

测试报告

No. CANEC2116666104

日期: 2021年09月09日 第1页,共9页

深圳市锦锐科技股份有限公司

深圳市南山区沙河西路深圳湾科技生态园一区2栋B座5层B01

以下测试之样品是由申请者所提供及确认: 微型处理器(CA51F2L2-S2)

SGS工作编号: CP21-048535 - GZ

型号: CA51F2L2-S2

客户参考信息: 见备注

样品接收日期: 2021年09月06日

测试周期: 2021年09月06日 - 2021年09月09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: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苯酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司
授权签名

陈江梨

Allie Chen陈江梨
批准签署人

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198 Kezhu Road, Sciotech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663

中国·广州·经济技术开发区科学城科珠路198号

邮编: 510663

t (86-20) 82155555

t (86-20) 82155555

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN21-166661.004	带棕色印字&芯片的黑色物料
SN2	CAN21-166661.005	带铜色表层和芯片的银色金属
SN3	CAN21-166661.006	银色金属引脚

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

测试项目	限值	单位	MDL	004
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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测试项目	限值	单位	MDL	004
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
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

测试项目	限值	单位	MDL	005	006
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1,000	mg/kg	2	3	8
汞 (Hg)	1,000	mg/kg	2	ND	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(3) ▼a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时, 样品为阴性, 即未检测到六价铬;c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬,

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因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

除非另有说明,此报告结果仅对测试的样品负责。本报告未经本公司书面许可,不可部分复制。检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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备注:

CA51F003D, CA51F003S1, CA51F003S3, CA51F003T3, CA51F003N1, CA51F003N2, CA51F003M1, CA51F003M2, CA51F003S4, CA51F005D, CA51F005S1, CA51F005S3, CA51F005T3, CA51F005N1, CA51F005N2, CA51F005M1, CA51F005M2, CA51F005S4, CA51F025D, CA51F025S1, CA51F025S3, CA51F025T3, CA51F025N1, CA51F025N2, CA51F025M1, CA51F025M2, CA51F025S4, CA51F1D, CA51F1S1, CA51F122S1, CA51F122N0, CA51F122M1, CA51F152S1, CA51F152N0, CA51F152M1, CA51F3S1-S2, CA51F3S3-S2, CA51F3P4-S2, CA51F3S4-S2, CA51F3S6-S2, CA51F3P6-S2, CA51F3N2-S2, CA51F351S1-S2, CA51F351S3-S2, CA51F352S3-S2, CA51F353S3-S2, CA51F351S4-S2, CA51F352S4-S2, CA51F353S4-S2, CA51F351P4-S2, CA51F352P4-S2, CA51F353P4-S2, CA51F351P5-S2, CA51F352P5-S2, CA51F353P5, CA51F351S6-S2, CA51F352S6-S2, CA51F353S6-S2, CA51F351P6-S2, CA51F352P6-S2, CA51F353P6-S2, CA51F5D-S2, CA51F5S1-S2, CA51F5S3-S2, CA51F551S1-S2, CA51F551N1-S2, CA51F551N2-S2, CA51F551M2-S2, CA51F551S3-S2, CA51F251L2-S2, CA51F252L2-S2, CA51F253L2-S2, CA51F2L3-S2, CA51F251L3-S2, CA51F252L3-S2, CA51F253L3-S2, CA51F213L2-S2, CA51F225L2-S2, CA51F213L3-S2, CA51F215L3-S2, CA51F4D, CA51F452L2, CA51F412L2, CA51F452S6, CA51F412S6, CA51F412P6, CA51F452P6, CA51F4L2, CA51F4N2, CA51F4N3, CA51F4N5, CA51F4N6, CA51F7D, CA51F7T3, CA51F7S3, CA51F752T3, CA51F752S3, CA32F02L2, CA32F02S6, CA32F02P6, CA32F0256L2, CA32F0256L1, CA32F0256L0, CA32F0256S6, CA32F0256P6, CA32F0256N2, CA32F0256N3, CA32F0256N5, CA32F0256N6, CA32F0155S6, CA32F0155P6, CA32F0155N2, CA32F01S6, CA32F01P6, CA32F01T3, CA32F0155T3, CA32F0155S4, CA32F0155N3



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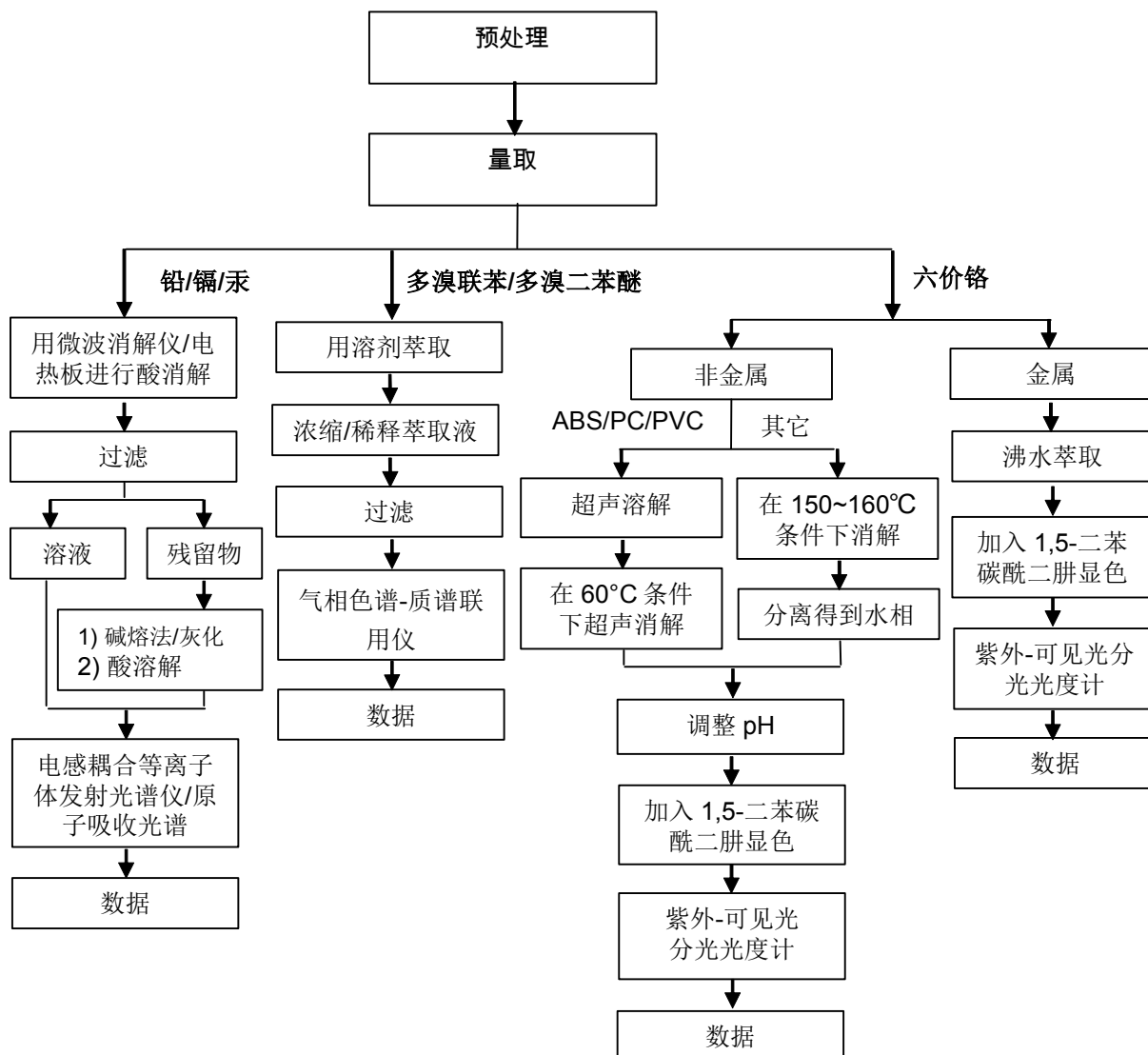
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附件

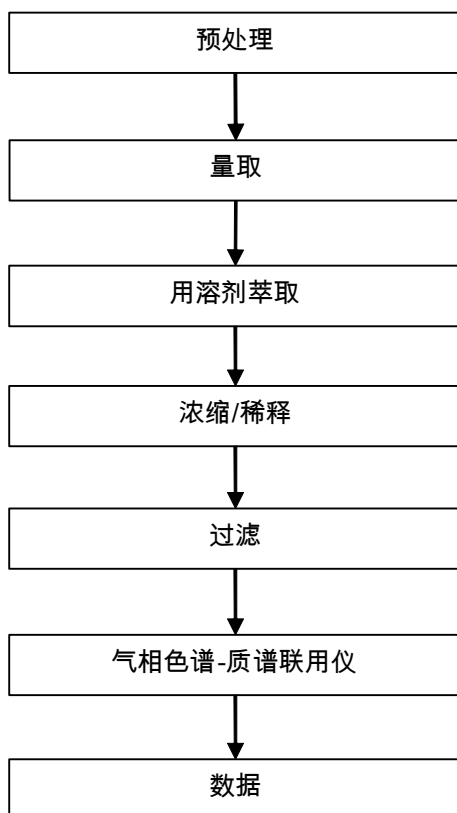
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

1) 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)。



附件

Phthalates 测试流程图

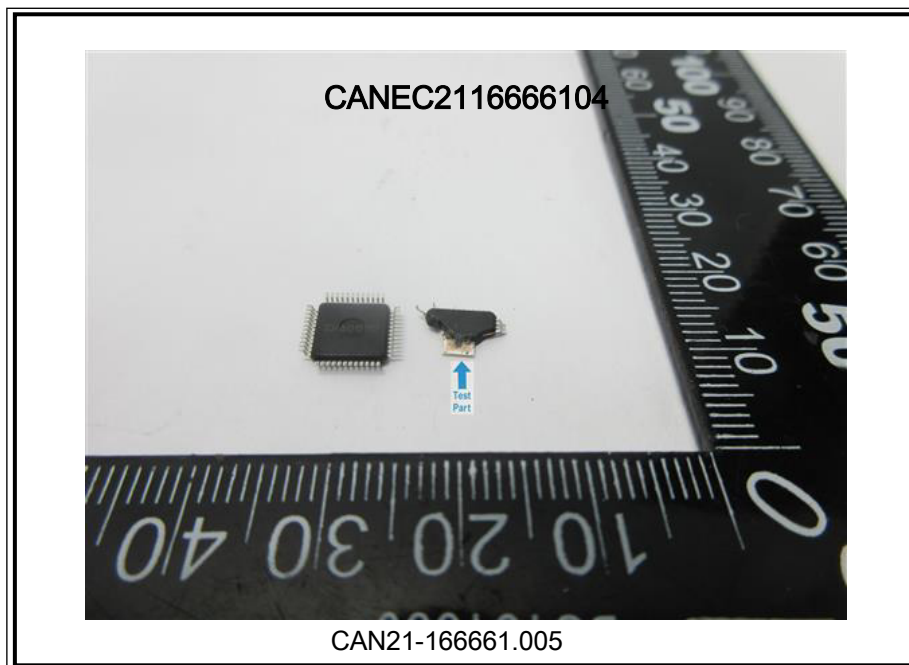
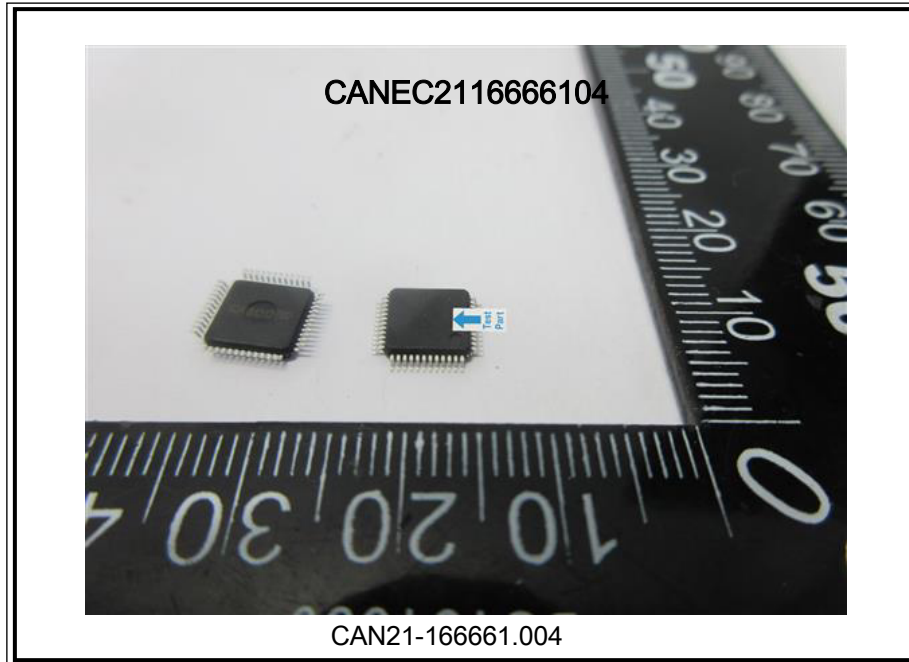


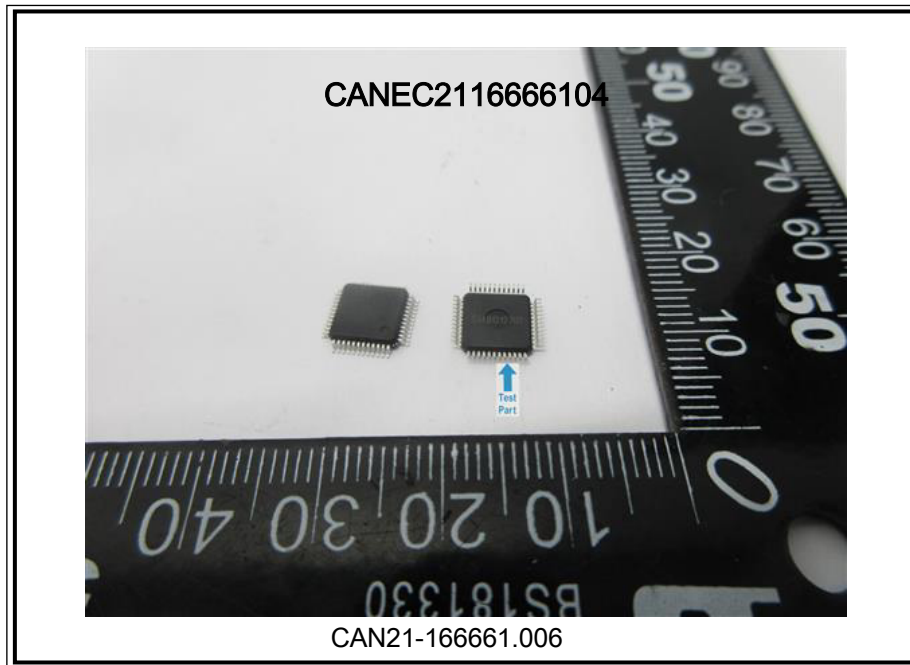
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*** 报告完 ***

