

测试报告

No. CANEC1204011203

日期: 2012年04月16日

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梅州市中联精密电子有限公司

中国广东省梅州市经济开发区B区第三单元

以下测试之样品是由申请者所提供及确认: PCB

SGS工作编号: CP12-015577 - SZ

样品接收日期: 2012年04月10日

测试周期: 2012年04月10日 - 2012年04月16日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: A:基于所送样品进行的测试, 铅、镉、汞、六价铬、多溴联苯、多溴二苯醚的测试结果符合欧盟RoHS指令2002/95/EC的重订指令2011/65/EU附录II的限值要求。

通标标准技术服务有限公司

授权签名



Annie Liang 梁小芬

批准签署人

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	CAN12-040112.002	绿色“PCB”

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

A:RoHS 指令 2011/65/EU

测试方法:

参考IEC 62321:2008:

- (1) 用ICP-OES测定镉的含量.
- (2) 用ICP-OES测定铅的含量.
- (3) 用ICP-OES测定汞的含量.
- (4) 用紫外-可见分光光度计比色法测定六价铬的含量
- (5) 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

测试项目	限值	单位	MDL	002
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND

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测试项目	限值	单位	MDL	002
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

(1) 最大允许极限值引用自指令2011/65/EU 附录II

B:五氯苯酚 (PCP)

测试方法: 参照LFGB § 64 BVL B 82.02.08:2001方法测定, 采用GC-ECD或GC-MS进行分析.

测试项目	单位	MDL	002
五氯苯酚 (PCP)	mg/kg	0.5	ND

备注:

(1) 五氯苯酚 (PCP)参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第22条(前身为1999/51/EC)的要求: PCP不能被投放市场,或使用:
 - 作为物质
 - 于质量分数等于或高于0.1%的其他物质或者混合物
 详细信息请参见Regulation (EC) No 552/2009

C:全氟辛烷磺酰基化合物(PFOS)和全氟辛酸(PFOA)

测试方法: 参照US EPA 3550C: 2007方法测定, 采用HPLC-MS进行分析.

测试项目	单位	MDL	002
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	µg/m ²	1	ND
全氟辛酸 (PFOA)	µg/m ²	1	ND

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备注:

- (1) PFOS 参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第53条 (前身为2006/122/EC)
- (i) PFOS作为纯物质或者制备原料时,若浓度大于等于0.005%(重量)则不可以投放市场。
- (ii) PFOS用于半成品、成品或零部件时,若浓度大于等于0.1%(参照明确含有PFOS结构或者微结构部分重量计算)则不可以投放市场; 对于纺织品或其它涂层材料, 若PFOS的含量大于或等于 $1\mu\text{g}/\text{m}^2$ (相对于涂层部分)则不可以投放市场。
- 详细信息请参见Regulation (EC) No 552/2009

D:中链氯化石蜡 (MCCP)

测试方法: 参照US EPA 8270D: 2007方法测定, 采用GC-ECD进行分析.

测试项目	单位	MDL	002
中链氯化石蜡 (MCCP)	mg/kg	50	ND

备注1: 测试是基于申请人要求整体 (部分) 混合进行测试。

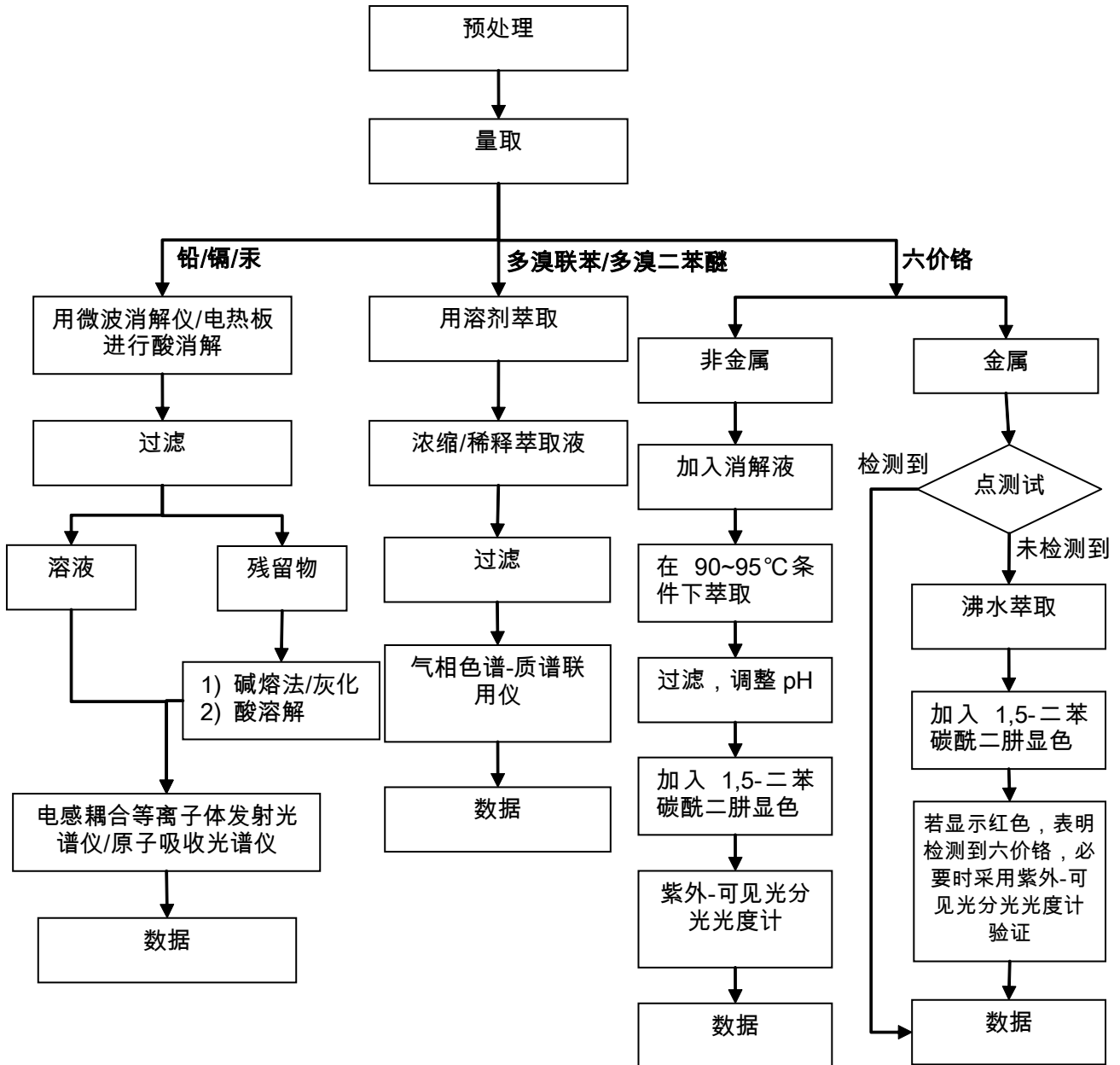
备注2: 本测试报告内容是参照报告编号为CANEC1204011202的中文译本, 中英文版本如有歧异, 概以英文版为准。

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附件

RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。

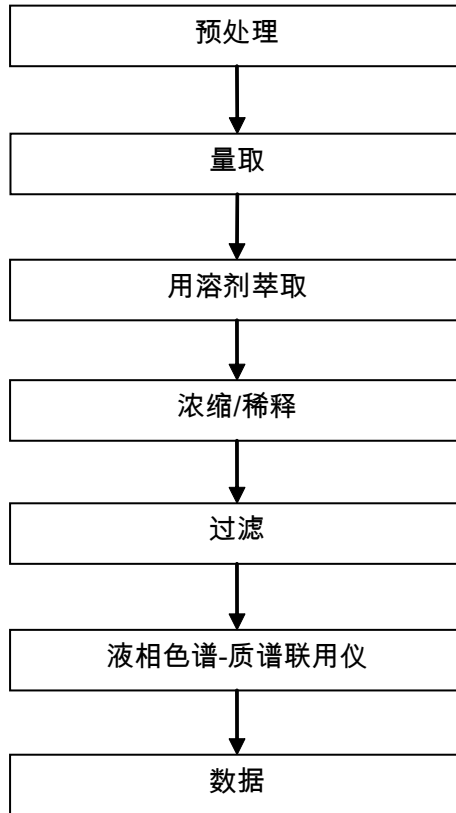


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附件

PFOA / PFOS 测试流程图

- 1) 分析人员: 黄少婵
- 2) 项目负责人: 杨伟兴

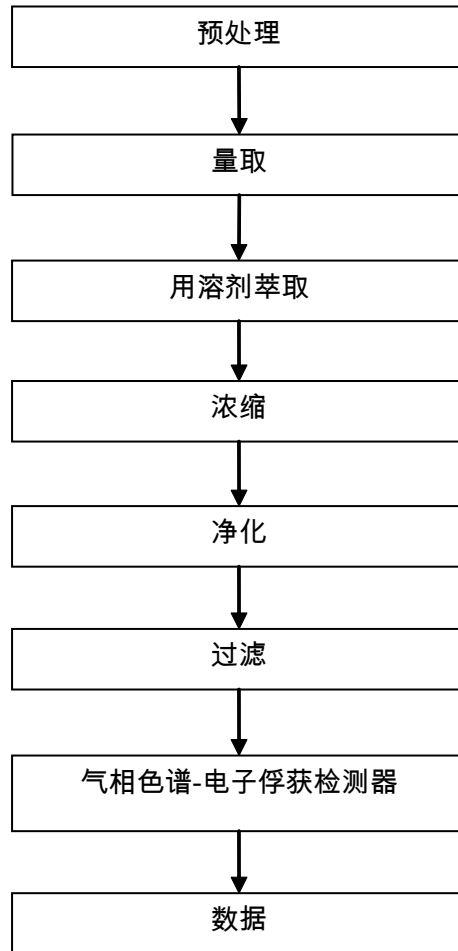


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附件

SCCP/MCCP 测试流程图

- 1) 分析人员: 赵瑞娜
- 2) 项目负责人: 杨伟兴



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*** 报告完 ***

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