

| Test Report       | No.:        | SHAEC24000195805       | Date:          | Jan 19, 2024         | Page 1 of 27 |
|-------------------|-------------|------------------------|----------------|----------------------|--------------|
| Client Name:      | YANGZHOU Y  | ANGJIE ELECTRONIC      | TECHNOLOGY     | CO., LTD.            |              |
| Client Address:   | NO.6 WEST H | EYE ROAD, HANJIANG     | DISTRICT, YAI  | NGZHOU, JIANGSU, CH  | HINA         |
| Sample Name:      | P           | V Diode                |                |                      |              |
| Client Ref. Infor | mation: 1   | Tin ball 2 Molding Cor | nnound (haloge | n 1) • 3 Molding Com | nound        |

| Client Ref. Information: | 1.Tin ball; 2.Molding Compound (halogen 1); 3.Molding Compound      |
|--------------------------|---|
|                          | (halogen Free 1); 4.GPP Chip; 5.SKY Chip; 6.Ink; 8.Molding Compound |
|                          | (halogen Free 3); 10.Lead Frame/Jumper/Lead Wire; 14.Al Wire/Al     |
|                          | Ribbon; 16.Molding Compound (halogen 2); 26.Solder Paste/Solder     |
|                          | Perform/Solder Wire; 35.Lead Frame (Cu)1; 38.Molding Compound       |
|                          | (halogen Free 8); 42.Lead Frame (Cu Ag)1; 44.Lead Frame (Cu Ag)2;   |
|                          | 45.Molding Compound (halogen Free 12); 46.Molding Compound (halogen |
|                          | 4); 47.Jumper   |
| The above comple(c) and  | information were provided by the client                             |

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

| SGS Job No.:           | SHP24-000085                               |
|------------------------|--|
| Sample Receiving Date: | Jan 03, 2024                               |
| Testing Period:        | Jan 03, 2024 ~ Jan 15, 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<br>- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls<br>(PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate<br>(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl<br>phthalate (DIBP)  | Pass       |
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive<br>2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated<br>biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl)<br>phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and<br>Diisobutyl phthalate (DIBP) | Pass       |

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

Annie Lin

Annie Liu Approved Signatory





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| Test Report                                  | No.:                    | SHAEC24000195805  | Date:                           | Jan 19, 2024      | Page 2 of 2 |
|--|-------------------------|---|---------------------------------|-------------------|-------------|
| Test Requirement                             |                         |   |                                 |                   | Conclusion  |
| - Lead, Mercury, Cac<br>(PBB), Polybrominate | lmium, He<br>ed dipheny | 863 amending Annex II to<br>xavalent chromium, Polyb<br>yl ethers (PBDE), Bis(2-eth<br>e (BBP), Dibutyl phthalate ( | rominated bip<br>nylhexyl) phth | ohenyls<br>nalate | Pass        |

## Test Result(s):

Test Part Description:

| Sample No. | CCC Comple ID  |  |
|------------|--|--|
|            | SGS Sample ID  | Description  |
| A1         | SHA24-0001958-0001.C001  | Silvery metal  |
| A2         | SHA24-0001958-0001.C002  | Gray solid   |
| A3         | SHA24-0001958-0001.C003  | Gray solid   |
| A4         | SHA24-0001958-0001.C004  | Gray/black solid sheet   |
| A5         | SHA24-0001958-0001.C005  | Colorful solid sheet   |
| A6         | SHA24-0001958-0001.C006  | Silvery liquid   |
| A8         | SHA24-0001958-0001.C008  | Gray solid   |
| A10        | SHA24-0001958-0001.C010  | Copper metal   |
| A14        | SHA24-0001958-0001.C014  | Silvery metal wire   |
| A16        | SHA24-0001958-0001.C016  | Gray solid   |
| A26        | SHA24-0001958-0001.C026  | Silvery metal wire   |
| A35        | SHA24-0001958-0001.C035  | Copper metal   |
| A38        | SHA24-0001958-0001.C038  | Gray solid   |
| A42        | SHA24-0001958-0001.C042  | Copper metal   |
| A44        | SHA24-0001958-0001.C044  | Copper metal   |
| A45        | SHA24-0001958-0001.C045  | Gray solid   |
| A46        | SHA24-0001958-0001.C046  | Gray solid   |
| A47        | SHA24-0001958-0001.C047  | Copper metal   |
|            | A2<br>A3<br>A4<br>A5<br>A6<br>A8<br>A10<br>A14<br>A16<br>A26<br>A35<br>A38<br>A42<br>A44<br>A45<br>A46 | A2         SHA24-0001958-0001.C002           A3         SHA24-0001958-0001.C003           A4         SHA24-0001958-0001.C004           A5         SHA24-0001958-0001.C005           A6         SHA24-0001958-0001.C006           A8         SHA24-0001958-0001.C006           A8         SHA24-0001958-0001.C008           A10         SHA24-0001958-0001.C010           A14         SHA24-0001958-0001.C016           A26         SHA24-0001958-0001.C016           A26         SHA24-0001958-0001.C026           A35         SHA24-0001958-0001.C035           A38         SHA24-0001958-0001.C035           A38         SHA24-0001958-0001.C042           A44         SHA24-0001958-0001.C042           A44         SHA24-0001958-0001.C044           A45         SHA24-0001958-0001.C045           A46         SHA24-0001958-0001.C046 |

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

| Test Item(s)                   | Limit | Unit(s) | MDL | A2 | A3 | A4     |
|--------------------------------|-------|---------|-----|----|----|--------|
| Lead (Pb)                      | 1000  | mg/kg   | 2   | ND | ND | 32265▲ |
| 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     |



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| t Report No.: SHA                            | AEC240001 | EC24000195805 |     | Date: Jan 19, 2024 |    |           |
|--|-----------|---------------|-----|--------------------|----|-----------|
| Test Item(s)                                 | Limit     | Unit(s)       | MDL | A2                 | A3 | A4        |
| Monobrominated biphenyl                      | -         | mg/kg         | 5   | ND                 | ND | ND        |
| (MonoBB)<br>Dibrominated biphenyl (DiBB)     |           |               | 5   | ND                 | ND | ND        |
|  | -         | mg/kg         |     |                    |    |           |
| Tribrominated biphenyl (TriBB)               | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Tetrabrominated biphenyl<br>(TetraBB)        | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Pentabrominated biphenyl<br>(PentaBB)        | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Hexabrominated biphenyl<br>(HexaBB)          | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Heptabrominated biphenyl<br>(HeptaBB)        | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Octabrominated biphenyl<br>(OctaBB)          | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Nonabrominated biphenyl<br>(NonaBB)          | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Decabrominated biphenyl<br>(DecaBB)          | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Polybrominated diphenyl ethers (PBDE)        | 1000      | mg/kg         | -   | ND                 | ND | ND        |
| Monobrominated diphenyl ether<br>(MonoBDE)   | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Dibrominated diphenyl ether<br>(DiBDE)       | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Tribrominated diphenyl ether<br>(TriBDE)     | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Tetrabrominated diphenyl ether (TetraBDE)    | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Pentabrominated diphenyl ether<br>(PentaBDE) | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Octabrominated diphenyl ether<br>(OctaBDE)   | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Nonabrominated diphenyl ether (NonaBDE)      | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Decabrominated diphenyl ether (DecaBDE)      | -         | mg/kg         | 5   | ND                 | ND | ND        |
| Bis(2-ethylhexyl) phthalate (DEHP)           | 1000      | mg/kg         | 50  | ND                 | ND | ND        |
| Butyl benzyl 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     | Linit(s)      | MDI | Δ5                 | 46 | <u>Δ8</u> |

| Test Item(s) | Limit | Unit(s) | MDL | A5 | A6 | A8 |
|--------------|-------|---------|-----|----|----|----|
| 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 |



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| Report No.: SHA                              | EC24000195805 |         | Date | : Jan 19, 20 | )24 | Page |  |
|--|---------------|---------|------|--------------|-----|------|--|
| Test Item(s)                                 | Limit         | Unit(s) | MDL  | A5           | A6  | A8   |  |
| Hexavalent Chromium (Cr(VI))                 | 1000          | mg/kg   | 8    | ND           | ND  | ND   |  |
| Polybrominated biphenyls (PBB)               | 1000          | mg/kg   | -    | ND           | ND  | ND   |  |
| Monobrominated biphenyl<br>(MonoBB)          | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Dibrominated biphenyl (DiBB)                 | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Tribrominated biphenyl (TriBB)               | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Tetrabrominated biphenyl<br>(TetraBB)        | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Pentabrominated biphenyl (PentaBB)           | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Hexabrominated biphenyl<br>(HexaBB)          | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Heptabrominated biphenyl<br>(HeptaBB)        | -             | mg/kg   | 5    | ND           | ND  | NC   |  |
| Octabrominated biphenyl<br>(OctaBB)          | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Nonabrominated biphenyl<br>(NonaBB)          | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Decabrominated biphenyl<br>(DecaBB)          | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Polybrominated diphenyl ethers (PBDE)        | 1000          | mg/kg   | -    | ND           | ND  | NE   |  |
| Monobrominated diphenyl ether (MonoBDE)      | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Dibrominated diphenyl ether (DiBDE)          | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Tribrominated diphenyl ether<br>(TriBDE)     | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Tetrabrominated diphenyl ether (TetraBDE)    | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Pentabrominated diphenyl ether<br>(PentaBDE) | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | -             | mg/kg   | 5    | ND           | ND  | NC   |  |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -             | mg/kg   | 5    | ND           | ND  | NC   |  |
| Octabrominated diphenyl ether<br>(OctaBDE)   | -             | mg/kg   | 5    | ND           | ND  | NC   |  |
| Nonabrominated diphenyl ether (NonaBDE)      | -             | mg/kg   | 5    | ND           | ND  | ND   |  |
| Decabrominated diphenyl ether (DecaBDE)      | -             | mg/kg   | 5    | ND           | ND  | NE   |  |
| Bis(2-ethylhexyl) phthalate<br>(DEHP)        | 1000          | mg/kg   | 50   | ND           | ND  | NE   |  |
| Butyl benzyl 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 | A16 | A38 | A45 |
|--------------|-------|---------|-----|-----|-----|-----|
| Lead (Pb)    | 1000  | mg/kg   | 2   | ND  | ND  | ND  |



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27



| Test Item(s)                               | Limit | Unit(s) | MDL | A45       |           |    |
|--|-------|---------|-----|-----------|-----------|----|
| Mercury (Hg)                               | 1000  | mg/kg   | 2   | A16<br>ND | A38<br>ND | ND |
| Cadmium (Cd)                               | 1000  | 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                    | 1000  |         |     |           |           | 1  |
| (MonoBB)                                   | -     | mg/kg   | 5   | ND        | ND        | ND |
| Dibrominated biphenyl (DiBB)               | -     | mg/kg   | 5   | ND        | ND        | ND |
| Tribrominated biphenyl (TriBB)             | -     | mg/kg   | 5   | ND        | ND        | ND |
| Tetrabrominated biphenyl (TetraBB)         | -     | mg/kg   | 5   | ND        | ND        | ND |
| Pentabrominated biphenyl<br>(PentaBB)      | -     | mg/kg   | 5   | ND        | ND        | ND |
| Hexabrominated biphenyl<br>(HexaBB)        | -     | mg/kg   | 5   | ND        | ND        | ND |
| Heptabrominated biphenyl<br>(HeptaBB)      | -     | mg/kg   | 5   | ND        | ND        | ND |
| Octabrominated biphenyl<br>(OctaBB)        | -     | mg/kg   | 5   | ND        | ND        | ND |
| Nonabrominated biphenyl<br>(NonaBB)        | -     | mg/kg   | 5   | ND        | ND        | ND |
| Decabrominated biphenyl (DecaBB)           | -     | mg/kg   | 5   | ND        | ND        | ND |
| Polybrominated diphenyl ethers (PBDE)      | 1000  | mg/kg   | -   | ND        | ND        | ND |
| Monobrominated diphenyl ether<br>(MonoBDE) | -     | mg/kg   | 5   | ND        | ND        | ND |
| Dibrominated diphenyl ether (DiBDE)        | -     | mg/kg   | 5   | ND        | ND        | ND |
| Tribrominated diphenyl ether (TriBDE)      | -     | mg/kg   | 5   | ND        | ND        | ND |
| Tetrabrominated diphenyl ether (TetraBDE)  | -     | mg/kg   | 5   | ND        | ND        | ND |
| Pentabrominated diphenyl ether (PentaBDE)  | -     | mg/kg   | 5   | ND        | ND        | ND |
| Hexabrominated diphenyl ether (HexaBDE)    | -     | mg/kg   | 5   | ND        | ND        | ND |
| Heptabrominated diphenyl ether (HeptaBDE)  | -     | mg/kg   | 5   | ND        | ND        | ND |
| Octabrominated diphenyl ether<br>(OctaBDE) | -     | mg/kg   | 5   | ND        | ND        | ND |
| Nonabrominated diphenyl ether (NonaBDE)    | -     | mg/kg   | 5   | ND        | ND        | ND |
| Decabrominated diphenyl ether (DecaBDE)    | -     | mg/kg   | 5   | ND        | ND        | ND |
| Bis(2-ethylhexyl) phthalate<br>(DEHP)      | 1000  | mg/kg   | 50  | ND        | ND        | ND |
| Butyl benzyl 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 |



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| -  | EC240001 | ·       | Date: |    |
|--|----------|---------|-------|----|
| Test Item(s)                                 | Limit    | Unit(s) | MDL   | A4 |
| Lead (Pb)                                    | 1000     | mg/kg   | 2     | NE |
| Mercury (Hg)                                 | 1000     | mg/kg   | 2     | NE |
| Cadmium (Cd)                                 | 100      | mg/kg   | 2     | NE |
| Hexavalent Chromium (Cr(VI))                 | 1000     | mg/kg   | 8     | NE |
| Polybrominated biphenyls (PBB)               | 1000     | mg/kg   | -     | NE |
| Monobrominated biphenyl<br>(MonoBB)          | -        | mg/kg   | 5     | NE |
| Dibrominated biphenyl (DiBB)                 | -        | mg/kg   | 5     | NE |
| Tribrominated biphenyl (TriBB)               | -        | mg/kg   | 5     | NE |
| Tetrabrominated biphenyl<br>(TetraBB)        | -        | mg/kg   | 5     | NE |
| Pentabrominated biphenyl<br>(PentaBB)        | -        | mg/kg   | 5     | NE |
| Hexabrominated biphenyl<br>(HexaBB)          | -        | mg/kg   | 5     | NE |
| Heptabrominated biphenyl<br>(HeptaBB)        | -        | mg/kg   | 5     | NE |
| Octabrominated biphenyl<br>(OctaBB)          | -        | mg/kg   | 5     | NE |
| Nonabrominated biphenyl<br>(NonaBB)          | -        | mg/kg   | 5     | NE |
| Decabrominated biphenyl<br>(DecaBB)          | -        | mg/kg   | 5     | NE |
| Polybrominated diphenyl ethers<br>(PBDE)     | 1000     | mg/kg   | -     | NE |
| Monobrominated diphenyl ether<br>(MonoBDE)   | -        | mg/kg   | 5     | NE |
| Dibrominated diphenyl ether<br>(DiBDE)       | -        | mg/kg   | 5     | NE |
| Tribrominated diphenyl ether<br>(TriBDE)     | _        | mg/kg   | 5     | NE |
| Tetrabrominated diphenyl ether<br>(TetraBDE) | -        | mg/kg   | 5     | NE |
| Pentabrominated diphenyl ether<br>(PentaBDE) | _        | mg/kg   | 5     | NE |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | _        | mg/kg   | 5     | NE |
| Heptabrominated diphenyl ether               | -        | mg/kg   | 5     | NE |
| (HeptaBDE)<br>Octabrominated diphenyl ether  | -        | mg/kg   | 5     | NE |
| (OctaBDE)<br>Nonabrominated diphenyl ether   | -        | mg/kg   | 5     | NE |
| (NonaBDE)<br>Decabrominated diphenyl ether   | -        | mg/kg   | 5     | NE |
| (DecaBDE)<br>Bis(2-ethylhexyl) phthalate     | 1000     | mg/kg   | 50    | NE |
| (DEHP)                                       |          |         |       |    |
| Butyl benzyl phthalate (BBP)                 | 1000     | mg/kg   | 50    | NE |
| Dibutyl phthalate (DBP)                      | 1000     | mg/kg   | 50    | NE |
| Diisobutyl phthalate (DIBP)                  | 1000     | mg/kg   | 50    | NE |



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Page 6 of 27

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## **Test Report**

## No.: SHAEC24000195805

**Date:** Jan 19, 2024

## 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.

(4) ▲ 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

## 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 toTitration method, 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, UV-Vis and GC-MS.

| Test Item(s)                                 | Limit | Unit(s) | MDL  | A26   |
|--|-------|---------|------|-------|
| Cadmium (Cd)                                 | 100   | mg/kg   | 2    | ND    |
| Lead(Pb)                                     | 0.1   | %       | -    | 92.1▲ |
| Mercury (Hg)                                 | 1000  | mg/kg   | 2    | ND    |
| Hexavalent Chromium (Cr(VI))▼                | -     | µg/cm²  | 0.10 | ND    |
| Polybrominated biphenyls (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    |
| 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    |
| Polybrominated diphenyl ethers (PBDE)        | 1000  | mg/kg   | -    | ND    |
| Monobrominated diphenyl ether<br>(MonoBDE)   | -     | mg/kg   | 5    | ND    |
| Dibrominated diphenyl ether (DiBDE)          | -     | mg/kg   | 5    | ND    |
| Tribrominated diphenyl ether (TriBDE)        | -     | mg/kg   | 5    | ND    |
| Tetrabrominated diphenyl ether<br>(TetraBDE) | -     | mg/kg   | 5    | ND    |
| Pentabrominated diphenyl ether<br>(PentaBDE) | -     | mg/kg   | 5    | ND    |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | -     | mg/kg   | 5    | ND    |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -     | mg/kg   | 5    | ND    |



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| Test Report No.: SHAEC240               | 000195805 | Date: Jai | n 19, 2024 | Page 8 of 2 |
|---|-----------|-----------|------------|-------------|
| Test Item(s)                            | Limit     | Unit(s)   | MDL        | A26         |
| Octabrominated diphenyl ether (OctaBDE) | -         | mg/kg     | 5          | ND          |
| Nonabrominated diphenyl ether (NonaBDE) | -         | mg/kg     | 5          | ND          |
| Decabrominated diphenyl ether (DecaBDE) | -         | 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 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)  $\mathbf{\nabla}$  = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. 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<sup>2</sup>). The coating is considered a non-CrVI based coating.

c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> 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.

(4) ▲ 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

## 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  | A1 | A10 | A14 |
|---------------------------------------|-------|---------|------|----|-----|-----|
| Lead (Pb)                             | 1000  | mg/kg   | 2    | 31 | 7   | ND  |
| Mercury (Hg)                          | 1000  | mg/kg   | 2    | ND | ND  | ND  |
| Cadmium (Cd)                          | 100   | mg/kg   | 2    | ND | ND  | ND  |
| Hexavalent Chromium (Cr(VI))▼         | -     | µg/cm²  | 0.10 | ND | ND  | ND  |
| Polybrominated biphenyls (PBB)        | 1000  | mg/kg   | -    | ND | ND  | ND  |
| Monobrominated biphenyl<br>(MonoBB)   | -     | mg/kg   | 5    | ND | ND  | ND  |
| Dibrominated biphenyl (DiBB)          | -     | mg/kg   | 5    | ND | ND  | ND  |
| Tribrominated biphenyl (TriBB)        | -     | mg/kg   | 5    | ND | ND  | ND  |
| Tetrabrominated biphenyl<br>(TetraBB) | -     | mg/kg   | 5    | ND | ND  | ND  |
| Pentabrominated biphenyl<br>(PentaBB) | -     | mg/kg   | 5    | ND | ND  | ND  |



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| Report No.: SHA                              | EC240001 | 95805              | Date | : Jan 19, 20 | )24 | Page 9 |
|--|----------|--------------------|------|--------------|-----|--------|
| Test Item(s)                                 | Limit    | Unit(s)            | MDL  | A1           | A10 | A14    |
| Hexabrominated biphenyl<br>(HexaBB)          | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Heptabrominated biphenyl<br>(HeptaBB)        | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Octabrominated biphenyl<br>(OctaBB)          | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Nonabrominated biphenyl (NonaBB)             | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Decabrominated biphenyl (DecaBB)             | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Polybrominated diphenyl ethers (PBDE)        | 1000     | mg/kg              | -    | ND           | ND  | ND     |
| Monobrominated diphenyl ether<br>(MonoBDE)   | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Dibrominated diphenyl ether<br>(DiBDE)       | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Tribrominated diphenyl ether<br>(TriBDE)     | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Tetrabrominated diphenyl ether (TetraBDE)    | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Pentabrominated diphenyl ether (PentaBDE)    | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Hexabrominated diphenyl ether (HexaBDE)      | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Octabrominated diphenyl ether<br>(OctaBDE)   | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Nonabrominated diphenyl ether<br>(NonaBDE)   | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Decabrominated diphenyl ether<br>(DecaBDE)   | -        | mg/kg              | 5    | ND           | ND  | ND     |
| Bis(2-ethylhexyl) phthalate<br>(DEHP)        | 1000     | mg/kg              | 50   | ND           | ND  | ND     |
| Butyl benzyl 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  | A35          | A42 | A44    |
| Lead (Pb)                                    | 1000     | mg/kg              | 2    | 7            | 7   | 8      |
| Mercury (Hg)                                 | 1000     | mg/kg              | 2    | ND           | ND  | ND     |
| Cadmium (Cd)                                 | 100      | mg/kg              | 2    | ND           | ND  | ND     |
| Hexavalent Chromium (Cr(VI))▼                | -        | µg/cm <sup>2</sup> | 0.10 | ND           | ND  | ND     |
| Polybrominated biphenyls (PBB)               | 1000     | mg/kg              | -    | ND           | ND  | ND     |

| Hexavalent Chromium (Cr(VI)) <sup>▼</sup> | -    | µg/cm² | 0.10 | ND | ND | ND |
|---|------|--------|------|----|----|----|
| Polybrominated biphenyls (PBB)            | 1000 | mg/kg  | -    | ND | ND | ND |
| Monobrominated biphenyl<br>(MonoBB)       | -    | mg/kg  | 5    | ND | ND | ND |
| Dibrominated biphenyl (DiBB)              | -    | mg/kg  | 5    | ND | ND | ND |
| Tribrominated biphenyl (TriBB)            | -    | mg/kg  | 5    | ND | ND | ND |
| Tetrabrominated biphenyl<br>(TetraBB)     | -    | mg/kg  | 5    | ND | ND | ND |



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| Report No.: SHA                              | EC240001 | 95805   | Date | : Jan 19, 20 | )24 | Page 1 |
|--|----------|---------|------|--------------|-----|--------|
| Test Item(s)                                 | Limit    | Unit(s) | MDL  | A35          | A42 | A44    |
| Pentabrominated biphenyl<br>(PentaBB)        | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Hexabrominated biphenyl<br>(HexaBB)          | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Heptabrominated biphenyl<br>(HeptaBB)        | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Octabrominated biphenyl<br>(OctaBB)          | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Nonabrominated biphenyl<br>(NonaBB)          | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Decabrominated biphenyl (DecaBB)             | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Polybrominated diphenyl ethers (PBDE)        | 1000     | mg/kg   | -    | ND           | ND  | ND     |
| Monobrominated diphenyl ether<br>(MonoBDE)   | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Dibrominated diphenyl ether<br>(DiBDE)       | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Tribrominated diphenyl ether (TriBDE)        | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Tetrabrominated diphenyl ether (TetraBDE)    | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Pentabrominated diphenyl ether<br>(PentaBDE) | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Octabrominated diphenyl ether<br>(OctaBDE)   | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Nonabrominated diphenyl ether (NonaBDE)      | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Decabrominated diphenyl ether<br>(DecaBDE)   | -        | mg/kg   | 5    | ND           | ND  | ND     |
| Bis(2-ethylhexyl) phthalate (DEHP)           | 1000     | mg/kg   | 50   | ND           | ND  | ND     |
| Butyl benzyl 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  | A47 |
|-------------------------------------|-------|---------|------|-----|
| 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/cm²  | 0.10 | ND  |
| Polybrominated biphenyls (PBB)      | 1000  | mg/kg   | -    | ND  |
| Monobrominated biphenyl<br>(MonoBB) | -     | mg/kg   | 5    | ND  |
| Dibrominated biphenyl (DiBB)        | -     | mg/kg   | 5    | ND  |
| Tribrominated biphenyl (TriBB)      | -     | mg/kg   | 5    | ND  |



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| t Report No.: SHA                            | AEC240001 | 95805   | Date: | Jan 19, 20 |
|--|-----------|---------|-------|------------|
| Test Item(s)                                 | Limit     | Unit(s) | MDL   | A47        |
| Tetrabrominated biphenyl<br>(TetraBB)        | -         | mg/kg   | 5     | ND         |
| Pentabrominated biphenyl (PentaBB)           | -         | mg/kg   | 5     | ND         |
| Hexabrominated biphenyl<br>(HexaBB)          | -         | mg/kg   | 5     | ND         |
| Heptabrominated biphenyl<br>(HeptaBB)        | -         | mg/kg   | 5     | ND         |
| Octabrominated biphenyl<br>(OctaBB)          | -         | mg/kg   | 5     | ND         |
| Nonabrominated biphenyl<br>(NonaBB)          | -         | mg/kg   | 5     | ND         |
| Decabrominated biphenyl<br>(DecaBB)          | -         | mg/kg   | 5     | ND         |
| Polybrominated diphenyl ethers (PBDE)        | 1000      | mg/kg   | -     | ND         |
| Monobrominated diphenyl ether (MonoBDE)      | -         | mg/kg   | 5     | ND         |
| Dibrominated diphenyl ether<br>(DiBDE)       | -         | mg/kg   | 5     | ND         |
| Tribrominated diphenyl ether<br>(TriBDE)     | -         | mg/kg   | 5     | ND         |
| Tetrabrominated diphenyl ether (TetraBDE)    | -         | mg/kg   | 5     | ND         |
| Pentabrominated diphenyl ether (PentaBDE)    | -         | mg/kg   | 5     | ND         |
| Hexabrominated diphenyl ether<br>(HexaBDE)   | -         | mg/kg   | 5     | ND         |
| Heptabrominated diphenyl ether<br>(HeptaBDE) | -         | mg/kg   | 5     | ND         |
| Octabrominated diphenyl ether<br>(OctaBDE)   | -         | mg/kg   | 5     | ND         |
| Nonabrominated diphenyl ether<br>(NonaBDE)   | -         | mg/kg   | 5     | ND         |
| Decabrominated diphenyl ether<br>(DecaBDE)   | -         | mg/kg   | 5     | ND         |
| Bis(2-ethylhexyl) phthalate<br>(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 µg/cm<sup>2</sup>. 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/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination.



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Page 11 of 27



## Test Report No.: SHAEC24000195805 Date: Jan 19, 2024

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.

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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Page 12 of 27

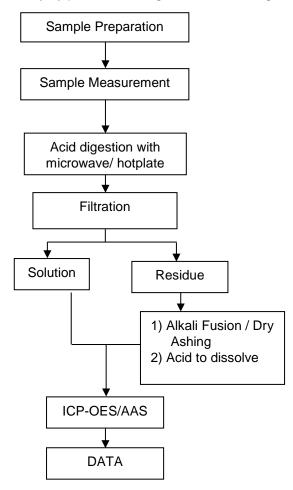


No.: SHAEC24000195805

Date: Jan 19, 2024

## **Elements Testing Flow Chart**

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





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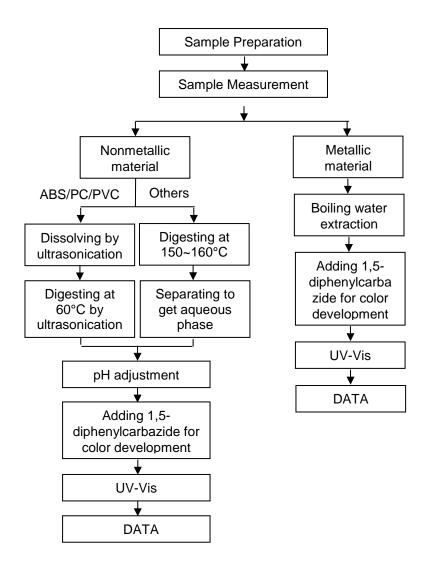
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No.: SHAEC24000195805

Date: Jan 19, 2024

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





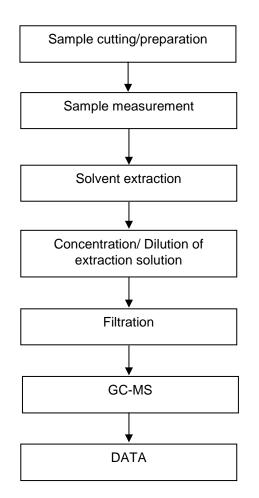
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## **PBBs/PBDEs Testing Flow Chart**





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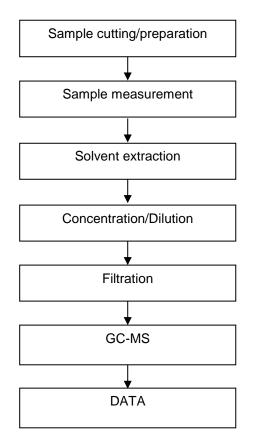
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#### **Phthalates Testing Flow Chart**





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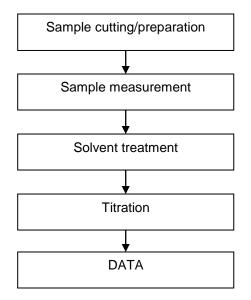
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Test Report ATTACHMENTS

## **Titration Testing Flow Chart**





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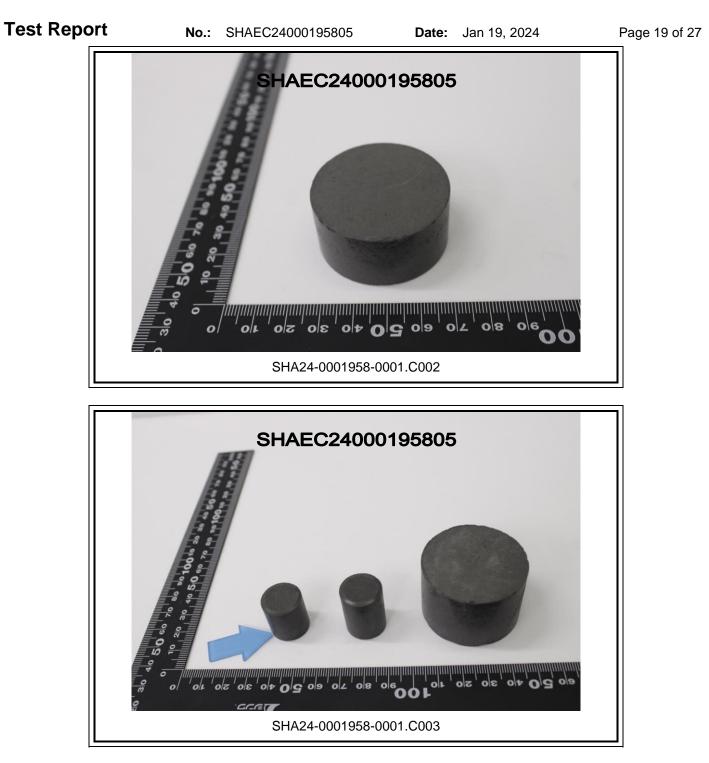




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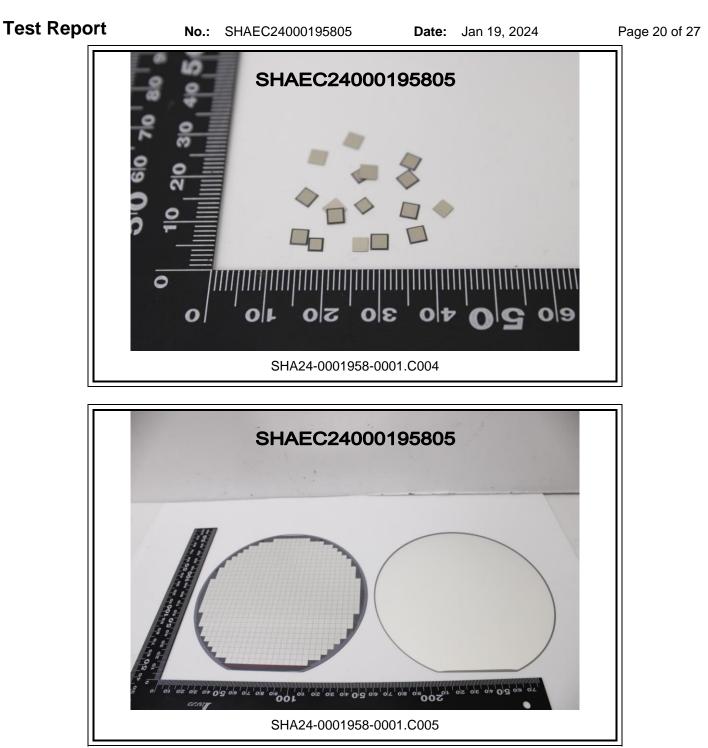




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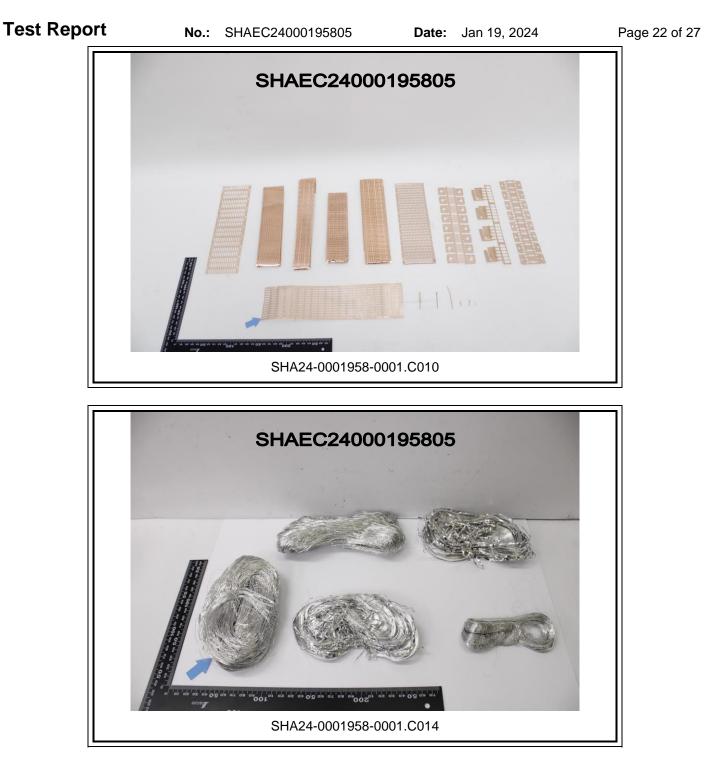




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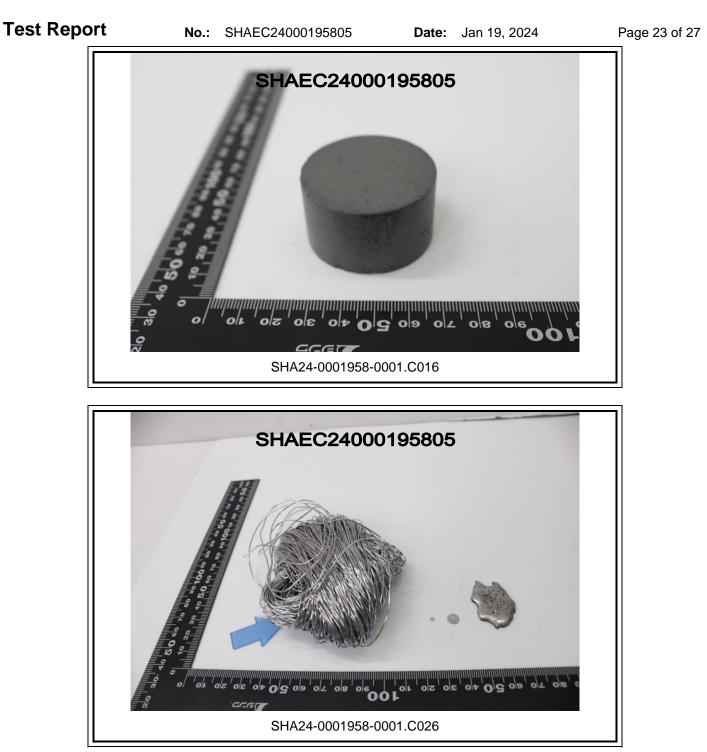




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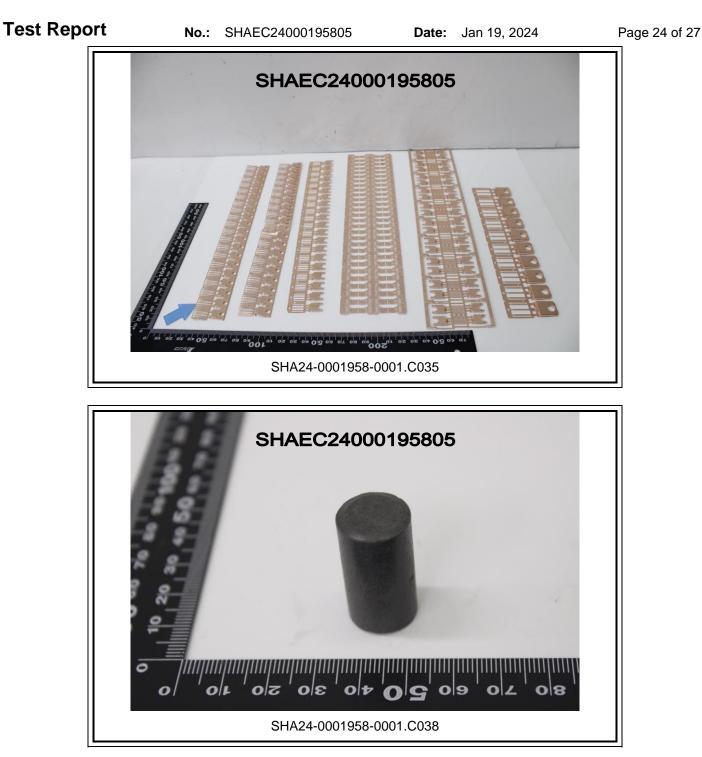




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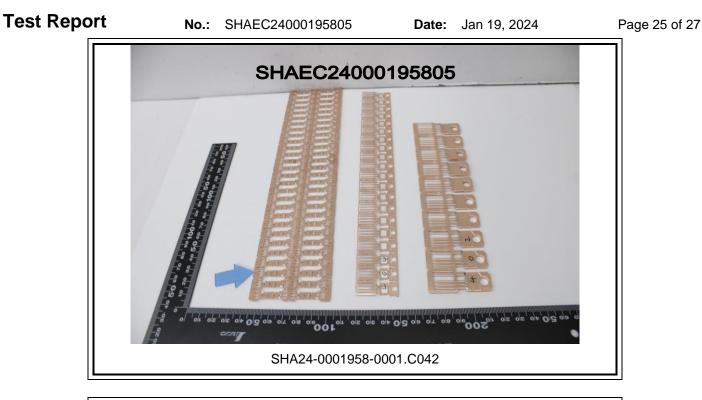


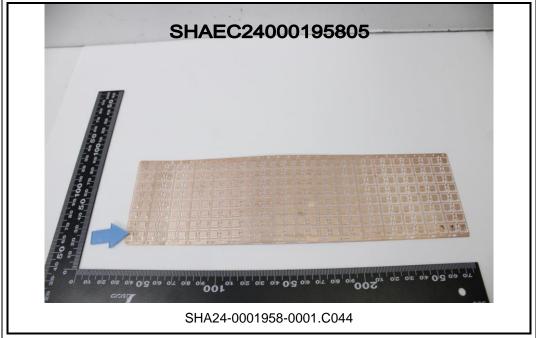


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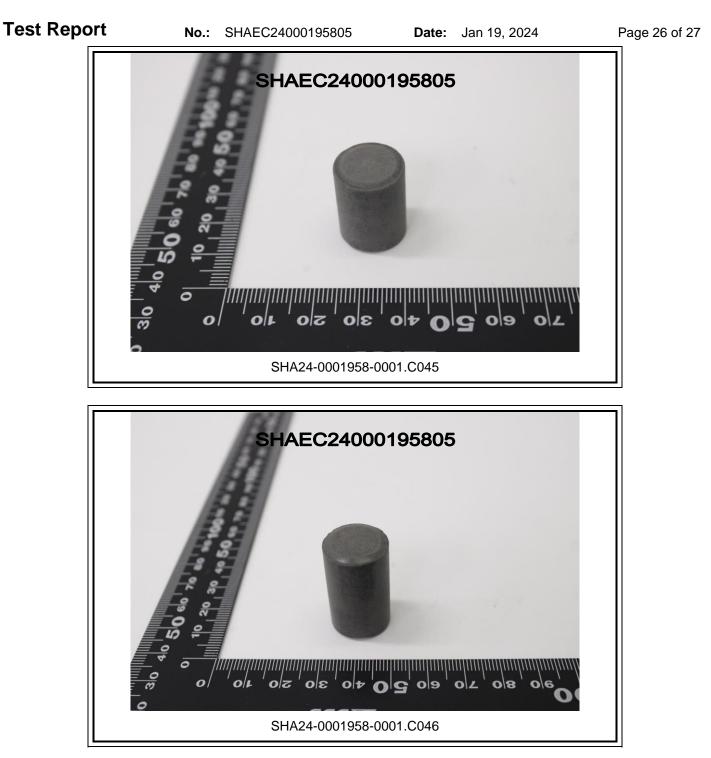




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