



Report No. A2230377936120R1

Page 1 of 8

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		
Sample Name	Shunt resistors	
Sample Received Date	Jul. 19, 2023	
Testing Period	Jul. 31, 2023 to Aug. 7, 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).	

flill Hill Zheng Technical Manager

sting international Group Co.,Ltd.

Date

Aug. 11, 2023

No. R179752140

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



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.





Report No. A2230377936120R1

Page 3 of 8

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 62321-7-1:2015	UV-Vis
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



Report No. A2230377936120R1

Page 4 of 8

Test Result(s)

Tested Item(s)	Result	MDL	Limit
resteu rem(s)	1		
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ¥	0.10 µg/cm ²	1000 mg/kg
		(LOQ)	

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

Tested Item(s)	Result	MDL	Limit
resteu riem(s)	1		Lillint
Polybrominated Diphenyl Ethers (PBDEs)*			
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 ma/la
Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	



Report No. A2230377936120R1

Page 5 of 8

Tested Item(s)	Result	- MDL	Limit
rested rem(s)	1		
Phthalates (DBP, BBP, DEHP, DIBP)*			
Dibutyl phthalate (DBP)	ND	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.		
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.		
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7	N.D.		
Diisobutyl phthalate (DIBP)	ND	50	1000
CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

Sample No. Description 1 Silvery metal

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

-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 $0.10 \ \mu g/cm^2$

- 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.

-The test result(s) (except for Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP)) is(are) presented in reference to the result(s) that reported in A2230355012120001.

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

-This testing report revised the full text based on the original report of No.A2230377936120. This testing report displaces the original one which was invalid since the date of this testing report released.

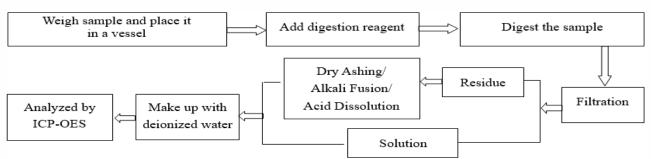
CTI华测检测

Test Report

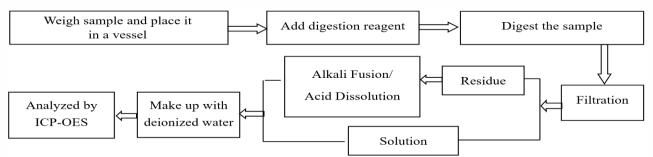
Report No. A2230377936120R1

Test Process

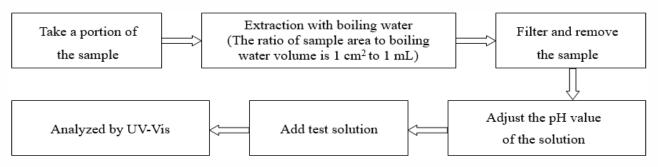
1. Lead (Pb), Cadmium (Cd)



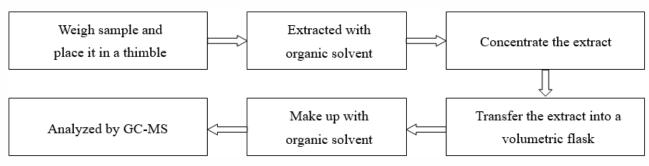
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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



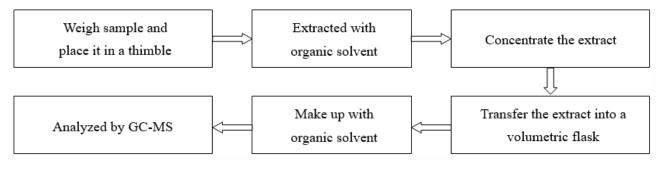
Page 6 of 8



Report No. A2230377936120R1

Page 7 of 8

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



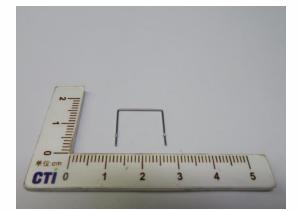


Report No. A2230377936120R1

Page 8 of 8

Photo(s) of the sample(s)

Final Product





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 ***

