

## Test Report

No. CANEC1700304205

Date: 23 Jan 2017

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KINGBOARD LAMINATES HOLDINGS LIMITED

2/F., HARBOUR VIEW 1, NO. 12 SCIENCE PARK EAST AVENUE, PHASE II HONG KONG SCIENCE PARK,  
SHATIN, N.T., HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as : KB-3152

SGS Job No. : CP17-000756 - GZ

Model No. : KB-3152

Client Ref. Info. : KB-3152C,KB-3152S,KB-3153,KB-2150G,KB-2150GC

Date of Sample Received : 05 Jan 2017

Testing Period : 05 Jan 2017 - 20 Jan 2017

Test Requested : Selected test(s) as requested by client.

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

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

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Violet*

Violet, Shi  
Approved Signatory



Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description   |
|--------------|------------------|---|
| SN1          | CAN17-003042.002 | Brown sheet(only test brown part without red "KB" printing) |

Remarks :

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

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

- 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.
  - (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
  - (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
  - (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
  - (6)With reference to IEC 62321-8:2013 (111/321/CD) , determination of phthalates by GC-MS.

| Test Item(s)               | Limit | Unit  | MDL | 002 |
|----------------------------|-------|-------|-----|-----|
| Cadmium (Cd)               | 100   | mg/kg | 2   | ND  |
| Lead (Pb)                  | 1,000 | mg/kg | 2   | ND  |
| Mercury (Hg)               | 1,000 | mg/kg | 2   | ND  |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 2   | ND  |
| Sum of PBBs                | 1,000 | 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               | 1,000 | mg/kg | -   | ND  |



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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| 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         |
| Dibutyl phthalate (DBP)             | 1000         | mg/kg       | 50         | ND         |
| Butyl benzyl phthalate (BBP)        | 1000         | mg/kg       | 50         | ND         |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000         | mg/kg       | 50         | ND         |
| Diisobutyl Phthalates (DIBP)        | 1000         | mg/kg       | 50         | ND         |

### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

### Halogen

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

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Fluorine (F)        | mg/kg       | 50         | ND         |
| Chlorine (Cl)       | mg/kg       | 50         | 257        |
| Bromine (Br)        | mg/kg       | 50         | ND         |
| Iodine (I)          | mg/kg       | 50         | ND         |

### Elementary Analysis

Test Method : With reference to SGS in house method(GZTC CHEM-TOP-099-02), analysis was performed by IC and ICP-OES

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Arsenic (As)        | mg/kg       | 10         | ND         |
| Antimony (Sb)       | mg/kg       | 10         | ND         |



**Tetrabromobisphenol A (TBBP-A)**

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

| <u>Test Item(s)</u>            | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------------|-------------|------------|------------|
| Tetrabromobisphenol A (TBBP-A) | mg/kg       | 10         | ND         |

**Red Phosphor**

Test Method : With reference to SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS& ICP-OES

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Red phosphorus      | mg/kg       | 500        | ND         |

**Hexabromocyclododecane (HBCDD)**

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

| <u>Test Item(s)</u>            | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------------|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD) | mg/kg       | 10         | ND         |

**PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)**

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

| <u>Test Item(s)</u>                | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------------------|----------------|-------------|------------|------------|
| Perfluorooctanoic acid (PFOA)      | 335-67-1       | mg/kg       | 10         | ND         |
| Perfluorooctane Sulfonates (PFOS)^ | -              | mg/kg       | 10         | ND         |

Notes :

- (1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

**Phthalate**



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Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

| <u>Test Item(s)</u>   | <u>CAS NO.</u>             | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---|----------------------------|-------------|------------|------------|
| Dibutyl Phthalate (DBP)   | 84-74-2                    | %(w/w)      | 0.003      | ND         |
| Benzylbutyl Phthalate (BBP)   | 85-68-7                    | %(w/w)      | 0.003      | ND         |
| Bis(2-ethylhexyl) Phthalate (DEHP)  | 117-81-7                   | %(w/w)      | 0.003      | ND         |
| Diisononyl Phthalate (DINP)   | 28553-12-0 /<br>68515-48-0 | %(w/w)      | 0.010      | ND         |
| Di-n-octyl Phthalate (DNOP)   | 117-84-0                   | %(w/w)      | 0.003      | ND         |
| Diisodecyl Phthalate (DIDP)   | 26761-40-0 /<br>68515-49-1 | %(w/w)      | 0.010      | ND         |
| Dimethyl Phthalate (DMP)  | 131-11-3                   | %(w/w)      | 0.003      | ND         |
| Diethyl Phthalate (DEP)   | 84-66-2                    | %(w/w)      | 0.003      | ND         |
| Dipropyl Phthalate (DPrP)   | 131-16-8                   | %(w/w)      | 0.003      | ND         |
| Diisobutyl Phthalate (DIBP)   | 84-69-5                    | %(w/w)      | 0.003      | ND         |
| Di-n-pentyl Phthalate (DnPP)  | 131-18-0                   | %(w/w)      | 0.003      | ND         |
| Di-n-hexyl Phthalate (DnHP)   | 84-75-3                    | %(w/w)      | 0.003      | ND         |
| Dicyclohexyl Phthalate (DCHP)   | 84-61-7                    | %(w/w)      | 0.003      | ND         |
| Diphenyl Phthalate (DPhP)   | 84-62-8                    | %(w/w)      | 0.003      | ND         |
| Dibenzyl Phthalate (DBzP)   | 523-31-9                   | %(w/w)      | 0.003      | ND         |
| Dinonyl Phthalate (DNP)   | 84-76-4                    | %(w/w)      | 0.003      | ND         |
| Diisooctyl Phthalate (DIOP)   | 27554-26-3                 | %(w/w)      | 0.010      | ND         |
| Bis(2-methoxyethyl) Phthalate (DMEP)  | 117-82-8                   | %(w/w)      | 0.003      | ND         |
| Diallyl Phthalate (DAP)   | 131-17-9                   | %(w/w)      | 0.003      | ND         |
| n-decyl, n-octyl Phthalate (nDnOP)  | 119-07-3                   | %(w/w)      | 0.003      | ND         |
| Di-n-decyl Phthalate (DnDP)   | 84-77-5                    | %(w/w)      | 0.003      | ND         |
| Diisopentyl Phthalate (DIPP)  | 605-50-5                   | %(w/w)      | 0.003      | ND         |
| n-pentyl Isopentyl Phthalate (nPIPP)  | 776297-69-9                | %(w/w)      | 0.003      | ND         |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6                 | %(w/w)      | 0.010      | ND         |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4                 | %(w/w)      | 0.010      | ND         |
| Di(2-ethylhexyl)adipate (DEHA)  | 103-23-1                   | %(w/w)      | 0.003      | ND         |
| Bis(4-methyl-2-pentyl) Phthalate (BMPP)   | 146-50-9                   | %(w/w)      | 0.003      | ND         |
| Bis(2-ethoxyethyl) Phthalate (DEEP)   | 605-54-9                   | %(w/w)      | 0.003      | ND         |
| Bis(2-n-butoxyethyl) Phthalate (DBEP)   | 117-83-9                   | %(w/w)      | 0.003      | ND         |
| Diundecyl Phthalate (DUDP)  | 3648-20-2                  | %(w/w)      | 0.003      | ND         |
| Diisononyl adipate (DINA)   | 33703-08-1                 | %(w/w)      | 0.010      | ND         |
| Ditridecyl Phthalate (DTDP)   | 119-06-2                   | %(w/w)      | 0.003      | ND         |
| Trioctyl trimellitate (TOTM)  | 3319-31-1                  | %(w/w)      | 0.003      | ND         |



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| <u>Test Item(s)</u>   | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---|----------------|-------------|------------|------------|
| Diocetyl Terephthalate (DOTP)   | 6422-86-2      | %(w/w)      | 0.003      | ND         |
| Di-n-heptyl Phthalate (DnHpP)   | 3648-21-3      | %(w/w)      | 0.003      | ND         |
| Acetyltributylcitrate (Citroflex, ATBC)                                 | 77-90-7        | %(w/w)      | 0.010      | ND         |
| Di(2-propylheptyl) Phthalate(DPHpP)                                     | 53306-54-0     | %(w/w)      | 0.010      | ND         |
| 1,2-Benzenedicarboxylic acid, dihexyl ester branched and linear(DHP)    | 68515-50-4     | %(w/w)      | 0.010      | ND         |
| 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) | 84777-06-0     | %(w/w)      | 0.010      | 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):
- 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.
  - 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
- (2)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).
- 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.
  - 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

### Organic-tin compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS.

| <u>Test Item(s)</u>       | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------------|-------------|------------|------------|
| Monobutyl tin (MBT)       | mg/kg       | 0.02       | ND         |
| Dibutyl tin (DBT)         | mg/kg       | 0.02       | ND         |
| Tributyl tin (TBT)        | mg/kg       | 0.02       | ND         |
| Monooctyl tin (MOT)       | mg/kg       | 0.02       | ND         |
| Tetrabutyltin (TTBT/TeBT) | mg/kg       | 0.02       | ND         |
| Diocetyl tin (DOT)        | mg/kg       | 0.02       | ND         |
| Triphenyl tin (TPhT)      | mg/kg       | 0.02       | ND         |
| Tricyclohexyl tin (TCyT)  | mg/kg       | 0.02       | ND         |

### European Regulation (EC) No. 850/2004 and its amendment Regulation (EU) 2015/2030 -Chlorinated Paraffins --Articles



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Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

| <u>Test Item(s)</u>   | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u>  |
|---|--------------|-------------|------------|-------------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) | 1500         | mg/kg       | 50         | ND          |
| <b>Comment</b>  |              |             |            | <b>PASS</b> |

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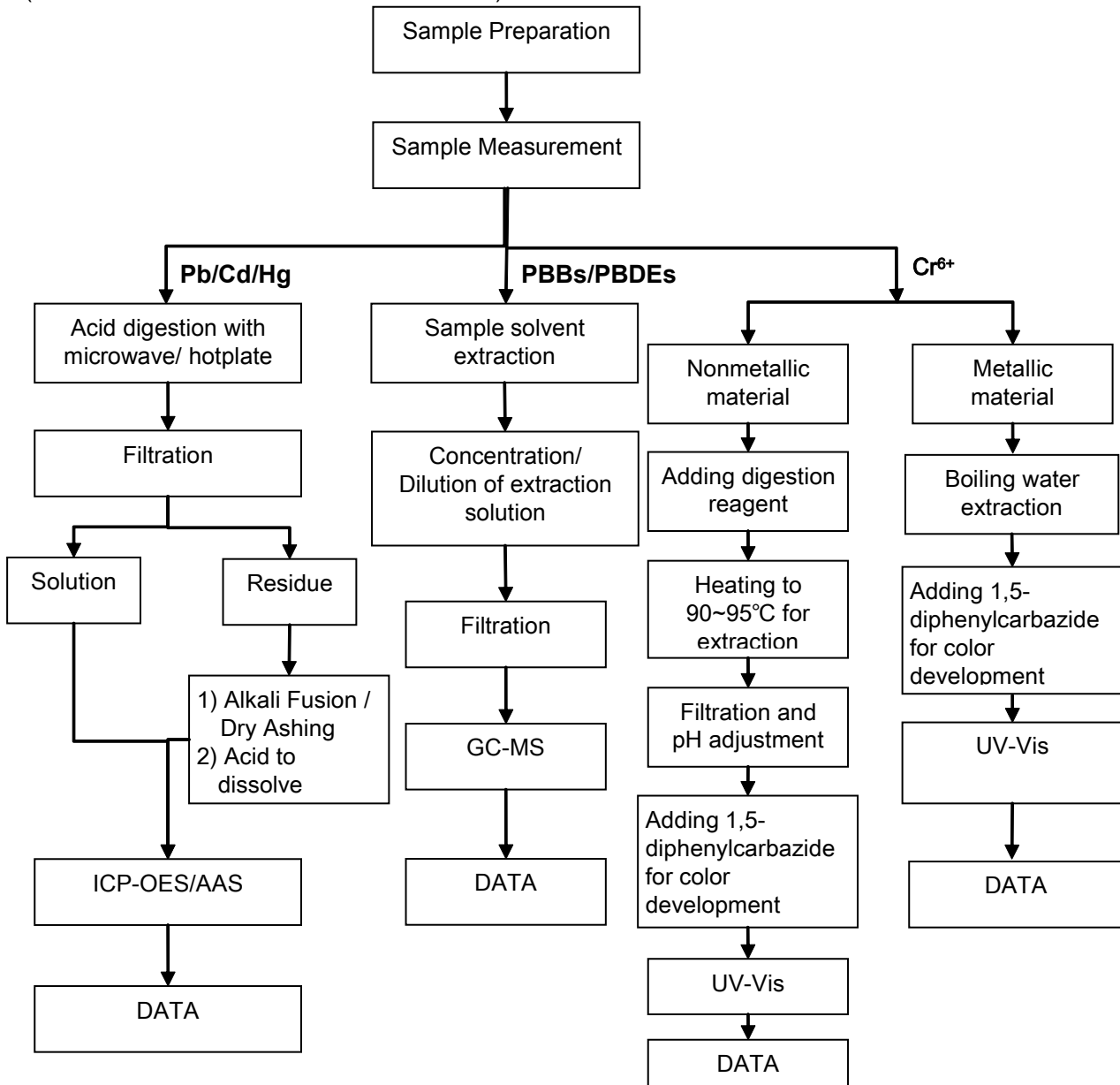
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**Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart**

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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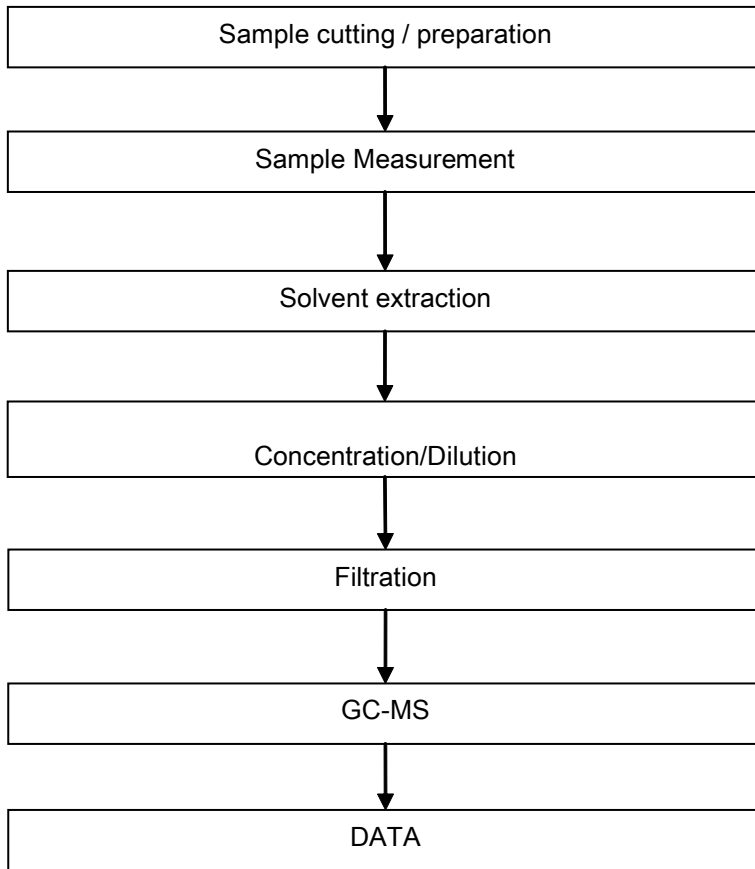
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



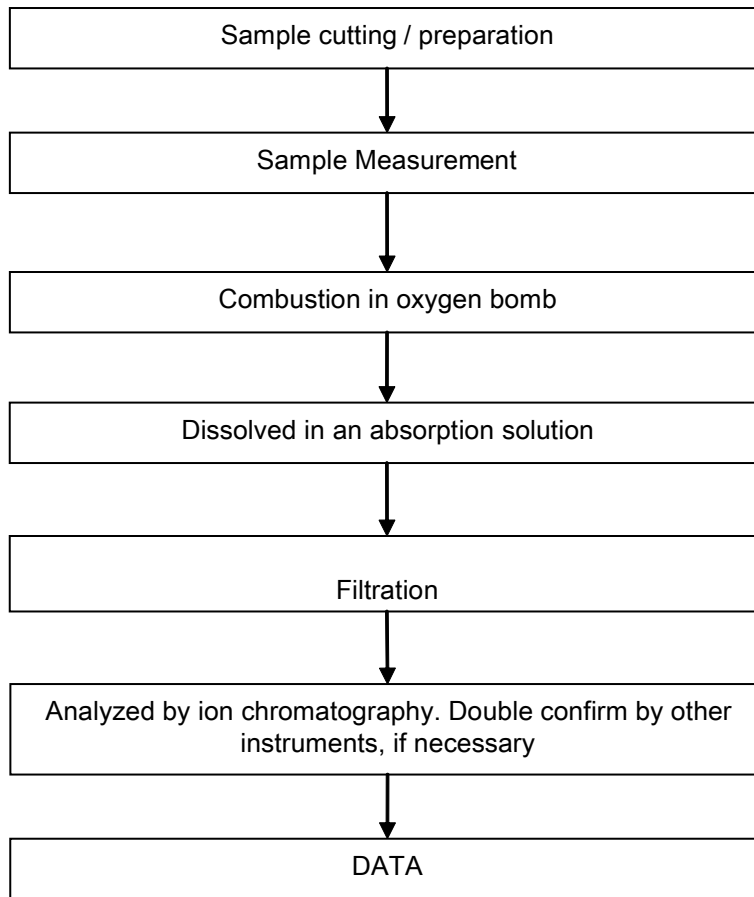
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Halogen Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang



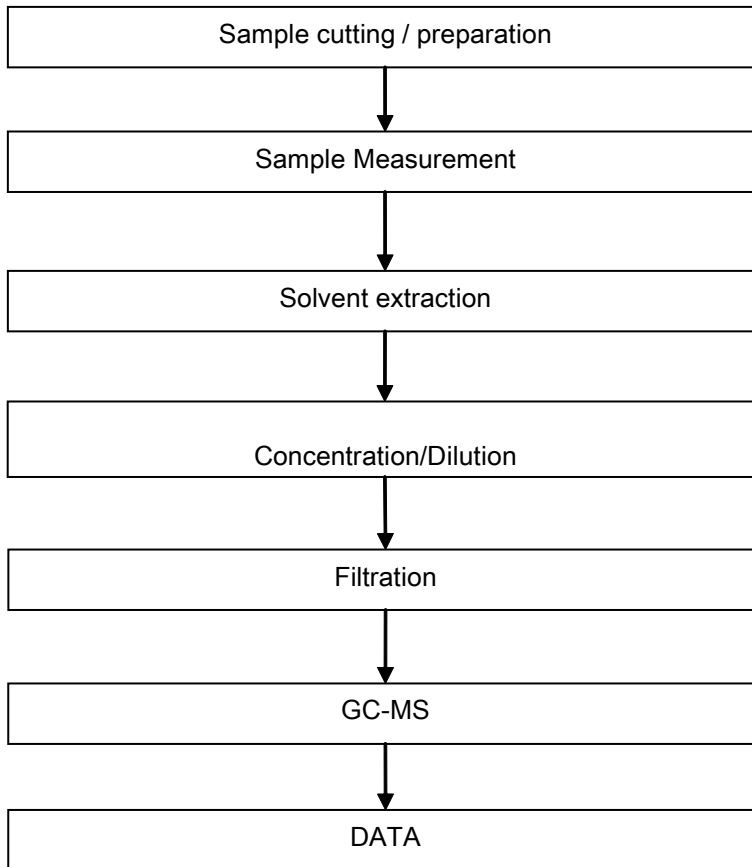
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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



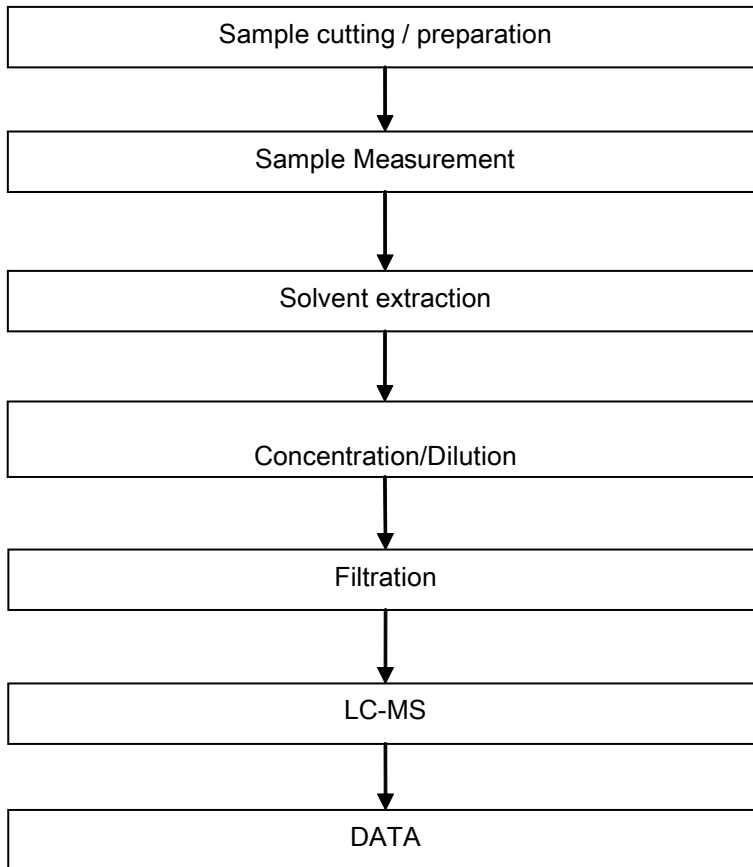
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## ATTACHMENTS

### PFOA / PFOS Testing Flow Chart

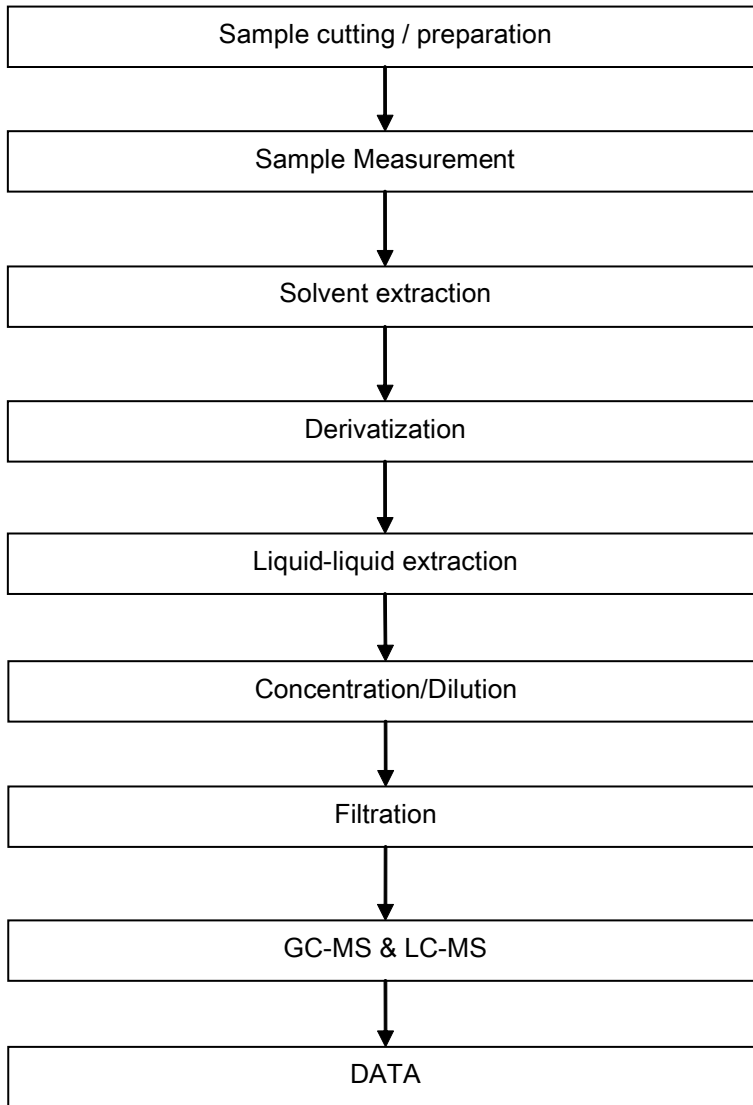
- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Qiong Liu



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TBBP-A Testing Flow Chart

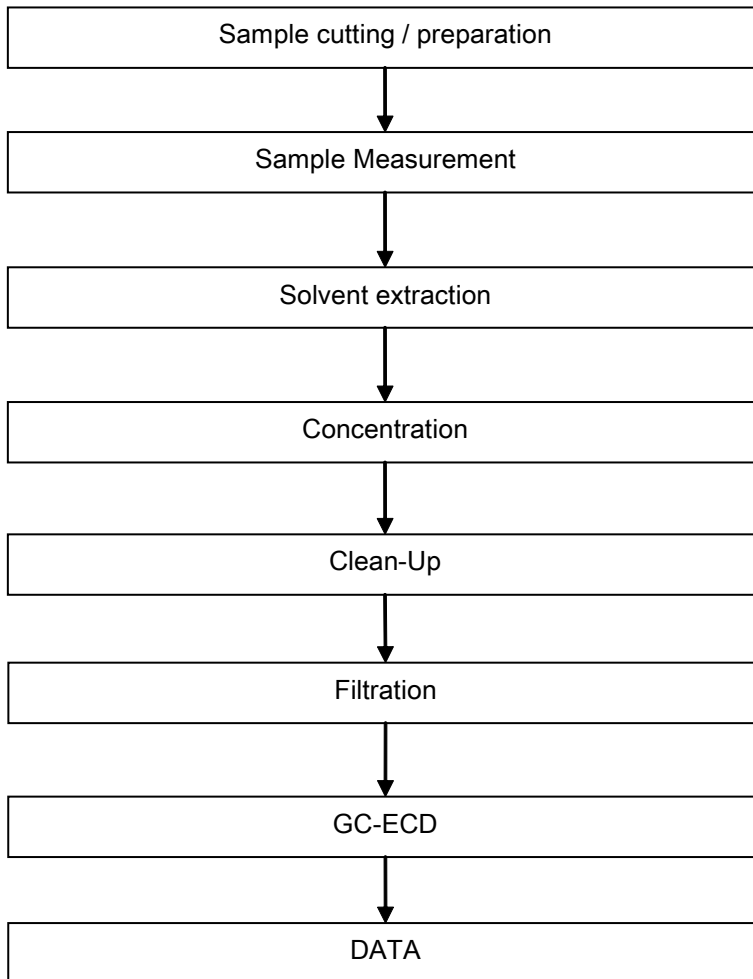
- 1) Name of the person who made testing: Judy Zhang
- 2) Name of the person in charge of testing: Qiong Liu



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SCCP/MCCP Testing Flow Chart

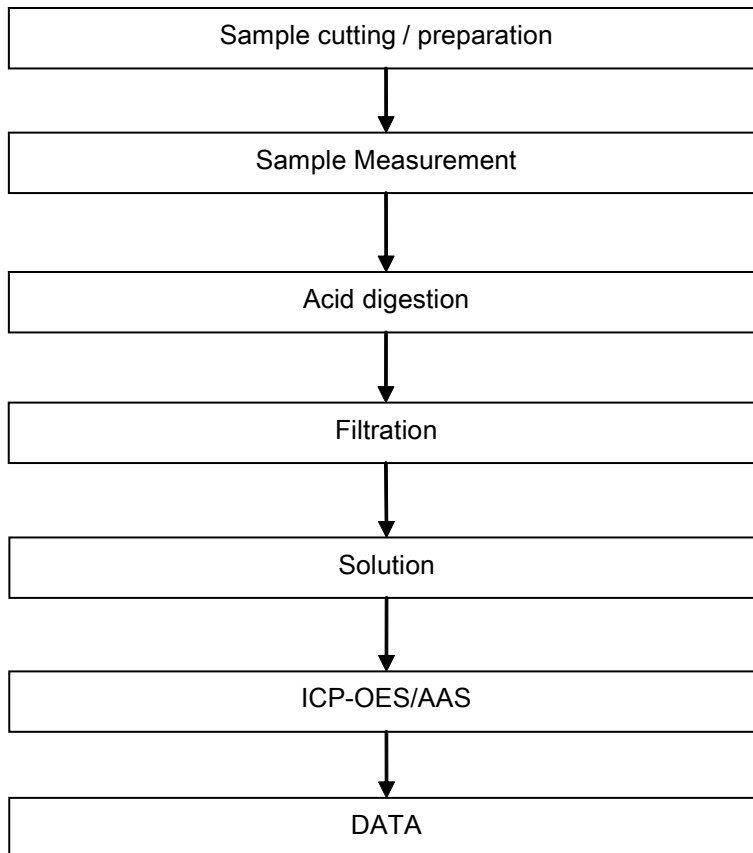
- 1) Name of the person who made testing: Iris Zhong
- 2) Name of the person in charge of testing: Lireny Liu



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Elementary Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang
- 2) Name of the person in charge of testing: Bella Wang



Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*