

## Test Report

No.: CANEC25018680904

Date: Aug 15, 2025

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Client Name: QPL LIMITED

Client Address: NO. 9 MU LIN ROAD, CHANG AN TOWN, DONGGUAN, GUANGDONG, PEOPLE'S REPUBLIC CHINA.

Sample Name: CDA15100 (C151, A151)

Client Ref. Information: Sample may cover PDIP, PLCC, QFN, FCQFN, PQFN, DFN, LPCC, QFP, LQFP, TQFP, SIP, SOIC, SOP, SSOP, TSOP TSSOP, SOT, SOD, TO, ZIP, FBP, LED, LFGA/ELP, HD-BU, HD-EB Leadframes and Heatsinks

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

SGS Job No.: SZP25-036370

Sample Receiving Date: Jul 31, 2025

Testing Period: Jul 31, 2025 ~ Aug 06, 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        |
| Tetrabromobisphenol A (TBBP-A)                                                                                                                                                                                                                                                                                            | See Results |
| Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)                                                                                                                                                                                                                                                     | See Results |
| European Regulation POPs (EU) 2019/1021 Annex I- Alkanes C <sub>10</sub> -C <sub>13</sub> , chloro (short chain-chlorinated paraffins) (SCCPs)                                                                                                                                                                            | Pass        |
| Halogen                                                                                                                                                                                                                                                                                                                   | See Results |
| Element(s)                                                                                                                                                                                                                                                                                                                | 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  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds | Pass        |
| Phthalates                                                                                                                                                                                                                          | See Results |
| Dimethyl fumarate (DMFu)                                                                                                                                                                                                            | See Results |
| Flame Retardants                                                                                                                                                                                                                    | See Results |
| Organic-Tin compounds                                                                                                                                                                                                               | See Results |
| PCBs                                                                                                                                                                                                                                | See Results |
| PCNs                                                                                                                                                                                                                                | See Results |
| PCTs                                                                                                                                                                                                                                | See Results |
| Polyvinyl chloride (PVC)                                                                                                                                                                                                            | See Results |

## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                   |
|-------|------------|-------------------------|-------------------------------|
| SN1   | A4         | CAN25-0186809-0001.C004 | Copper-colored surfaced metal |

### 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 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                     | Limit | Unit(s)            | MDL  | A4 |
|----------------------------------|-------|--------------------|------|----|
| 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))▼    | -     | µg/cm <sup>2</sup> | 0.10 | 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 |



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| Test Item(s)                              | Limit | Unit(s) | MDL | A4 |
|-------------------------------------------|-------|---------|-----|----|
| 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 |
| 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) ▼ =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu\text{g}/\text{cm}^2$ . The sample coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10  $\mu\text{g}/\text{cm}^2$ ). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

## 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.



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| Test Item(s)                  | CAS No. | Unit(s) | MDL | A4 |
|-------------------------------|---------|---------|-----|----|
| 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 | A4 |
|-------------------------------------------------------------------------------------------------|-----------------------|---------|-----|----|
| Alkanes C <sub>14</sub> -C <sub>17</sub> , chloro (medium- chain chlorinated paraffins) (MCCPs) | 85535-85-9 and others | mg/kg   | 50  | ND |

## European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C<sub>10</sub>-C<sub>13</sub>, chloro (short chain-chlorinated paraffins) (SCCPs)

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

| Test Item(s)                                                                                   | CAS No.               | Limit | Unit(s) | MDL | A4          |
|------------------------------------------------------------------------------------------------|-----------------------|-------|---------|-----|-------------|
| Alkanes, C <sub>10</sub> -C <sub>13</sub> , chloro (short chain-chlorinated paraffins) (SCCPs) | 85535-84-8 and others | 1500  | mg/kg   | 50  | ND          |
| <b>Conclusion</b>                                                                              |                       |       |         |     | <b>Pass</b> |

## Halogen

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

| Test Item(s) | Unit(s) | MDL | A4 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| 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 3050B:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s)                                         | Unit(s) | MDL | A4 |
|------------------------------------------------------|---------|-----|----|
| Arsenic(As)                                          | mg/kg   | 10  | ND |
| Beryllium(Be)                                        | mg/kg   | 5   | ND |
| Antimony(Sb)                                         | mg/kg   | 10  | ND |
| Tin(Sn)                                              | mg/kg   | 5   | ND |
| Antimony Trioxide(Sb <sub>2</sub> O <sub>3</sub> ) ◆ | mg/kg   | 12  | ND |

## Notes:

(1) ◆ Calculated concentration of Sb<sub>2</sub>O<sub>3</sub> is based on the identified Sb.

## European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds



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

| Test Item(s)                                                                                        | CAS No.     | Limit | Unit(s) | MDL   | A4 |
|-----------------------------------------------------------------------------------------------------|-------------|-------|---------|-------|----|
| <b>PFOS, its salts</b>                                                                              |             |       |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup>                                        | 1763-23-1   | 0.025 | 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 <sup>^</sup>                                         | 754-91-6    | -     | mg/kg   | 0.010 | ND |
| 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 PFOS-related compounds                                                                       | -           | 1     | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                                              |             |       |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts <sup>^</sup>                                               | 335-67-1    | 0.025 | mg/kg   | 0.010 | ND |
| <b>PFOA-related compounds</b>                                                                       |             |       |         |       |    |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts <sup>^</sup>                          | 39108-34-4  | 1     | mg/kg   | 0.010 | ND |
| Methyl perfluorooctanoate (Me-PFOA)                                                                 | 376-27-2    | 1     | mg/kg   | 0.200 | ND |
| Ethyl perfluorooctanoate (Et-PFOA)                                                                  | 3108-24-5   | 1     | mg/kg   | 0.200 | ND |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)                                                  | 1996-88-9   | 1     | mg/kg   | 0.100 | ND |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)                                                       | 27905-45-9  | 1     | mg/kg   | 0.100 | ND |
| Perfluoro-1-iodooctane (PFOI)                                                                       | 507-63-1    | 1     | mg/kg   | 0.200 | ND |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts <sup>^</sup>                                       | 27854-31-5  | 1     | mg/kg   | 0.010 | ND |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)                                                          | 678-39-7    | 1     | mg/kg   | 0.100 | ND |
| 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)                                                        | 2043-53-0   | 1     | mg/kg   | 0.100 | ND |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ) | 101947-16-4 | 1     | mg/kg   | 0.100 | ND |



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| bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^                                                          | 678-41-1                  | 1     | mg/kg   | 0.010 | ND          |
| 2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts^                                                                                                     | 34598-33-9                | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H-Heptafluoro-1-decene (PFDE)                                                                                                                            | 21652-58-4                | 1     | mg/kg   | 0.100 | ND          |
| 3-Perfluoroheptyl propanoic acid (7:3 FTCA)                                                                                                                     | 812-70-4                  | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl <sub>3</sub> )/<br>1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) | 78560-44-8<br>/83048-65-1 | 1     | mg/kg   | 0.100 | ND          |
| 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)                                                                                                                        | 70887-84-2                | 1     | mg/kg   | 0.010 | ND          |
| 6:8 Perfluorophosphinic acid (6:8 PFPI)                                                                                                                         | 610800-34-5               | 1     | mg/kg   | 0.010 | ND          |
| 8:8 Perfluorophosphinic acid (8:8 PFPI), its salts^                                                                                                             | 40143-79-1                | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)                                                                                                                  | 37858-04-1                | 1     | mg/kg   | 0.100 | ND          |
| 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^                                                                                                 | 57678-03-2                | 1     | mg/kg   | 0.100 | ND          |
| Sum of PFOA-related compounds                                                                                                                                   | -                         | 1     | mg/kg   | -     | ND          |
| <b>Conclusion</b>                                                                                                                                               |                           |       |         |       | <b>Pass</b> |

### Notes:

- (1) According to Regulation (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I, the concentrations of PFOS or any of its salts equal to or below 0,025 mg/kg (0,000025 % by weight) and all PFOS-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or in articles. Date of applicability: From 3 December 2025.
- (2) ^=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<br>1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate<br>(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 |



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| 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-heptadecafluorooctanesulphonate                                                                              | 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-Triethyldecane-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     |



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| 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 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     |
| <b>8:2 FTS, its salts</b>                                                                                        |              |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)                                                               | 39108-34-4   |
| Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)                                                      | 438237-73-1  |
| Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH <sub>4</sub> )                                        | 149724-40-3  |
| Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)                                                        | 27619-96-1   |
| 2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))                                                            | 481071-78-7  |
| 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)                                                           | 27619-90-5   |
| <b>8:2 FTCA, its salts</b>                                                                                       |              |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA)                                                                            | 27854-31-5   |
| Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )        | 882489-14-7  |



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| <b>8:2diPAP, its salts</b>                                                               |              |
| Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) | 678-41-1     |
| Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)                            | 114519-85-6  |
| Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate                | 57677-97-1   |
| Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH <sub>4</sub> )        | 93776-20-6   |
| 8:2 Fluorotelomer phosphate diester ion (1-)                                             | 1411713-91-1 |
| <b>8:3 FTCA, its salts</b>                                                               |              |
| 2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)                                          | 34598-33-9   |
| Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)                                  | 83310-58-1   |
| 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)                                           | 67304-23-8   |
| <b>8:8 PFPI, its salts</b>                                                               |              |
| 8:8 Perfluorophosphinic acid (8:8 PFPI)                                                  | 40143-79-1   |
| Bis(heptafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)                           | 500776-69-2  |
| Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)                        | 500776-70-5  |
| Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)                     | 500776-71-6  |
| <b>8:2 monoPAP, its salts</b>                                                            |              |
| 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)                                      | 57678-03-2   |
| 8:2 Fluorotelomer diammonium phosphate                                                   | 93857-44-4   |
| Disodium 1H,1H,2H,2H-perfluorodecylphosphate                                             | 438237-75-3  |
| Ammonium bis[2-(perfluorohexyl)ethyl] phosphate                                          | 1764-95-0    |
| 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt                   | 92401-44-0   |
| Sodium 1H,1H,2H,2H-perfluorooctylphosphate                                               | 144965-22-0  |
| Monopotassium monoperfluorohexyl ethylphosphate                                          | 150033-28-6  |
| Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate                                      | 2353-52-8    |

(3) The conclusion is only applicable to the substance list in the report.

## Phthalates

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

| Test Item(s)                                                             | CAS No.                   | Unit(s) | MDL | A4 |
|--------------------------------------------------------------------------|---------------------------|---------|-----|----|
| 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 |
| 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 |
| 1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP) | 71888-89-6                | mg/kg   | 50  | ND |



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| Test Item(s)                                                                          | CAS No.    | Unit(s) | MDL | A4 |
|---------------------------------------------------------------------------------------|------------|---------|-----|----|
| 1,2-Benzenedicarboxylic Acid, Di-C7-11-<br>Branched and Linear Alkyl<br>Esters(DHNUP) | 68515-42-4 | mg/kg   | 50  | ND |

### Dimethyl fumarate (DMFu)

**Test Method:** Solvent extraction, analysis was performed by GC-MS.

| Test Item(s)             | CAS No.  | Unit(s) | MDL | A4 |
|--------------------------|----------|---------|-----|----|
| Dimethyl Fumarate (DMFu) | 624-49-7 | mg/kg   | 0.1 | ND |

### Flame Retardants

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

| Test Item(s)                   | CAS No.                                                                  | Unit(s) | MDL | A4 |
|--------------------------------|--------------------------------------------------------------------------|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg   | 5   | ND |

### Organic-Tin compounds

**Test Method:** SGS In-house method(GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

| Test Item(s)                    | Unit(s) | MDL  | A4 |
|---------------------------------|---------|------|----|
| Dibutyl tin(DBT)                | mg/kg   | 0.02 | ND |
| Tributyl tin(TBT)               | mg/kg   | 0.02 | ND |
| Diocetyl tin(DOT)               | mg/kg   | 0.02 | ND |
| Triphenyl tin(TPhT)             | mg/kg   | 0.02 | ND |
| Tri-n-propyltin(TPT)            | mg/kg   | 0.02 | ND |
| Bis(tributyltin) oxide (TBTO) ◆ | mg/kg   | 0.02 | ND |

### Notes:

(1) ◆ = TBTO is back calculated based on the worst-case scenario of TBT.

### PCBs

**Test Method:** SGS In-house method(GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007), analysis was performed by GC-ECD/GC-MS.

| Test Item(s)                    | CAS No.    | Unit(s) | MDL | A4 |
|---------------------------------|------------|---------|-----|----|
| PCBs                            | 1336-36-3  | mg/kg   | -   | ND |
| 2,2',5-Trichlorobiphenyl(PCB18) | 37680-65-2 | mg/kg   | 0.2 | ND |
| 2,4,4'-Trichlorobiphenyl(PCB28) | 7012-37-5  | mg/kg   | 0.2 | ND |



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| Test Item(s)                                           | CAS No.    | Unit(s) | MDL | A4 |
|--------------------------------------------------------|------------|---------|-----|----|
| 2,2',5,5'-Tetrachlorobiphenyl(PCB52)                   | 35693-99-3 | mg/kg   | 0.2 | ND |
| 2,2',4,5,5'-Pentachlorobiphenyl(PCB101)                | 37680-73-2 | mg/kg   | 0.2 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl(PCB118)                | 31508-00-6 | mg/kg   | 0.2 | ND |
| 2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138)              | 35065-28-2 | mg/kg   | 0.2 | ND |
| 2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153)              | 35065-27-1 | mg/kg   | 0.2 | ND |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180)           | 35065-29-3 | mg/kg   | 0.2 | ND |
| Sum of 6 PCBs(PCB28、PCB52、PCB101、PCB138、PCB153、PCB180) | -          | mg/kg   | -   | ND |
| Sum of PCBs                                            | -          | mg/kg   | -   | ND |

## PCNs

**Test Method:** SGS In-house method(GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007), analysis was performed by GC-ECD/GC-MS.

| Test Item(s)                           | CAS No.    | Unit(s) | MDL | A4 |
|----------------------------------------|------------|---------|-----|----|
| 1-Chlorinated Naphthalene              | 90-13-1    | mg/kg   | 5   | ND |
| 2-Chlorinated Naphthalene              | 91-58-7    | mg/kg   | 5   | ND |
| 1,4-Dichlorinated Naphthalene          | 1825-31-6  | mg/kg   | 5   | ND |
| 1,5-Dichlorinated Naphthalene          | 1825-30-5  | mg/kg   | 5   | ND |
| 1,2-Dichlorinated Naphthalene          | 2050-69-3  | mg/kg   | 5   | ND |
| 1,8-Dichlorinated Naphthalene          | 2050-74-0  | mg/kg   | 5   | ND |
| 1,2,3-Trichlorinated Naphthalene       | 50402-52-3 | mg/kg   | 5   | ND |
| 1,2,3,4-Tetrachlorinated Naphthalene   | 20020-02-4 | mg/kg   | 5   | ND |
| 1,2,3,4,6-Pentachlorinated Naphthalene | 67922-26-3 | mg/kg   | 5   | ND |
| Octa-Chlorinated Naphthalene           | 2234-13-1  | mg/kg   | 5   | ND |
| Sum of PCNs                            | -          | mg/kg   | -   | ND |

## PCTs

**Test Method:** SGS In-house method(GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007), analysis was performed by GC-ECD/GC-MS.

| Test Item(s) | CAS No.    | Unit(s) | MDL | A4 |
|--------------|------------|---------|-----|----|
| Aroclor 5432 | 63496-31-1 | mg/kg   | 2   | ND |
| Aroclor 5442 | 12642-23-8 | mg/kg   | 2   | ND |
| Aroclor 5460 | 11126-42-4 | mg/kg   | 2   | ND |
| Sum of PCTs  | -          | mg/kg   | -   | ND |

## Polyvinyl chloride (PVC)

**Test Method:** SGS In-house method(SGS-CCL-TOP-066-01), analysis was performed by FTIR/HATR.



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|                          |          |
|--------------------------|----------|
| Test Item(s)             | A4       |
| Polyvinyl chloride (PVC) | Negative |

### Notes:

(1) Negative=Undetectable, Positive=Detectable

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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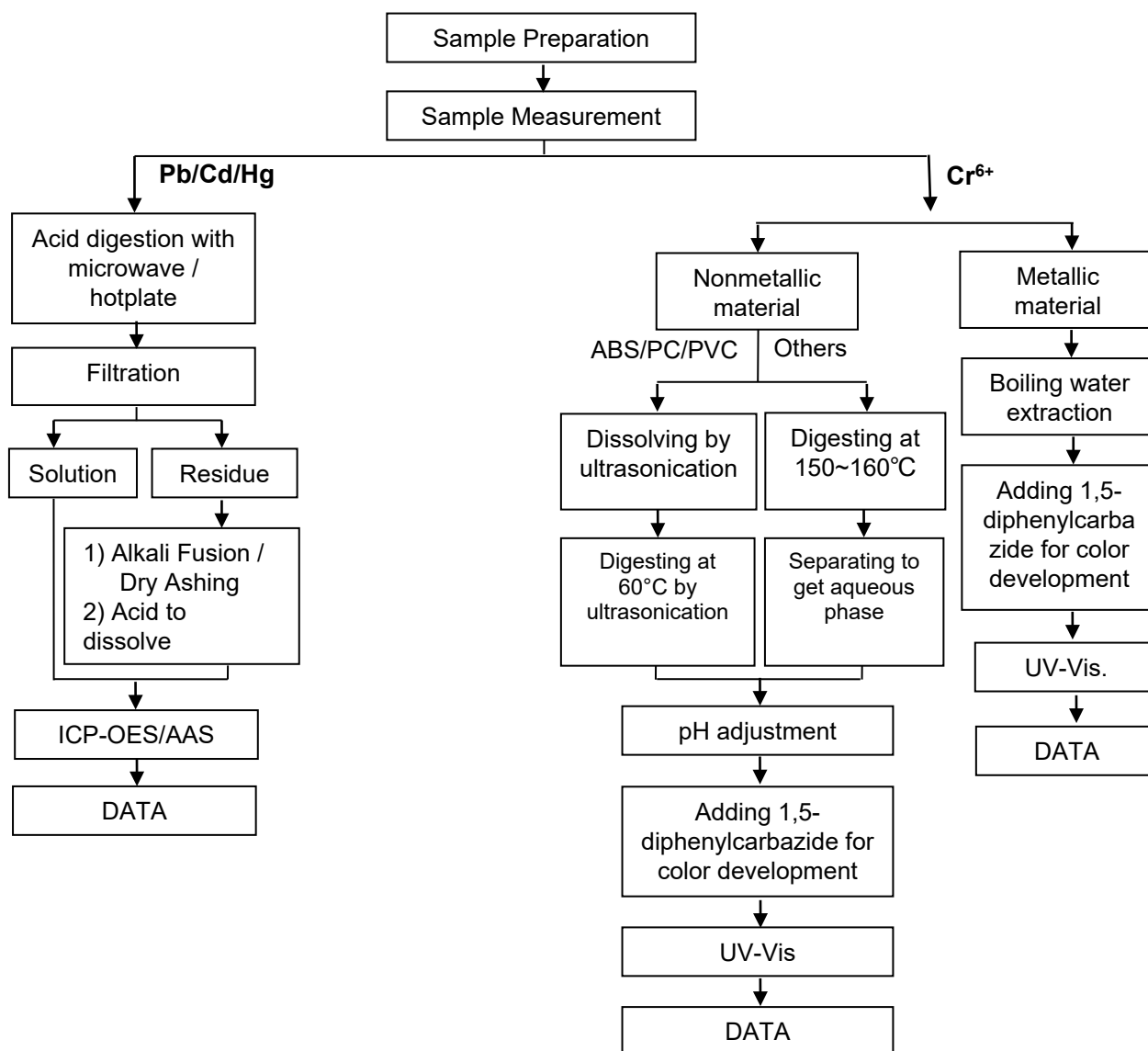
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Attachment:

### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

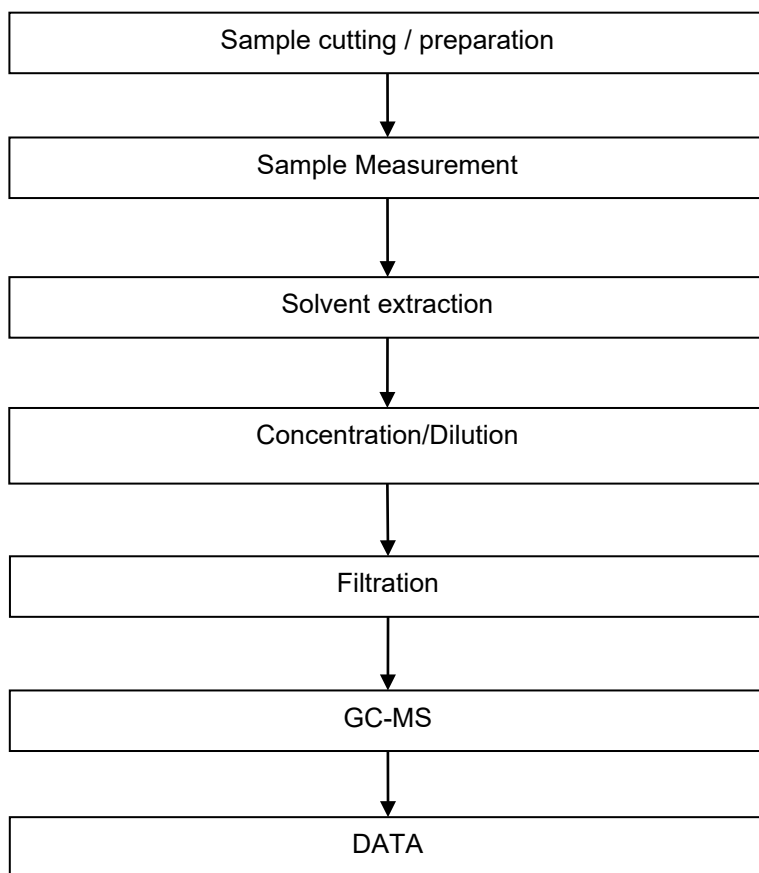
- 1) Name of the person who made testing: Edith Zhang//Yam Chen
- 2) Name of the person in charge of testing: Bella Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded).



Attachment:

### PBBs / PBDEs / Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Judy Chen
- 2) Name of the person in charge of testing: Qiong Liu



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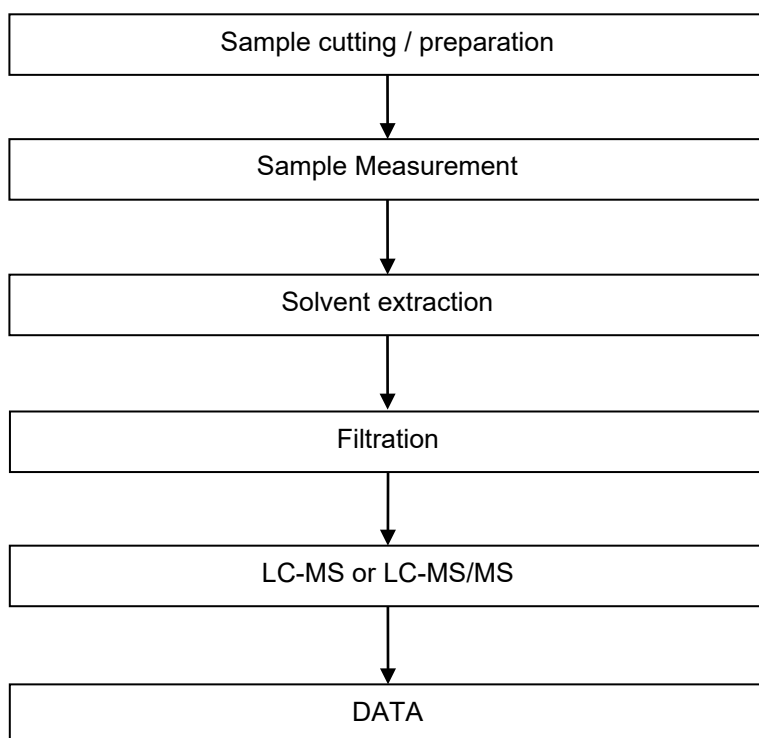
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Attachment:

### TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Olivia Li
- 2) Name of the person in charge of testing: Qiong Liu



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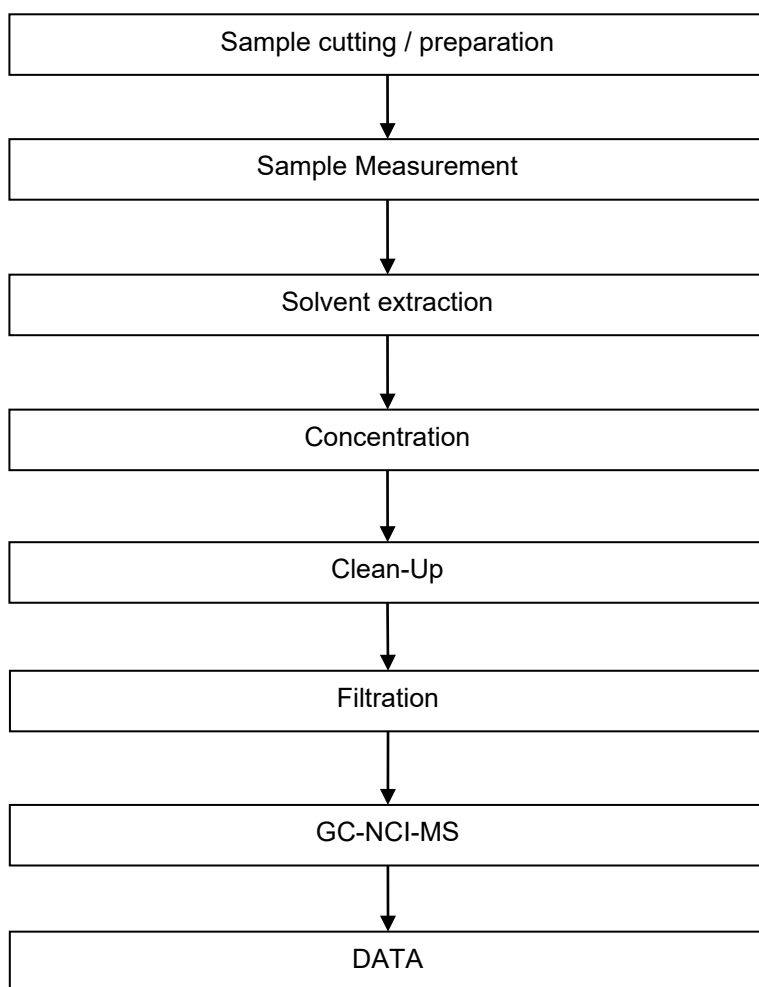
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### SCCP/MCCP/LCCP Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu





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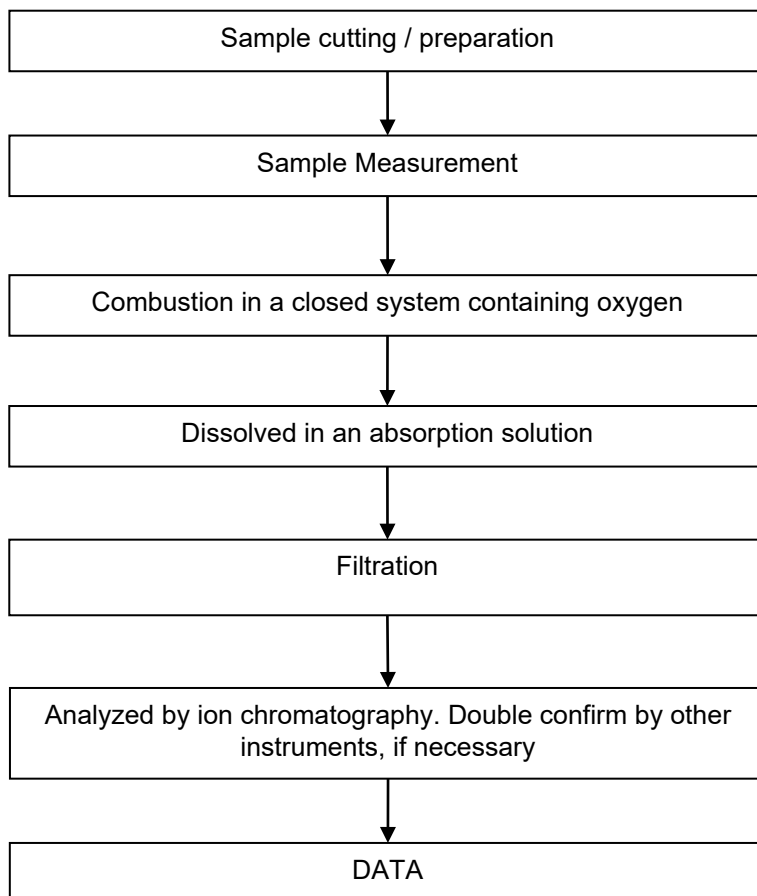
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Attachment:

### Halogen Testing Flow Chart

- 1) Name of the person who made testing: Allen Shi
- 2) Name of the person in charge of testing: Bella Wang



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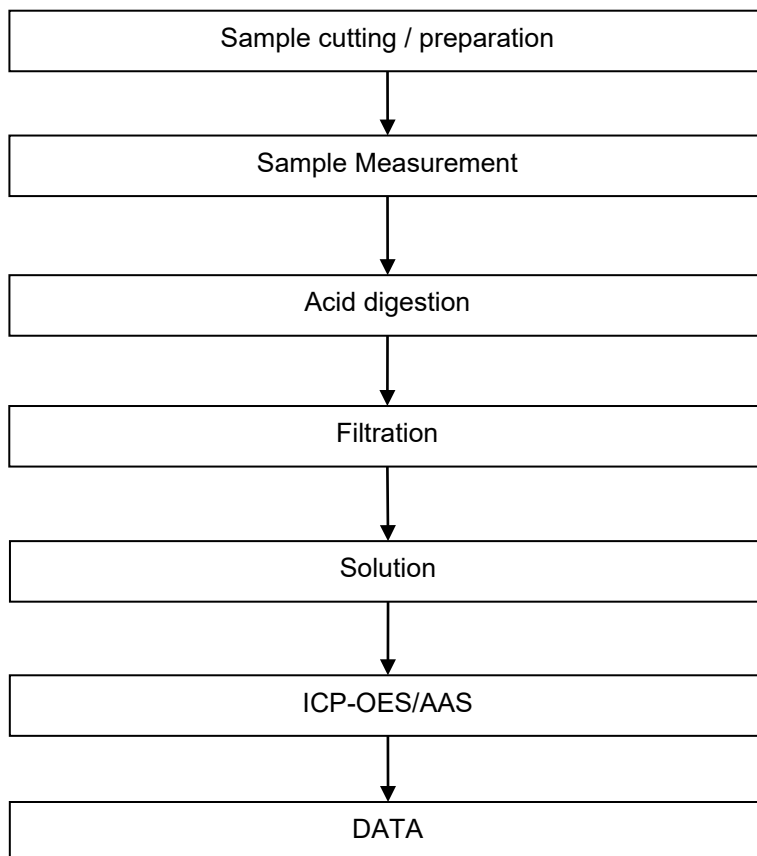
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Attachment:

### Elementary Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang
- 2) Name of the person in charge of testing: Bella Wang



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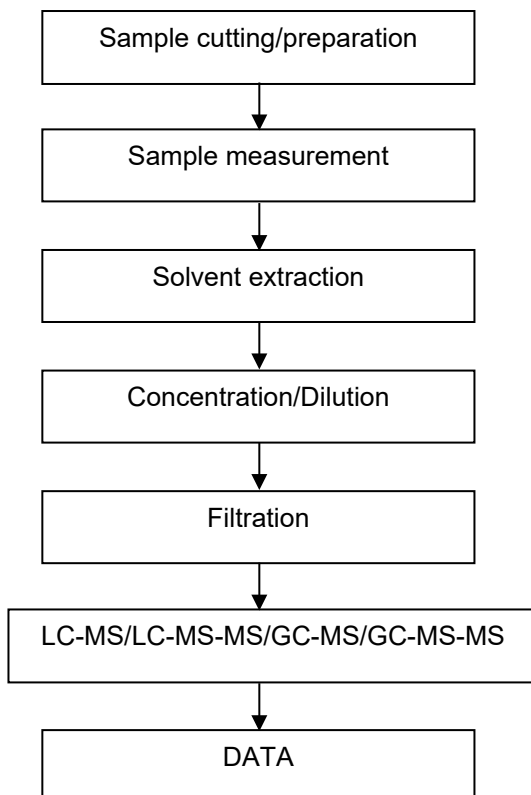
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### ATTACHMENTS

### PFASs/ PFOS/PFOA Testing Flow Chart

- 1) Name of the person who made testing: Austin Fang
- 2) Name of the person in charge of testing: Qiong Liu



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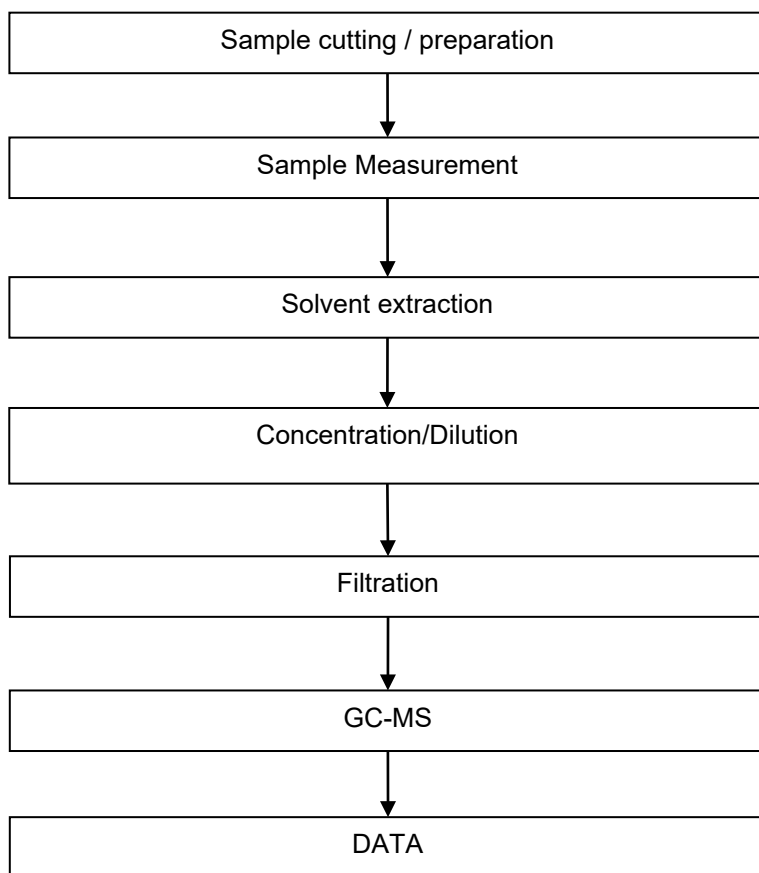
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Attachment:

### Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Judy Chen
- 2) Name of the person in charge of testing: Qiong Liu



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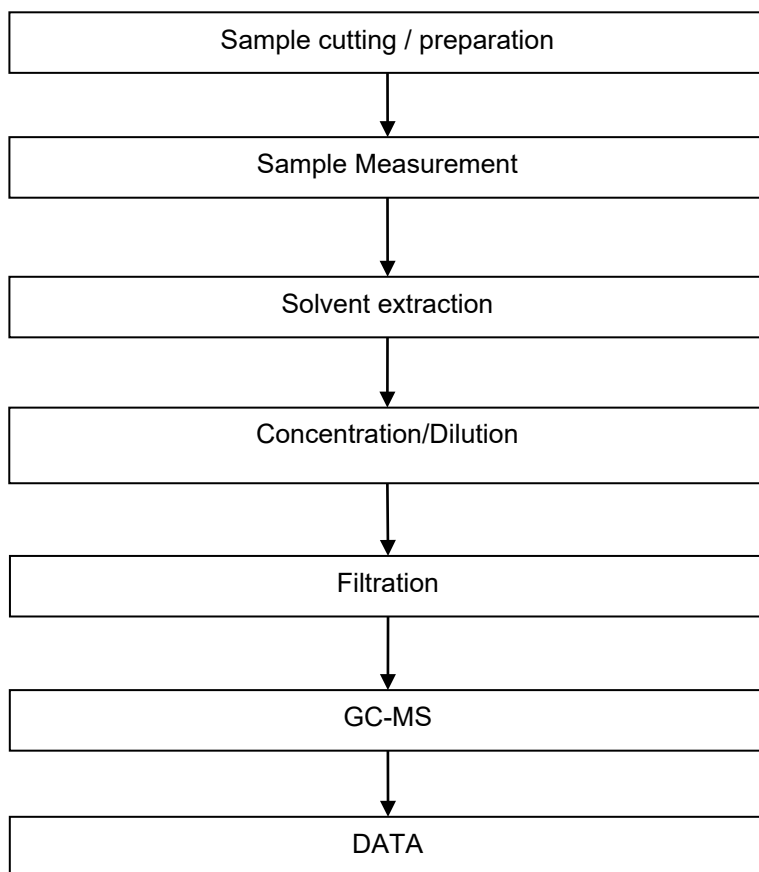
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Attachment:

### Dimethyl Fumarate Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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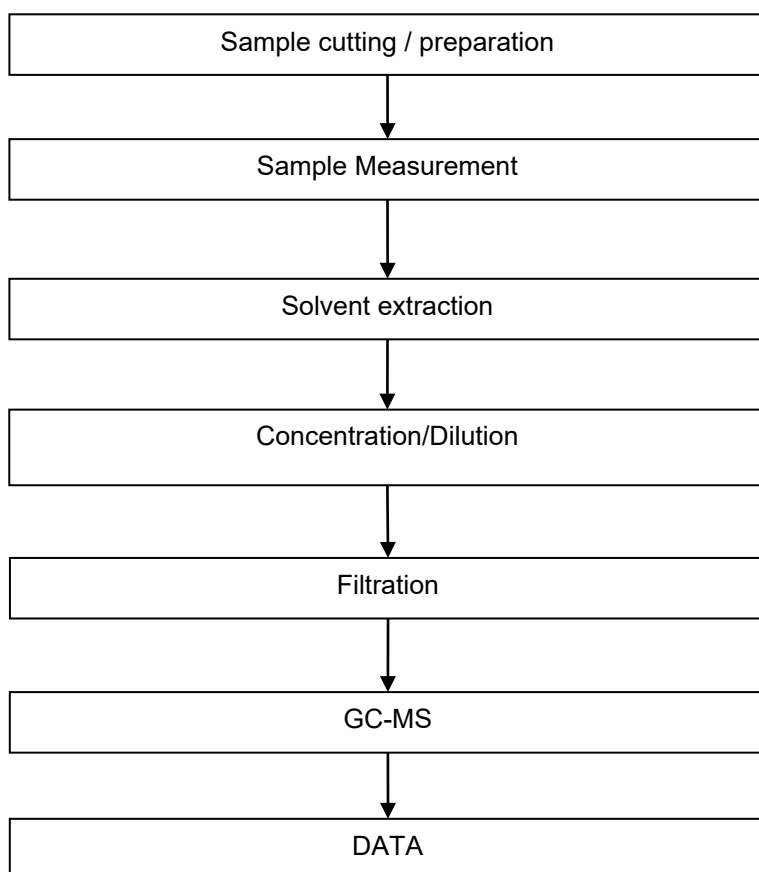
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Attachment:

### HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Judy Chen
- 2) Name of the person in charge of testing: Qiong Liu



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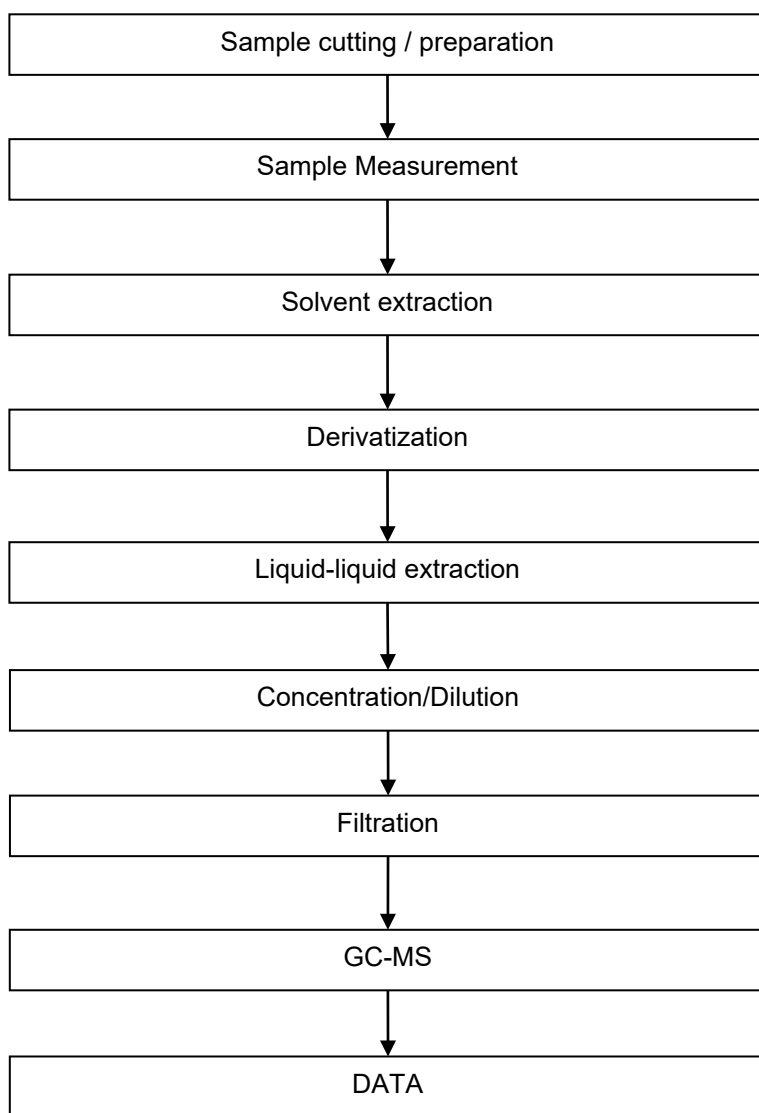
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Attachment:

### Organotin Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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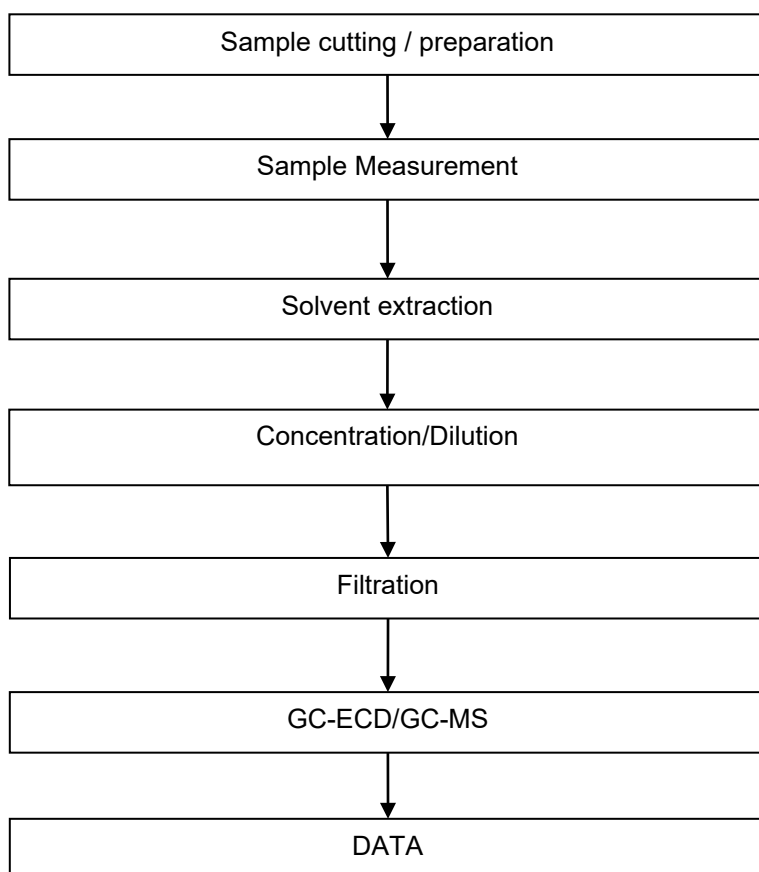
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Attachment:

### PCBs, PCTs, PCNs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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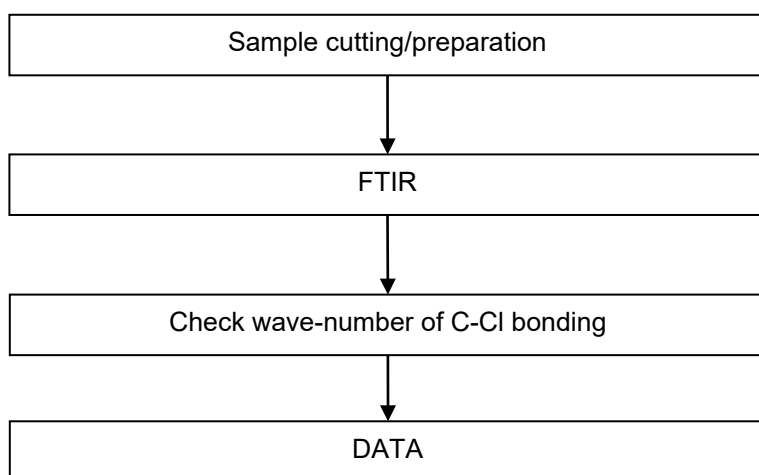
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Attachment:

### PVC Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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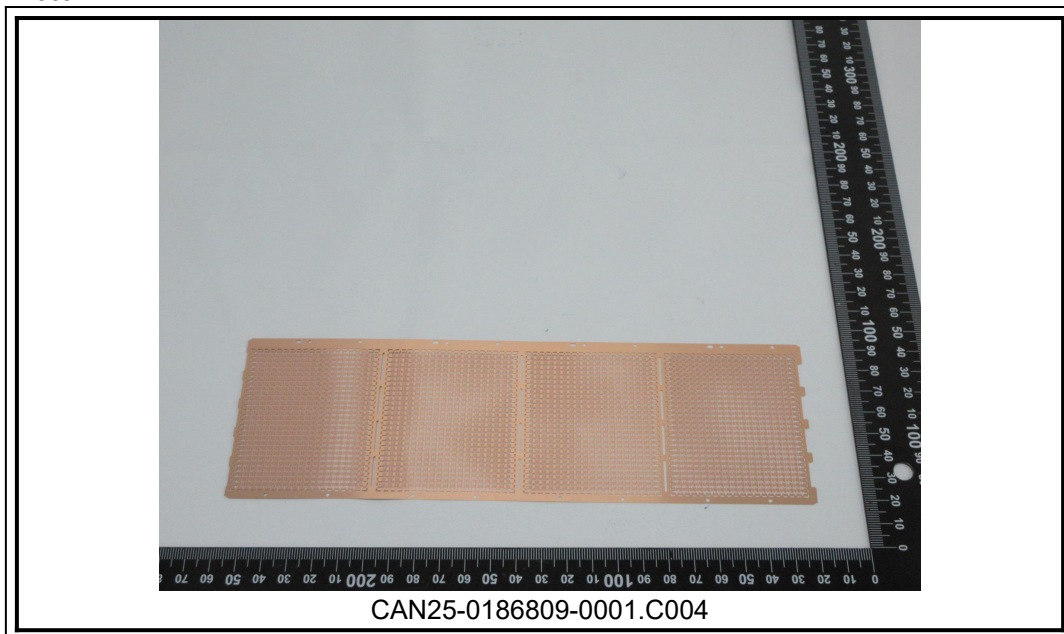
## Test Report

No.: CANEC25018680904

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