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HAESUNGDS CO., LTD.

(Seongju-dong) 726 Ungnam-ro, Seongsan-gu Changwon-si, Gyeongnam Korea

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

SGS File No. : AYGA25-00467
Product Name : LEAD FRAME
Item No./Part No. : C194-BARE

 Item No./Part No.
 : C194-BARE

 Received Date
 : 2025. 01. 13

**Test Period** : 2025. 01. 13 to 2025. 01. 20

**Test Results** : For further details, please refer to following page(s)

Monet Jeong

**Monet Jeong** 

Technical Manager / SGS Korea Co., Ltd

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**Sample No.** : AYGA25-00467.001

Sample Description: LEAD FRAMEItem No./Part No.: C194-BAREMaterials: Metal alloy

### **Heavy Metals**

| Test Items                    | Unit   | Test Method   | MDL | Results |
|-------------------------------|--------|---|-----|---------|
| Cadmium (Cd)                  | mg/kg  | With reference to IEC 62321-5 : 2013, by ICP-OES              | 0.5 | N.D.    |
| Lead (Pb)                     | mg/kg  | With reference to IEC 62321-5 : 2013, by ICP-OES              | 5   | 21.2    |
| Mercury (Hg)                  | mg/kg  | With reference to IEC 62321-4 : 2013+AMD1:2017CSV, by ICP-OES | 2   | N.D.    |
| Hexavalent Chromium (Cr VI)++ | μg/cm² | With reference to IEC 62321-7-1 : 2015, by UV-Vis             | 0.1 | N.D.    |

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### **Total Metals**

| Test Items     | Unit  | Test Method   | MDL | Results |
|----------------|-------|---|-----|---------|
| Antimony (Sb)  | mg/kg | With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES | 10  | N.D.    |
| Arsenic (As)   | mg/kg | With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES | 10  | N.D.    |
| Beryllium (Be) | mg/kg | With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES | 5   | N.D.    |

### Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method                                    | MDL | Results |
|--------------------------|-------|--|-----|---------|
| Monobromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromobiphenyl          | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromobiphenyl         | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Monobromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromodiphenyl ether    | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromodiphenyl ether   | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

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**Sample No.** : AYGA25-00467.001

Sample Description: LEAD FRAMEItem No./Part No.: C194-BAREMaterials: Metal alloy

### Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method                                    | MDL | Results |
|--------------------------|-------|--|-----|---------|
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

### **Phthalates**

| Test Items                         | Unit  | Test Method                                    | MDL | Results |
|------------------------------------|-------|--|-----|---------|
| Di-(2-ethylhexyl) phthalate (DEHP) | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-butyl phthalate (DBP)           | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Benzyl butyl phthalate (BBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-isobutyl phthalate (DIBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-n-pentyl phthalate(DPP, DnPP)   | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |

### **Chlorinated Paraffin**

| Test Items  | Unit  | Test Method                              | MDL | Results |
|---|-------|--|-----|---------|
| Alkanes, C10~13, Short Chain Chlorinated Paraffins(SCCP)      | mg/kg | With reference to ISO 18219, by CI-GC-MS | 50  | N.D.    |
| Alkanes, C14~17, Medium Chain<br>Chlorinated Paraffins (MCCP) | mg/kg | With reference to ISO 18219, by CI-GC-MS | 50  | N.D.    |

### Chlorinated Organic Substances

| Test Items                        | Unit  | Test Method                                    | MDL | Results |
|-----------------------------------|-------|--|-----|---------|
| Polychlorinated Naphthalene (PCN) | mg/kg | With reference to US EPA 8081 A(US EPA 3550C), | 5   | N.D.    |
|                                   |       | by GC/MS                                       |     |         |

### PCBs & PCTs

| Test Items                       | Unit  | Test Method   | MDL | Results |
|----------------------------------|-------|---|-----|---------|
| Polychlorinated Biphenyls (PCBs) | mg/kg | With reference to US EPA 8082,(US EPA 3550C),<br>by GC/MS | 3   | N.D.    |
|                                  |       |   |     |         |

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**Sample No.** : AYGA25-00467.001

Sample Description : LEAD FRAME Item No./Part No. : C194-BARE Materials : Metal alloy

### PCBs & PCTs

| Test Items                        | Unit  | Test Method                                   | MDL | Results |
|-----------------------------------|-------|---|-----|---------|
| Polychlorinated terphenyls (PCTs) | mg/kg | With reference to US EPA 8082,(US EPA 3550C), | 3   | N.D.    |
|                                   |       | by GC/MS                                      |     |         |

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### Polymer Identification

| Test Items | Unit | Test Method | MDL | Results  |
|------------|------|-------------|-----|----------|
| PVC        | **   | FT-IR       |     | Negative |

### Halogen Content

| Test Items   | Unit  | Test Method                                 | MDL | Results |
|--------------|-------|---|-----|---------|
| Fluorine(F)  | mg/kg | With reference to BS EN 14582 : 2016, by IC | 30  | N.D.    |
| Chlorine(CI) | mg/kg | With reference to BS EN 14582 : 2016, by IC | 30  | N.D.    |
| Bromine(Br)  | mg/kg | With reference to BS EN 14582 : 2016, by IC | 30  | N.D.    |
| Iodine(I)    | mg/kg | With reference to BS EN 14582 : 2016, by IC | 50  | N.D.    |

### Organotin Compounds

| Test Items               | Unit  | Test Method                             | MDL  | Results |
|--------------------------|-------|---|------|---------|
| Dibutyltin (DBT)         | mg/kg | With reference to ISO 17353:2004, GC/MS | 0.02 | N.D.    |
| Dioctyltin (DOT)         | mg/kg | With reference to ISO 17353:2004, GC/MS | 0.02 | N.D.    |
| Tributyltin (TBT)        | mg/kg | With reference to ISO 17353:2004, GC/MS | 0.02 | N.D.    |
| Triphenyltin (TPhT)      | mg/kg | With reference to ISO 17353:2004, GC/MS | 0.02 | N.D.    |
| Tributyltin oxide (TBTO) | mg/kg | With reference to ISO 17353:2004, GC/MS | 0.02 | N.D.    |

### Perfluorinated Compounds (PFCs)

| Test Items                       | Unit  | Test Method  | MDL  | Results |
|----------------------------------|-------|--|------|---------|
| Perfluorootanoic acid (PFOA)     | mg/kg | with reference to CEN/TS 15968:2010,<br>HPLC/MS/MS | 0.01 | N.D.    |
| Perfluorooctane sulfonate (PFOS) | mg/kg | with reference to CEN/TS 15968:2010,<br>HPLC/MS/MS | 0.01 | N.D.    |

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Sample No. : AYGA25-00467.001

Sample Description : LEAD FRAME Item No./Part No. : C194-BARE **Materials** : Metal alloy

^ PFOS refer to its salts / derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5),

PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3),

PFOS-N(C10H21)2(CH3)2 (CAS No. 251099-16-8) and POSF (CAS No.: 307-35-7).

\* PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.:

335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).

#### Flame Retardants

| Test Items                     | Unit  | Test Method                              | MDL | Results |
|--------------------------------|-------|--|-----|---------|
| Hexabromocyclododecane (HBCDD) | mg/kg | With reference to USEPA 3540 C, by LC/MS | 5   | N.D.    |

- NOTE: (1) N.D. = Not detected. (<MDL)
  - (2) mg/kg = ppm, ug/kg = ppb, mg/L = ppm
  - (3) MDL = Method Detection Limit
  - (4) = No regulation
  - (5) \*\* = Qualitative analysis (No Unit)
  - (6) Negative = Undetectable / Positive = Detectable
  - (7) += a. The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
    - b. If the content of Total Chromium (Cr) is greater than the MDL of Hexavalent Chromium (Cr(VI)), it is the result of hexavalent Chromium by UV-VIS.
  - (8) ++= a. The sample is positive for Cr VI if the Cr VI concentration is greater than 0.13 ug/cm2.

The sample coating is considered to contain Cr VI.

- b. The sample is negative for Cr VI if Cr VI is ND(concentration less than 0.10 ug/cm2). The coating is considered a non-Cr VI based coating.
- c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination.

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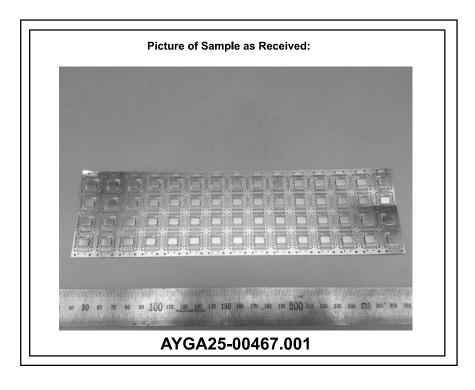
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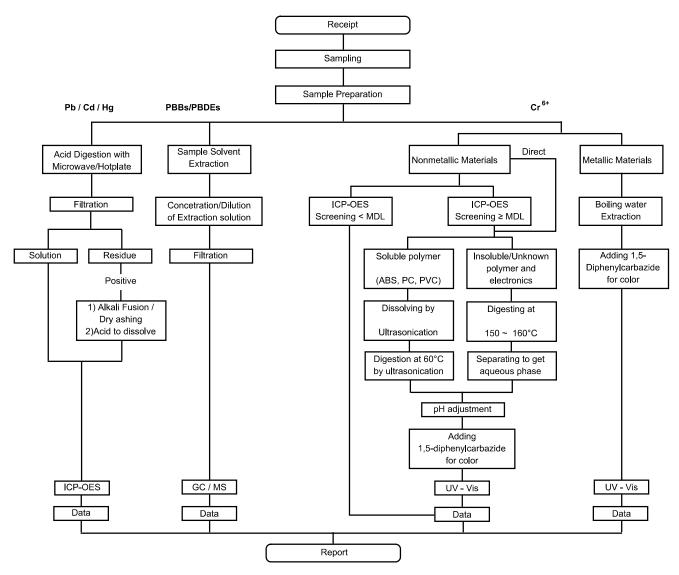
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## Flow Chart for RoHS Pb / Cd / Hg / Cr 6+ PBBs&PBDEs Test

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The samples were dissolved totally at the acid digestion step of the above flow chart for Cd, Pb, Hg.

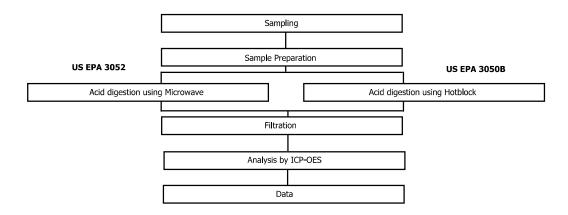
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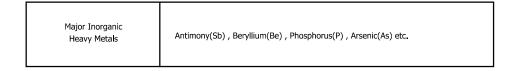


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### Flow Chart for Heavy metal

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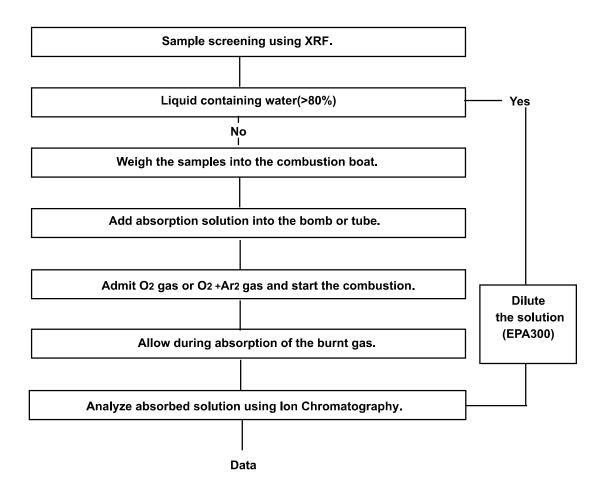


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### Flow Chart for Halogen Test



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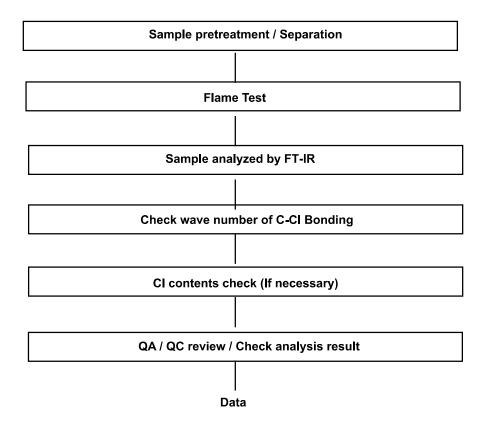
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### Flow Chart for PVC Test

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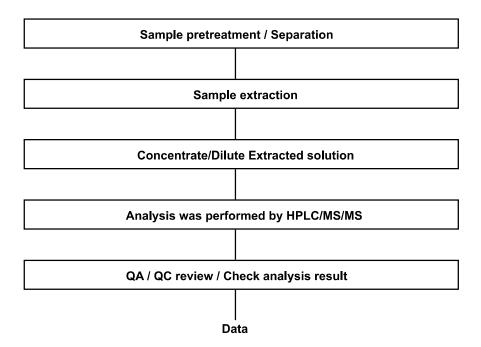
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### Flow Chart for PFOS/PFOA Test

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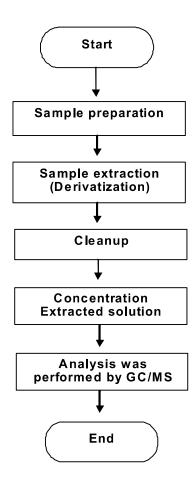
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### **Organotin Flow Chart**

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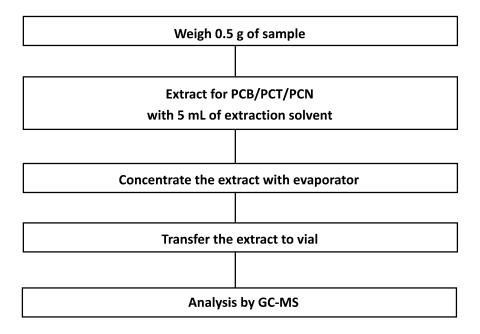
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## Flow Chart for (PCB/PCT/PCN)

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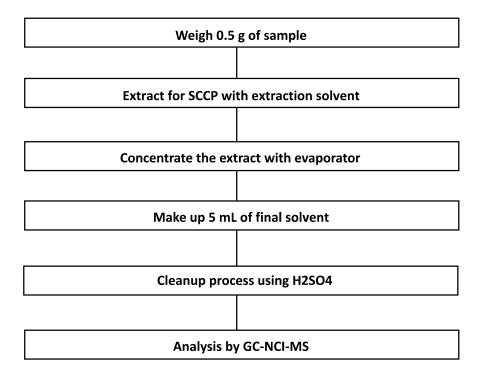
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#### Flow Chart for SCCP

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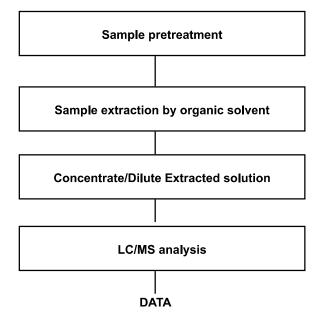
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### **Testing Flow Chart for HBCD**

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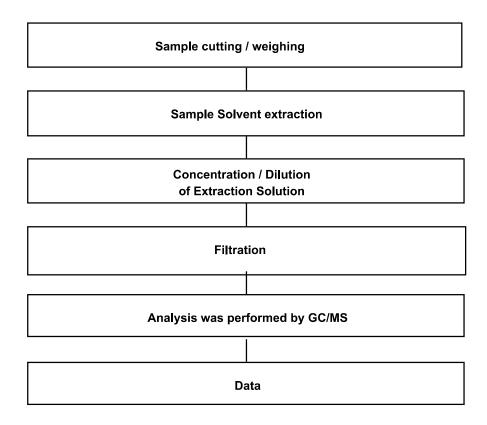
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### Flow Chart for PhthalateTest



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