



## Test Report

No.: GZ0706084277/CHEM

Date: JUN 21, 2007

Page 1 of 3

RED BOARD (DONGGUAN) LTD  
REDBOARD AVENUE, SAME TIME ROAD, CHUNG-TOU ZONE, CHANG-AN TOWN, DONGGUAN, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as Lead Free HASL printed circuit board


SGS Ref No. : SZ10423012  
Sample Receiving Date : JUN 15, 2007  
Testing Period : JUN 15, 2007 TO JUN 21, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Jiang YongPing, Terry  
Sr. Engineer

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GZCM 1417220

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	4	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
<b>Sum of PBBs</b>	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
<b>Sum of PBDEs</b>		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether	N.D.	5	
Decabromodiphenyl ether	N.D.	5	

**Test Part Description:**

No.1 Green "PCB" (mixed)

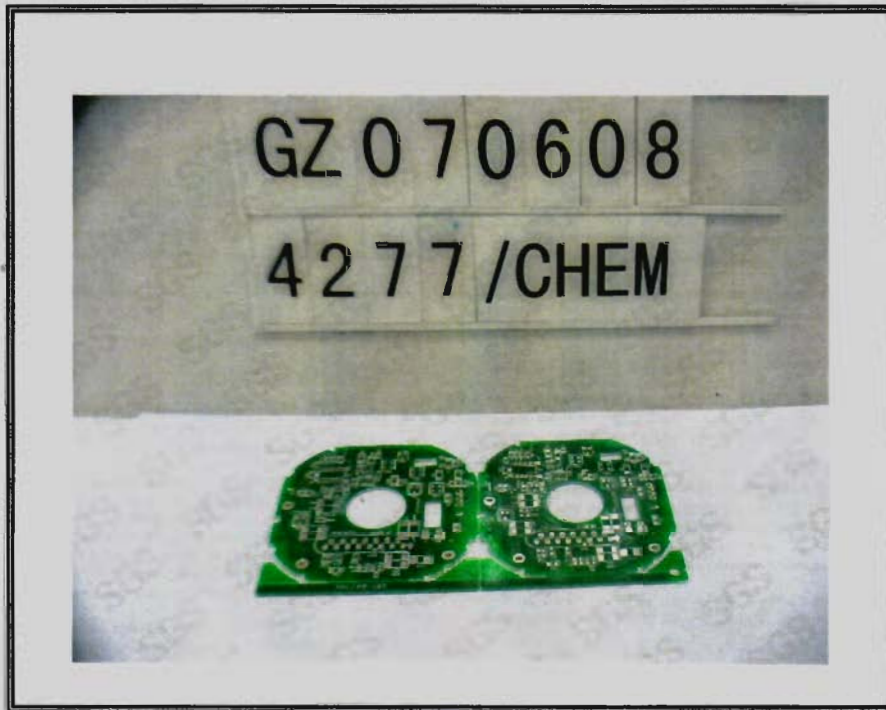
- Note :
1. mg/kg = ppm
  2. N.D. = Not Detected (< MDL)
  3. MDL = Method Detection Limit
  4. "-" = Not regulated

Remark : As requested by client, the testing was conducted as whole / part sample.

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**GZCM 1417221**

Sample photo :



SGS authenticate the photo on original report only

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

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