

测试报告 No. SHAEC2117523902 日期: 2021年08月23日 第1页,共8页

上海中基国威电子股份有限公司 上海市浦东新区金新路58号19楼

以下测试之样品是由申请者所提供及确认:集成电路

SGS工作编号: SP21-025392 - SH

型号: 8 BIT MCU

客户参考信息: SOP8,SOP14,SOP16,SOP20,TSSOP20,TSSOP28,SSOP28,QFN20,QFN32,LQ

FP32

样品接收日期: 2021年08月13日

测试周期: 2021年08月13日 - 2021年08月17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

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Tom Ni倪俊 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

SN1 SHA21-175239.001 黑色本体带银色引脚(混合测*)

备注:

(1) 1 mg/kg = 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+AMD1:2017, 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。

| <u>测试项目</u> | 限值 | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------|------|-----------|------------|------------|
| 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 | 8 | 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 |
| 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 |
| | | | | |



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| 测试报告 | No. SHAEC2117523902 | 日期: 2021年08月23日 | 第3页,共8页 |
|------|---------------------|-----------------|---------|
| | | | |

| 测试项目 | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|-----------------------|-----------|-----------|------------|------------|
| 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) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸丁苄酯(BBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二异丁酯(DIBP) | 1000 | mg/kg | 50 | ND |

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。 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:12586

(2) 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。

*样品基于申请人要求为混合测试。报告中的混合测试结果不代表其中个别单一材质的含量,该测试 数据仅供参考。

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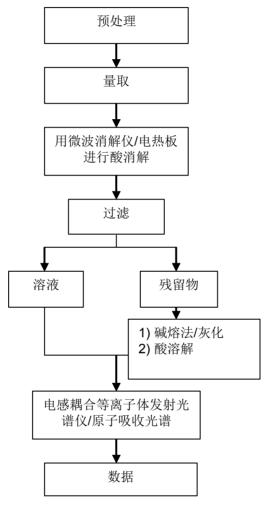
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日期: 2021年08月23日 第4页,共8页

附件

元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解





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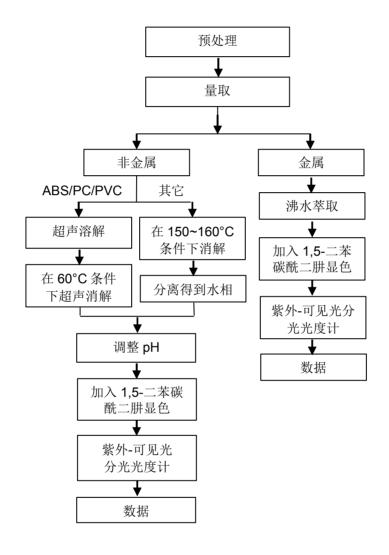


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附件

六价铬测试流程图





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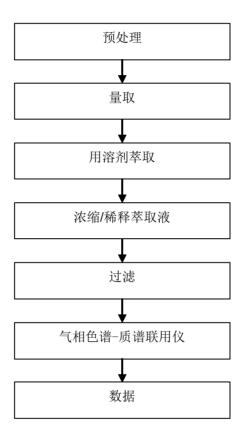


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附件

PBBs/PBDEs 测试流程图





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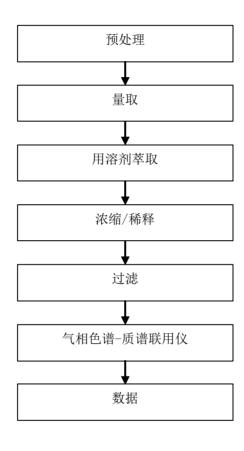


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Phthalates 测试流程图





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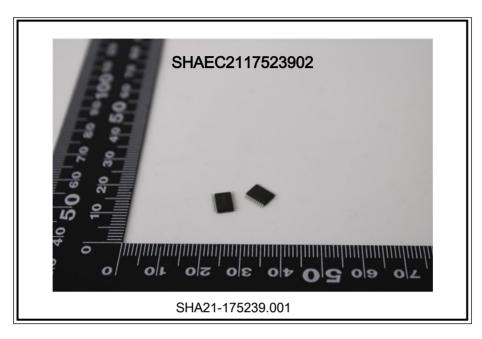
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