







Report No. A223014320310101 Page 1 of 14

Company Name YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.6 HEYE WEST ROAD, HANJIANG DISTRICT, YANGZHOU, CHINA

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

CTI Sample ID	Sample Name(s)	Material
001		银色金属
002		白色固体
003		透明软固体
004		高温焊片
005		-
006	Module	-
007		1
008		
009		-
010		ľ
011		

Sample Received Date Mar. 31, 2023

Testing Period Mar. 31, 2023 to Apr. 20, 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).

Chen kaimin
Lab Manager

The International Pinbiao(Shanghai) Co., Ltd.

Date Apr. 21, 2023

No. R475311936

No.1351, Wanfang Road, Minhang District, Shanghai, China



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Conclusion		
Tested Sample	According to standard/directive	Result
Cubmitted Comple	RoHS Directive 2011/65/EU with	PASS
Submitted Sample	amendment (EU) 2015/863	PASS
*******	*****************	*******
PASS means that the results sho	wn 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)	
Load (Dh.)	IEC 62321-5:2013	ICP-OES	
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES	
Codenium (Cd)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES	
Managery (Ha)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
Mercury (Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICF-UES	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	U V-VIS/ICP-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02521-0:2015	GC-MS	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	

Test Result(s)

Tested Item(s)	Result			MDL	Limit	
rested tem(s)	001	002	003	WIDL	Limit	
Lead (Pb)	N.D.	11 mg/kg	N.D.	2 mg/kg	1000 mg/kg	
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg	
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg	
		N.D.	N.D.	8 mg/kg	1000 mg/kg	
Hexavalent Chromium (Cr(VI))	N.D. [▼]				0.10 μg/cm ²	1000 mg/kg
				(LOQ)	1000 mg/kg	

Tested Item(s)	Result			MDL	Limit
	004	005	006	MIDL	Lillit
Lead (Pb)	902259	ND	ND	2 m = //r =	1000 //
	mg/kg*	N.D.	2 mg/kg	1000 mg/kg	
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
				8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]	N.D. [▼]	N.D. [▼]	0.10 μg/cm ²	1000 ma/lza
	N.D. N.D.	N.D.	N.D.	(LOQ)	1000 mg/kg



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Tested Item(s)	Result			MDL	Limit
Tested Item(s)	007	008	009	WIDL	Lillit
Lead (Pb)	N.D.	N.D.	38 mg/kg	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
		N.D.		8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]		N.D. [▼]	0.10 μg/cm ²	1000 mg/kg
	N.D.	N.D.	(LOQ)	1000 mg/kg	

Tested Item(s)	Res	MDL	Limit	
rested item(s)	010	011	WIDL	Limit
Lead (Pb)	72 mg/kg	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
	N.D.		8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))		N.D. [▼]	0.10 μg/cm ² (LOQ)	1000 mg/kg

Tested Item(s)	Result			MDL	Limit
Tested Item(s)	002	003	008	MIDL	Liiiit
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	1000 m a/lsa
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	



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Tested Item(s)	Result	MDL	Limit
rested item(s)	010	WIDL	Limit
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 /1
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	
rested item(s)	002	003	008	WIDL	Limit	
Polybrominated Diphenyl Ethers	Polybrominated Diphenyl Ethers (PBDEs)					
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	1000 m ~ /lr~	
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	1000 mg/kg	
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg		



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Tested Item(s)	Result	MDL	Limit
Tested Item(s)	010	NIDL	Liiiit
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 //
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	

Tested Item(s)	Result			MDL	Limit	
Tested Item(s)	002	003	008	WIDL	Limit	
Phthalates (DBP, BBP, DEHP, DI	Phthalates (DBP, BBP, DEHP, DIBP)					
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg	
CAS#:84-74-2	IV.D.	N.D.	N.D.	30 mg/kg	1000 mg/kg	
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg	
CAS#:85-68-7	IV.D.	N.D.	N.D.	30 mg/kg	1000 mg/kg	
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg	
(DEHP) CAS#:117-81-7	IV.D.	N.D.	N.D.	30 mg/kg	1000 mg/kg	
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg	
CAS#:84-69-5	IN.D.	N.D.	N.D.	JO mg/kg	1000 Hig/kg	

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Tested Item(s)	Result	MDL	Limit
Tested Item(s)	010	WEE	
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP)	N.D.	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)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5	N.D.		

Tested Item(s)	Result		MDL	Limit
	001	004	WIDL	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	1000 //
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	
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	
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	



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Tested Item(s)	Result		- MDL	Limit	
	001	004	MIDL	Lillit	
Polybrominated Diphenyl Ethers	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 = //r=	
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		

Tested Item(s)	Result		MDL	Limit
	001	004		Limit
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2				
Butyl benzyl phthalate (BBP)	N.D.	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 mg/kg
(DEHP) CAS#:117-81-7		N.D.	50 Hig/kg	1000 Hig/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D. N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5		N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Metal base
2	002	White plastic
3	003	Colorless transparent adhesive
4	004	Silvery metal
5	005	Silvery plating
6	006	Metal base
7	007	Silvery metal wire
8	008	Chip
9	009	Cupreous metal
10	010	White ceramic
11	011	Silvery plating



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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 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.
- -*=According 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).
- -The test result(s) of this report is/are presented in reference to the result(s) that reported in A2230143203101.

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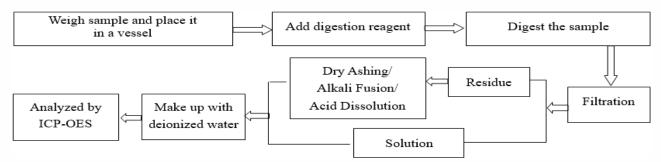


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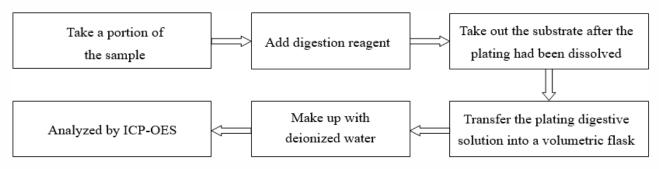
Test Process

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

(1) IEC 62321-5:2013

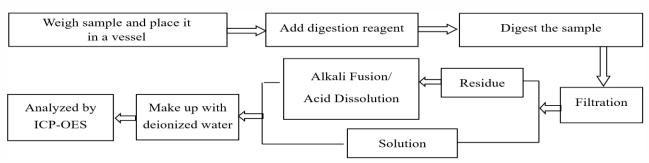


(2) Refer to IEC 62321-5:2013

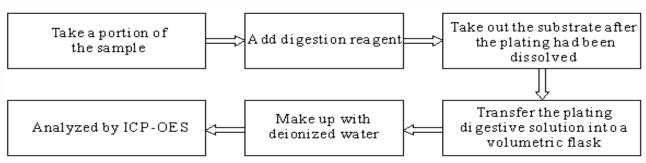


2. Mercury (Hg)

(1) IEC 62321-4:2013+AMD1:2017 CSV



(2) Refer to IEC 62321-4:2013+AMD1:2017 CSV

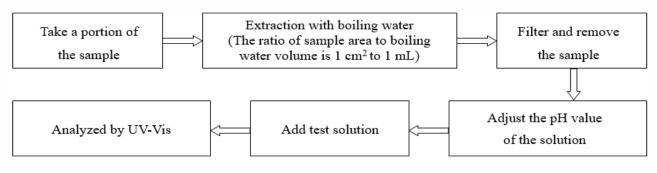




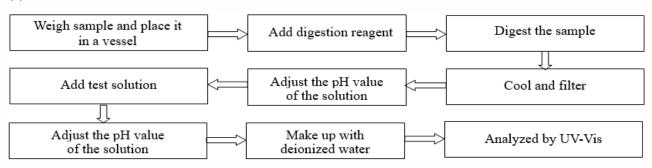
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3. Hexavalent Chromium (Cr(VI))

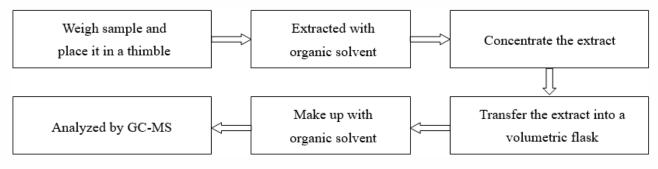
(1) IEC 62321-7-1:2015



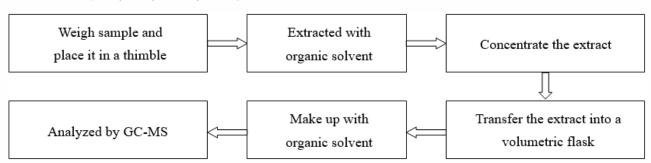
(2) IEC 62321-7-2:2017



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



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

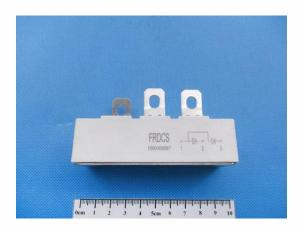




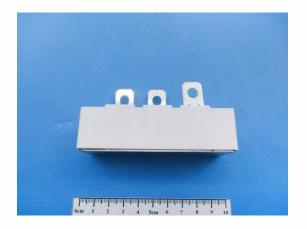
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Photo(s) of the sample(s)

Final Product



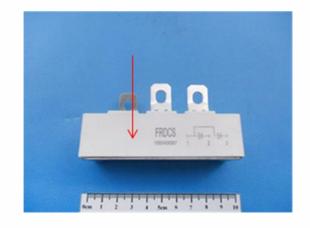
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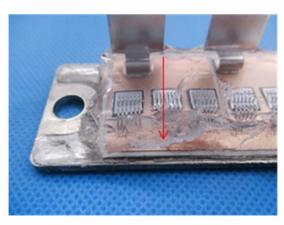
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003



004







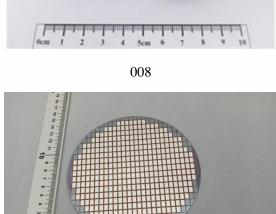
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005

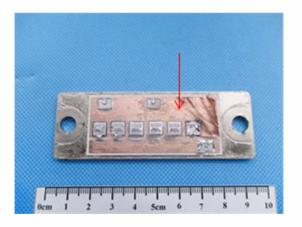


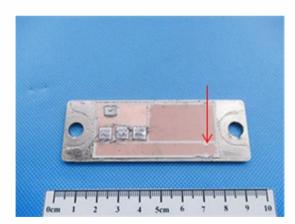
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007



009 010







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011



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 ***



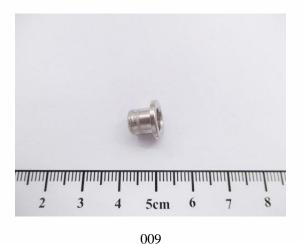
Appendix

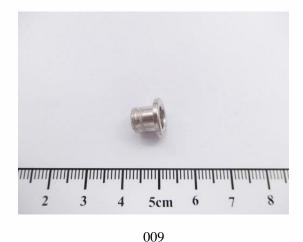
Client Reference Information

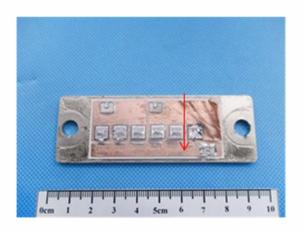
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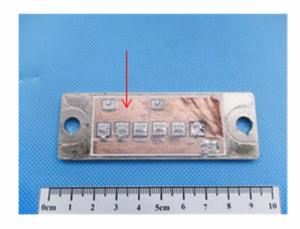
Client Reference Photo(Non-tested sample)

005 006









Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A223014320310101.