

## Test Report

No.: CANEC25008780305

Date: Apr 28, 2025

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Client Name: SHENGYI TECHNOLOGY(JIANGXI)CO.,LTD.

Client Address: NO.8 GANGXING ROAD ,CHENGXI PORT,JIUJIANG ECONOMIC&TECHNOLOGICAL DEVELOPMENT ZONE,JIUJIANG CITY,JIANGXI PROVINCE, CHINA

Sample Name: The Halogen Free Copper Clad Laminate

Model No.: S1150GH

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-019081

Sample Receiving Date: Apr 21, 2025

Testing Period: Apr 21, 2025 ~ Apr 25, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement                                                                                                                                                                                                                                                                                                          | Conclusion  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Halogen                                                                                                                                                                                                                                                                                                                   | See Results |
| Element(s)                                                                                                                                                                                                                                                                                                                | See Results |
| Phthalates                                                                                                                                                                                                                                                                                                                | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                            | See Results |
| Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts                                                                                                                                                                                                                  | See Results |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen  
Approved Signatory

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### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                      |
|-------|------------|-------------------------|----------------------------------|
| SN1   | A3         | CAN25-0087803-0001.C003 | Double-side copper clad laminate |

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s) | MDL | A3 |
|-------------------------------------------|-------|---------|-----|----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether (PBDE)            | 1000  | mg/kg   | -   | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND |



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| Test Item(s)                            | Limit | Unit(s) | MDL | A3 |
|-----------------------------------------|-------|---------|-----|----|
| Octabrominated diphenyl ether (OctaBDE) | -     | mg/kg   | 5   | ND |
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 5   | ND |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 5   | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 1000  | mg/kg   | 50  | ND |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND |
| Dibutyl phthalate (DBP)                 | 1000  | mg/kg   | 50  | ND |
| Diisobutyl phthalate (DIBP)             | 1000  | mg/kg   | 50  | ND |

### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

### Halogen

**Test Method:** With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A3  |
|--------------|---------|-----|-----|
| Fluorine(F)  | mg/kg   | 20  | 446 |
| Chlorine(Cl) | mg/kg   | 50  | ND  |
| Bromine(Br)  | mg/kg   | 50  | ND  |
| Iodine(I)    | mg/kg   | 50  | ND  |

### Element(s)

**Test Method:** With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s)  | Unit(s) | MDL | A3 |
|---------------|---------|-----|----|
| Beryllium(Be) | mg/kg   | 5   | ND |
| Antimony(Sb)  | mg/kg   | 10  | ND |

### Phthalates

**Test Method:** With reference to EN 14372:2004, analysis was performed by GC-MS.

| Test Item(s)                       | CAS No.                   | Unit(s) | MDL   | A3 |
|------------------------------------|---------------------------|---------|-------|----|
| Dibutyl Phthalate(DBP)             | 84-74-2                   | %       | 0.003 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 117-81-7                  | %       | 0.003 | ND |
| Benzyl Butyl Phthalate(BBP)        | 85-68-7                   | %       | 0.003 | ND |
| Diisononyl Phthalate (DINP)        | 28553-12-0<br>/68515-48-0 | %       | 0.010 | ND |
| Di-n-Octyl Phthalate(DNOP)         | 117-84-0                  | %       | 0.003 | ND |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0<br>/68515-49-1 | %       | 0.010 | ND |



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| Test Item(s)                                                                  | CAS No.     | Unit(s) | MDL   | A3 |
|-------------------------------------------------------------------------------|-------------|---------|-------|----|
| Dimethyl Phthalate(DMP)                                                       | 131-11-3    | %       | 0.003 | ND |
| Diisobutyl Phthalate(DIBP)                                                    | 84-69-5     | %       | 0.003 | ND |
| Di-n-pentyl Phthalate (DnPP)                                                  | 131-18-0    | %       | 0.003 | ND |
| Di-n-Hexyl Phthalate(DnHP)                                                    | 84-75-3     | %       | 0.003 | ND |
| Bis(2-methoxyethyl)phthalate(DMEP)                                            | 117-82-8    | %       | 0.003 | ND |
| Diisopentyl Phthalate(DIPP)                                                   | 605-50-5    | %       | 0.003 | ND |
| n-pentyl Isopentyl Phthalate(nPIPP)                                           | 776297-69-9 | %       | 0.003 | ND |
| 1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)      | 71888-89-6  | %       | 0.010 | ND |
| 1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) | 68515-42-4  | %       | 0.010 | ND |
| 1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear(DPP)          | 84777-06-0  | %       | 0.010 | ND |
| Dihexylphthalate, branched and linear (DHxP)                                  | 68515-50-4  | %       | 0.010 | ND |

## Hexabromocyclododecane (HBCDD)

**Test Method:** With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

| Test Item(s)                                                                                                                 | CAS No.                                                                  | Unit(s) | MDL | A3 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|-----|----|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg   | 20  | ND |

## Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts

**Test Method:** With reference to Modified EN 17681-1:2022, analysis was performed by HPLC-MS or LC-MS/MS.

| Test Item(s)                                                 | CAS No.    | Unit(s) | MDL   | A3 |
|--------------------------------------------------------------|------------|---------|-------|----|
| <b>PFOS, its salts and related compounds</b>                 |            |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup> | 1763-23-1  | mg/kg   | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)              | 4151-50-2  | mg/kg   | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)             | 31506-32-8 | mg/kg   | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)  | 1691-99-2  | mg/kg   | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | mg/kg   | 0.010 | ND |
| Perfluorooctane Sulfonamide (PFOSA), its salts <sup>^</sup>  | 754-91-6   | mg/kg   | 0.010 | ND |



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| Test Item(s)                                                                         | CAS No.   | Unit(s) | MDL   | A3 |
|--------------------------------------------------------------------------------------|-----------|---------|-------|----|
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts <sup>^</sup>               | 2806-24-8 | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts <sup>^</sup> | 2355-31-9 | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts <sup>^</sup>    | 2991-50-6 | mg/kg   | 0.010 | ND |
| Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives                      | -         | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                               |           |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts <sup>^</sup>                                | 335-67-1  | mg/kg   | 0.010 | ND |

### Notes:

1. <sup>^</sup>=Substances refer to its salts/derivative listed in below table.

| Substance Name                                                                                                                                                                               | CAS No.     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>PFOS, its salts &amp; derivatives</b>                                                                                                                                                     |             |
| Perfluorooctane sulfonic acid (PFOS)                                                                                                                                                         | 1763-23-1   |
| Potassium Perfluorooctanesulfonate (PFOS-K)                                                                                                                                                  | 2795-39-3   |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)                                                                                                                                         | 29457-72-5  |
| Sodium perfluorooctanesulfonate (PFOS-Na)                                                                                                                                                    | 4021-47-0   |
| Ammonium perfluorooctanesulfonate (PFOS-NH <sub>4</sub> )                                                                                                                                    | 29081-56-9  |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )                                                                        | 70225-14-8  |
| Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                 | 56773-42-3  |
| N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                           | 111873-33-7 |
| Perfluorooctane Sulfonyl fluoride (PFOS-F)                                                                                                                                                   | 307-35-7    |
| Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)                                                                                                                                         | 91036-71-4  |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate                                                                                                                      | 71463-74-6  |
| Perfluorooctanesulfonate                                                                                                                                                                     | 45298-90-6  |
| Triethylammonium perfluorooctane sulfonate (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                                            | 54439-46-2  |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                                                                       | 56773-44-5  |
| N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))                                        | 56773-56-9  |
| N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))                                                   | 124472-68-0 |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)                                                                                                 | 213740-80-8 |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate                                                                                                                         | 258341-99-0 |



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| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate                                                                                                   | 334529-63-4  |
| N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate                                                                                     | 773895-92-4  |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ))                                            | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                                              | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN)                                                                                                         | 423-92-7     |
| <b>FOSAA, its salts</b>                                                                                                                             |              |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA)                                                                                                      | 2806-24-8    |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))                                                                                                | 909405-47-6  |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)                                                                                  | 75260-69-4   |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)                                                                                    | 115716-87-5  |
| <b>N-MeFOSAA, its salts</b>                                                                                                                         |              |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)                                                                                        | 2355-31-9    |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))                                                                                   | 909405-48-7  |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)                                                                      | 70281-93-5   |
| <b>N-EtFOSAA, its salts</b>                                                                                                                         |              |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)                                                                                           | 2991-50-6    |
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)                                                                 | 2991-51-7    |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))                                                                                   | 909405-49-8  |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )                                                                 | 2991-52-8    |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)                                                                                 | 3871-50-9    |
| <b>PFOSA, its salts</b>                                                                                                                             |              |
| Perfluorooctane Sulfonamide (PFOSA)                                                                                                                 | 754-91-6     |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)                                                                                            | 76752-79-9   |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)                                                                                             | 76752-78-8   |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)                                                                                           | 76752-70-0   |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )                                                                             | 76752-72-2   |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                    | 76752-82-4   |
| <b>PFOA, its salts &amp; derivatives</b>                                                                                                            |              |
| Perfluorooctanoic acid (PFOA)                                                                                                                       | 335-67-1     |
| Sodium perfluorooctanoate (PFOA-Na)                                                                                                                 | 335-95-5     |
| Potassium perfluorooctanoate (PFOA-K)                                                                                                               | 2395-00-8    |
| Silver perfluorooctanote (PFOA-Ag)                                                                                                                  | 335-93-3     |



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|                                                                                                              |              |
|--------------------------------------------------------------------------------------------------------------|--------------|
| Perfluorooctanoyl fluoride (PFOA-F)                                                                          | 335-66-0     |
| Ammonium pentadecafluorooctanoate (APFO)                                                                     | 3825-26-1    |
| Lithium perfluorooctanoate (PFOA-Li)                                                                         | 17125-58-5   |
| Cobalt perfluorooctanoate (PFOA-Co)                                                                          | 35965-01-6   |
| Cesium perfluorooctanoate (PFOA-Cs)                                                                          | 17125-60-9   |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))                    | 68141-02-6   |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))                   | 423-52-9     |
| Pentadecafluorooctanoate (anion)                                                                             | 45285-51-6   |
| Perfluorooctanoic Anhydride                                                                                  | 33496-48-9   |
| N,N,N-Triethylethanaminium perfluorooctanoate                                                                | 98241-25-9   |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium                                                              | 32609-65-7   |
| Tetrapropylammonium perfluorooctanoate                                                                       | 277749-00-5  |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )                   | 98065-31-7   |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)                   | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                          | 95658-47-2   |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> ) | 1514-68-7    |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)             | 927835-01-6  |

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.



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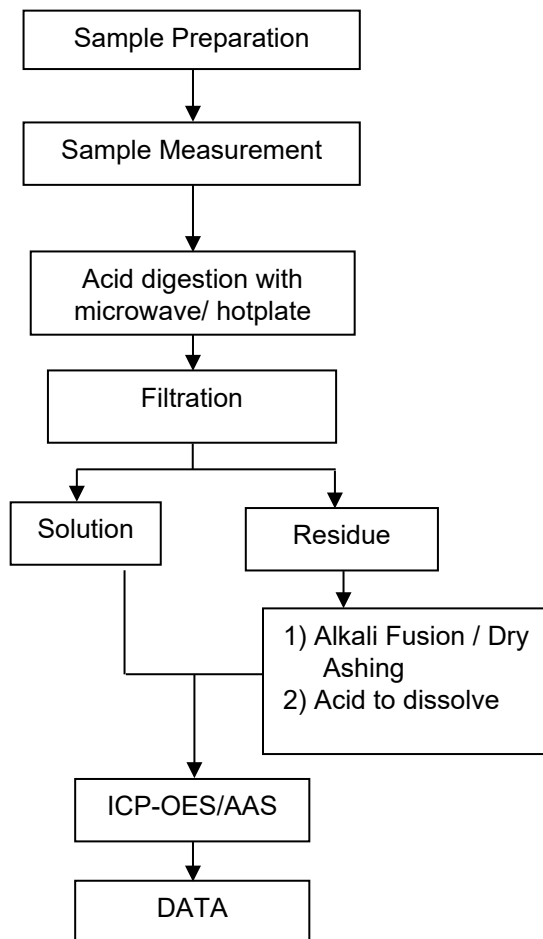
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### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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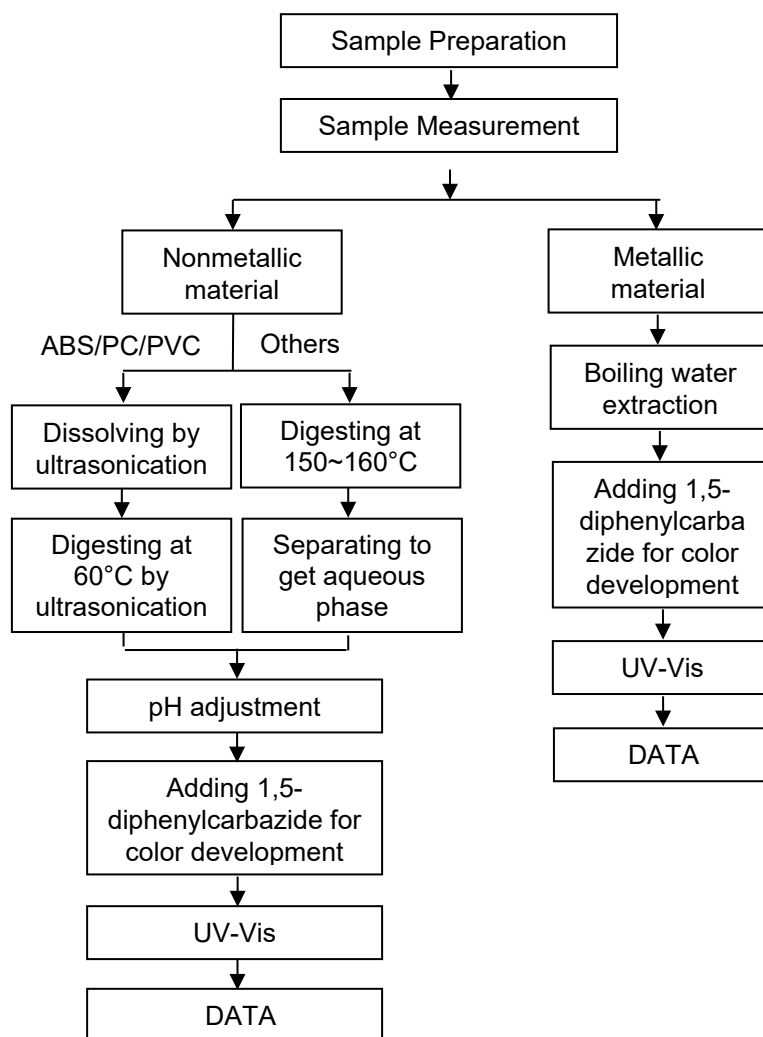
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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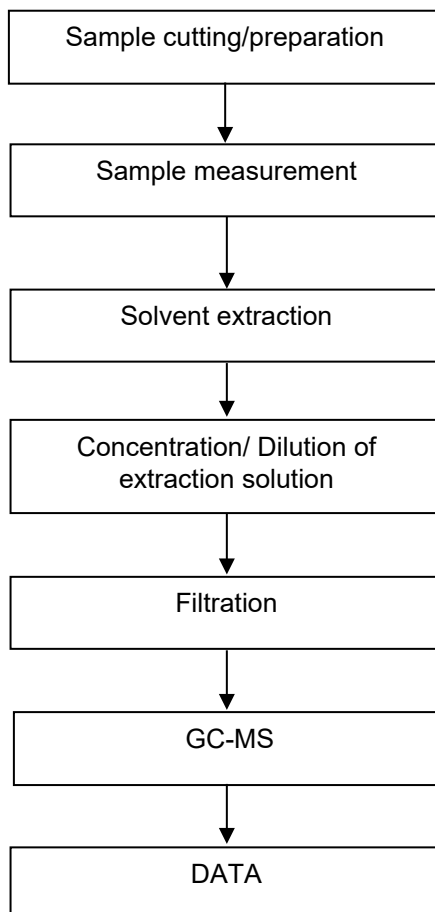
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### PBB/PBDE Testing Flow Chart



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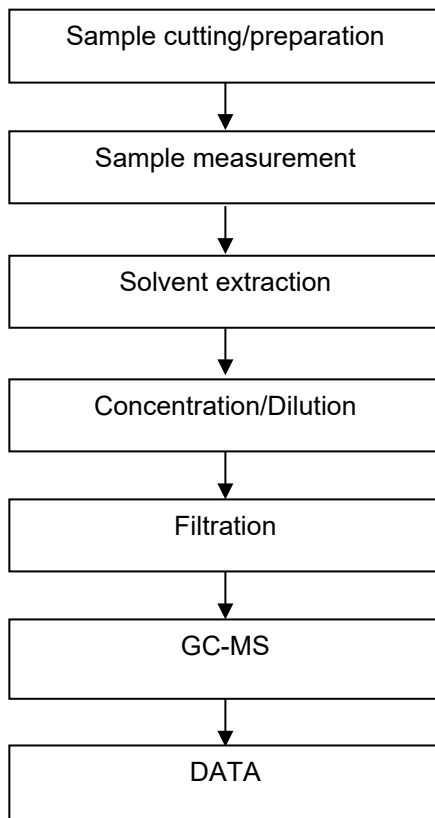
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### Phthalates Testing Flow Chart



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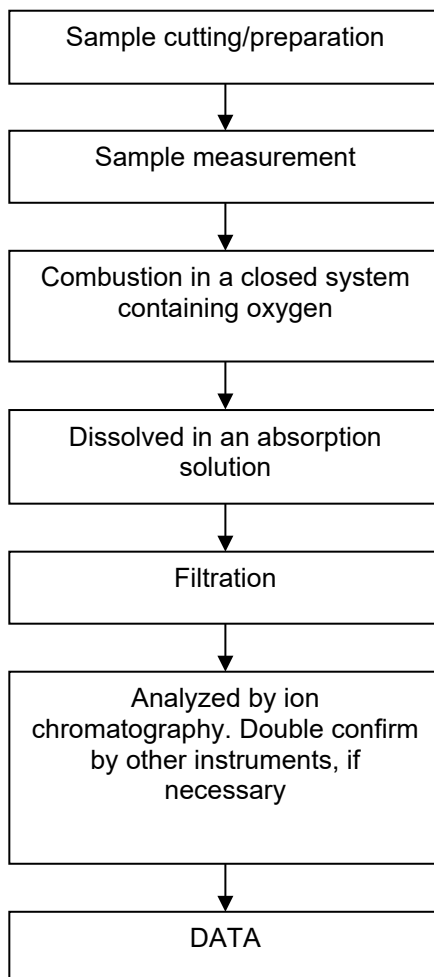
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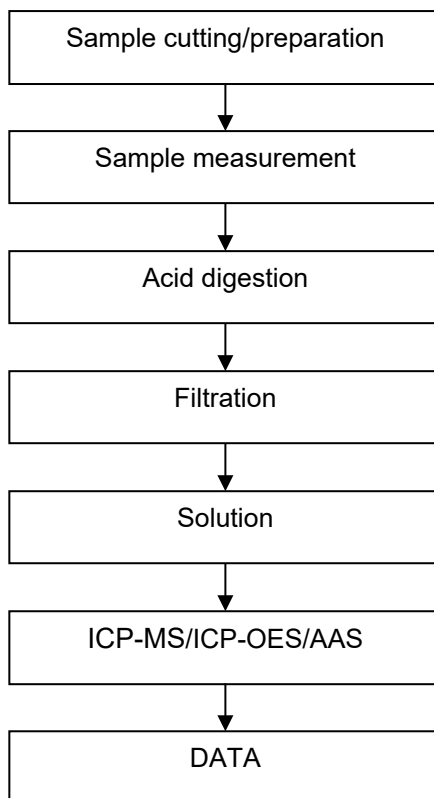
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#### Halogen Testing Flow Chart



## Elements Testing Flow Chart



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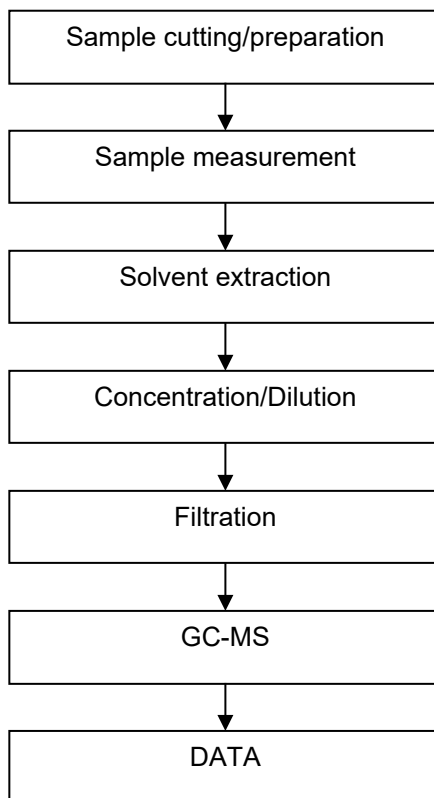
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### HBCDD Testing Flow Chart



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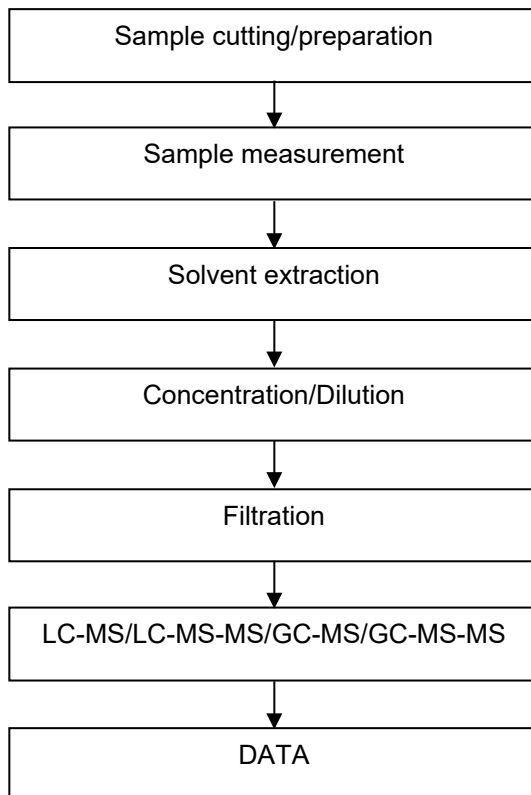
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## PFASs/ PFOS/PFOA Testing Flow Chart



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