

Test Report No. SHAEC1707019803 Date: 25 Apr 2017 Page 1 of 12

SHENZHEN PUNUO INDUSTRIAL CO.LTD.

SHENZHEN CITY, FUTIAN DISTRICT HUAQIANG NORTH STREET HUAQIANG NORTH ROAD, SHENZHEN TEXTILE BUILDING 18 FLOOR B BLOCK 1803

The following sample(s) was/were submitted and identified on behalf of the clients as : DIODE(Axial type, SMD type, Bridge type,TO-type)

SGS Job No. : SP17-010646 - SH

Client Ref. Information: Epoxy; Glue; Lead wire/frame; GPP,OJ,SKY chip; Solder bar, Ink, Solder

chip/Solder paste; DIODE(Axial type, SMD type, Bridge type, TO-type)

Date of Sample Received: 12 Apr 2017

Testing Period: 12 Apr 2017 - 21 Apr 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 (Shanghai) Co., Ltd.

Marry Ma

Approved Signatory



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA17-070198.001	Silver chip
SN2	SHA17-070198.002	Grey liquid
SN3	SHA17-070198.003	Black solid
SN4	SHA17-070198.004	White liquid
SN5	SHA17-070198.005	Copper metal
SN6	SHA17-070198.006	Silver metal
SN7	SHA17-070198.007	Silver metal

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 and AAS.

(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 Ed.1.0 (111/321/CD), determination of phthalates by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND	ND	ND
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</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			
Monobromodiphenyl ether	-	mg/kg	5	ND			



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	
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	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
- (2) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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 and AAS.
- (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
- (4)With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.



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Hexavalent Chromium (Cr(VI))▼

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>006</u>	<u>007</u>		
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND		
Lead (Pb)	1000	mg/kg	2	ND		5		

1000

Notes:

Mercury (Hg)

(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

mg/kg

µg/cm²

2

0.10

ND

ND

ND

ND

ND

ND

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10 \,\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² 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.

Lead

Test Method: Titration method

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Lead (Pb)	0.1	%	-	92.47▲

Notes:

According to the declaration from the client, Lead (Pb) in No.006 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Remark:

For sample 002,004:Result shown is of the total weight of wet sample.



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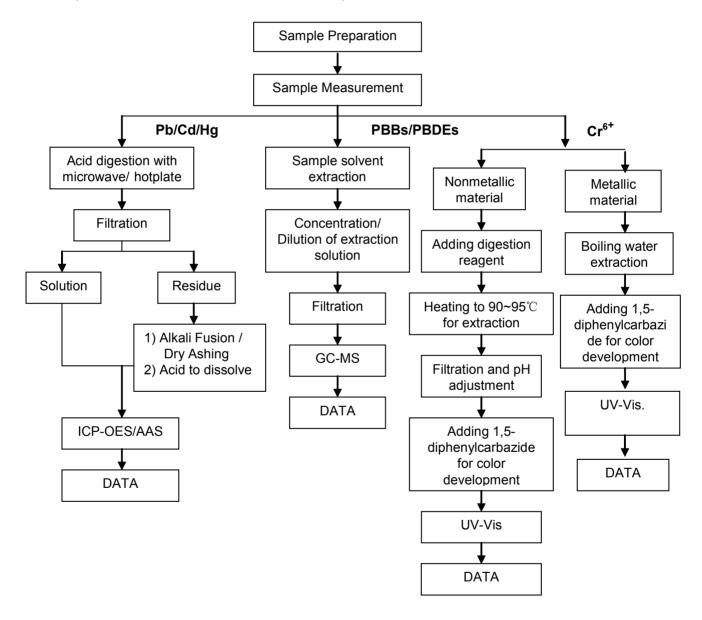
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Gary Xu/Sean Li/Sielina Song
- 2) Name of the person in charge of testing: Jan Shi/Jessy Huang/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)





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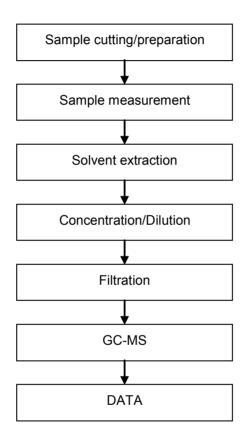
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Phthalates Testing Flow Chart

- 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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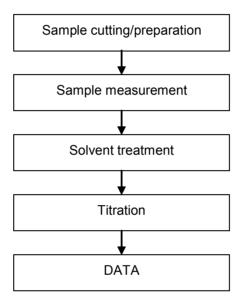
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Titration Testing Flow Chart

1) Name of the person who made testing: Hassan Xu

2) Name of the person in charge of testing: Kevin Wang





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Sample photo:







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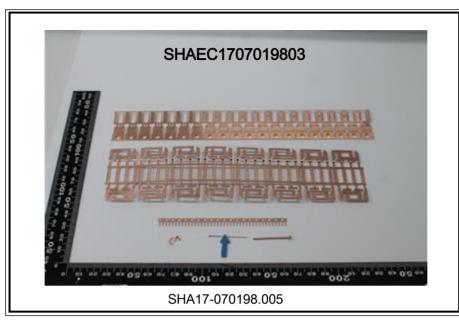
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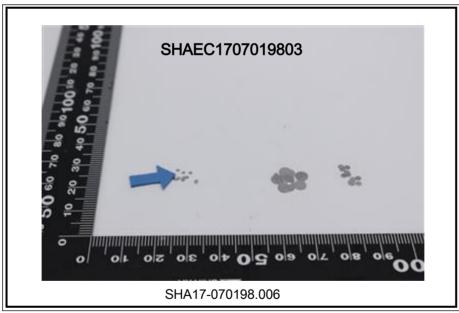
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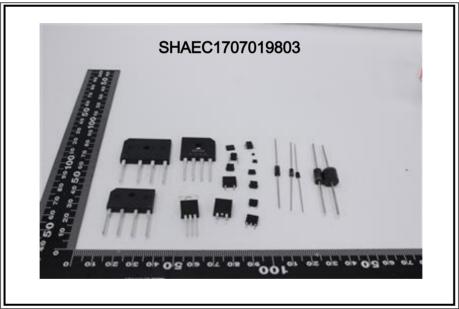
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