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Company Name DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.32, 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 SMD Aluminum Eletrolytic Capacitor

Sample Received Date Jul. 3, 2025

Testing Period Jul. 3, 2025 to Jul. 10, 2025

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).

Pori Xia

Date

Jul. 23, 2025

Iori Xia

Lab Authorized Signatory

No. R179751065

Centre Testing International Group Co.,Ltd.

The Building SXing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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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
	IEC 62321-7-1:2015	UV-Vis
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	LIV V:-/ICD OES
	Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS
(PBDEs)	777 1001 0 2017	99.10
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Test Result(s)

Tested Item(s)		Result			Limit
	1	2	3	RL	Limit
Lead (Pb)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
	N.D.▼		N.D.▼	0.10 μg/cm ²	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.		N.D.	(LOQ)	1000 mg/kg
		N.D.		20 mg/kg	1000 mg/kg

Tested Item(s)	Result			RL	Limit
	4	5	6		Lillit
Lead (Pb)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.▼	N.D.▼		0.10 µg/cm ² (LOQ)	1000 mg/kg
			N.D.	20 mg/kg	1000 mg/kg

Tested Item(s)	Result	RL	Limit
	7	, KL	Lillit
Lead (Pb)	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	10 mg/kg	1000 mg/kg
		0.10 μg/cm ²	1000 mg/lsg
Hexavalent Chromium (Cr(VI))		(LOQ)	1000 mg/kg
	N.D.	20 mg/kg	1000 mg/kg



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Tested Item(s)	Re	sult	RL	Limit
resteu rem(s)	1	3		Limit
Polybrominated Biphenyls (PBBs) #			·	
Monobromobiphenyl	N.D.	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	100 mg/kg	1
Pentabromobiphenyl	N.D.	N.D.	100 mg/kg	1000 m a/lra
Hexabromobiphenyl	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	N.D.	100 mg/kg	

Tested Item(s)	Result	RL	Limit
Tested Item(s)	4	KL	Limit
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 m = /lr =
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	



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Tested Item(s)	Result	RL	Limit
rested rem(s)	5	KL	Limit
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 m ~ /lr~
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	

Tested Item(s)		Result		RL	Limit
rested tem(s)	2	6	7	KL	Limit
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	N.D.	N.D.	100 mg/kg	



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Tested Item(s)	Re	sult	RL	Limit
Tested Item(s)	1	3		Lillit
Polybrominated Diphenyl Ethers (PBDI	Es) #		•	
Monobromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	100 mg/kg	1000 //
Hexabromodiphenyl ether	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	100 mg/kg	

Tested Item(s)	Result	RL	Limit
resteu item(s)	4	KL	Limit
Polybrominated Diphenyl Ethers (PBD)	Es)		
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	



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Tested Item(s)	Result	- RL	Limit
rested rem(s)	5	, KL	Ziiiit
Polybrominated Diphenyl Ethers (PBDI	Es)		
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000 m ~/lr~
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	

Tested Item(s)		Result		RL	Limit
Tested Item(s)	2	6	7	KL	Limit
Polybrominated Diphenyl Ethers (PBDI	Es)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg]
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	N.D.	100 mg/kg	



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Tested Item(s)	Res	sult	RI.	Limit
	1	3	KL	
Phthalates (DBP, BBP, DEHP, DIBP) #				
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7				
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:117-81-7				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5	N.D.			

Tested Item(s)	Result	RL	Limit
	4		
Phthalates (DBP, BBP, DEHP, DIBP)			
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7			
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:117-81-7	N.D.		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5	N.D.		

Tested Item(s)	Result	RL	Limit
	5	ILL.	
Phthalates (DBP, BBP, DEHP, DIBP)			
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	11.15.		
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:117-81-7	N.D.		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5	N.D.		



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Tested Item(s)	Result		RL	Limit	
	2	6	7	KL	12mmt
Phthalates (DBP, BBP, DEHP, DIBP)					
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7					
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	ND	N.D.	50 mg/kg	1000 mg/kg
CAS#:117-81-7		N.D.			
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5					

Sample/Part Description

No.	CTI Sample ID	Description
1	1	Silvery white metal with purple printing
2	2	Black plastic
3	3	Silvery white metal
4	4	Grey metal foil
5	5	Silvery grey metal foil
6	6	White paper
7	7	Black rubber

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

- -RL= Report Limit
- -N.D. = Not Detected (< RL)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- - ∇ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- -In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.

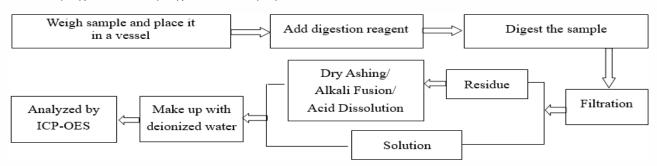
Note: -"""indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.



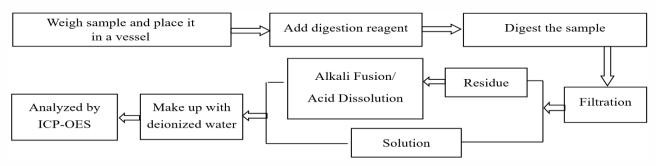
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Test Process

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

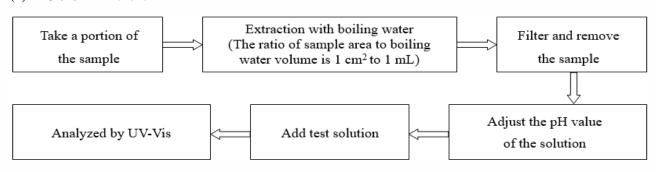


2. Mercury (Hg)

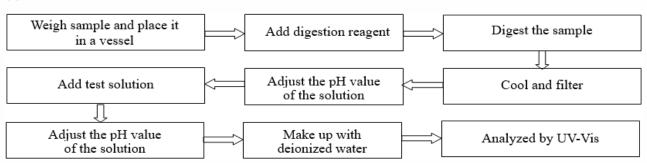


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



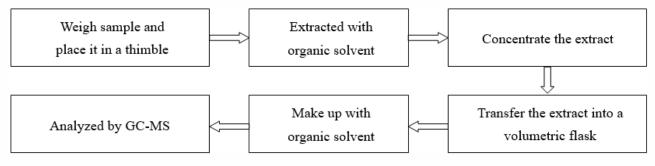
(2) IEC 62321-7-2:2017



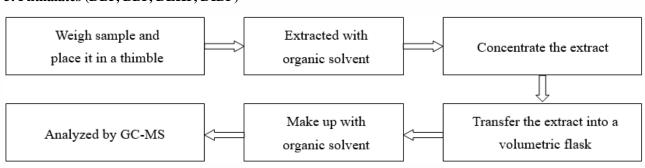


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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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



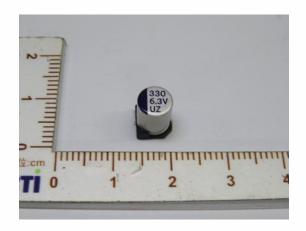
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Photo(s) of the sample(s)

Final Product 1



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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. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;
- 6. 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 ***