

SCL01I104829003 Report No.

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**Applicant** 

SURPASS PRINTED CIRCUIT BOARD

Address

CHIGANG INDUSTRIAL ZONE HANGANG ROAD NUMBER 669 PU TIAN FU

JIAN CHINA

The following sample(s) and sample information was/were submitted and identified by/on the

behalf of the client

Sample Name HASL PCB Part No. SS-DS-MS Material FR4

Nov. 21, 2016 Sample Received Date

Nov. 21, 2016 to Nov. 25, 2016 **Testing Period** 

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), **Test Requested** 

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs),

Polybrominated Diphenyl Ethers(PBDEs), Phthalates(DBP, BBP, DEHP,

DIBP) in the submitted sample(s).

**Test Method** Please refer to the following page(s).

Test Result(s) Please refer to the following page(s)

Danny Liu Technical Manager tre lesting International Group Co.,Ltd.

Date

Nov. 25, 2016

No. R249681285

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates(DBP, BBP, DEHP, DIBP)	Refer to IEC 62321-8 CDV	GC-MS

## Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)	C.	
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg





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Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers(PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Phthalates		,
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butylbenzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

**Tested Sample/Part Description** 

PCB(Tested as a whole)

### Remark:

- -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
- -The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.
- -MDL = Method Detection Limit
- -N.D. = Not Detected (< MDL)
- -mg/kg = ppm = parts per million



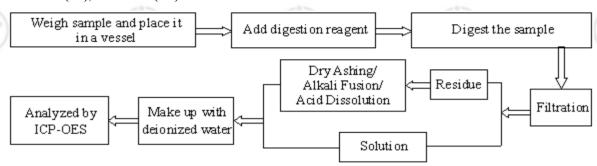


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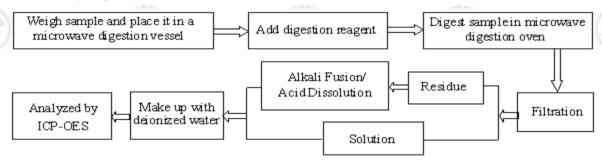
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#### **Test Process**

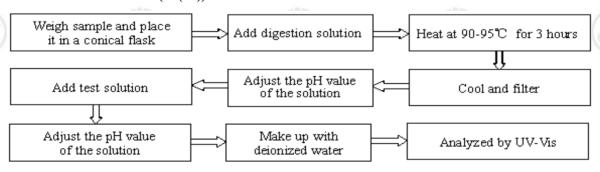
#### 1. Lead (Pb), Cadmium (Cd)



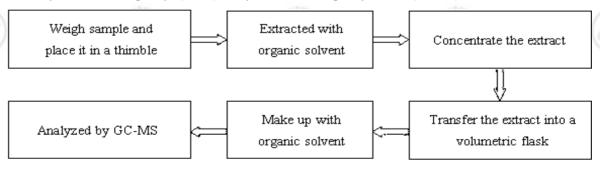
#### 2. Mercury (Hg)



### 3. Hexavalent Chromium(Cr(VI))

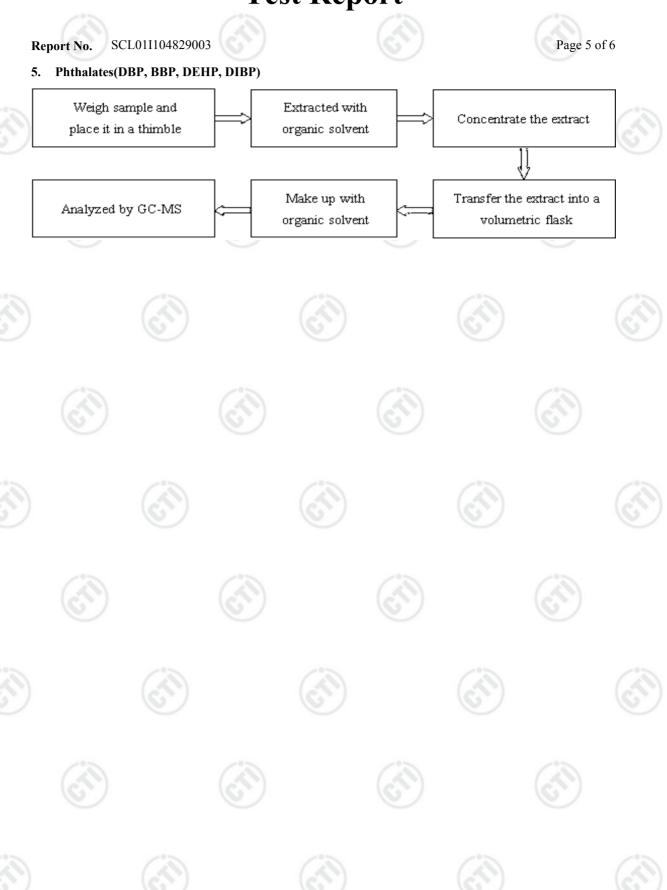


### 4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)









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# Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

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