

**Test Report No.:** SHAEC23001311001 **Date:** Feb 20, 2023 Page 1 of 12

Client Name: NANJING SART SCIENCE & TECHNOLOGY DEVELOPMENT CO.,LTD.

Client Address: MAQUN SCIENCE & TECHNOLOGY PARK, QINGMA ROAD 6#, NANJING, CHINA

Sample Name: CSR Model No.: SMD

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

SGS Job No.: TIC1020230213162052FR19

Sample Receiving Date: Feb 15, 2023

Testing Period: Feb 15, 2023 ~ Feb 20, 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  |
|--|-------------|
| Element(s)   | See Results |
| Halogen  | See Results |
| 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        |
| Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)  | See Results |

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

Tom No

Tom Ni

Approved Signatory





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### Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description   |
|-------|------------|-------------------------|---|
| SN1   | A1         | SHA23-0013110-0001.C001 | White/green body with silvery metal with black printing |

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

| Test Item(s)  | Unit(s) | MDL | A1 |
|---------------|---------|-----|----|
| Beryllium(Be) | mg/kg   | 5   | ND |
| Antimony(Sb)  | mg/kg   | 10  | ND |

### **Halogen**

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

| Test Item(s) | Unit(s) | MDL | A1 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 50  | ND |
| Chlorine(CI) | mg/kg   | 50  | ND |
| Bromine(Br)  | mg/kg   | 50  | ND |
| lodine(I)    | mg/kg   | 50  | ND |

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 IEC 62321-8:2017, analysis was performed by ICP-OES, AAS, UV-

Vis and GC-MS.

| Test Item(s)                 | Limit | Unit(s) | MDL | A1 |
|------------------------------|-------|---------|-----|----|
| Cadmium(Cd)                  | 100   | mg/kg   | 2   | ND |
| Lead (Pb)                    | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                 | 1000  | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI)) | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBBs)     | 1000  | mg/kg   | -   | ND |
| Monobromobiphenyl (MonoBB)   | -     | mg/kg   | 5   | ND |
| Dibromobiphenyl (DiBB)       | -     | mg/kg   | 5   | ND |
| Tribromobiphenyl (TriBB)     | -     | mg/kg   | 5   | ND |
| Tetrabromobiphenyl (TetraBB) | -     | mg/kg   | 5   | ND |
| Pentabromobiphenyl (PentaBB) | -     | mg/kg   | 5   | ND |
| Hexabromobiphenyl (HexaBB)   | -     | mg/kg   | 5   | ND |



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| Test Item(s)                       | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------|---------|-----|----|
| Heptabromobiphenyl (HeptaBB)       | -     | mg/kg   | 5   | ND |
| Octabromobiphenyl (OctaBB)         | =     | mg/kg   | 5   | ND |
| Nonabromobiphenyl (NonaBB)         | =     | mg/kg   | 5   | ND |
| Decabromobiphenyl (DecaBB)         | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether(PBDEs)     | 1000  | mg/kg   | -   | ND |
| Monobromodiphenylether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibromodiphenylether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribromodiphenylether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabromodiphenylether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabromodiphenylether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabromodiphenylether (HexaBDE)   | -     | mg/kg   | 5   | ND |
| Heptabromodiphenylether (HeptaBDE) | -     | mg/kg   | 5   | ND |
| Octabromodiphenylether (OctaBDE)   | -     | mg/kg   | 5   | ND |
| Nonabromodiphenylether (NonaBDE)   | -     | mg/kg   | 5   | ND |
| Decabromodiphenylether (DecaBDE)   | -     | mg/kg   | 5   | ND |
| Dibutyl Phthalate(DBP)             | 1000  | mg/kg   | 50  | ND |
| Benzyl Butyl 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) 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.

### Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

| Test Item(s)  | CAS No.    | Unit(s) | MDL  | A1 |
|---|------------|---------|------|----|
| PFOS and Its Derivatives                                    | -          | mg/kg   | ı    | ND |
| Perfluorooctanesulfonic acid (PFOS)^                        | 1763-23-1  | mg/kg   | 0.01 | ND |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA)               | 4151-50-2  | mg/kg   | 0.01 | ND |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA)              | 31506-32-8 | mg/kg   | 0.01 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)   | 1691-99-2  | mg/kg   | 0.01 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)- ethanol (MeFOSE) | 24448-09-7 | mg/kg   | 0.01 | ND |
| Perfluorooctane Sulfonamide (PFOSA)                         | 754-91-6   | mg/kg   | 0.01 | ND |
| Perfluorooctanoic Acid (PFOA) and its salts+                | 335-67-1   | mg/kg   | 0.01 | ND |

(1) + PFOA refer to 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).



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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.



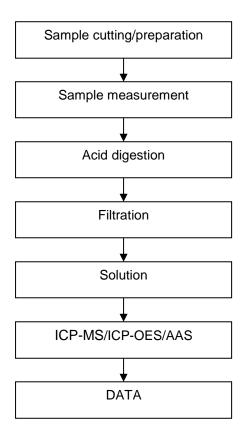
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### **Elements Testing Flow Chart**





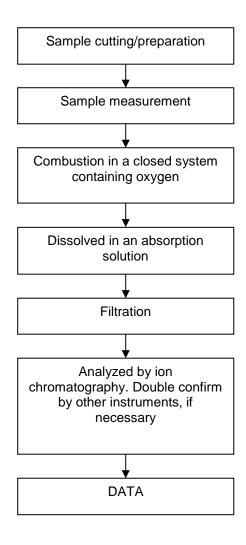
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### **Halogen Testing Flow Chart**





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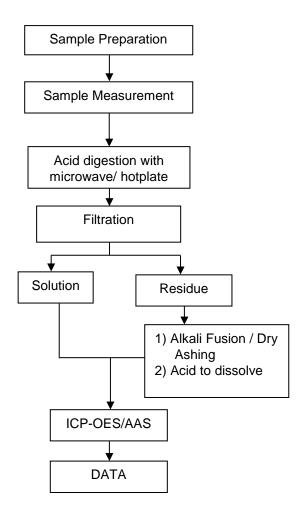
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### Elements (IEC62321) Testing Flow Chart

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





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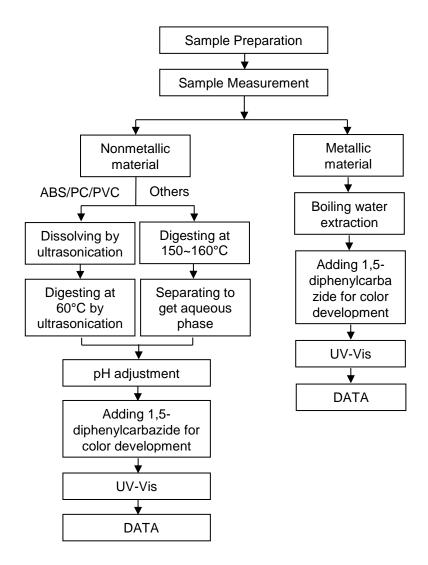
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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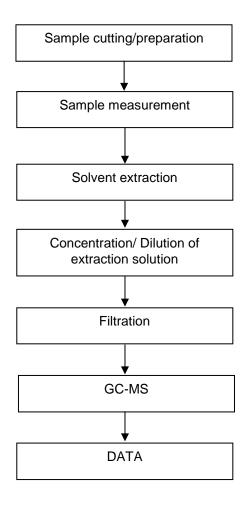
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### PBBs/PBDEs Testing Flow Chart





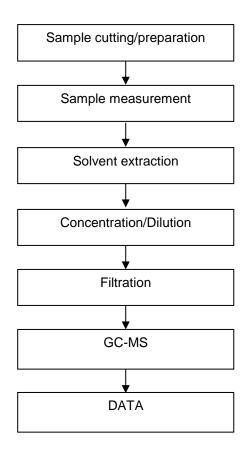
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### **Phthalates Testing Flow Chart**





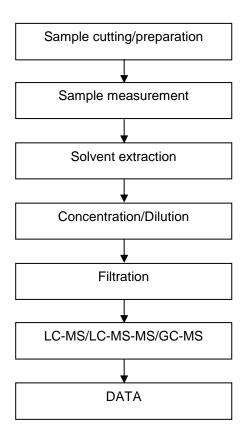
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### PFASs/ PFOS/PFOA Testing Flow Chart





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