

## TEST REPORT

CheckCode:361998  
Report No.:C202511262469-20E

**Company Name:** Shanghai Eastsoft Microelectronics Co.,Ltd.  
**Address:** 3rd Floor, Building 12,Phoenix Park, No.1515 Gumei Road, Xuhui District,Shanghai.

**The following sample information is provided by the client and responsible for its authenticity**

Sample Name: WLCSP chip  
Material: WLCSP  
Sample State: Normal

Date of Receipt: Dec.2,2025 Test Period: Dec.2,2025 – Dec.9,2025

**Test Request:** As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium [Cr(VI)], Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) content in the submitted sample(s).

**Judge Standard:** RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

**Conclusion:** Based on the performed test on submitted sample, the result(s) **comply with** the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Edited by Yan Xiaolan Reviewed by Huang Yingkun Approved by Zheng Xinqing



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Issue date:Dec.9,2025

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**GRG METROLOGY & TEST GROUP CO., LTD.**

Add: No.8,Chuangyun Road,Panyu District,Guangzhou,Guangdong,China  
Tel: 4006020999 Fax: +86-020-38698685 Website: <http://www.grgtest.com>

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## Sample description:

Sample No.	Description
1	Black body with beige printing

## Test method:

Test Item(s)	Test Method	Measuring Instrument	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES/AAS	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	100mg/kg
Mercury (Hg)	IEC 62321-4:2013 +AMD1:2017	ICP-OES	1000mg/kg
Hexavalent Chromium [ Cr ( VI ) ]	IEC 62321-7-2:2017	UV-Vis	1000mg/kg
Polybrominated biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	1000mg/kg
Polybrominated diphenyl ethers (PBDEs)	IEC 62321-6:2015	GC-MS	1000mg/kg
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017	GC-MS	1000mg/kg
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	1000mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	1000mg/kg
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	1000mg/kg

## Test result(s):

Test Item	Sample	Unit	MDL
	1		
Lead (Pb)	22	mg/kg	2
Cadmium (Cd)	N.D.	mg/kg	2
Mercury (Hg)	N.D.	mg/kg	2
Hexavalent Chromium [Cr(VI)]	N.D.	mg/kg	8

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Test Item	Sample	Unit	MDL
	1		
Sum of PBBs	N.D.	mg/kg	---
Monobromobiphenyl	N.D.	mg/kg	50
Dibromobiphenyl	N.D.	mg/kg	50
Tribromobiphenyl	N.D.	mg/kg	50
Tetrabromobiphenyl	N.D.	mg/kg	50
Pentabromobiphenyl	N.D.	mg/kg	50
Hexabromobiphenyl	N.D.	mg/kg	50
Heptabromobiphenyl	N.D.	mg/kg	50
Octabromobiphenyl	N.D.	mg/kg	50
Nonabromobiphenyl	N.D.	mg/kg	50
Decabromobiphenyl	N.D.	mg/kg	50
Sum of PBDEs	N.D.	mg/kg	---
Monobromodiphenyl ether	N.D.	mg/kg	50
Dibromodiphenyl ether	N.D.	mg/kg	50
Tribromodiphenyl ether	N.D.	mg/kg	50
Tetrabromodiphenyl ether	N.D.	mg/kg	50
Pentabromodiphenyl ether	N.D.	mg/kg	50
Hexabromodiphenyl ether	N.D.	mg/kg	50
Heptabromodiphenyl ether	N.D.	mg/kg	50
Octabromodiphenyl ether	N.D.	mg/kg	50
Nonabromodiphenyl ether	N.D.	mg/kg	50
Decabromodiphenyl ether	N.D.	mg/kg	50

Test Item	Sample	Unit	MDL
	1		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	mg/kg	50
Butyl benzyl phthalate (BBP)	N.D.	mg/kg	50
Dibutyl phthalate (DBP)	N.D.	mg/kg	50
Diisobutyl phthalate (DIBP)	N.D.	mg/kg	50

- Remark:
- 1) mg/kg = ppm
  - 2) MDL = Method Detection Limit
  - 3) "N.D." = Not Detected (Below Method Detection Limit)

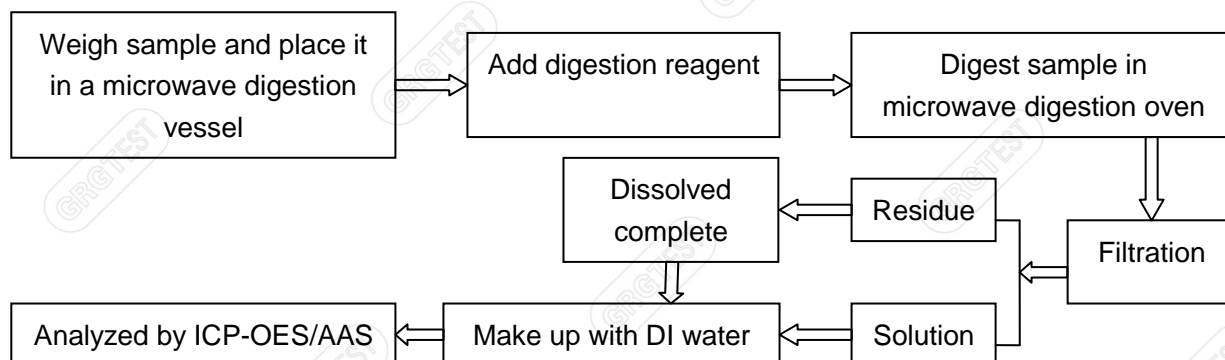
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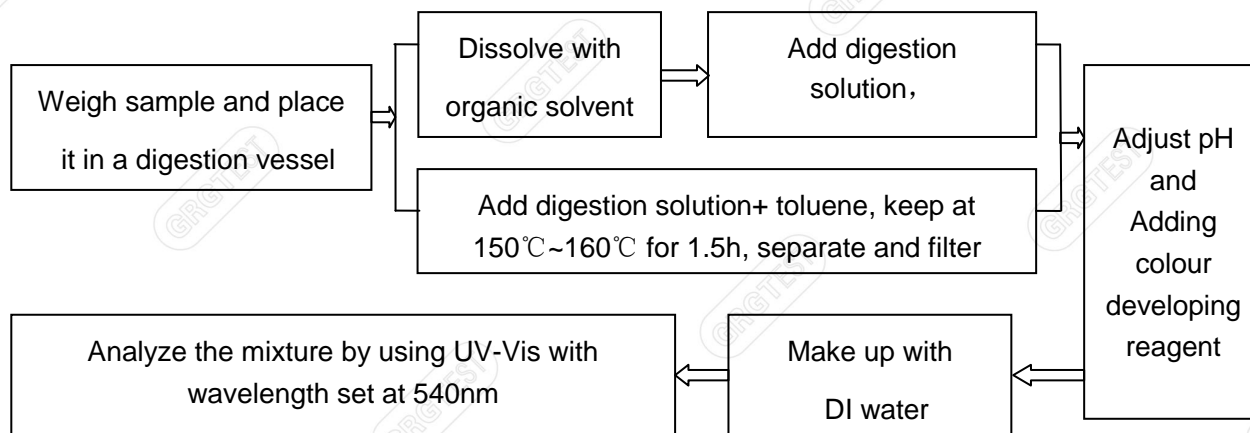
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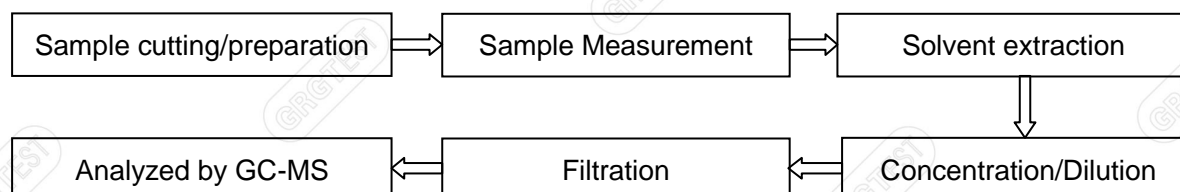
## Test Process for Pb / Cd / Hg



## Test Process for Cr (VI)



## Test Process for PBBs & PBDEs



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## Test Process for Phthalates

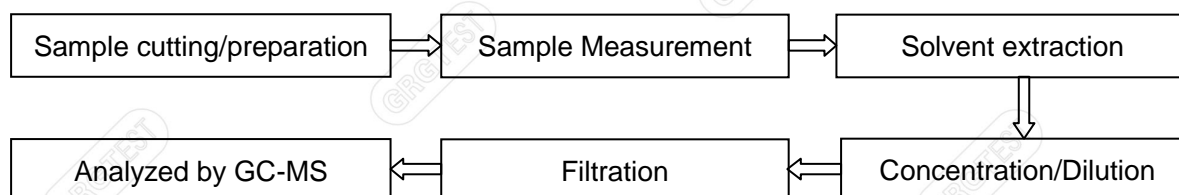
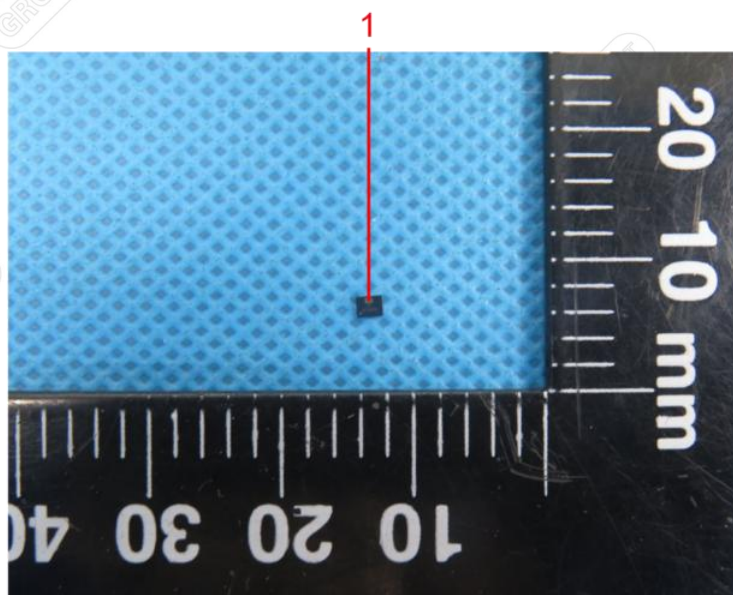


Photo of Sample



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