

测试报告

No. SHAMPLP2018826602

日期: 2020年09月27日 第1页,共38页

江阴新顺微电子有限公司
江苏省江阴市长山大道78号

以下测试之样品是由申请者所提供及确认:三扩材料半导体芯片

SGS工作编号: SHIN2009056818PC - SH
样品接收日期: 2020年09月18日
测试周期: 2020年09月18日 - 2020年09月23日
测试要求: 根据客户要求测试
测试方法: 请参见下一页
测试结果: 请参见下一页

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授权签名

Denki Zheng 郑文轩
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SGS-CSTC Technical Services (Shanghai) Co., Ltd.
Testing Center - Client Responsibility

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn
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测试报告

No. SHAMPLP2018826602

日期: 2020年09月27日 第2页,共38页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA20-188266.001	彩色固体件

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

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017和IEC 62321-6:2015, 采用ICP-OES, UV-Vis和GC-MS进行分析。

测试项目	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
六价铬 (Cr(VI))	1000	mg/kg	8	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
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	001
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

备注:

(1) 最大允许限值引用自RoHS指令(EU) 2015/863。

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

(2) 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。

(3) DEHP, BBP, DBP 和 DIBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP, BBP, DBP 和 DIBP含量进行了限制。

卤素

测试方法: 参照EN 14582: 2016方法 测定, 采用 IC进行分析.

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

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

测试项目	单位	MDL	001
铍 (Be)	mg/kg	5	ND
镍 (Ni)	mg/kg	5	2417
锑 (Sb)	mg/kg	10	ND
三氧化二锑(Sb ₂ O ₃) ♦	mg/kg	12	ND
砷 (As)	mg/kg	10	ND



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日期: 2020年09月27日 第4页,共38页

备注:

(1)◆ 三氧化二锑结果由锑含量换算得到

放射性元素

测试方法: 参照US EPA 方法3052:1996测定,采用ICP-MS进行分析.

测试项目	单位	MDL	001
铯 (Cs)	mg/kg	1	ND*
锶 (Sr)	mg/kg	1	ND*
铀 (U)	mg/kg	1	ND*
钍 (Th)	mg/kg	1	ND*

备注:

* 用盖氏计数器未检测到放射性

有机锡化合物

测试方法: 参考ISO 17353: 2004, 采用 GC-MS进行分析.

测试项目	单位	MDL	001
三丁基锡 (TBT)	mg/kg	0.02	ND
三丁基锡氧化物(TBTO) ◆	mg/kg	0.02	ND
三丙基锡 (TPT)	mg/kg	0.02	ND
单丁基锡 (MBT)	mg/kg	0.02	ND
二丁基锡(DBT)	mg/kg	0.02	ND
四丁基锡(TTBT)	mg/kg	0.0	ND
单辛基锡 (MOT)	mg/kg	0.02	ND
二辛基锡 (DOT)	mg/kg	0.02	ND
三环己基氯化锡 (TCyT)	mg/kg	0.02	ND
三辛基锡(TOT)	mg/kg	0.02	ND
三丙基锡 (TPT)	mg/kg	0.02	ND

备注:

(1)◆ 三丁基锡氧化物(TBTO): 由三丁基锡(TBT)的最差含量换算得之

臭氧破坏物质(ODS)



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测试方法: 参照 US EPA 5021A-2014 方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	001
CFC				
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	76-13-1	µg/g	0.1	ND
CFC-114	76-14-2	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112	76-11-9	µg/g	0.1	ND
CFC-112	76-12-0	µg/g	0.1	ND
CFC-113	354-58-5	µg/g	0.1	ND
CFC-114	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-215	76-17-5	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-216	1652-80-8	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
HCFC				
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND
HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND



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Testing Center - Client Relationship

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测试项目	CAS NO.	单位	MDL	001
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-261	420-97-3	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
HCFC-262	420-99-5	µg/g	0.1	ND
Halon				
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND
HBFC				
CHF2Br	1511-62-2	µg/g	0.1	ND
CH2FBr	373-52-4	µg/g	0.1	ND
C ₂ HFBr ₄		µg/g	0.1	ND
C ₂ HF ₂ Br ₃		µg/g	0.1	ND
C ₂ H ₂ F ₃ Br ₂	354-04-1	µg/g	0.1	ND
C ₂ HF ₄ Br		µg/g	0.1	ND
C ₂ H ₂ F ₃ Br ₃		µg/g	0.1	ND
C ₂ H ₂ F ₂ Br ₂	75-82-1	µg/g	0.1	ND
C ₂ H ₂ F ₃ Br	421-06-7	µg/g	0.1	ND
C ₂ H ₃ FBr ₂		µg/g	0.1	ND
C ₂ H ₃ F ₂ Br	359-07-9	µg/g	0.1	ND



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C2H4FBr	762-49-2	µg/g	0.1	ND
C3HFBr6		µg/g	0.1	ND
C3HF2Br5		µg/g	0.1	ND
C3HF3Br4		µg/g	0.1	ND
C3HF4Br3		µg/g	0.1	ND
C3HF5Br2		µg/g	0.1	ND
C3HF6Br		µg/g	0.1	ND
C3H2FBr5		µg/g	0.1	ND
C3H2F2Br4		µg/g	0.1	ND
C3H2F3Br3		µg/g	0.1	ND
C3H2F4Br2		µg/g	0.1	ND
C3H2F5Br		µg/g	0.1	ND
C3H3FBr4		µg/g	0.1	ND
C3H3F2Br3		µg/g	0.1	ND
C3H3F3Br2		µg/g	0.1	ND
C3H3F4Br		µg/g	0.1	ND
C3H4FBr3		µg/g	0.1	ND
C3H4F2Br2		µg/g	0.1	ND
C3H4F3Br		µg/g	0.1	ND
C3H5FBr2		µg/g	0.1	ND
C3H5F2Br		µg/g	0.1	ND
C3H6FBr		µg/g	0.1	ND
Others				
二溴氟甲烷	1868-53-7	µg/g	0.1	ND
溴甲烷	74-83-9	µg/g	0.1	ND
溴氯甲烷	74-97-5	µg/g	0.1	ND
HFC				
HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee	-	µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND
HFC-227ea	-	µg/g	0.1	ND
HFC-236cb	-	µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND



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No. SHAMPLP2018826602

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测试项目	CAS NO.	单位	MDL	001
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa	-	µg/g	0.1	ND
HFC-365mfc	-	µg/g	0.1	ND
PFC				
全氟甲烷	75-73-0	µg/g	0.1	ND
全氟乙烷	76-16-4	µg/g	0.1	ND
全氟丙烷	76-19-7	µg/g	0.1	ND
全氟丁烷	355-25-9	µg/g	0.1	ND
全氟戊烷	678-26-2	µg/g	0.1	ND
全氟己烷	355-42-0	µg/g	0.1	ND
全氟环丁烷	115-25-3	µg/g	0.1	ND
CHC				
1,3-二氯丙烷	142-28-9	µg/g	0.1	ND
2,2-二氯丙烷	594-20-7	µg/g	0.1	ND
四氯化碳	56-23-5	µg/g	0.1	ND
氯乙烷	75-00-3	µg/g	0.1	ND
三氯甲烷	67-66-3	µg/g	0.1	ND
一氯甲烷	74-87-3	µg/g	0.1	ND
顺1,2-二氯乙烯	156-59-2	µg/g	0.1	ND
顺1,3-二氯丙烯	10061-01-5	µg/g	0.1	ND
六氯丁二烯	87-68-3	µg/g	0.1	ND
二氯甲烷	75-09-2	µg/g	0.1	ND
四氯乙烯	127-18-4	µg/g	0.1	ND
反1,2-二氯乙烯	156-60-5	µg/g	0.1	ND
反1,3-二氯丙烯	10061-02-6	µg/g	0.1	ND
三氯乙烯	79-01-6	µg/g	0.1	ND
1,1,1,2-四氯乙烷	630-20-6	µg/g	0.1	ND
甲基氯仿	71-55-6	µg/g	0.1	ND
1,1,2,2-四氯乙烷	79-34-5	µg/g	0.1	ND
1,1,2-三氯乙烷	79-00-5	µg/g	0.1	ND
1,1-二氯乙烷	75-34-3	µg/g	0.1	ND
1,1-二氯乙烯	75-35-4	µg/g	0.1	ND
1,1-二氯丙烯	563-58-6	µg/g	0.1	ND
1,2,3-三氯丙烷	96-18-4	µg/g	0.1	ND
1,2-二氯乙烷	107-06-2	µg/g	0.1	ND
1,2-二氯丙烷	78-87-5	µg/g	0.1	ND



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Testing Center-Client's Property

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溶剂残留

测试方法: 参照US EPA 方法8260D: 2018和US EPA 方法 5000:1996, 采用GC-MS进行分析。

测试项目	单位	MDL	001
五氯乙烷	mg/kg	5	ND
1,2-二氯乙烯	mg/kg	5	ND

辛基酚聚氧乙烯醚(OPEOs), 壬基酚聚氧乙烯醚(NPEOs), 壬基酚 (NP) 和辛基酚(OP)

测试方法: 参考ISO 18254-1:2016, 采用HPLC-MS进行分析。

测试项目	单位	MDL	001
壬基酚(NP)	mg/kg	10	ND
辛基酚(OP)	mg/kg	10	ND
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	30	ND
辛基酚聚氧乙烯醚(OPEOs)	mg/kg	30	ND

备注:

- (1) NP和NPEOs参考信息:1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第46条(前身为2003/53/EC): 当用于下属用途时,不允许NP、NPEOs质量浓度等于或高于0.1%的物料或者配置品投放市场:工业和公共机构清洁,家用清洗,纺织品和皮革加工,农用动物乳房清洗/浸润剂的乳化剂,金属加工,纸浆和纸张的制造,化妆品,其他个人护理用品和杀虫剂和生物农药中的复合赋形剂
详细信息请参见Regulation (EC) No 552/2009
- (2) 需要时采用GC-MS进行确认

石棉

测试方法: 参考NIOSH 9000:2015, ISO 22262-1:2012, 用X射线衍射仪(XRD), 偏光显微镜(PLM)测定。

测试项目	CAS NO.	单位	MDL	001
阳起石	77536-66-4	%	0.1	阴性
铁石棉	12172-73-5	%	0.1	阴性
直闪石	77536-67-5	%	0.1	阴性



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测试报告

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测试项目	CAS NO.	单位	MDL	001
温石棉	12001-29-5	%	0.1	阴性
青石棉	132207-32-0			
	12001-28-4	%	0.1	阴性
透闪石	77536-68-6	%	0.1	阴性

备注:

(1) 阴性=未检出石棉, 阳性=检出石棉

红磷

测试方法: SGS内部方法(SHTC- CHEM- SOP -342-T), 采用ICP-OES和热裂解GC-MS进行分析。

测试项目	单位	MDL	001
红磷	mg/kg	500	ND

备注:

阳性测试结果基于最坏情况考虑, 并经热裂解GC-MS确认。

二-(2,3-二溴丙基)-磷酸酯(BDBPP), 三-(2,3-二溴丙基)-磷酸酯(TDBPP/TRIS)

测试方法: 内部方法 (SHTC- CHEM - SOP -102 -T). 采用 LC-MS进行测试。

测试项目	CAS NO.	单位	MDL	001
二-(2,3-二溴丙基)-磷酸酯(BDBPP)	5412-25-9	mg/kg	5	ND
三-(2,3-二溴丙基)-磷酸酯(TDBPP/TRIS)	126-72-7	mg/kg	5	ND

甲醛

测试方法: 参照ISO 17226-1:2018, 采用HPLC-DAD进行分析。



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测试项目	单位	MDL	001
甲醛	mg/kg	16	ND

双酚-A

测试方法: 参照US EPA 3550C: 2007, 采用HPLC-DAD-MS进行分析.

测试项目	单位	MDL	001
双酚A	mg/kg	1	ND

表面离子

测试方法: 参照US EPA 3550C:2007 方法测定, 采用LC-MS进行分析.

测试项目	单位	MDL	001
DTDMAC、DODMAC/DSDMAC、DHTDMAC	mg/kg	40	ND
二牛油基二甲基氯化铵(DTDMAC)	mg/kg	20	ND
二硬脂基二甲基氯化铵(DODMAC/DSDMAC)	mg/kg	10	ND
二(硬化牛油脂基)二甲基氯化铵 (DHTDMAC)	mg/kg	10	ND

三氯生

测试方法: 参照 EPA 3550C: 2007 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
三氯生	mg/kg	10	ND

十溴二苯乙烷(DeBDethane)

测试方法: 参照US EPA 8270D:2014/3550C: 2007 方法测定, 采用GC-MS进行分析.



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测试项目	CAS NO.	单位	MDL	001
十溴二苯乙烷(DeBDethane)	84852-53-9	mg/kg	25	ND

聚氯乙烯(PVC)

测试方法: SGS内定方法 (SHTC- CHEM- SOP -115-T), 采用FTIR-HATR进行分析.

测试项目	CAS NO.	单位	MDL	001
聚氯乙烯(PVC)	9002-86-2	-	-	阴性

备注:

(1) 阴性=未检测到, 阳性=已检测到

四溴双酚-A

测试方法: 参照US EPA 3550C: 2007方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
四溴双酚-A	mg/kg	10	ND

多氯三联苯(PCTs)

测试方法: 参照EPA 8082A: 2007方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

二甲苯麝香和麝香酮

测试方法: 参照 US EPA 3550C:2007方法测定, 采用 GC-MS进行分析.



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测试项目	单位	MDL	001
二甲苯麝香	mg/kg	10	ND
麝香酮	mg/kg	10	ND

感官测试-气味试验

测试方法: 参照PV3900-2000标准.

样品 001:

储存条件类型	储存条件1	储存条件2	储存条件3
1	2.0 级	2.5 级	3.5 级
2	2.0 级	2.5 级	3.5 级
3	2.5 级	3.0 级	3.5 级
4	2.5 级	2.5 级	3.0 级
5	2.5 级	3.0 级	3.5 级
平均值	2.5 级	2.5 级	3.5 级

1) 评分级别:

评分级别	描述
1 级	不易感觉到
2 级	可感觉到, 不令人讨厌
3 级	可明显感觉到, 但也不令人讨厌
4 级	令人讨厌
5 级	非常令人讨厌
6 级	无法忍受

2) 试样应用范围:

类型	应用范围
A	弹簧夹头, 柱塞, 金属扣眼, 及其他小零件
B	扶手, 烟灰缸, 握柄, 变速排档杆及其他中等程度大小的零件
C	绝缘材料, 薄膜, 皮革, 覆盖材料, 泡沫, 地毯及其他大幅使用的材料

3) 储存条件:

类型	温度	老化时间
1	(23 ± 2)°C	(24 ± 1) h
2	(40 ± 2)°C	(24 ± 1) h
3	(80 ± 2)°C	2h ± 10 min.

偶氮染料

测试方法: 参考EN 14362-1:2012 - 采用GC-MS/HPLC-DAD 进行分析.

测试项目	CAS NO.	单位	MDL	001
4-氨基联苯	92-67-1	mg/kg	5	ND



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测试项目	CAS NO.	单位	MDL	001
对二氨基联苯	92-87-5	mg/kg	5	ND
4-氯邻甲苯	95-69-2	mg/kg	5	ND
2-萘胺	91-59-8	mg/kg	5	ND
邻氨基二甲基偶氮苯	97-56-3	mg/kg	5	ND
2-氨基-4-硝基甲苯	99-55-8	mg/kg	5	ND
对氯苯胺	106-47-8	mg/kg	5	ND
2, 4-二氨基苯甲醚	615-05-4	mg/kg	5	ND
4,4'-二氨基二苯甲烷	101-77-9	mg/kg	5	ND
3,3'-二氯联苯胺	91-94-1	mg/kg	5	ND
3,3'-二甲氧基联苯胺	119-90-4	mg/kg	5	ND
3,3'-二甲基联苯胺	119-93-7	mg/kg	5	ND
3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	mg/kg	5	ND
3-氨基对甲苯甲醚 (p-克利酞)	120-71-8	mg/kg	5	ND
4,4'-次甲基-双- (2-氯苯胺)	101-14-4	mg/kg	5	ND
4,4'-二氨基二苯醚	101-80-4	mg/kg	5	ND
4,4'-二氨基二苯硫醚	139-65-1	mg/kg	5	ND
邻甲苯胺	95-53-4	mg/kg	5	ND
2,4-二氨基甲苯	95-80-7	mg/kg	5	ND
2,4,5-三甲苯胺	137-17-7	mg/kg	5	ND
4-氨基偶氮苯	60-09-3	mg/kg	5	ND
邻甲氧基苯胺	90-04-0	mg/kg	5	ND
2, 4-二甲苯代胺	95-68-1	mg/kg	5	ND
2, 6-二甲代苯胺	87-62-7	mg/kg	5	ND

结论

**

备注:

- (1) EN 14362-1:2012 方法使4-氨基偶氮苯(CAS No:60-09-3) 在本实验条件下进一步裂解为非禁用的胺:苯胺或1,4-苯二胺. 如果经上述测试方法没有检出苯胺和/或1,4-苯二胺(i.e. <5mg/kg), 则认为 4-氨基偶氮苯(CAS No:60-09-3) “未检出” (i.e. <5mg/kg). 否则, 将采用EN 14362-3:2012 方法验证4-氨基偶氮苯的存在.
- (2) ** =对于纺织品, 要求相关苯胺含量不超过30mg/kg, 此测试方法仅适用于纺织品, 测试结果仅供客户参考.
- (3) 4 氨基联苯(CAS No. 92-67-1), 2 萘胺(CAS number 91-59-8), 2,4 二氨基苯甲醚(CAS No. 615-05-4) 有检出时, 如果没有进一步的信息 (如染料的化学结构) 提供, 并不能确认使用了禁用的偶氮染料.
- (4) 当样品中含有聚氨酯材料 (如含PU泡沫、PU涂层和PU胶印) 时, 某些胺类, 若4,4' 二氨基二苯甲烷(MDA, CAS No. 101-77-9) 和 2,4 二氨基甲苯(TDA, CAS No. 95-80-7) 有检出, 并不能确认其来自PU材料而非禁用偶氮染料.
- (5) 当样品中含有胶印时, 若4,4' 二氨基二苯甲烷(MDA, CAS No. 101-77-9) 有检出, 需要注意该物质可能不是来源于禁用的偶氮染料, 而是来源于其它物料, 如化学固色剂.



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邻苯二甲酸盐(或酯)

测试方法: 参照EN 14372: 2004的方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND

苯并三唑类紫外吸收剂

测试方法: 参照US EPA 3550C: 2007, 采用GC-MS进行分析.

测试项目	单位	MDL	001
2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑	mg/kg	5	ND
2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑	mg/kg	5	ND

四氯苯酚 (TeCP), 三氯苯酚 (TCP)

测试方法: 参照LFGB § 64 BVL B 82.02.8 - 2001, 采用GC-MS进行分析.

测试项目	单位	MDL	001
2,3,5,6-四氯苯酚(2,3,5,6-TeCP)	mg/kg	0.05	ND
2,4,6-三氯苯酚(2,4,6-TCP)	mg/kg	0.05	ND
2,3,6-三氯苯酚(2,3,6-TCP)	mg/kg	0.05	ND
2,3,5-三氯苯酚(2,3,5-TCP)	mg/kg	0.05	ND
2,4,5-三氯苯酚(2,4,5-TCP)	mg/kg	0.05	ND
2,3,4-三氯苯酚(2,3,4-TCP)	mg/kg	0.05	ND
3,4,5-三氯苯酚(3,4,5-TCP)	mg/kg	0.05	ND



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测试报告

No. SHAMPLP2018826602

日期: 2020年09月27日 第16页,共38页

测试项目

三氯苯酚(TriCP总和)

单位	MDL	001
mg/kg	-	ND

VOC

测试方法: 参照US EPA 5021A:2014 方法测定, 采用HS-GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	001
三氯甲烷	67-66-3	µg/g	1	ND
1,1,2,2-四氯乙烷	79-34-5	µg/g	1	ND
1,1,1,2-四氯乙烷	630-20-6	µg/g	1	ND
1,1,2-三氯乙烷	79-00-5	µg/g	1	ND
1,1-二氯乙烷	75-34-3	µg/g	1	ND
二氯甲烷	75-09-2	µg/g	1	ND
1,1-二氯乙烯	75-35-4	µg/g	1	ND
四氯化碳	56-23-5	µg/g	1	ND
四氯乙烯	127-18-4	µg/g	1	ND

多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2019:01 PAK 方法测试, 采用 GC-MS 进行分析.

测试项目	限值	单位	MDL	001
苯并(a)芘 (BaP)	1	mg/kg	0.1	ND
苯并(e)芘 (BeP)	1	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	1	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	1	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	1	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	1	mg/kg	0.1	ND
蒽 (CHR)	1	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	1	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯) (BPE)	1	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	1	mg/kg	0.1	ND
菲 (PHE)	-	mg/kg	0.1	ND
芘 (PYR)	-	mg/kg	0.1	ND
蒽 (ANT)	-	mg/kg	0.1	ND
荧蒽 (FLT)	-	mg/kg	0.1	ND
4项多环芳香烃总和[菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	50	mg/kg	-	ND
萘 (NAP)	10	mg/kg	0.1	ND



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测试报告

No. SHAMPLP2018826602

日期: 2020年09月27日 第17页,共38页

测试项目

15项多环芳香烃总和
材料分类

限值	单位	MDL	001
50	mg/kg	-	ND
-	-	-	3

备注:

根据客户提供的信息, 测试样品为产品安全法涉及的非儿童使用产品。

AfPS (德国产品安全委员会): 多环芳香烃的要求

参数 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 ^c 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)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (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)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(i)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (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)芘(二苯并芘) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH之和	< 1	< 5	< 10	< 20	< 50

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。

乙二醇醚

测试方法: 参照US EPA 方法3550C:2007方法测定, 采用GC-MS进行分析

测试项目

测试项目	CAS NO.	单位	MDL	001
乙二醇二甲醚 (EGDME)	110-71-4	mg/kg	10	ND
乙二醇单甲醚(EGME)	109-86-4	mg/kg	10	ND
乙二醇乙醚(EGEE)	110-80-5	mg/kg	10	ND



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测试报告

No. SHAMPLP2018826602

日期: 2020年09月27日 第18页,共38页

测试项目	CAS NO.	单位	MDL	001
2-甲氧基1-丙醇基乙酸酯(1PG2MEA)	70657-70-4	mg/kg	10	ND
乙二醇甲醚乙酸酯(EGMEA)	110-49-6	mg/kg	10	ND
乙二醇乙醚乙酸酯(EGEEA)	111-15-9	mg/kg	10	ND
二乙二醇单甲醚(DEGME)	111-77-3	mg/kg	10	ND
二乙二醇二甲醚(DEGDME)	111-96-6	mg/kg	10	ND
三甘醇二甲醚(TEGDME)	112-49-2	mg/kg	10	ND

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Testing Center - China Branch

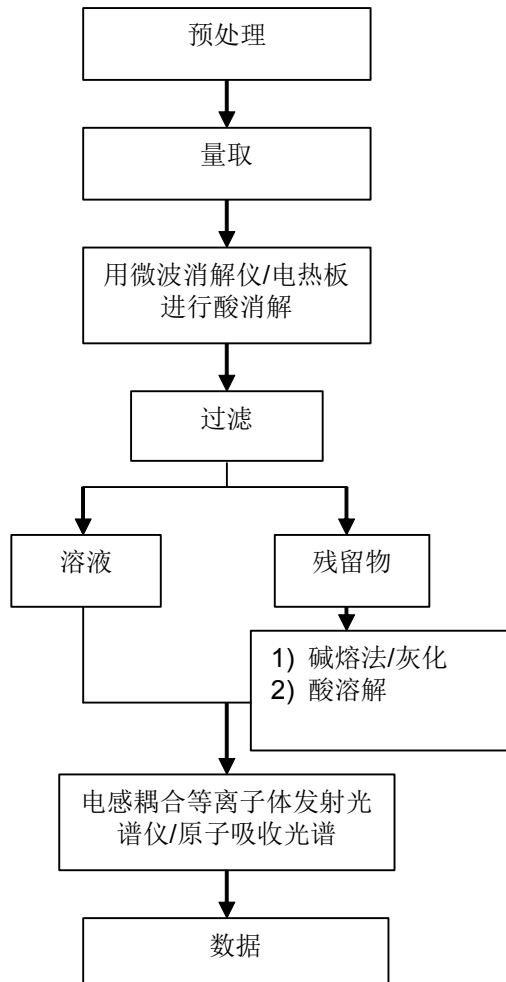
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附件

元素(IEC62321) 测试流程图

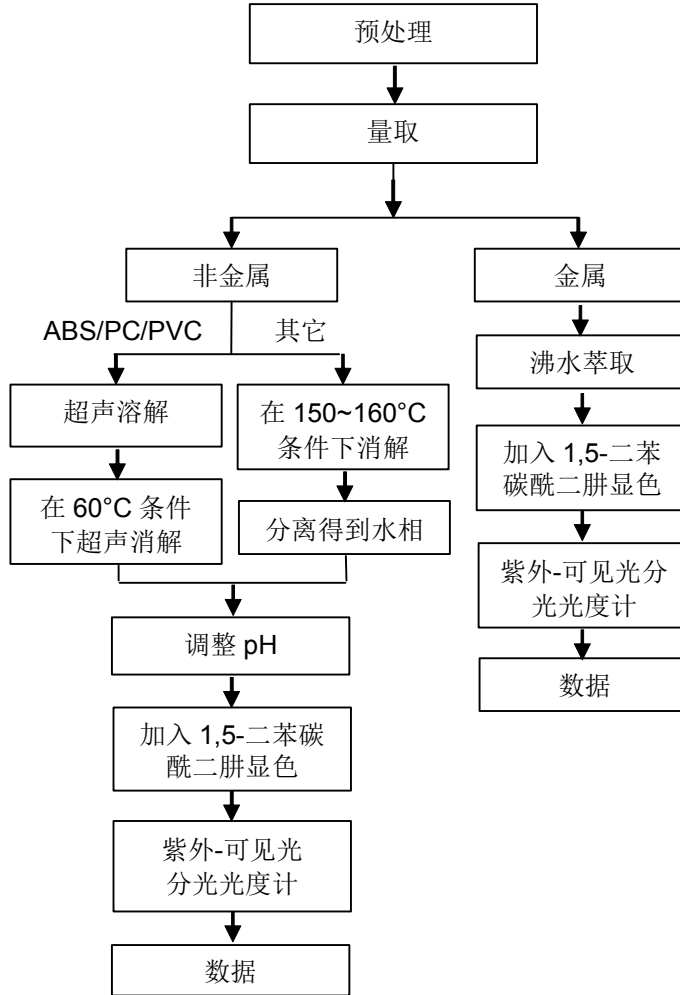
- 1) 分析人员: 金叶/宋珂静
- 2) 项目负责人: 徐亮/张小波
- 3) 样品按照下述流程被完全消解



附件

六价铬测试流程图

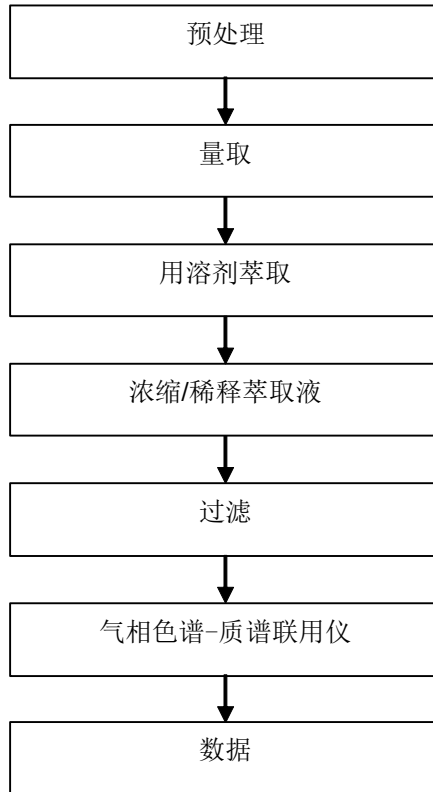
- 1) 分析人员: 王永旭
- 2) 项目负责人: 杨小龙



附件

PBBs/PBDEs 测试流程图

- 1) 分析人员: 徐刚
- 2) 项目负责人: 马永存



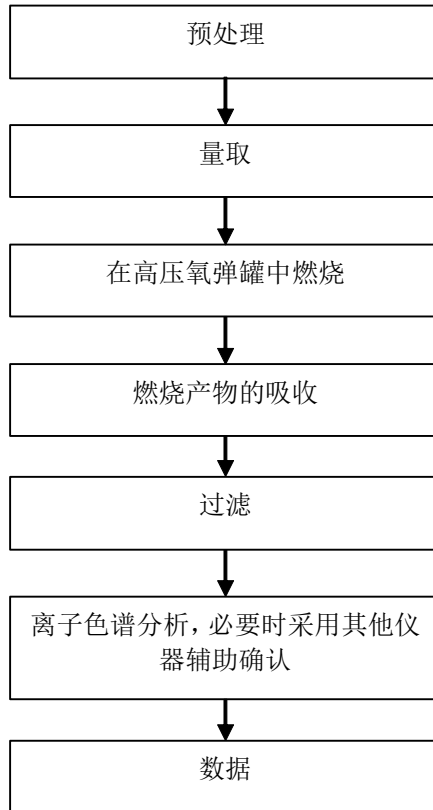
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Halogen(氧弹法)测试流程图

- 1) 分析人员: 徐诚
- 2) 项目负责人: 陈俊焜



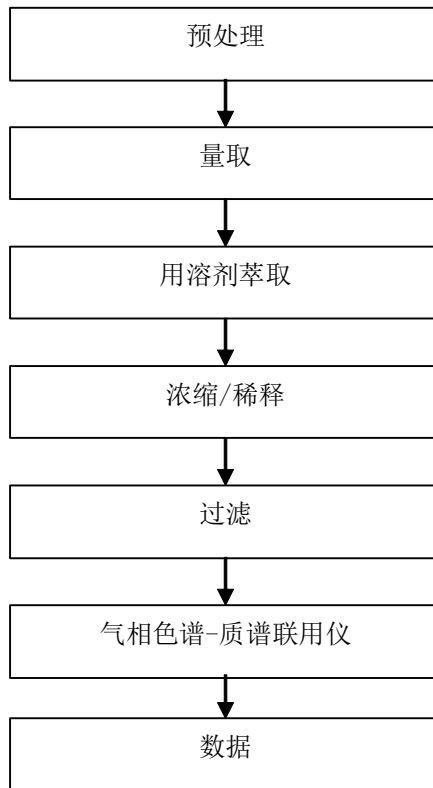
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PCT 测试流程图

- 1) 分析人员: 戴芳鸣
- 2) 项目负责人: 黄婷



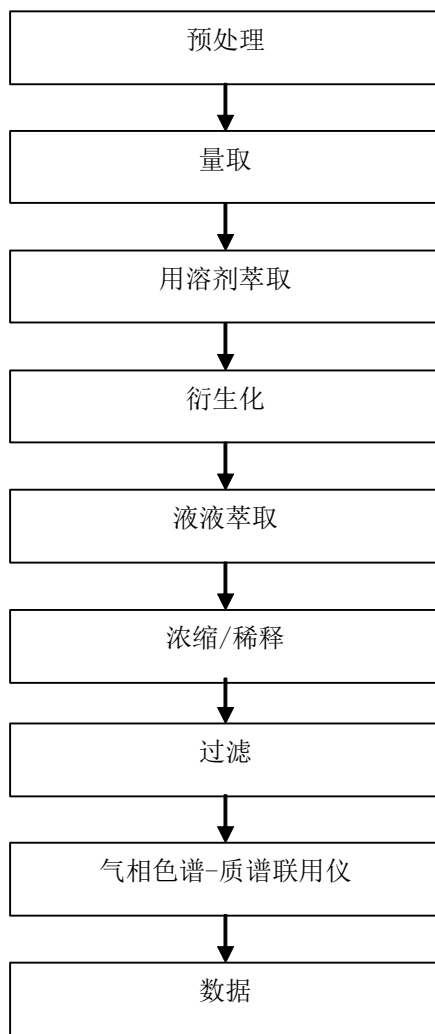
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Organotin 测试流程图

- 1) 分析人员: 王亚丽
- 2) 项目负责人: 马永存



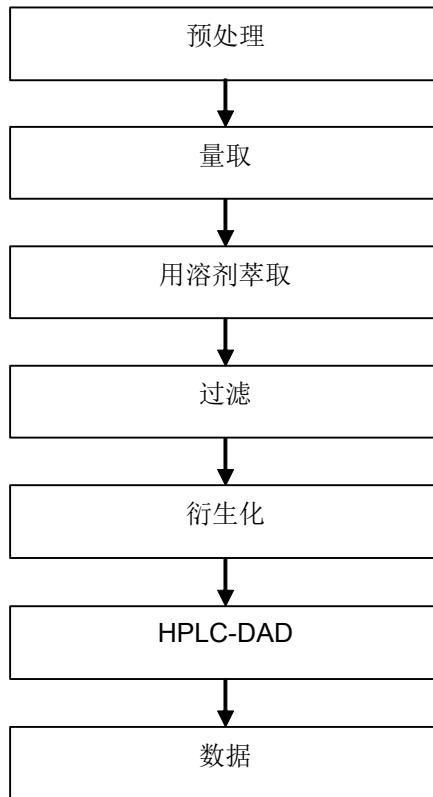
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甲醛测试流程图

- 1) 分析人员: 束礼伟
- 2) 项目负责人: 孙佩璇



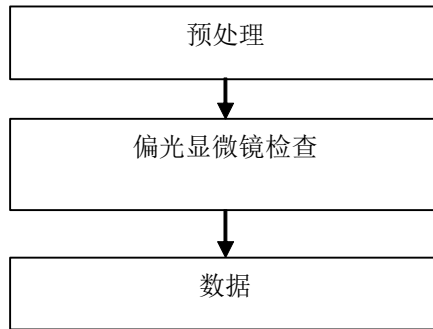
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Asbestos 测试流程图

- 1) 分析人员: 胡浩然/张玲玲/朱慧瑜
- 2) 项目负责人: 陈艳丽



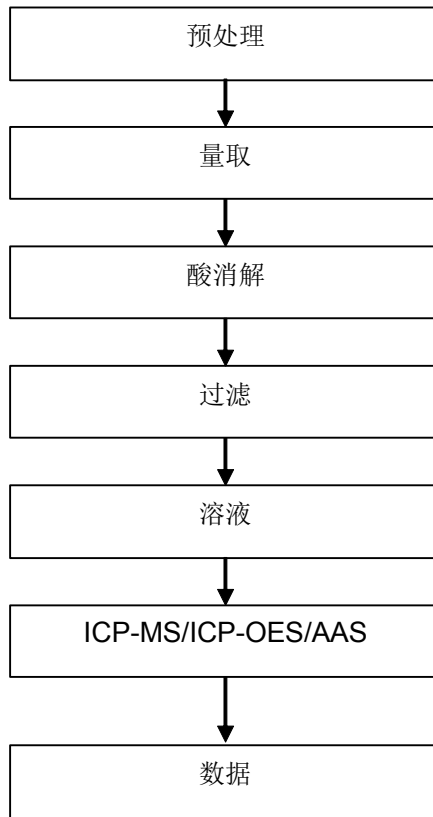
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元素测试流程图

- 1) 分析人员: 金叶/ 宋珂静
- 2) 项目负责人: 徐亮/张小波



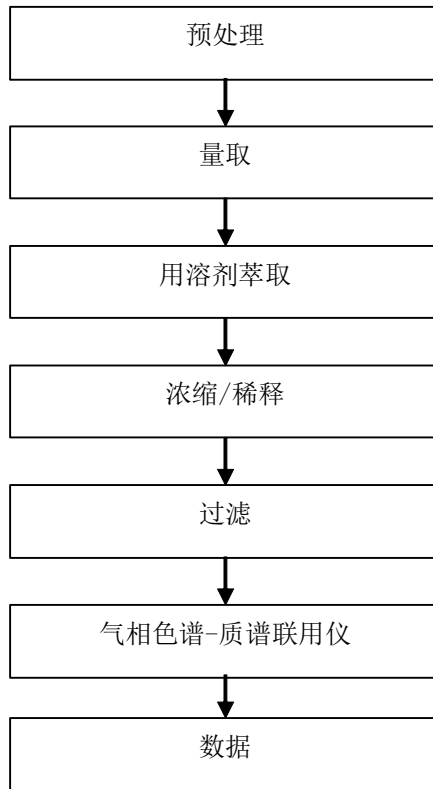
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Benzotriazole 测试流程图

- 1) 分析人员: 方宁
- 2) 项目负责人: 黄婷



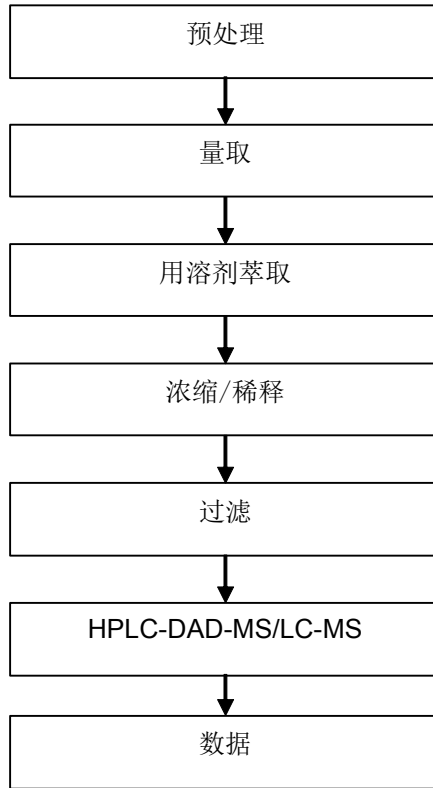
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BPA 测试流程图

- 1) 分析人员: 乔舜国
- 2) 项目负责人: 于日臣



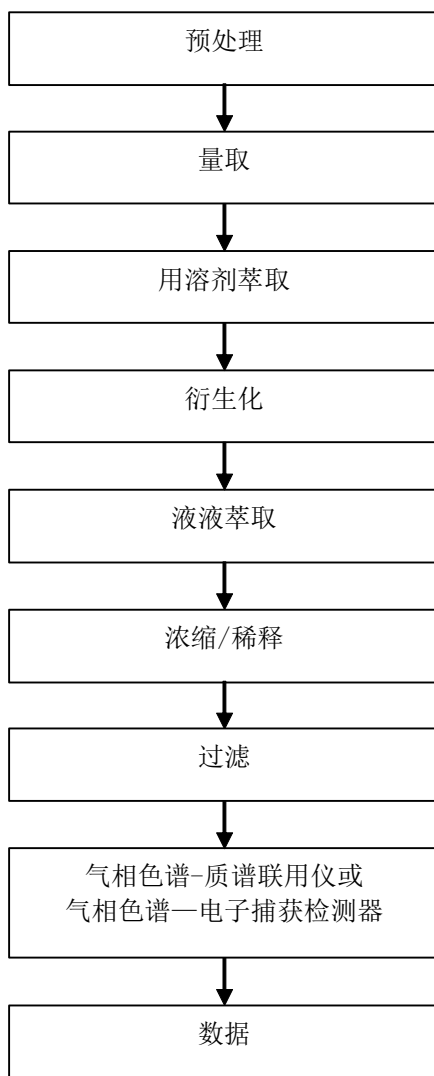
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氯代苯酚测试流程图

- 1) 分析人员: 戴芳鸣
- 2) 项目负责人: 黄婷



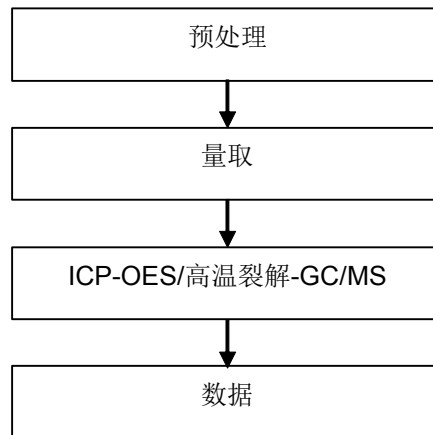
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Red Phosphorus 测试流程图

- 1) 分析人员: 张玲玲/ 胡浩然
- 2) 项目负责人: 陈艳丽



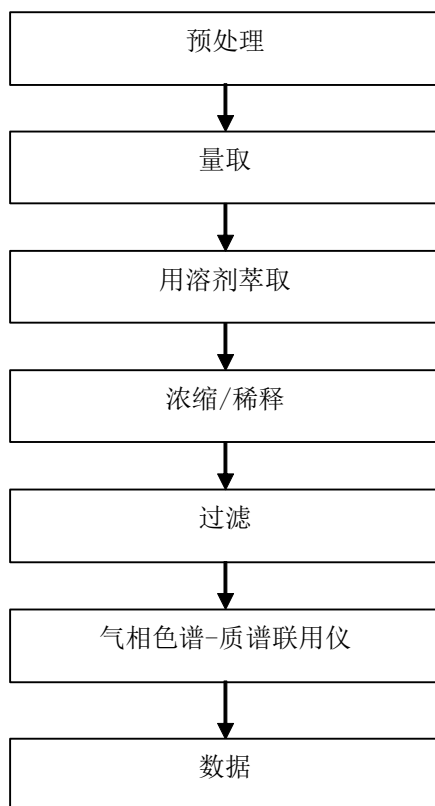
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Musk Xylene / Musk Ketone 测试流程图

- 1) 分析人员: 戴芳鸣
- 2) 项目负责人: 黄婷



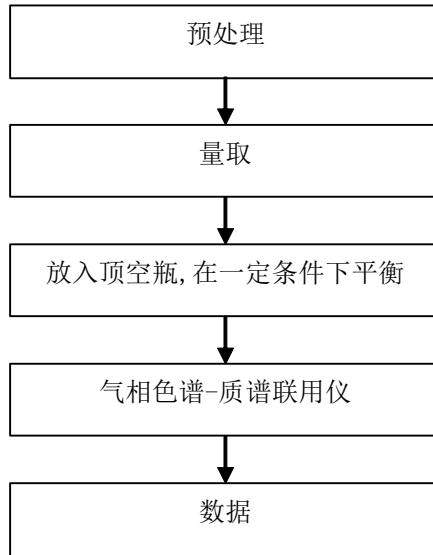
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VOC 测试流程图

- 1) 分析人员: 陈群
- 2) 项目负责人: 李晓茹



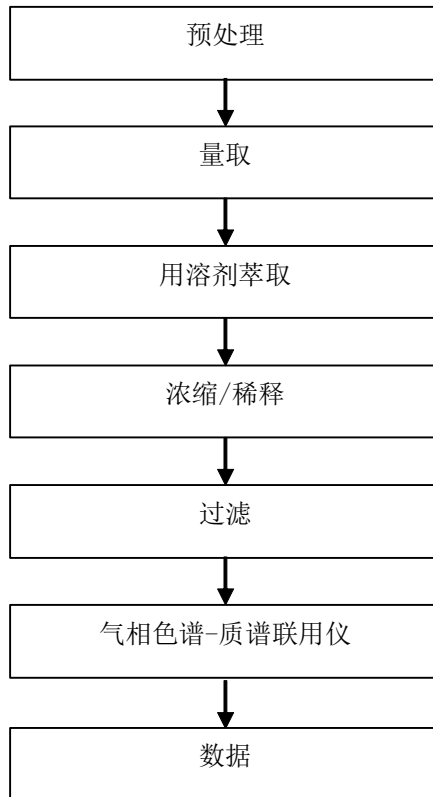
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PAHs 测试流程图

- 1) 分析人员: 方宁
- 2) 项目负责人: 黄婷



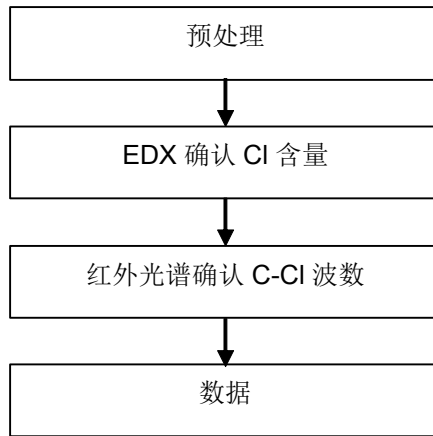
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PVC 测试流程图

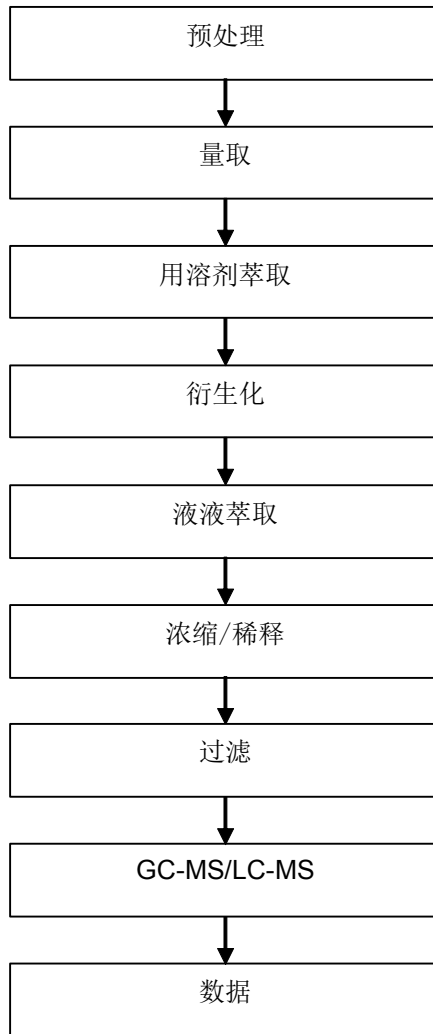
- 1) 分析人员: 张玲玲/胡浩然
- 2) 项目负责人: 陈艳丽



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TBBP-A 测试流程图

- 1) 分析人员: 徐刚
- 2) 项目负责人: 马永存



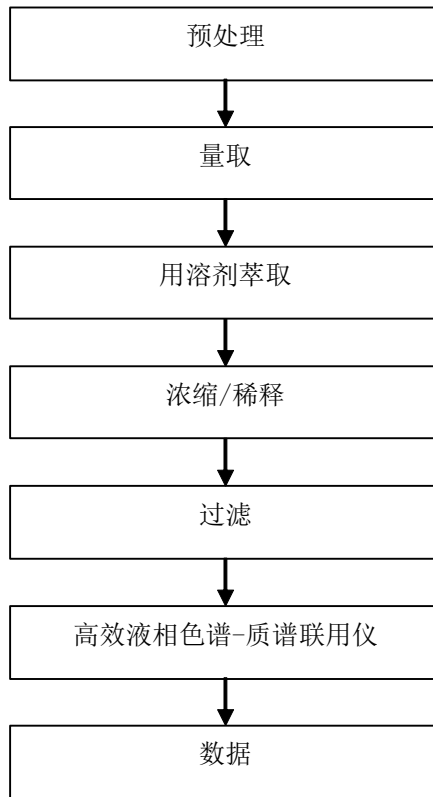
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