

test report

No. SHAEC1715551704 Date: 08 January 2017 Page 1 of 5

The samples for the following tests were provided and confirmed by the applicant: Red ink

SGS work number: SP17-026600 - SH
lot number : AA000022
Material name: printing ink
Sample receipt date: 05 January 2017
Test period: 5 January 2017-8 January 2017
Test requirements: Test as requested by the customer
test method : See next page
test result : See next page

Conclusion : Based on the tests conducted on the submitted samples, the results for cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyls were as follows:

The test results of PBDE (perfluorinated biphenyl ether) comply with the limit requirements specified in Appendix II of the EU's revised Directive 2011/65/EC, which is a revision of the original RoHS Directive 2002/95/EC.

Tongbiao Standard Technology Service Co., Ltd.

Authorize signature



Fan Jingjie, JJ Fan Jingjie

approved signatory

This report is the Chinese translation of the English test report numbered SHAEC1715551704, issued on January 8, 2017. In case of any discrepancy, the English version shall prevail.

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test report

No. SHAEC1715551704 Date: 08 January 2017 Page 2 of 5

test result :

Test sample description:

Sample number	SGS sample ID	description
1	SHA17-155517. 002 BlueLiquid	

remarks :

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

RoHS Directive 2011/65/EU

Test method: with reference to IEC 62321:2008.

- (1) The content of cadmium was determined by ICP-OES.
- (2) The lead content was determined by ICP-OES.
- (3) The mercury content was determined by ICP-OES.
- (4) The content of hexavalent chromium was determined by UV-visible spectrophotometry.
- (5) The contents of PBBs and PBDEs were determined by GC-MS.

Test item	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 (CrVI)	1000	mg/kg	2	ND
Total Polychlorinated Biphenyls (PBBs)	1000	mg/kg	-	ND
1-bromo biphenyl	-	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
Total polybrominated diphenyl ethers (PBDEs)	1000	mg/kg	-	ND
1-bromo diphenyl ether	-	mg/kg	5	ND

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test report

No. SHAEC1715551704 Date: 08 January 2017 Page 3 of 5

Test item	Limit	Unit	MDL	002
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetra-bromobiphenyl 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 oxide	-	mg/kg	5	ND

remarks :

(1) The maximum allowable limit value is referenced from Annex II of Directive 2011/65/EU.

halogen

Test method: The method was determined according to EN 14582:2007, and the analysis was carried out by IC.

test item	Unit	MDL	002
fluorine (F)	mg/kg	50	ND
chlorine (Cl)	mg/kg	50	ND
bromine (Br)	mg/kg	50	ND
iodine (I)	mg/kg	50	ND

Note: The results shown represent the content in the total weight of the wet sample.

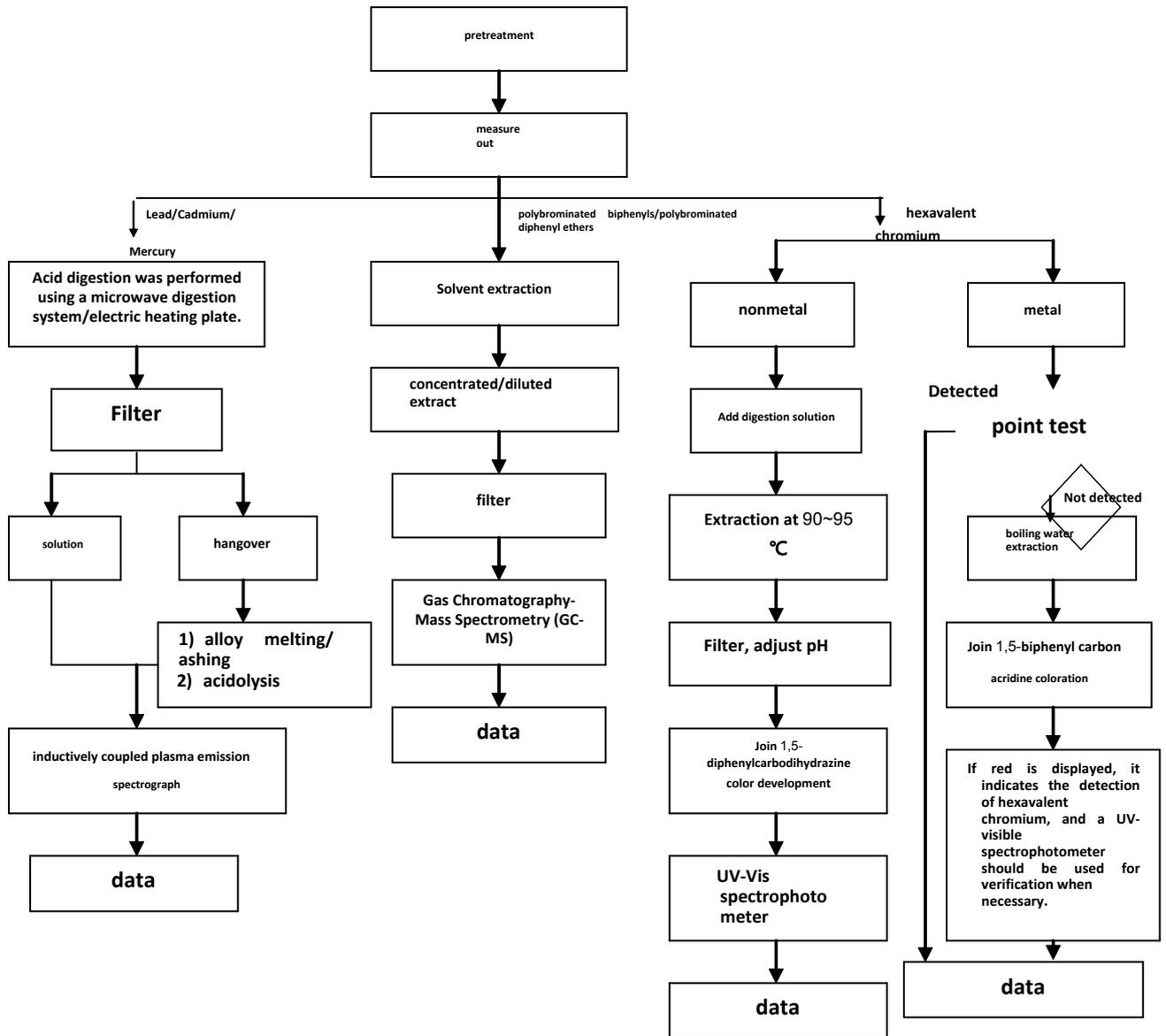
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appendix

RoHS Test Flowchart

- 1) Analyst: Shi Qing/Wang Yanqing/Xiao Fei/Xu Gang
- 2) Project Leader: Zhang Chunhua, Xu Liang, Li Dan
- 3) The samples were fully digested according to the following procedure (except for hexavalent chromium and polybrominated biphenyls/polybrominated diphenyl ethers testing).

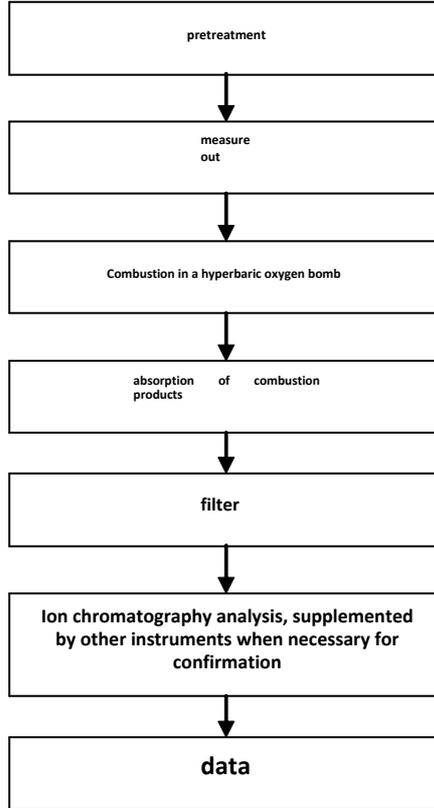


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Halogen Test Flowchart

- 1) Analyst: Yin Yu
- 2) Project Leader: Yu Jinhui



SGS original report

*Report finished

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