



Test report

No.: CHE11-MAE100881R

Date: July 11, 2013

Page 1 of 5

XXXXXX

XXXXXX, XXXXXX, XXXXXX

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

PCB

EBO Job No. : CHE11-MAE100881R

Date of Sample Received : July 4, 2013

Testing Period : July 4, 2013 - July 11, 2013

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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU.

Signed for and on behalf of

Kevin Yu



EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Test report**No.: CHE11-MAE100881R****Date: July 11, 2013****Page 2 of 5****Test Results:**Test Part Description:

Specimen No.	EBO Sample ID	Description
1	CHE11-MAE100881R.001	PCB board

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) N.D. = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>Result</u>	<u>MDL</u>	<u>Limit</u>
Cadmium (Cd)	mg/kg	N.D.	2	100
Lead (Pb)	mg/kg	N.D.	2	1000
Mercury (Hg)	mg/kg	N.D.	2	1000
Hexavalent Chromium Cr(VI)	mg/kg	N.D.	2	1000
Sum of PBBs	mg/kg	N.D.	-	1000
Monobromobiphenyl	mg/kg	N.D.	5	-
Dibromobiphenyl	mg/kg	N.D.	5	-
Tribromobiphenyl	mg/kg	N.D.	5	-
Tetrabromobiphenyl	mg/kg	N.D.	5	-
Pentabromobiphenyl	mg/kg	N.D.	5	-
Hexabromobiphenyl	mg/kg	N.D.	5	-
Heptabromobiphenyl	mg/kg	N.D.	5	-
Octabromobiphenyl	mg/kg	N.D.	5	-
Nonabromobiphenyl	mg/kg	N.D.	5	-
Decabromobiphenyl	mg/kg	N.D.	5	-

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

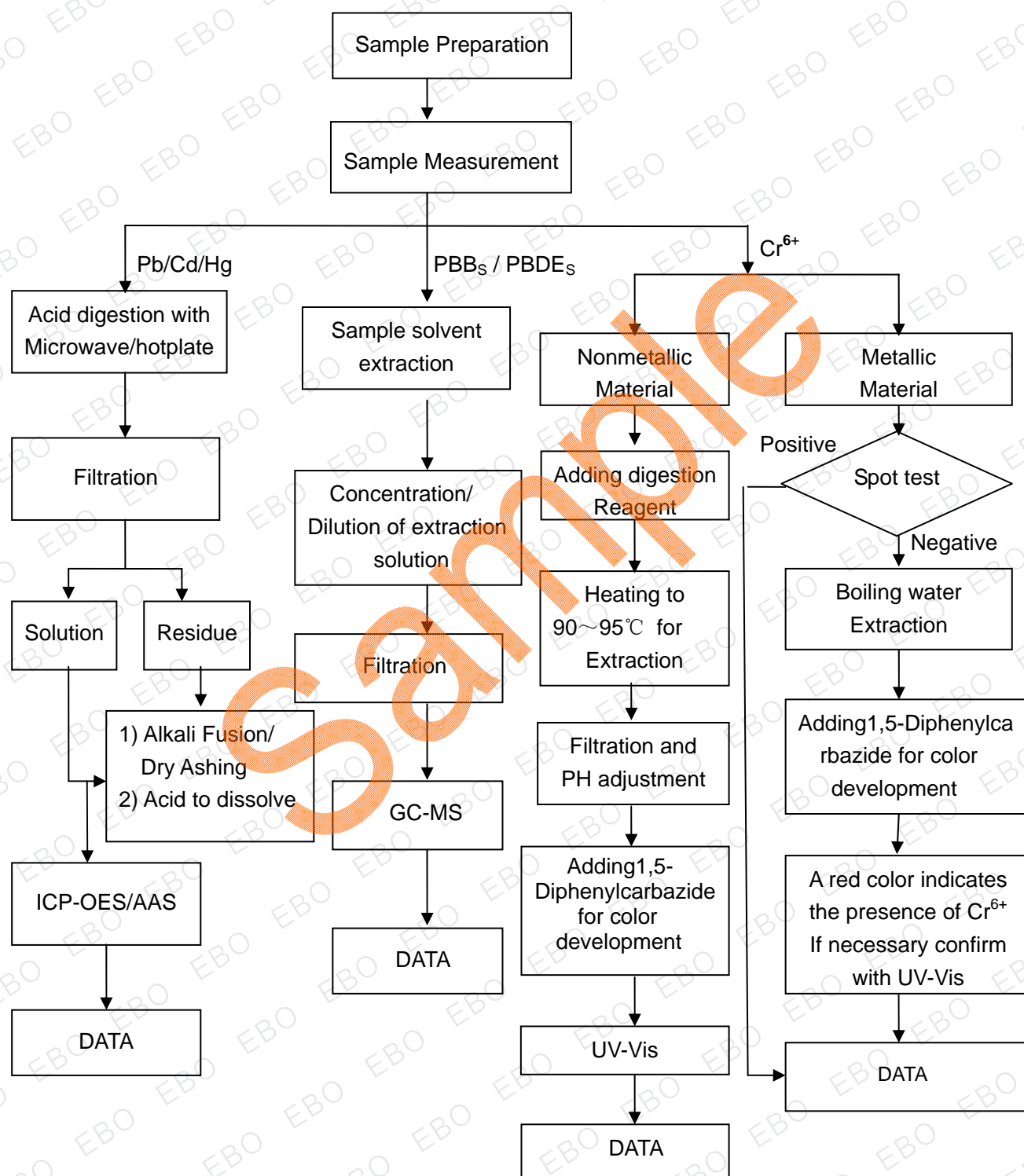
<u>Test Item(s)</u>	<u>Unit</u>	<u>Result</u>	<u>MDL</u>	<u>Limit</u>
Sum of PBDEs	mg/kg	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	N.D.	5	-
Dibromodiphenyl ether	mg/kg	N.D.	5	-
Tribromodiphenyl ether	mg/kg	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	N.D.	5	-
Octabromodiphenyl ether	mg/kg	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	N.D.	5	-
Decabromodiphenyl ether	mg/kg	N.D.	5	-

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU.

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Testing Flow Chart



EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Test report**No.: CHE11-MAE100881R****Date: July 11, 2013****Page 5 of 5****Sample photo:****No. CHE11-MAE100881R**

EBO authenticate the photo on original report only

***** END OF REPORT *****

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.