

## 检测报告

编号: CANEC25012007502\_2

日期: 2025 年 07 月 01 日

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客户名称: 广东砺马半导体有限公司  
客户地址: 深圳市福田区沙头街道天安社区泰然四路 113 号泰然科技园 210 栋七层 7C468

样品名称: 小信号 SMD(无卤)  
客户参考信息: DFN0603、DFN1006-2L、DFN1006-3L、DFN2020、  
DFN2510、DFN2\*2-6L、DFN3\*3-8L、DFN5\*6-8L、  
SOD-123、SOD-323、SOD-523、SOD-723、SOD-923、  
SC70、SC74、SC88、SC88A、SC89、SOT-23、  
SOT-23E、SOT-23LC、SOT-23-3L、SOT-23-6L、  
SOT-323、SOT-523、SOT-723、SOT-363、SOT-89、  
SOT-89-3L、SOT-223、SOP-8、TSSOP-8、TO-220F、  
TO-220AB、TO-247AC-3、TO-251-3L、TO252-2L(E)、  
TO-252-3L、TO-252-4L、TO-263-3L、TO-3P、TO-3PL、  
TOLL-8L、SMA、SMAF、SMB、SMBF、SMC

以上样品及信息由客户提供。

此报告替代原来编号为 CANEC25012007502\_1, 日期为 2025 年 06 月 23 日的报告。

SGS 工作编号: SZP25-025179  
样品接收时间: 2025 年 05 月 23 日  
检测周期: 2025 年 05 月 23 日 ~ 2025 年 05 月 29 日  
检测要求: 根据客户要求检测  
检测方法: 见后续页。  
检测结果: 见后续页。

| 检测要求                                                                                                                                                   | 结论    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP) | 符合    |
| C <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)                                                                                                    | 见检测结果 |

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| 检测要求                             | 结论    |
|----------------------------------|-------|
| AfPS GS 2019:01 PAK-多环芳香烃 (PAHs) | 见检测结果 |
| 苯并三唑类紫外吸收剂                       | 见检测结果 |
| 有机锡化合物                           | 见检测结果 |
| 多氯联苯(PCBs)、多氯三联苯(PCTs)           | 见检测结果 |
| 邻苯二甲酸酯                           | 见检测结果 |
| 卤素                               | 见检测结果 |
| 元素分析                             | 见检测结果 |

## 检测结果:

## 检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID               | 样品描述          |
|------|------|-------------------------|---------------|
| SN1  | A1   | CAN25-0120075-0001.C001 | "小信号 SMD(无卤)" |

## 备注:

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

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)**

**检测方法:** 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目           | 限值   | 单位    | MDL | A1 |
|----------------|------|-------|-----|----|
| 铅 (Pb)         | 1000 | mg/kg | 2   | ND |
| 汞 (Hg)         | 1000 | mg/kg | 2   | ND |
| 镉 (Cd)         | 100  | mg/kg | 2   | ND |
| 六价铬 (Cr(VI))   | 1000 | mg/kg | 8   | ND |
| 多溴联苯之和 (PBB)   | 1000 | mg/kg | -   | ND |
| 一溴联苯 (MonoBB)  | -    | mg/kg | 25  | ND |
| 二溴联苯 (DiBB)    | -    | mg/kg | 25  | ND |
| 三溴联苯 (TriBB)   | -    | mg/kg | 25  | ND |
| 四溴联苯 (TetraBB) | -    | mg/kg | 25  | ND |
| 五溴联苯 (PentaBB) | -    | mg/kg | 25  | ND |
| 六溴联苯 (HexaBB)  | -    | mg/kg | 25  | ND |



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| 检测项目                   | 限值   | 单位    | MDL | A1 |
|------------------------|------|-------|-----|----|
| 七溴联苯 (HeptaBB)         | -    | mg/kg | 25  | ND |
| 八溴联苯 (OctaBB)          | -    | mg/kg | 25  | ND |
| 九溴联苯 (NonaBB)          | -    | mg/kg | 25  | ND |
| 十溴联苯 (DecaBB)          | -    | mg/kg | 25  | ND |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg | -   | ND |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg | 25  | ND |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 25  | ND |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 25  | ND |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 25  | ND |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 25  | ND |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 25  | ND |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 25  | ND |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 25  | ND |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 25  | ND |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 25  | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸二丁酯 (DBP)         | 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。  
 (2) IEC 62321 系列等同于 EN 62321 系列。  
 (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。

**C<sub>10</sub>-C<sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)**

检测方法: 参考 ISO 18219-1:2021, 采用 GC-NCI-MS 进行分析。

| 检测项目                  | CAS No.        | 单位    | MDL | A1 |
|-----------------------|----------------|-------|-----|----|
| 短链氯化石蜡(SCCP)(C10-C13) | 85535-84-8 及其它 | mg/kg | 50  | ND |

**AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)**

检测方法: 参考 AfPS GS 2019:01 PAK, 采用 GC-MS 进行分析。

| 检测项目          | CAS No.  | 单位    | MDL | A1 |
|---------------|----------|-------|-----|----|
| 苯并(a)芘 (BaP)  | 50-32-8  | mg/kg | 0.1 | ND |
| 苯并(e)芘 (BeP)  | 192-97-2 | mg/kg | 0.1 | ND |
| 苯并(a)蒽 (BaA)  | 56-55-3  | mg/kg | 0.1 | ND |
| 苯并(b)荧蒽 (BbF) | 205-99-2 | mg/kg | 0.1 | ND |
| 苯并(j)荧蒽 (BjF) | 205-82-3 | mg/kg | 0.1 | ND |



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| 检测项目                                            | CAS No.  | 单位    | MDL | A1 |
|-------------------------------------------------|----------|-------|-----|----|
| 苯并(k)荧蒹 (BkF)                                   | 207-08-9 | mg/kg | 0.1 | ND |
| 蒽 (CHR)                                         | 218-01-9 | mg/kg | 0.1 | ND |
| 二苯并(a,h)蒽 (DBA)                                 | 53-70-3  | mg/kg | 0.1 | ND |
| 苯并(g,h,i)苉(二苯并(a,h)苉) (BPE)                     | 191-24-2 | mg/kg | 0.1 | ND |
| 苉苯(1,2,3-c,d)苉 (IPY)                            | 193-39-5 | mg/kg | 0.1 | ND |
| 菲 (PHE)                                         | 85-01-8  | mg/kg | 0.1 | ND |
| 苉 (PYR)                                         | 129-00-0 | mg/kg | 0.1 | ND |
| 蒽 (ANT)                                         | 120-12-7 | mg/kg | 0.1 | ND |
| 荧蒹 (FLT)                                        | 206-44-0 | mg/kg | 0.1 | ND |
| 4 项多环芳香烃总和[菲 (PHE), 苉 (PYR), 蒽 (ANT), 荧蒹 (FLT)] | -        | mg/kg | -   | ND |
| 萘 (NAP)                                         | 91-20-3  | mg/kg | 0.1 | ND |
| 15 项多环芳香烃总和                                     | -        | mg/kg | -   | ND |
| 材料分类                                            | -        | -     | -   | -  |

## 备注:

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求

| 参数<br>单位: mg/kg                     | 1 类                                                                            | 2 类                                                  |              | 3 类                                         |              |
|-------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------|--------------|---------------------------------------------|--------------|
|                                     | 设计意图为放入口中的材料, 或与皮肤长期接触 (超过 30 秒) 的材料用于 -2009/48/EC 定义的玩具, 或 -供 3 岁以下儿童 a,b 使用。 | 不属于第 1 类, 设计意图或可预见 d 与皮肤长期接触 (超过 30 秒) 或短期重复接触 e 的材料 |              | 不属于第 1 和 2 类, 设计意图或可预见与皮肤短期接触 (不超过 30 秒) 材料 |              |
|                                     |                                                                                | a. 供儿童使用的产品                                          | b. 其他产品      | a. 供儿童使用的产品                                 | b. 其他产品      |
| 苯并(a)苉 (BaP)                        | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(e)苉 (BeP)                        | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(a)蒽 (BaA)                        | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(b)荧蒹 (BbF)                       | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(j)荧蒹 (BjF)                       | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(k)荧蒹 (BkF)                       | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 蒽 (CHR), mg/kg                      | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 二苯并(a,h)蒽 (DBA)                     | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苯并(g,h,i)苉(二苯并(a,h)苉) (BPE)         | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 苉苯(1,2,3-c,d)苉 (IPY)                | < 0.2                                                                          | < 0.2                                                | < 0.5        | < 0.5                                       | < 1          |
| 菲 (PHE), 苉 (PYR), 蒽 (ANT), 荧蒹 (FLT) | < 1<br>(总和)                                                                    | < 5<br>(总和)                                          | < 10<br>(总和) | < 20<br>(总和)                                | < 50<br>(总和) |
| 萘 (NAP)                             | < 1                                                                            | < 2                                                  |              | < 10                                        |              |
| 15 PAH 之和                           | < 1                                                                            | < 5                                                  | < 10         | < 20                                        | < 50         |



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## 注释:

- a 儿童是指法定年龄未满 14 周岁的人。  
 b 供儿童使用包括儿童的主动接触或被动接触。  
 c “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 (EC) No. 1272/2013)。  
 d 根据德国产品安全法 (ProdSG) (第一章第 2 条第 28 款) 的定义, “可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

## 备注:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

## 苯并三唑类紫外吸收剂

检测方法: 参考 SGS 内部方法, 采用 GC-MS 进行分析。

| 检测项目                                      | CAS No.    | 单位    | MDL | A1 |
|-------------------------------------------|------------|-------|-----|----|
| 2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV 320)             | 3846-71-7  | mg/kg | 5   | ND |
| 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚(UV 350) | 36437-37-3 | mg/kg | 5   | ND |
| 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV 328)        | 25973-55-1 | mg/kg | 5   | ND |
| 2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV 327)        | 3864-99-1  | mg/kg | 5   | ND |
| 地莫米唑                                      | 2440-22-4  | mg/kg | 100 | ND |

## 有机锡化合物

检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

| 检测项目      | 单位    | MDL  | A1 |
|-----------|-------|------|----|
| 二丁基锡(DBT) | mg/kg | 0.02 | ND |
| 三丁基锡(TBT) | mg/kg | 0.02 | ND |
| 二辛基锡(DOT) | mg/kg | 0.02 | ND |
| 三丙基锡(TPT) | mg/kg | 0.02 | ND |

## 多氯联苯(PCBs)、多氯三联苯(PCTs)

检测方法: SGS 内部方法 (GZTC CHEM-TOP-032-01, 参考 EPA 8082A:2007), 采用 GC-ECD/GC-MS 进行分析。

| 检测项目               | CAS No.    | 单位    | MDL | A1 |
|--------------------|------------|-------|-----|----|
| 多氯联苯总量             | -          | mg/kg | -   | ND |
| 2,2',5-三氯联苯(PCB18) | 37680-65-2 | mg/kg | 0.5 | ND |
| 2,4,4'-三氯联苯(PCB28) | 7012-37-5  | mg/kg | 0.5 | ND |



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## 检测报告

编号: CANEC25012007502\_2

日期: 2025 年 07 月 01 日

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| 检测项目                          | CAS No.    | 单位    | MDL | A1 |
|-------------------------------|------------|-------|-----|----|
| 2,2',5,5'-四氯联苯(PCB52)         | 35693-99-3 | mg/kg | 0.5 | ND |
| 2,2',4,5,5'-五氯联苯(PCB101)      | 37680-73-2 | mg/kg | 0.5 | ND |
| 2,3',4,4',5-五氯联苯(PCB118)      | 31508-00-6 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5'-六氯联苯(PCB138)   | 35065-28-2 | mg/kg | 0.5 | ND |
| 2,2',4,4',5,5'-六氯联苯(PCB153)   | 35065-27-1 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5,5'-七氯联苯(PCB180) | 35065-29-3 | mg/kg | 0.5 | ND |
| 多氯三联苯 5432                    | 63496-31-1 | mg/kg | 5   | ND |
| 多氯三联苯 5442                    | 12642-23-8 | mg/kg | 5   | ND |
| 多氯三联苯 5460                    | 11126-42-4 | mg/kg | 5   | ND |

## 邻苯二甲酸酯

检测方法: 参考 EN 14372:2004, 采用 GC-MS 进行分析。

| 检测项目                    | CAS No.                   | 单位 | MDL   | A1 |
|-------------------------|---------------------------|----|-------|----|
| 邻苯二甲酸二异壬酯 (DINP)        | 28553-12-0<br>/68515-48-0 | %  | 0.010 | ND |
| 邻苯二甲酸二正辛酯 (DNOP)        | 117-84-0                  | %  | 0.003 | ND |
| 邻苯二甲酸二异癸酯 (DIDP)        | 26761-40-0<br>/68515-49-1 | %  | 0.010 | ND |
| 邻苯二甲酸二正戊酯 (DnPP)        | 131-18-0                  | %  | 0.003 | ND |
| 邻苯二甲酸二正己酯 (DnHP)        | 84-75-3                   | %  | 0.003 | ND |
| 邻苯二甲酸二环己酯 (DCHP)        | 84-61-7                   | %  | 0.003 | ND |
| 邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP) | 117-82-8                  | %  | 0.003 | ND |

## 卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

| 检测项目   | 单位    | MDL | A1 |
|--------|-------|-----|----|
| 氟 (F)  | mg/kg | 20  | ND |
| 氯 (Cl) | mg/kg | 50  | 81 |
| 溴 (Br) | mg/kg | 50  | ND |
| 碘 (I)  | mg/kg | 50  | ND |

## 元素分析

检测方法: 参考 US EPA 3052:1996, 采用 ICP-OES/AAS 进行分析。

| 检测项目  | 单位    | MDL | A1 |
|-------|-------|-----|----|
| 铍(Be) | mg/kg | 5   | ND |
| 锑(Sb) | mg/kg | 10  | ND |

本报告更新了客户地址。



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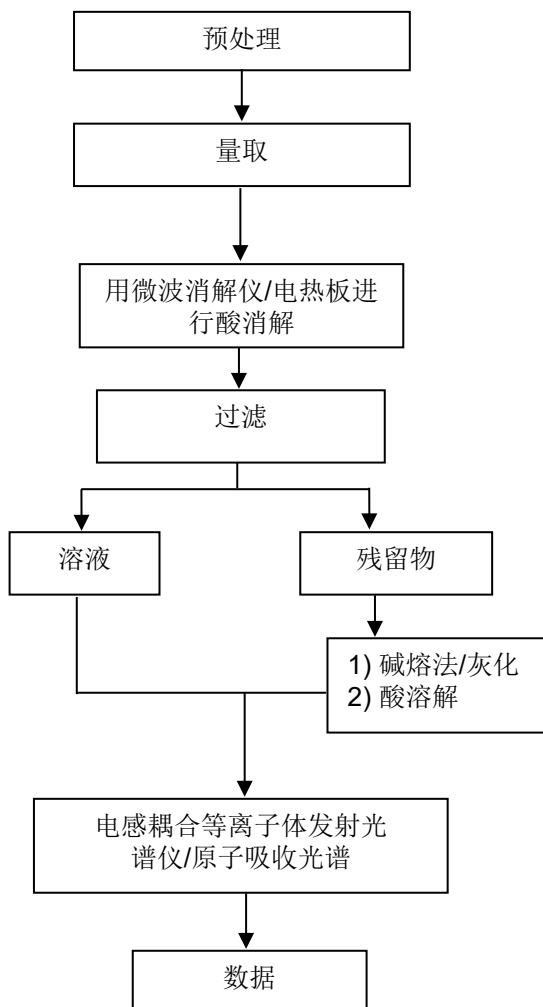
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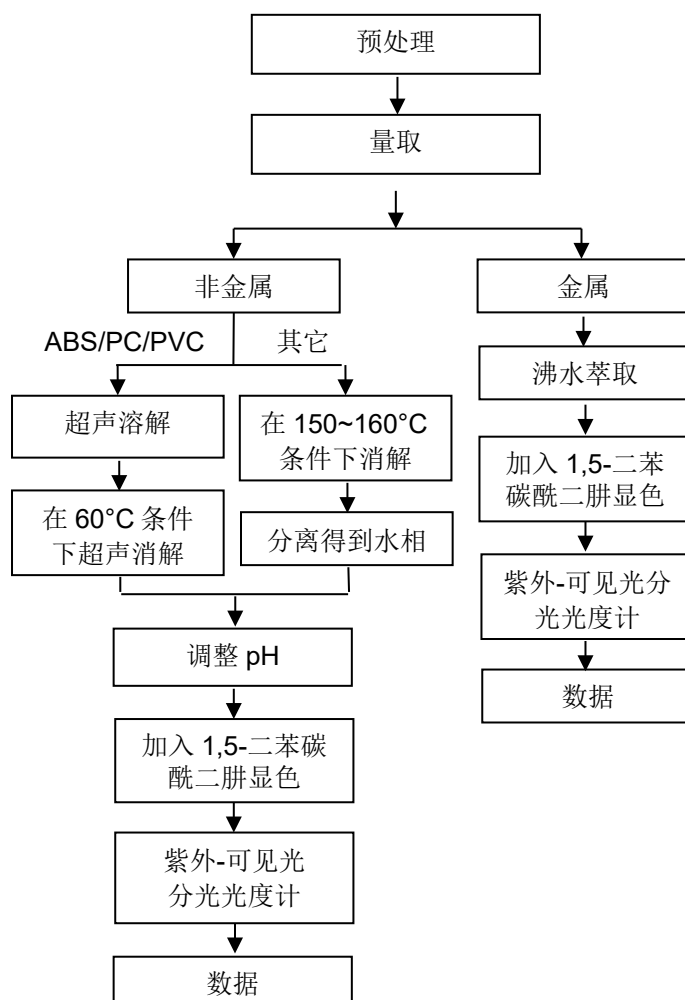
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## 元素检测流程图

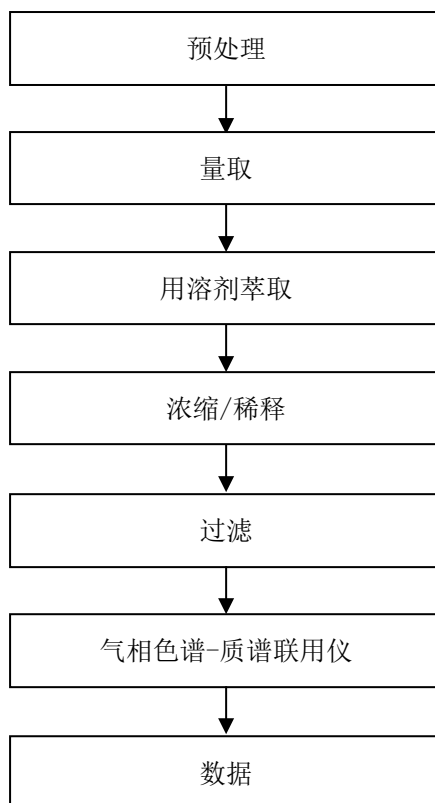
样品按照下述流程被完全消解



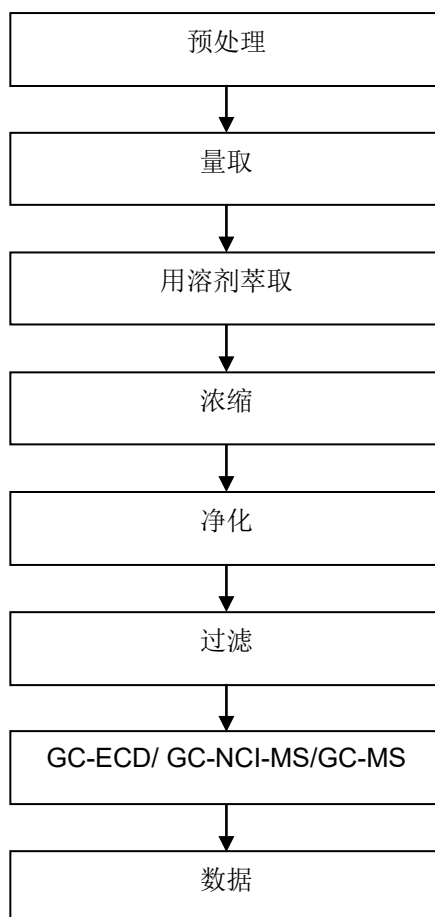
## 六价铬检测流程图



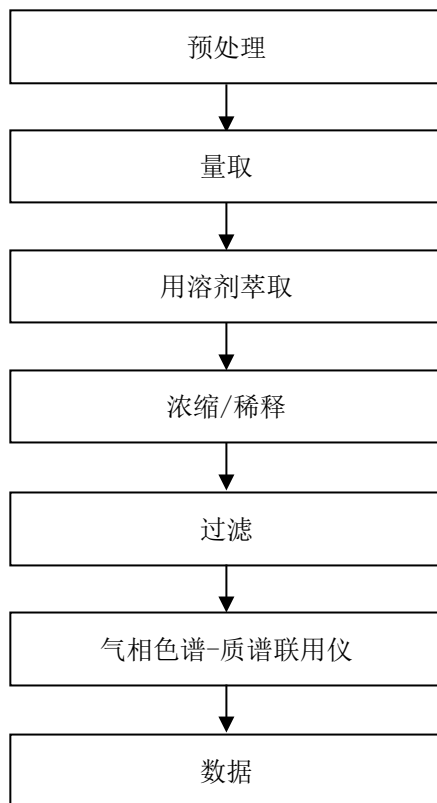
## PBB/PBDE/Phthalates 检测流程图



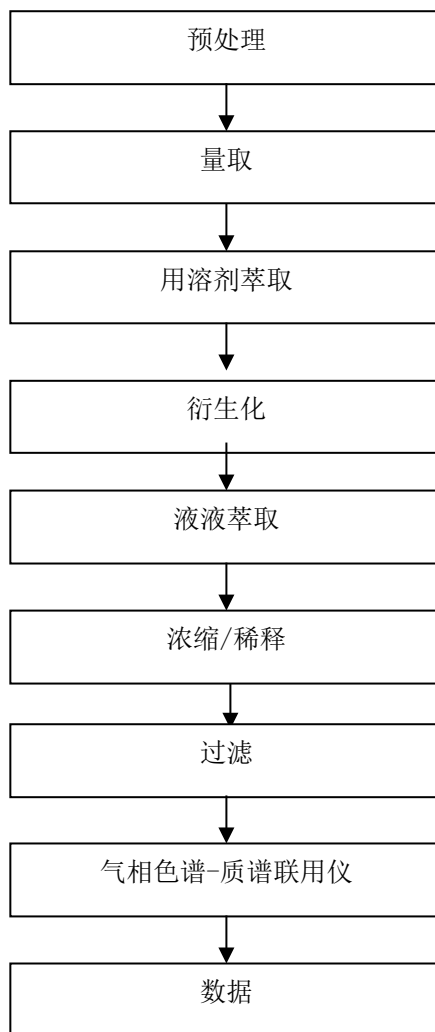
## 氯化石蜡检测流程图



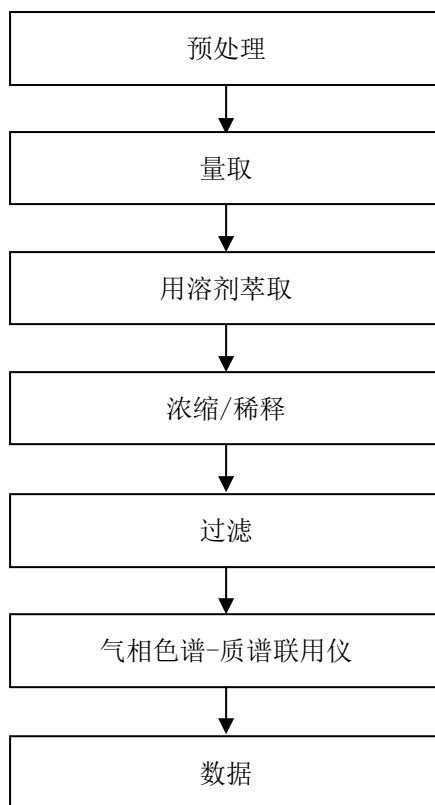
## PAHs 检测流程图



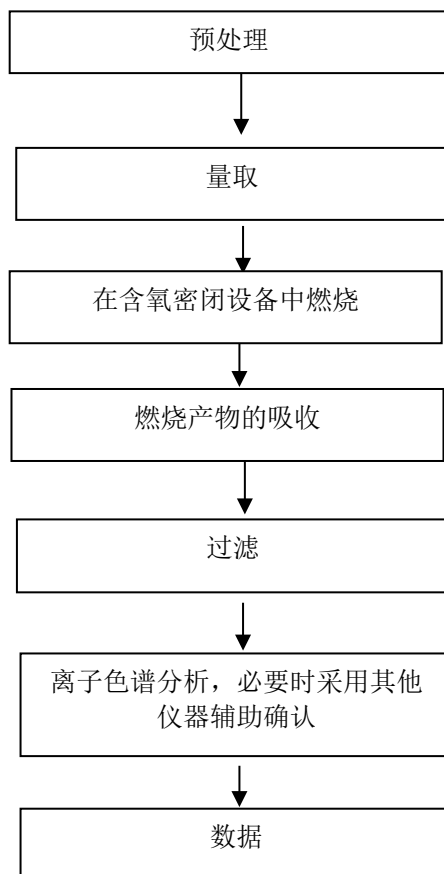
## 有机锡检测流程图



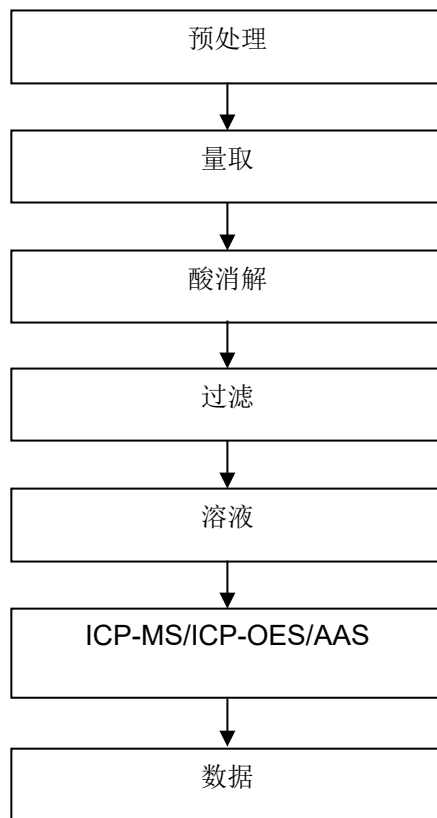
## Phthalates 检测流程图



### 卤素检测流程图



## 元素检测流程图



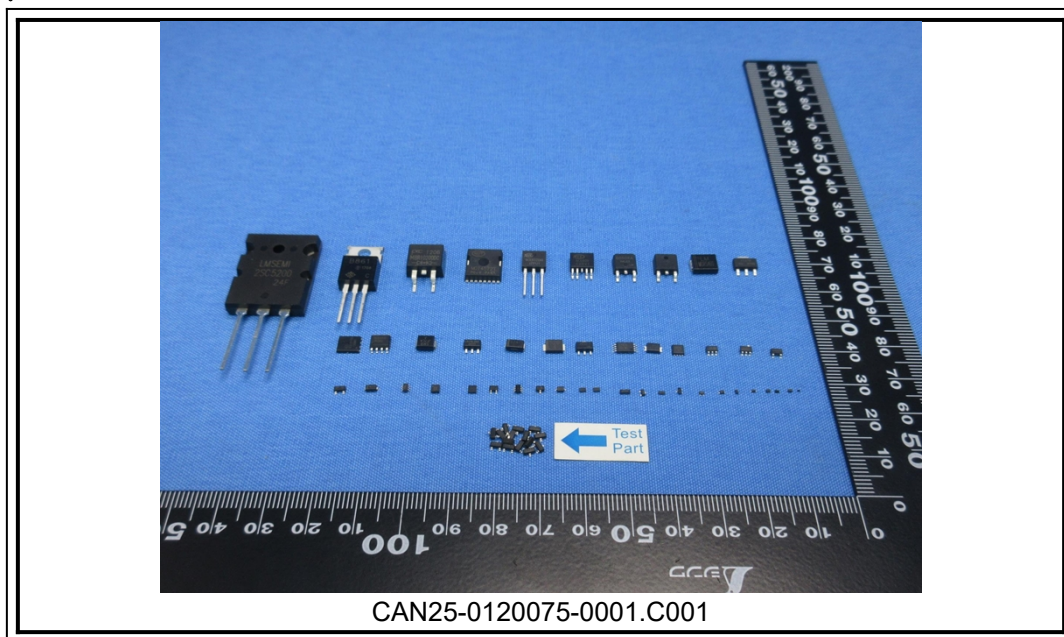
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