

Test Report

No.: SHAEC23000366219

Date: Feb 06, 2023

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Client Name: YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD.

Client Address: NO.68, XINGANQUAN ROAD, YANGZHOU ECONOMIC DEVELOPMENT ZONE, YANGZHOU, JIANGSU, CHINA

Sample Name: Small Signal(Pb Free)

Client Ref. Information: Lead Frame (Cu Ag); Lead Frame (Fe Ni) ; Copper Wire; Pd Copper Wire; Au Pd Copper Wire; Silver Paste; Molding Compound (halogen Free 2) ; Molding Compound (halogen Free 5) ; Molding Compound (halogen Free 6) ; Molding Compound (halogen Free 7) ; Tin Ball

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

SGS Job No.: SP23-000791

Sample Receiving Date: Jan 10, 2023

Testing Period: Jan 10, 2023 - Jan 30, 2023

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Tom Ni

Tom Ni
Approved Signatory

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|----------------------|
| SN1 | A2 | SHA23-0003662-0001.C002 | Silvery metal |
| SN2 | A8 | SHA23-0003662-0001.C008 | Black solid |
| SN3 | A28 | SHA23-0003662-0001.C028 | Copper metal wire |
| SN4 | A29 | SHA23-0003662-0001.C029 | Gray metal wire |
| SN5 | A30 | SHA23-0003662-0001.C030 | Gray metal wire |
| SN6 | A31 | SHA23-0003662-0001.C031 | Silvery mud |
| SN7 | A32 | SHA23-0003662-0001.C032 | Copper/silvery metal |
| SN8 | A33 | SHA23-0003662-0001.C033 | Silvery metal |
| SN9 | A34 | SHA23-0003662-0001.C034 | Black solid |
| SN10 | A36 | SHA23-0003662-0001.C036 | Black solid |
| SN11 | A37 | SHA23-0003662-0001.C037 | Black solid |

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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 | A2 | A28 | A29 |
|----------------------------------|-------|--------------------|------|----|-----|-----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | 41 | ND | ND |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A2 | A28 | A29 |
|------------------------------------|-------|---------|-----|----|-----|-----|
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Limit | Unit(s) | MDL | A30 | A32 | A33 |
|------------------------------------|-------|--------------------|------|-----|-----|-----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A30 | A32 | A33 |
|------------------------------------|-------|---------|-----|-----|-----|-----|
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | ND | 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 µg/cm². 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 µg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/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.

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

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A8 | A31 | A34 |
|------------------------------|-------|---------|-----|----|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A8 | A31 | A34 |
|------------------------------------|-------|---------|-----|----|-----|-----|
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Limit | Unit(s) | MDL | A36 | A37 |
|----------------------------------|-------|---------|-----|-----|-----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A36 | A37 |
|------------------------------------|-------|---------|-----|-----|-----|
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | 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.

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.



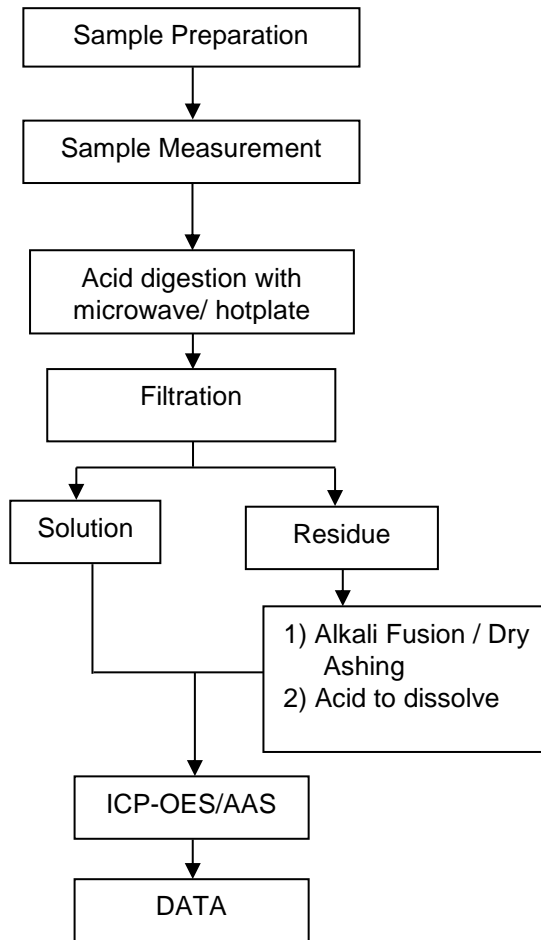
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Elements (IEC62321) Testing Flow Chart

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



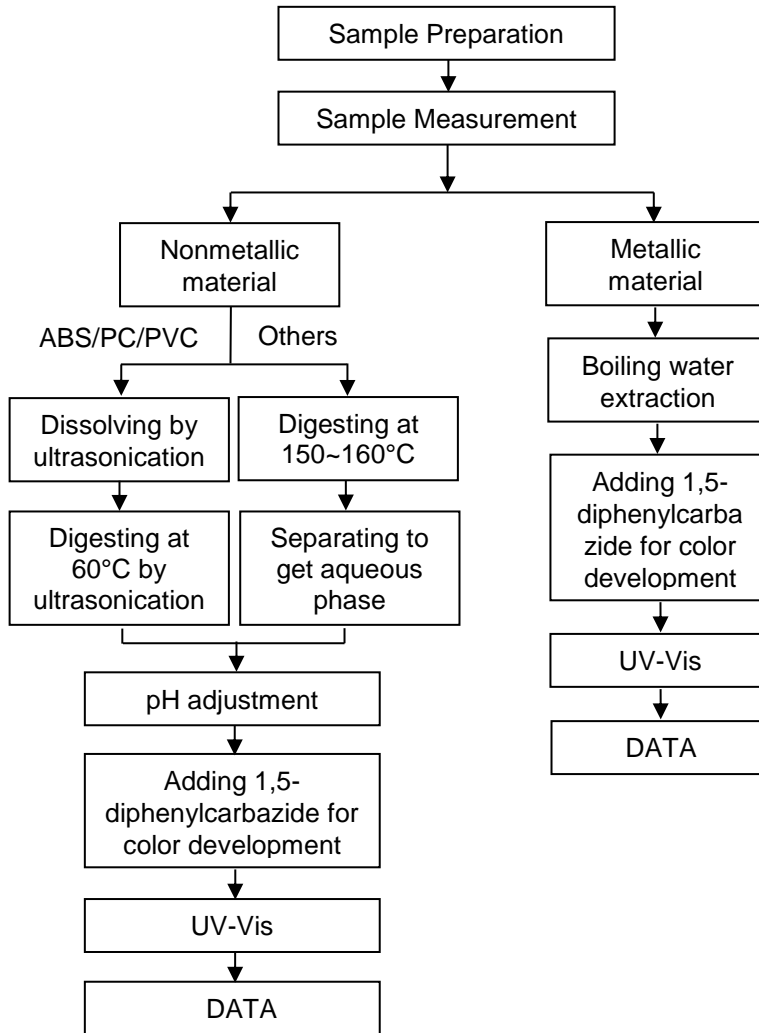
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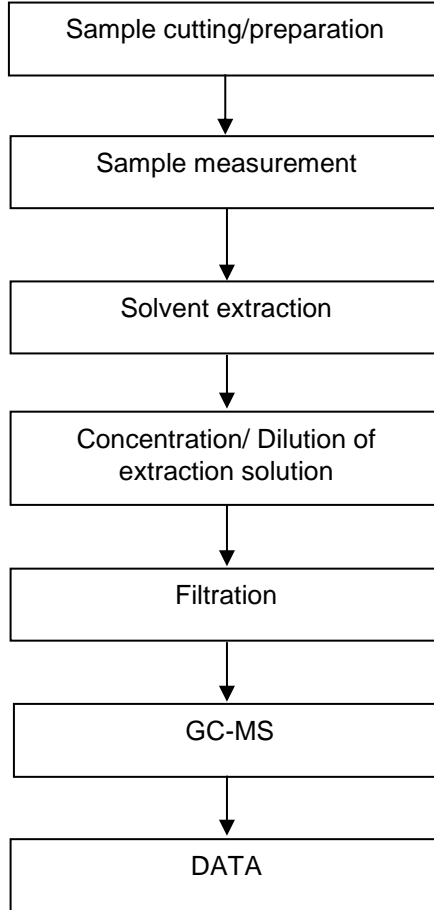
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBBs/PBDEs Testing Flow Chart



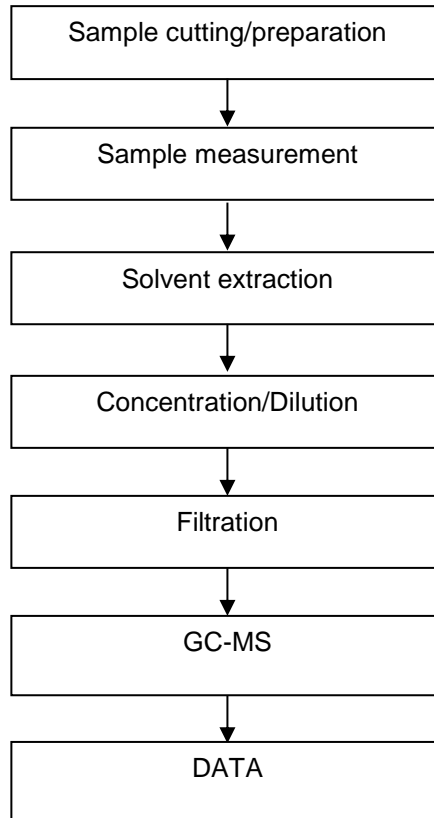
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Phthalates Testing Flow Chart



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Test Report

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Sample Photo:



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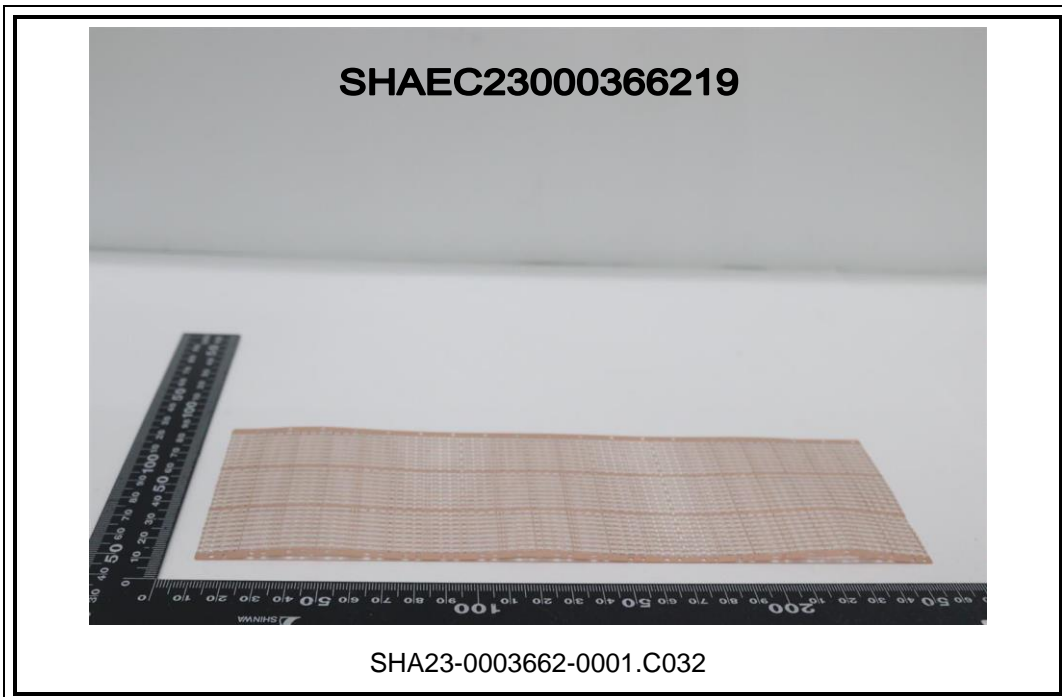
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