

## Test Report

No. SHAEC1818655204

Date: 24 Aug 2018

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TANAKA ELECTRONICS (HANGZHOU) CO.,LTD.

F1 AREA, WEST NO.19 STREET, NORTH NO.10 STREET, HANGZHOU ECONOMIC&TECHNOLOGICAL DEVELOPMENT ZONE,HANGZHOU

The following sample(s) was/were submitted and identified on behalf of the clients as : Pd Coating Cu Wire

SGS Job No. : SP18-028471 - SH

Date of Sample Received : 17 Aug 2018

Testing Period : 17 Aug 2018 - 23 Aug 2018

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 Cadmium, Lead, Mercury, 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. When tested as specified, Dimethyl fumarate(DMF) content of the submitted sample comply with Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006

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

Jenny Yao

Jenny Yao  
Approved Signatory



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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description        |
|--------------|------------------|--------------------|
| SN1          | SHA18-186552.002 | Silvery metal wire |

Remarks :

- (1) 1 mg/kg = 1 ppm = 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 : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS, UV-Vis and GC-MS.

| Test Item(s)                  | Limit | Unit               | MDL  | 002 |
|-------------------------------|-------|--------------------|------|-----|
| 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))▼ | -     | µg/cm <sup>2</sup> | 0.10 | 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  |



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| Test Item(s)                      | Limit | Unit  | MDL | 002 |
|-----------------------------------|-------|-------|-----|-----|
| 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  |
| Di-butyl Phthalate (DBP)          | 1000  | mg/kg | 50  | ND  |
| Benzyl Butyl Phthalate (BBP)      | 1000  | mg/kg | 50  | ND  |
| Di-2-Ethyl Hexyl 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.  
IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) ▽ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>.  
The sample coating is considered to contain CrVI  
b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI 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.

### Element(s)

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

| Test Item(s)                                          | Unit  | MDL | 002 |
|-------------------------------------------------------|-------|-----|-----|
| Beryllium (Be)                                        | mg/kg | 5   | ND  |
| Beryllium oxide (BeO) ♦                               | mg/kg | 15  | ND  |
| Antimony (Sb)                                         | mg/kg | 10  | ND  |
| Antimony trioxide (Sb <sub>2</sub> O <sub>3</sub> ) ♦ | mg/kg | 12  | ND  |

### Notes :

- (1) ♦ Calculated concentration of BeO is based on the identified Be  
Calculated concentration of Sb<sub>2</sub>O<sub>3</sub> is based on the identified Sb

### Halogen



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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         | ND         |
| Bromine (Br)        | mg/kg       | 50         | ND         |
| Iodine (I)          | mg/kg       | 50         | ND         |

### Organic-tin compounds

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

| <u>Test Item(s)</u>             | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------------------|-------------|------------|------------|
| Tributyl tin (TBT)              | mg/kg       | 0.02       | ND         |
| Dibutyl tin (DBT)               | mg/kg       | 0.02       | ND         |
| Diocetyl tin (DOT)              | mg/kg       | 0.02       | ND         |
| Tripropyltin (TPT)              | mg/kg       | 0.02       | ND         |
| Bis(tributyltin) oxide (TBTO) ♦ | mg/kg       | 0.02       | ND         |

Notes :

(1) ♦Calculated concentration of TBTO is based on the identified TBT.

### Polychlorinated Naphthalenes (PCNs)

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

| <u>Test Item(s)</u>                    | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|----------------------------------------|-------------|------------|------------|
| 2-Chlorinated Naphthalene              | mg/kg       | 5          | ND         |
| 1,4-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,5-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,2-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,8-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,2,3-Trichlorinated Naphthalene       | mg/kg       | 5          | ND         |
| 1,2,3,4-Tetrachlorinated Naphthalene   | mg/kg       | 5          | ND         |
| 1,2,3,4,6-Pentachlorinated Naphthalene | mg/kg       | 5          | ND         |
| Octa-chlorinated Naphthalene           | mg/kg       | 5          | ND         |
| 1-Chlorinated Naphthalene              | mg/kg       | 5          | ND         |



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### Short-chain Chlorinated Paraffin (SCCP) and Medium-chain Chlorinated Paraffin (MCCP)

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

| <u>Test Item(s)</u>                                                             | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------------------------------------------------------------------|-------------|------------|------------|
| Short-chain Chlorinated Paraffin (SCCP) (C <sub>10</sub> -C <sub>13</sub> )     | mg/kg       | 50         | ND         |
| Medium-chain Chlorinated Paraffin (MCCP)<br>(C <sub>14</sub> -C <sub>17</sub> ) | mg/kg       | 50         | ND         |

### Red Phosphorus

Test Method : SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Pyrolysis-GC/MS

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

#### Notes :

For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

### Tetrabromobisphenol A (TBBP-A)

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

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

### PVC (Polyvinyl chloride)

Test Method : In-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR/HATR.



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| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|----------------|-------------|------------|------------|
| PVC                 | 9002-86-2      | -           | -          | Negative   |

Notes :

(1) Negative=Undetectable,Positive=Detectable

### Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006 - Dimethyl fumarate(DMF)

Test Method : Solvent extraction, analysis was performed by GC-MS.

| <u>Test Item(s)</u>    | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------|--------------|-------------|------------|------------|
| Dimethyl fumarate(DMF) | 0.1          | mg/kg       | 0.1        | ND         |

### Bisphenol-A

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

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Bisphenol-A         | mg/kg       | 1          | ND         |

### Polychlorinated Terphenyls (PCTs)

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

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Aroclor 5432        | mg/kg       | 5          | ND         |
| Aroclor 5442        | mg/kg       | 5          | 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         |



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### Polychlorinated Biphenyls (PCBs)

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

| <u>Test Item(s)</u>                            | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------------------------------|----------------|-------------|------------|------------|
| 2,4,4'-Trichlorobiphenyl (PCB 28)              | 7012-37-5      | mg/kg       | 0.5        | ND         |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52)        | 35693-99-3     | mg/kg       | 0.5        | ND         |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)     | 37680-73-2     | mg/kg       | 0.5        | ND         |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118)      | 31508-00-6     | mg/kg       | 0.5        | ND         |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138)   | 35065-28-2     | mg/kg       | 0.5        | ND         |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)   | 35065-27-1     | mg/kg       | 0.5        | ND         |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180) | 35065-29-3     | mg/kg       | 0.5        | ND         |

### Phthalates Content

Test Method : With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

| <u>Test Item(s)</u>                                                            | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------------------------------------------------------------|----------------|-------------|------------|------------|
| Diisononyl Phthalate (DINP)                                                    | 28553-12-0     | mg/kg       | 50         | ND         |
|                                                                                | /68515-48-0    |             |            |            |
| Di-n-pentyl Phthalates (DnPP)                                                  | 131-18-0       | mg/kg       | 50         | ND         |
| Di-n-octyl Phthalate (DNOP)                                                    | 117-84-0       | mg/kg       | 50         | ND         |
| Diisodecyl Phthalate (DIDP)                                                    | 26761-40-0     | mg/kg       | 50         | ND         |
|                                                                                | /68515-49-1    |             |            |            |
| Dihexyl Phthalates (DnHP)                                                      | 84-75-3        | mg/kg       | 50         | ND         |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP) | 68515-42-4     | mg/kg       | 50         | ND         |
| Bis(2-methoxyethyl) Phthalate (DMEP)                                           | 117-82-8       | mg/kg       | 50         | ND         |
| Diisooheptyl phthalate (DIHP)                                                  | 71888-89-6     | mg/kg       | 50         | ND         |

### PFOS (Perfluorooctane Sulfonates) and Perfluorooctanoic Acid (PFOA)

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

| <u>Test Item(s)</u>                | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------------------|--------------|-------------|------------|------------|
| Perfluorooctane Sulfonates (PFOS)^ | 1000         | mg/kg       | 10         | ND         |
| Perfluorooctanoic Acid (PFOA)      | -            | mg/kg       | 10         | ND         |

Notes :

(1) Max. limit specified by commission regulation (EU) No. 757/2010 amending regulation (EC) No



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## Test Report

No. SHAEC1818655204

Date: 24 Aug 2018

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850/2004.

(2) ^ 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.



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Testing Center-Chemical Laboratory

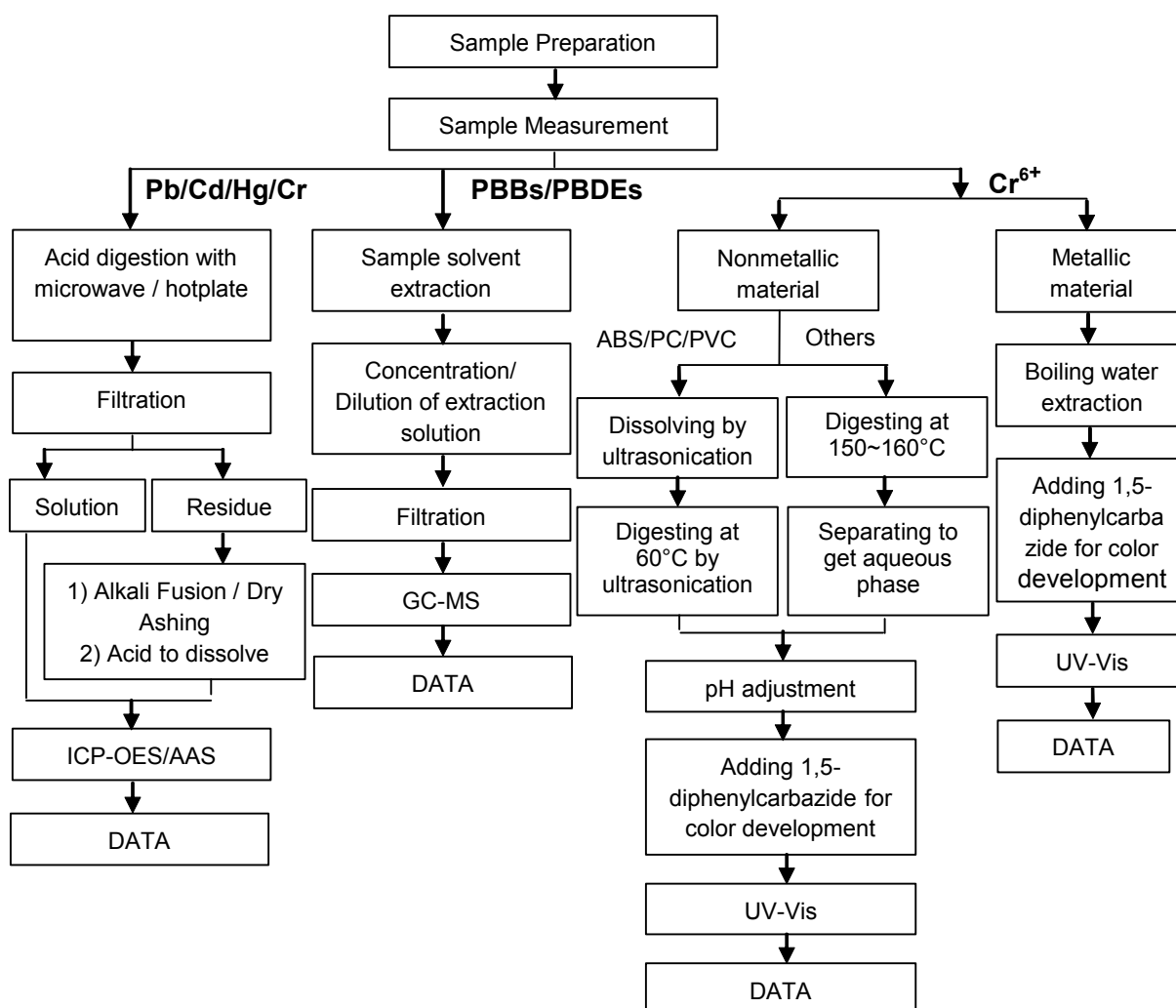
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### Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Gary Xu/ Xiaolong Yang/Sielina Song
- 2) Name of the person in charge of testing: Jan Shi/Myra Ma/Luna Xu/Shara Wang
- 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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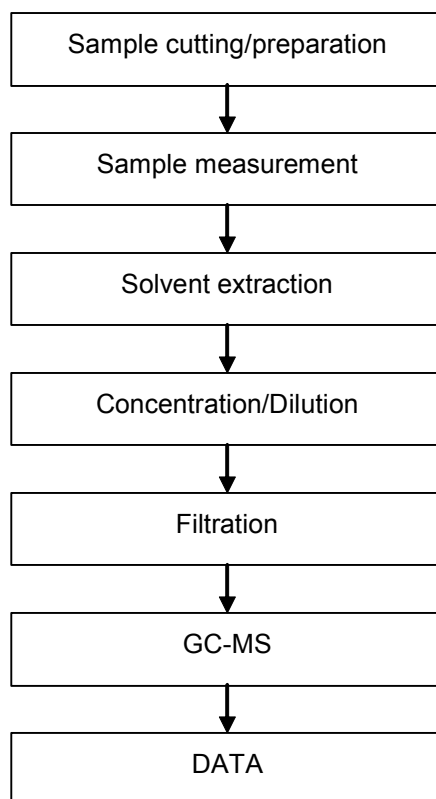
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### Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sherlock Gao
- 2) Name of the person in charge of testing: Jessy Huang



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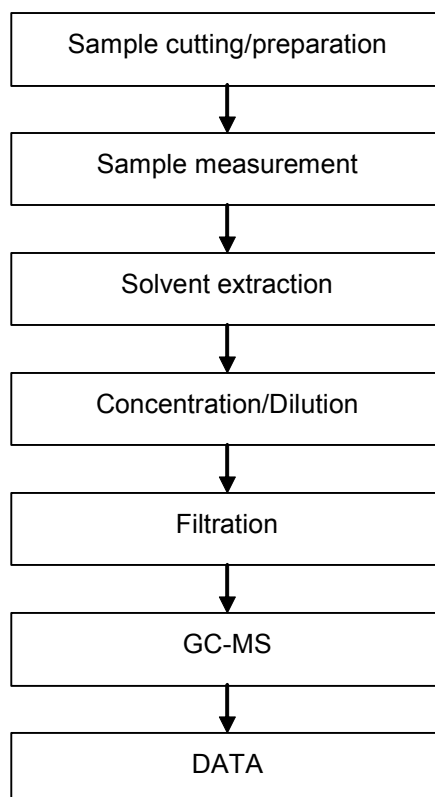
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### HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra ma



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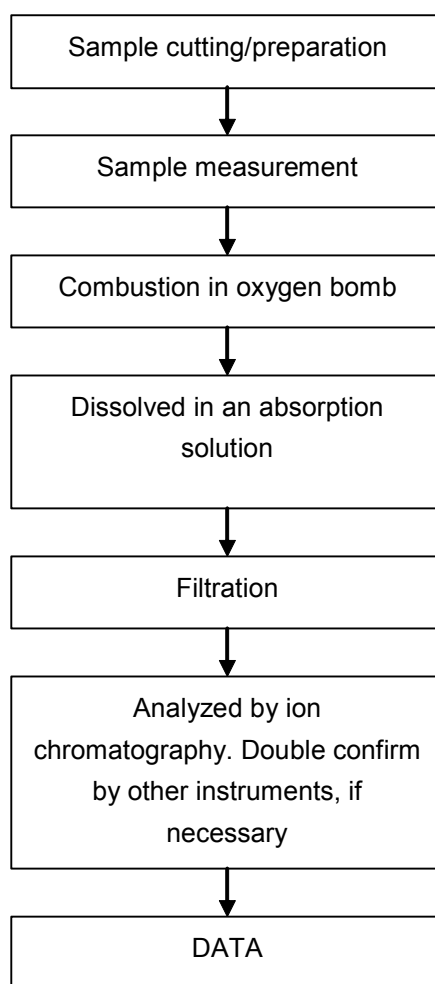
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### Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Kevin Xu
- 2) Name of the person in charge of testing: Anne Huang



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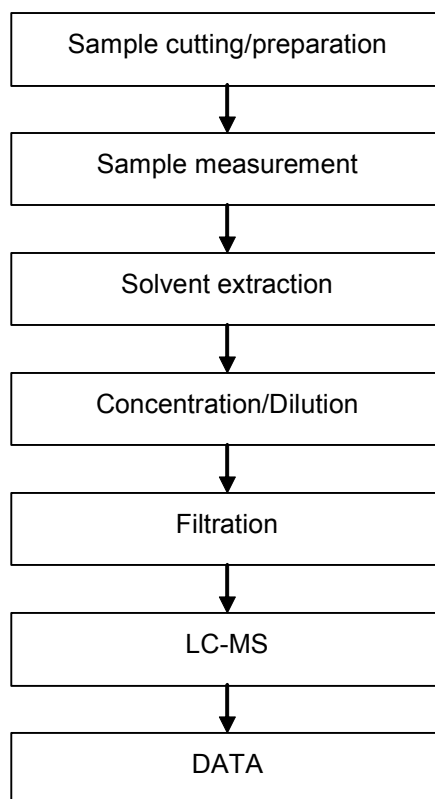
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### PFOS/PFOA Testing Flow Chart

- 1) Name of the person who made testing: Richer Yu
- 2) Name of the person in charge of testing: Jessy Huang



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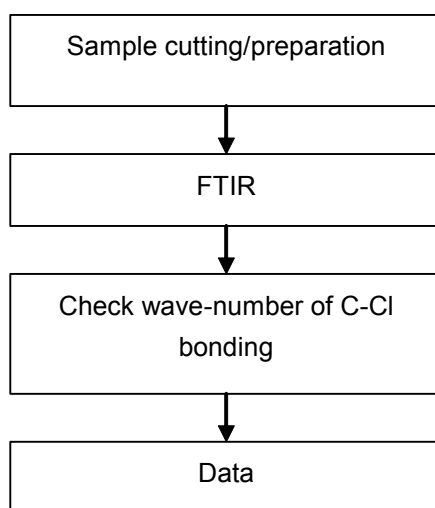
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### PVC Testing Flow Chart

- 1) Name of the person who made testing: Sally Liang
- 2) Name of the person in charge of testing: Grace Chen



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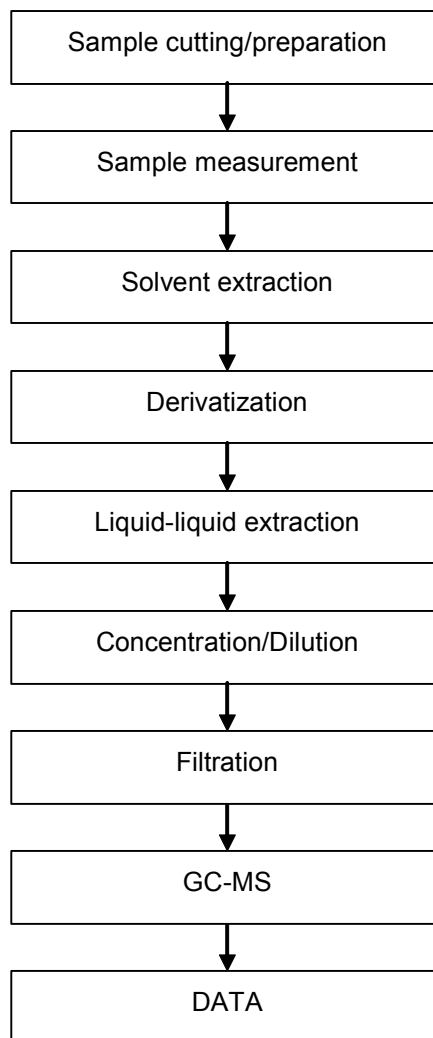
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### Organotin Testing Flow Chart

- 1) Name of the person who made testing: Alex Deng
- 2) Name of the person in charge of testing: Myra ma



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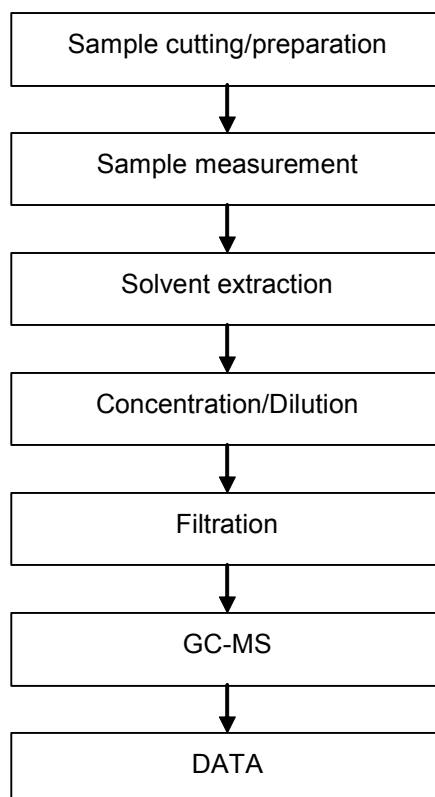
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### PCB/ PCT/ PCN Testing Flow Chart

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- 2) Name of the person in charge of testing: Brin Feng



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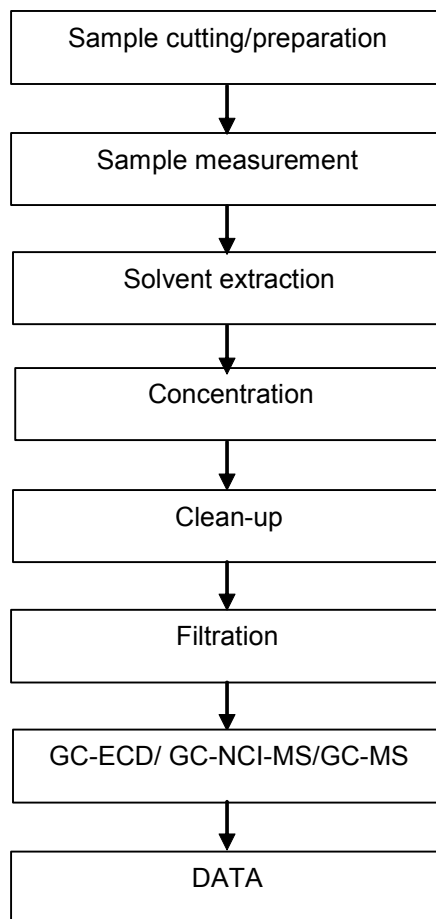
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### SCCP/MCCP Testing Flow Chart

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- 2) Name of the person in charge of testing: Brin Feng



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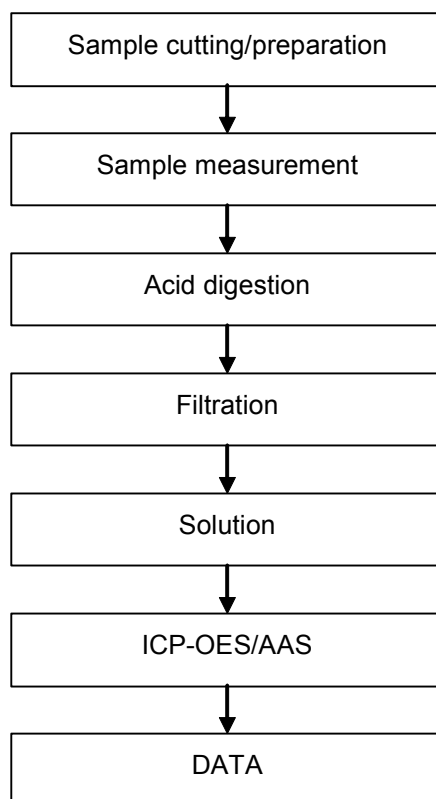
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### Elements Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song
- 2) Name of the person in charge of testing: Luna Xu/Jan Shi



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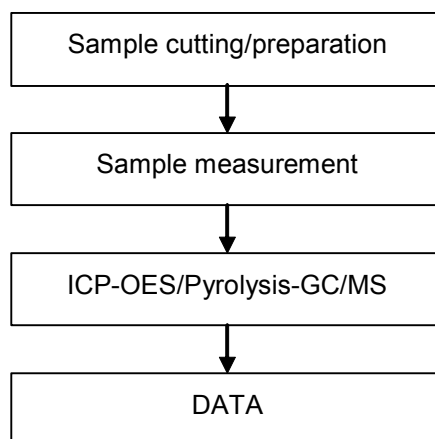
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### Red Phosphorus Testing Flow Chart

- 1) Name of the person who made testing: Sally Liang
- 2) Name of the person in charge of testing: Grace Chen



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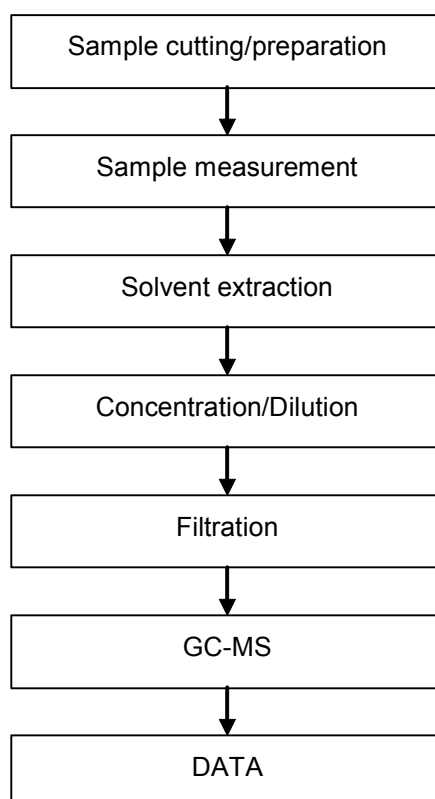
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### DMF (Dimethyl fumarate) Testing Flow Chart

- 1) Name of the person who made testing: Alex Deng
- 2) Name of the person in charge of testing: Myra ma



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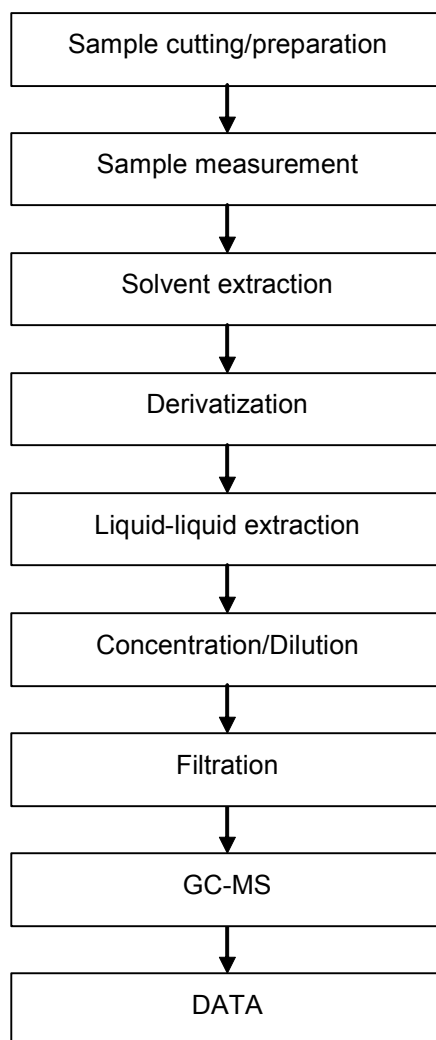
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## ATTACHMENTS

### TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra ma



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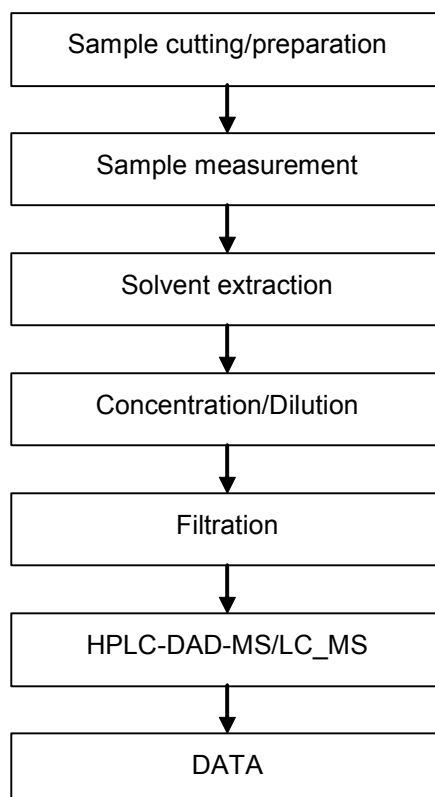
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## ATTACHMENTS

### BPA Testing Flow Chart

- 1) Name of the person who made testing: Richer Yu
- 2) Name of the person in charge of testing: Jessy Huang



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## Test Report

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