

**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.** : AYGA20-00472  
**Product Name** : Ag Plating  
**Item No./Part No.** : Ag Plating  
**Received Date** : 2020. 01. 16  
**Test Period** : 2020. 01. 16 to 2020. 01. 23  
**Test Results** : For further details, please refer to following page(s)

SGS Korea Co., Ltd.



Tommy Oh / Chemical Lab Mgr

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# Test Report No. F690101/LF-CTSAYGA20-00472

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Sample No. : AYGA20-00472.001  
 Sample Description : Ag Plating  
 Item No./Part No. : Ag Plating  
 Materials : Metal Alloy

## Heavy Metals

| Test Items                   | Unit               | Test Method   | MDL | Results |
|------------------------------|--------------------|---|-----|---------|
| Cadmium (Cd)                 | mg/kg              | With reference to IEC 62321-5:2013<br>(Determination of Cadmium by ICP-OES) | 0.5 | N.D.    |
| Lead (Pb)                    | mg/kg              | With reference to IEC 62321-5:2013<br>(Determination of Lead by ICP-OES)    | 5   | N.D.    |
| Mercury (Hg)                 | mg/kg              | With reference to IEC 62321-4:2013<br>(Determination of Mercury by ICP-OES) | 2   | N.D.    |
| Hexavalent Chromium (Cr VI)* | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1:2015<br>(Determination of CrVI by UV-Vis)   | 0.1 | N.D.    |
| Antimony (Sb)                | mg/kg              | With reference to EPA 3052(1996), US EPA<br>6010B(1996), ICP                | 10  | N.D.    |
| Beryllium (Be)               | mg/kg              | With reference to EPA 3052(1996), US EPA<br>6010B(1996), ICP                | 0.5 | N.D.    |
| Arsenic (As)                 | mg/kg              | With reference to EPA 3052(1996), US EPA<br>6010B(1996), ICP                | 10  | N.D.    |

## Flame Retardants-PBBs/PBDEs

| Test Items         | Unit  | Test Method  | MDL | Results |
|--------------------|-------|--|-----|---------|
| Monobromobiphenyl  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Dibromobiphenyl    | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tribromobiphenyl   | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Hexabromobiphenyl  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Octabromobiphenyl  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Nonabromobiphenyl  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Decabromobiphenyl  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |

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Sample No. : AYGA20-00472.001  
 Sample Description : Ag Plating  
 Item No./Part No. : Ag Plating  
 Materials : Metal Alloy

## Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method  | MDL | Results |
|--------------------------|-------|--|-----|---------|
| Monobromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Dibromodiphenyl ether    | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tribromodiphenyl ether   | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015<br>(Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |

## Phthalates

| Test Items  | Unit  | Test Method                                  | MDL | Results |
|---|-------|--|-----|---------|
| Di-butyl phthalate (DBP)                                | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Benzyl butyl phthalate (BBP)                            | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-(2-ethylhexyl) phthalate (DEHP)                      | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-isobutyl phthalate (DIBP)                            | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| [di(C6-C8 alkyl)phthalate] branched (DIHP)              | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| [di(C7-C11 alkyl)phthalate] linear and branched (DHNUP) | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Bis(2-methoxyethyl) phthalate (BMP, BMEP, DMEP)         | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-isononyl phthalate (DINP)                            | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-isodecyl phthalate (DIDP)                            | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-n-octyl phthalate (DNOP)                             | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-n-hexyl phthalate (DNHP)                             | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |
| Di-n-pentyl phthalate(DPP, DnPP)                        | mg/kg | With reference to IEC 62321-8 ; 2017 , GC/MS | 50  | N.D.    |

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Sample No. : AYGA20-00472.001  
Sample Description : Ag Plating  
Item No./Part No. : Ag Plating  
Materials : Metal Alloy

## Chlorinated Paraffin

| Test Items   | Unit  | Test Method                 | MDL | Results |
|--|-------|-----------------------------|-----|---------|
| Alkanes, C10~13, Short Chain Chlorinated Paraffins(SCCP) | mg/kg | With reference to ISO 18219 | 50  | N.D.    |

## Chlorinated Organic Substances

| Test Items                        | Unit  | Test Method   | MDL | Results |
|-----------------------------------|-------|---|-----|---------|
| Polychlorinated Biphenyls (PCBs)  | mg/kg | With reference to US EPA 8082,(US EPA 3550C), by GC/MS  | 3   | N.D.    |
| Polychlorinated terphenyls (PCTs) | mg/kg | With reference to US EPA 8082,(US EPA 3550C), by GC/MS  | 3   | N.D.    |
| Polychlorinated Naphthalene (PCN) | mg/kg | With reference to US EPA 8081 A(US EPA 3550C), by GC/MS | 5   | N.D.    |

## Polymer Identification

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

## Halogen Content

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

## Organotin Compounds

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

## PFCs

| Test Items | Unit | Test Method | MDL | Results |
|------------|------|-------------|-----|---------|
|------------|------|-------------|-----|---------|

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**Sample No.** : AYGA20-00472.001  
**Sample Description** : Ag Plating  
**Item No./Part No.** : Ag Plating  
**Materials** : Metal Alloy

**PFCs**

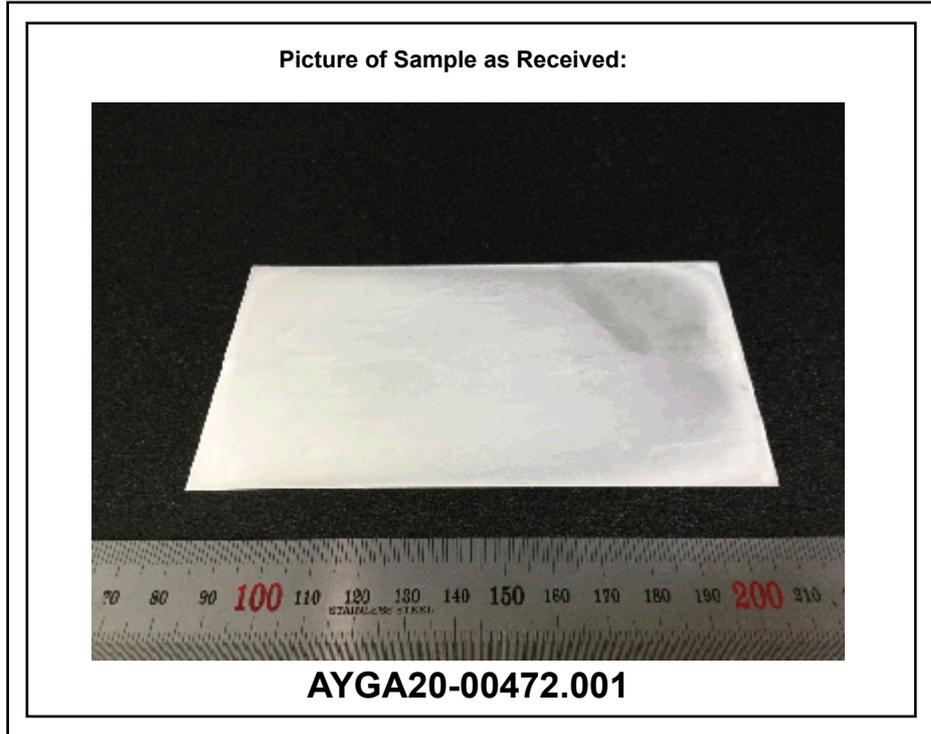
| Test Items                   | Unit  | Test Method                  | MDL | Results |
|------------------------------|-------|------------------------------|-----|---------|
| Perfluorootanoic acid (PFOA) | mg/kg | CEN/TS 15968 : 2010, HPLC/MS | 1   | N.D.    |
| PFOS <sup>^</sup>            | mg/kg | CEN/TS 15968 : 2010, HPLC/MS | 1   | N.D.    |

<sup>^</sup> PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol

**Flame Retardants**

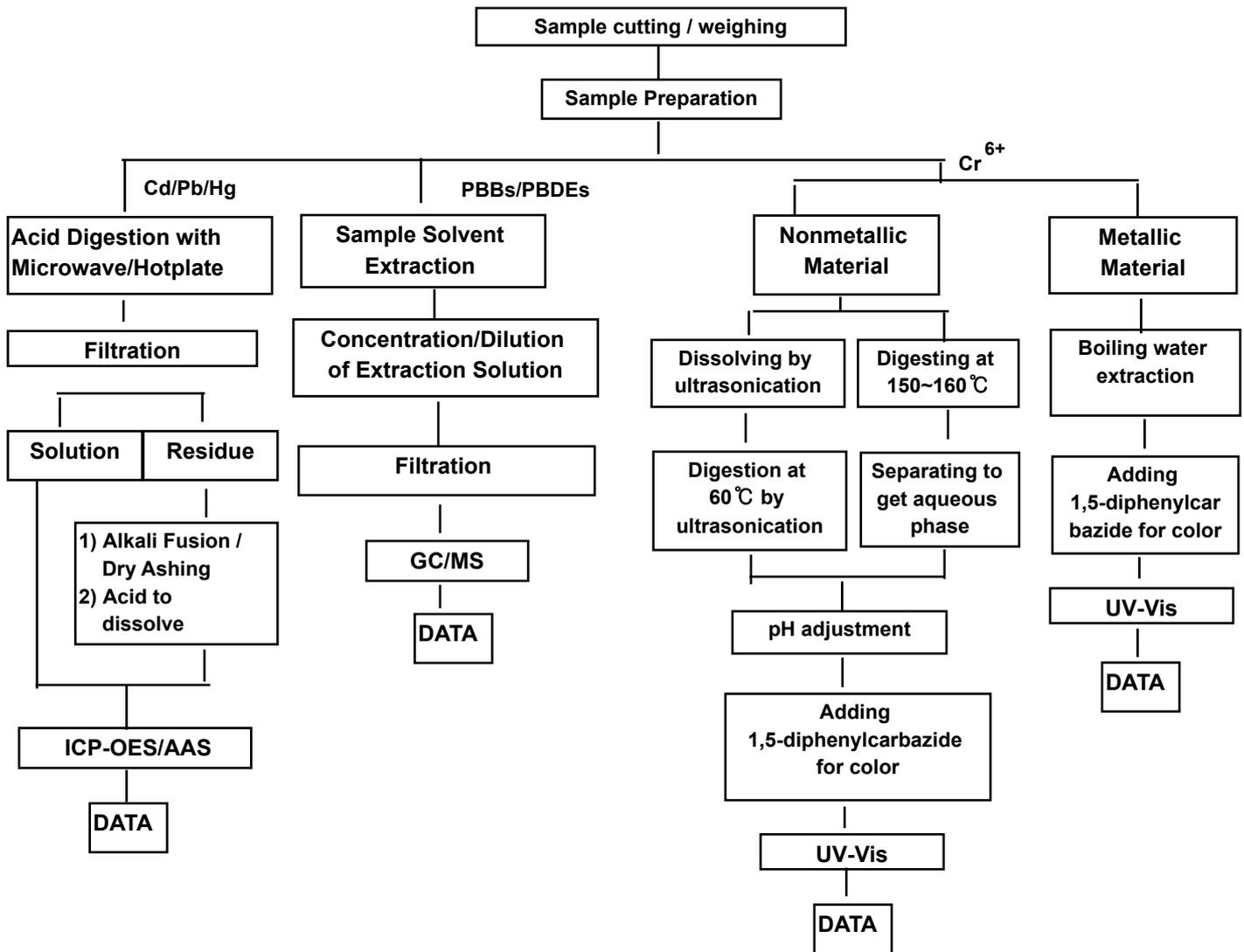
| Test Items                     | Unit  | Test Method        | MDL | Results |
|--------------------------------|-------|--------------------|-----|---------|
| Hexabromocyclododecane (HBCDD) | mg/kg | USEPA 3540C, LC/MS | 5   | N.D.    |

- NOTE:
- (1) N.D. = Not detected.(<MDL)
  - (2) mg/kg = ppm
  - (3) MDL = Method Detection Limit
  - (4) - = No regulation
  - (5) Negative = Undetectable / Positive = Detectable
  - (6) \*\* = Qualitative analysis (No Unit)
  - (7) \* = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm<sup>2</sup>. The sample coating is considered to contain CrVI.  
 b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm<sup>2</sup>). The coating is considered a non-CrVI based coating.  
 c. The result between 0.10 ug/cm<sup>2</sup> and 0.13 ug/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.
  - (8) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
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### Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr<sup>6+</sup> /PBBs&PBDEs Testing



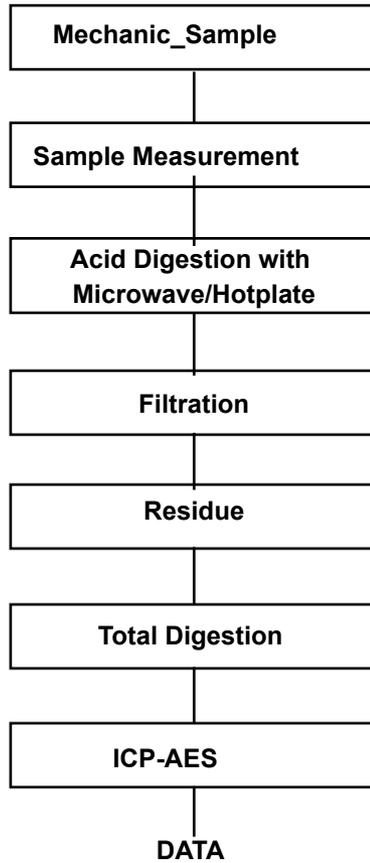
The samples were dissolved totally at the acid digestion step of the above flow chart for Cd,Pb,Hg  
 Section Chief : Timothy Jeon

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### Flow Chart for Inorganic Elements Testing

#### Inorganic Elements

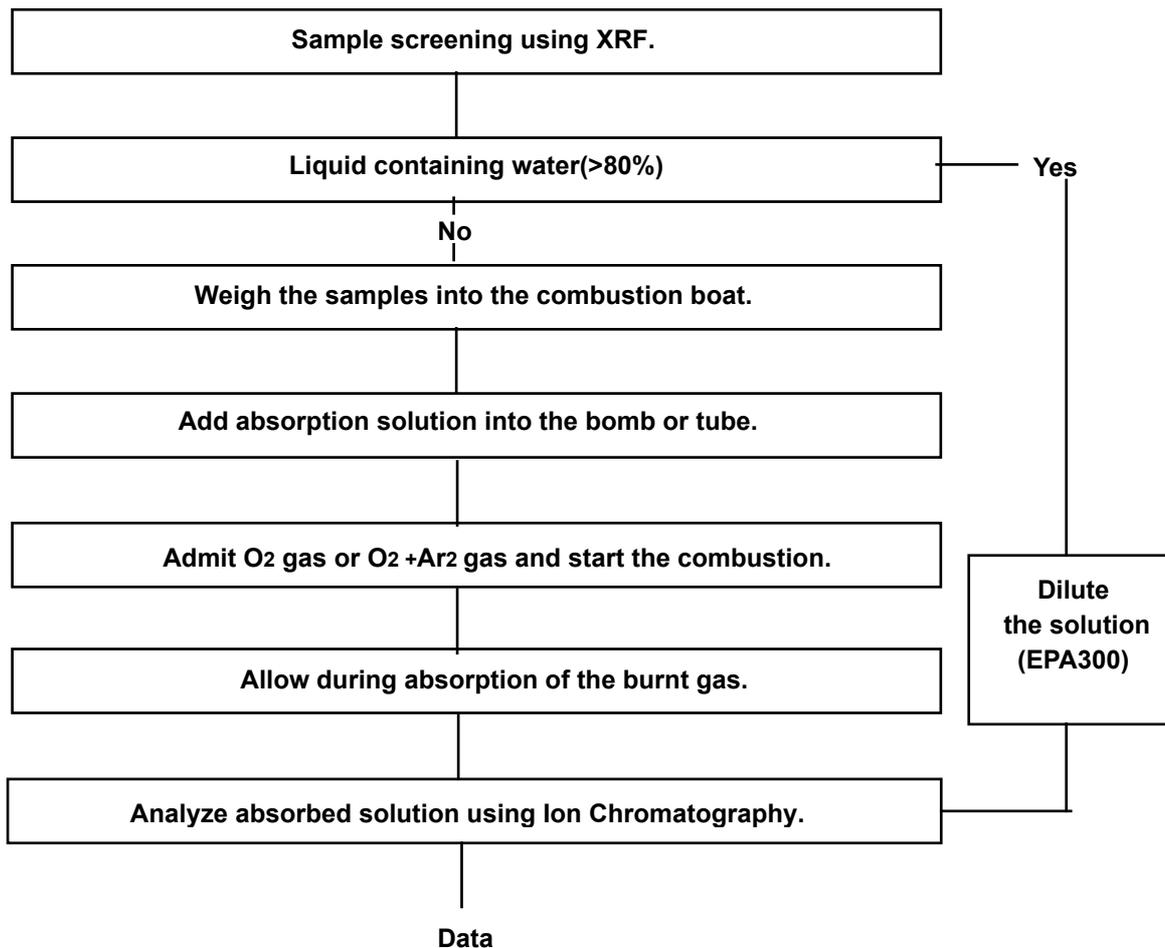


|                              |   |
|------------------------------|---|
| Major Inorganic Heavy Metals | Antimony(Sb) , Beryllium(Be) , Phosphorus(P) , Arsenic(As) etc. |
|------------------------------|---|

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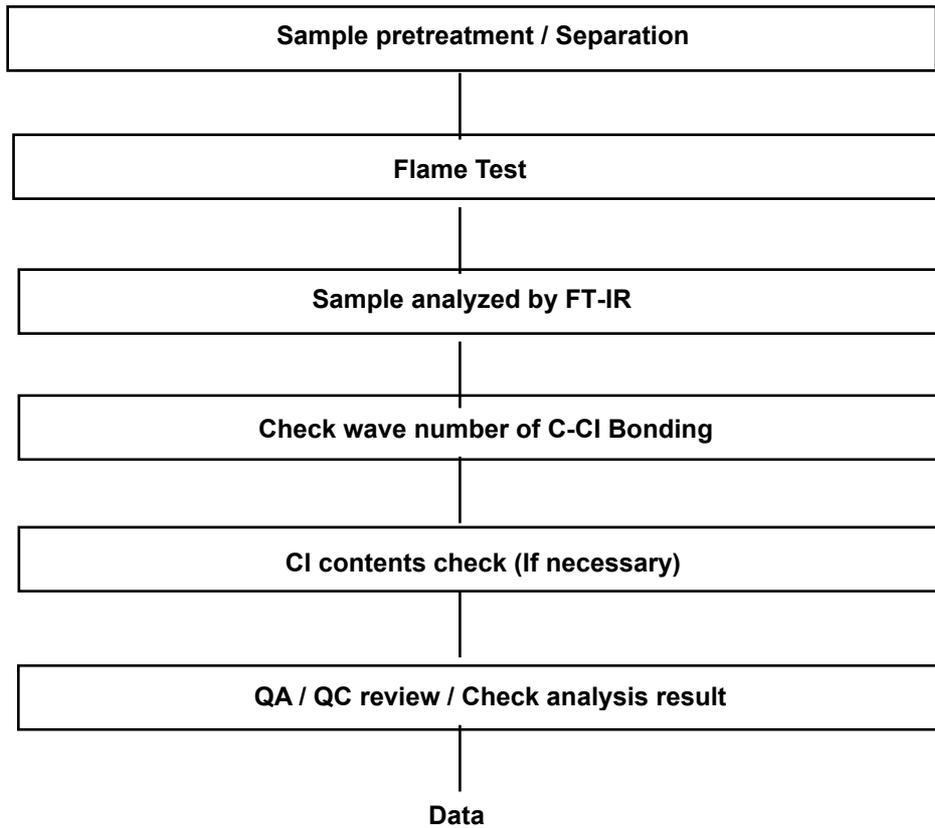
### Flow Chart for Halogen Test



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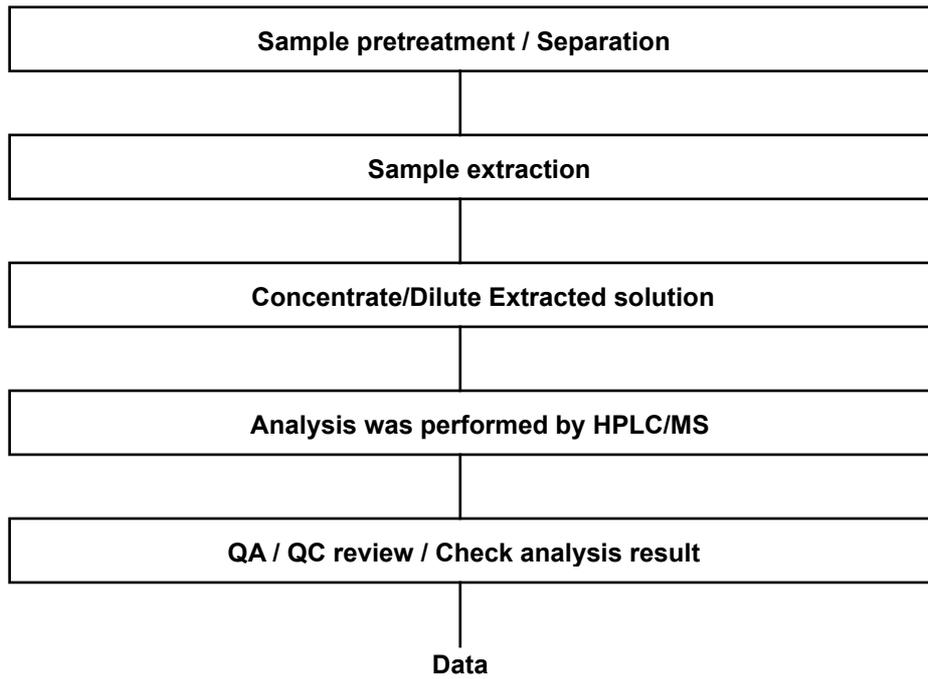
### Flow Chart for PVC Test



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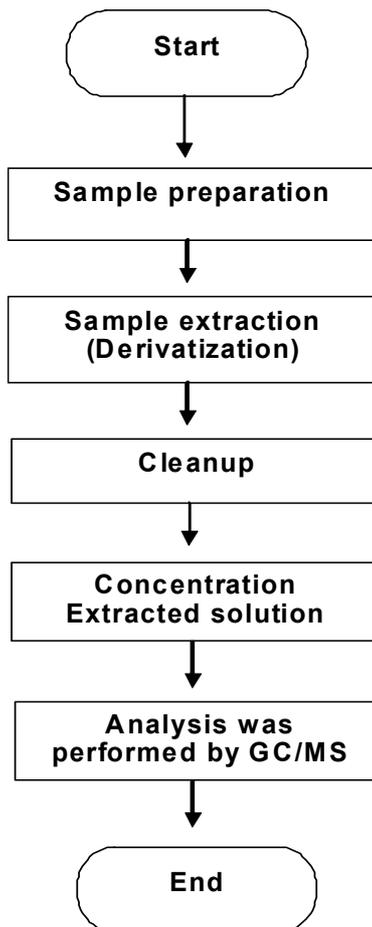


### Flow Chart for PFOS/PFOA Test



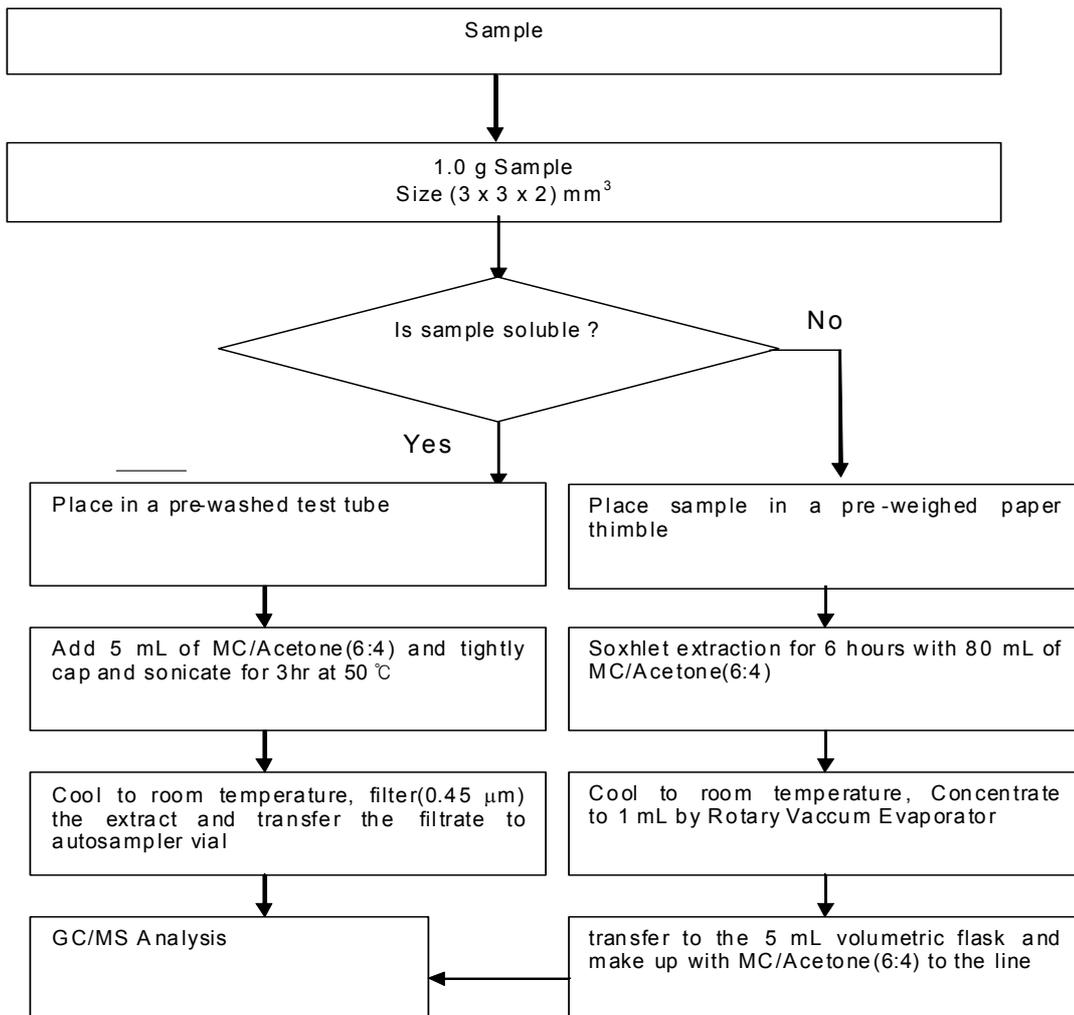
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### Organotin Flow Chart



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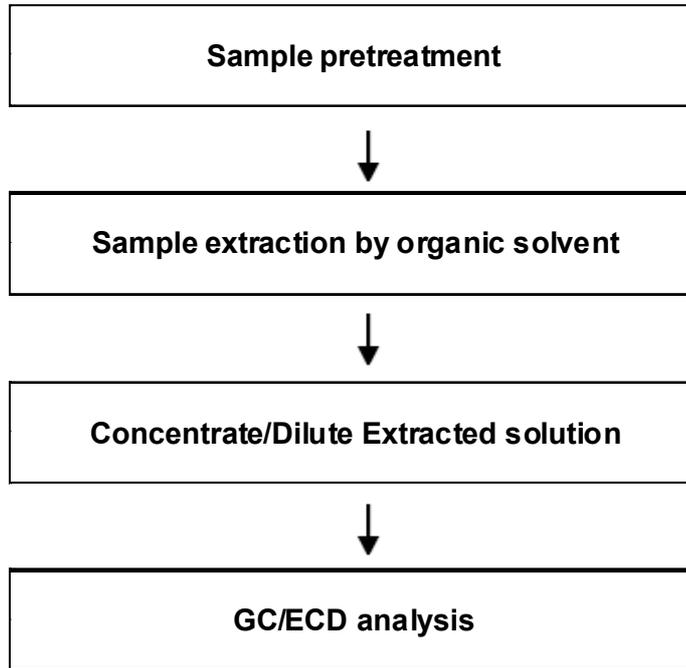
### PCBs,PCTs,PCNs Flow Chart



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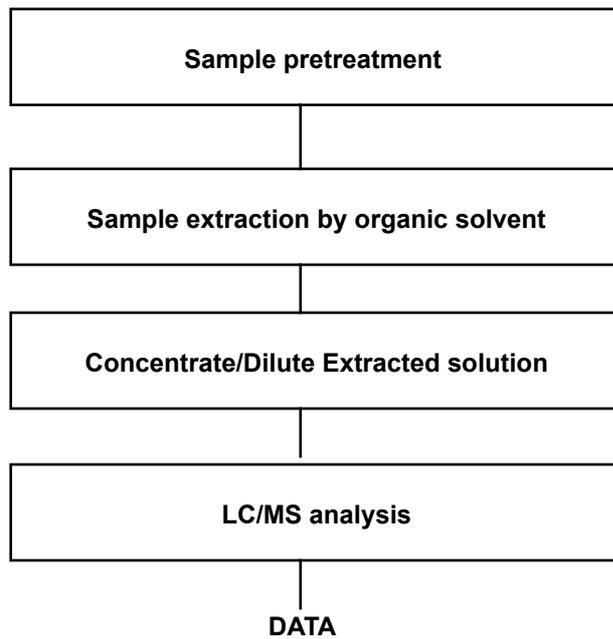
### SCCP Analysis Flow Chart



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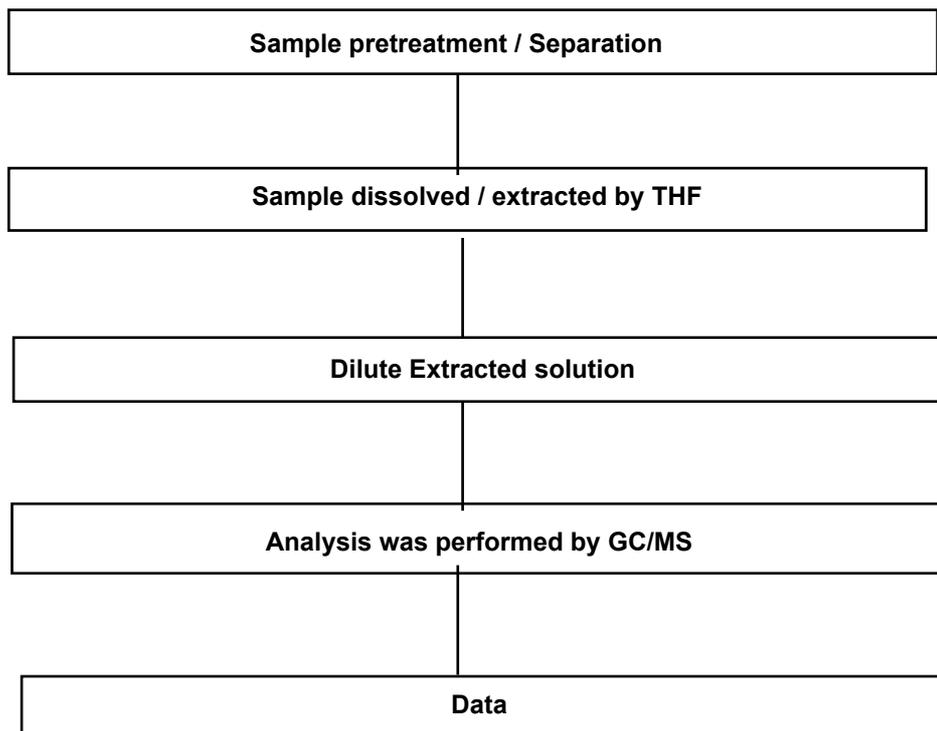
### Testing Flow Chart for HBCD



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### Flow Chart for Phthalate Test



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

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