

## Test Report

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EPSON TAIWAN TECHNOLOGY & TRADING LTD.  
14F, NO. 7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : CRYSTAL  
Style/Item No. : CRYSTAL  
Sample Receiving Date : 2008/07/22  
Testing Period : 2008/07/22 TO 2008/07/25

=====  
Test Result(s) : Please refer to next page(s).

**Chenyu Kung / Operation Manager**  
**Signed for and on behalf of**  
**SGS TAIWAN LTD.**  
**Chemical Laboratory – Taipei**

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## Test Result(s)

PART NAME NO.1 : TRANSPARENT LUMP

| Test Item (s):                                    | Unit  | Method  | MDL | Result |
|---|-------|---|-----|--------|
|   |       |   |     | No.1   |
| Cadmium (Cd)                                      | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.  | 2   | n.d.   |
| Lead (Pb)   | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.   | 2   | n.d.   |
| Mercury (Hg)                                      | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.  | 2   | n.d.   |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry. | 2   | n.d.   |
| Halogen-Chlorine (Cl)<br>(CAS No.: 022537-15-1)   | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.   | 50  | n.d.   |
| Halogen-Bromine (Br)<br>(CAS No.: 010097-32-2)    | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.  | 50  | n.d.   |
| PFOS  | mg/kg | With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.   | 10  | n.d.   |
| <b>Sum of PBBs</b>                                |       |   | -   | n.d.   |
| Monobromobiphenyl                                 | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.   | 5   | n.d.   |
| Dibromobiphenyl                                   |       |   | 5   | n.d.   |
| Tribromobiphenyl                                  |       |   | 5   | n.d.   |
| Tetrabromobiphenyl                                |       |   | 5   | n.d.   |
| Pentabromobiphenyl                                |       |   | 5   | n.d.   |
| Hexabromobiphenyl                                 |       |   | 5   | n.d.   |
| Heptabromobiphenyl                                |       |   | 5   | n.d.   |
| Octabromobiphenyl                                 |       |   | 5   | n.d.   |
| Nonabromobiphenyl                                 |       |   | 5   | n.d.   |
| Decabromobiphenyl                                 |       |   | 5   | n.d.   |

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| Test Item (s):           | Unit  | Method  | MDL | Result |
|--------------------------|-------|---|-----|--------|
|                          |       |   |     | No.1   |
| <b>Sum of PBDEs</b>      | mg/kg | With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS. | -   | n.d.   |
| Monobromodiphenyl ether  |       |   | 5   | n.d.   |
| Dibromodiphenyl ether    |       |   | 5   | n.d.   |
| Tribromodiphenyl ether   |       |   | 5   | n.d.   |
| Tetrabromodiphenyl ether |       |   | 5   | n.d.   |
| Pentabromodiphenyl ether |       |   | 5   | n.d.   |
| Hexabromodiphenyl ether  |       |   | 5   | n.d.   |
| Heptabromodiphenyl ether |       |   | 5   | n.d.   |
| Octabromodiphenyl ether  |       |   | 5   | n.d.   |
| Nonabromodiphenyl ether  |       |   | 5   | n.d.   |
| Decabromodiphenyl ether  |       |   | 5   | n.d.   |

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. " - " = Not Regulated

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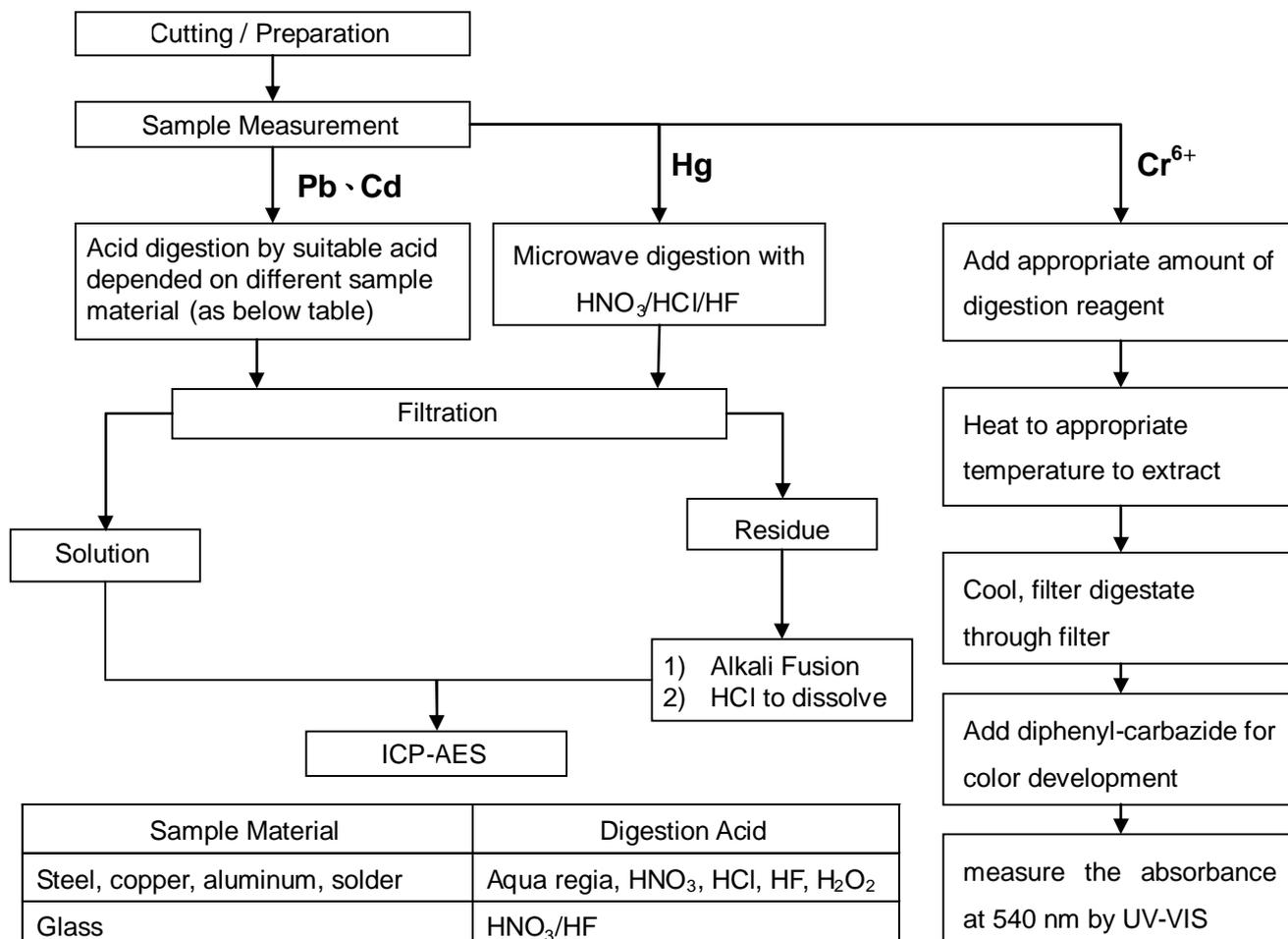
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



| Sample Material                    | Digestion Acid  |
|------------------------------------|---|
| Steel, copper, aluminum, solder    | Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>                   |
| Glass                              | HNO <sub>3</sub> /HF  |
| Gold, platinum, palladium, ceramic | Aqua regia  |
| Silver                             | HNO <sub>3</sub>  |
| Plastic                            | H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl |
| Others                             | Any acid to total digestion   |

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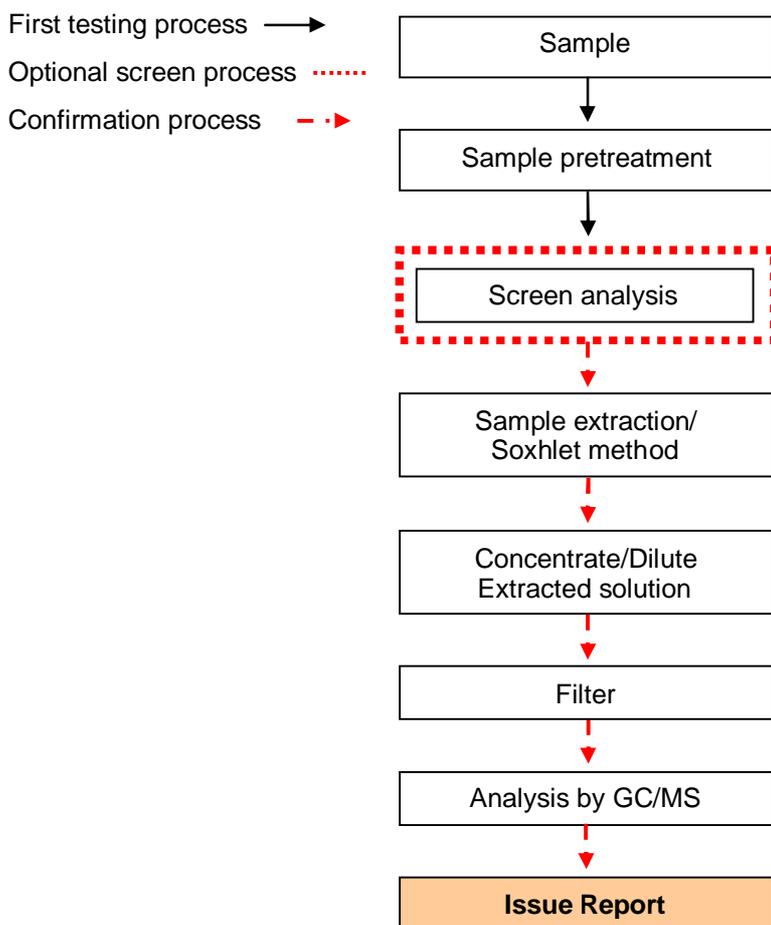
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### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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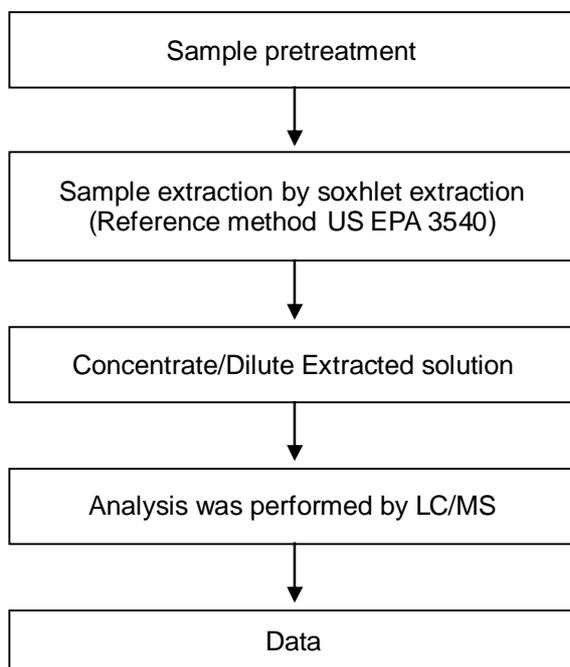
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### Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Carrie Liu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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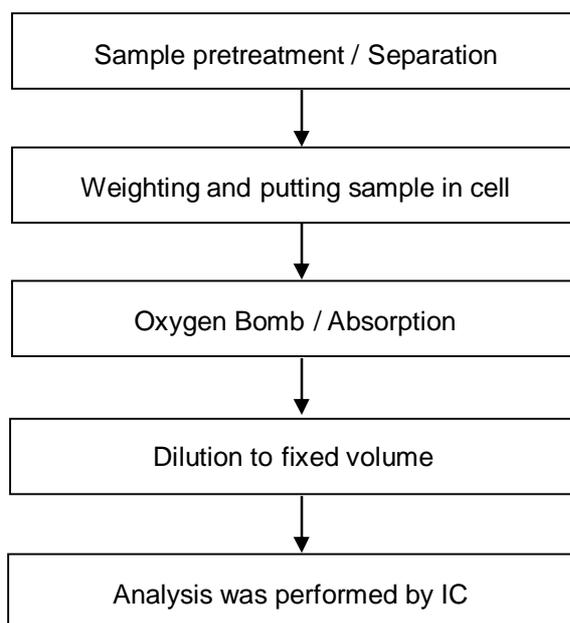
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Troy Chang



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\*\* End of Report \*\*

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