

## Test Report

No. CANEC1503945307

Date: 27 Mar 2015

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DONGGUAN SANYOU ELECTRICAL APPLIANCES CO.,LTD

NO.62,TANGPU WEST ROAD,PUXINHU,TANGXIA TOWN,DONGGUAN CITY,GAUNGDONG  
CHINA

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

SGS Job No. : CP15-012421 - GZ  
Model No. : SYS  
Date of Sample Received : 20 Mar 2015  
Testing Period : 20 Mar 2015 - 27 Mar 2015  
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).

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



Merry Lv  
Approved Signatory



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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description                                                       |
|--------------|------------------|-------------------------------------------------------------------|
| SN1          | CAN15-039453.007 | Black plastic(a)+white plastic(b)+yellow adhesive plastic tape(c) |
| SN2          | CAN15-039453.008 | Mixed all metal parts(mixed)                                      |

Remarks :

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

### Elementary Analysis & Flame Retardants

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 62321:2008, determination of PBBs and PBDEs by GC-MS.

| Test Item(s)               | Unit  | MDL | 007 |
|----------------------------|-------|-----|-----|
| Cadmium (Cd)               | mg/kg | 2   | ND  |
| Lead (Pb)                  | mg/kg | 2   | 3   |
| Mercury (Hg)               | mg/kg | 2   | ND  |
| Hexavalent Chromium (CrVI) | mg/kg | 2   | ND  |
| Sum of PBBs                | 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               | mg/kg | -   | ND  |



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| <u>Test Item(s)</u>      | <u>Unit</u> | <u>MDL</u> | <u>007</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         |

## Elementary Analysis

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 spot test / Colorimetric Method using UV-Vis.

| <u>Test Item(s)</u>        | <u>Unit</u> | <u>MDL</u> | <u>008</u> |
|----------------------------|-------------|------------|------------|
| Cadmium (Cd)               | mg/kg       | 2          | ND         |
| Lead (Pb)                  | mg/kg       | 2          | ND         |
| Mercury (Hg)               | mg/kg       | 2          | ND         |
| Hexavalent Chromium (CrVI) | -           | ◇          | Negative   |

## Notes :

(1)◇Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.



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## Hexabromocyclododecane (HBCDD)

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

| Test Item(s)                   | Unit  | MDL | 007 |
|--------------------------------|-------|-----|-----|
| Hexabromocyclododecane (HBCDD) | mg/kg | 10  | ND  |

Notes :

- (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.

## Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

| Test Item(s)                       | CAS NO.  | Unit   | MDL   | 007 |
|------------------------------------|----------|--------|-------|-----|
| 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  |
| Diisobutyl Phthalate (DIBP)        | 84-69-5  | %(w/w) | 0.003 | ND  |

Notes :

- (1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:  
Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

Remark 1: Results of 007 shown are of the total weight of mixed samples.

Remark 2: The sample(s) of 007 & 008 was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.



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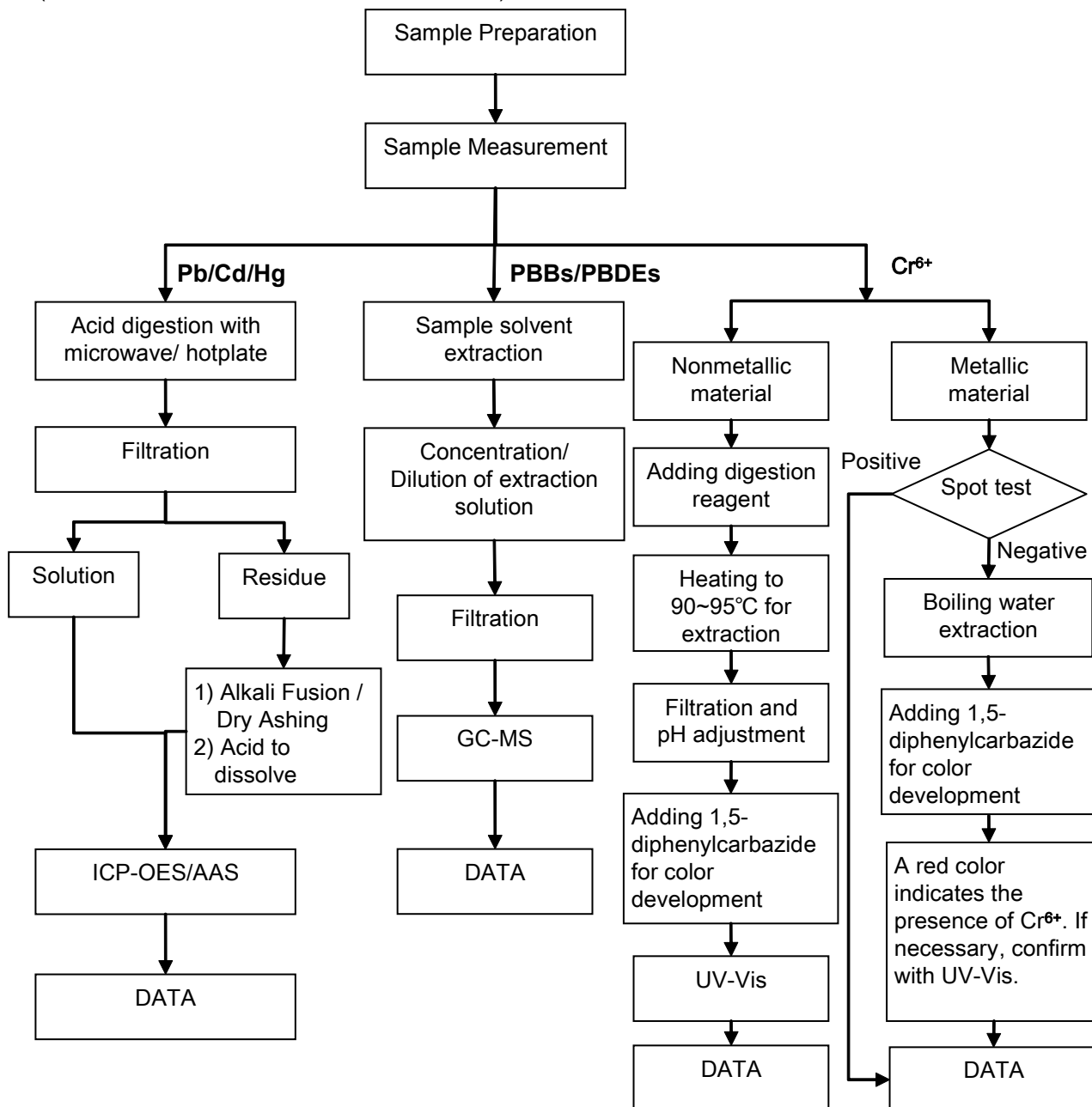
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### ATTACHMENTS

#### RoHS Testing Flow Chart

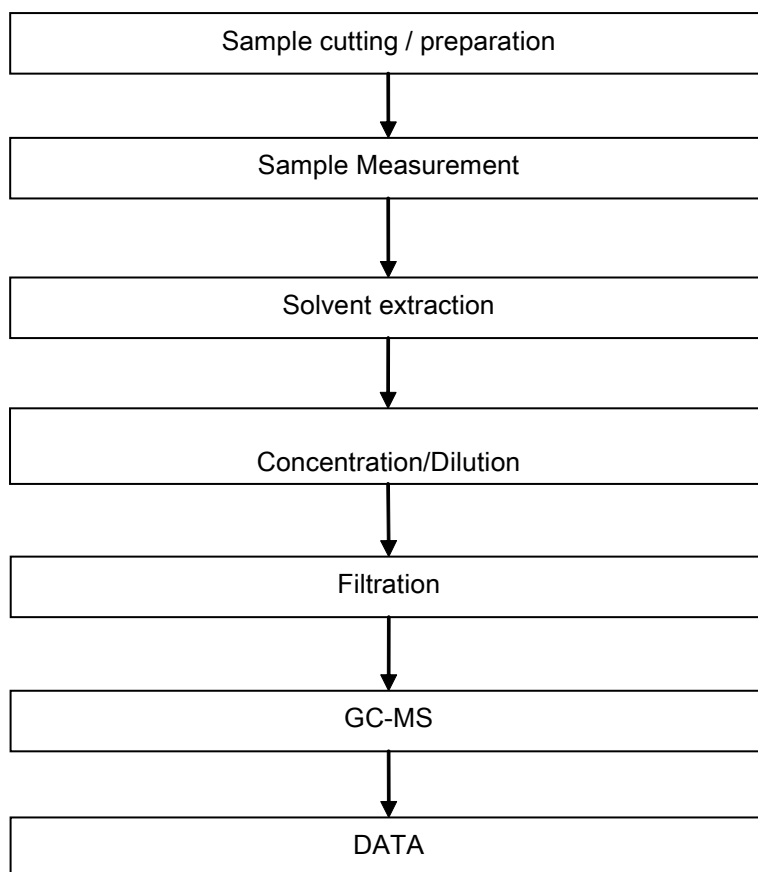
- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



## ATTACHMENTS

### HBCDD Testing Flow Chart

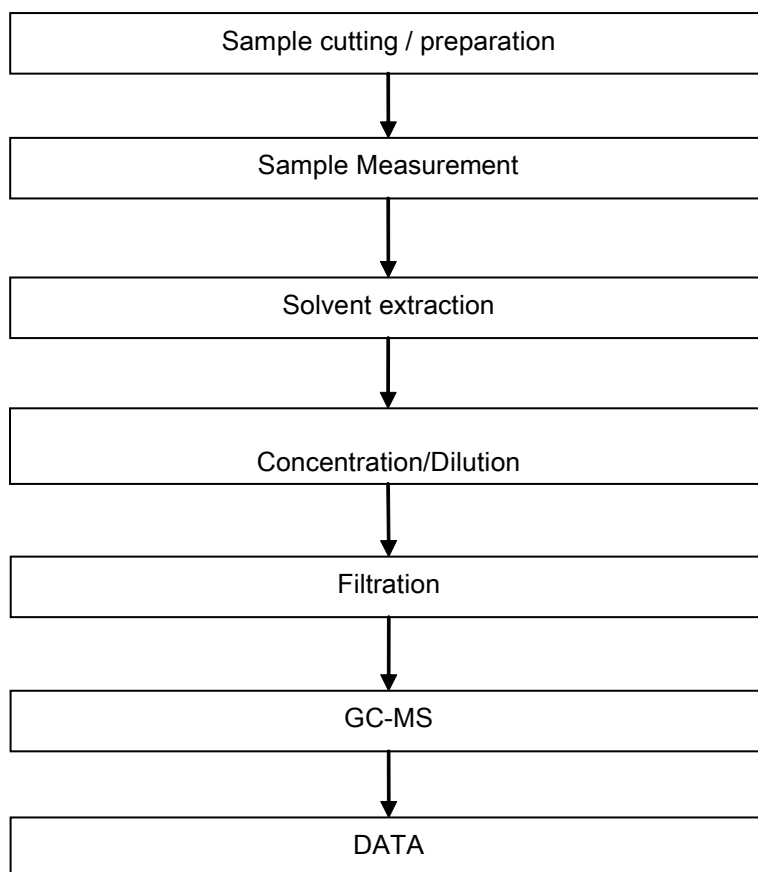
- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



## ATTACHMENTS

### Phthalates Testing Flow Chart

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



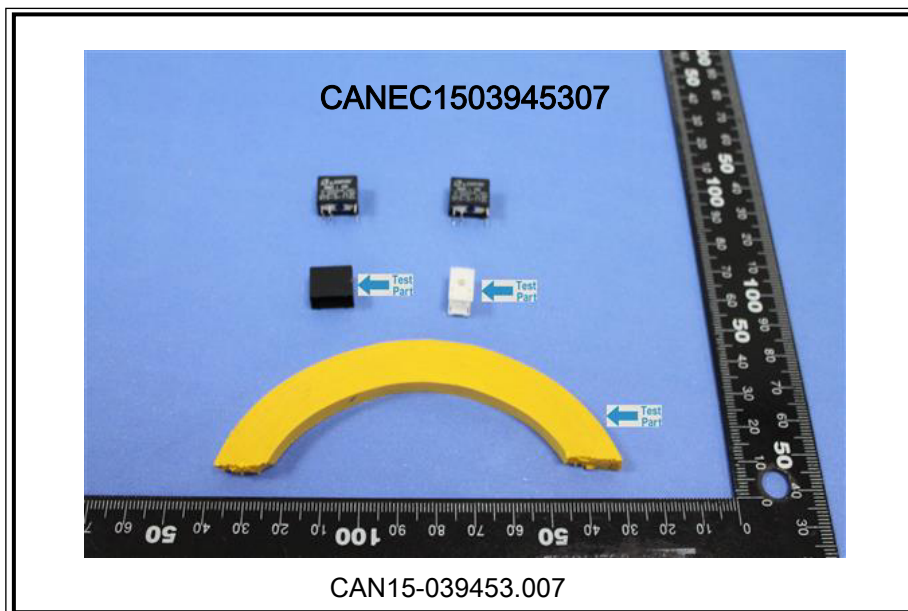
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Sample photo:



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