

## 检测报告

编号: CANEC2207314302

日期: 2022年05月06日 第1页,共16页

客户名称: 苏州兴胜科半导体材料有限公司  
客户地址: 中国江苏省苏州市工业园区三区龙潭路123号

样品名称: 引线框架电镀银  
型号: 引线框架电镀银  
以上样品及信息由客户提供。

SGS工作编号: CP22-020584 - GZ  
内部编号: 22561959  
样品接收日期: 2022年04月20日  
检测周期: 2022年04月20日 - 2022年04月28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

## 检测结果概要:

检测要求	结论
RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863	符合
卤素	见检测结果
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欧盟POPs法规(EU) 2019/1021 及其修正法规(EU) 2020/784-全氟辛酸(PFOA)及其盐, 全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)相关物质	符合



## 检测报告

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通标标准技术服务有限公司广州分公司  
授权签名

Coral Qiu 邱蔚珊  
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	CAN22-073143.001	银色金属

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

- 检测方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
  - (2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
  - (3) 参考IEC 62321-4:2013+A1:2017, 用ICP-OES测定汞的含量
  - (4) 参考IEC 62321-7-1:2015, 用紫外-可见分光光度计比色法测定六价格的含量
  - (5) 参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量
  - (6) 参考IEC 62321-8:2017, 用GC-MS测定邻苯二甲酸酯 的含量

检测项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价格(Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	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



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检测项目	限值	单位	MDL	001
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)	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) ▼=a. 当六价格的浓度高于0.13 µg/cm<sup>2</sup>时, 样品为阳性, 即含有六价格;

b. 当六价格的浓度为ND(低于0.10 µg/cm<sup>2</sup>)时, 样品为阴性, 即未检测到六价格;

c. 当六价格的浓度介于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格, 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, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

## 卤素

检测方法: 参考EN 14582:2016, 用 IC分析。

检测项目	单位	MDL	001
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

## 元素分析

检测方法: SGS内部方法 (GZTC CHEM-TOP-009-01, 参考EPA 3050B:1996), 采用ICP-OES进行分析。



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检测项目	单位	MDL	001
砷 (As)	mg/kg	10	ND
锑 (Sb)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND
三氧化二砷 (As <sub>2</sub> O <sub>3</sub> )	mg/kg	13	ND
五氧化二砷 (As <sub>2</sub> O <sub>5</sub> ) ◆	mg/kg	15	ND
氧化铍 ◆	mg/kg	15	ND
三氧化二锑 (Sb <sub>2</sub> O <sub>3</sub> )	mg/kg	12	ND

备注:

- (1) ◆氧化铍: 由铍含量换算得之。  
 三氧化二锑(Sb<sub>2</sub>O<sub>3</sub>): 由锑含量换算得之。  
 三氧化二砷(As<sub>2</sub>O<sub>3</sub>): 由砷含量换算得之。  
 五氧化二砷(As<sub>2</sub>O<sub>5</sub>): 由砷含量换算得之。

### 聚氯乙烯(PVC)成分

检测方法: SGS内部方法(GZTC CHEM-TOP-194-01), 采用Pyrolysis-GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	001
聚氯乙烯成分	9002-86-2	%(w/w)	0.05	ND

备注:

- (1) 聚氯乙烯成分包括共聚物中的聚氯乙烯

### 邻苯二甲酸酯

检测方法: 参考 IEC 62321-8:2017, 采用 GC-MS 进行分析。

检测项目	CAS NO.	单位	MDL	001
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.005	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	%(w/w)	0.005	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	%(w/w)	0.005	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	%(w/w)	0.005	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.005	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.005	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.005	ND



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检测项目	CAS NO.	单位	MDL	001
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.005	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
邻苯二甲酸二庚酯 (DnHpP)	3648-21-3	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%(w/w)	0.005	ND

### 多氯联苯(PCBs)

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	001
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-五氯联苯(PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯(PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯 (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯 (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-七氯联苯 (PCB 180)	35065-29-3	mg/kg	0.5	ND

### 多氯萘(PCNs)

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	001
1-氯萘	90-13-1	mg/kg	5	ND
2-氯萘	91-58-7	mg/kg	5	ND
1,4-二氯萘	1825-31-6	mg/kg	5	ND
1,5-二氯萘	1825-30-5	mg/kg	5	ND
1,2-二氯萘	2050-69-3	mg/kg	5	ND
1,8-二氯萘	2050-74-0	mg/kg	5	ND
1,2,3-三氯萘	50402-52-3	mg/kg	5	ND
1,2,3,4-四氯萘	20020-02-4	mg/kg	5	ND
1,2,3,4,6-五氯萘	67922-26-3	mg/kg	5	ND
八氯萘	2234-13-1	mg/kg	5	ND

### 多氯三联苯(PCTs)



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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	001
Aroclor 5432	63496-31-1	mg/kg	5	ND
Aroclor 5442	12642-23-8	mg/kg	5	ND
Aroclor 5460	11126-42-4	mg/kg	5	ND

## 氯化石蜡

检测方法: SGS内部方法 (GZTC CHEM-TOP-096-02, 参考EPA 3550C:2007), 采用GC-NCI-MS / GC-ECD进行分析。

检测项目	单位	MDL	001
短链氯化石蜡(C10-C13) (SCCPs)	mg/kg	50	ND

## 有机锡

检测方法: SGS内部方法 (GZTC CHEM-TOP-031, 参考ISO 17353:2004), 采用GC-MS进行分析。

检测项目	单位	MDL	001
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
氧化双三丁基锡(TBTO)♦	mg/kg	0.02	ND
三丙基锡(TPT)	mg/kg	0.02	ND

备注:

(1) ♦氧化双三丁基锡(TBTO)的浓度是基于三丁基锡(TBT)的检测结果计算所得。

## 六溴环十二烷 (HBCDD)

检测方法: SGS 内部方法(GZTC CHEM-TOP-073, 参考EPA 3540C:1996), 采用GC-MS进行分析。

检测项目	单位	MDL	001
六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	mg/kg	10	ND

## 欧盟POPs法规 (EU) 2019/1021 及其修正法规 (EU) 2020/784-全氟辛酸(PFOA)及其盐, 全氟辛烷磺酸 (PFOS)及其衍生物和全氟辛酸(PFOA)相关物质



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory.

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## 检测报告

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检测方法: 参考CEN/TS15968:2010, 采用LC-MS或LC-MS/MS和GC-MS进行分析。

检测项目	CAS NO.	限值	单位	MDL	001
全氟辛酸 (PFOA)及其盐+	335-67-1	0.025	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) <sup>^</sup>	1763-23-1	-	mg/kg	0.010	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	-	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	-	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	1000	mg/kg	-	ND

### 评论

全氟辛酸(PFOA)相关物质	-	1.0	mg/kg	-	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4	-	mg/kg	0.2	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	-	mg/kg	0.2	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA)	1996-88-9	-	mg/kg	0.2	ND
全氟辛基碘烷 (PFOI)	507-63-1	-	mg/kg	0.2	ND

### 评论

备注:

(1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);  
 (2) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)  
 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。

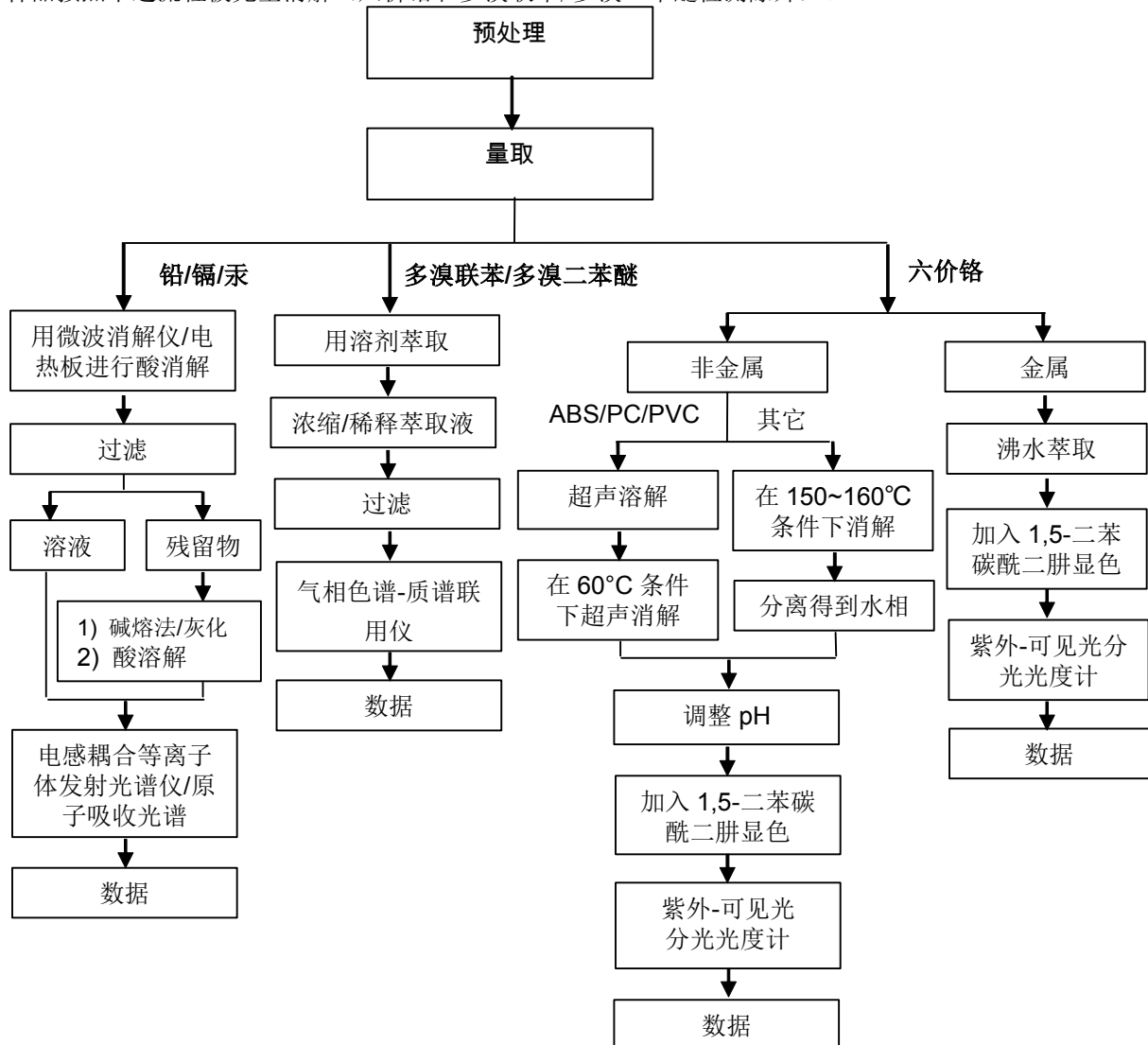




附件

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

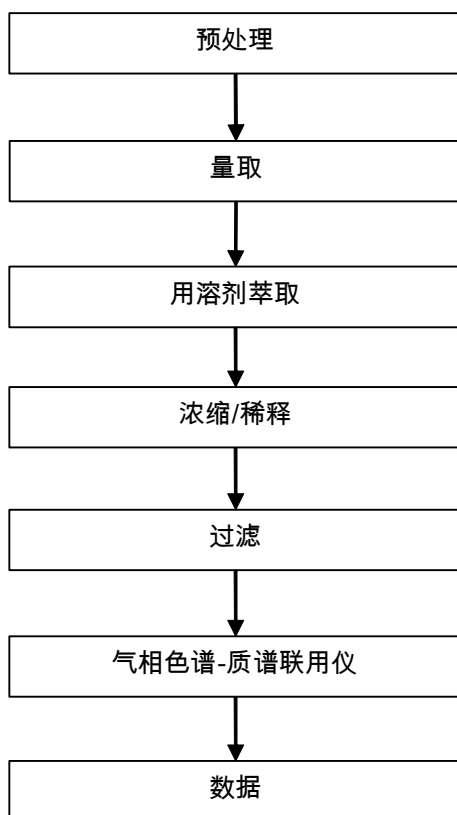
- 1) 分析人员: 张梓路/蓝智敏/陈如珠
- 2) 项目负责人: 汪丹/刘琼
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚检测除外)。



## 附件

- 1) 分析人员: 陈如珠
- 2) 项目负责人: 刘琼

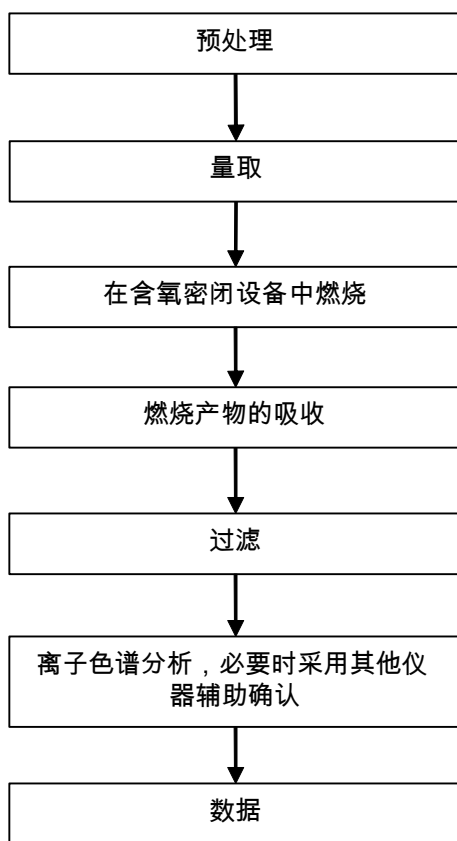
### Phthalates 检测流程图



附件

- 1) 分析人员: 施奕侠
- 2) 项目负责人: 汪丹

### Halogen 检测流程图



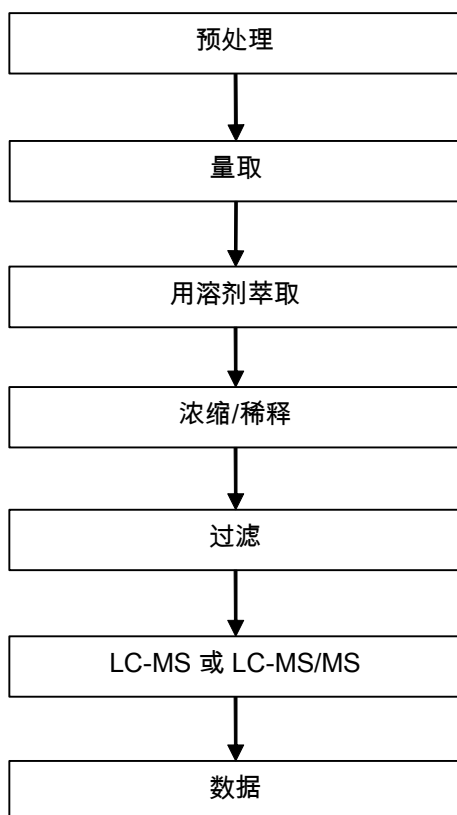
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- 1) 分析人员: 李玉金
- 2) 项目负责人: 刘琼

PFOA / PFOS 检测流程图



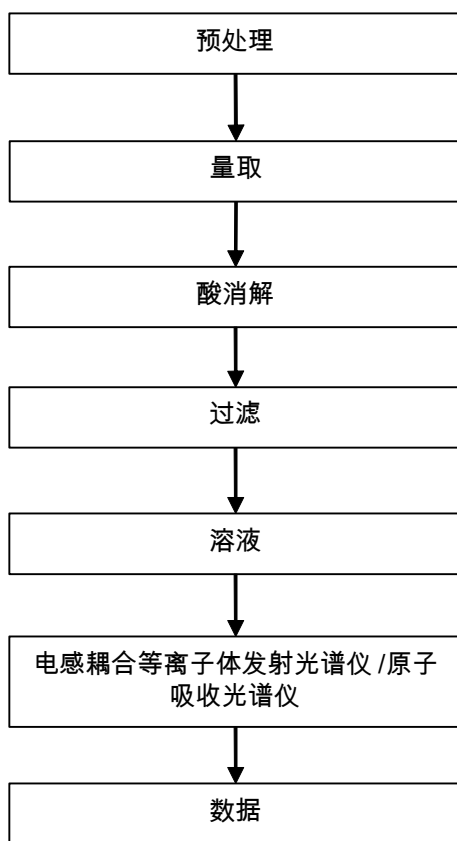
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- 1) 分析人员: 张梓路
- 2) 项目负责人: 汪丹

元素检测流程图



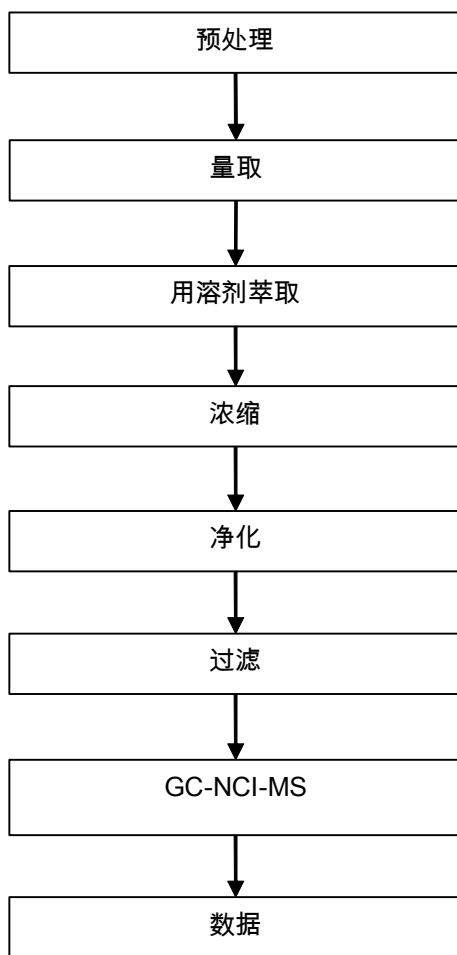
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附件

### SCCP/MCCP/LCCP 检测流程图

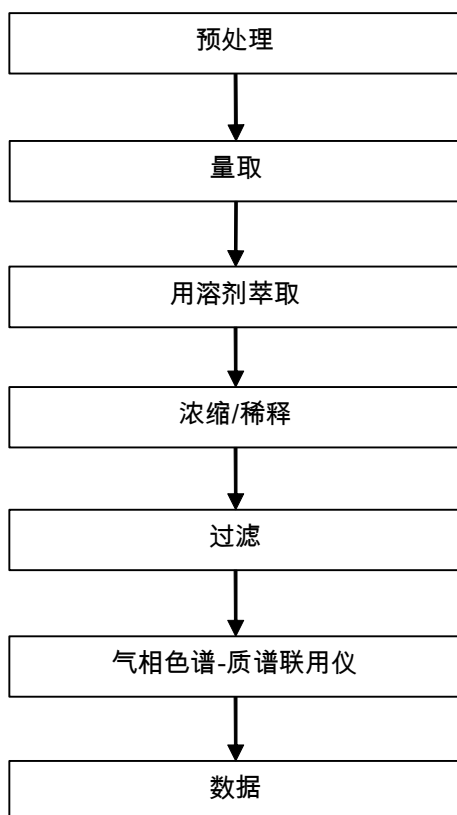
- 1) 分析人员: 陈美娜
- 2) 项目负责人: 刘琼



附件

- 1) 分析人员: 陈如珠
- 2) 项目负责人: 刘琼

HBCDD 检测流程图



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