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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 PTC thermistor for overload protection

Sample Received Date Jul. 15, 2024

Testing Period Jul. 15, 2024 to Jul. 31, 2024

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).

Hill Zheng

Technical Manager

Jul. 31, 2024

No. R677509984

Centre Testing International Group Co., Ltd.

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

Date



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*********	*************	********
Conclusion		
Tested Sample	According to standard/directive	Result
Cylemitted Commis	RoHS Directive 2011/65/EU with	PASS
Submitted Sample	amendment (EU) 2015/863	CCA1
*********	**************	*******
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.		



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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 (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS



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Test Result(s)

Tested Item(s)	Result		MDL	Limit
rested rem(s)	1	2	WIDL	Limit
Lead (Pb)	6354 mg/kg ^{#1}	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Howavalant Chromina (Cr(VI))		N.D.▼	0.10 µg/cm ²	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.		(LOQ) 20 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
rested item(s)	1		
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 a/ls a
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	MDL	Limit
Tested Item(s)	2	WIDL	Lillit
Polybrominated Biphenyls (PBB	s) [#]		
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 ma/lsa
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	MDL	Limit
rested item(s)	1	MIDL	Liiiit
Polybrominated Diphenyl Ethers	(PBDEs)		
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 //
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	MDL	Limit
	2	MIDL	Liiiit
Polybrominated Diphenyl Ethers	s (PBDEs) #		
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 /1
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	MDL	Limit
rested tem(s)	1	WIDE	Dinit
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7			
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7			
Diisobutyl phthalate (DIBP)	N D	50 mg/kg	1000 mg/kg
CAS#:84-69-5	N.D.		

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

Sample/Part Description

No.	CTI Sample ID	Description
1	1	Grey body(Tested as a whole) #2
2	2	Silvery metal pin



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

- -#2The 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 or LOQ)
- -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
- - $^{\blacktriangledown}$ 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.
- -#1According to the client's statement, the material of the sample(s) fall into exemption items 7(a) according to EU Directive 2011/65/EU: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

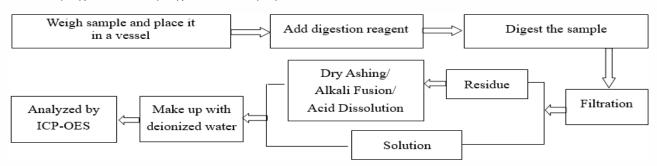
Note: -"""indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.



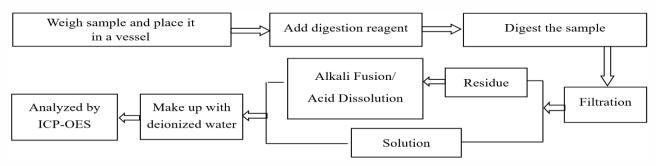
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Test Process

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

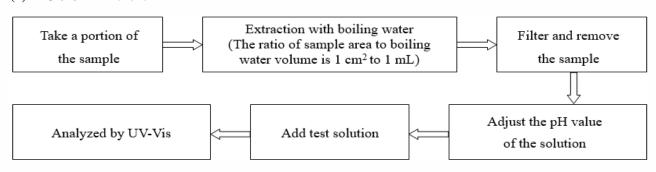


2. Mercury (Hg)

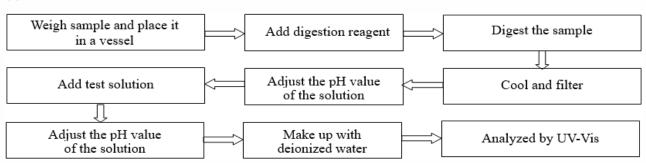


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



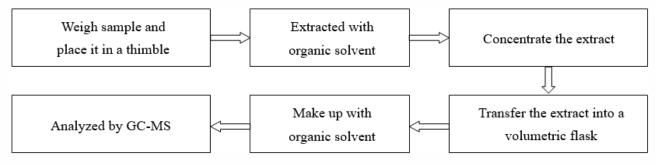
(2) IEC 62321-7-2:2017



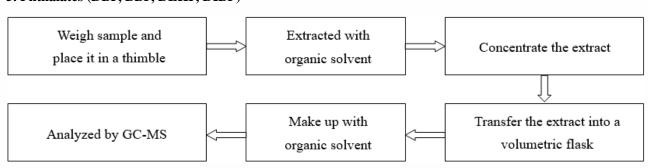


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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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



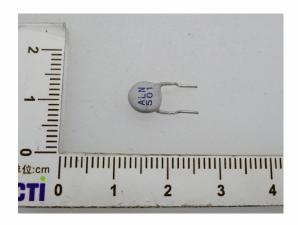




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Photo(s) of the sample(s)

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;
- 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 ***