



检测报告

Test Report

报告编号 A2250395061101013E
Report No. A2250395061101013E

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报告抬头公司名称 衡所华威电子有限公司
Company Name HYSOL HUAWEI ELECTRONICS CO., LTD.
shown on Report
地 址 江苏省连云港市高新技术产业开发区振华路 8 号
Address NO.8 ZHENHUA ROAD, HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE,
LIANYUNGANG, JIANGSU

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	环氧模塑料
Sample Name	Epoxy Molding Compound
样品型号	MG20KF(KL1000-KF, KL2500-KF)MG20KF-S
Model No.	MG20KF(KL1000-KF, KL2500-KF)MG20KF-S
样品接收日期	2025.06.09
Sample Received Date	Jun. 9, 2025
样品检测日期	2025.06.09-2025.06.13
Testing Period	Jun. 9, 2025 to Jun. 13, 2025

检测要求/检测依据/检测结果

请参见下页。

Test Requested/Test Method/Test Result(s)

Please refer to the following page(s).

批 准

Approved by

陈凯敏

陈凯敏

实验室经理 Lab Manager

日

期

Date

2025.06.13

上海华测品标检测技术有限公司

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

检验检测专用章
Inspection & Testing Services

No. R794248892

上海市闵行区万芳路 1351 号

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检测要求

根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯, 砷(As), 铍(Be), 锑(Sb), 磷(P), 氟(F), 氯(Cl), 溴(Br), 碘(I), 多环芳烃(PAHs), 六溴环十二烷(HBCDD), 中链氯化石蜡(MCCPs), 四溴双酚 A (TBBP-A), 聚氯乙烯(PVC), 全氟辛酸(PFOA), 全氟辛烷磺酸(PFOS), 红磷进行测试。

Test Requested

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Arsenic(As), Beryllium(Be), Antimony(Sb), Phosphorus(P), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Polycyclic Aromatic Hydrocarbons (PAHs), Hexabromocyclododecane (HBCDD), Middle Chain Chlorinated Paraffins (MCCPs), Tetrabromobisphenol A (TBBP-A), Polyvinyl Chloride (PVC), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS), Red phosphorus in the submitted sample(s).

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结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试 总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018* Refer to US EPA 3052:1996 & US EPA 6010D:2018*	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018* Refer to US EPA 3052:1996 & US EPA 6010D:2018*	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018* Refer to US EPA 3052:1996 & US EPA 6010D:2018*	ICP-OES
磷 Phosphorus(P)	参考 US EPA 3052:1996 & US EPA 6010D:2018* Refer to US EPA 3052:1996 & US EPA 6010D:2018*	ICP-OES
氟 Fluorine (F)	BS EN 14582:2016	IC
氯 Chlorine (Cl)	BS EN 14582:2016	IC
溴 Bromine (Br)	BS EN 14582:2016	IC
碘 Iodine (I)	BS EN 14582:2016	IC
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs)	参考 US EPA 3550C:2007 & US EPA 8270E:2018* Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS(NCI)

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测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	参考 US EPA 3550C:2007 & US EPA 8321B:2007* Refer to US EPA 3550C:2007 & US EPA 8321B:2007*	LC-MS-MS/LC-MS
聚氯乙烯 Polyvinyl Chloride (PVC)	参考 JY/T 013-1996* Refer to JY/T 013-1996*	FT-IR
全氟辛酸 Perfluorooctanoic Acid(PFOA)	CEN/TS 15968:2010*	LC-MS-MS/ LC-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS)	CEN/TS 15968:2010*	LC-MS-MS/ LC-MS
邻苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
红磷 Red phosphorus*	GB/T 6040-2019, GB/T 9722-2023, GB/T 17359-2023, EPA 6010D:2018	ICP-OES, PY-GC-MS, FTIR, EM

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	013		
铅 Lead (Pb)CAS#:7439-92-1	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd) CAS#:7440-43-9	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg) CAS#:7439-97-6	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI)) CAS#:18540-29-9	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	013		
多溴联苯 Polybrominated Biphenyls (PBBs) * ¹			
一溴联苯 Monobromobiphenyl CAS#:92-66-0	N.D.	25 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl CAS#:92-86-4	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl CAS#:115245-07-3	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl CAS#:60044-24-8	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl CAS#:59080-39-6	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl CAS#:60044-26-0	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl CAS#:67733-52-2	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl CAS#:119264-60-7	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl CAS#:69278-62-2	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl CAS#:13654-09-6	N.D.	25 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	013		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) *1			
一溴二苯醚 Monobromodiphenyl ether CAS#:101-55-3	N.D.	25 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether CAS#:2050-47-7	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether CAS#:147217-78-5	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether CAS#:5436-43-1	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether CAS#:60348-60-9	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether CAS#:68631-49-2	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether CAS#:207122-16-5	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether CAS#:337513-72-1	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether CAS#:63387-28-0	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether CAS#:1163-19-5	N.D.	25 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	013		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
砷 Arsenic (As) CAS#:7440-38-2	N.D.	10 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
铍 Beryllium (Be)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
锑 Antimony (Sb)	7775 mg/kg	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
磷 Phosphorus (P)	94 mg/kg	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
氟 Fluorine (F) CAS#: 14762-94-8	N.D.	10 mg/kg
氯 Chlorine (Cl) CAS#: 22537-15-1	122 mg/kg	10 mg/kg
溴 Bromine (Br) CAS#: 10097-32-2	4514 mg/kg	10 mg/kg
碘 Iodine (I) CAS#: 14362-44-8	N.D.	10 mg/kg

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测试项目	结果 Result	方法检出限
Tested Item(s)	013	MDL
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)		
萘 Naphthalene CAS#:91-20-3	N.D.	0.2 mg/kg
菲 Phenanthrene CAS#:85-01-8	N.D.	0.2 mg/kg
蒽 Anthracene CAS#:120-12-7	N.D.	0.2 mg/kg
荧蒽 Fluoranthene CAS#:206-44-0	N.D.	0.2 mg/kg
芘 Pyrene CAS#:129-00-0	N.D.	0.2 mg/kg
蒾 Chrysene CAS#:218-01-9	N.D.	0.2 mg/kg
苯并(a)蒽 Benzo(a)anthracene CAS#:56-55-3	N.D.	0.2 mg/kg
苯并(b)荧蒽 Benzo(b)fluoranthene CAS#:205-99-2	N.D.	0.2 mg/kg
苯并(k)荧蒽 Benzo(k)fluoranthene CAS#:207-08-9	N.D.	0.2 mg/kg
苯并(j)荧蒽 Benzo(j)fluoranthene CAS#:205-82-3	N.D.	0.2 mg/kg
苯并(a)芘 Benzo(a)pyrene CAS#:50-32-8	N.D.	0.2 mg/kg
苯并(e)芘 Benzo(e)pyrene CAS#:192-97-2	N.D.	0.2 mg/kg
二苯并(a,h)蒽 Dibenzo(a,h)anthracene CAS#:53-70-3	N.D.	0.2 mg/kg
苯并(g,h,i)芘 Benzo(g,h,i)perylene CAS#:191-24-2	N.D.	0.2 mg/kg
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene CAS#:193-39-5	N.D.	0.2 mg/kg
菲,蒽,荧蒽,芘总量 Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
15 PAHs 总量 Sum 15 PAHs	N.D.	/

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可接触的表面材料中 PAHs 含量限值(mg/kg)(按风险评估的结果分类)

Maximum PAHs limits (mg/kg) for the materials with relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment

参数 Parameters	一类 Category 1	二类 Category 2		三类 Category 3	
	可放入口中的材料，或预期和皮肤接触时间超过 30 秒（长时接触）2009/48/EC 定义的玩具材料或供 3 岁以下儿童使用的产品 Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use	未包含在第一类材料中，预期和皮肤接触时间超过 30 秒(长时间接触)，或者和皮肤短时间频繁接触**的材料 Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact** with skin during the intended or foreseeable use		未包含在第一类和第二类材料中，预期和皮肤接触时间不超过 30 秒（短时间接触）的材料 Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use	
		供儿童（< 14 岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)	其他类产品 Other consumer products	供儿童（< 14 岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)	其他类产品 Other consumer products
苯并[a]芘 Benzo[a]pyrene CAS#:50-32-8	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并[e]芘 Benzo[e]pyrene CAS#:192-97-2	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并[a]蒽 Benzo[a]anthracene CAS#:56-55-3	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并[b]荧蒽 Benzo[b]fluoranthene CAS#:205-99-2	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并[j]荧蒽 Benzo[j]fluoranthene CAS#:205-82-3	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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苯并[k]荧蒽 Benzo[k]fluoranthene CAS#:207-08-9	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽Chrysene CAS#:218-01-9	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并[a,h]蒽 Dibenzo[a,h]anthracene CAS#:53-70-3	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并[g,h,i]芘 Benzo[g,h,i]perylene CAS#:191-24-2	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并[1,2,3-cd]芘 Indenol[1,2,3-cd]pyrene CAS#:193-39-5	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲, 蒽, 荧蒽, 芘 Phenanthrene, Anthracene, Fluoranthene, Pyrene	总量< 1 < 1 Sum	总量< 5 < 5 Sum	总量< 10 < 10 Sum	总量< 20 < 20 Sum	总量< 50 < 50 Sum
萘 Naphthalene CAS#:91-20-3	< 1	< 2		< 10	
15 PAHs 总量 Sum 15 PAHs	< 1	< 5	< 10	< 20	< 50

** “短时间频繁接触” 来自REACH法规附录XVII第50项的修订案(法规 (EU) No. 1272/2013)
Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment
(REGULATION (EU) No.1272/2013)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
六溴环十二烷 Hexabromocyclododecane (HBCDD) CAS#: 25637-99-4; 3194-55-6; (134237-50-6); (134237-51-7); (134237-52-8)	N.D.	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs) CAS#:85535-85-9	N.D.	100 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
四溴双酚 A Tetrabromobisphenol A (TBBP-A) CAS#:79-94-7	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
聚氯乙烯 Polyvinyl Chloride (PVC) CAS#: /	阴性 Negative	/

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
全氟辛酸 Perfluorooctanoic Acid (PFOA) CAS#:335-67-1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) CAS#:1763-23-1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基己基)酯 Bis(2- ethyl(hexyl)phthalate) (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg

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邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
*邻苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	50 mg/kg
*邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	50 mg/kg
*邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	50 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
*邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
*邻苯二甲酸二庚酯 Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	50 mg/kg
*邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	50 mg/kg
*邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
*邻苯二甲酸二壬酯 Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	50 mg/kg
*己二酸二异壬酯 Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	50 mg/kg
*邻苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
*邻苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg
*邻苯二甲酸二异戊酯 Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	50 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
邻苯二甲酸酯 Phthalates		
*对苯二甲酸二辛酯 Dioctyl terephthalate (DOTP) CAS#:6422-86-2	N.D.	50 mg/kg
*邻苯二甲酸二苄酯 Dibenzyl phthalate (DBzP) CAS#:523-31-9	N.D.	50 mg/kg
*邻苯二甲酸二苯酯 Diphenyl phthalate (DPhP) CAS#:84-62-8	N.D.	50 mg/kg
*邻苯二甲酸二烯丙酯 Diallyl phthalate (DAP) CAS#:131-17-9	N.D.	50 mg/kg
*邻苯二甲酸双十一烷酯 Diundecyl phthalates (DUP) CAS#:3648-20-2	N.D.	50 mg/kg
*邻苯二甲酸正戊基异戊基酯 N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	100 mg/kg
*邻苯二甲酸正辛正癸酯 Decyl octyl phthalate (nDnOP) CAS#:119-07-3	N.D.	50 mg/kg
*邻苯二甲酸二癸酯 Didecyl phthalate (DnDP) CAS#:84-77-5	N.D.	50 mg/kg
*己二甲酸二乙基己基酯 Di(2-ethylhexyl) Adipate (DEHA) CAS#:103-23-1	N.D.	50 mg/kg
*邻苯二甲酸二异庚酯 Di-iso-heptyl-phthalates (DIHpP) CAS#:41451-28-9	N.D.	50 mg/kg
*邻苯二甲酸二（4-甲基-2-戊基）酯 Bis-(4-methyl-2pentyl) phthalate (BMPP) CAS#:146-50-9	N.D.	50 mg/kg
*邻苯二甲酸二正十三烷酯 Ditridecyl phthalate (DITDP) CAS#:68515-47-9	N.D.	50 mg/kg
*邻苯二甲酸双十三烷酯 Dityrydecyl phthalates (DTDP) CAS#:119-06-2	N.D.	50 mg/kg
*对苯二甲酸二甲酯 Dimethyl terephthalates (DMT) CAS#:120-61-6	N.D.	50 mg/kg
*邻苯二甲酸二异十一烷酯 Diisoundecyl phthalate (DIUP) CAS#:96507-86-7	N.D.	50 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
邻苯二甲酸酯 Phthalates		
*/*2 邻苯二甲酸二异十一烷酯(支型和线性结构) Diundecyl phthalate, branched and linear (DIUP) CAS#:85507-79-5	N.D.	100 mg/kg
*/*2 邻苯二甲酸烷基酯(C7-11 支型和线性结构) 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4	N.D.	100 mg/kg
*/*2 邻苯二甲酸烷基酯(C6-8 支型结构,C7 富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6	N.D.	100 mg/kg
*对苯二甲酸双(2-羟基乙基)酯 Bis(hydroxyethyl) terephthalate (BHET) CAS#:959-26-2	N.D.	50 mg/kg
*邻苯二甲酸丁基环己基酯 1-Butyl-2-cyclohexyl phthalate (BCyP) CAS#:84-64-0	N.D.	50 mg/kg
*邻苯二甲酸丁基葵酯 Butyl decyl phthalates (BDP) CAS#:89-19-0	N.D.	50 mg/kg
*邻苯二甲酸二(2-丁氧基)乙酯 Bis(2-n-butoxyethyl) phthalate (DBEP) CAS#:117-83-9	N.D.	50 mg/kg
*邻苯二甲酸二(2-乙氧基)乙酯 Bis(2-ethoxyethyl) phthalate (DEEP) CAS#:605-54-9	N.D.	50 mg/kg
*/*2 支链和直链 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (BADP) CAS#:84777-06-0	N.D.	100 mg/kg
*/*2 邻苯二甲酸二己酯, 直链和支链 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (NHIHP) CAS#:68515-50-4	N.D.	100 mg/kg
*邻苯二甲酸丁基辛基酯 Butyl octyl phthalate (BOP) CAS#:84-78-6	N.D.	50 mg/kg
*邻苯二甲酸己基（2-乙基己基）酯 Hexyl 2-ethylhexyl phthalate (HEHP) CAS#:75673-16-4	N.D.	50 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
邻苯二甲酸酯 Phthalates		
*邻苯二甲酸二（2-丙基庚）酯 Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0	N.D.	50 mg/kg
*邻苯二甲酸二异己酯 Di-iso-hexyl-phthalates (DIHxP) CAS#:71850-09-4	N.D.	50 mg/kg
*/ ² 邻苯二甲酸二（C6-C10）烷基酯：（癸基，辛基，己基）酯与 1,2-邻苯二甲酸的复合物且邻苯二甲酸二己酯含量≥0.3% 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate CAS#:68515-51-5; 68648-93-1	N.D.	100 mg/kg
*邻苯二甲酸单丁酯 Phthalic acid,mono-n-butyl ester (MBP) CAS#:131-70-4	N.D.	50 mg/kg
*1, 2-环己烷二羧酸二异壬基酯 Diisononyl hexahydrophthalate (DINCH) CAS#:166412-78-8;474919-59-0;	N.D.	50 mg/kg
*乙酰柠檬酸三丁酯 Acetyl tributyl citrate (TBOA) CAS#:77-90-7	N.D.	50 mg/kg
*四溴苯酐二辛酯 Di(2-ethylhexyl)tetrabrabromophthalate (TBPH) CAS#:26040-51-7	N.D.	50 mg/kg
*偏苯三酸三辛酯 Trioctyl trimellitate (TOTM) CAS#:3319-31-1	N.D.	50 mg/kg
*邻苯二甲酸酐 Phthalic Anhydride (PA) CAS#:85-44-9	N.D.	50 mg/kg
*邻苯二甲酸二异丙酯 Diisoprpyl phthalate (DIPrP) CAS#:605-45-8	N.D.	50 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	013	
*红磷 Red phosphorus CAS#:/	N.D.	500 mg/kg

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样品/部位描述 Sample/Part Description

序号	CTI 样品 ID	描述
No.	CTI Sample ID	Description
1	013	黑色固体 Black solid

备注: 对于检测铅, 镉, 汞, 砷, 铍, 镭, 磷之样品已消解完全。

根据客户声明, 本报告“样品信息”中的多信息原因可能包含(但不限于): 供给不同客户、销往不同的国家或地区、曾用名或多种物质的混合物等情况。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

-*1=表中列出的是发现适合于这个分析的典型可用的校准同类物的一个例子。

-阴性表示不含有聚氯乙烯(PVC)

-*2: 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Phosphorus.

According to the client's statement, the reasons for the multiple information in the "sample information" of this report may include (but are not limited to): supplying to different buyers, being sold to different countries or regions, former names, or mixtures of several substances.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-*1=Table is an example list of typically available calibration congeners that have been found suitable for this analysis.

-Negative = Not contained Polyvinyl Chloride (PVC)

-*2: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

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注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
“*”表示该项目/方法不在 CNAS 认可范围内。

Note: The testing data and result(s) in this report is(are) just for scientific research, education,
internal quality control and product development etc.
“*” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

检测报告

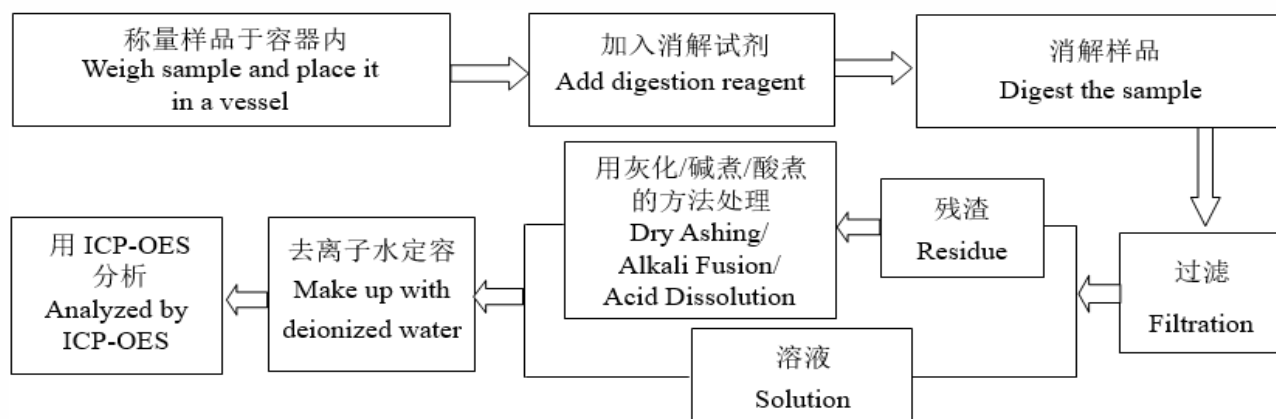
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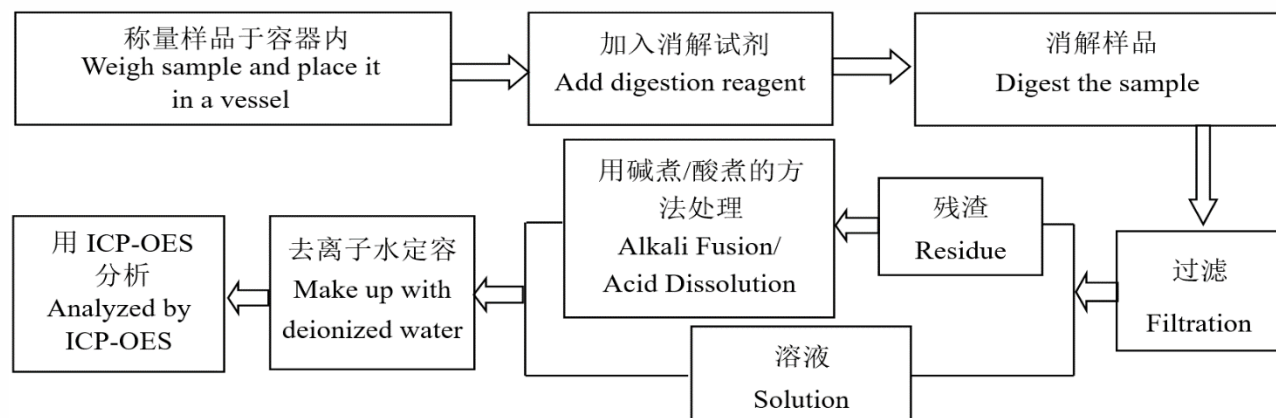
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检测流程 Test Process

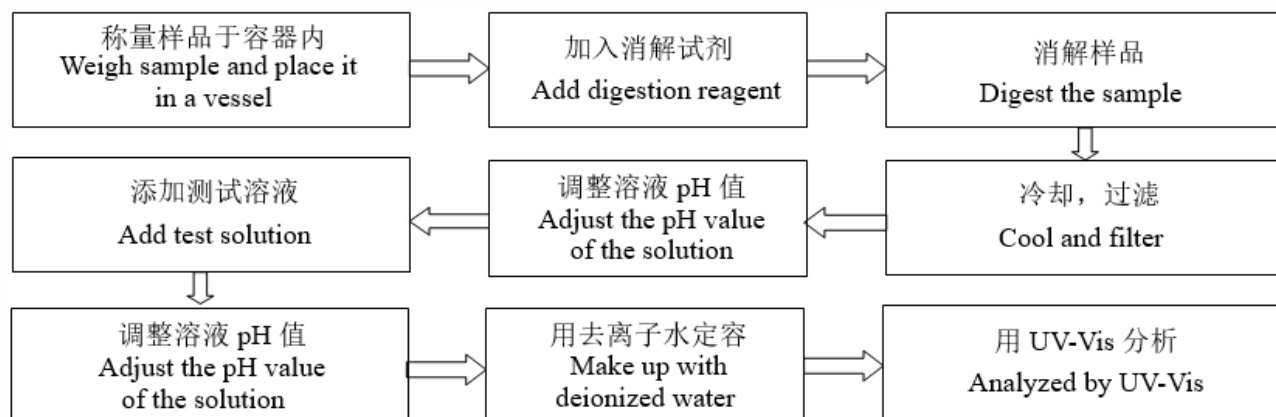
1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium(Cr)



2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

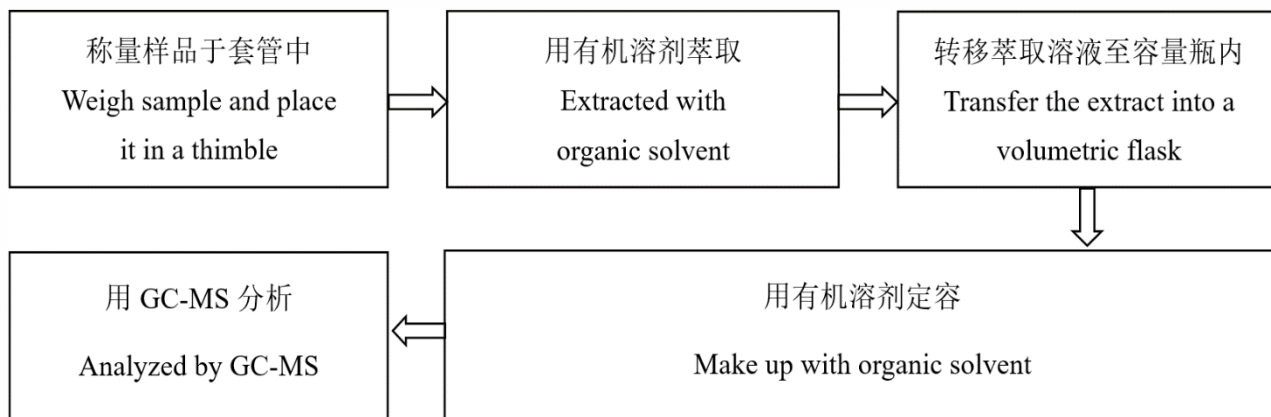


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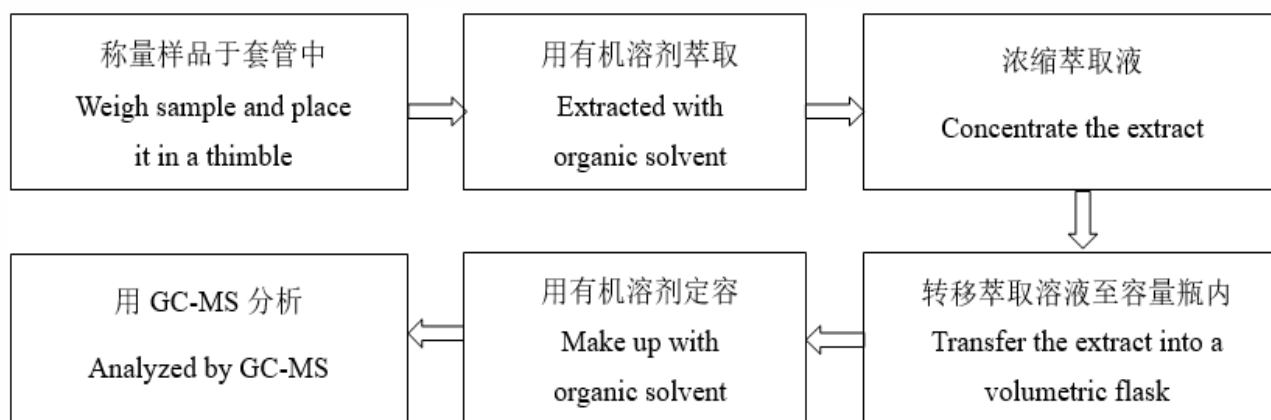
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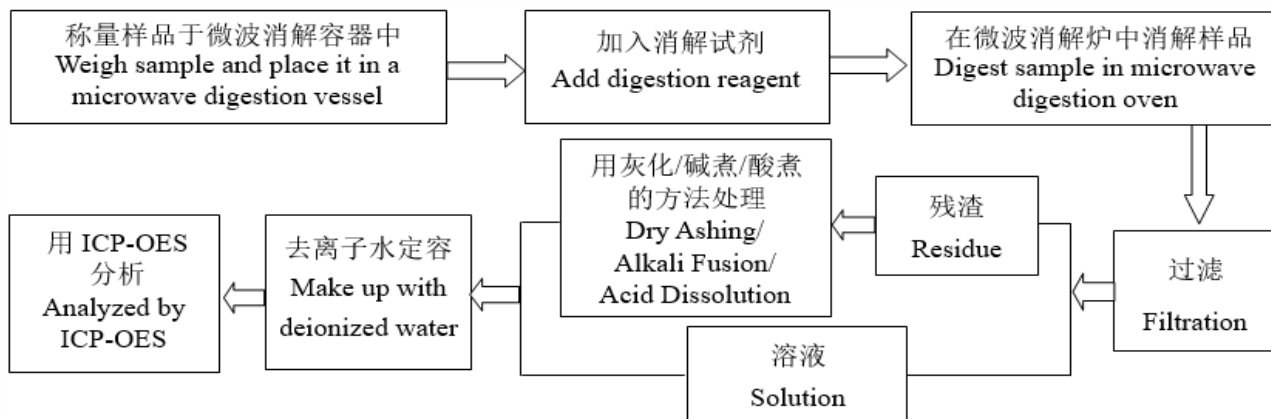
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates



6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 磷 Phosphorus(P)

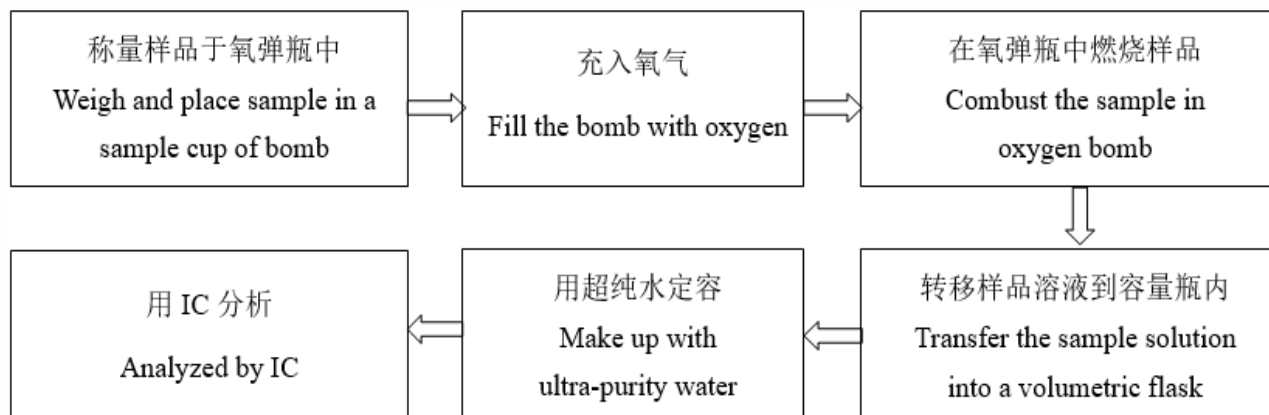


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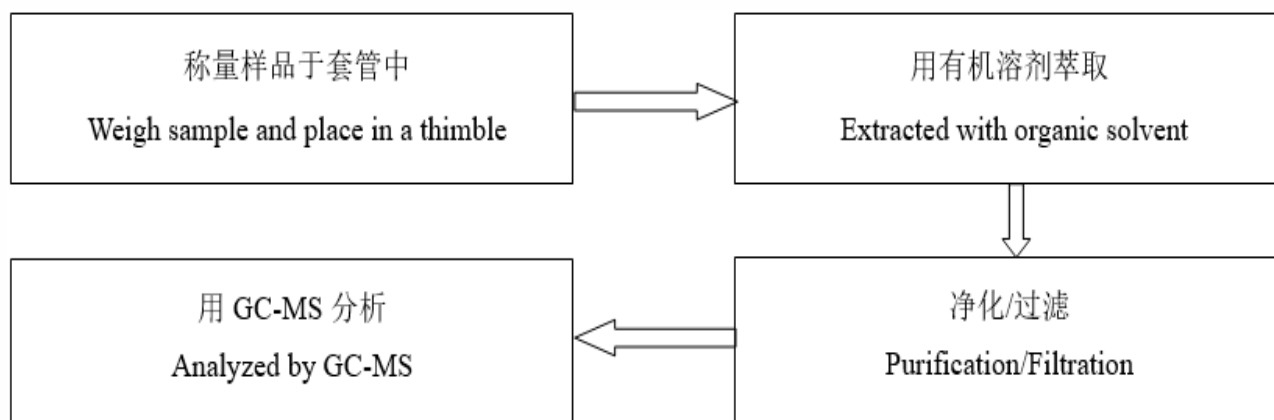
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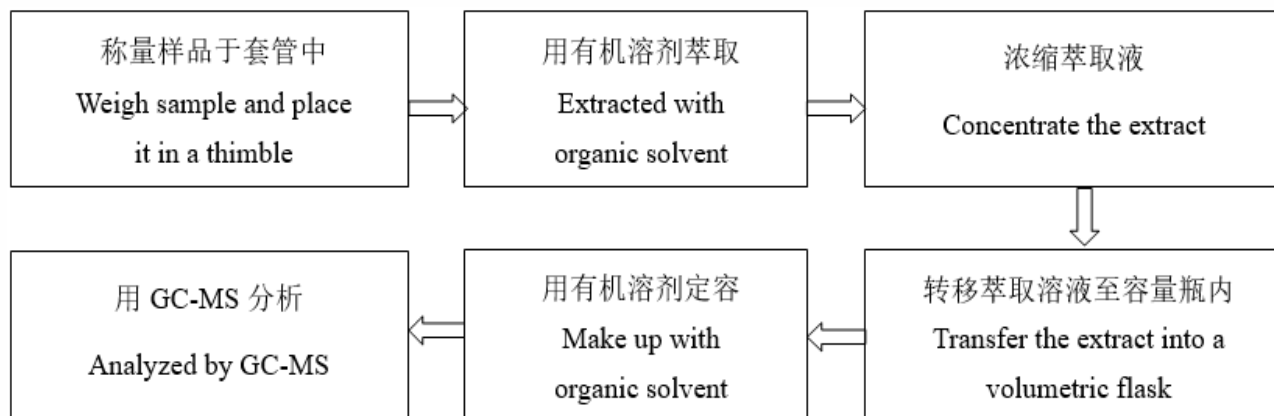
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)



9. 六溴环十二烷 Hexabromocyclododecane (HBCDD)

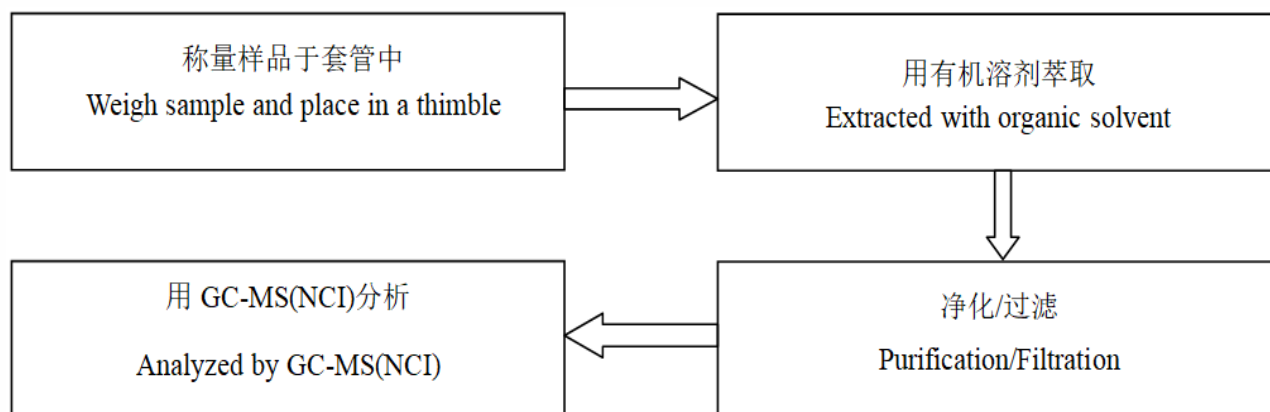


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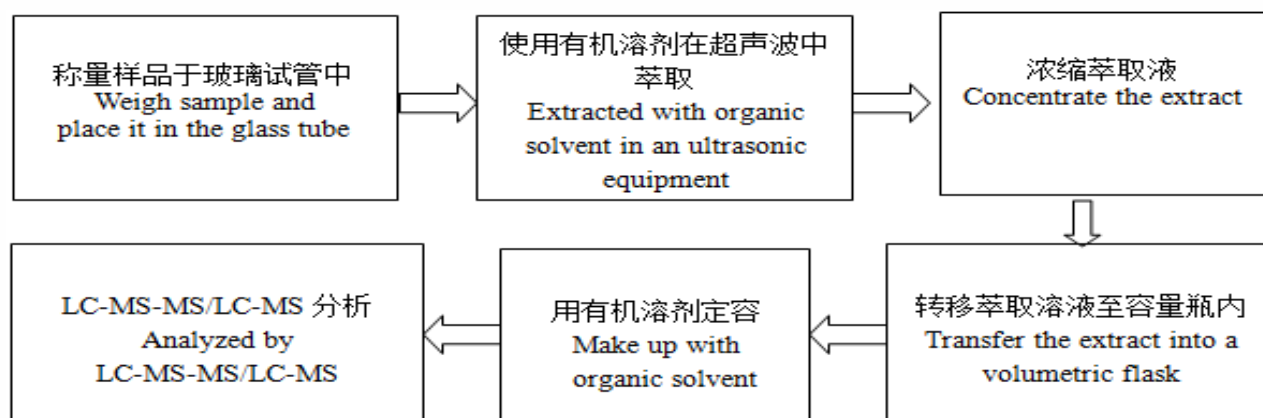
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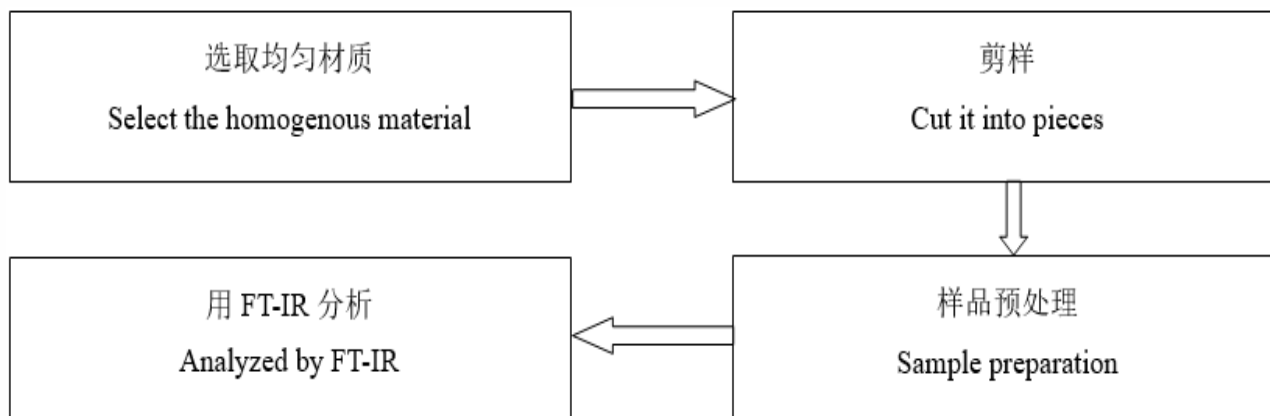
10. 中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs)



11. 四溴双酚 A Tetrabromobisphenol A (TBBP-A)



12. 聚氯乙烯 Polyvinyl Chloride (PVC)

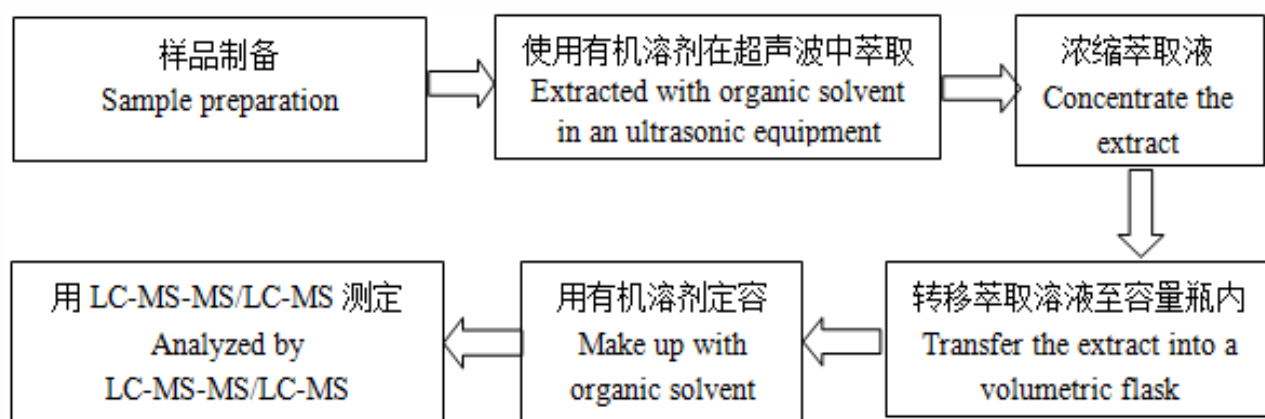


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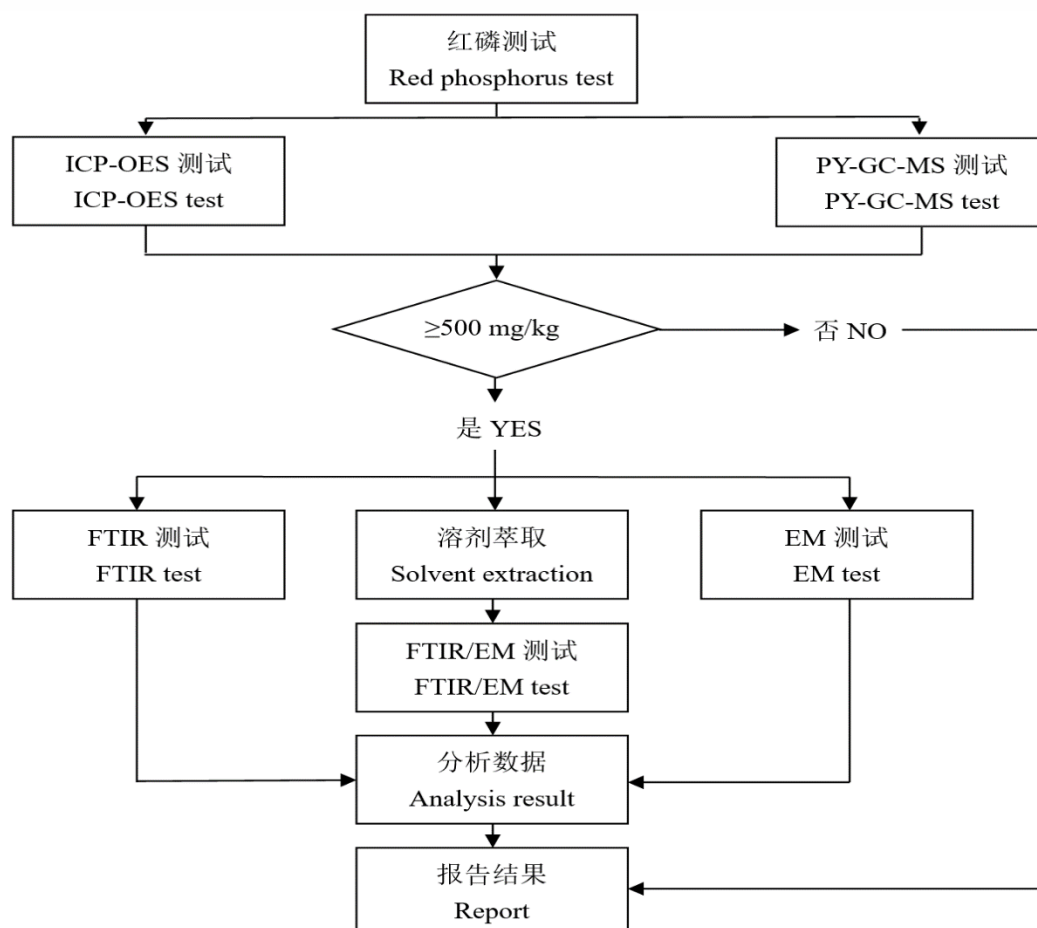
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13. 全氟辛酸 (PFOA)Perfluorooctanoic Acid(PFOA), 全氟辛烷磺酸 (PFOS)Perfluorooctane Sulfonates(PFOS)



14. 红磷 Red phosphorus

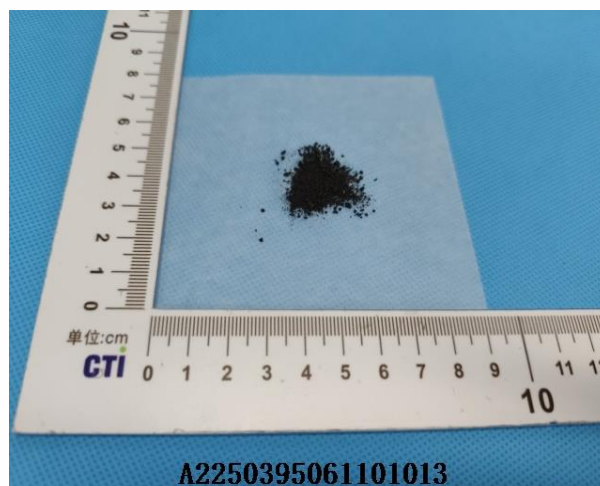


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样品图片 Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
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In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***