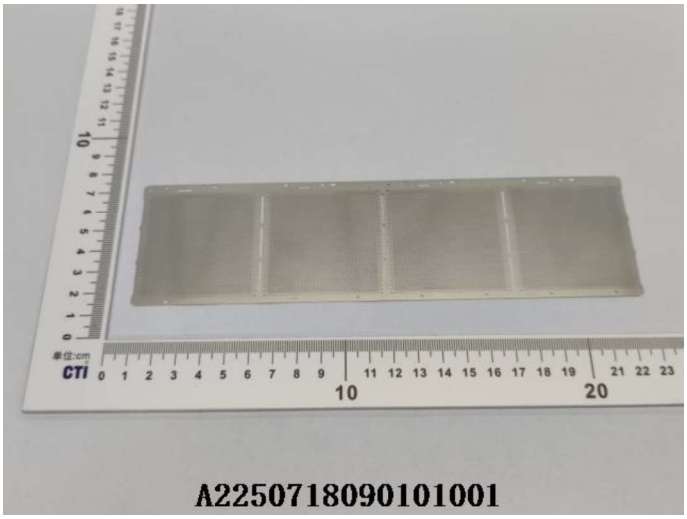
## Photo(s) of the sample(s)




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 reports (if generated), the Chinese version shall prevail.

*** End of report ***