

No.: KA/2014/91591 Date: 2014/10/03

MINMAX TECHNOLOGY CO.,LTD NO. 18, SIN-SIN ROAD, AN-PING INDUSTRIAL DISTRICT, TAINAN 702 TAIWAN

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

: DC/DC CONVERTER Sample Description Style/Item No. : MCWI03-XXXXX SERIES

Sample Receiving Date : 2014/09/26

**Testing Period** : 2014/09/26 TO 2014/10/03

: MINMAX TECHNOLOGY CO.,LTD Sample Submitted By

: As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to **Test Requested** 

determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted

sample.

: Please refer to next pages. **Test Method** Please refer to next page(s). Test Result(s)

> Ray Chang / Asst. Manage Signed for and on behalf

**SGS Taiwan Limited** 

Chemical Laboratory-Kaohsiung

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### Test Result(s)

PART NAME No.1 : MIXED ALL PARTS:DC/DC CONVERTER

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	7.62
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

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#### Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

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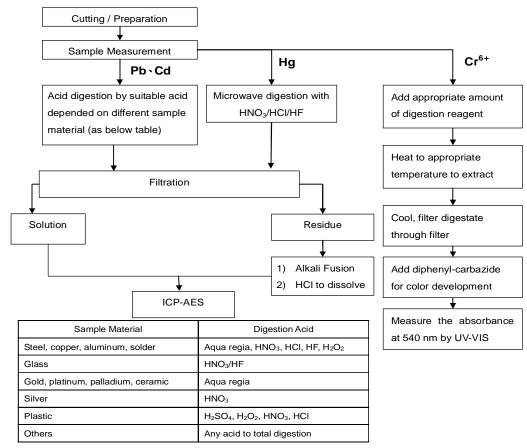
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- Name of the person who made measurement: Jony Liu
- 3) Name of the person in charge of measurement: Ray Chang



Note\*\*: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95

(2) For metallic material, add pure water and heat to boiling.

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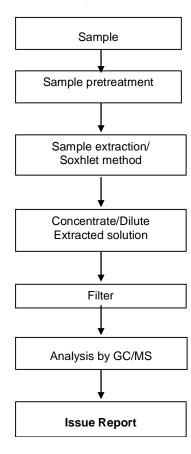


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### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Dorothy Chen
- 2) Name of the person in charge of measurement: Ray Chang



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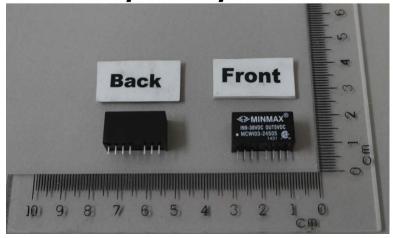


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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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