

Test Report

No.: SHAEC24028769423

Date: Jan 07, 2025

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Client Name: SIHONG HONGXIN SEMICONDUCTOR CO., LTD.

Client Address: NO. 12, EAST ZONE, ELECTRONIC INFORMATION INDUSTRIAL PARK, SIHONG ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTRY, SUQIAN CITY. JIANGSU PROVINCE, CHINA

Sample Name: SMD

Client Ref. Information: 1.Tin ball; 3.Molding Compound (halogen Free 1) ; 4.GPP Chip; 5.SKY Chip; 7.Molding Compound (halogen Free 2) ; 8.Molding Compound (halogen Free 3) ; 9.Molding Compound (halogen Free 4) ; 10.Lead Frame/Jumper/Lead Wire; 26.Solder Paste/Solder Perform/Solder Wire; 38.Molding Compound (halogen Free 8) ; 39.Molding Compound (halogen Free 9) ; 40.Molding Compound (halogen Free 10)

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

SGS Job No.: SHP24-040813

Sample Receiving Date: Dec 16, 2024

Testing Period: Dec 16, 2024 ~ Dec 23, 2024

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 |

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

Tom Ni

Tom Ni
Approved Signatory

scan to see the report



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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|------------------------|
| SN1 | A1 | SHA24-0287694-0001.C001 | Silvery metal |
| SN2 | A3 | SHA24-0287694-0001.C003 | Gray solid |
| SN3 | A4 | SHA24-0287694-0001.C004 | Gray/black solid sheet |
| SN4 | A5 | SHA24-0287694-0001.C005 | Colorful solid sheet |
| SN5 | A7 | SHA24-0287694-0001.C007 | Gray solid |
| SN6 | A8 | SHA24-0287694-0001.C008 | Gray solid |
| SN7 | A9 | SHA24-0287694-0001.C009 | Gray solid |
| SN8 | A10 | SHA24-0287694-0001.C010 | Copper metal |
| SN9 | A26 | SHA24-0287694-0001.C026 | Silvery metal wire |
| SN10 | A38 | SHA24-0287694-0001.C038 | Gray solid |
| SN11 | A39 | SHA24-0287694-0001.C039 | Gray solid |
| SN12 | A40 | SHA24-0287694-0001.C040 | Gray 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 (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 | A3 | A4 | A5 |
|------------------------------------|-------|---------|-----|----|--------------------|----|
| Lead (Pb) | 1000 | mg/kg | 2 | ND | 21965 [▲] | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A3 | A4 | A5 |
|---|-------|---------|-----|----|----|----|
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND | ND | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Dibutyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Limit | Unit(s) | MDL | A7 | A8 | A9 |
|------------------------------------|-------|---------|-----|----|----|----|
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A7 | A8 | A9 |
|---|-------|---------|-----|----|----|----|
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND | ND | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Dibutyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Limit | Unit(s) | MDL | A38 | A39 | A40 |
|----------------------------------|-------|---------|-----|-----|-----|-----|
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND | ND | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A38 | A39 | A40 |
|---|-------|---------|-----|-----|-----|-----|
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND | ND | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND | ND | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND | ND | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND | ND | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Dibutyl Phthalate (DBP) | 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) 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.



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Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 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 | A10 |
|---|-------|--------------------|------|----|-----|
| Lead (Pb) | 1000 | mg/kg | 2 | 38 | 7 |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND |
| Hexavalent Chromium (Cr(VI)) [▼] | - | µg/cm ² | 0.10 | ND | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | ND |
| Dibutyl Phthalate (DBP) | 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) [▼] =
 - 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.



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- 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.

Test Method: With reference to Titration method, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A26 |
|---|-------|--------------------|------|-------------------|
| Lead(Pb) | 0.1 | % | - | 92.5 [▲] |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium(Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) ▼ | - | µg/cm ² | 0.10 | 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 |
| 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 |



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Test Report

No.: SHAEC24028769423

Date: Jan 07, 2025

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| Test Item(s) | Limit | Unit(s) | MDL | A26 |
|-----------------------------|-------|---------|-----|-----|
| 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 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.

Results & photo(s) of this report refer to test report SHAEC24028769409.

▲ According to the declaration from the client, Lead (Pb) in No.A26 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

▲ According to the declaration from the client, Lead (Pb) in No.A4 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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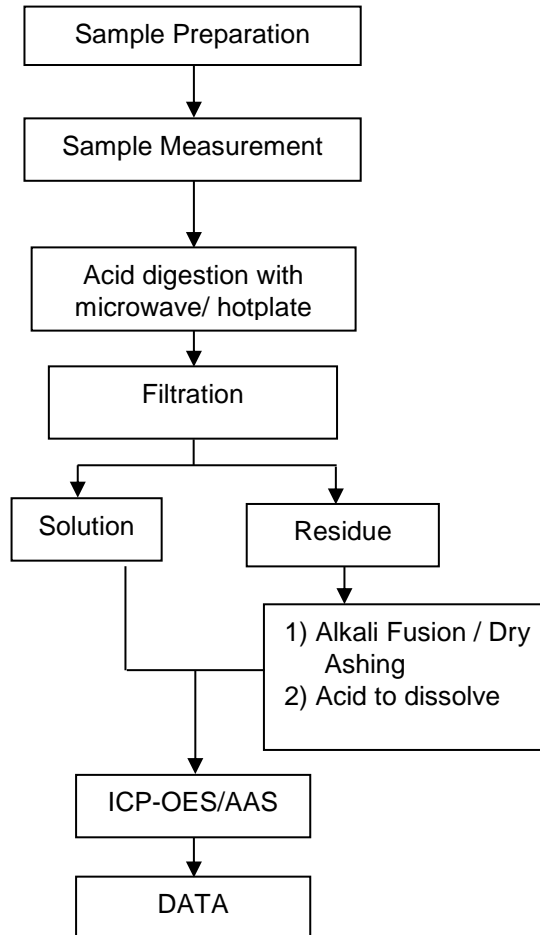
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Elements Testing Flow Chart

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

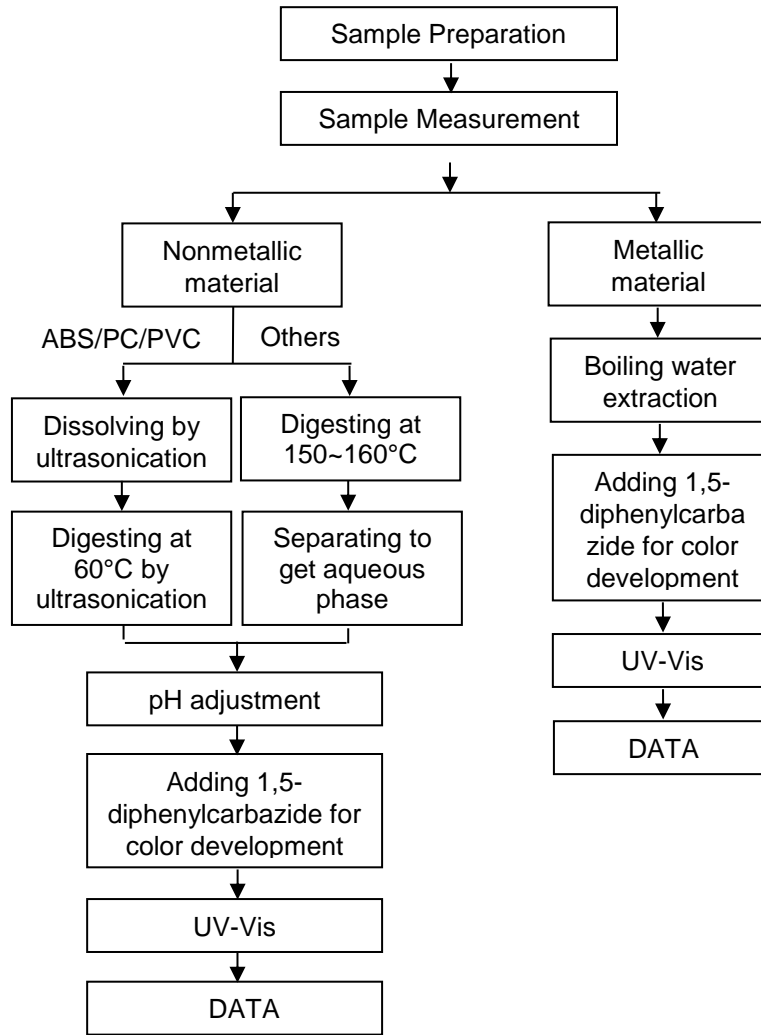


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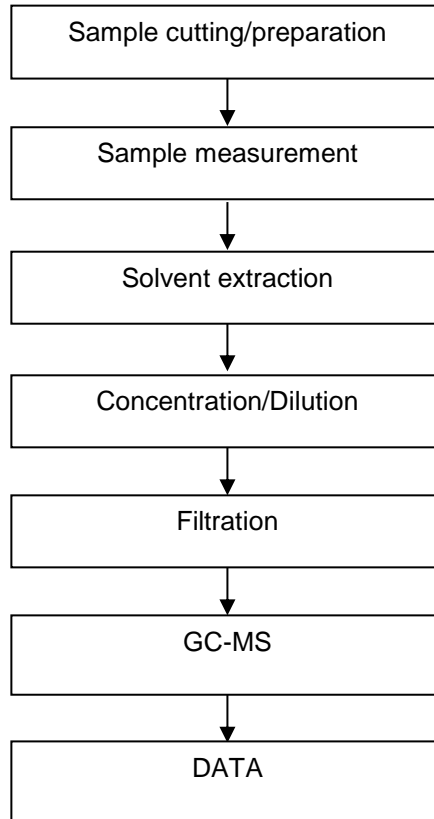
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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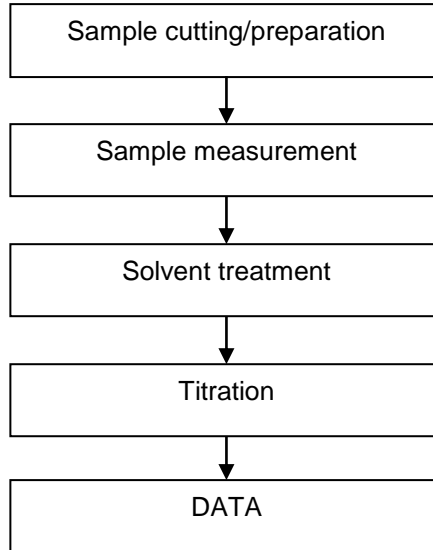
PBB/PBDE/Phthalates Testing Flow Chart



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Titration Testing Flow Chart



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Sample Photo:



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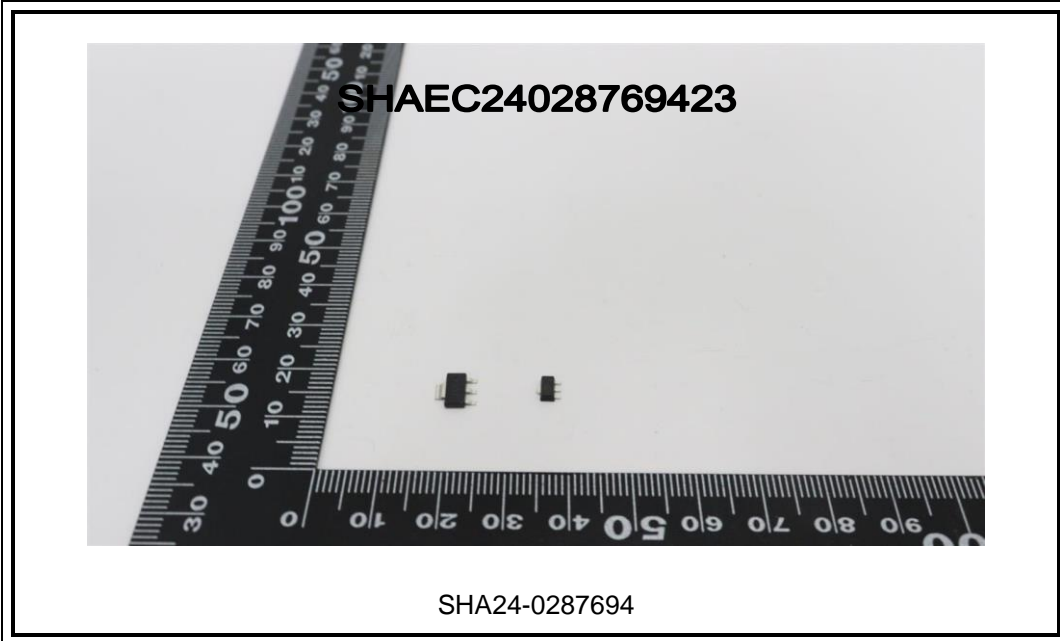
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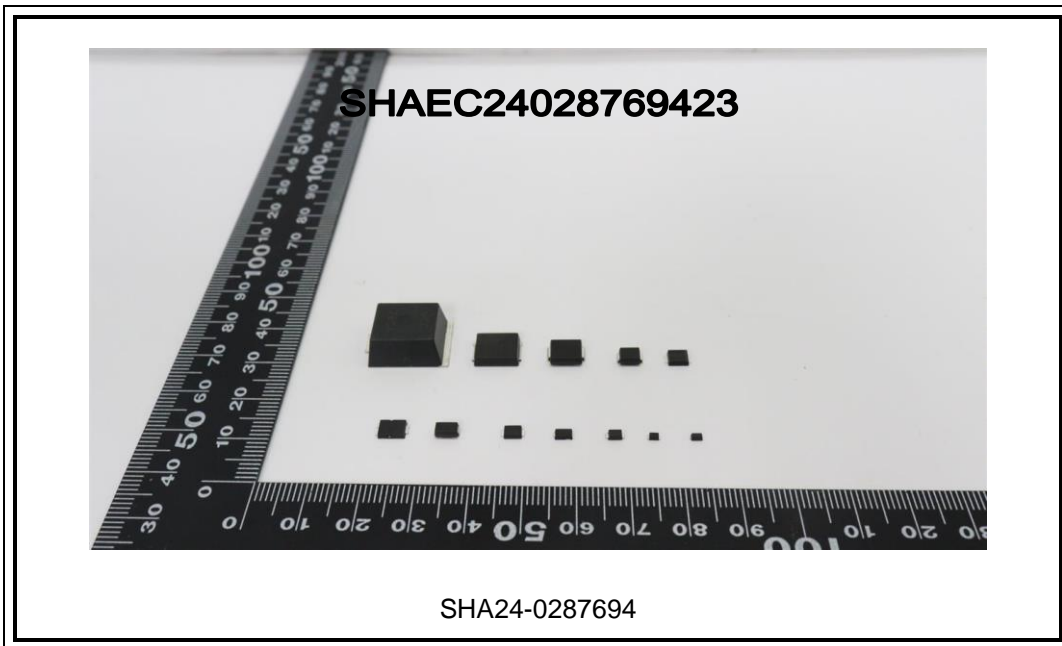


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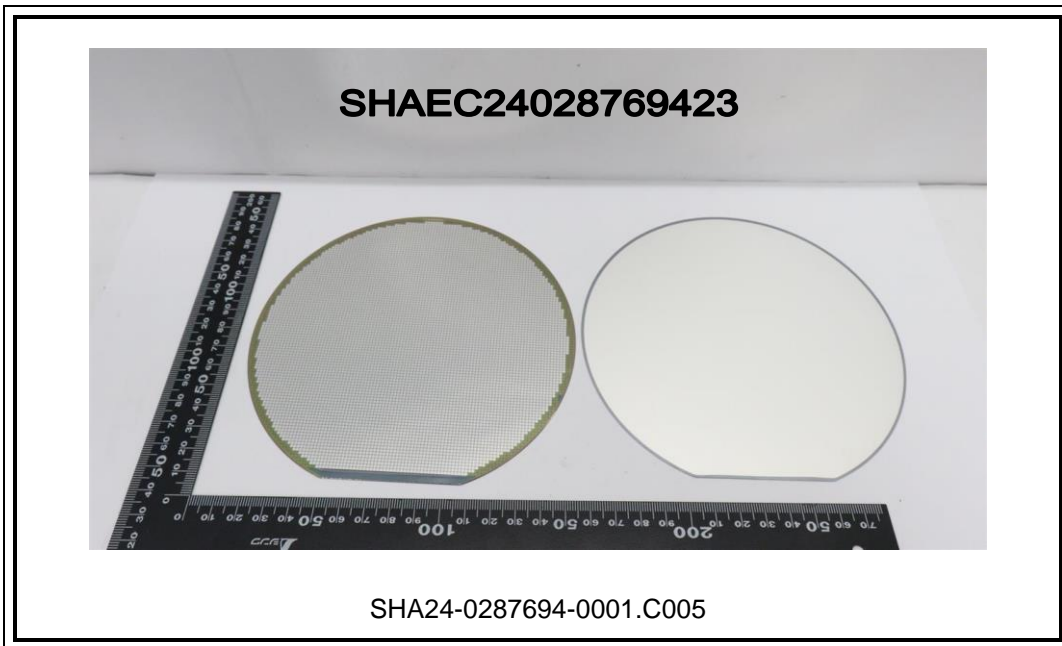
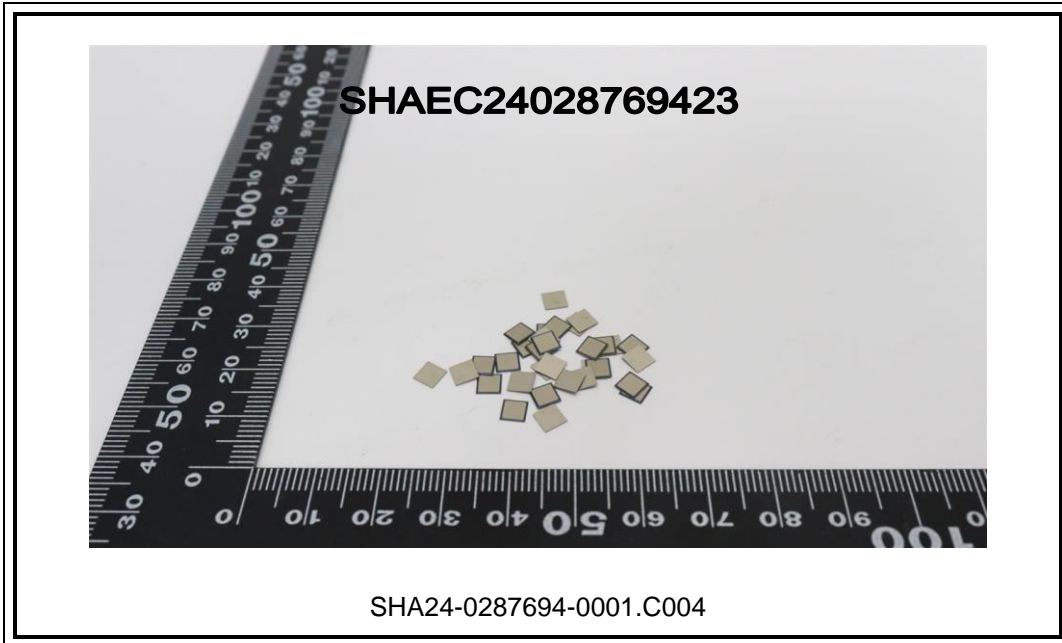
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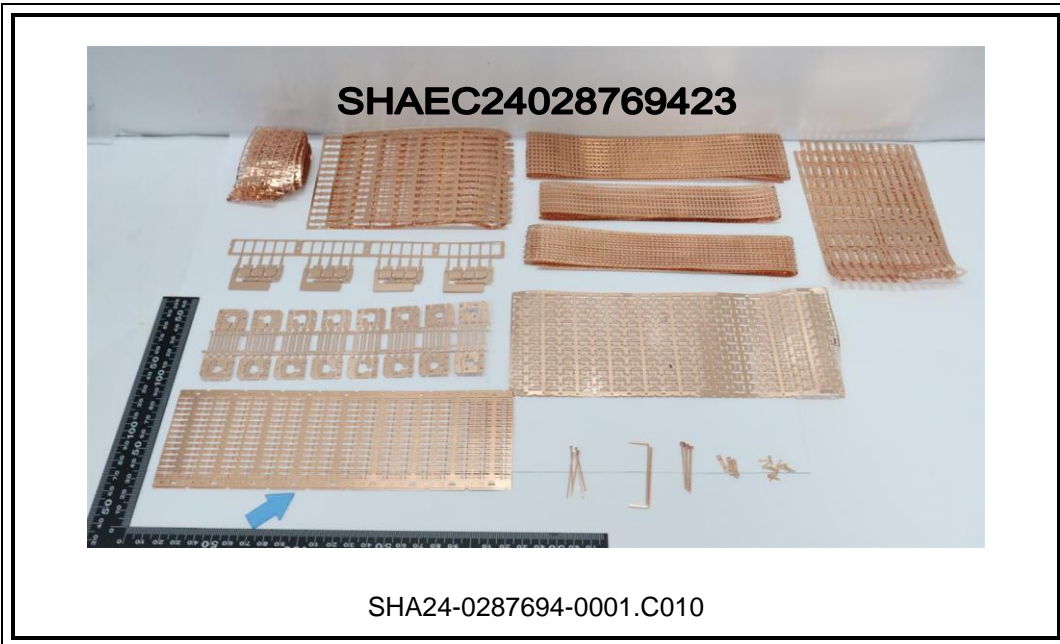
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