

检测报告

编号: CANEC2301827502

日期: 2023年02月27日 第1页,共21页

客户名称: 万裕三信电子(东莞)有限公司
客户地址: 中国广东省东莞市长安镇乌沙兴发南路新星工业园

样品名称: 铝电解电容
型号: 导针型
以上样品及信息由客户提供。

SGS工作编号: CP23-005003 - SZ
样品接收日期: 2023年02月15日
检测周期: 2023年02月15日 - 2023年02月23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
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(PBBs), 多溴二苯醚(PBDEs), 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)	符合
欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863- 铅, 汞, 镉和六价铬	符合
卤素	见检测结果
元素分析	见检测结果
元素分析	见检测结果
四溴双酚-A	见检测结果
欧盟POPs法规(EU) 2019/1021-C ₁₀ -C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	符合
欧盟POPs法规(EU) 2019/1021-六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	符合
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, 全氟辛酸磺酸 (PFOS)及其衍生物和全氟辛酸(PFOA)相关物质	符合



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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

任婷

Annie Ren 任婷
批准签署人

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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	CAN23-018275.001	带液体的棕色纸
SN2	CAN23-018275.002	黑色物料
SN3	CAN23-018275.003	带白色印字的黑色塑胶
SN4	CAN23-018275.004	银灰色箔
SN5	CAN23-018275.005	灰色箔
SN6	CAN23-018275.006	银色金属脚
SN7	CAN23-018275.007	银色金属壳

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

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(PBBs), 多溴二苯醚(PBDEs), 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)

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	001	002	003
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	33	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND		ND
六价铬(Cr(VI))	1000	mg/kg	8		ND	
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND



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检测项目	限值	单位	MDL	001	002	003
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	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
- (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。

欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863-铅, 汞, 镉和六价铬

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	004	005	006
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	10	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND	ND	ND

检测项目	限值	单位	MDL	007
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	5
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND



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日期: 2023年02月27日 第5页,共21页

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) ▼=a. 当六价铬的浓度高于0.13 $\mu\text{g}/\text{cm}^2$ 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 $\mu\text{g}/\text{cm}^2$)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 $\mu\text{g}/\text{cm}^2$ 与0.13 $\mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 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。

卤素

检测方法: 参考EN 14582:2016, 用 IC分析。

检测项目	单位	MDL	001	002	003
氟 (F)	mg/kg	50	ND	212	ND
氯 (Cl)	mg/kg	50	ND	ND	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

元素分析

检测方法: SGS内部方法 (GZTC CHEM-TOP-004-01, 参考EPA 3052: 1996), 采用ICP-OES进行分析。

检测项目	单位	MDL	001	002	003
锑 (Sb)	mg/kg	10	ND	ND	117

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。

检测项目	单位	MDL	004	005	006
砷 (As)	mg/kg	10	ND	ND	42
铍 (Be)	mg/kg	5	ND	ND	ND



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检测报告

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日期: 2023年02月27日 第6页,共21页

检测项目	单位	MDL	007
砷 (As)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND

四溴双酚-A

检测方法: SGS内部方法(GZTC CHEM-TOP-065, 参考EPA 3540C:1996 & EPA 8270E:2017), 采用LC-MS/MS进行分析。

检测项目	CAS NO.	单位	MDL	001	002	003
四溴双酚-A	79-94-7	mg/kg	10	ND	ND	ND

欧盟POPs法规(EU) 2019/1021-C₁₀~C₁₃ 氯代烃(短链氯化石蜡)(SCCPs)

检测方法: 参考ISO 22818:2021, 采用GC-NCI-MS进行分析。

检测项目	CAS NO.	限值	单位	MDL	001
C ₁₀ ~C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8和其它	1500	mg/kg	50	ND

评论	C ₁₄ ~C ₁₇ 氯代烃(中链氯化石蜡)(MCCPs)	限值	单位	MDL	符合
	85535-85-9和其它	-	mg/kg	50	ND

检测项目	CAS NO.	限值	单位	MDL	002
C ₁₀ ~C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8和其它	1500	mg/kg	50	ND

评论	C ₁₄ ~C ₁₇ 氯代烃(中链氯化石蜡)(MCCPs)	限值	单位	MDL	符合
	85535-85-9和其它	-	mg/kg	50	ND

检测项目	CAS NO.	限值	单位	MDL	003
C ₁₀ ~C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8和其它	1500	mg/kg	50	ND

评论	C ₁₄ ~C ₁₇ 氯代烃(中链氯化石蜡)(MCCPs)	限值	单位	MDL	符合
	85535-85-9和其它	-	mg/kg	50	ND



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欧盟POPs法规(EU) 2019/1021-六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)

检测方法: 参考IEC 62321-9:2021, 采用GC-MS进行分析。

检测项目	CAS NO.	限值	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)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	100	mg/kg	20	ND
评论					符合

检测项目	CAS NO.	限值	单位	MDL	002
六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	100	mg/kg	20	ND
评论					符合

检测项目	CAS NO.	限值	单位	MDL	003
六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	100	mg/kg	20	ND
评论					符合

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

检测方法: 参考CEN/TS 15968:2010, 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*	-	0.025	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) 及其盐*	-	-	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(N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND



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检测项目	CAS NO.	限值	单位	MDL	001
全氟辛烷磺酸 (PFOS) 及其衍生物	-	1000	mg/kg	-	ND
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	0.1	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	-	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)	678-39-7	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)	27905-45-9	-	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA)	1996-88-9	-	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	-	mg/kg	0.1	ND

评论

符合

检测项目	CAS NO.	限值	单位	MDL	002
全氟辛酸 (PFOA) 及其盐*	-	0.025	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) 及其盐*	-	-	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(N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(N-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
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	0.1	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	-	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)	678-39-7	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)	27905-45-9	-	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA)	1996-88-9	-	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	-	mg/kg	0.1	ND

评论

符合

检测项目	CAS NO.	限值	单位	MDL	003
全氟辛酸 (PFOA) 及其盐*	-	0.025	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) 及其盐*	-	-	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(N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND



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检测报告

编号: CANEC2301827502

日期: 2023年02月27日 第9页,共21页

检测项目	CAS NO.	限值	单位	MDL	003
2-(N-乙基全氟辛基磺酰胺)乙醇(N-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
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	0.1	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	-	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)	678-39-7	-	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)	27905-45-9	-	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA)	1996-88-9	-	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	-	mg/kg	0.1	ND
评论					符合
备注:					

(1) 全氟辛酸 (PFOA) 及其盐*包括PFOA (CAS No. 335-67-1)、APFO (CAS No. 3825-26-1)、PFOA-Na (CAS No. 335-95-5)、PFOA-K (CAS No. 2395-00-8)、PFOA-Ag (CAS No. 335-93-3) 和PFOA-F (CAS No. 335-66-0)。全氟辛酸 (PFOA) 的结果用于表示全氟辛酸 (PFOA) 及其盐。

(2) 全氟辛烷磺酸 (PFOS) 及其盐*包括全氟辛烷磺酸 (CAS No.1763-23-1)、POSF (CAS No. 307-35-7)、PFOS-K (CAS No. 2795-39-3)、PFOS-NH₄ (CAS No. 29081-56-9)、PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8)、PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8)、PFOS-Li (CAS No. 29457-72-5)、PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) 和PFOS-Na (CAS No. 4021-47-0)。全氟辛烷磺酸(PFOS)的结果用于表示全氟辛烷磺酸及其盐。

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。

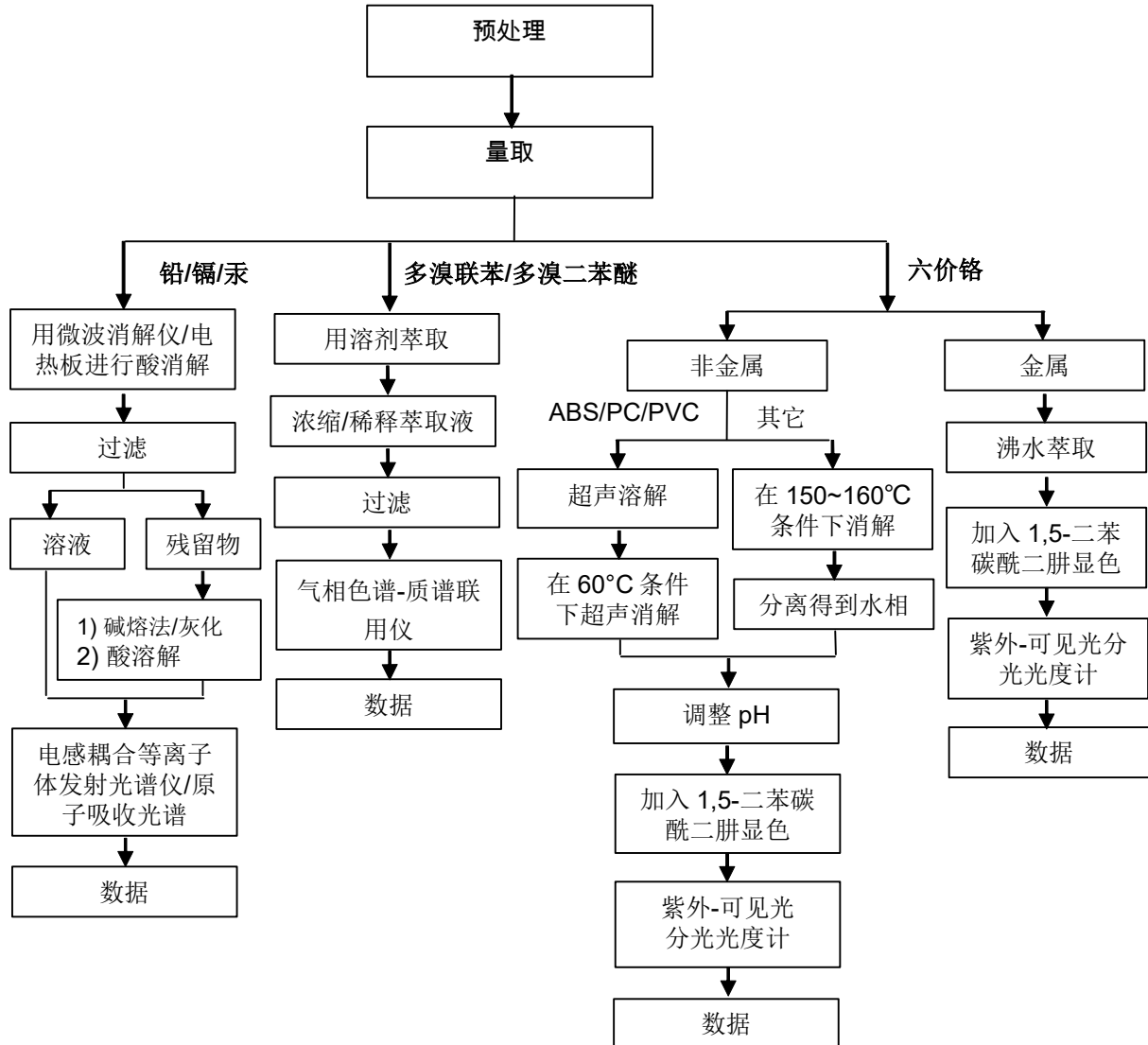


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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 检测流程图

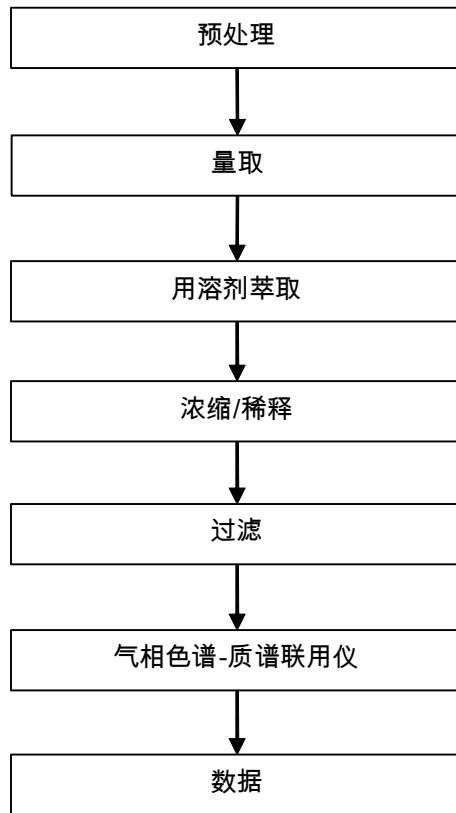
1) 样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚检测除外）。



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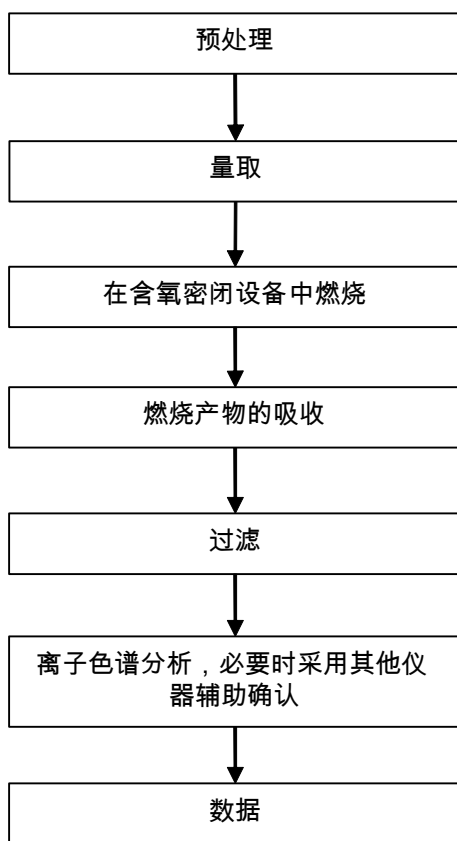
Phthalates 检测流程图



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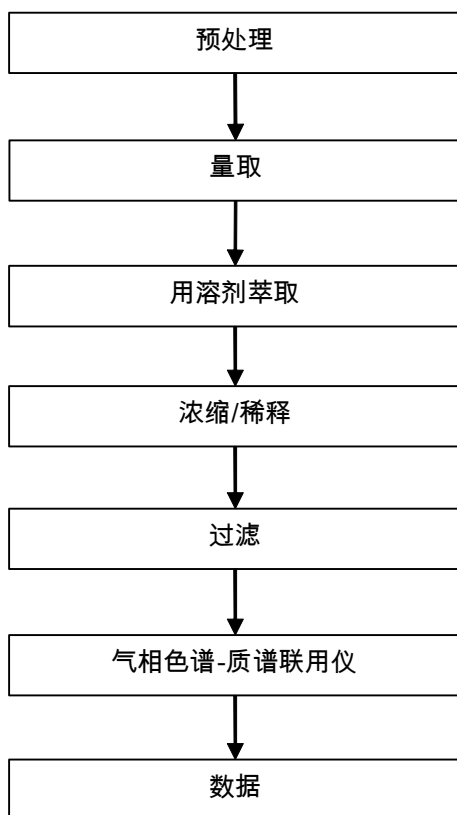
附件

卤素检测流程图



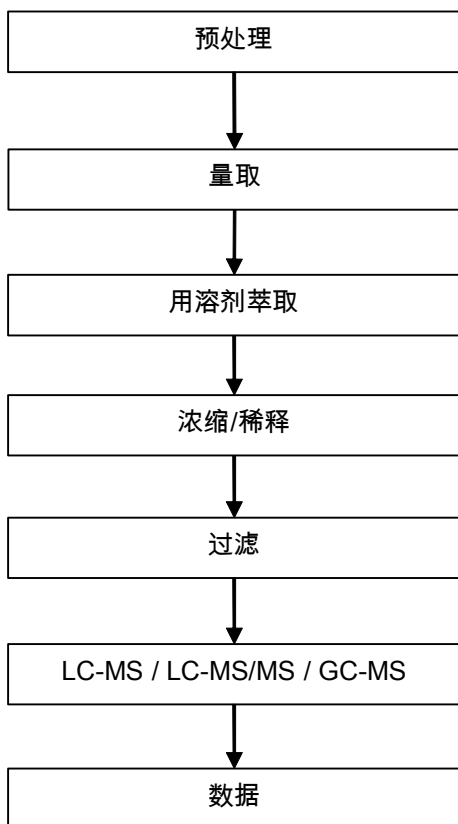
附件

HBCDD 检测流程图



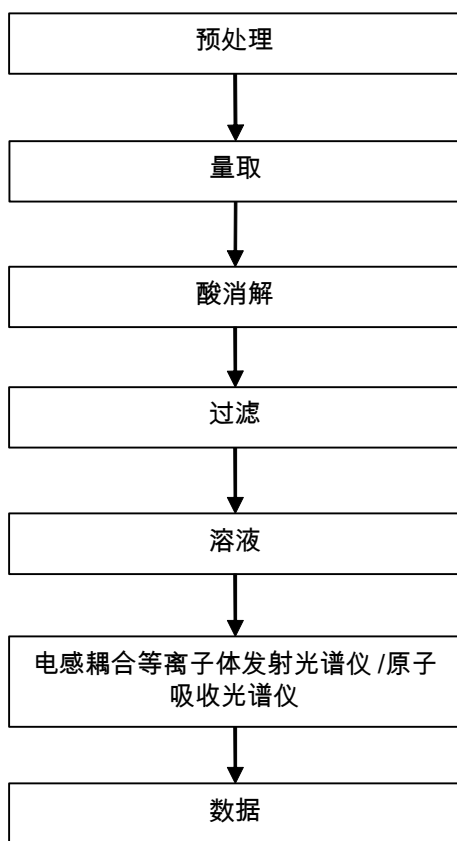
附件

PFAS 检测流程图



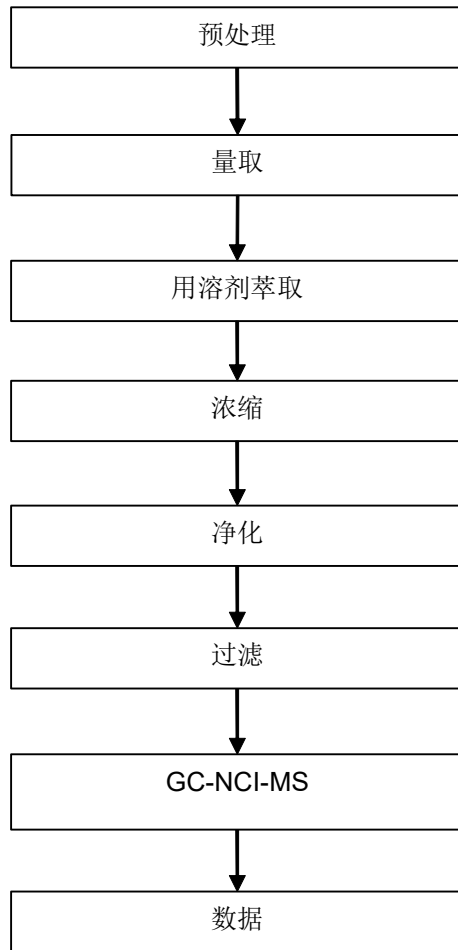
附件

元素检测流程图



附件

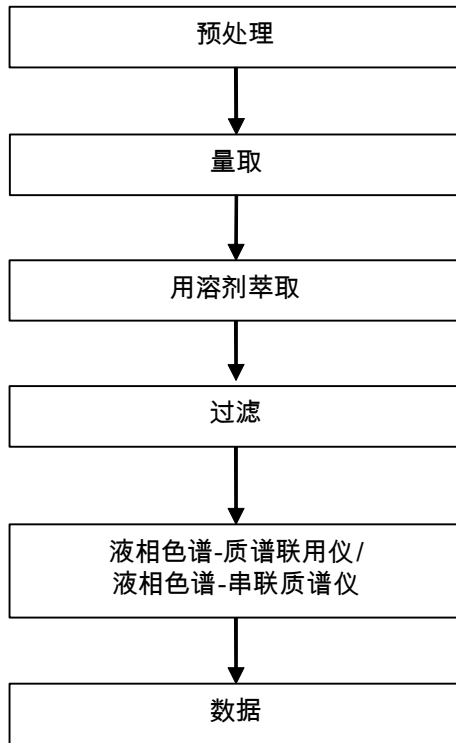
SCCP/MCCP/LCCP 检测流程图



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附件

TBBP-A 检测流程图



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