

**Test Report** No. CANEC2211010401 Date: 05 Jun 2022 Page 1 of 16

Client Name: GUANGDONG GUANGHUA SCI-TECH CO., LTD./GUANGZHOU JINHUADA CHEMICAL

REAGENT CO.,LTD.

Client Address: NO.295 DAXUE ROAD, SHANTOU GUANGDONG, CHINA

BLOCK A, GHTECH BUILDING, TUSPARK, NO.63, CHUANGQI ROAD, PANYU, GUANGZHOU,

**CHINA** 

Sample Name: Nickel Block

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

\_\_\_\_\_

SGS Job No. : CP22-028973 - GZ

Date of Sample Received : 26 May 2022

Testing Period : 26 May 2022 - 05 Jun 2022

Test Requested: Selected 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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Annie Ren Approved Signatory





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Test Result(s):

#### **Test Part Description:**

Specimen No. SGS Sample ID Description SN1 CAN22-110104.001 Silver-grey metal

#### Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

## RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                  | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------------|--------------|-------------|------------|------------|
| Cadmium (Cd)                  | 100          | mg/kg       | 2          | ND         |
| Lead (Pb)                     | 1,000        | mg/kg       | 2          | ND         |
| Mercury (Hg)                  | 1,000        | mg/kg       | 2          | ND         |
| Hexavalent Chromium (Cr(VI))▼ | -            | µg/cm²      | 0.10       | ND         |
| Sum of PBBs                   | 1,000        | mg/kg       | -          | ND         |
| Monobromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Dibromobiphenyl               | -            | mg/kg       | 5          | ND         |
| Tribromobiphenyl              | -            | mg/kg       | 5          | ND         |
| Tetrabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Pentabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Hexabromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Heptabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Octabromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Nonabromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Decabromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Sum of PBDEs                  | 1,000        | mg/kg       | -          | ND         |
| Monobromodiphenyl ether       | -            | mg/kg       | 5          | ND         |
| Dibromodiphenyl ether         | -            | mg/kg       | 5          | ND         |
| Tribromodiphenyl ether        | -            | mg/kg       | 5          | ND         |
| Tetrabromodiphenyl ether      | -            | mg/kg       | 5          | ND         |
| Pentabromodiphenyl ether      | -            | mg/kg       | 5          | ND         |

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| Test Report                         | No. CANEC221101040 | )1          | Date: 0    | 5 Jun 2022 | Page 3 of 16 |
|-------------------------------------|--------------------|-------------|------------|------------|--------------|
| Test Item(s)                        | <u>Limit</u>       | <u>Unit</u> | <u>MDL</u> | <u>001</u> |              |
| Hexabromodiphenyl ether             | -                  | mg/kg       | 5          | ND         |              |
| Heptabromodiphenyl ether            | -                  | mg/kg       | 5          | ND         |              |
| Octabromodiphenyl ether             | -                  | mg/kg       | 5          | ND         |              |
| Nonabromodiphenyl ether             | -                  | mg/kg       | 5          | ND         |              |
| Decabromodiphenyl ether             | -                  | mg/kg       | 5          | ND         |              |
| Dibutyl phthalate (DBP)             | 1000               | mg/kg       | 50         | ND         |              |
| Butyl benzyl phthalate (BBP)        | 1000               | mg/kg       | 50         | ND         |              |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000               | mg/kg       | 50         | ND         |              |
| Diisobutyl Phthalates (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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than  $0.10 \,\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm² and 0.13  $\mu$ g/cm² 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.

## <u>Halogen</u>

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

| Test Item(s)  | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------|-------------|------------|------------|
| Fluorine (F)  | mg/kg       | 50         | ND         |
| Chlorine (CI) | mg/kg       | 50         | ND         |
| Bromine (Br)  | mg/kg       | 50         | ND         |
| lodine (I)    | mg/kg       | 50         | ND         |

#### **Elementary Analysis**

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to EPA 3050B:1996), analysis was performed by ICP-OES.



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|-------------|---------------------|-------------------|--------------|
|             |                     |                   |              |

Test Item(s) Unit MDL 001 Antimony (Sb) 10 ND mg/kg Beryllium (Be) mg/kg 5 ND Arsenic (As) mg/kg 10 ND

#### Polyvinyl Chloride(PVC)

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

Test Item(s) CAS NO. 001 Unit MDL Polyvinyl Chloride (PVC) 9002-86-2 Negative

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Notes:

(1) Negative=Undetectable, Positive=Detectable

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

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

| Test Item(s)   | CAS NO.    | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|------------|-------------|------------|------------|
| Perfluorooctanoic acid (PFOA) and its salts+               | 335-67-1   | mg/kg       | 0.010      | ND         |
| Perfluorooctane sulfonates (PFOS) ^                        | 1763-23-1  | mg/kg       | 0.010      | ND         |
| Perfluorooctane Sulfonamide (PFOSA)                        | 754-91-6   | mg/kg       | 0.010      | ND         |
| N-methylperfluoro-1-octanesulfonamide(MeFOSA)              | 31506-32-8 | mg/kg       | 0.010      | ND         |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA)              | 4151-50-2  | mg/kg       | 0.010      | ND         |
| 2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE) | 24448-09-7 | mg/kg       | 0.010      | ND         |
| 2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)  | 1691-99-2  | mg/kg       | 0.010      | ND         |
| Perfluorooctane sulfonates (PFOS) and its derivatives      | -          | mg/kg       | -          | ND         |

#### Notes:

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

#### Polychlorinated Biphenyls (PCBs)



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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.    | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|------------|-------------|------------|------------|
| 2,4,4'-Trichlorobiphenyl (PCB 28)              | 7012-37-5  | mg/kg       | 0.5        | ND         |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52)        | 35693-99-3 | mg/kg       | 0.5        | ND         |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)     | 37680-73-2 | mg/kg       | 0.5        | ND         |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118)      | 31508-00-6 | mg/kg       | 0.5        | ND         |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138)   | 35065-28-2 | mg/kg       | 0.5        | ND         |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)   | 35065-27-1 | mg/kg       | 0.5        | ND         |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180) | 35065-29-3 | mg/kg       | 0.5        | ND         |

#### Polychlorinated Naphthalenes (PCNs)

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

| Test Item(s)                           | CAS NO.    | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|------------|-------------|------------|------------|
| 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         |

#### Polychlorinated Terphenyls (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.    | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--------------|------------|-------------|------------|------------|
| Aroclor 5432 | 63496-31-1 | mg/kg       | 5          | ND         |
| Aroclor 5442 | 12642-23-8 | mg/kg       | 5          | ND         |
| Aroclor 5460 | 11126-42-4 | mg/kg       | 5          | ND         |



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# Alkanes C<sub>10</sub>~C<sub>13</sub>, chloro (short chain-chlorinated paraffins) (SCCPs) and Alkanes C<sub>14</sub>~C<sub>17</sub>, chloro (medium chain-chlorinated paraffins) (MCCPs)

Test Method: With reference to ISO 18219-1:2021 & ISO 18219-2:2021, analysis was performed by

GC-NCI-MS.

| Test Item(s)  | CAS NO.        | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---|----------------|-------------|------------|------------|
| Alkanes C <sub>10</sub> ~C <sub>13</sub> , chloro (short chain-chlorinated  | 85535-84-8 and | mg/kg       | 50         | ND         |
| paraffins) (SCCPs)  | others         |             |            |            |
| Alkanes C <sub>14</sub> ~C <sub>17</sub> , chloro (medium chain-chlorinated | 85535-85-9 and | mg/kg       | 50         | ND         |
| paraffins) (MCCPs)  | others         |             |            |            |

#### 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)                  | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------------|-------------|------------|------------|
| Tributyl tin (TBT)            | mg/kg       | 0.02       | ND         |
| Tri-n-propyl tin(TPT)         | mg/kg       | 0.02       | ND         |
| Bis(tributyltin)oxide (TBTO)◆ | mg/kg       | 0.02       | ND         |
| Dibutyl tin (DBT)             | mg/kg       | 0.02       | ND         |
| Dioctyl tin (DOT)             | mg/kg       | 0.02       | ND         |

Notes:

(1)Bis(tributyltin)oxide (TBTO) is calculated by the test result of Tributyltin (TBT)

#### Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis

was performed by GC-MS.

| Test Item(s)                                   | CAS NO.     | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|-------------|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD) and all major   | 25637-99-4  | mg/kg       | 10         | ND         |
| diastereoisomers identified (α-HBCDD, β-HBCDD, | 3194-55-6   |             |            |            |
| γ-HBCDD)                                       | 134237-50-6 |             |            |            |
|  | 134237-51-7 |             |            |            |
|  | 134237-52-8 |             |            |            |

#### Phthalate(s)

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



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| Test Item(s)   | CAS NO.      | <u>Unit</u> | MDL   | <u>001</u> |
|--|--------------|-------------|-------|------------|
| Diisononyl Phthalate (DINP)                          | 28553-12-0 / | %(w/w)      | 0.005 | ND         |
|  | 68515-48-0   |             |       |            |
| Di-n-octyl Phthalate (DNOP)                          | 117-84-0     | %(w/w)      | 0.005 | ND         |
| Diisodecyl Phthalate (DIDP)                          | 26761-40-0 / | %(w/w)      | 0.005 | ND         |
|  | 68515-49-1   |             |       |            |
| Di-n-hexyl Phthalate (DnHP)                          | 84-75-3      | %(w/w)      | 0.005 | ND         |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl | 71888-89-6   | %(w/w)      | 0.005 | ND         |
| esters,C7-rich (DIHP)                                |              |             |       |            |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and  | 68515-42-4   | %(w/w)      | 0.005 | ND         |
| linear alkyl esters (DHNUP)                          |              |             |       |            |
| Bis(2-methoxyethyl) Phthalate (DMEP)                 | 117-82-8     | %(w/w)      | 0.005 | ND         |
| Diethyl Phthalate (DEP)                              | 84-66-2      | %(w/w)      | 0.005 | ND         |
| Dimethyl Phthalate (DMP)                             | 131-11-3     | %(w/w)      | 0.005 | ND         |
| Dipentyl Phthalates (DPENP/DnPP)                     | 131-18-0     | %(w/w)      | 0.005 | ND         |
|  |              |             |       |            |

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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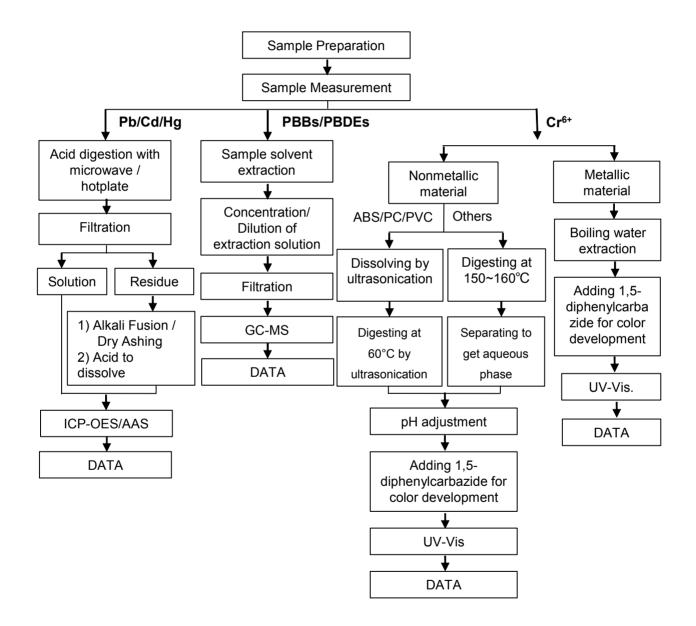


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## Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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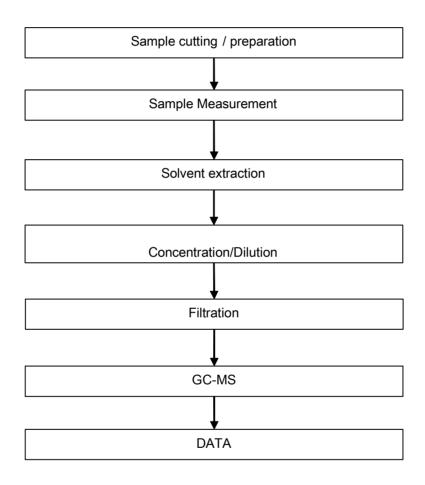
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## **Phthalates Testing Flow Chart**





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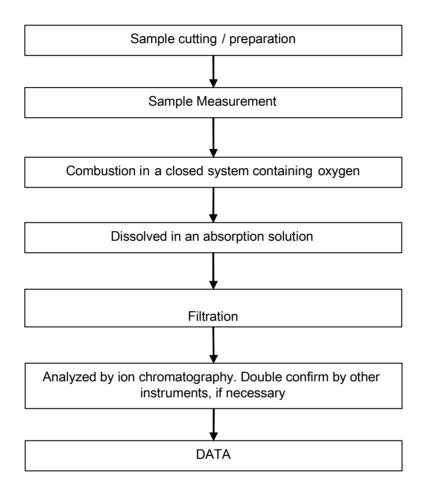
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## **Halogen Testing Flow Chart**





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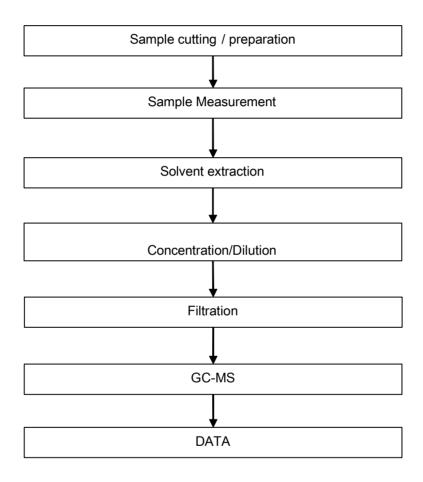
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## **HBCDD Testing Flow Chart**





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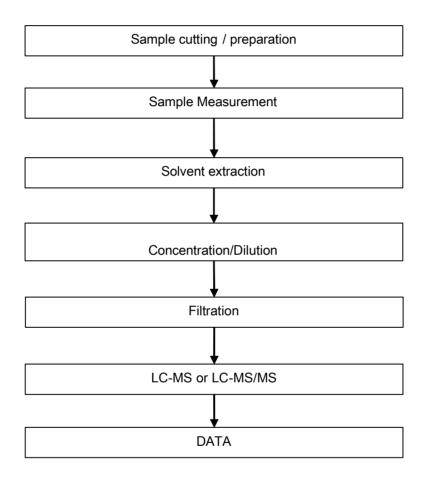
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## PFOA / PFOS Testing Flow Chart





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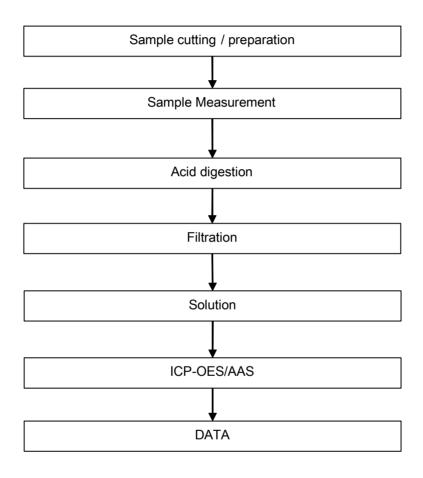
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## **Elementary Testing Flow Chart**





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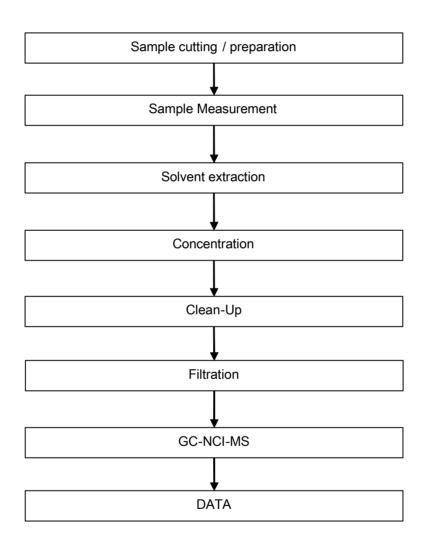
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## SCCP/MCCP/LCCP Testing Flow Chart





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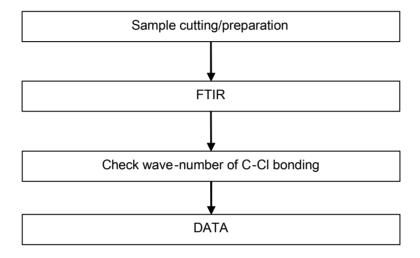
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## **PVC Testing Flow Chart**





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