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Company Name DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.28, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,

GUANGDONG PROVINCE, P. R. CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

the applicant

Sample Name MLCC-X7R/MLCC-X7R-AT&Soft

Sample Received Date Jul. 20, 2023

Testing Period Jul. 20, 2023 to Jul. 28, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),

Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP,

DIBP) in the submitted sample(s).

Test Method/Test Result(s) Please refer to the following page(s).

Conclusion

Tested Sample According to standard/directive Result

RoHS Directive 2011/65/EU with

Submitted Sample amendment (EU) 2015/863

PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Hill Zheng Technical Manager

Hill The

No. R450141036

Jul. 28, 2023

Centre Testing International Group Co., Ltd.

RieBuilding, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICF-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0:2013		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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Test Result(s)

Tested Item(s)	Result		MDL	Limit
	1.1	2.1	IVIDE	Limit
Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
	1.1	2.1	MIDL	Limit
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 m a/lsa
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg	1
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	

Tested Item(s)	Result		MDL	Limit
	1.1	2.1	WIDL	Limit
Polybrominated Diphenyl Ethers	(PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 m a/ls a
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg	



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Tested Item(s)	Result		MDL	Limit
	1.1	2.1		
Phthalates (DBP, BBP, DEHP, DI	Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	ND	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 mg/kg	1000 ma/lza
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/lsg	1000 mg/kg
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	1.1	Brown capacitance(Tested as a whole)
2	2.1	Brown capacitance(Tested as a whole)

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

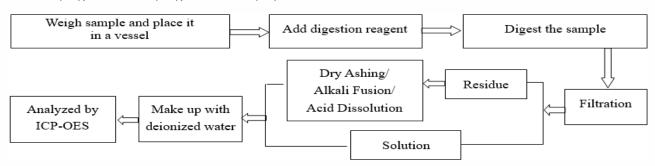
- -The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.
- -MDL = Method Detection Limit
- -N.D. = Not Detected (< MDL)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%



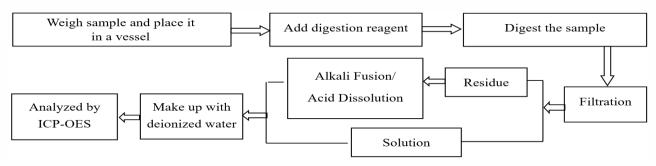
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Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

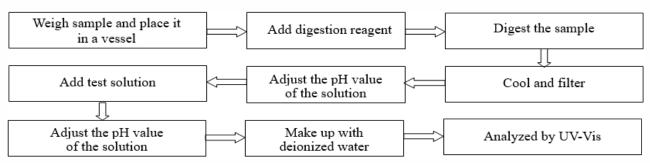


2. Mercury (Hg)

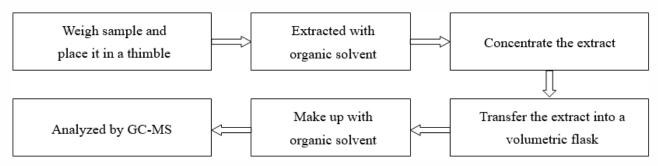


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3. Hexavalent Chromium (Cr(VI))



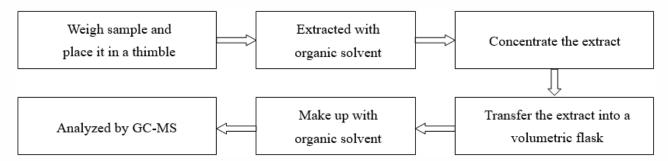
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)





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5. Phthalates (DBP, BBP, DEHP, DIBP)







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Photo(s) of the sample(s)

Final Product 1.1





2.1



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***