The following sample(s) was/were submitted and identified on behalf of the clients as : PET substrate pressure sensitive adhesive tapes

SGS Job No. :	CP13-008713 - GZ
Model No. :	6025DT
Client Ref. Info. :	SEE REMARK
Date of Sample Received :	28 Dec 2012
Date of Sample Further Received:	06 Mar 2013
Testing Period :	28 Dec 2012 – 09 Jan 2013
Further Testing Period:	06 Mar 2013 – 12 Mar 2013

Test Requested : Please refer to next page(s).

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Zmguan

Zm guan
Approved Signatory

Test Requested :

A: As requested by client, SVHC screening is performed according to:
(i) Eighty four (84) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 18, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Fifty four (54) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Dec 19, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH.

L: As specified by client, selected parts of the submitted sample(s) for compliance with Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):-
1) Lead in accessible substrate materials

B~K: Selected test (s) as requested by client.

Summary :

A: According to the specified scope and analytical techniques, concentrations of tested SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS
L: CPSIA section 101(a)(2) - Lead in accessible substrate materials（including Children's Metal Jewelry）	PASS

Conclusion:

B: Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) **comply with** the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-026936.001	Transparent double-side adhesive tape

A: SVHC

Remark :

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
http://echa.europa.eu/web/guest/candidate-list-table
These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):
In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

(3) Concerning material(s):
Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or

- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, GC-MS, UV-VIS and Colorimetric Method/HPLC-DAD/MS.

Test Result: (Substances in the Candidate List of SVHC)

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.050
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.050
1,2-dichloroethane	107-06-2	203-458-1	ND	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.050
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.050
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	ND	0.050
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.050
2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.050
2-Ethoxyethanol	110-80-5	203-804-1	ND	0.050
2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.050
2-Methoxyethanol	109-86-4	203-713-7	ND	0.050
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	219-943-6	ND	0.050
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	208-953-6	ND	0.050
4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.050
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	209-218-2	ND	0.050
4,4'-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	ND	0.050
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	ND	0.050

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Member of the SGS Group (SGS SA)

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.050
Acrylamide	79-06-1	201-173-7	ND	0.050
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.050
Aluminosilicate Refractory Ceramic Fibres*▲	650-017-00-8 (Index no.)	-	ND	0.005
Ammonium dichromate*	7789-09-5	232-143-1	ND	0.005
Anthracene	120-12-7	204-371-1	ND	0.050
Anthracene oil*	90640-80-5	292-602-7	ND	0.050
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.050
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.050
Anthracene oil, anthracene paste, distn. Lights*	91995-17-4	295-278-5	ND	0.050
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.050
Arsenic acid*	7778-39-4	231-901-9	ND	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.050
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.050
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.050
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.050
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.050
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	ND	0.005
Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	ND	0.005
Chromium trioxide*	1333-82-0	215-607-8	ND	0.005

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.005
Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.005
Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.005
Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.005
Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.005
Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.050
Dichromium tris(chromate)*	24613-89-6	246-356-2	ND	0.005
Diisobutyl phthalate	84-69-5	201-553-2	ND	0.050
Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	ND	0.050
Formamide	75-12-7	200-842-0	ND	0.050
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) Δ	25637-99-4 and 3194- 55-6	247-148-4 and 221-695-9	ND	0.050
Hydrazine	7803-57-8 302-01-2	206-114-9	ND	0.050
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
Lead chromate*	7758-97-6	231-846-0	ND	0.005
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Lead diazide, Lead azide*	13424-46-9	236-542-1	ND	0.005
Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
Lead styphnate*	15245-44-0	239-290-0	ND	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
N,N-dimethylacetamide	127-19-5	204-826-4	ND	0.050
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.050
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
Phenolphthalein	77-09-8	201-004-7	ND	0.050
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.050
Potassium chromate*	7789-00-6	232-140-5	ND	0.005
Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	ND	0.005
Sodium chromate*	7775-11-3	231-889-5	ND	0.005
Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	ND	0.005
Strontium chromate*	7789-06-2	232-142-6	ND	0.005
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.050
Trichloroethylene	79-01-6	201-167-4	ND	0.050
Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres*▲	650-017-00-8 (Index no.)	-	ND	0.005
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	229-851-8	ND	0.050
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	ND	0.050

Test Result: (Substances in the Candidate List of SVHC)

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	ND	0.005
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.050
1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.050
1-Bromopropane	106-94-5	203-445-0	ND	0.050
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	ND	0.050
4,4'-Methylenedi-*o*-toluidine	838-88-0	212-658-8	ND	0.050
4,4'-Oxydianiline and its salts	101-80-4	202-977-0	ND	0.050
4-Aminoazobenzene	60-09-3	200-453-6	ND	0.050
4-Methyl-*m*-phenylenediamine	95-80-7	202-453-1	ND	0.050
4-Nonylphenol, branched and linear	-	-	ND	0.050
6-Methoxy-*m*-toluidine	120-71-8	204-419-1	ND	0.050
Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.050
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.050
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.050
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	ND	0.050
Diethyl sulphate	64-67-5	200-589-6	ND	0.050
Diisopentylphthalate	605-50-5	210-088-4	ND	0.050
Dimethyl sulphate	77-78-1	201-058-1	ND	0.050
Dinoseb	88-85-7	201-861-7	ND	0.050
Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.005
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.005
Furan	110-00-9	203-727-3	ND	0.050
Henicosafluoroundecanoic acid	2058-94-8	218-165-4	ND	0.050
Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	ND	0.050
Cyclohexane-1,2-dicarboxylic anhydride, *cis*-cyclohexane-1,2-dicarboxylic anhydride, *trans*-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	☆	ND	0.050
Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.005
Lead cyanamidate*	20837-86-9	244-073-9	ND	0.005
Lead dinitrate*	10099-74-8	233-245-9	ND	0.005
Lead monoxide*	1317-36-8	215-267-0	ND	0.005

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Lead oxide sulfate*	12036-76-9	234-853-7	ND	0.005
Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.005
Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
Methoxyacetic acid	625-45-6	210-894-6	ND	0.050
N,N-dimethylformamide	68-12-2	200-679-5	ND	0.050
N-Methylacetamide	79-16-3	201-182-6	ND	0.050
N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.050
o-Aminoazotoluene	97-56-3	202-591-2	ND	0.050
o-Toluidine	95-53-4	202-429-0	ND	0.050
Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	ND	0.050
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.005
Methyloxirane (Propylene oxide)	75-56-9	200-879-2	ND	0.050
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.005
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.005
Tetraethyllead*	78-00-2	201-075-4	ND	0.005
Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.005
Tricosafluorododecanoic acid	307-55-1	206-203-2	ND	0.050

Substance Name	CAS No.	EC No.	001 Concentration (%)	RL(%)
Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.005
Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.005

Notes:

(1) RL = Reporting Limit. All RL are based on homogenous material
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(2) △ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
☆ CAS No. of Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.

(3)* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

Calculated concentration of diboron trioxide, boric acid, disodium tetraborate anhydrous, tetraboron disodium heptaoxide hydrate and Lead bis(tetrafluoroborate) are based on the water extractive boron and sodium by ICP-OES.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium (VI), silicon, aluminum, zirconium, boron, potassium, strontium, zinc, calcium, antimony, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

(4)§ The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

(5)▲ On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.

Remarks:

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

B: RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008
(1) Determination of Cadmium by ICP-OES.
(2) Determination of Lead by ICP-OES.
(3) Determination of Mercury by ICP-OES.
(4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5) Determination of PBBs and PBDEs by GC-MS.

Test Item(s):	Limit	Unit	MDL	*001*
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	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND

Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

C: Hexabromocyclododecane (HBCDD)

Test method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s):	Unit	MDL	*001*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Note:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

D: Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	*001*
Dibutyl Phthalate (DBP) Content	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP) Content	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP) Content	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP) Content	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP) Content	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP) Content	%(w/w)	0.010	ND
Di-n-hexyl phthalate(DnHP) Content	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP) Content	%(w/w)	0.003	ND
Diethyl Phthalate (DEP) Content	%(w/w)	0.003	ND
Dipropyl Phthalate (DPrP) Content	%(w/w)	0.003	ND
Diiso butyl Phthalate (DIBP) Content	%(w/w)	0.003	ND
Dipentyl Phthalate (DPP) Content	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP) Content	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP) Content	%(w/w)	0.010	ND

Dinonyl Phthalate (DNP) Content	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP) Content	%(w/w)	0.003	ND
Dibenzyl Phthalate(DBzP) Content	%(w/w)	0.003	ND

Notes:

(1) DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
Please refer to Regulation (EC) No 552/2009 to get more detail information
DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
Please refer to Regulation (EC) No 552/2009 to get more detail information

E: Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method: With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s):	Unit	MDL	*001*
Naphthalene (NAP)	mg/kg	0.2	ND
Acenaphthylene (ANY)	mg/kg	0.2	ND
Acenaphthene (ANA)	mg/kg	0.2	ND
Fluorene (FLU)	mg/kg	0.2	ND
Phenanthrene (PHE)	mg/kg	0.2	ND
Anthracene (ANT)	mg/kg	0.2	ND
Fluoranthene (FLT)	mg/kg	0.2	ND
Pyrene (PYR)	mg/kg	0.2	ND
Benzo(a)anthracene (BaA)	mg/kg	0.2	ND
Chrysene (CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene (BbF) + Benzo(j)fluoranthene (BjF)	mg/kg	0.4	ND
Benzo(k)fluoranthene (BkF)	mg/kg	0.2	ND
Benzo(a)pyrene (BaP)	mg/kg	0.2	ND
Benzo(e)pyrene (BeP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene (IPY)	mg/kg	0.2	ND
Dibenzo(a,h)anthracene (DBA)	mg/kg	0.2	ND
Benzo(g,h,i)perylene (BPE)	mg/kg	0.2	ND
Sum of 18 PAH	mg/kg	-	ND

ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact)	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 18 PAH(US EPA) (mg/kg)*	<MDL (<0.2)**	10	200

Notes:

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

F: Dimethyl fumarate(DMF)

Test Method: SGS Inhouse method (GZTC CHEM-TOP-095), analysis was performed by GC-MS.

Test Item(s):	Recommended Max. Limit	Unit	MDL	*001*
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND
Conclusion	-	-	-	PASS

Note:

(1) The maximum permissible limit is quoted from the document Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Commission Decision 2012/48/EU).

G: PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

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

Test Item(s)	Unit	MDL	*001*
Perfluorooctanoic acid (PFOA)	mg/kg	10	ND
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	10	ND

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:
(1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
(2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m^2 of the coated material.

H: TBBP-A

Test Method: With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS.

Test Item(s):	Unit	MDL	*001*
TBBP-A	mg/kg	10	ND

I: Halogen

Test Method: With reference to EN 14582:2007, analysis was performed by IC.

Test Item(s):	Unit	MDL	*001*
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

J: SCCP (Short chained chlorinated paraffins)

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

Test Item(s)	Unit	MDL	*001*
Short Chained Chlorinated Paraffins (C10-C13)	mg/kg	50	ND

K: Formaldehyde

Test Method: With reference to ISO 17226-1:2008, analysis was performed by HPLC-DAD.

Test Item(s):	Unit	MDL	*001*
Formaldehyde	mg/kg	20.0	ND

L: CPSIA section 101(a)(2) - Lead in accessible substrate materials（including Children's Metal Jewelry）

Test Method (non-metallic materials): CPSC Test Method: CPSC-CH-E1002-08.1 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test item	Permissible Limit**	Unit	MDL	*001*
Lead (Pb)	0.01	%	0.002	ND
Comment	---			**Pass**

** Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

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Member of the SGS Group (SGS SA)

REMARK:

DS31, DS31-6025(H/A), DS31-6025B, DS31-6050(H), DS31-6075(H), DS31-6125(H), DS31-6100(H/A), DS31-6175(H), DS31-6188(H), DS31-7025(H/N/PA/W/WY), DS31-7050(H/L/P/PA), DS31-7075(H/PP), DS31-7100(H), DS31-7125(H), DS31-7175(H), DS31-7188(H), 6025DT(ST), 6050DT(ST), 6075DT(ST), 6100DT(ST), 6125DT(ST), 6175DT(ST), 6188DT(ST), 7025DT(ST), 7050DT(ST), 7075DT(ST), 7100DT(ST), 7125DT(ST), 7175DT(ST), 7188DT(ST), 7038DT, 7048ST, DS31-5012, DS31-6012(A), DS31-7012, DS31-3005, CM6025DT, DS31-6038, DS31-7038L, SF25-6012, SF25-6025, SF25-6038, SF25-6050, SF25-6075, SF25-6100, SF50-6012, SF50-6025, SF50-6038, SF50-6050, SF50-6075, SF50-6100

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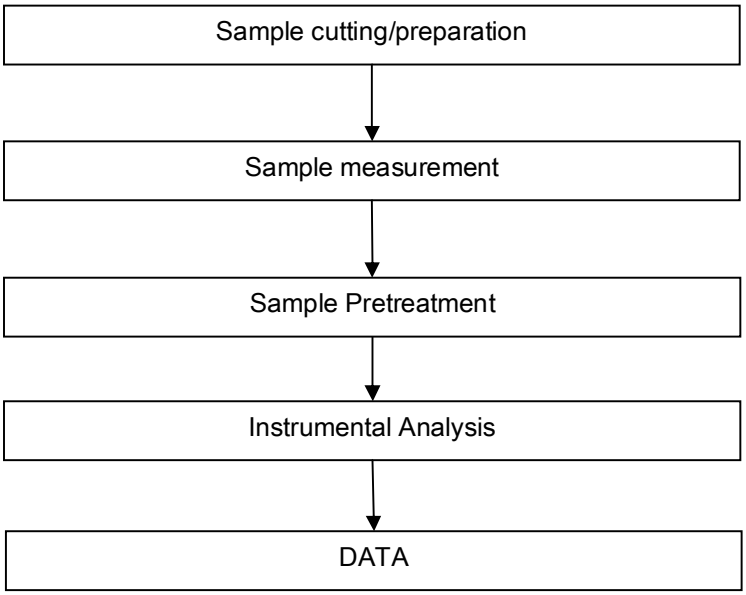
ATTACHMENTS

SVHC Testing Flow Chart

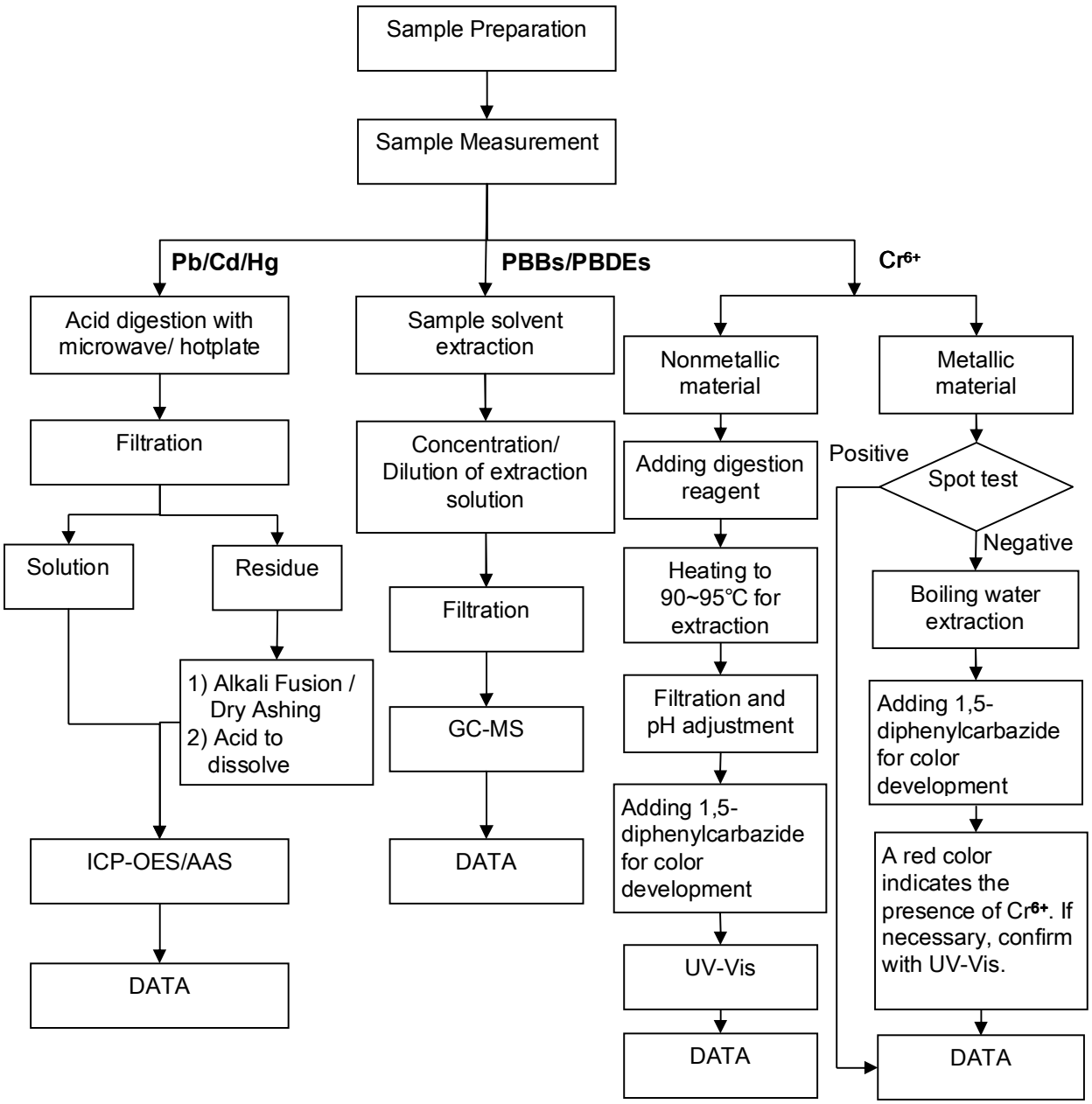
1) Name of the person who made testing: Michael Tso / Liu Qiong
2) Name of the person in charge of testing: Adams Yu / Yolanda Wei



ATTACHMENTS

RoHS Testing Flow Chart

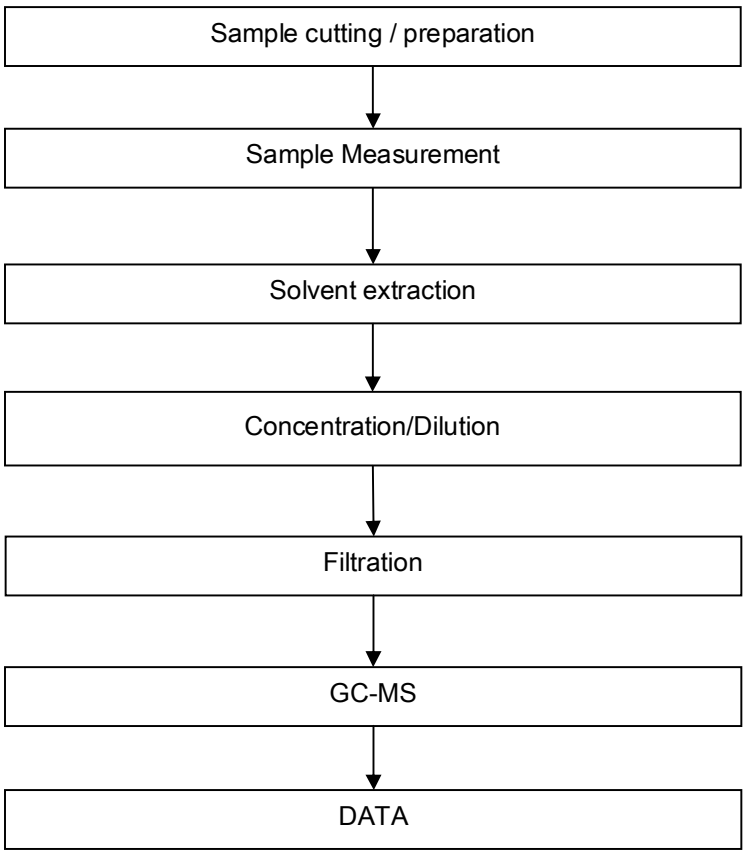
1) Name of the person who made testing: Michael Tso / Cutey Yu
2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr^{6+} and PBBs/PBDEs test method excluded).



ATTACHMENTS

HBCDD Testing Flow Chart

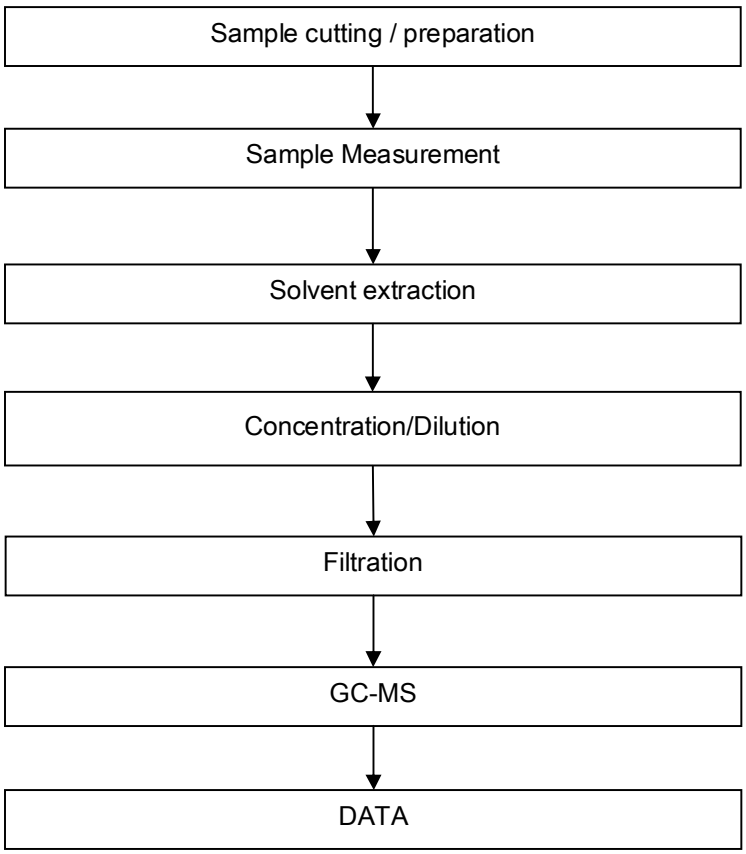
1) Name of the person who made testing: Cutey Yu
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

Phthalates Testing Flow Chart

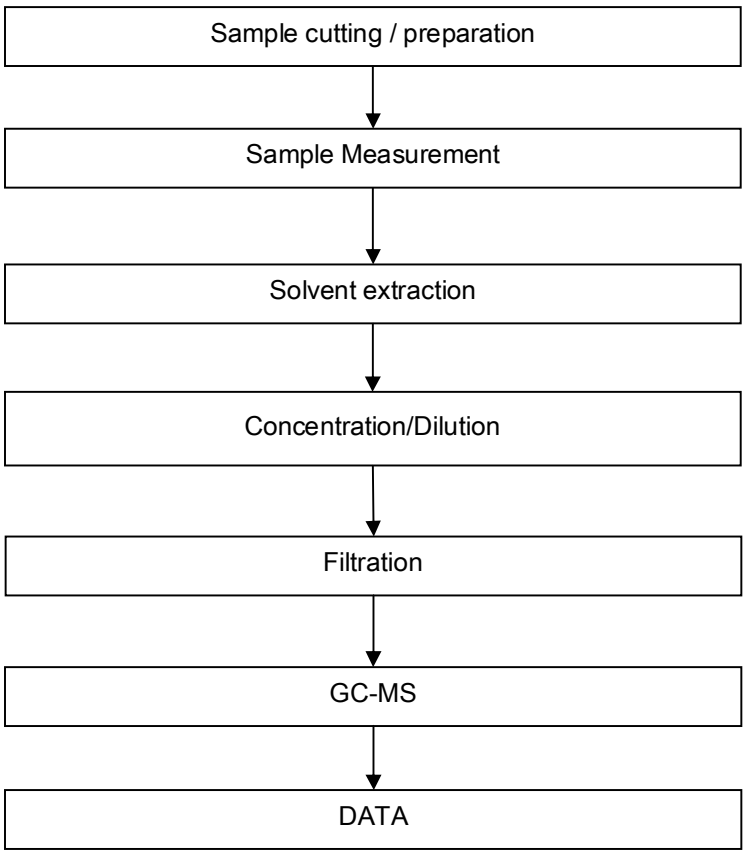
1) Name of the person who made testing: Liu Qiong
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

PAHs Testing Flow Chart

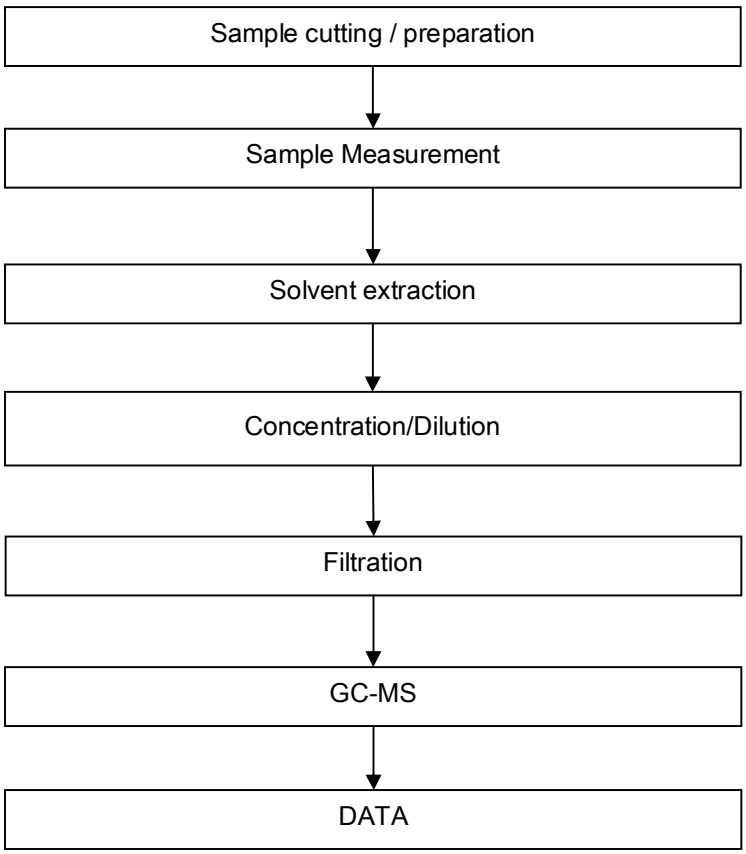
1) Name of the person who made testing: Cutey Yu
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

Dimethyl Fumarate Testing Flow Chart

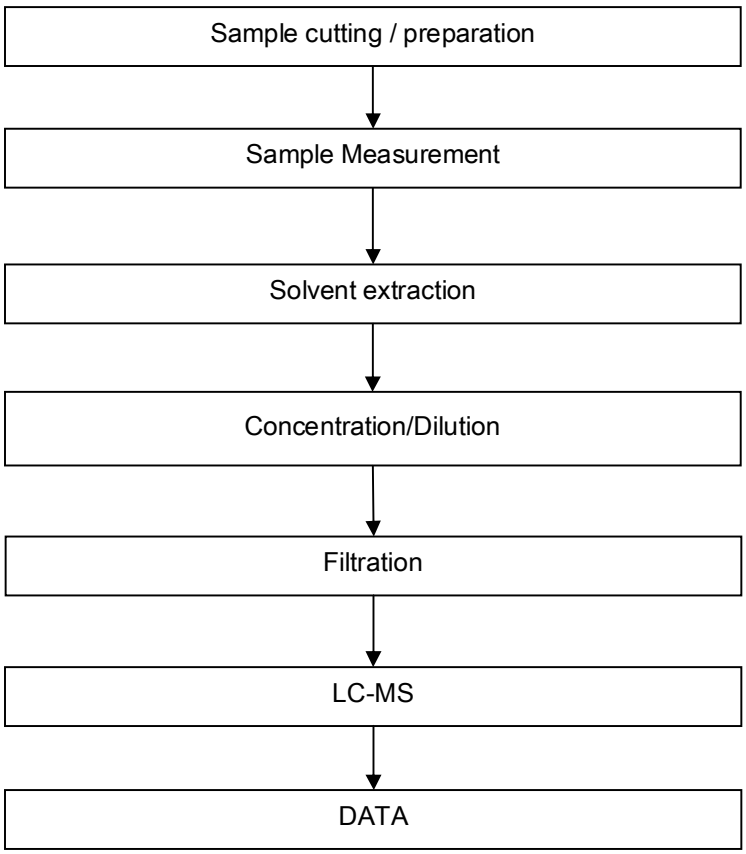
1) Name of the person who made testing: Liu Qiong
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

PFOA / PFOS Testing Flow Chart

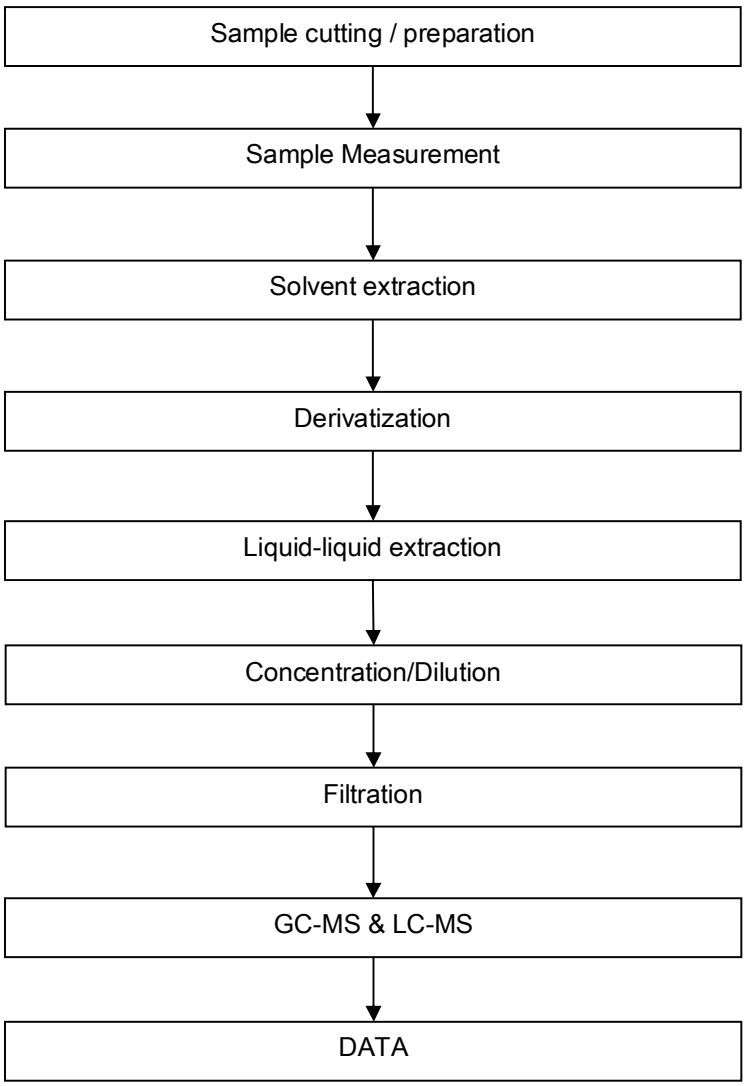
1) Name of the person who made testing: Tina Zhao
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

TBBP-A Testing Flow Chart

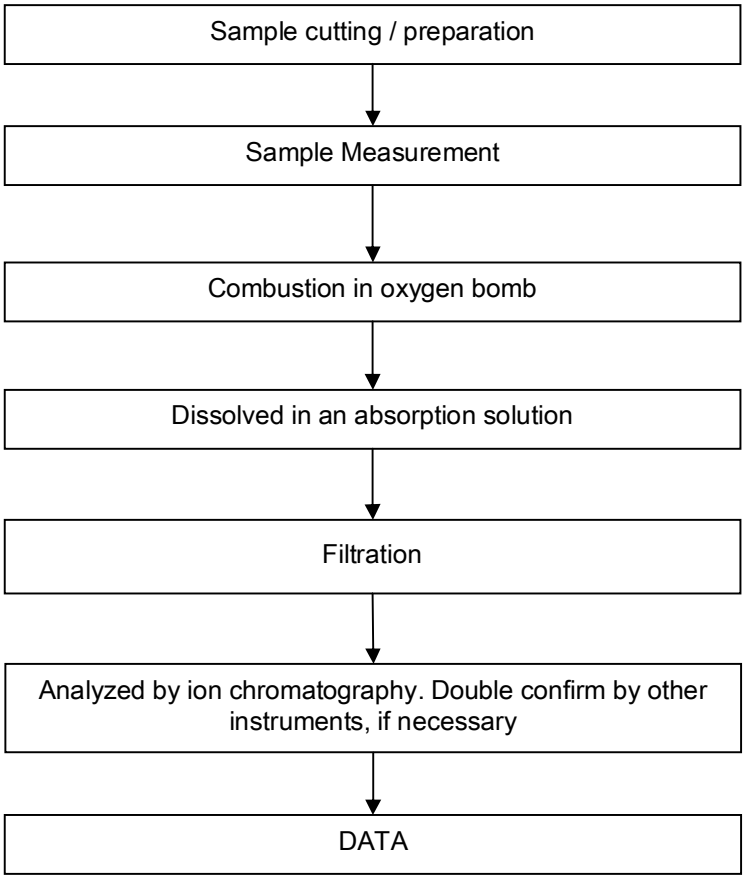
1) Name of the person who made testing: Cutey Yu
2) Name of the person in charge of testing: Yolanda Wei



ATTACHMENTS

Halogen Testing Flow Chart

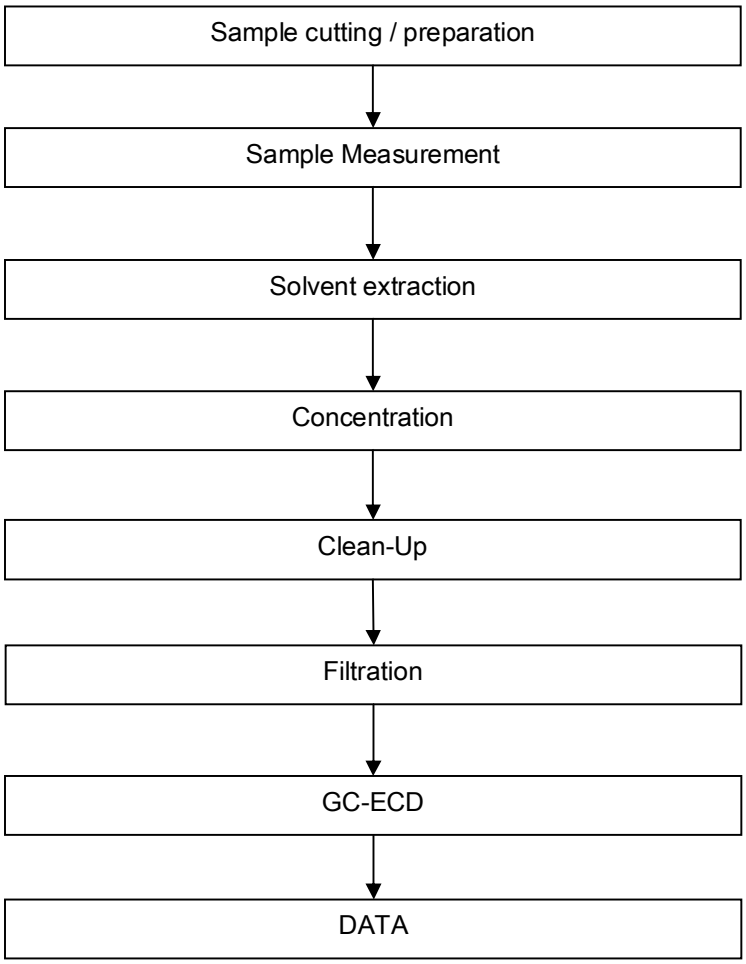
1) Name of the person who made testing: Bella Wang
2) Name of the person in charge of testing: Adams Yu



ATTACHMENTS

SCCP/MCCP Testing Flow Chart

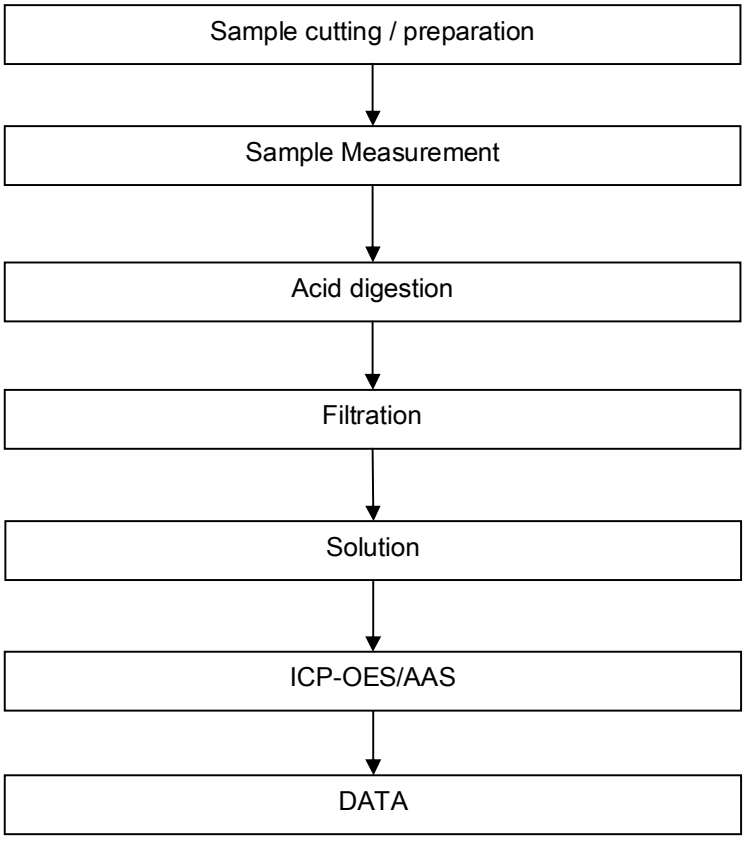
1) Name of the person who made testing: Liu Qiong
2) Name of the person in charge of testing: Yolanda Wei



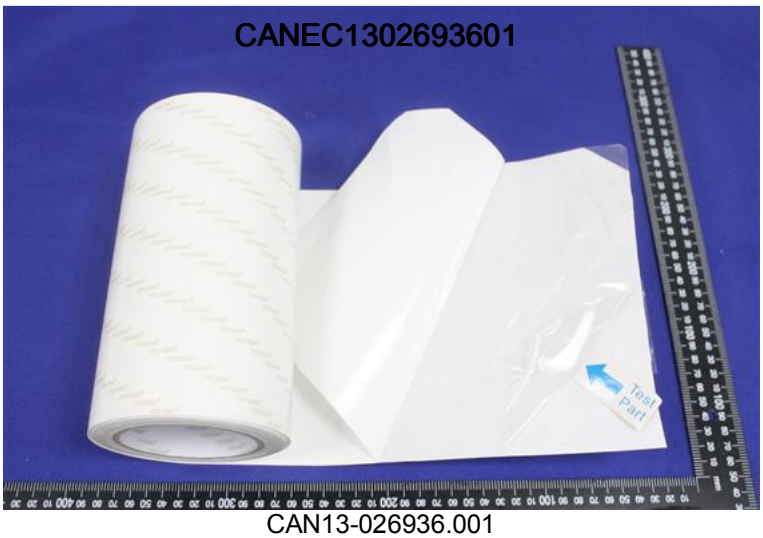
ATTACHMENTS

CPSIA Pb Testing Flow Chart

1) Name of the person who made testing: Michael Tso
2) Name of the person in charge of testing: Adams Yu



Sample photo:



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*** End of Report ***

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