

# Test Report

No.: SHAEC24003264701\_1

Date: Mar 06, 2024

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Client Name: Shanghai Tinking Material Technology Co.,Ltd

Client Address: 1 Building, No.2328 Chunshen road, Minhang District, Shanghai, China.

Sample Name: BGA TIN BALL

Model No.: BGA TIN BALL

Client Ref. Information: SAC105/SAC1205/SAC305/SAC305N/SAC3575/SAC405/SAC302/SAC266/SAC107/SAC145/SACN105/SC07/SAC255/SACN1205/SACN125/SAC125/SAC2075/SACN2075

Main Substance: Sn/Ag/Cu

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

**THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC24003264701, DATE: Mar 04, 2024.**

SGS Job No.: SHP24-004981

Sample Receiving Date: Feb 27, 2024

Testing Period: Feb 27, 2024 ~ Mar 04, 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
Alkanes C10-C13, chloro (short chain-chlorinated paraffins) (SCCPs)	See Results
Asbestos	See Results
Benzotriazole UV Absorbent	See Results
Element(s)	See Results

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

Jenny Lan  
Approved Signatory

scan to see the report



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Test Requirement	Conclusion
Halogen	See Results
Medium Chain Chlorinated Paraffin(C14-C17)(MCCP)	See Results
Ozone Depleting Substances(ODS)	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
Hexabromocyclododecane (HBCDD)	See Results
Organic-tin compounds	See Results
Perfluorooctane sulfonates (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts	See Results
Azo Dyes	See Results

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0032647-0001.C001	Silvery metal ball

### 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 62321-7-1:2015, 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
Lead (Pb)	1000	mg/kg	2	35
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



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Test Item(s)	Limit	Unit(s)	MDL	A1
Polybromobiphenyl (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
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	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
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 µg/cm<sup>2</sup> and 0.13 µg/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.

**Alkanes C10-C13, chloro (short chain-chlorinated paraffins) (SCCPs)**



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Test Method: With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Short Chain Chlorinated Paraffin(C10-C13)(SCCP)	85535-84-8	mg/kg	50	ND

## Asbestos

Test Method: With reference to NIOSH 9000:2015 and ISO 22262-1:2012, analysis was performed by XRD/PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
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	A1
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

## Element(s)

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

Test Item(s)	Unit(s)	MDL	A1
Antimony(Sb)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND
Beryllium Oxide(BeO)◆	mg/kg	15	ND
Bismuth(Bi)	mg/kg	10	ND
Arsenic(As)	mg/kg	10	ND

### Notes:

(1) ◆Calculated concentration of BeO is based on the identified Be.



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## 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	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

## Medium Chain Chlorinated Paraffin(C14-C17)(MCCP)

Test Method: With reference to ISO 18219-2:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Medium Chain Chlorinated Paraffin(C14-C17)(MCCP)	85535-85-9	mg/kg	50	ND

## Ozone Depleting Substances(ODS)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	354-58-5 /76-13-1	µg/g	0.1	ND
CFC-114	374-07-2 /76-14-2	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-112	76-11-9	µg/g	0.1	ND
CFC-113a	354-58-5	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-215	1599-41-3	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
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



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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
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	75-88-7	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-141	-	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-142	-	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-151	-	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	-	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-261	7799-56-6	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
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
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



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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
C <sub>3</sub> HFBr <sub>6</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>4</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>5</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <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> 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
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
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
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
1,3-dichloropropane	142-28-9	µg/g	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
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
C <sub>3</sub> F <sub>6</sub> Cl <sub>2</sub>	1652-80-8	µg/g	0.1	ND
SF <sub>6</sub>	2551-62-4	µg/g	0.1	ND
HFC-161	353-36-6	µg/g	0.1	ND
HCFC-224	422-54-8	µg/g	0.1	ND
Tetrachloroethylene	127-18-4	µg/g	0.1	ND
HFC-152	-	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	A1
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
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diphenyl Phthalate(DPhP)	84-62-8	mg/kg	50	ND
Dimethyl Phthalate(DMP)	131-11-3	mg/kg	50	ND
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	ND
Dipropyl Phthalate(DPrP)	131-16-8	mg/kg	50	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	mg/kg	50	ND
Dibenzyl Phthalate(DBzP)	523-31-9	mg/kg	50	ND
Dinonyl Phthalate(DNP)	84-76-4	mg/kg	50	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	mg/kg	50	ND



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**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	A1
2,4,4'-Trichlorobiphenyl (PCB28)	7012-37-5	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
Sum of PCBs	-	mg/kg	-	ND

**Polychlorinated Naphthalenes (PCNs)**

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
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	A1
Aroclor 5432	63496-31-1	mg/kg	0.5	ND
Aroclor 5442	12642-23-8	mg/kg	0.5	ND
Aroclor 5460	11126-42-4	mg/kg	0.5	ND
Sum of PCT	-	mg/kg	-	ND

**Polyvinyl chloride (PVC)**

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
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 sulfonates (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
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
<b>PFOSA, its salts</b>	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
<b>PFOA, its salts</b>	
Perfluorooctanoic acid (PFOA)	335-67-1
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

**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	A1
<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



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
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'-Dimethylbenzidine	119-93-7	mg/kg	5	ND
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-Toluyldiamine, 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.

This report updates Client Ref. Information.

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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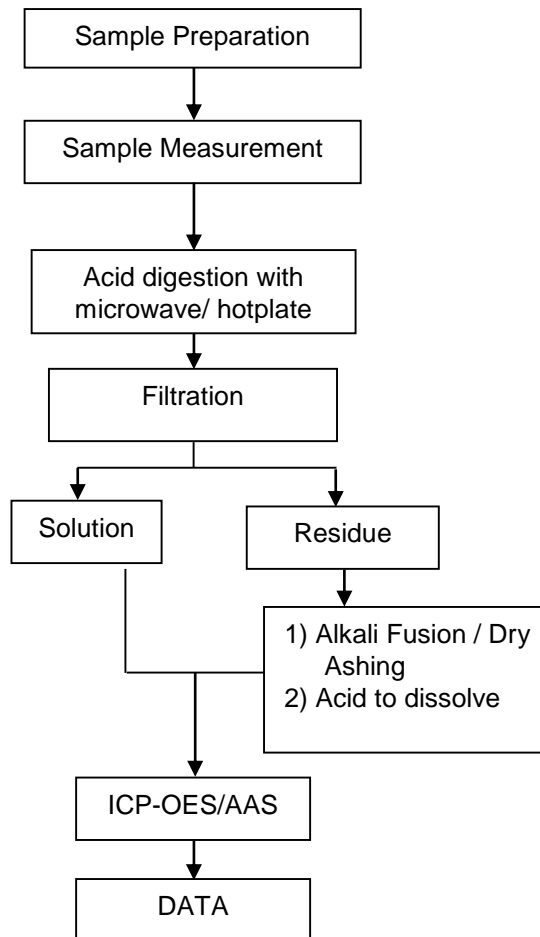
**ATTACHMENTS**

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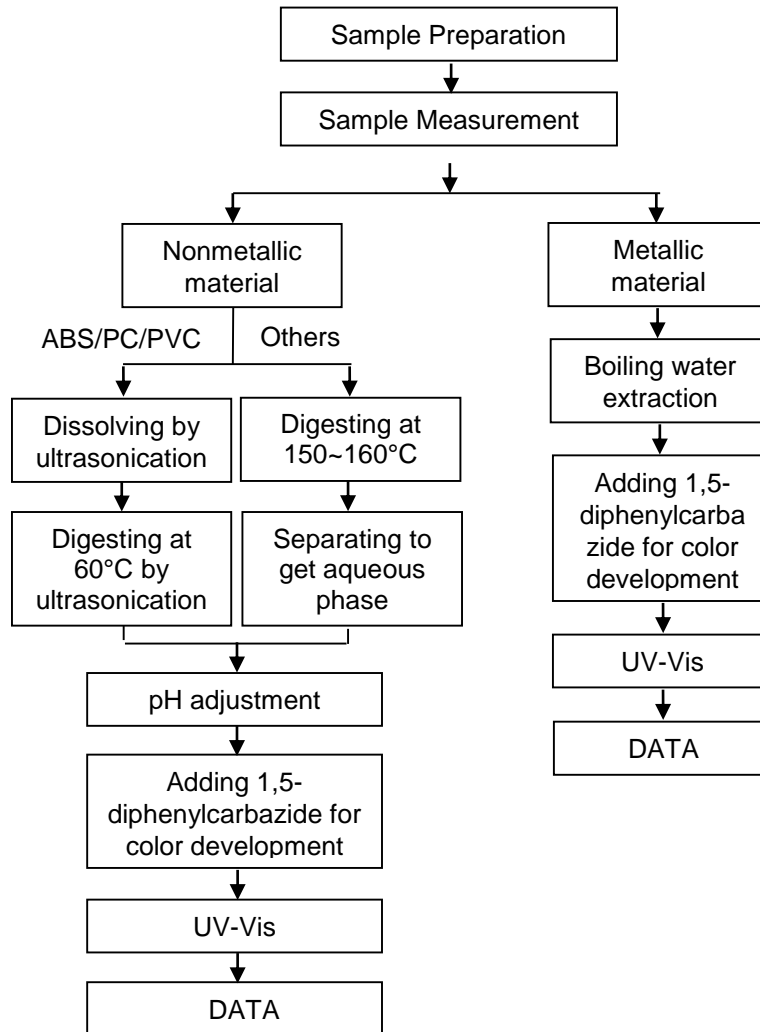
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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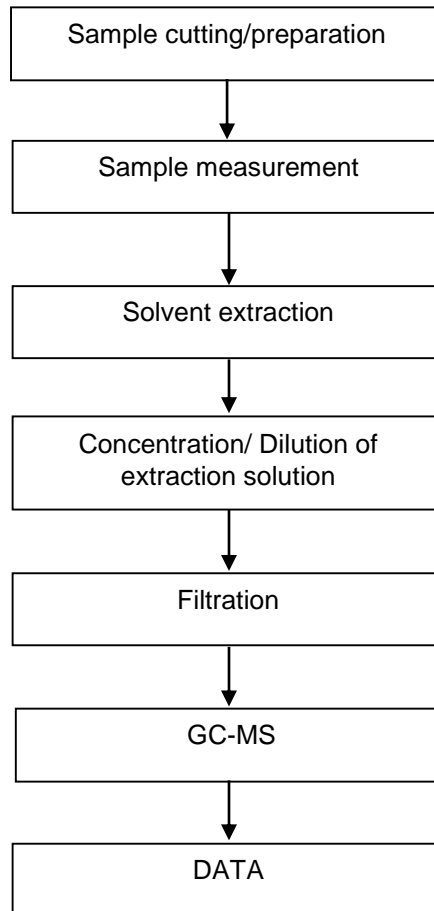
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#### PBB/PBDE Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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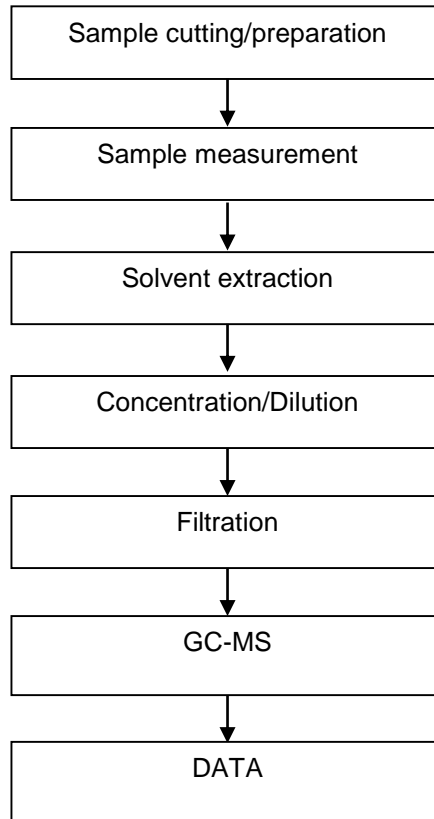
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#### Phthalates Testing Flow Chart

Name of the person who made testing: Sherry Shi

Name of the person in charge of testing: Carol Cui



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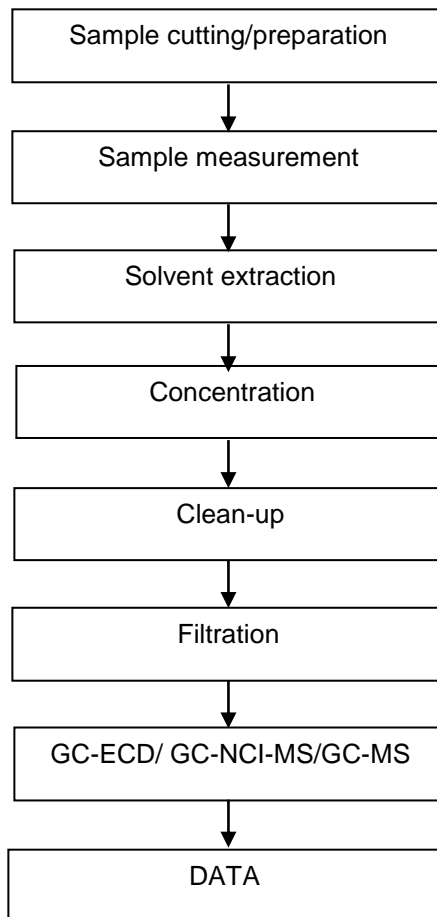


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### Chlorinated Paraffin Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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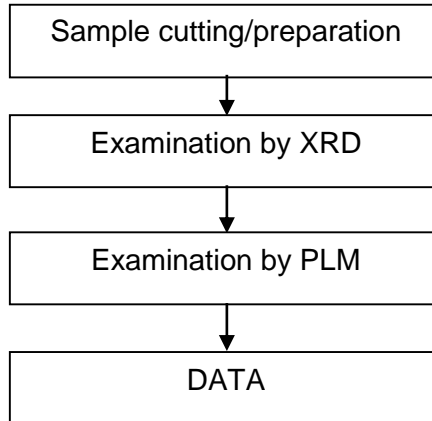
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### Asbestos Testing Flow Chart

Name of the person who made testing: Helen Shao

Name of the person in charge of testing: Zhen Zhang



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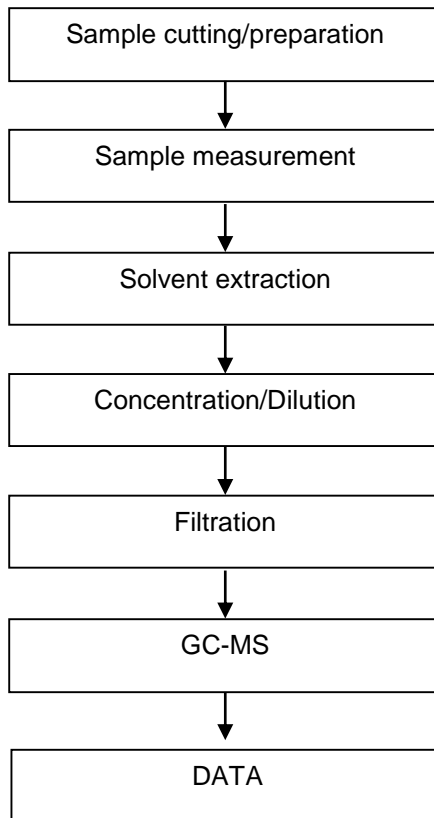
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### Benzotriazole Testing Flow Chart

Name of the person who made testing: Yuki liu

Name of the person in charge of testing: Liyas Wang



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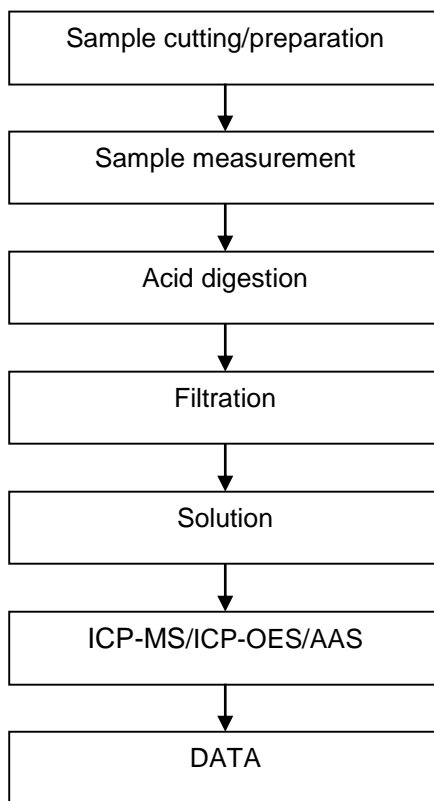
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**Elements Testing Flow Chart**

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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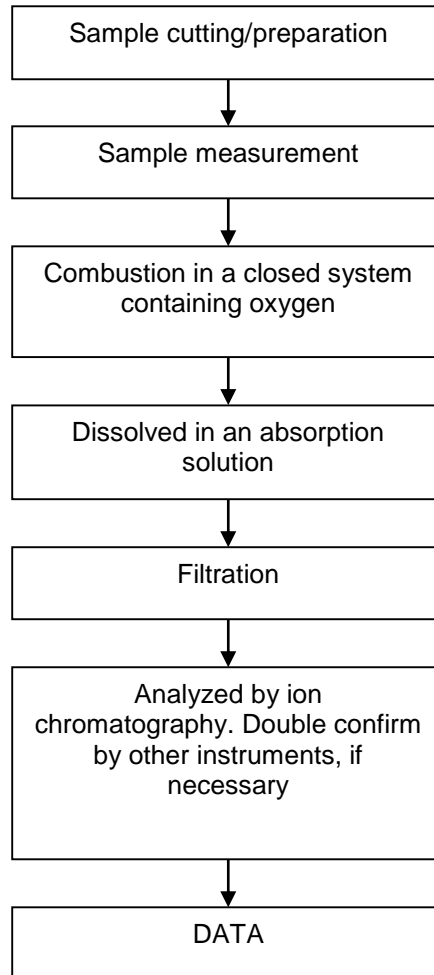
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**Halogen Testing Flow Chart**

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Gordon Mu



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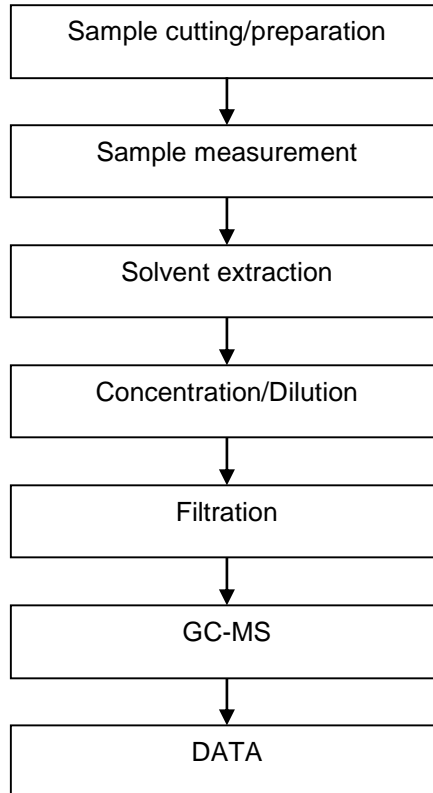
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### PCB Testing Flow Chart

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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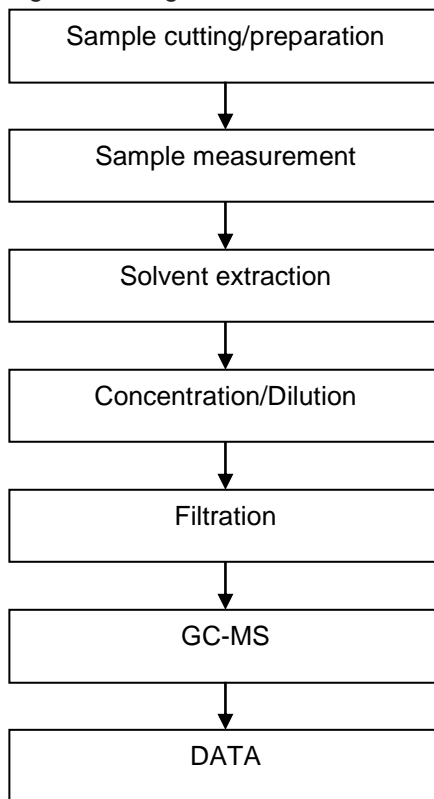
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**PCN Testing Flow Chart**

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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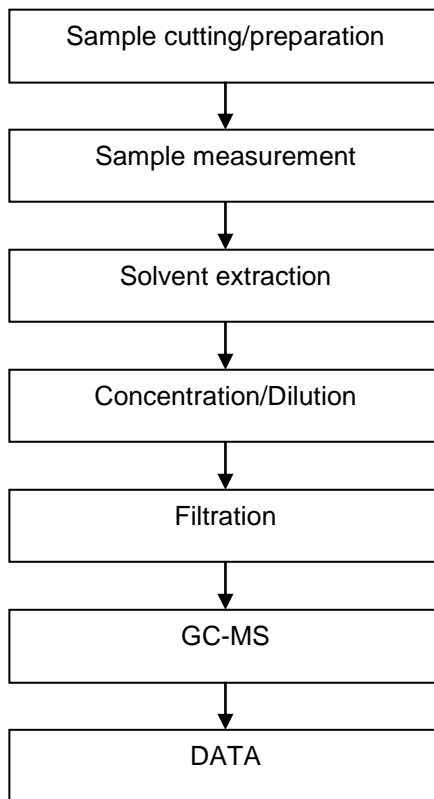
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**PCT Testing Flow Chart**

Name of the person who made testing: Stella Jiang

Name of the person in charge of testing: Mia Wang



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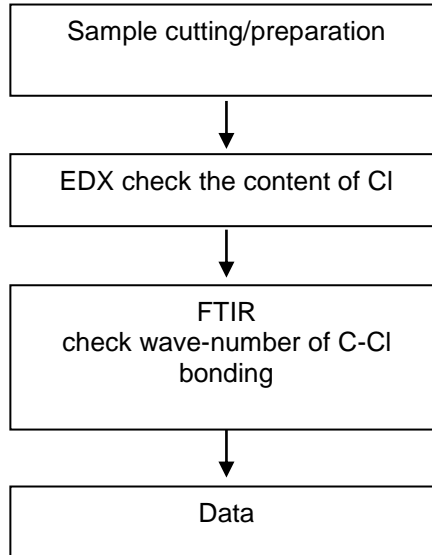


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### PVC Testing Flow Chart

Name of the person who made testing: Mina Mi

Name of the person in charge of testing: Janice Zhang



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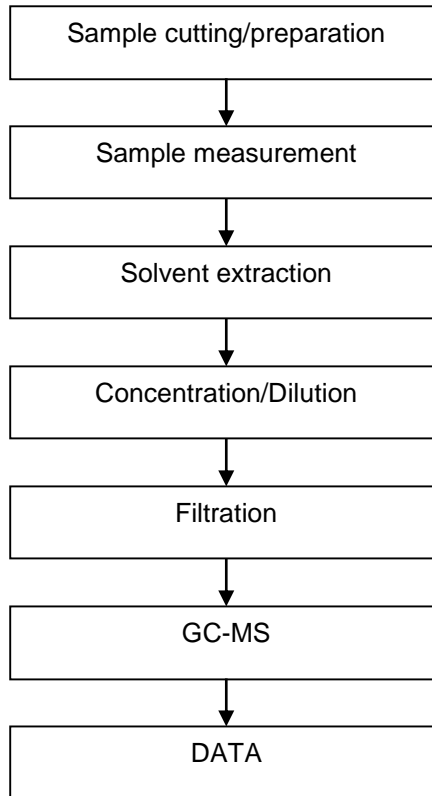
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#### HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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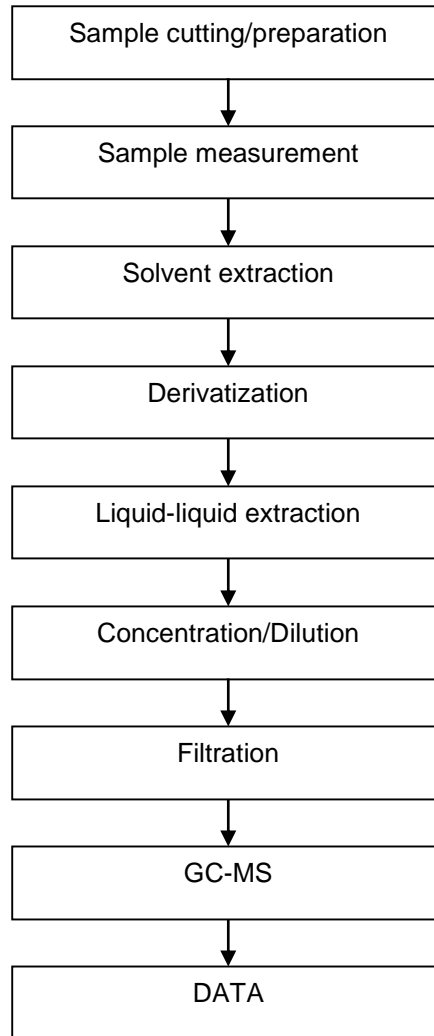
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#### Organotin Testing Flow Chart

Name of the person who made testing: Zhi Shi

Name of the person in charge of testing: Liyas Wang



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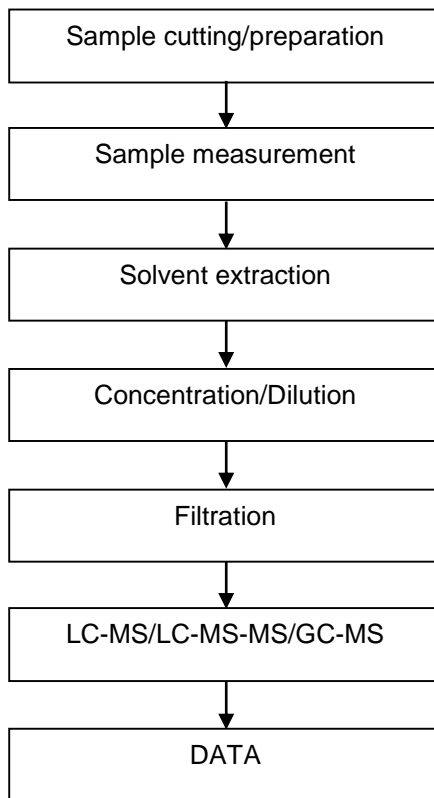
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### PFASs/ PFOS/PFOA Testing Flow Chart

Name of the person who made testing: Ance Chen

Name of the person in charge of testing: Liyas Wang



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