

Test Report No. 2214582

Date : 20-Apr-2012

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Client : Electronics Industry Public Company Limited
65, 68 Soi Chalongsong 31, I-EA-T Free Zone Lat Krabang Industrial Estate,
Lat Krabang, Bangkok 10520 Thailand

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

Sample Description : WAFER OPP
 Sample No. : 2283202
 Sample Condition : Sample is contained in plastic bag.
 Quantity Submitted : 20 g
 Batch/Lot No. : GT11010606-1
 Country of Origin : THAILAND
 Country of Destination : THAILAND

Sample Receiving Date : 17-Apr-2012
 Testing Period : 17-Apr-2012 to 20-Apr-2012

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II ; recasting 2002/95/EC

Test Method : (1) With reference to IEC 62321:2008 for Lead content, Analysis was performed by ICP-OES.
 (2) With reference to IEC 62321:2008 for Cadmium content, Analysis was performed by ICP-OES.
 (3) With reference to IEC 62321:2008 for Mercury content, Analysis was performed by ICP-OES.
 (4) With reference to IEC 62321:2008 for Hexavalent Chromium by Alkaline Digestion / Colorimetric Method, Analysis was performed by UV-Vis Spectrometry.
 (5) With reference to IEC 62321:2008 for PBB/PBDE content, Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS (Thailand) Limited



Pornpana Lirathpong
Hardlines Testing Manager

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	2	1000

Test Part Description
Result (1) mixed all parts

Note :

(a) mg/kg = ppm ; 0.1wt% = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) Test done on client submitted sample

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
sum of PBBs	(5)	n.d.	-	1000
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	-

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
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

Result (1) mixed all parts

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) "-" = Not regulated
- (e) Test done on client submitted sample

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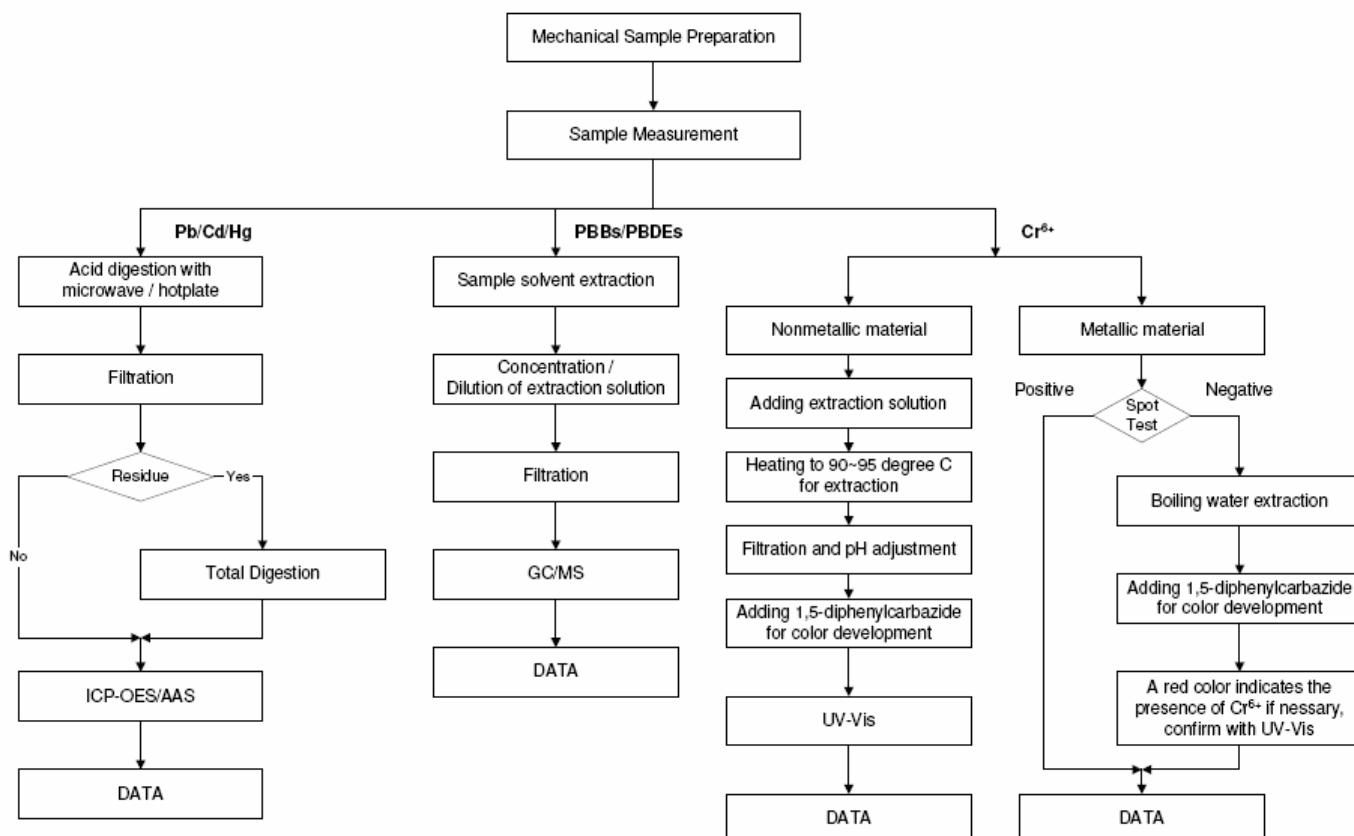
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Flow Chart for RoHS : Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing

1. Operator : Siam Polarwut

2. Section Chief : Laddawan Uranpitr

3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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SAMPLE/ATTACHMENT PICTURE



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

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