

## Test Report

No.: CANEC25024238903

Date: Oct 27, 2025

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Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

Client Address: 23/F., DELTA HOUSE, NO.3 ON YIU STREET, SHATIN, N.T. HONG KONG.

Sample Name: FR-4

Model No.: PI-515G

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

SGS Job No.: GZP25-026218

Sample Receiving Date: Oct 09, 2025

Testing Period: Oct 09, 2025 ~ Oct 16, 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        |
| AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)                                                                                                                                                                                                                                                               | See Results |
| Tetrabromobisphenol A (TBBP-A)                                                                                                                                                                                                                                                                                            | See Results |
| Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)                                                                                                                                                                                                                                                     | See Results |
| Asbestos                                                                                                                                                                                                                                                                                                                  | See Results |
| Formaldehyde                                                                                                                                                                                                                                                                                                              | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                            | See Results |
| Phthalates                                                                                                                                                                                                                                                                                                                | 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 Requirement                                       | Conclusion  |
|--------------------------------------------------------|-------------|
| Halogen                                                | See Results |
| Red Phosphorus                                         | See Results |
| Element(s)                                             | See Results |
| PFOS, its salts and related compounds, PFOA, its salts | See Results |

### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                      |
|-------|------------|-------------------------|----------------------------------|
| SN1   | A1         | CAN25-0242389-0001.C001 | 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 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                            | Limit | Unit(s) | MDL | A1 |
|-----------------------------------------|-------|---------|-----|----|
| Lead (Pb)                               | 1000  | mg/kg   | 2   | 14 |
| Mercury (Hg)                            | 1000  | mg/kg   | 2   | ND |
| Cadmium (Cd)                            | 100   | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))            | 1000  | mg/kg   | 8   | ND |
| Polybrominated biphenyls (PBB)          | 1000  | mg/kg   | -   | ND |
| Monobrominated biphenyl (MonoBB)        | -     | mg/kg   | 25  | ND |
| Dibrominated biphenyl (DiBB)            | -     | mg/kg   | 25  | ND |
| Tribrominated biphenyl (TriBB)          | -     | mg/kg   | 25  | ND |
| Tetrabrominated biphenyl (TetraBB)      | -     | mg/kg   | 25  | ND |
| Pentabrominated biphenyl (PentaBB)      | -     | mg/kg   | 25  | ND |
| Hexabrominated biphenyl (HexaBB)        | -     | mg/kg   | 25  | ND |
| Heptabrominated biphenyl (HeptaBB)      | -     | mg/kg   | 25  | ND |
| Octabrominated biphenyl (OctaBB)        | -     | mg/kg   | 25  | ND |
| Nonabrominated biphenyl (NonaBB)        | -     | mg/kg   | 25  | ND |
| Decabrominated biphenyl (DecaBB)        | -     | mg/kg   | 25  | ND |
| Polybrominated diphenyl ethers (PBDE)   | 1000  | mg/kg   | -   | ND |
| Monobrominated diphenyl ether (MonoBDE) | -     | mg/kg   | 25  | ND |
| Dibrominated diphenyl ether (DiBDE)     | -     | mg/kg   | 25  | ND |
| Tribrominated diphenyl ether (TriBDE)   | -     | mg/kg   | 25  | ND |



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| Test Item(s)                              | Limit | Unit(s) | MDL | A1 |
|-------------------------------------------|-------|---------|-----|----|
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | 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.

## AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

**Test Method:** With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

| Test Item(s)                                                              | CAS No.  | Unit(s) | MDL | A1 |
|---------------------------------------------------------------------------|----------|---------|-----|----|
| Benzo(a)pyrene(BaP)                                                       | 50-32-8  | mg/kg   | 0.1 | ND |
| Benzo(e)pyrene(BeP)                                                       | 192-97-2 | mg/kg   | 0.1 | ND |
| Benzo(a)anthracene(BaA)                                                   | 56-55-3  | mg/kg   | 0.1 | ND |
| Benzo(b)fluoranthene(BbF)                                                 | 205-99-2 | mg/kg   | 0.1 | ND |
| Benzo(j)fluoranthene(BjF)                                                 | 205-82-3 | mg/kg   | 0.1 | ND |
| Benzo(k)fluoranthene(BkF)                                                 | 207-08-9 | mg/kg   | 0.1 | ND |
| Chrysene(CHR)                                                             | 218-01-9 | mg/kg   | 0.1 | ND |
| Dibenzo(a,h)Anthracene(DBA)                                               | 53-70-3  | mg/kg   | 0.1 | ND |
| Benzo(g,h,i)perylene(BPE)                                                 | 191-24-2 | mg/kg   | 0.1 | ND |
| Indeno(1,2,3-c,d)pyrene(IPY)                                              | 193-39-5 | mg/kg   | 0.1 | ND |
| Phenanthrene(PHE)                                                         | 85-01-8  | mg/kg   | 0.1 | ND |
| Pyrene(PYR)                                                               | 129-00-0 | mg/kg   | 0.1 | ND |
| Anthracene(ANT)                                                           | 120-12-7 | mg/kg   | 0.1 | ND |
| Fluoranthene(FLT)                                                         | 206-44-0 | mg/kg   | 0.1 | ND |
| Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT) | -        | mg/kg   | -   | ND |
| Naphthalene(NAP)                                                          | 91-20-3  | mg/kg   | 0.1 | ND |



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| Test Item(s)      | CAS No. | Unit(s) | MDL | A1 |
|-------------------|---------|---------|-----|----|
| Sum of 15 PAHs    | -       | mg/kg   | -   | ND |
| Material Category | -       | -       | -   | -  |

## Notes:

AfPS (German commission for Product Safety) : PAHs requirements

| Parameter                          | Category 1                                                                                                                                                                                                                                                   | Category 2                                                                                                                                                                                       |                               | Category 3                                                                                                                                              |                               |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                    | Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use<br>-in toys according to Directive 2009/48/EC or<br>-for the use by children <sup>a,b</sup> up to 3 years of age. | Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> . |                               | Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use. |                               |
|                                    |                                                                                                                                                                                                                                                              | a.<br>use by children                                                                                                                                                                            | b.<br>other consumer products | a.<br>use by children                                                                                                                                   | b.<br>other consumer products |
| Benzo(a)pyrene (BaP) mg/kg         | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(e)pyrene (BeP) mg/kg         | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(a)anthracene (BaA) mg/kg     | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(b)fluoranthene (BbF) mg/kg   | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(j)fluoranthene (BjF) mg/kg   | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(k)fluoranthene (BkF) mg/kg   | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Chrysene (CHR) mg/kg               | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Dibenzo(a,h)anthracene (DBA) mg/kg | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(g,h,i)perylene (BPE) mg/kg   | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Indeno(1,2,3-cd)pyrene (IPY) mg/kg | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |



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|                                                                                           |         |         |          |          |          |
|-------------------------------------------------------------------------------------------|---------|---------|----------|----------|----------|
| Phenanthrene (PHE),<br>pyrene (PYR),<br>anthracene (ANT),<br>fluoranthene (FLT),<br>mg/kg | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Naphthalene (NAP)<br>mg/kg                                                                | < 1     | < 2     |          | < 10     |          |
| <b>Sum of 15 PAHs</b>                                                                     | <1      | < 5     | < 10     | < 20     | < 50     |

### Notes:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

### Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

### Tetrabromobisphenol A (TBBP-A)

**Test Method:** With reference to US EPA 3550C: 2007, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

| Test Item(s)                  | CAS No. | Unit(s) | MDL | A1 |
|-------------------------------|---------|---------|-----|----|
| Tetrabromobisphenol A(TBBP-A) | 79-94-7 | mg/kg   | 5   | ND |

### Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)

**Test Method:** With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

| Test Item(s)                                                                                    | CAS No.               | Unit(s) | MDL | A1 |
|-------------------------------------------------------------------------------------------------|-----------------------|---------|-----|----|
| Alkanes C <sub>14</sub> -C <sub>17</sub> , chloro (medium- chain chlorinated paraffins) (MCCPs) | 85535-85-9 and others | mg/kg   | 50  | ND |

### Asbestos

**Test Method:** With reference to NIOSH 9000:2015 / NIOSH 9002:1994, analysis was performed by XRD / PLM.

| Test Item(s) | CAS No.                  | Unit(s) | MDL | A1       |
|--------------|--------------------------|---------|-----|----------|
| Chrysotile   | 12001-29-5 / 132207-32-0 | %(m/m)  | 0.1 | Negative |
| Amosite      | 12172-73-5               | %(m/m)  | 0.1 | Negative |
| Crocidolite  | 12001-28-4               | %(m/m)  | 0.1 | Negative |



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| Test Item(s)  | CAS No.    | Unit(s) | MDL | A1       |
|---------------|------------|---------|-----|----------|
| Anthophyllite | 77536-67-5 | %(m/m)  | 0.1 | Negative |
| Tremolite     | 77536-68-6 | %(m/m)  | 0.1 | Negative |
| Actinolite    | 77536-66-4 | %(m/m)  | 0.1 | Negative |

### Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

### Formaldehyde

**Test Method:** With reference to ISO 14184-1:2011, analysis was performed by UV-Vis.

| Test Item(s) | Unit(s) | MDL | A1 |
|--------------|---------|-----|----|
| Formaldehyde | mg/kg   | 16  | 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 | A1 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|-----|----|
| 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 |

### Phthalates

**Test Method:** With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

| Test Item(s)                        | CAS No.                   | Unit(s) | MDL | A1 |
|-------------------------------------|---------------------------|---------|-----|----|
| Dibutyl Phthalate (DBP)             | 84-74-2                   | mg/kg   | 50  | ND |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7                  | mg/kg   | 50  | ND |
| Benzyl Butyl Phthalate (BBP)        | 85-68-7                   | mg/kg   | 50  | ND |
| Diisononyl Phthalate (DINP)         | 28553-12-0<br>/68515-48-0 | mg/kg   | 50  | ND |
| Di-n-Octyl Phthalate (DNOP)         | 117-84-0                  | mg/kg   | 50  | ND |
| Diisodecyl Phthalate (DIDP)         | 26761-40-0<br>/68515-49-1 | mg/kg   | 50  | ND |
| Diisobutyl Phthalate (DIBP)         | 84-69-5                   | mg/kg   | 50  | ND |
| Bis(2-methoxyethyl)phthalate (DMEP) | 117-82-8                  | mg/kg   | 50  | ND |
| Di-n-Hexyl Phthalate (DnHP)         | 84-75-3                   | mg/kg   | 50  | ND |
| Dipentyl Phthalate (DPENP/DnPP)     | 131-18-0                  | mg/kg   | 50  | ND |
| Diphenyl Phthalate (DPhP)           | 84-62-8                   | mg/kg   | 50  | ND |
| Diundecyl Phthalate (DUDP)          | 3648-20-2                 | mg/kg   | 50  | ND |
| Dimethyl Phthalate (DMP)            | 131-11-3                  | mg/kg   | 50  | ND |
| Diethyl Phthalate (DEP)             | 84-66-2                   | mg/kg   | 50  | ND |
| Dipropyl Phthalate (DPrP)           | 131-16-8                  | mg/kg   | 50  | ND |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                   | mg/kg   | 50  | ND |
| Dibenzyl Phthalate (DBzP)           | 523-31-9                  | mg/kg   | 50  | ND |



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| Test Item(s)                                                                  | CAS No.     | Unit(s) | MDL | A1 |
|-------------------------------------------------------------------------------|-------------|---------|-----|----|
| Dinonyl Phthalate(DNP)                                                        | 84-76-4     | mg/kg   | 50  | ND |
| Diisooctyl Phthalate(DIOP)                                                    | 27554-26-3  | mg/kg   | 50  | ND |
| Diallyl Phthalate(DAP)                                                        | 131-17-9    | mg/kg   | 50  | ND |
| n-Decyl-n-Octyl Phthalate(nDnOP)                                              | 119-07-3    | mg/kg   | 50  | ND |
| Di-n-Decyl Phthalate(DnDP)                                                    | 84-77-5     | mg/kg   | 50  | ND |
| Diisopentyl Phthalate(DIPP)                                                   | 605-50-5    | mg/kg   | 50  | ND |
| n-pentyl Isopentyl Phthalate(nPIPP)                                           | 776297-69-9 | mg/kg   | 50  | ND |
| Bis(2-n-butoxyethyl)Phthalate(DBEP)                                           | 117-83-9    | mg/kg   | 50  | ND |
| Bis(4-methyl-2-pentyl)Phthalate(BMPP)                                         | 146-50-9    | mg/kg   | 50  | ND |
| Bis(2-ethoxyethyl)Phthalate(DEEP)                                             | 605-54-9    | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)      | 71888-89-6  | mg/kg   | 50  | ND |
| Di-n-Heptyl Phthalate(DnHpP)                                                  | 3648-21-3   | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) | 68515-42-4  | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear(DPP)          | 84777-06-0  | mg/kg   | 50  | ND |
| Ditridecyl Phthalate(DTDP)                                                    | 119-06-2    | mg/kg   | 50  | ND |
| 1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)          | 68515-50-4  | mg/kg   | 50  | ND |
| Di-(2-Ethylhexyl)Adipate(DEHA)                                                | 103-23-1    | mg/kg   | 50  | ND |
| Dioctyl Terephthalate(DOTP)                                                   | 6422-86-2   | mg/kg   | 50  | ND |
| Diisononyl Adipate(DINA)                                                      | 33703-08-1  | mg/kg   | 50  | ND |
| Di(2-propylheptyl)Phthalate(DPHpP)                                            | 53306-54-0  | mg/kg   | 50  | ND |
| Acetyl Tributyl Citrate(ATBC)                                                 | 77-90-7     | mg/kg   | 50  | ND |
| Trioctyl trimellitate(TOTM)                                                   | 3319-31-1   | mg/kg   | 50  | ND |

## Halogen

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

| Test Item(s) | Unit(s) | MDL | A1  |
|--------------|---------|-----|-----|
| Fluorine(F)  | mg/kg   | 20  | 728 |
| Chlorine(Cl) | mg/kg   | 50  | 204 |
| Bromine(Br)  | mg/kg   | 50  | ND  |
| Iodine(I)    | mg/kg   | 50  | ND  |

## Red Phosphorus

**Test Method:** SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ICP-OES / GC-MS.

| Test Item(s)   | CAS No.   | Unit(s) | MDL | A1 |
|----------------|-----------|---------|-----|----|
| Red Phosphorus | 7723-14-0 | mg/kg   | 500 | ND |

## Element(s)

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



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| Test Item(s)  | Unit(s) | MDL | A1 |
|---------------|---------|-----|----|
| Arsenic(As)   | mg/kg   | 10  | ND |
| Beryllium(Be) | mg/kg   | 5   | ND |
| Nickel (Ni)   | mg/kg   | 5   | ND |
| Antimony(Sb)  | mg/kg   | 10  | ND |

## PFOS, its salts and related compounds,PFOA, its salts

**Test Method:** Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS.

| Test Item(s)                                                             | CAS No.    | Unit(s) | MDL   | A1 |
|--------------------------------------------------------------------------|------------|---------|-------|----|
| <b>PFOS, its salts</b>                                                   |            |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts^                         | 1763-23-1  | mg/kg   | 0.010 | ND |
| <b>PFOS-related compounds</b>                                            |            |         |       |    |
| 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^                          | 754-91-6   | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^               | 2806-24-8  | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^ | 2355-31-9  | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^    | 2991-50-6  | mg/kg   | 0.010 | ND |
| Sum of PFOS-related compounds                                            | -          | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                   |            |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts^                                | 335-67-1   | mg/kg   | 0.010 | ND |

### Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

| Substances 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 |



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|                                                                                                                                                                                                  |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-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(heptadecafluorooctanesulphonate) (PFOS-Mg)                                                                                                                                         | 91036-71-4   |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate                                                                                                                      | 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 heptadecafluorooctane-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 heptadecafluorooctane-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  |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate                                                                                                                                                | 334529-63-4  |
| N,N,N-Triethyldecyl-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     |
| Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)                                                                                                                                                    | 423-60-9     |
| <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   |



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|                                                                                                                 |              |
|-----------------------------------------------------------------------------------------------------------------|--------------|
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOA-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 perfluorooctanoate (PFOA-Ag)                                                                             | 335-93-3     |
| 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  |
| Pentadecafluorooctanoyl chloride (PFOA-Cl)                                                                      | 335-64-8     |

Remark: Results & photo(s) of this report refer to test report CANEC25024238901 .

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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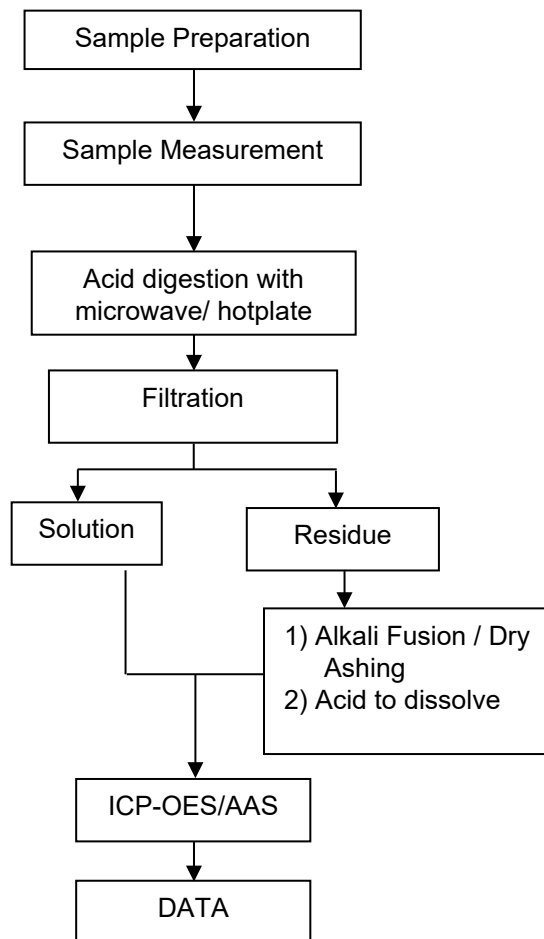
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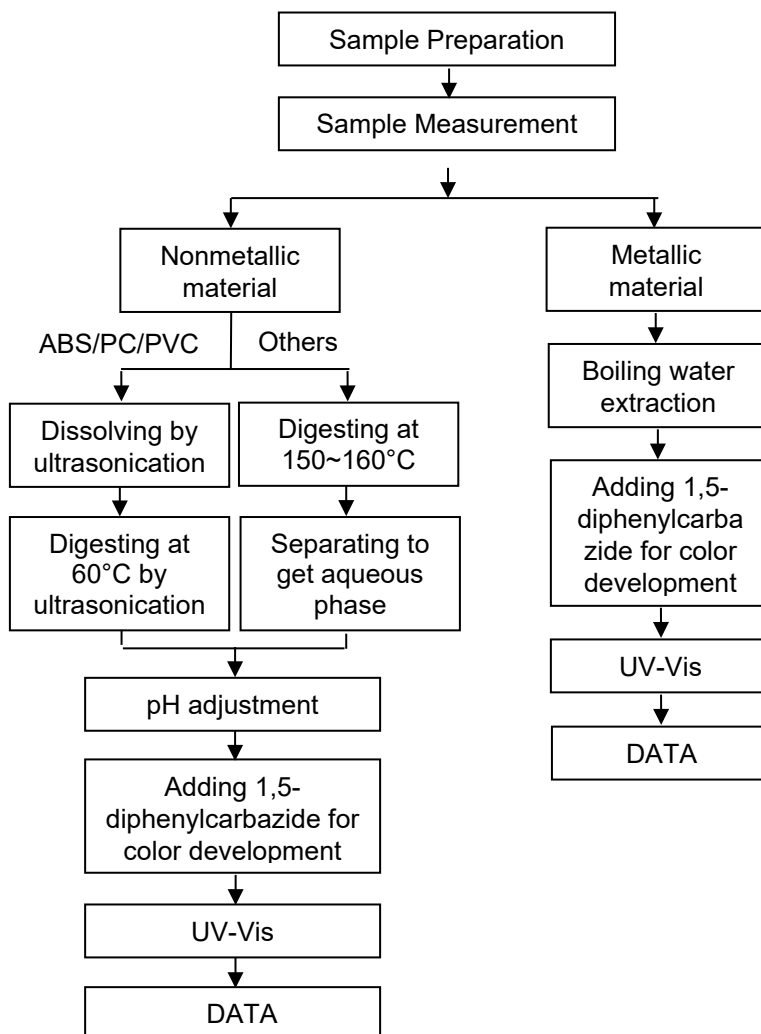
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#### Elements Testing Flow Chart

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



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





## Test Report

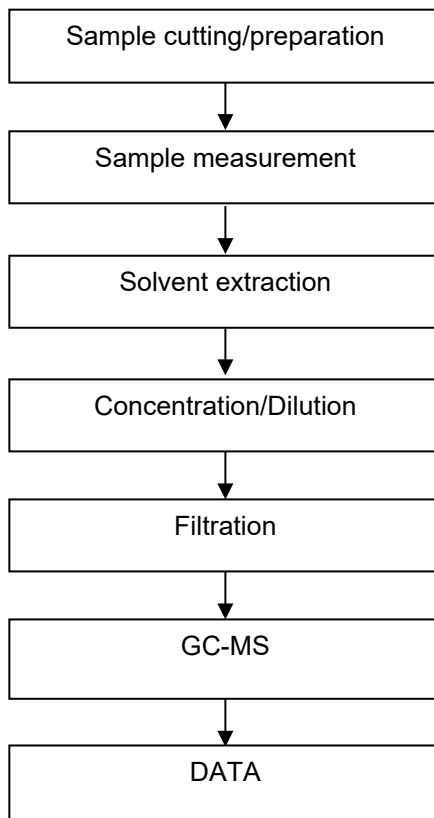
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### PBB(s)/PBDE(s)/Phthalates Testing Flow Chart



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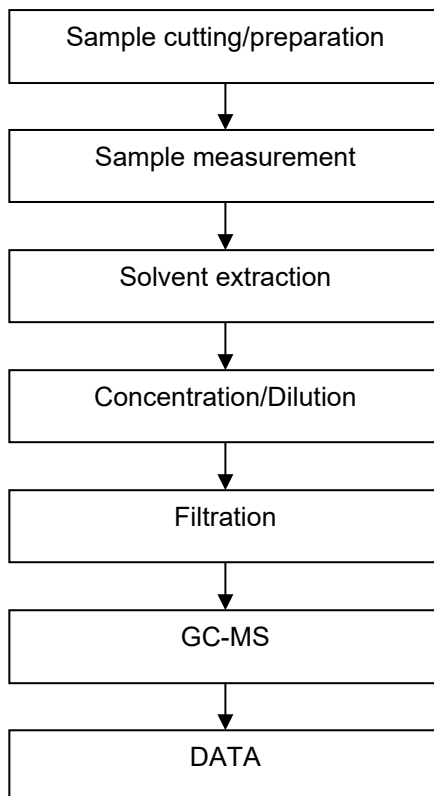
## Test Report ATTACHMENTS

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### PAHs Testing Flow Chart



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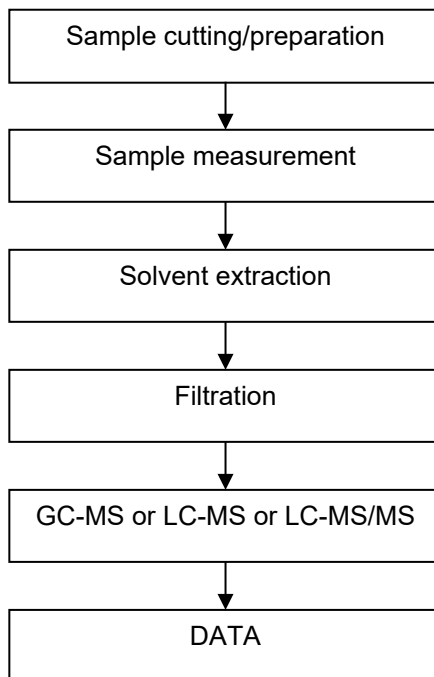
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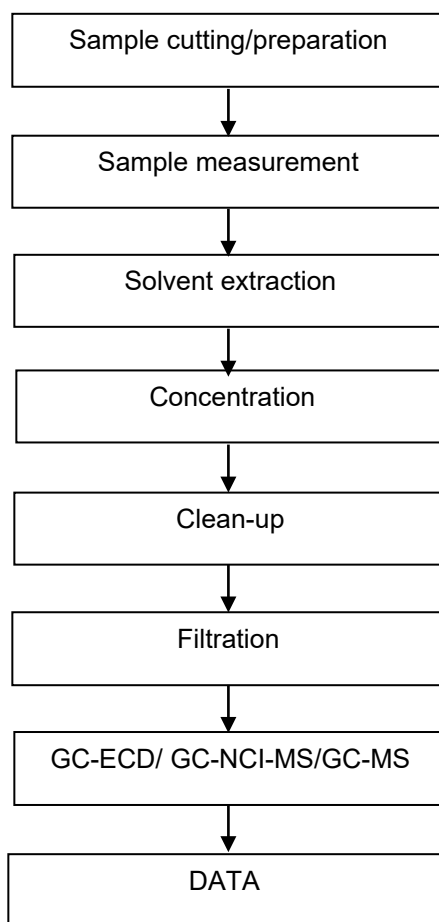
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#### TBBP-A Testing Flow Chart



## Chlorinated Paraffin Testing Flow Chart





## Test Report

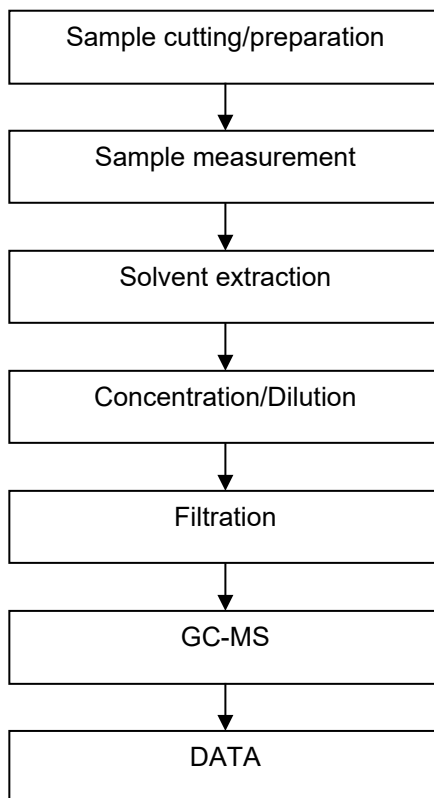
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#### HBCDD Testing Flow Chart



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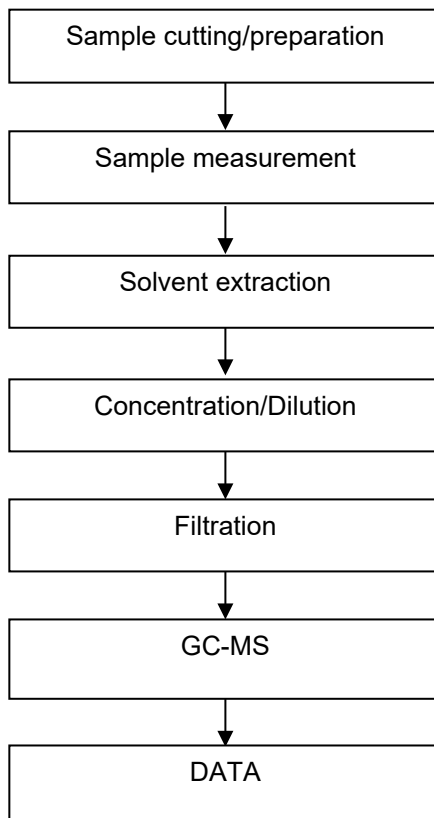
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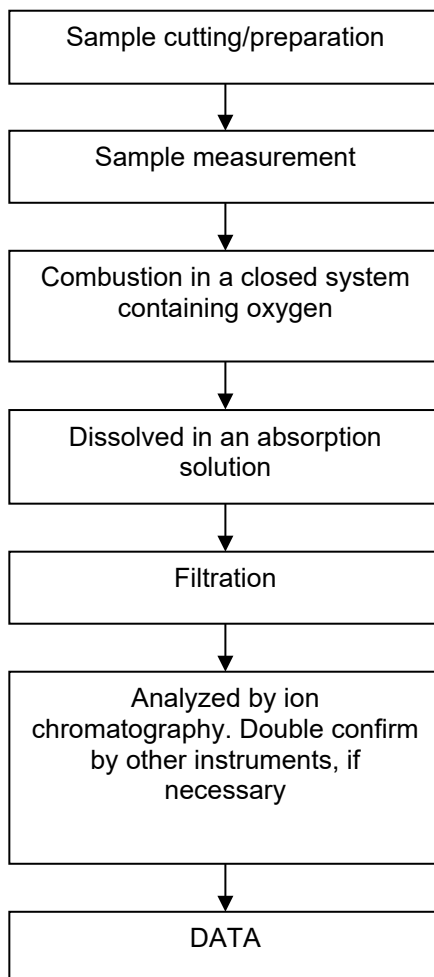
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#### Phthalates Testing Flow Chart

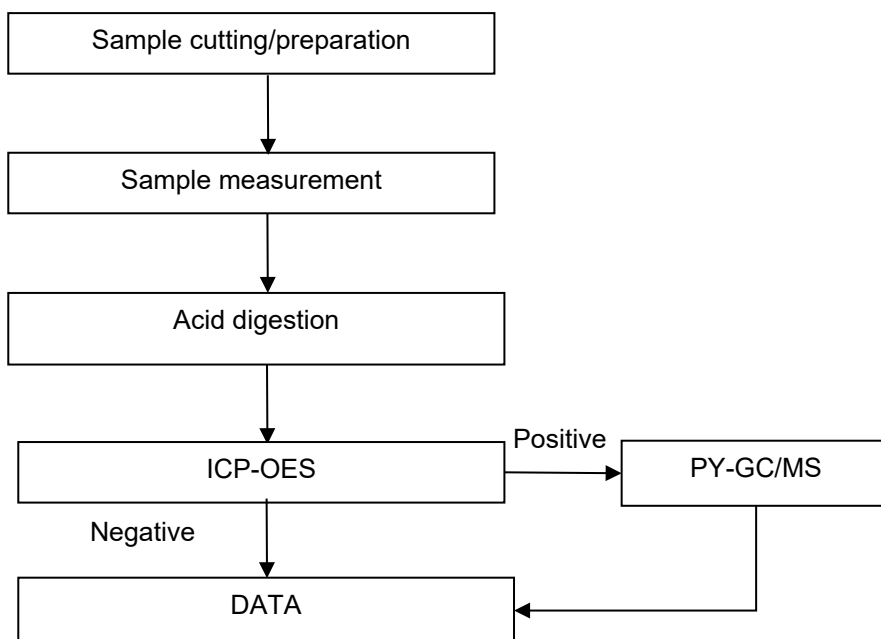


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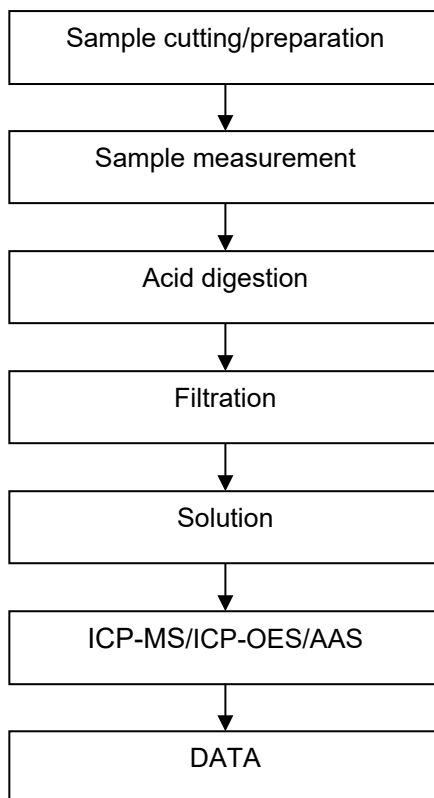


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#### Red phosphorus Testing Flow Chart

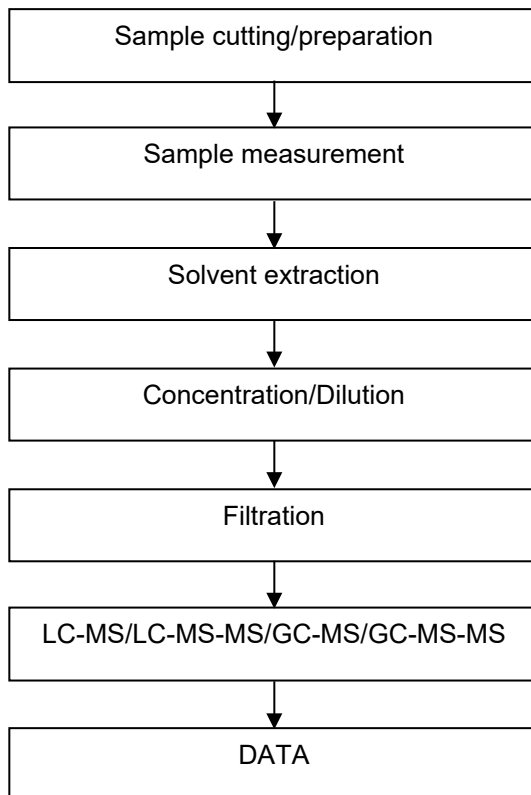


## Elements Testing Flow Chart





## PFASs/ PFOS/PFOA Testing Flow Chart



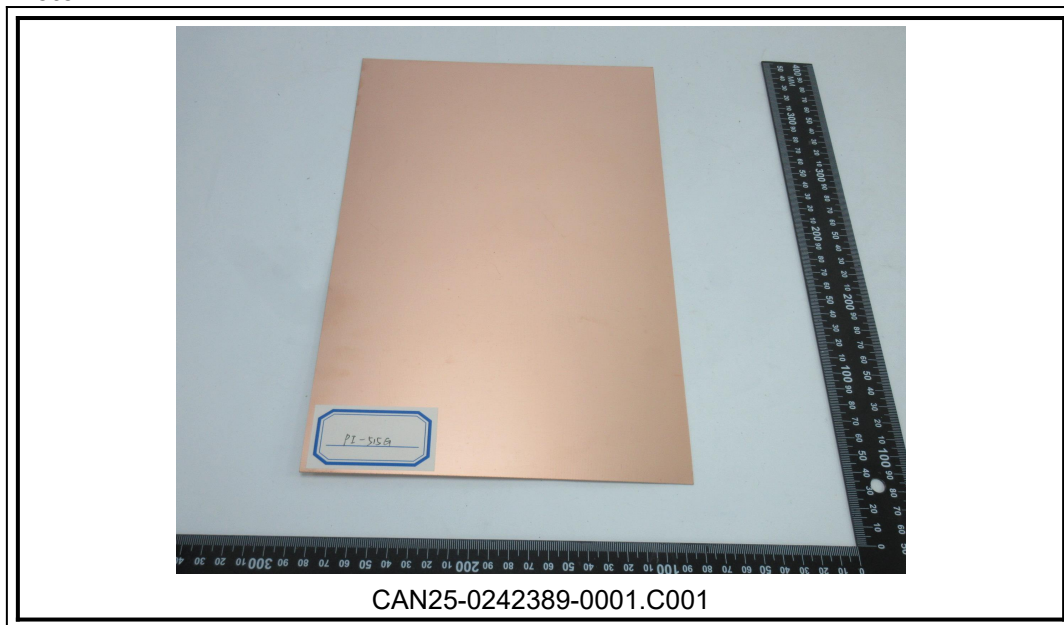
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Sample Photo:



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