



检测报告

Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 1 页 共 10 页
Page 1 of 10

报告抬头公司名称 杭州富阳中荷电子有限公司
Company Name HANGZHOU FUYANG ZHONGHE ELECTRONIC CO.,LTD
shown on Report
地址 中国浙江省杭州市富阳区场口镇东梓关中荷路 1 号
Address NO.1 ZHONGHE RD., DONGZI GUAN, CHANGKOU,
FUYANG, HANGZHOU, ZHEJIANG, CHINA

以下测试之样品及样品信息由申请者提供并确认

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

样品序号 Sample No.	样品名称 Sample Name(s)	样品颜色 Color	材料名称 Material
001	接头 Itiger	白色	POM
002	接头 Itiger	/	丁晴橡胶
003	接头 Itiger	灰色	POM
004	接头 Itiger	/	SUS304

样品接收日期 2021.12.28
Sample Received Date Dec. 28, 2021
样品检测日期 2021.12.28-2021.12.31
Testing Period Dec. 28, 2021 to Dec. 31, 2021

检测要求 根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行测试。

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).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).

主 检 孙 婵
Tested by

审 核 方 理 松
Reviewed by

批准 郑晴涛
Approved by

日 期 2021.12.31
Date

技术经理 Technical Manager

No. R228412531

华测检测认证集团股份有限公司
Centre Testing International Group Co., Ltd.

广东省深圳市宝安区新安街道兴东社区华测检测大楼

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

检测报告
Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 2 页 共 10 页
Page 2 of 10

结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟 RoHS 指令 2011/65/EU 及其修订指令 (EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

符合表示检测结果满足欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863 要求的限值。
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.

检测报告
Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 3 页 共 10 页
Page 3 of 10

检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总 铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

检测报告
Test Report

报告编号 A221054869910101E 第4页 共10页
Report No. A221054869910101E Page 4 of 10

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result			方法检出限 MDL	限值 Limit
	001	002	003		
铅 Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg	1000 mg/kg
	--	--	--	0.10 µg/cm² (LOQ)	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	--	8 mg/kg	1000 mg/kg
	N.D. ▼	0.10 µg/cm ² (LOQ)	

测试项目 Tested Item(s)	结果 Result			方法检出限 MDL	限值 Limit	
	001	002	003			
多溴联苯 Polybrominated Biphenyls (PBBs)						
一溴联苯 Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg	1000 mg/kg	
二溴联苯 Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
三溴联苯 Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
五溴联苯 Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
六溴联苯 Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
七溴联苯 Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
八溴联苯 Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
九溴联苯 Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		
十溴联苯 Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg		

检测报告
Test Report报告编号 A221054869910101E
Report No. A221054869910101E第 5 页 共 10 页
Page 5 of 10

测试项目 Tested Item(s)	结果 Result			方法检出限 MDL	限值 Limit
	001	002	003		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)					
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result			方法检出限 MDL	限值 Limit
	001	002	003		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)					
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg

检测报告 Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 6 页 共 10 页
Page 6 of 10

样品/部位描述 Sample/Part Description

- 001 白色塑料 White plastic
- 002 黑色橡胶 Black rubber
- 003 灰色塑料 Gray plastic
- 004 银色金属 Silvery metal

备注: 对于检测铅, 镉, 汞之样品已消解完全。
-N.D. = 未检出 (小于方法检出限或定量限)
-mg/kg = ppm = 百万分之一
-1000 mg/kg=0.1%
-LOQ = 定量限, 六价铬的定量限为 0.10 $\mu\text{g}/\text{cm}^2$
-▼六价铬浓度小于 0.10 $\mu\text{g}/\text{cm}^2$, 样品未检出六价铬。
-本报告的测试结果引自于报告 A221054869910101E。

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 $\mu\text{g}/\text{cm}^2$
-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$. The coating is considered a non-Cr(VI) based coating.
-The test result(s) is(are) presented in reference to the result(s) that reported in A221054869910101E.

检测报告

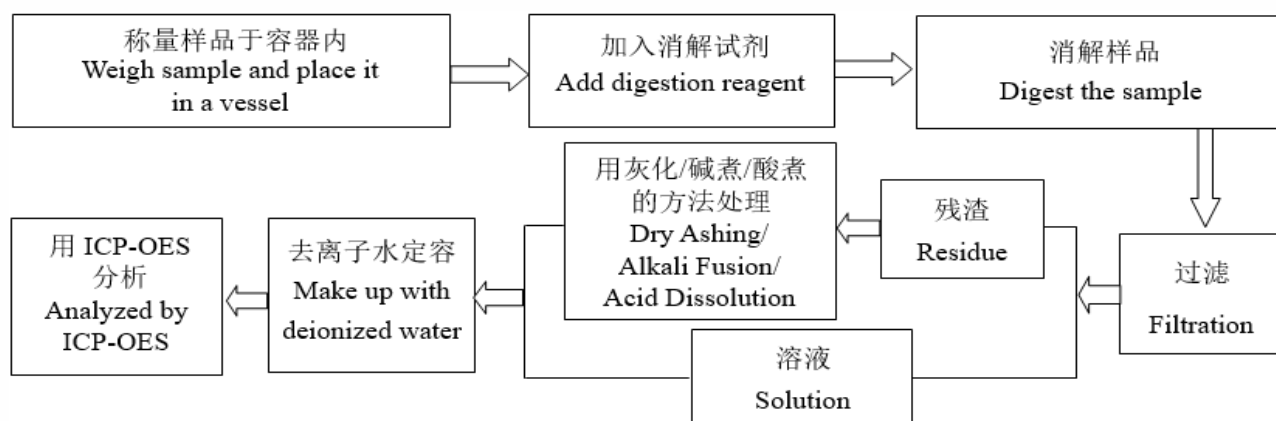
Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

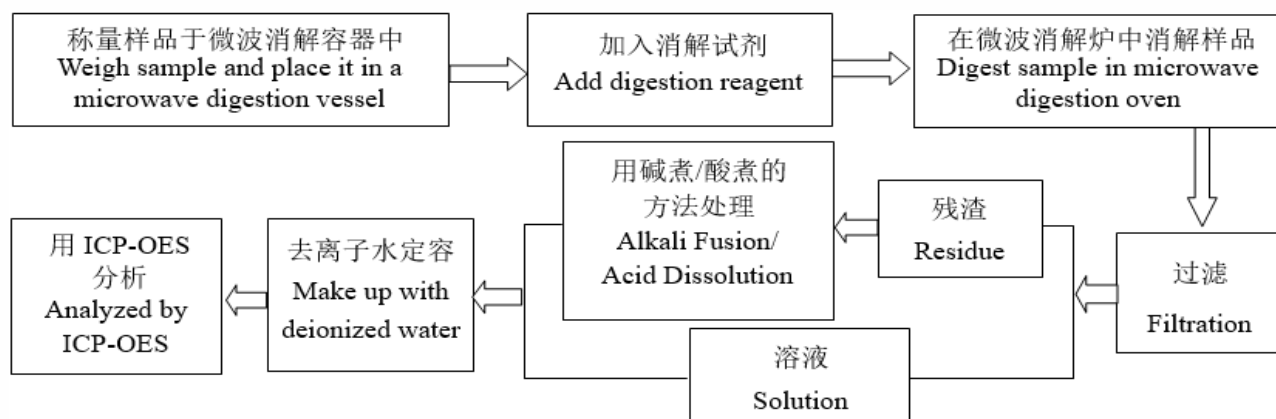
第 7 页 共 10 页
Page 7 of 10

检测流程 Test Process

1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)

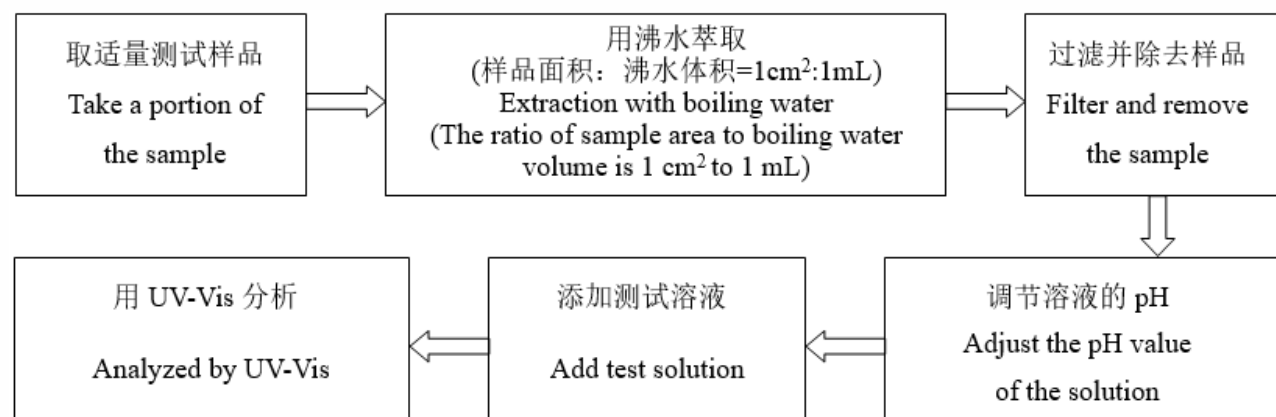


2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015

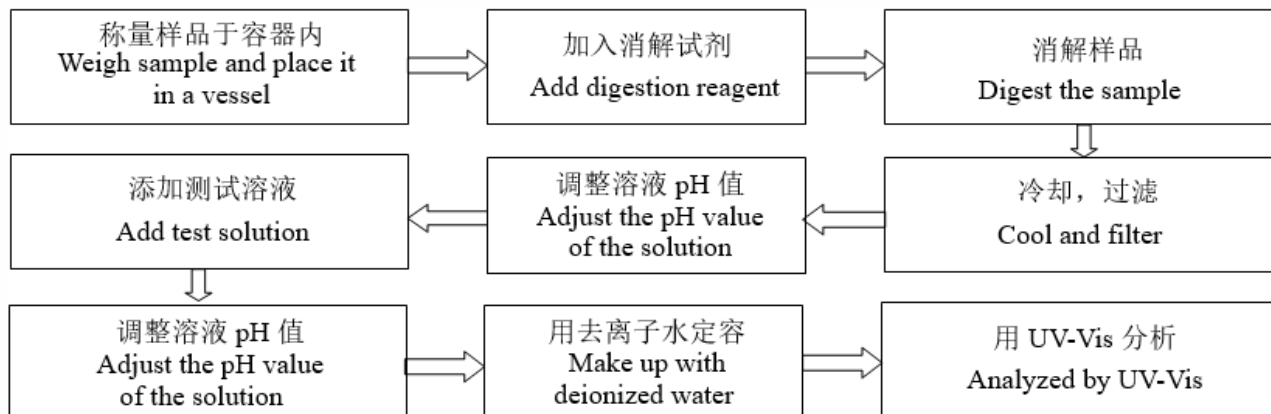


检测报告 Test Report

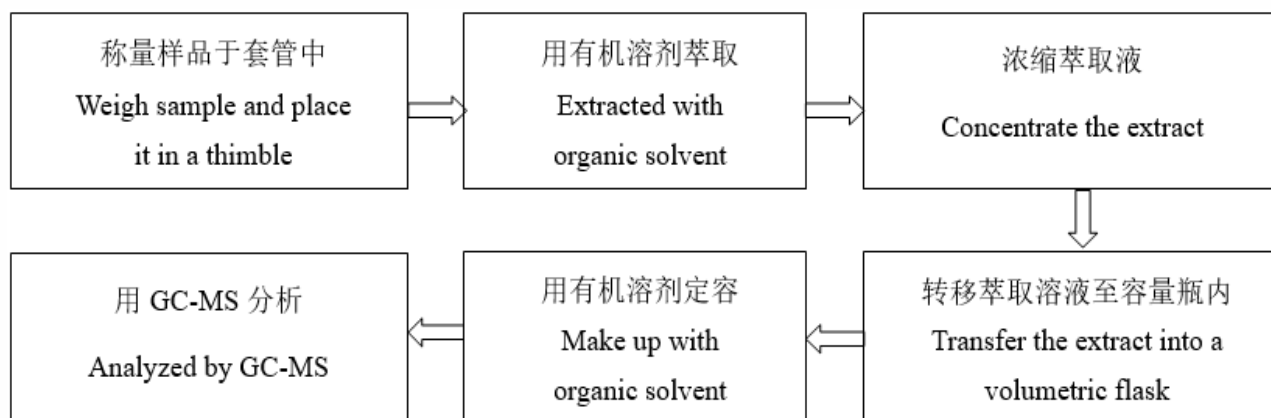
报告编号 A221054869910101E
Report No. A221054869910101E

第 8 页 共 10 页
Page 8 of 10

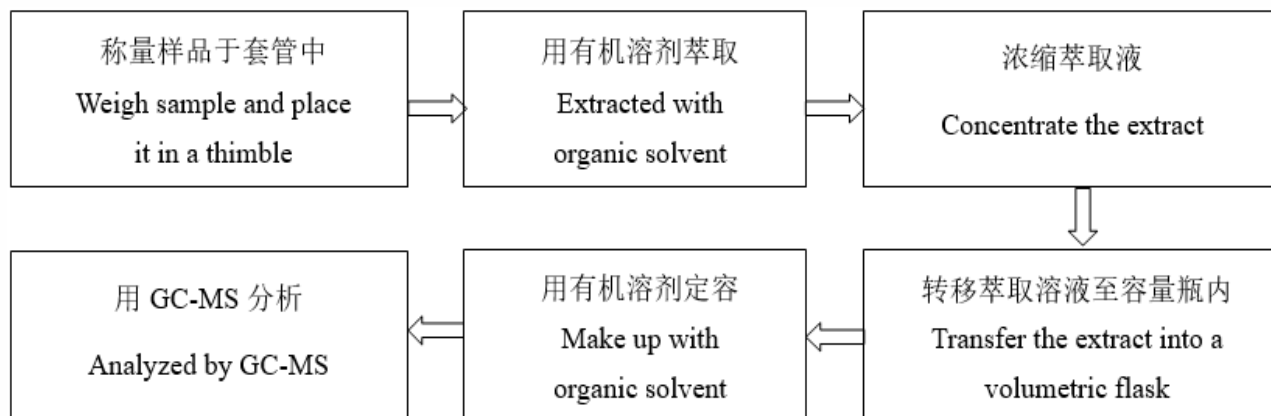
(2) IEC 62321-7-2:2017



4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



检测报告 Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 9 页 共 10 页
Page 9 of 10

样品图片

Photo(s) of the sample(s)

001



002



003



004



检测报告 Test Report

报告编号 A221054869910101E
Report No. A221054869910101E

第 10 页 共 10 页
Page 10 of 10

声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;

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. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 未经 CTI 书面同意, 不得部分复制本报告;

Without written approval of CTI, this report can't be reproduced except in full;

5. 如检测报告中的英文内容与中文内容有差异, 以中文为准。

In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***

*** End of Report ***

附录 Appendix

客户参考图片（非测试样品） Client Reference Photo (Non-tested sample)

001-002



003-004



声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。
The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. 附录内容为 A221054869910101E 报告的补充。
The Appendix Information is/are the supplement(s) for the Report A221054869910101E.