



Test Report

No.: GZ0702018286/CHEM

Date: FEB 09, 2007

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HOIHO ELECTRONIC COMPONENTS CHINA LTD

NAN LANG INDUSTRIAL ZONE, NAN LANG TOWN, ZHONG SHAN CITY, GUANGDONG PROVINCE, PR CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PCB

Client Reference: Multi-layer Gold plating, Immersion Gold, OSP, lead-free HAL PCB (Included FR-4 laminate, Copper, Nickel, Lead-free Tin, OSP, Solder Mask, Legend Ink, Carbon Ink, Peelable mask) $\leq 2.4\text{MM}$

SGS Ref No. : GZ10253211EC-10.4

Sample Receiving Date : FEB 05, 2007

Testing Period : FEB 05, 2007 TO FEB 09, 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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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)	5	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs	(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
Sum of PBDEs		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 board w/ multicolor surface (mixed)

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. “-” = Not regulated

5. Results of this report refer to test report GZ0702018285/CHEM

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

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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***