

# Test Report

No. SZR150310017001-1

Date: Mar. 17, 2015

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**Applicant** : JYH HSU(JEC) ELECTRONICS LTD.,

**Address** : Lu Chong Bridge Side, Dao Hou Rd, Cai Bai Country, DaoJiao Town,  
Dong GuanCity, GuangDong.

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**

**Sample name** : CERAMIC CAPACITOR

**Type /model** : /

**Manufacturer** : /

**Sample received date** : Mar. 10, 2015

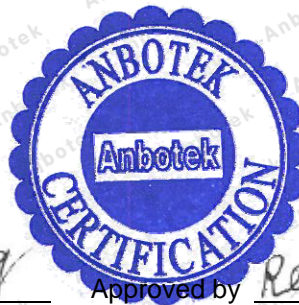
**Testing period** : Mar. 10, 2015 to Mar. 17, 2015

**Test requested** : As specified by client, to test to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Dibutyl phthalate(DBP), Di-2-ethylhexyl phthalate(DEHP), Hexabromocyclododecane (HBCDD), Benzyl butyl phthalate(BBP) in the submitted sample.

**According to the RoHS Directive 2011/65/EU**

**Test Method:** Please refer to the following page(s).

**Test Result(s):** Please refer to the following page(s).



Tested by

*Sahou Chau*

Inspected by

*Linshang*

Approved by

*Rebec cor*



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**Test Method:**

Tested Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury(Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Hexabromocyclododecane (HBCDD)	US EPA 3540C:1996	GC-MS
Phthalates	EN 14372:2004(E)	GC-MS

**Tested Sample/Part Description:**


A\* Ceramic capacitor mixed

**Test Result(s):**

Tested Item(s)	Result A* Unit (mg/kg)	MDL Unit (mg/kg)	Acceptable Limit Unit (mg/kg)
Lead (Pb)	N.D.	2	1000
Cadmium (Cd)	N.D.	2	100
Mercury (Hg)	N.D.	2	1000
Hexavalent Chromium (Cr(VI))	N.D.	2	1000

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Tested Item(s)	Result A* Unit (mg/kg)	MDL Unit (mg/kg)	Limit Unit (mg/kg)
<b>Polybrominated Biphenyls(PBBs)</b>	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	--
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>	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	--

Tested Item(s)	Result A* Unit (mg/kg)	MDL Unit (mg/kg)	Acceptable Limit Unit (mg/kg)
Hexabromocyclododecane (HBCDD)	N.D.	5	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	50	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	50	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	50	1000

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**Note:**

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

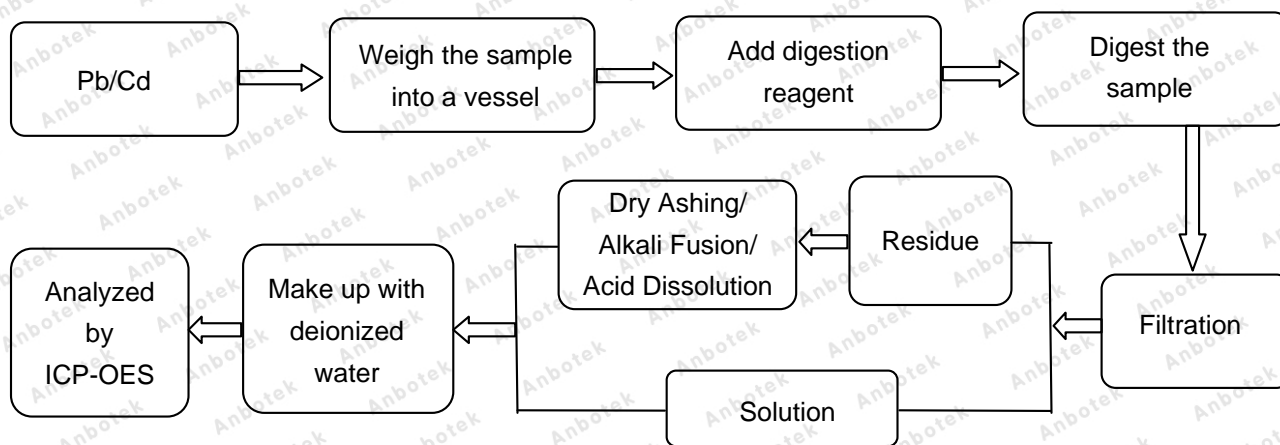
-mg/kg = ppm = parts per million

-A\* = According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.

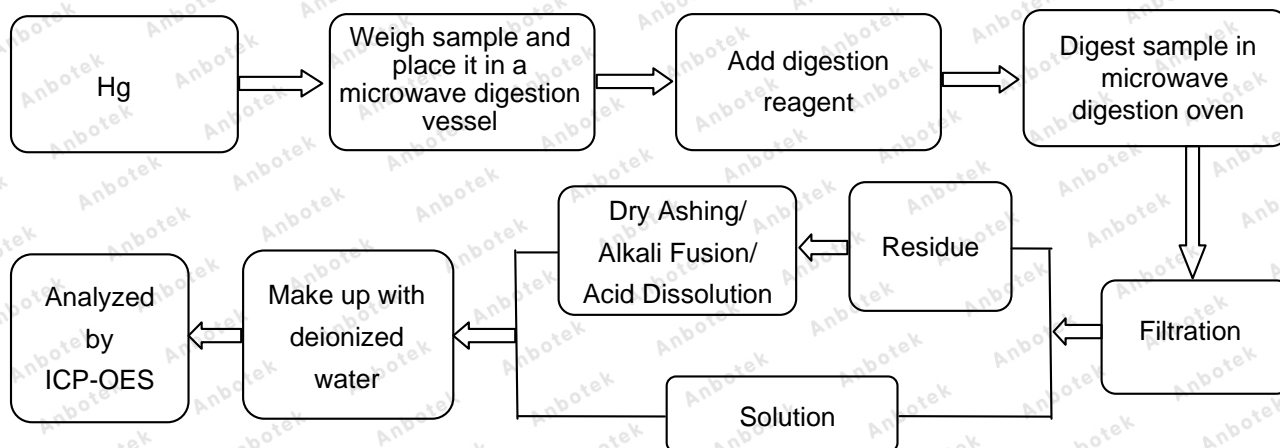
**Test Process:**

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

◆ IEC 62321-5:2013 Ed.1.0



◆ IEC 62321-4:2013 Ed.1.0



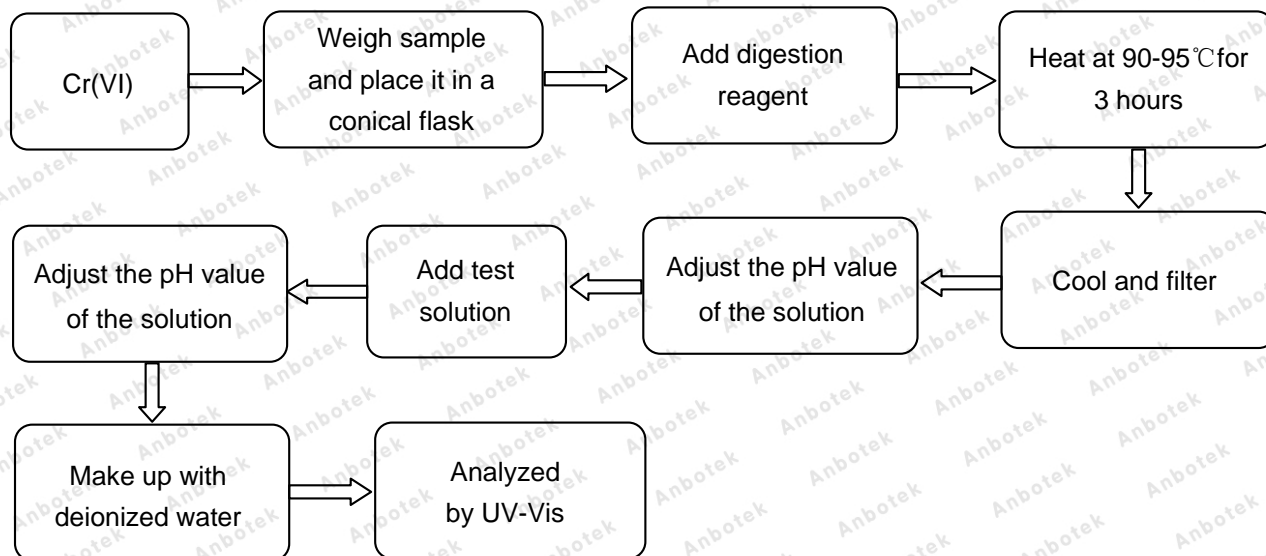
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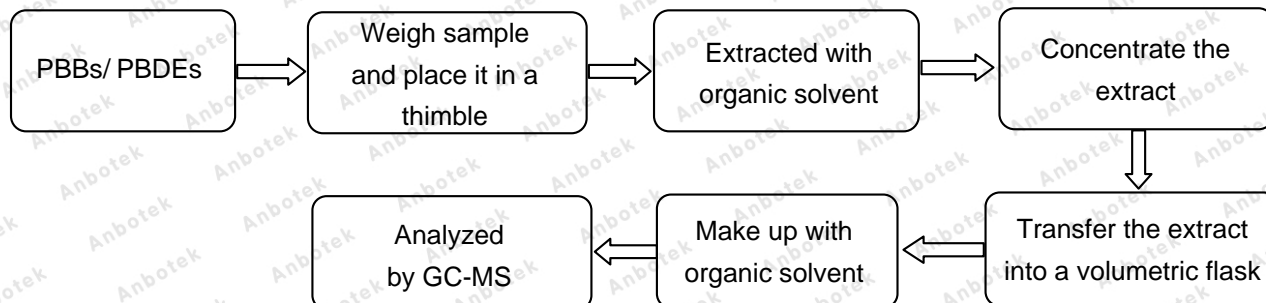
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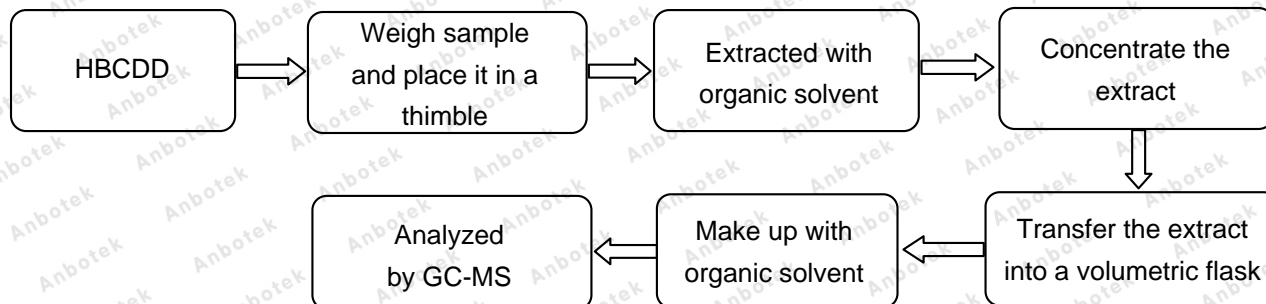
◆ IEC 62321:2008 Ed.1 Annex C



◆ IEC 62321:2008 Ed.1 Annex A



◆ US EPA 3540C:1996



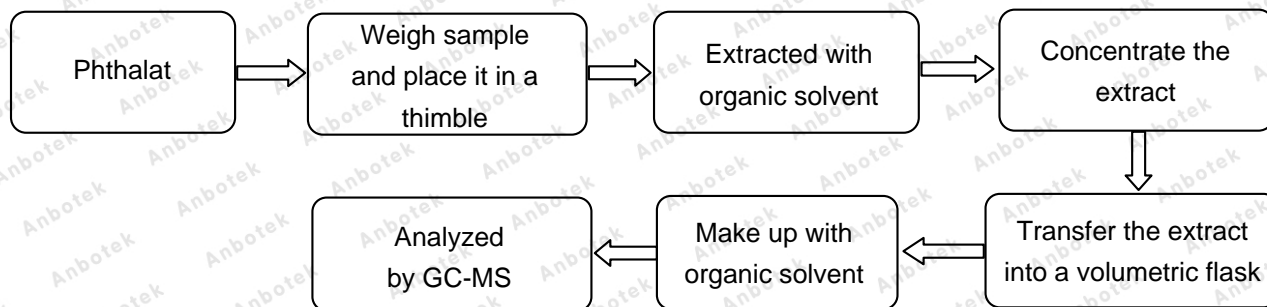
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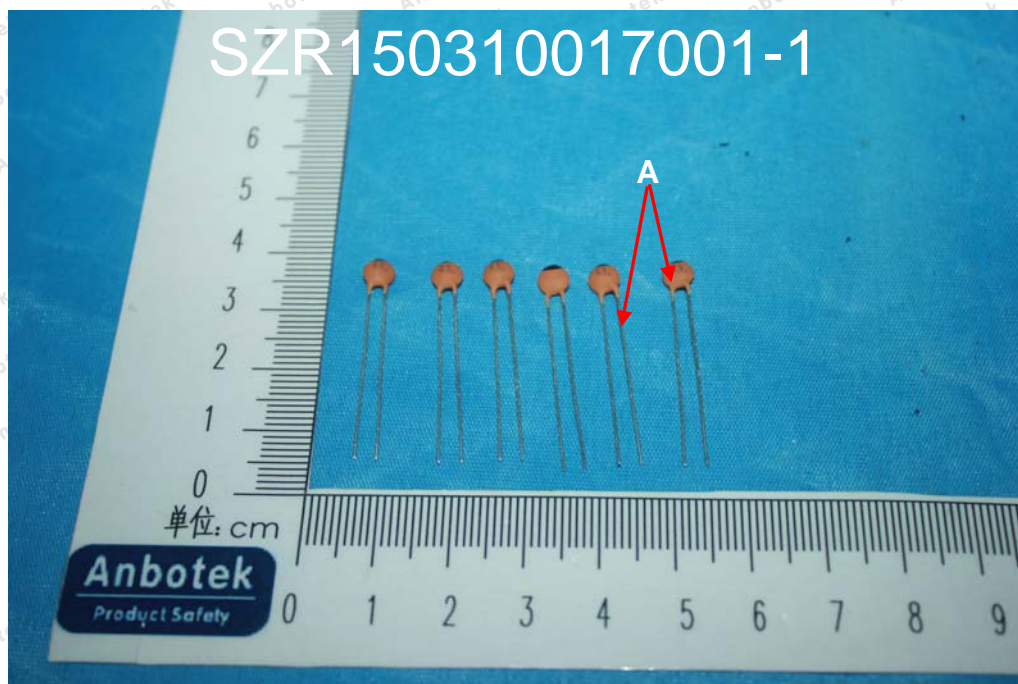
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◆ EN14372:2004



Photograph of Sample



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

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