

## Test Report

No.: SHAEC24026669821

Date: Dec 09, 2024

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Client Name: SH ELECTRONICS SUZHOU CO., LTD.

Client Address: NO.123,LongtanRd.3rd District, Suzhou Industrial Park,Suzhou,Jiangsu,China(215126).

Sample Name: LEAD FRAME

Model No.: C7025 (UNS#C70250)

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

SGS Job No.: SUP24-003673

Sample Receiving Date: Nov 21, 2024

Testing Period: Nov 21, 2024 ~ Dec 09, 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
Asbestos	See Results
Benzotriazole UV Absorbent	See Results
Chlorinated Paraffins	See Results
Element(s)	See Results
Halogen	See Results
Hexabromocyclododecane (HBCDD)	See Results
Organic-Tin compounds	See Results

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

Sue Sheng

Sue Sheng  
Approved Signatory

scan to see the report



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Test Requirement	Conclusion
Ozone Depleting Substances (ODS) and Global Warming Substances	See Results
Phthalates	See Results
Polychlorinated Biphenyls (PCBs)	See Results
Polychlorinated Naphthalenes (PCNs)	See Results
Polychlorinated Terphenyls (PCTs)	See Results
Polyvinyl chloride (PVC)	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives	See Results
Azo Dyes	See Results

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SHA24-0266698-0001.C003	copper metal

### 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:**
- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
  - (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES/AAS.
  - (3) With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP-OES.
  - (4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
  - (5) With reference to IEC 62321-12:2023, determination of PBB, PBDE and phthalates by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	27
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm <sup>2</sup>	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A3
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
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

## Notes:

- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series.
- ▼ =
  - The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu\text{g}/\text{cm}^2$ . The sample coating is considered to contain Cr(VI).
  - The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10  $\mu\text{g}/\text{cm}^2$ ). The coating is considered a non-Cr(VI) based coating.
  - The result between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  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.

## Asbestos



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**Test Method:** With reference to NIOSH 9002:1994, analysis was performed by PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Actinolite	77536-66-4	%(m/m)	0.1	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative

## Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

## Benzotriazole UV Absorbent

**Test Method:** With reference to US EPA 3550C:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol(UV 320)	3846-71-7	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4(tert-butyl)-6-(sec-butyl)phenol (UV 350)	36437-37-3	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol(UV 328)	25973-55-1	mg/kg	5	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV 327)	3864-99-1	mg/kg	5	ND
Drometrizole	2440-22-4	mg/kg	100	ND

## Chlorinated Paraffins

**Test Method:** With reference to US EPA 3550C:2007, analysis was performed by GC-ECD / GC-NCI-MS/GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Short Chain Chlorinate Paraffins(SCCP)(C10-C13)	85535-84-8	mg/kg	50	ND

## Element(s)

**Test Method:** With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A3
Antimony(Sb)	mg/kg	10	ND
Antimony Trioxide(Sb <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	12	ND
Phosphorus(P)	mg/kg	20	49
Beryllium(Be)	mg/kg	5	ND
Beryllium Oxide(BeO) ◆	mg/kg	15	ND



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Test Item(s)	Unit(s)	MDL	A3
Arsenic(As)	mg/kg	10	ND
Diarsenic Trioxide(As <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	10	ND
Diarsenic Pentaoxide(As <sub>2</sub> O <sub>5</sub> ) ◆	mg/kg	10	ND

## Notes:

- (1) ◆Sb<sub>2</sub>O<sub>3</sub>: Calculate from Antimony content.  
 ◆BeO: Calculate from Beryllium content.  
 ◆As<sub>2</sub>O<sub>3</sub>, As<sub>2</sub>O<sub>5</sub>: Calculate from Arsenic content.

## Halogen

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

Test Item(s)	Unit(s)	MDL	A3
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

## Hexabromocyclododecane (HBCDD)

**Test Method:** With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

**Test Method:** With reference to US EPA 3550C:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	10	ND

## Organic-Tin compounds

**Test Method:** With reference to DIN 38407-13:2001, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Methyl tin(MT)	mg/kg	0.5	ND
Dipropyltin(DPrT)	mg/kg	0.5	ND



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Test Item(s)	Unit(s)	MDL	A3
Dibutyl tin(DBT)	mg/kg	0.5	ND
Tributyl tin(TBT)	mg/kg	0.5	ND
Monobutyl tin(MBT)	mg/kg	0.5	ND
Monooctyl tin(MOT)	mg/kg	0.5	ND
Tetrabutyl tin(TTBT)	mg/kg	0.5	ND
Diocetyl tin(DOT)	mg/kg	0.5	ND
Tri-n-propyltin chloride(TPT)	mg/kg	0.5	ND
Tricyclohexyltin(TCyHT)	mg/kg	0.5	ND
Trioctyltin(TOT)	mg/kg	0.5	ND
Triphenyl tin (TPhT)	mg/kg	0.5	ND
Trimethyltin(TMT) by Weight of Tin	mg/kg	100	ND

## Ozone Depleting Substances (ODS) and Global Warming Substances

**Test Method:** With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
<b>CFC</b>				
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112a	76-11-9	µg/g	0.1	ND
CFC-112	76-12-0	µg/g	0.1	ND
CFC-113	76-13-1	µg/g	0.1	ND
CFC-113a	354-58-5	µg/g	0.1	ND
CFC-114	76-14-2	µg/g	0.1	ND
CFC-114a	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215aa	1599-41-3	µg/g	0.1	ND
CFC-215	76-17-5	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-216aa	1652-80-8	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
<b>HCFC</b>				
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND



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HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-132	431-06-1	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-133	431-07-2	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-141	430-57-9	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-224	422-54-8	µg/g	0.1	ND
HCFC-142	338-65-8	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-151	762-50-5	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-225	141563-84-0	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261fc	7799-56-6	µg/g	0.1	ND
HCFC-261	420-97-3	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262da	102738-79-4	µg/g	0.1	ND
HCFC-262ca	420-99-5	µg/g	0.1	ND
<b>HBFC</b>				
CHF <sub>2</sub> Br	1511-62-2	µg/g	0.1	ND
CH <sub>2</sub> FBr	373-52-4	µg/g	0.1	ND
C <sub>2</sub> HFBr <sub>4</sub>	-	µg/g	0.1	ND
C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>	354-04-1	µg/g	0.1	ND
C <sub>2</sub> HF <sub>4</sub> Br	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub>	75-82-1	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br	421-06-7	µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br	359-07-9	µg/g	0.1	ND
C <sub>2</sub> H <sub>4</sub> FBr	762-49-2	µg/g	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
C <sub>3</sub> HBr <sub>6</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> Br <sub>5</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> Br <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>6</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> FBr <sub>5</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> FBr <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>2</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> FBr <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> FBr <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>6</sub> FBr	-	µg/g	0.1	ND
<b>Halon</b>				
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND
<b>Others</b>				
Dibromofluoromethane	1868-53-7	µg/g	0.1	ND
Methyl bromide	74-83-9	µg/g	0.1	ND
Bromochloromethane	74-97-5	µg/g	0.1	ND
SF <sub>6</sub>	2551-62-4	µg/g	0.1	ND
<b>HFC</b>				
HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee	138495-42-8	µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND
HFC-227ea	431-89-0	µg/g	0.1	ND
HFC-236 cb	677-56-5	µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa	460-73-1	µg/g	0.1	ND
HFC-365mfc	406-58-6	µg/g	0.1	ND
<b>PFC</b>				



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Perfluoromethane	75-73-0	µg/g	0.1	ND
Perfluoroethane	76-16-4	µg/g	0.1	ND
Perfluoropropane	76-19-7	µg/g	0.1	ND
Perfluorobutane	355-25-9	µg/g	0.1	ND
Perfluoropentane	678-26-2	µg/g	0.1	ND
Perfluorohexane	355-42-0	µg/g	0.1	ND
Perfluorocyclobutane	115-25-3	µg/g	0.1	ND
<b>CHC</b>				
1,3-dichloropropane	142-28-9	µg/g	0.1	ND
2,2-dichloropropane	594-20-7	µg/g	0.1	ND
Carbon tetrachloride	56-23-5	µg/g	0.1	ND
Chloroethane	75-00-3	µg/g	0.1	ND
Chloroform	67-66-3	µg/g	0.1	ND
Chloromethane	74-87-3	µg/g	0.1	ND
Cis-1,2-dichloroethene	156-59-2	µg/g	0.1	ND
Cis-1,3-dichloropropene	10061-01-5	µg/g	0.1	ND
Hexachlorobutadiene	87-68-3	µg/g	0.1	ND
Methylene chloride	75-09-2	µg/g	0.1	ND
Tetrachloroethene	127-18-4	µg/g	0.1	ND
Trans-1,2-dichloroethene	156-60-5	µg/g	0.1	ND
Trans-1,3-dichloropropene	10061-02-6	µg/g	0.1	ND
Trichloroethylene	79-01-6	µg/g	0.1	ND
1,1,1,2-tetrachloroethane	630-20-6	µg/g	0.1	ND
1,1,1-trichloroethane	71-55-6	µg/g	0.1	ND
1,1,2,2-tetrachloroethane	79-34-5	µg/g	0.1	ND
1,1,2-trichloroethane	79-00-5	µg/g	0.1	ND
1,1-dichloroethane	75-34-3	µg/g	0.1	ND
1,1-dichloroethene	75-35-4	µg/g	0.1	ND
1,1-dichloropropene	563-58-6	µg/g	0.1	ND
1,2,3-trichloropropane	96-18-4	µg/g	0.1	ND
1,2-dichloroethane	107-06-2	µg/g	0.1	ND
1,2-dichloropropane	78-87-5	µg/g	0.1	ND

## Phthalates

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

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	mg/kg	50	ND
Di-n-Heptyl Phthalate(DnHpP)	3648-21-3	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	mg/kg	50	ND
1,2-Benzenedicarboxylic,dihexylester, branched and linear	68515-50-4	mg/kg	50	ND

### Polychlorinated Biphenyls (PCBs)

**Test Method:** With reference to US EPA 8082A:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
2,2',5-Trichlorobiphenyl (PCB18)	37680-65-2	mg/kg	0.5	ND
2,4,4'-Trichlorobiphenyl (PCB28)	7012-37-5	mg/kg	0.5	ND
2,4',5-Trichlorobiphenyl (PCB31)	16606-02-3	mg/kg	0.5	ND
2,2',3,5'-Tetrachlorobiphenyl (PCB44)	41464-39-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachlorobiphenyl (PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachlorobiphenyl (PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB180)	35065-29-3	mg/kg	0.5	ND
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB206)	40186-72-9	mg/kg	0.5	ND
Sum of PCBs	-	mg/kg	-	ND
4-Chlorobiphenyl (PCB3)	2051-62-9	mg/kg	0.5	ND
2,4'- Dichlorobiphenyl (PCB8)	34883-43-7	mg/kg	0.5	ND
2,4,5-Trichlorobiphenyl (PCB29)	15862-07-4	mg/kg	0.5	ND
2,2',4,6-Tetrachlorobiphenyl (PCB50)	62796-65-0	mg/kg	0.5	ND
2,2',3,4',5',6-Hexachlorobiphenyl (PCB149)	38380-04-0	mg/kg	0.5	ND
2,2',3,3',4,4',5,5'- Octachlorobiphenyl (PCB194)	35694-08-7	mg/kg	0.5	ND
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (PCB209)	2051-24-3	mg/kg	0.5	ND

### Polychlorinated Naphthalenes (PCNs)

**Test Method:** With reference to US EPA 8081B:2007, analysis was performed by GC-MS.



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
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:** With reference to US EPA 8082A: 2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
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

**Polyvinyl chloride (PVC)****Test Method:** With reference to SGS in house method, analysis was performed by FTIR/HATR.

Test Item(s)	A3
Polyvinyl chloride (PVC)	Negative

**Notes:**

(1) Negative=Undetectable, Positive=Detectable

**Tetrabromobisphenol A (TBBP-A)****Test Method:** With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Tetrabromobisphenol A(TBBPA)	79-94-7	mg/kg	10	ND

**Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives****Test Method:** Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
<b>PFOS, its salts and related compounds</b>				
Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup>	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND
<b>PFOA, its salts</b>				
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND

## Notes:

1. ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
<b>PFOS, its salts &amp; derivatives</b>	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH <sub>4</sub> )	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )	56773-44-5



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N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
<b>FOSAA, its salts</b>	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
<b>N-MeFOSAA, its salts</b>	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
<b>N-EtFOSAA, its salts</b>	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
<b>PFOSA, its salts</b>	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)	76752-82-4
<b>PFOA, its salts &amp; derivatives</b>	
Perfluorooctanoic acid (PFOA)	335-67-1



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Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)	927835-01-6

## Azo Dyes

**Test Method:** With reference to EN ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
<b>Direct Reduction*</b>				
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-Chlor-o-toluidine	95-69-2	mg/kg	5	ND
2-Naphthylamine	91-59-8	mg/kg	5	ND
o-Aminoazotoluene	97-56-3	mg/kg	5	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	mg/kg	5	ND
4-Chloroaniline	106-47-8	mg/kg	5	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	mg/kg	5	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-Dimethybenzidine	119-93-7	mg/kg	5	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	mg/kg	5	ND
p-Cresidine	120-71-8	mg/kg	5	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND
4,4'-Oxydianiline	101-80-4	mg/kg	5	ND
4,4'-Thiodianiline	139-65-1	mg/kg	5	ND
o-Toluidine	95-53-4	mg/kg	5	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylendiamine, TDA	95-80-7	mg/kg	5	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	5	ND
4-Aminoazobenzene	60-09-3	mg/kg	5	ND
O-Anisidine	90-04-0	mg/kg	5	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND

### Notes:

- (1) \*Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.
- (2) EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- (3) The result interpretation and assessment guide according to Annex C of EN ISO 14362-1:2017 should be taken into account when assessing the source of amine.

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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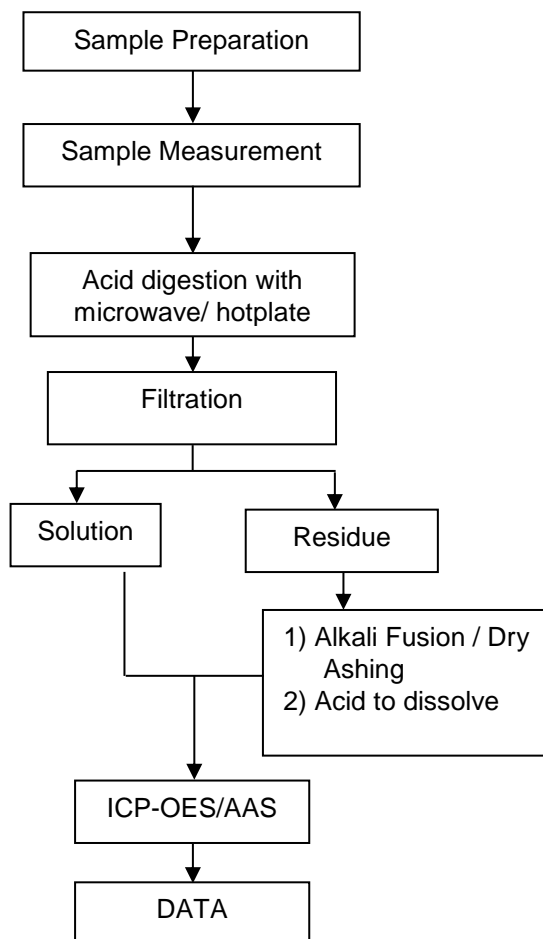
### ATTACHMENTS

#### Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: John Cheng

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



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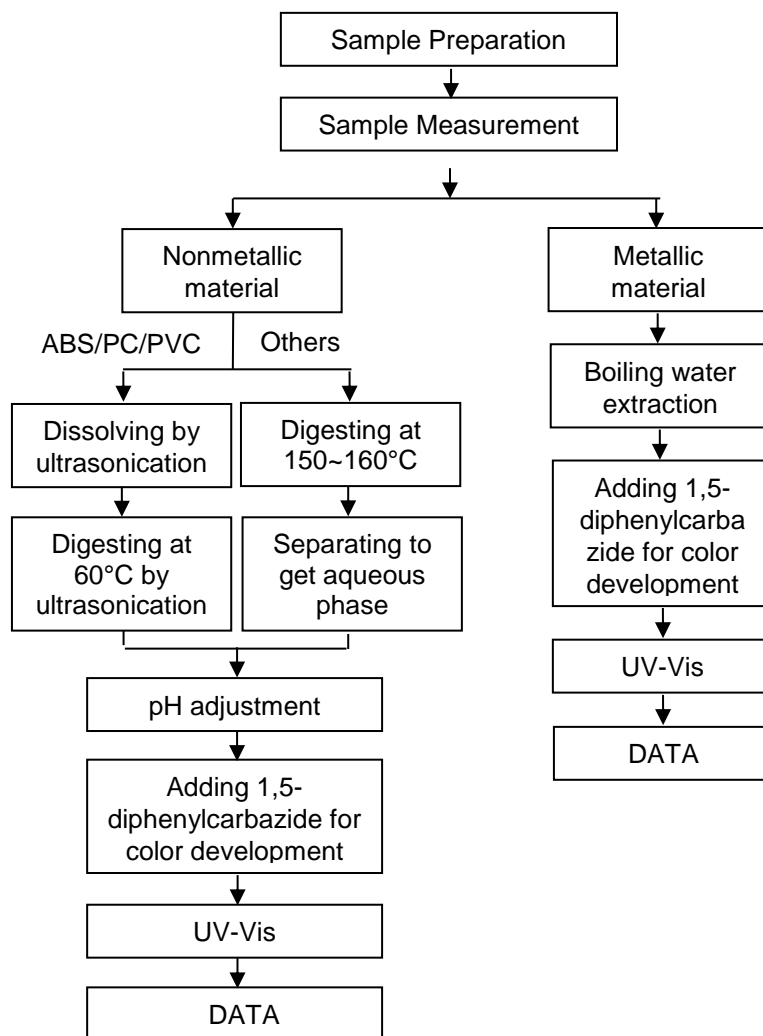
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### ATTACHMENTS

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

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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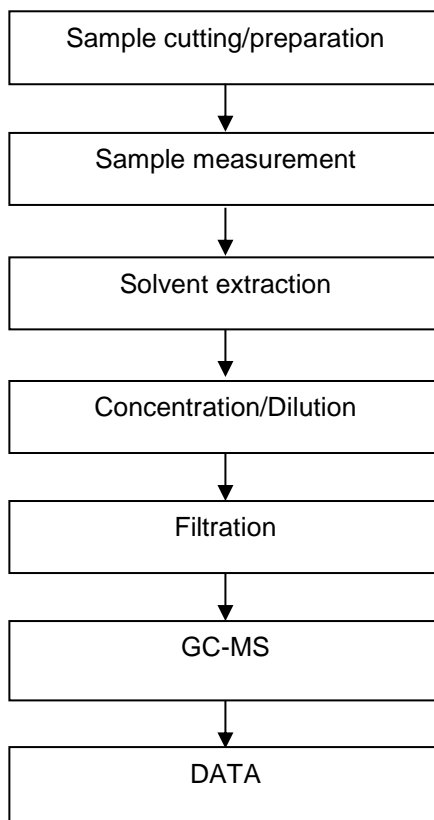
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### ATTACHMENTS

#### PBB/PBDE/Phthalates Testing Flow Chart

Name of the person who made testing: Yanhong liu

Name of the person in charge of testing: xiaoqiang zhang



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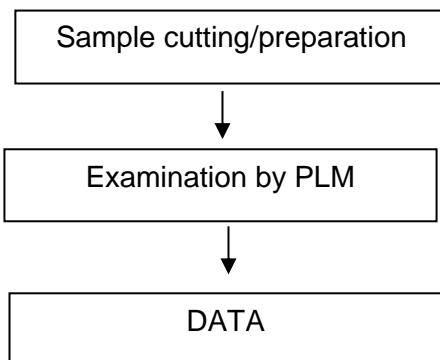
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## ATTACHMENTS

### Asbestos Testing Flow Chart

Name of the person who made testing: Mina mi

Name of the person in charge of testing: Zhen Zhang



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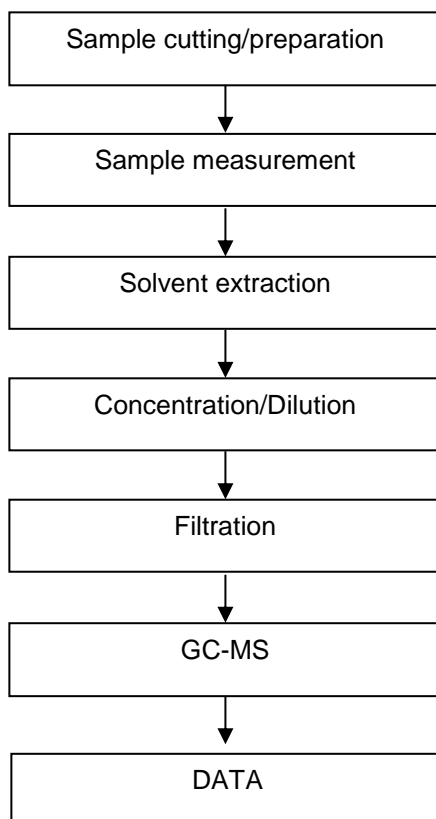
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### Benzotriazole Testing Flow Chart

Name of the person who made testing: Yuki liu

Name of the person in charge of testing: Liyas Wang



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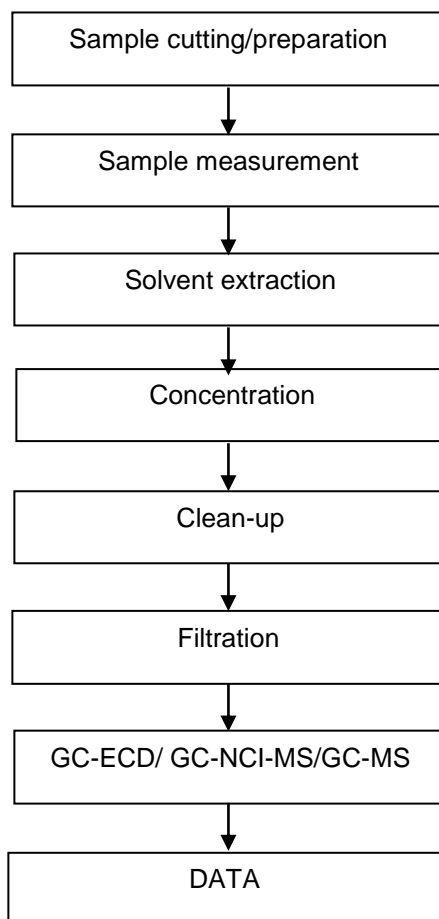


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### Chlorinated Paraffin Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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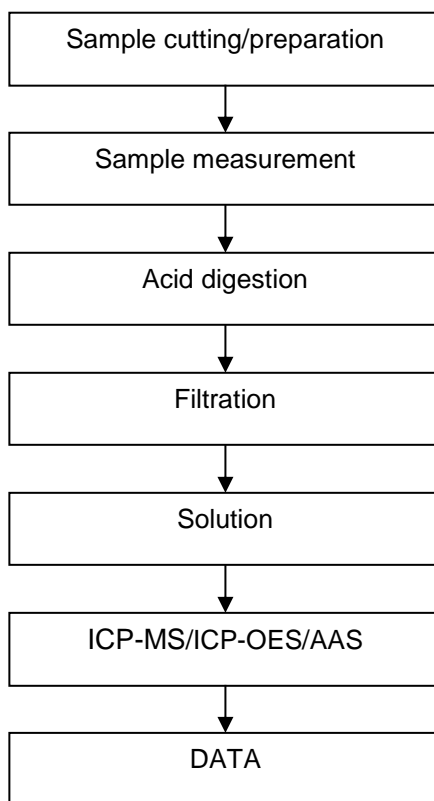
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#### Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: Carey Shan



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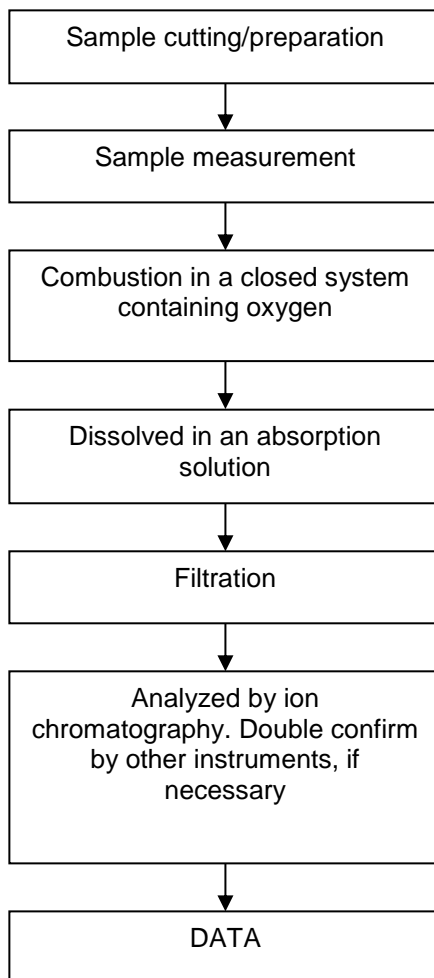
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#### Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Gordon Mu



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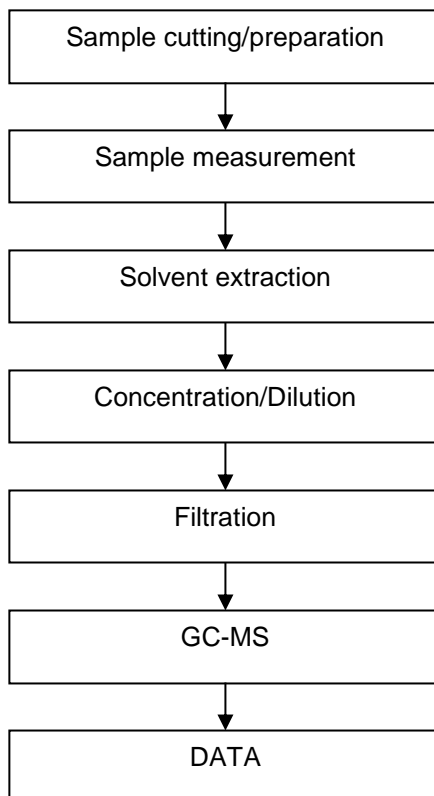
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#### HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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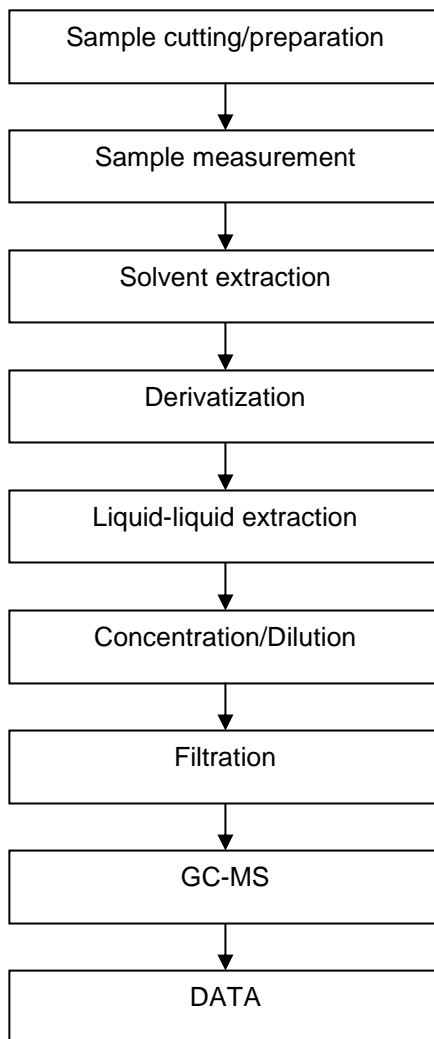
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#### Organotin Testing Flow Chart

Name of the person who made testing: Zhi Shi

Name of the person in charge of testing: Liyas Wang



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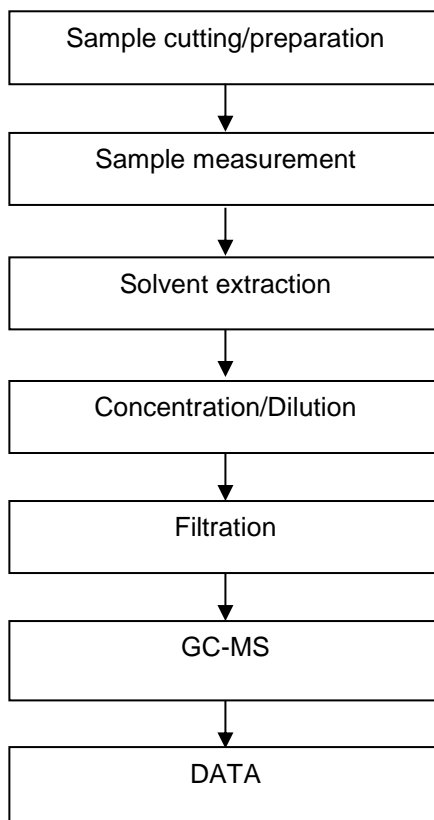
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### ATTACHMENTS

#### Phthalates Testing Flow Chart

Name of the person who made testing: Sherry Shi

Name of the person in charge of testing: Carol Cui



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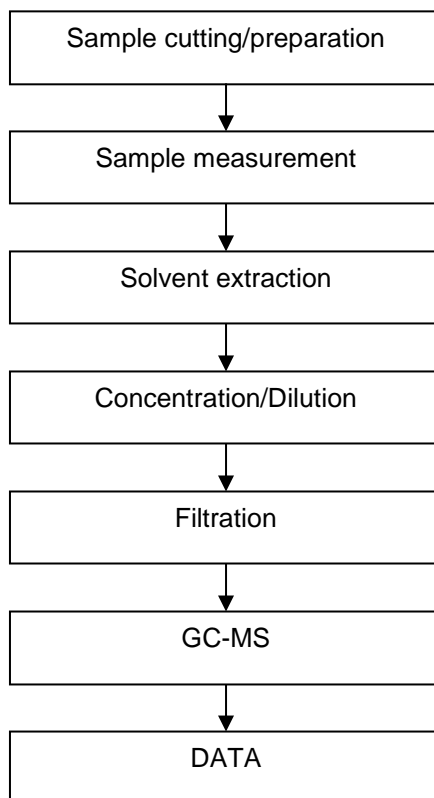
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### PCB Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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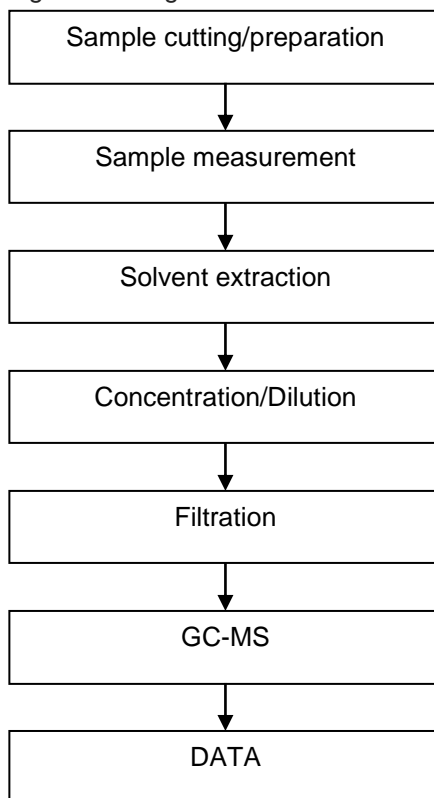
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### PCN Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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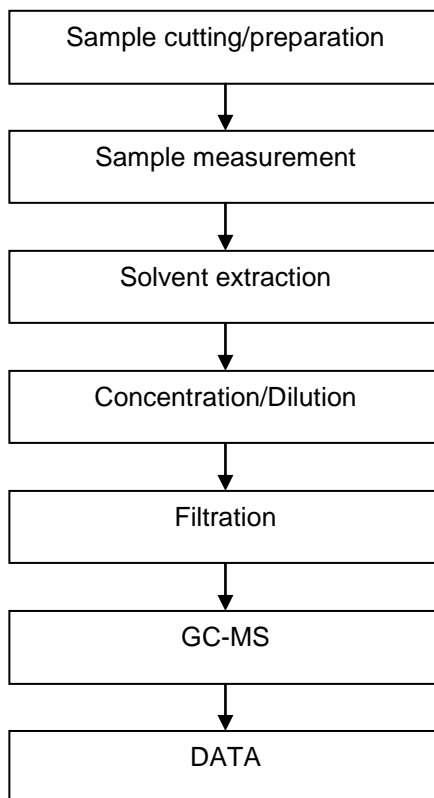
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### PCT Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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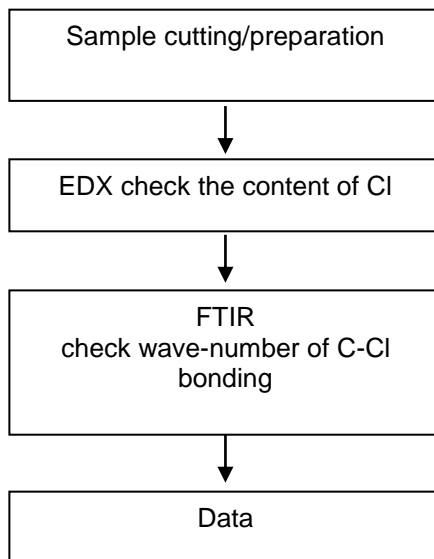
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#### PVC Testing Flow Chart

Name of the person who made testing: Mina Mi

Name of the person in charge of testing: Janice Zhang



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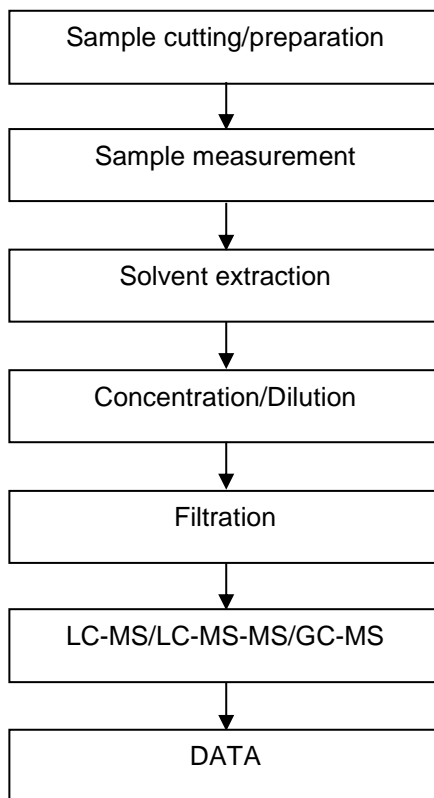
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### PFASs/ PFOS/PFOA Testing Flow Chart

Name of the person who made testing: Ance Chen

Name of the person in charge of testing: Liyas Wang



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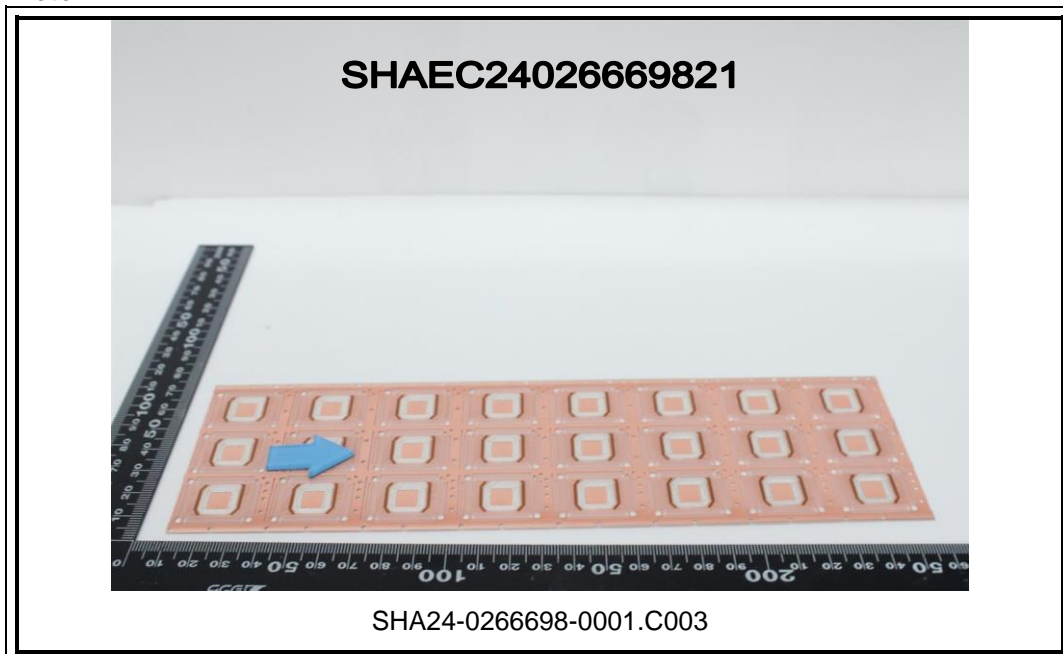
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