

**Test Report** No. SHAEC1518982207 Date: 30 Sep 2015 Page 1 of 21

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: Au Bonding Wire

SGS Job No. : SP15-031404 - SH

Date of Sample Received: 17 Sep 2015

Testing Period: 17 Sep 2015 - 30 Sep 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).

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. 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.

Marry Ma

Approved Signatory





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Test Results:

### Test Part Description:

Specimen No. SGS Sample ID Description
SN1 SHA15-189822.001 Golden wire

#### 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 EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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	
Di-butyl Phthalate (DBP)	1000	mg/kg	30	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	30	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	30	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	30	ND	

#### Notes:

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

#### <u>Halogen</u>

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

#### Element(s)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND
Antimony trioxide (Sb <sub>2</sub> O <sub>3</sub> )◆	mg/kg	12	ND
Beryllium oxide (BeO) ◆	mg/kg	15	ND



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Notes:

(1) ◆ Calculated concentration of BeO is based on the identified Be Calculated concentration of Sb₂O₃ is based on the identified Sb

#### Organic-tin compounds

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tributyl tin (TBT)	mg/kg	0.02	ND
Triphenyl tin (TPhT)	mg/kg	0.02	ND
Tributyl Tin Oxide (TBTO) ◆	mg/kg	0.02	ND
Dibutyl tin (DBT)	mg/kg	0.02	ND
Dioctyl tin (DOT)	mg/kg	0.02	ND
Tripropyltin (TPT)	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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</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-chlorinaed Naphthalene	mg/kg	5	ND
1-Chlorinated Naphthalene	mg/kg	5	ND

#### Short Chained Chlorinated Paraffin (SCCP) and Meduim Chained Chlorinated Paraffin (MCCP)

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



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Test Item(s)UnitMDL001Short Chained Chlorinated Paraffin (SCCP)mg/kg50ND(C10-C13)mg/kg50NDMedium Chained Chlorinated Paraffin (MCCP)mg/kg50ND

(C14-C17)

#### Tetrabromobisphenol A (TBBP-A)

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

 Test Item(s)
 Unit
 MDL
 001

 Tetrabromobisphenol A (TBBP-A)
 mg/kg
 10
 ND

#### **Red Phosphorus**

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

Pyrolysis-GC/MS

 Test Item(s)
 Unit
 MDL
 001

 Red Phosphor
 mg/kg
 500
 ND

#### **PVC (Polyvinyl chloride)**

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

 Test Item(s)
 CAS NO.
 Unit
 MDL
 001

 PVC
 9002-86-2
 Negative

Notes:

(1) Negative=Undetectable,Positive=Detectable

#### Bisphenol-A

Test Method: Extraction by organic solvent, analysis by HPLC-DAD-MS.

 Test Item(s)
 Unit
 MDL
 001

 Bisphenol-A
 mg/kg
 1
 ND



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# 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.

 Test Item(s)
 Limit
 Unit
 MDL
 001

 Dimethyl fumarate(DMF)
 0.1
 mg/kg
 0.1
 ND

#### Polychlorinated Terphenyls (PCTs)

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

 Test Item(s)
 Unit
 MDL
 001

 Aroclor 5432
 mg/kg
 5
 ND

 Aroclor 5442
 mg/kg
 5
 ND

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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane Sulfonates (PFOS) and related Acid, Metal Salt and Amide	1000	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA)	-	mg/kg	10	ND

#### Notes:

Max. limit specified by commission regulation (EU) No. 757/2010 amending regulation (EC) No 850/2004.

#### Polychlorinated Biphenyls (PCBs)

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

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</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



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Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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**

Test Method: With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Diisononyl Phthalate (DINP)	28553-12-0	%	0.01	ND
	/68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	%	0.01	ND
	/68515-49-1			

#### Hexabromocyclododecane (HBCDD)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND



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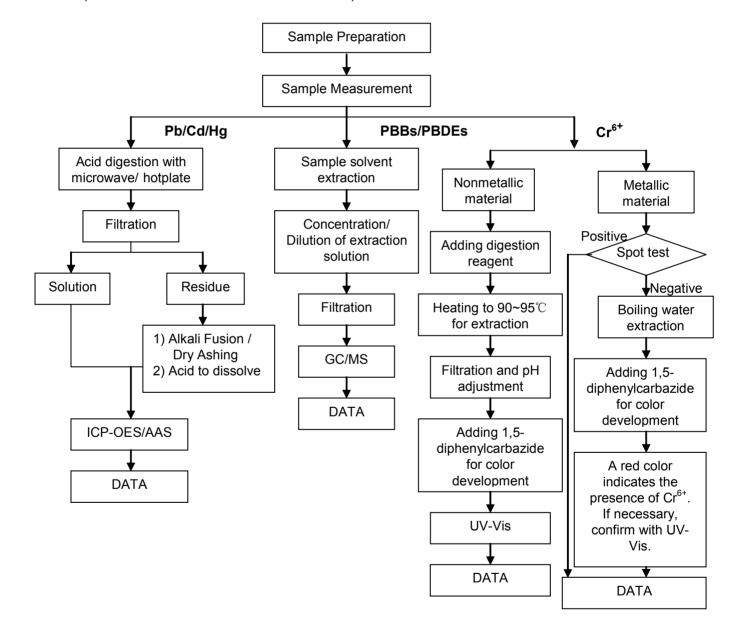
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#### **ATTACHMENTS**

### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bob Zhang/Gary Xu/Zengzhen Zhu/Sunny Qin
- 2) Name of the person in charge of testing: Jan Shi/Summer Jin/Jessy Huang/Stone Chen
- 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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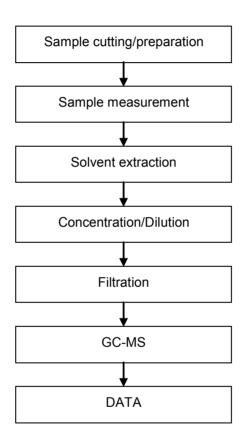
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#### **ATTACHMENTS**

### **Phthalates Testing Flow Chart**

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







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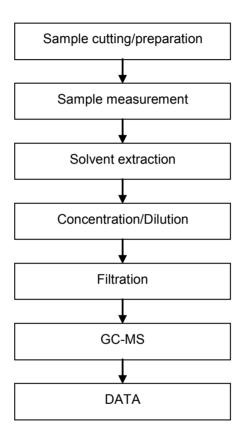
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#### **ATTACHMENTS**

### **HBCDD Testing Flow Chart**

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







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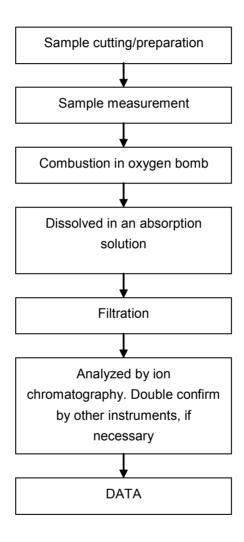
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#### **ATTACHMENTS**

### Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Sisily Yin
- 2) Name of the person in charge of testing: Linda Li







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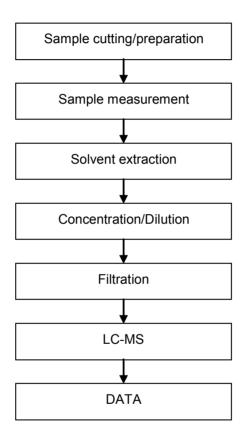
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#### **ATTACHMENTS**

### **PFOS/PFOA Testing Flow Chart**

- 1) Name of the person who made testing: Jane Yang
- 2) Name of the person in charge of testing: Myra Ma







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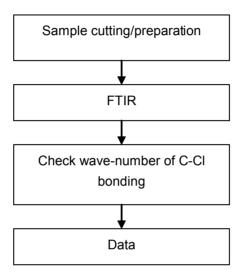
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### **PVC Testing Flow Chart**

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







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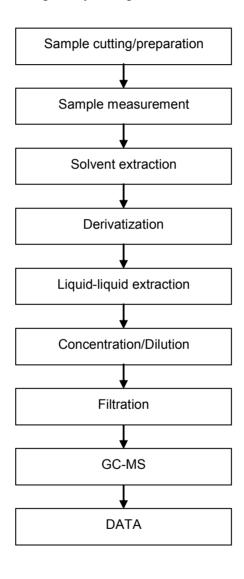
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#### **ATTACHMENTS**

### **Organotin Testing Flow Chart**

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







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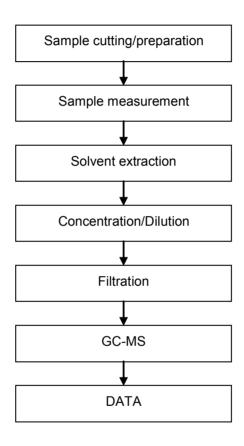
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#### **ATTACHMENTS**

### PCB/ PCT/ PCN Testing Flow Chart

- 1) Name of the person who made testing: Brin Feng
- 2) Name of the person in charge of testing: Chaven Lian







No. SHAEC1518982207

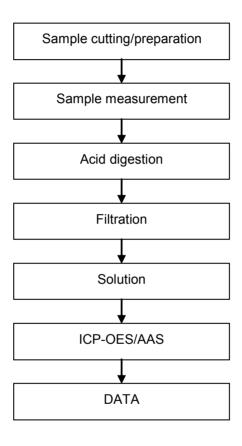
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#### **ATTACHMENTS**

### **Elements Testing Flow Chart**

- 1) Name of the person who made testing: Bob Zhang/Sunny Qin
- 2) Name of the person in charge of testing: Summer Jin/Jan Shi







No. SHAEC1518982207

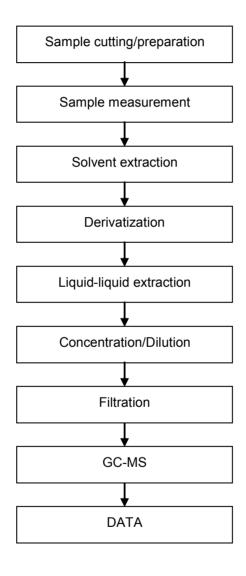
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#### **ATTACHMENTS**

### **TBBP-A Testing Flow Chart**

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







No. SHAEC1518982207

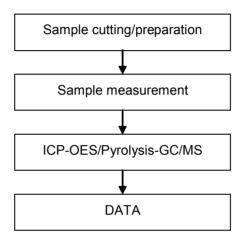
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#### **ATTACHMENTS**

### **Red Phosphorus Testing Flow Chart**

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







No. SHAEC1518982207

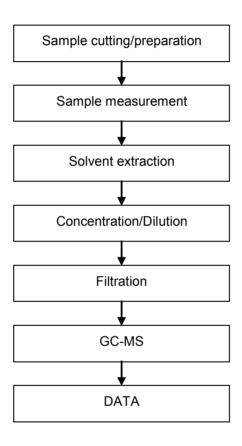
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#### **ATTACHMENTS**

### **DMF (Dimethyl fumarate) Testing Flow Chart**

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







No. SHAEC1518982207

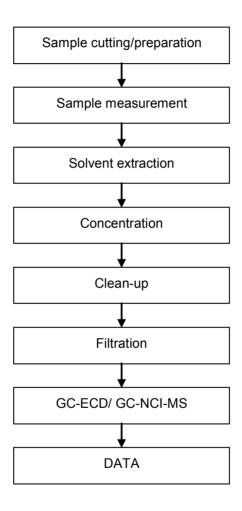
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#### **ATTACHMENTS**

### SCCP/MCCP Testing Flow Chart

- 1) Name of the person who made testing: Brin Feng
- 2) Name of the person in charge of testing: Chaven Lian







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Sample photo:



SGS authenticate the photo on original report only

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

