

## 检测报告

编号: CANEC2205023202

日期: 2022年04月06日 第1页,共9页

客户名称: 南京沁恒微电子股份有限公司

客户地址: 南京市宁双路18号

样品名称: 集成电路

型号: CH32F103C8T6

批号: 401542C08

客户参考信息: 请见REMARK

以上样品及信息由客户提供。

SGS工作编号: CP22-014031 - SZ

样品接收日期: 2022年03月28日

检测周期: 2022年03月28日 - 2022年04月06日

检测要求: 根据客户要求检测

检测方法: 请参见下一页

检测结果: 请参见下一页

结论: 基于所送样品进行的检测, 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)、邻苯二甲酸丁苄酯(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))的检测结果符合欧盟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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**检测报告**

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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN22-050232.001	银灰色金属
SN2	CAN22-050232.002	黑色本体
SN3	CAN22-050232.003	“集成电路”

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

检测方法: 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.

检测项目	限值	单位	MDL	002	003
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND
一溴联苯	-	mg/kg	5	ND	ND
二溴联苯	-	mg/kg	5	ND	ND
三溴联苯	-	mg/kg	5	ND	ND
四溴联苯	-	mg/kg	5	ND	ND
五溴联苯	-	mg/kg	5	ND	ND
六溴联苯	-	mg/kg	5	ND	ND
七溴联苯	-	mg/kg	5	ND	ND
八溴联苯	-	mg/kg	5	ND	ND
九溴联苯	-	mg/kg	5	ND	ND
十溴联苯	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND

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检测项目	限值	单位	MDL	<u>002</u>	<u>003</u>
三溴二苯醚	-	mg/kg	5	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯(DBP)	1,000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	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](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

检测方法: 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。

检测项目	限值	单位	MDL	<u>001</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	10
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	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

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(3) ▼=a. 当六价铬的浓度高于0.13 µg/cm<sup>2</sup>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/cm<sup>2</sup>)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/cm<sup>2</sup>与0.13 µg/cm<sup>2</sup>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, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。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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### REMARK:

CH132 CH221 CH224 CH225 CH226 CH227 CH228 CH231 CH232 CH233  
CH234 CH235 CH236 CH237 CH238 CH241 CH242 CH243 CH244 CH245  
CH246 CH311 CH312 CH313 CH314 CH315 CH316 CH317 CH318 CH319  
CH330 CH331 CH332 CH334 CH335 CH337 CH339 CH340 CH341 CH342  
CH343 CH344 CH345 CH348 CH350 CH351 CH352 CH353 CH354 CH355  
CH356 CH357 CH358 CH359 CH360 CH364 CH365 CH366 CH367 CH368  
CH370 CH372 CH374 CH375 CH376 CH378 CH382 CH384 CH392 CH395  
CH410 CH411 CH412 CH413 CH421 CH422 CH423 CH424 CH432 CH438  
CH440 CH441 CH442 CH443 CH444 CH445 CH446 CH447 CH448 CH449  
CH450 CH451 CH452 CH453 CH454 CH455 CH456 CH457 CH458 CH459  
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CH9516 CH9565 CH9566 CH9569 CH9573 CH9574 CH9575 CH9576 CH9577  
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CH32V103C8T6 CH32V103C8U6 CH32V103C6T6 CH32V103RBT6  
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CH32F203K8T6 CH32F203C6T6 CH32F203C8U6 CH32V203RBT6  
CH32V203K8T6 CH32V203G6U6 CH32V203F6P6 CH32V203C8T6  
CH32V203C6T6 CH32V203C8U6 CH32F205RBT6 CH32F207VCT6  
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CH32V307VCT6 CH32V307WCU6



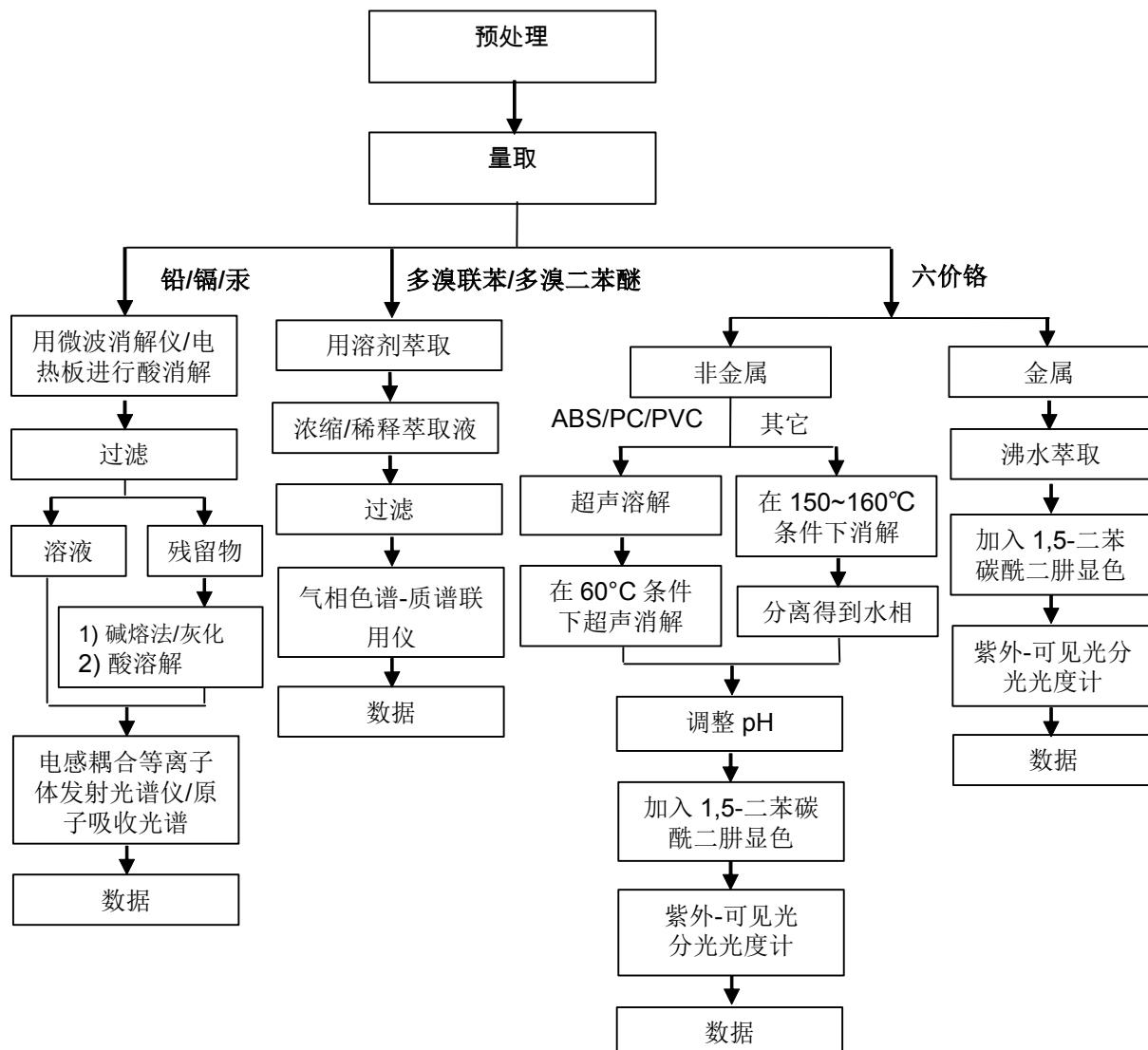
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## 附件

Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚检测除外)。



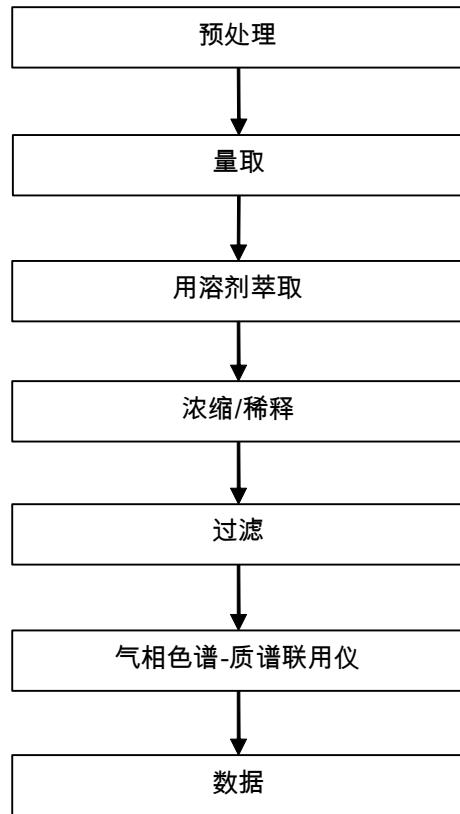
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**附件****Phthalates 检测流程图**

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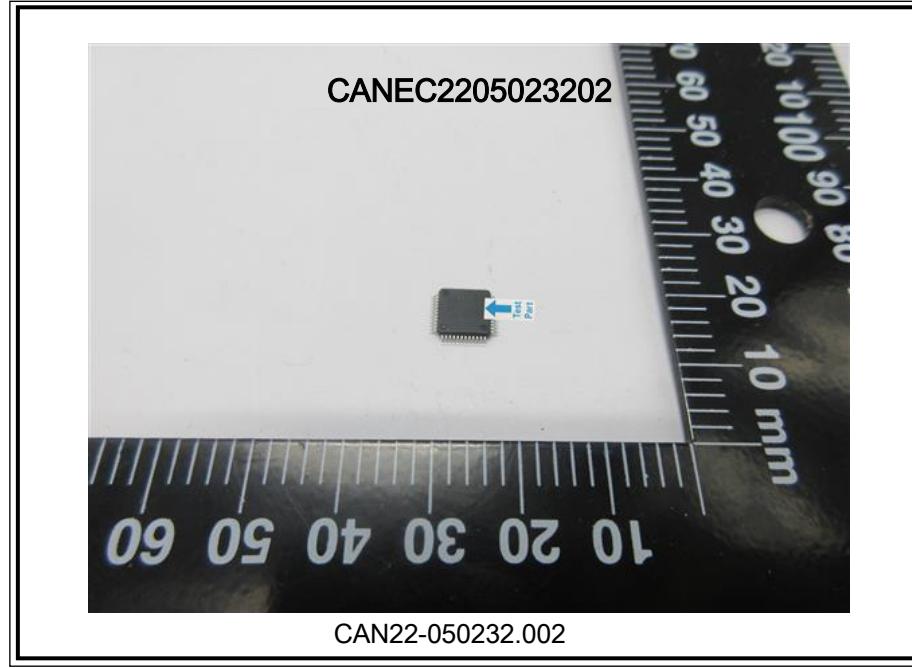
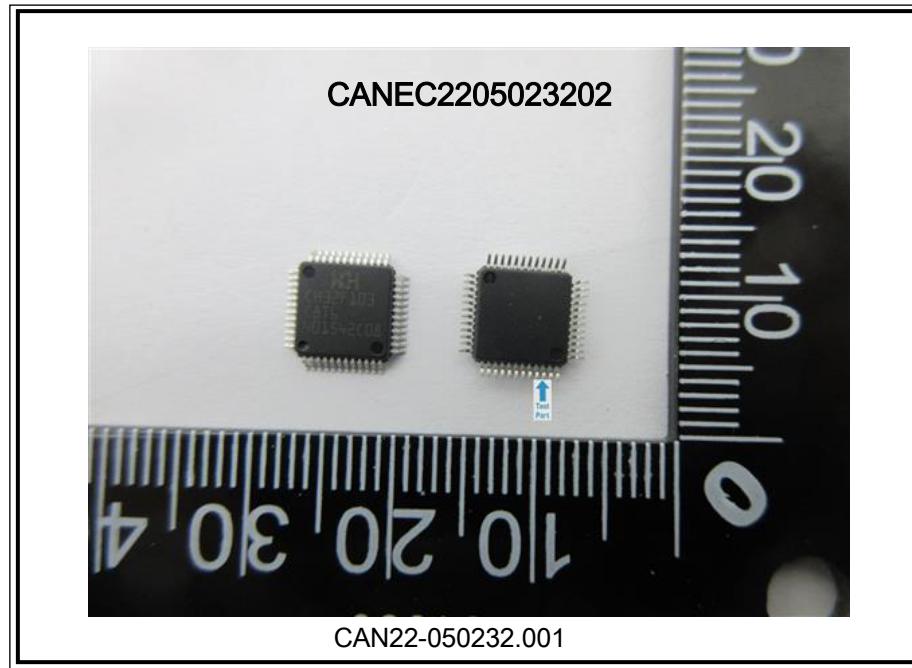
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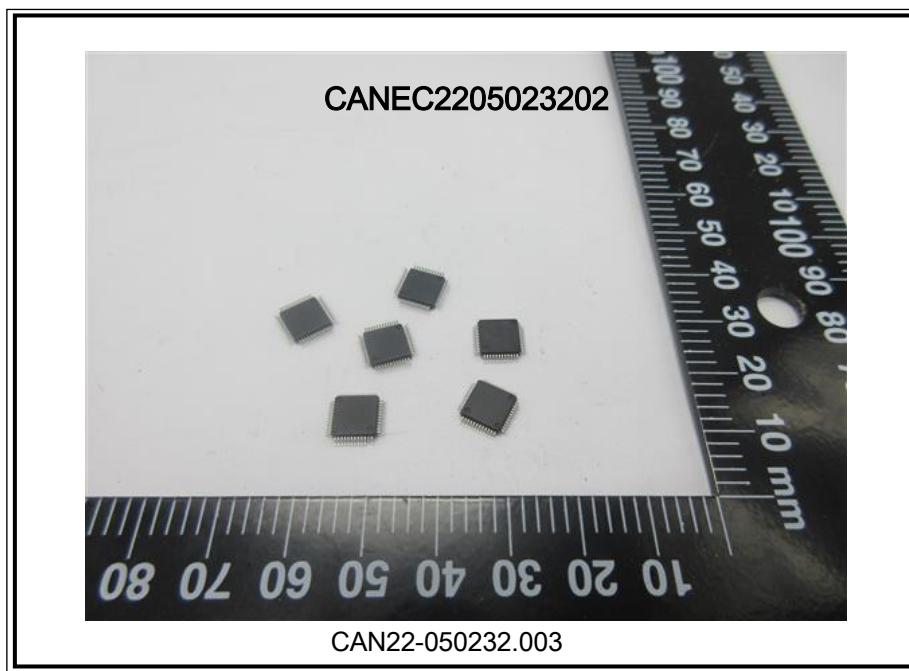
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## 检测报告

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