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Company Name shown on Report

JIANGSU MICRO COMMERCIAL COMPONENTS CO., LTD

Address NO.6, WEST HEYE ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE,

HANJIANG, YANGZHOU, JIANGSU, CHINA

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

the applicant

Sample No.	Sample Name(s)	Material
001		银色金属
002	M - 1-1-	白色固体
003	Module	透明软固体
004		高温焊片

Sample Received Date Apr. 22, 2022

Testing Period Apr. 22, 2022 to Apr. 26, 2022

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

 Submitted Sample
 RoHS Directive 2011/65/EU with 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.

Tested by Guoqing Dai Reviewed by Guerre Teng

Wenjun Wang

Date

Apr. 29, 2022

Technical Director

检验检测专用章 Gentred Texting Staterns donal Group Co., Ltd. Shunde Branch No. R200821941

Yong ving Building, Section 2, No.8, East of Rongqi Avenue, Ronggui, Shunde District, Foshan, Guangdong, 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	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	GC-IVIS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

Test Result(s)

Tested Item(s)	Result			MDL	Limit
rested item(s)	001	002	003	MIDL	Limit
Lead (Pb)	14 mg/kg	N.D.	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/cm² (LOQ)	1000 mg/kg
	N.D.				1000 mg/kg

Tested Item(s)	Result	MDL	Limit
rested tem(s)	004	WIDL	
Lead (Pb)	965400 mg/kg ^{#1, #2}	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
		8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]	0.10 μg/cm ²	1000 mg/kg
	IN.D.	(LOQ)	1000 mg/kg



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Tested Item(s)	Re	sult	MDL	Limit
rested ftem(s)	002	003	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	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 m a/lra
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	

Tested Item(s)	Re	esult	MDL	Limit
resicu rein(s)	002	003		Dillit
Polybrominated Diphenyl Ether	s (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 ma/lsa
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)	Re	esult	MDL	Limit
resteu riem(s)	002	003		Lillit
Phthalates (DBP, BBP, DEHP, D	IBP)			
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 mg/kg	1000 ma/ka
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.	N.D.	50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP)	N.D.	N.D.	50 m o/ls o	1000 m a/lra
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	ND	ND	50 /1	1000 /1
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Re	sult	MDL	Limit
Tested Item(s)	001	004		Lillit
Polybrominated Biphenyls (PBBs	s) *			
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 /1
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)	Re	esult	MDL	Limit
rested item(s)	001	004	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 mg/kg
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)	Res	sult	MDL	Limit
rested item(s)	001	004	WIDL	Limit
Phthalates (DBP, BBP, DEHP, DI	BP) *			
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 ma/lza	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 ma/lza	1000 mg/kg
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP)	N.D.	N.D.	50 ma/lza	1000 mg/kg
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/l/g	1000 mg/kg
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg



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Sample/Part Description

001 Silvery metal
002 White plastic
003 Transparent glue
004 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 μg/cm²
- The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.
- -#1: 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 of more lead), the test results are for reference only.
 -#2:The test results are for reference only.
- -According to the client's statement, the Company Name shown on Report in this report and the Company Name shown on Report in the report A2220154387101 are the Group-subsidiary relations, the test result(s) of this report is/are presented in reference to the result(s) that reported in A2220154387101.

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

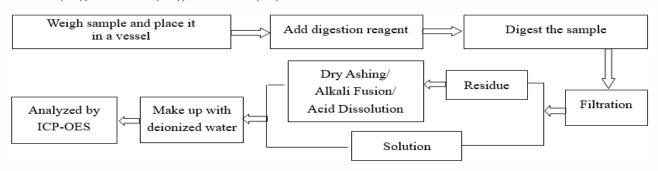
-*: Indicates the method(s)/ item(s) is/are not in CNAS accreditation scope.



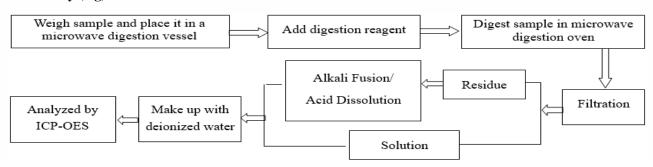
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Test Process

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

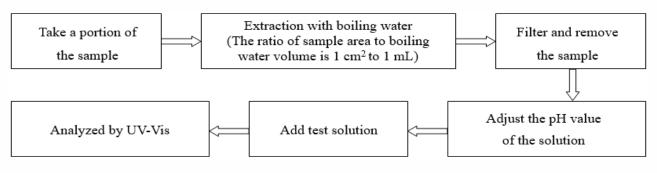


2. Mercury (Hg)

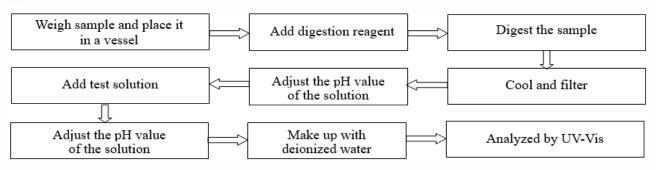


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



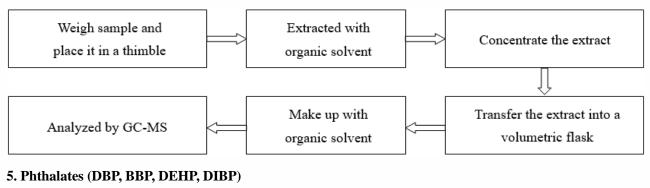
(2) IEC 62321-7-2:2017

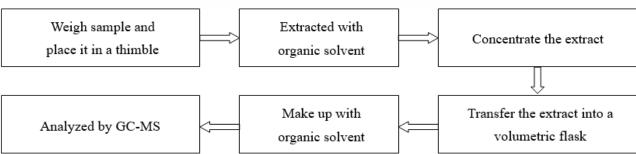




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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)





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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Photo(s) of the sample(s)

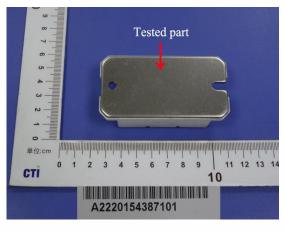
Final Product



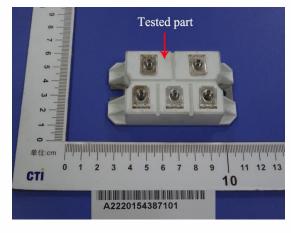
Final Product



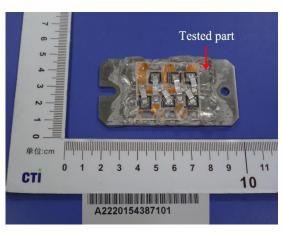
001



002



003



004





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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. 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

D1、D2、DA、M1、M2、NM2、M3、NM3、M4、M5、M7、M8、F3、F4N、F5、F6、FJ、C1、C2、L1、L2、T1、T2、D1N、MT、GJ、F1、F2、F2N、FS、P1、P2、P3、E1、E1A、E2、E2A、M9、T1A、T1D、F1N、T2A、C21、C3、E3、P4

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 A222015438710102.