

**Test Report** No. : CE/2009/36741A Date : 2009/06/02

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BOURNS INC. 1200 COLUMBIA AVE., RIVERSIDE, CA 92507-2114, USA

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

Sample Description Style/Item No.	:	SHIELDED SMD POWER INDUCTOR PM42S, PM428S, PM518S, PM528S, PM628S, PM105SB, PM3316S, PM124SH, PM125SH, PM127SH, PM1608S, PM5022S, PM7032S, PM74SH, PM104SH, SRR4018, SRR4028, SRR5018, SRR5028, SRR6028, SRR0905, SRR1005, SRR1240, SRR1260, SRR1280, SRR6603, SRR1806, SRR7032, SRR7045, SRU1038 SERIES
Sample Receiving Date Testing Period	:	2009/03/24 2009/03/24 TO 2009/03/31

In accordance with the RoHS Directive 2002/95/EC, and its amendment **Test Requested** directives.

**Test Method** 

With reference to IEC 62321: 2008 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.
- (5) Determination of PBB and PBDE by GC/MS.

Test Result(s) 2 Please refer to next page(s).

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Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei

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

Test Item (s):	Method	Result	MDL
Test item (s).	(Refer to)	No.1	WIDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by	(4)	n.d.	2
alkaline extraction			
Sum of PBBs		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	(5)	n.d.	5
Sum of PBDEs	(5)	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

MIXED ALL PARTS (FOURTEEN TYPES) :

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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GS Taiwan Ltd

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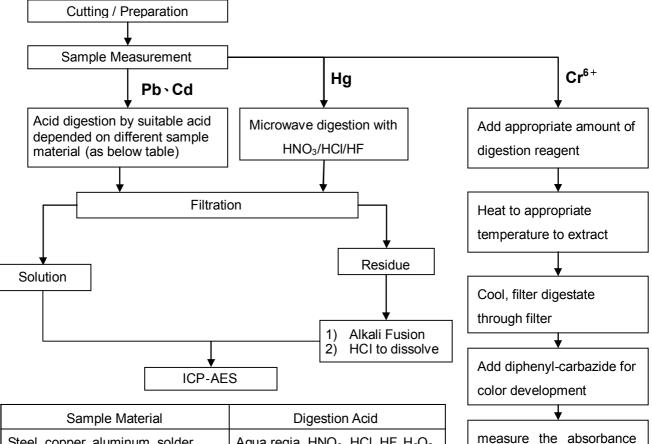


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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid	
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCI, HF, H <sub>2</sub> O <sub>2</sub>	
Glass	HNO₃/HF	
Gold, platinum, palladium, ceramic	Aqua regia	
Silver	HNO <sub>3</sub>	
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCI	
Others	Any acid to total digestion	

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at 540 nm by UV-VIS

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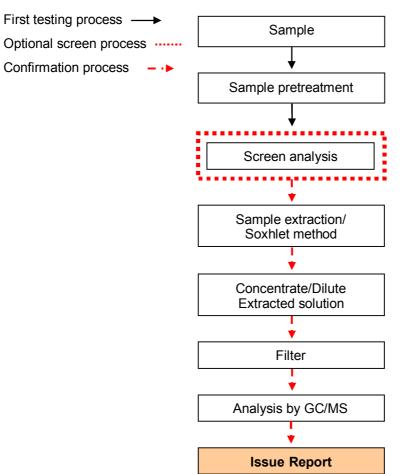
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## **PBB/PBDE analytical FLOW CHART**

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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BOURNS INC. 1200 COLUMBIA AVE., RIVERSIDE, CA 92507-2114, USA CE/2009/36741 0 luntur during 2cm







\*\* End of Report \*\*

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