

<u>Test Report</u>	Report No.: 210719212GZU-024
Applicant:	AILUN ELECTRONIC TECHNOLOGY (H.K) LIMITED
	Room 01, 21/F Prosper Commercial Building 9 Yin Chong Street, Kowloom, H.K
Sample Descript	ion:

The following submitted sample(s) said to be:

Item Name	:	MLCC-Y5V
Model No.	:	NA
Date of Sample Received	:	Jul 21, 2021
Testing Period	:	Jul 21, 2021 to Aug 6, 2021
-		

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Tested component of submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	Pass

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch: Prepared by:

Leo Yao



Leo Yao Engineer Reviewed by:

Michael Pang Assistant Technical Supervisor

Date: Aug 11, 2021





<u>Test Report</u>

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Date: Aug 11, 2021

Tests conducted:

RoHS Chemical Test

(A) Test Result Summary:

Test Item	Result (mg/kg)	
	(1)	
Cadmium (Cd) Content	ND	
Lead (Pb) Content	ND	
Mercury (Hg) Content	ND	
Chromium (VI)(Cr ⁶⁺) Content	ND	
Sum of Polybrominated Biphenyls (PBBs)	ND	
Monobromobiphenyl (MonoBB)	ND	
Dibromobiphenyl (DiBB)	ND	
Tribromobiphenyl (TriBB)	ND	
Tetrabromobiphenyl (TetraBB)	ND	
Pentabromobiphenyl (PentaBB)	ND	
Hexabromobiphenyl (HexaBB)	ND	
Heptabromobiphenyl (HeptaBB)	ND	
Octabromobiphenyl (OctaBB)	ND	
Nonabromobiphenyl (NonaBB)	ND	
Decabromobiphenyl (DecaBB)	ND	
Sum of Polybrominated Diphenyl Ethers (PBDEs)	ND	
Monobromodiphenyl Ether (MonoBDE)	ND	
Dibromodiphenyl Ether (DiBDE)	ND	
Tribromodiphenyl Ether (TriBDE)	ND	
Tetrabromodiphenyl Ether (TetraBDE)	ND	
Pentabromodiphenyl Ether (PentaBDE)	ND	
Hexabromodiphenyl Ether (HexaBDE)	ND	
Heptabromodiphenyl Ether (HeptaBDE)	ND	
Octabromodiphenyl Ether (OctaBDE)	ND	
Nonabromodiphenyl Ether (NonaBDE)	ND	
Decabromodiphenyl Ether (DecaBDE)	ND	
Phthalates		
Bis(2-ethylhexyl) phthalate (DEHP)	ND	
Butyl benzyl phthalate (BBP)	ND	
Dibutyl phthalate (DBP)	ND	
Diisobutyl phthalate (DIBP)	ND	

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Tested sample:

(1) Brown ceramic with silvery metal (24)

ND = Not detected mg/kg = milligram per kilogram

(B) RoHS Requirement:

Restricted Substances	Limits	
Cadmium (Cd)	0.01% (100 mg/kg)	
Lead (Pb)	0.1% (1000 mg/kg)	
Mercury (Hg)	0.1% (1000 mg/kg)	
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)	
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)	
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)	
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)	

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

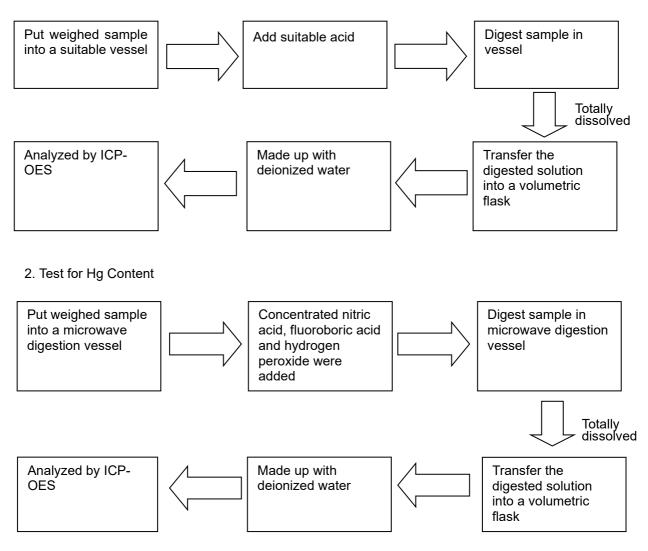
Test Item	Test Method	Detection Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content With reference to IEC 62321-4 Edition 1.1: 2017, by acid digestion and determined by ICP - OES		2 mg/kg
With reference to IEC 62321-7-2 Edition 1.0:2017,Chromium (VI)(Cr6+)ContentHexavalent chromium – Determination of hexavalent chromium (Cr (VI) in polymers and electronics by the colorimetric method		10 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0: 2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0: 2017, by solvent extraction and determined by GC/MS	100 mg/kg

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- (D) Measurement Flowchart:
- 1. Test for Cd/Pb Contents



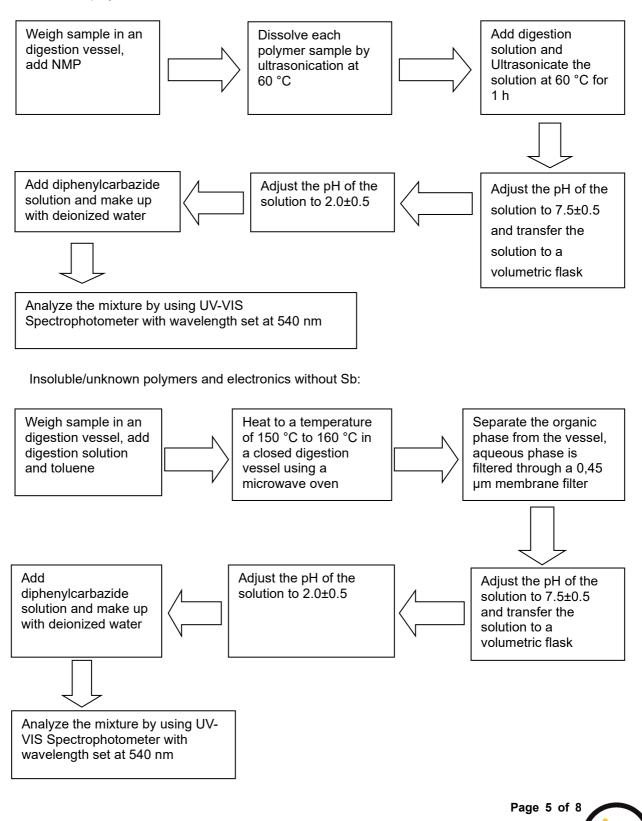


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3. Test for Chromium (VI) (Cr6+) Content

Soluble polymers:



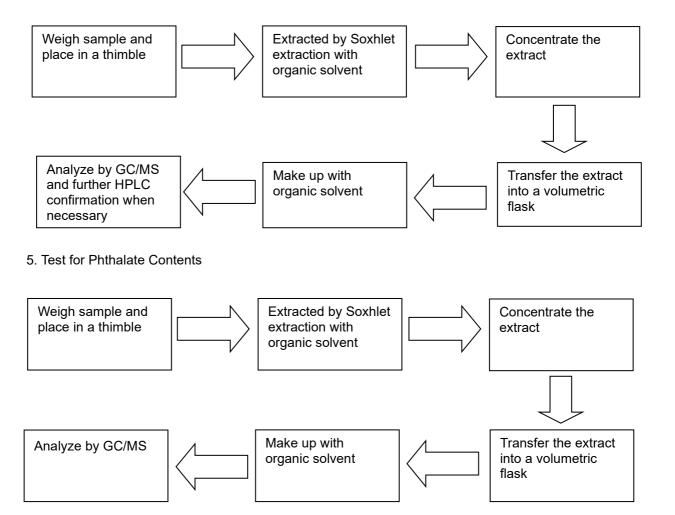
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, 1-8F.& Room 01,101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China. Tel: (86-20) 8213 9688 Fax: (86-20) 32057538 Website: <u>www.intertek.com</u>



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4. Test for PBBs/PBDEs Contents





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Sample photo





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End of report

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