



# Test Report

NO.: ASZ09052007202

Date: Jun 01, 2009

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**Customer:** Shenzhen Bencent Electronics Co. , Ltd.

**Address:** 2F, Building 1, Pingshan Minqi Science&Technology Park, Xili, Nanshan, Shenzhen, China

**Report on the submitted sample said to be**

**Sample name:** Transient voltage surge suppressors

**Model:** /

**Item/Lot No.:** QC-P1-09010013

**Material:** /

**Buyer:** Huawei、Foxconn、UT、askey、Daya etc.

**Supplier:** /

**Manufacturer:** /

**Sample received date:** May 20, 2009

**Testing period:** From May 20, 2009 to Jun 01, 2009

### Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

### Testing method:

With reference to IEC 62321:2008

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	IEC 62321, section 9/10	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321, section 9/10	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321, section 7	CV-AAS	2 mg/kg
Chromium (Cr VI)	IEC 62321, Annex B/C	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321, Annex A	GC-MS	5 mg/kg

### Conclusion:

-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

**Signed for AOV Ltd.**

Written by Breaky

Inspected by Wally

Approved by Jeanah Lu

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## **Shenzhen AOV Testing Technology Co., Ltd.**

**2-6/F, No.5, Yuantou Lane, Tanglang, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China**

Tel: 86-755-8600 8000 Fax: 86-755-8600 8282

Http: //www.aovt.com



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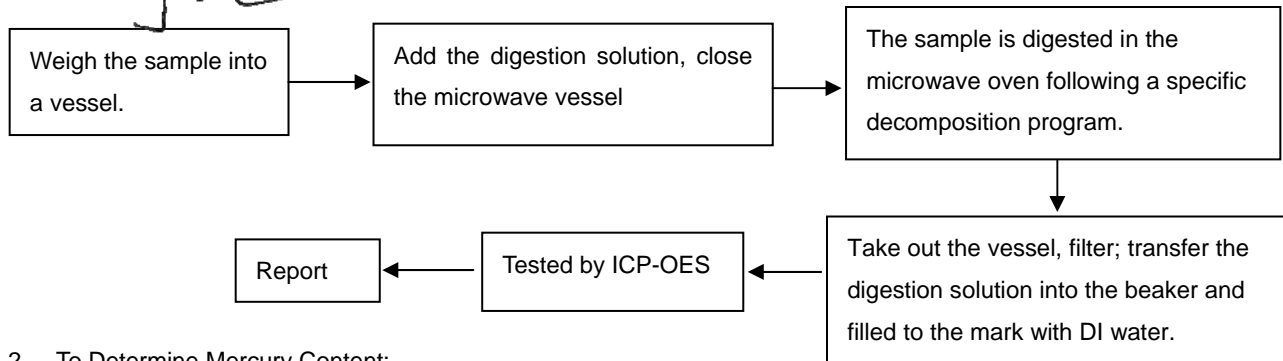
Date: Jun 01, 2009

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## Test Flow:

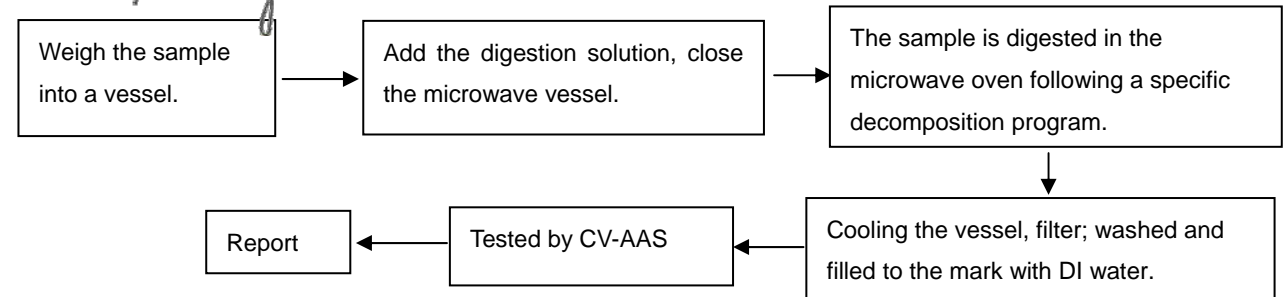
1. To Determine Lead, Cadmium Content (for Electronics):

Tested by: *Jure*



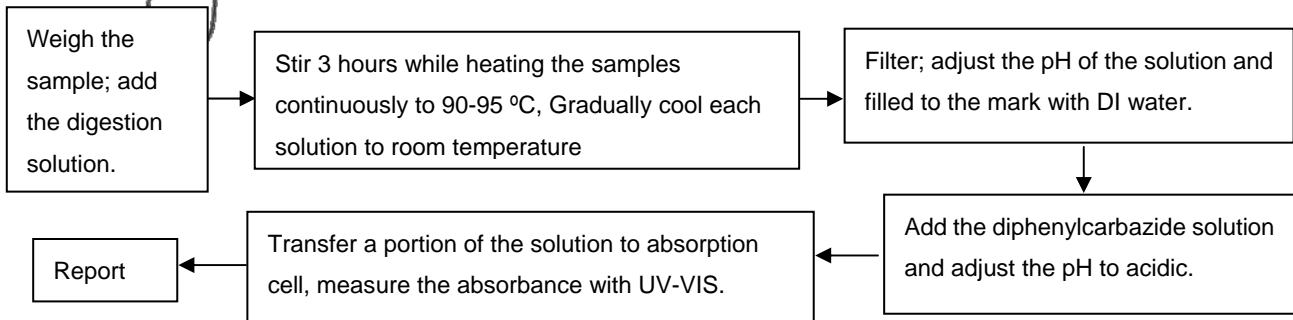
2. To Determine Mercury Content:

Tested by: *Rosary*



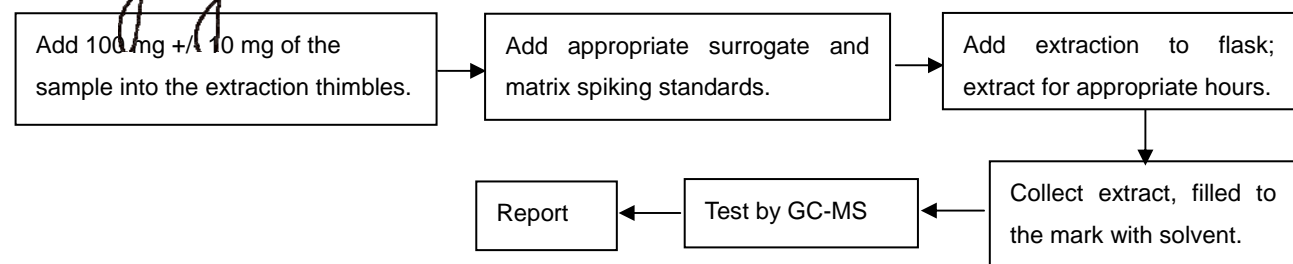
3. To Determine Hexavalent Chromium Content (for Electronics):

Tested by: *Gary*



4. To Determine PBBs/PBDEs Content:

Tested by: *Young*



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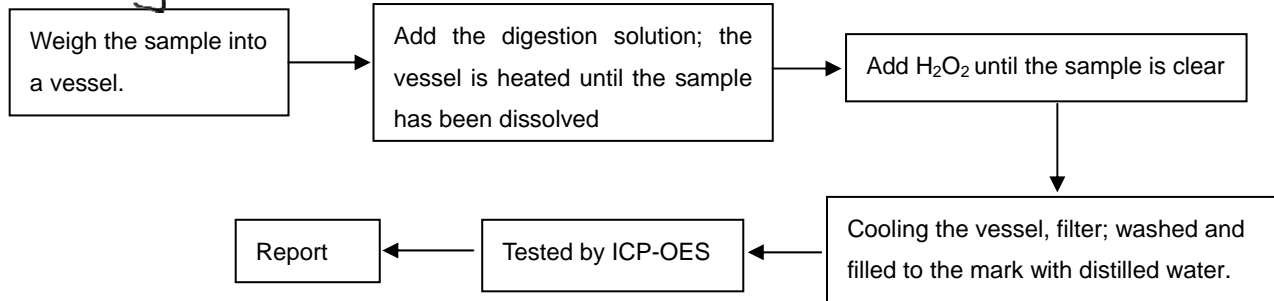
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5. To Determine Lead, Cadmium Content (for metal):

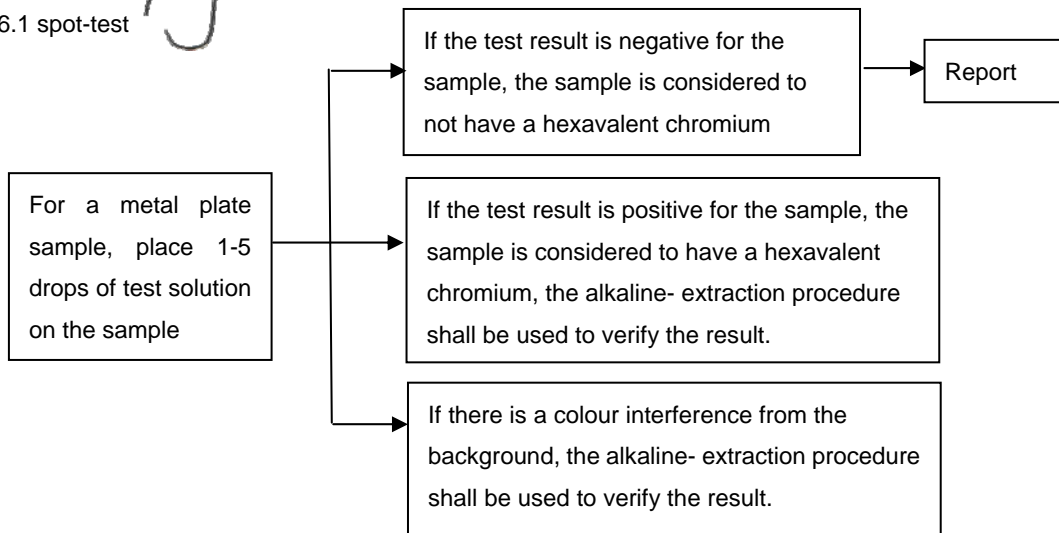
Tested by: *Jure*



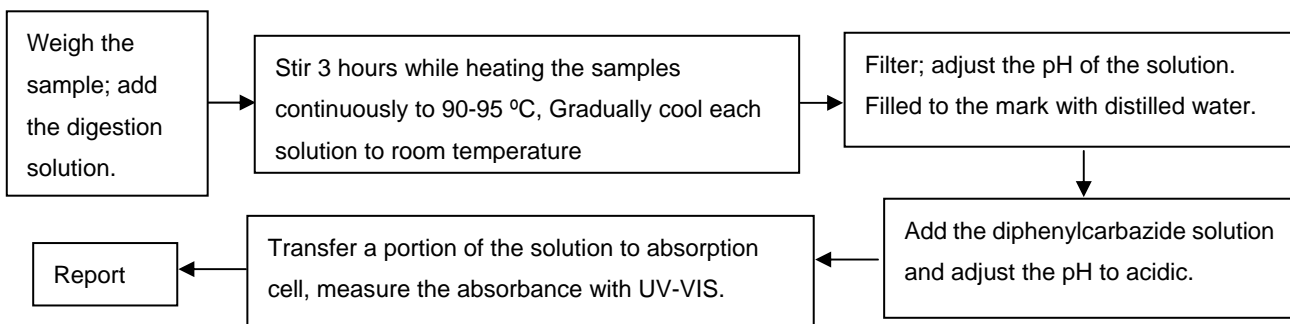
6. To Determine Hexavalent Chromium Content in metals:

Tested by: *Gary*

6.1 spot-test



6.2 alkaline- extraction Method



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## Test Results:

Item	Unit	RoHS Limit	A	B
Lead (Pb)	mg/kg	1000	60350.6 *	73.7
Cadmium (Cd)	mg/kg	100	N.D.	N.D.
Mercury (Hg)	mg/kg	1000	N.D.	N.D.
Chromium(CrVI) by spot test	/	/	/	Negative
Chromium (CrVI)	mg/kg	1000	N.D.	N.D.

Flame Retardants	Unit	RoHS Limit	A
PBBs	mg/kg	1000	N.D.
MonoBB	mg/kg	/	N.D.
DiBB	mg/kg	/	N.D.
TriBB	mg/kg	/	N.D.
TetraBB	mg/kg	/	N.D.
PentaBB	mg/kg	/	N.D.
HexaBB	mg/kg	/	N.D.
HeptaBB	mg/kg	/	N.D.
OctaBB	mg/kg	/	N.D.
NonaBB	mg/kg	/	N.D.
DecaBB	mg/kg	/	N.D.
PBDEs	mg/kg	1000	N.D.
MonoBDE	mg/kg	/	N.D.
DiBDE	mg/kg	/	N.D.
TriBDE	mg/kg	/	N.D.
TetraBDE	mg/kg	/	N.D.
PentaBDE	mg/kg	/	N.D.
HexaBDE	mg/kg	/	N.D.
HeptaBDE	mg/kg	/	N.D.
OctaBDE	mg/kg	/	N.D.
NonaBDE	mg/kg	/	N.D.
DecaBDE	mg/kg	/	N.D.

## Specimen Description:

A: Ontology

B: Pin

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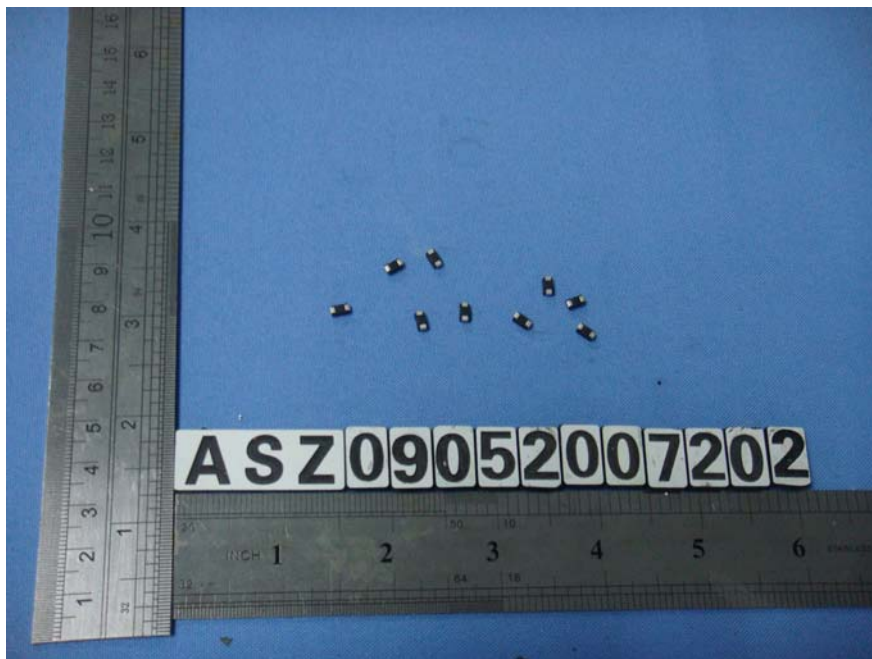
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### Note:

- Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
- mg/kg=ppm
- N.D.=not detected(<MQL)
- MQL=Method Quantitation Limit
- Spot-test:  
Negative=Absence of Cr(VI);
- \*The lead content in high melting temperature type solders is exempted from the requirement of RoHS Directive (2002/95/EC)
- Photo is included

### Photograph of Sample



Transient voltage surge suppressors

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

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