

# TEST REPORT

NO.: A001R181021051001-2

Date: Aug 24, 2018

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**Applicant:** EastRising Technology Co., Ltd

**Address:** 6G, Building A1, Zhujiang Square, Zhongxin Cheng, Longgang District, Shenzhen, China

**Report on the submitted sample said to be**
**Sample name:** Liquid-crystal display module

**Model:** ERS65231-1

**Item/Lot No.:** /

**Material:** /

**Buyer:** /

**Supplier:** /

**Manufacturer:** /

**Sample received date:** Aug 19, 2018

**Testing period:** From Aug 20, 2018 to Aug 21, 2018

**Test Requested:**

 (1): As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample.

(2): As specified by client, based on REACH Regulation No.1907/2006/EC, to determine HBCDD、DEHP、DBP、BBP content in the submitted samples.

**Test Method:**

- (1) -With reference to IEC 62321:2008 Ed 1.0 Electrotechnical products - Determination of levels of six regulated substances
- 
- With reference to IEC 62321:2013 Ed 1.0 Determination of certain substances in electrotechnical products

Test Item	Pretreatment Method	Measuring Instrument	MDL
Lead	IEC 62321-5:2016 Ed 1.0 Section 7.2/7.3	ICP-OES	2 mg/kg
Cadmium	IEC 62321-5:2016 Ed 1.0 Section 7.2/7.3	ICP-OES	2 mg/kg
Mercury	IEC 62321-4:2016 Ed 1.0 Section 7.2	ICP-OES	2 mg/kg
Hexavalent Chromium	IEC 62321:2008 Ed 1.0 Annex C	UV-VIS	2 mg/kg
	IEC 62321:2008 Ed 1.0 Annex B	UV-VIS	/
Polybrominated Biphenyls/ Polybrominated Diphenyl Ethers	IEC 62321:2008 Ed 1.0 Annex A	GC-MS	5 mg/kg

(2)

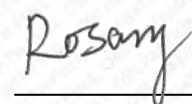
Test Item	Pretreatment Method	Measuring Instrument	MDL
HBCDD	US EPA 3540C:1996	GC-MS	10 mg/kg
DEHP、DBP、BBP	EN 14372:2004	GC-MS	30 mg/kg

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

 Signed for and on behalf of  
 Shenzhen AOV Testing Technology Co., Ltd

 Tested by:   
 Lv Jie Hua, Jeewah  
 Technical Director

 Reviewed by:   
 Liu Lin Wen, Lewis  
 Laboratory Supervisor

 Approved by:   
 Luo Jun, Rosary  
 Project Leader

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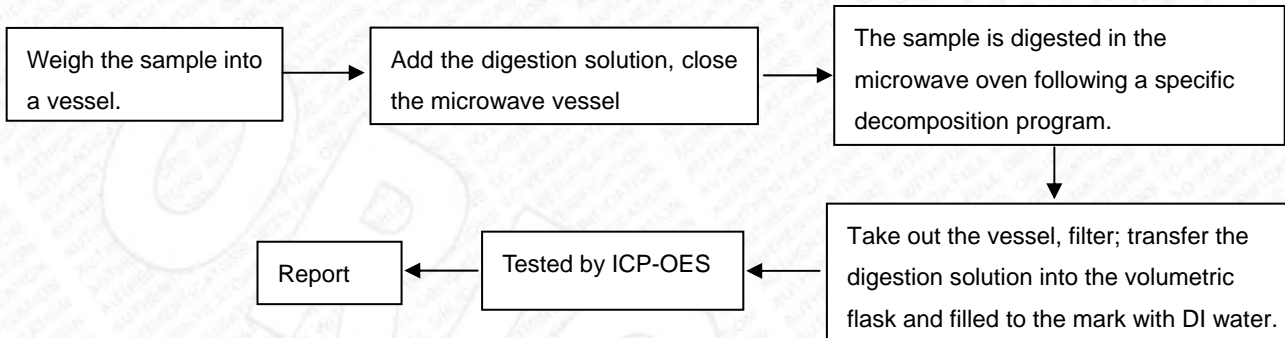
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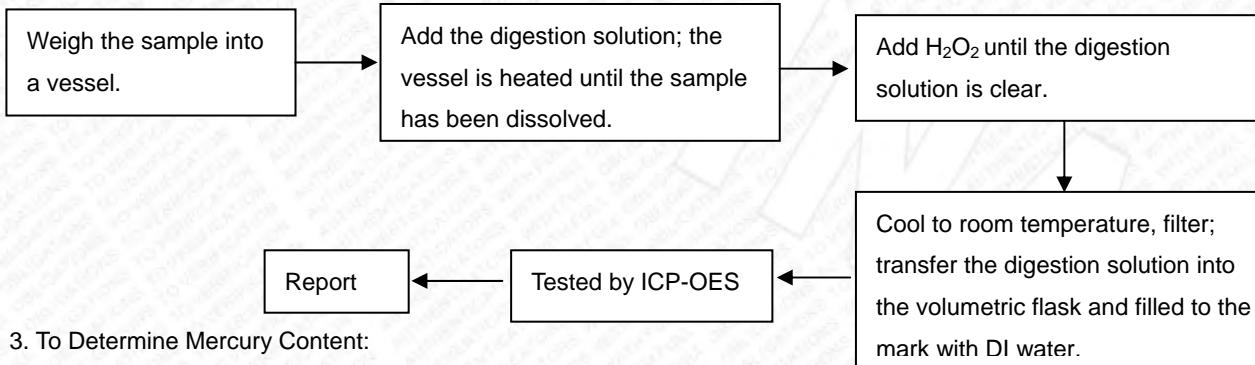
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**Test Flow:**

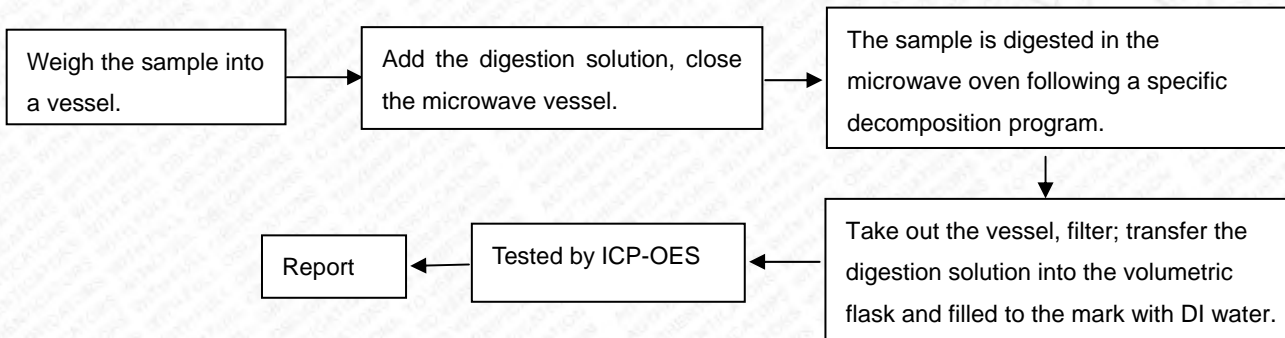
1. To Determine Lead, Cadmium Content (for Electronics):



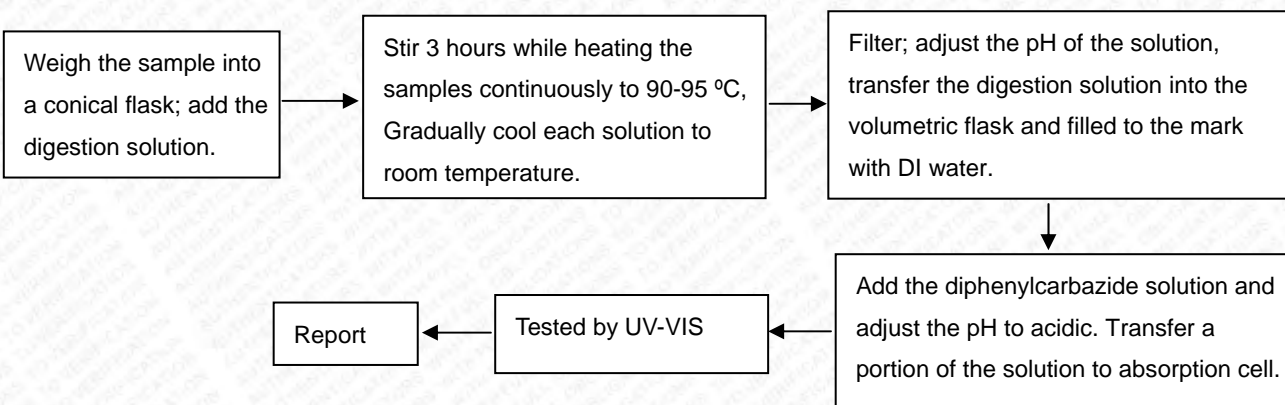
2. To Determine Lead, Cadmium Content (for metal):



3. To Determine Mercury Content:



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



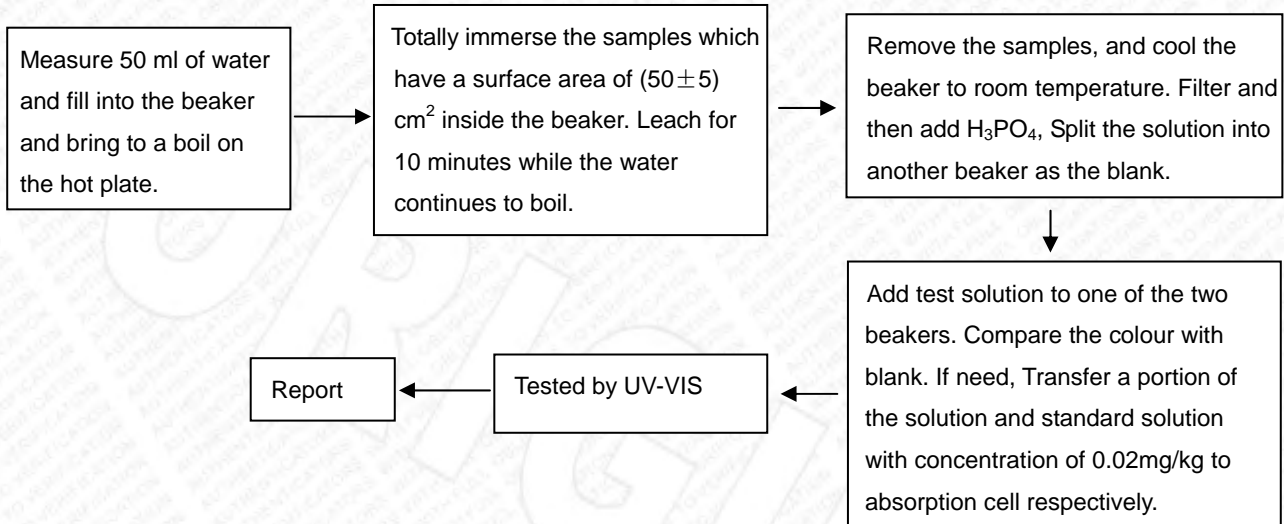
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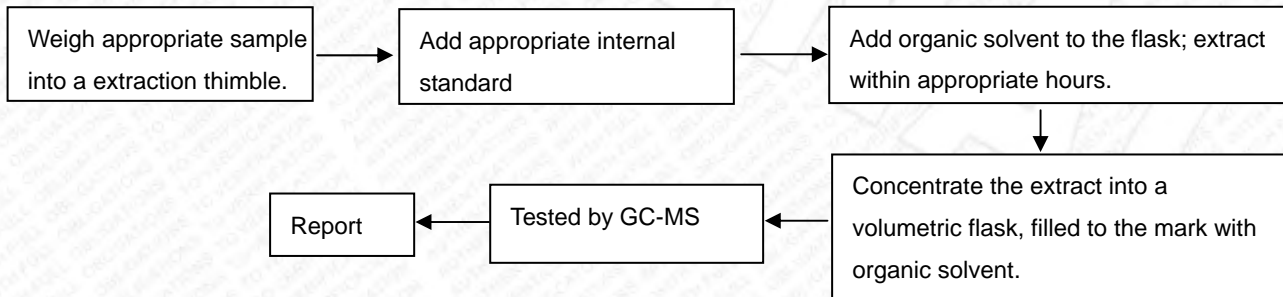
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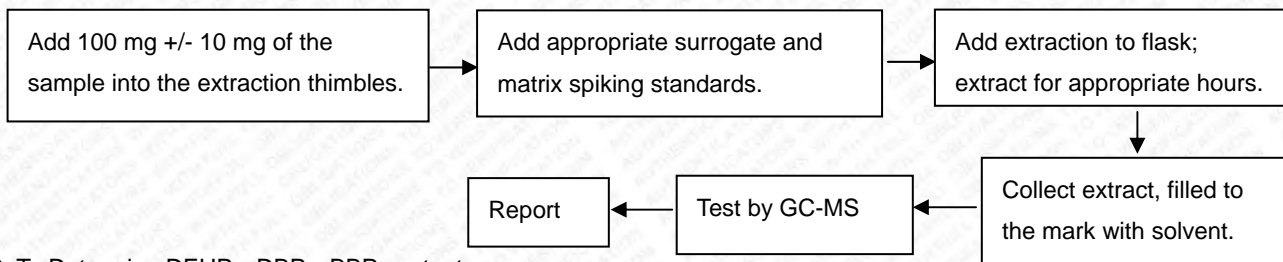
## 5. To Determine Hexavalent Chromium Content (for Metals/boiling water extraction):



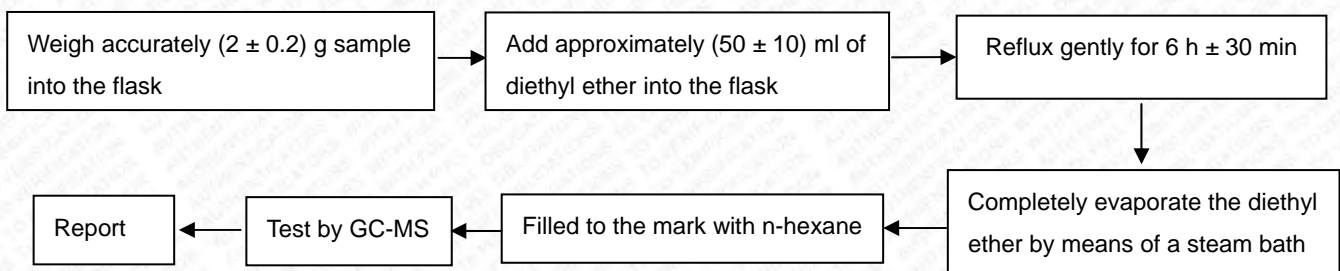
## 6. To Determine Polybrominated Biphenyls/Polybrominated Diphenyl Ethers Content:



## 7. To Determine HBCDD Content:



## 8. To Determine DEHP、DBP、BBP content:



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**Test Results:**

(1)

Item	Unit	Result	
		A*	B*
Lead	mg/kg	N.D.	10
Cadmium	mg/kg	N.D.	N.D.
Mercury	mg/kg	N.D.	N.D.
Hexavalent Chromium	mg/kg	N.D.	/
Hexavalent Chromium by boiling water extraction	/	/	**Negative

Item	Unit	Result
		A*
PBBs	mg/kg	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	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.

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(2)

Item	CAS No.	Unit	Reference Threshold	Result
				A*
Hexabromocyclododecane(HBCDD)	/	mg/kg	1000	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	1000	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	1000	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	1000	N.D.

**Specimen Description:**

A\*: Nonmetal parts mixed

B\*: Metal parts mixed

**Note:**

- mg/kg=ppm
- N.D.=not detected(<MDL)
- MDL=Method Detection Limit
- \*\*Boiling water extraction:  
 Negative=Absence of Cr<sup>6+</sup>;  
 Positive=Presence of Cr<sup>6+</sup>; the detected concentration in boiling water extraction solution is equal or greater than 0.02mg/kg with 50cm<sup>2</sup> sample surface area.
- Storage conditions and production date of the tested sample are unavailable and thus results of Cr<sup>6+</sup> represent status of the sample at the time of testing.
- \*According to the applicant's request, Sample A, Sample B are mixed test respectively. The testing results of Sample A, Sample B may be different from that of any sole material in Sample A, Sample B.
- Reference Threshold: Reference REACH - SVHC report threshold, as the limit of substance has not been determined.
- Photo is included

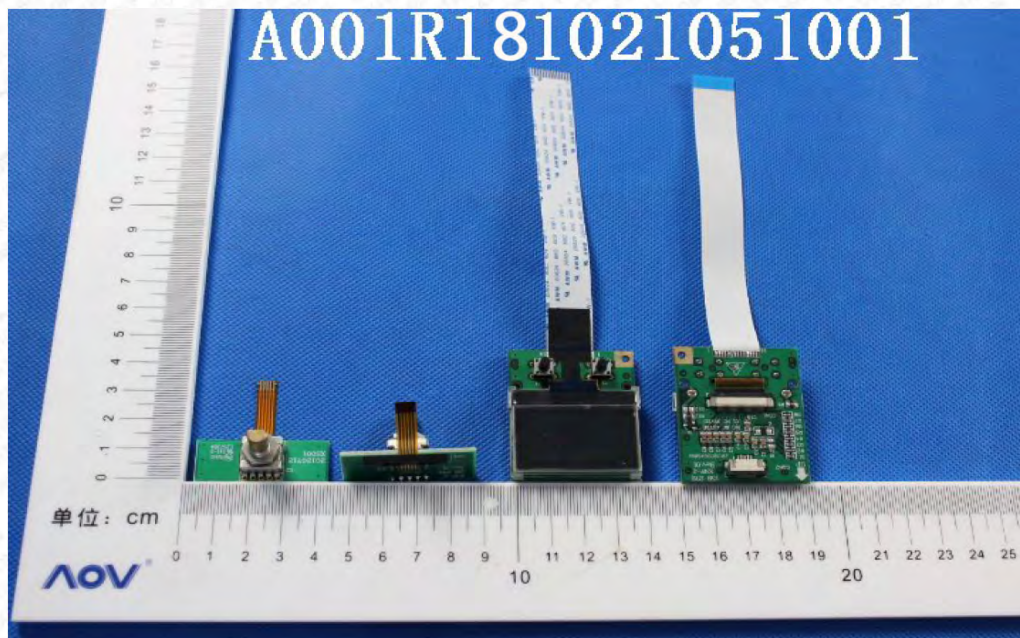
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## Photograph of Sample



Liquid-crystal display module

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