

## 测试报告

No. CANEC1625518708

日期: 2017年01月05日 第1页,共18页

昆山汉品电子有限公司  
中国昆山市玉山镇城北五联路698号

以下测试之样品是由申请者所提供及确认: 导电导热铜箔胶带

SGS工作编号: CP16-077339 - GZ  
测试样品信息: XPH00503  
客户参考信息: 见备注  
样品接收日期: 2016年12月26日  
测试周期: 2016年12月26日 - 2017年01月04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

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(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))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司  
授权签名

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批准签署人

备注: 本报告是编号为CANEC1625518707报告的中文版本。



## 测试报告

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日期: 2017年01月05日 第2页,共18页

测试结果:

### 测试样品描述:

| 样品编号 | SGS样品ID          | 描述    |
|------|------------------|-------|
| SN1  | CAN16-255187.002 | 铜色粘性片 |

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:
- (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, 用ICP-OES测定汞的含量。
  - (4)参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量。
  - (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 :2013(111/321/CD), 用GC-MS测定邻苯二甲酸酯的含量。

| 测试项目           | 限值    | 单位    | MDL | 002 |
|----------------|-------|-------|-----|-----|
| 镉 (Cd)         | 100   | mg/kg | 2   | ND  |
| 铅 (Pb)         | 1,000 | mg/kg | 2   | 7   |
| 汞 (Hg)         | 1,000 | mg/kg | 2   | ND  |
| 六价铬(Cr(VI))    | 1,000 | mg/kg | 2   | ND  |
| 多溴联苯之和(PBBs)   | 1,000 | 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) | 1,000 | mg/kg | -   | ND  |
| 一溴二苯醚          | -     | mg/kg | 5   | ND  |



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| 测试项目                  | 限值   | 单位    | MDL | 002 |
|-----------------------|------|-------|-----|-----|
| 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  |
| 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) 最大允许极限值引用自RoHS指令(EU) 2015/863。

## 卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

| 测试项目   | 单位    | MDL | 002 |
|--------|-------|-----|-----|
| 氟 (F)  | mg/kg | 50  | ND  |
| 氯 (Cl) | mg/kg | 50  | ND  |
| 溴 (Br) | mg/kg | 50  | ND  |
| 碘 (I)  | mg/kg | 50  | ND  |

## 四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996方法测定, 采用GC-MS&HPLC-MS进行分析。

| 测试项目   | 单位    | MDL | 002 |
|--------|-------|-----|-----|
| 四溴双酚-A | mg/kg | 10  | ND  |

## 富马酸二甲酯(DMF)

测试方法: SGS 内部方法 (GZTC CHEM-TOP-095), 用GC-MS分析。



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| 测试项目        | 限值  | 单位    | MDL | 002 |
|-------------|-----|-------|-----|-----|
| 富马酸二甲酯(DMF) | 0.1 | mg/kg | 0.1 | ND  |
| 评论          |     |       |     | 符合  |
| 备注:         |     |       |     |     |

备注: 最大允许极限值引用REACH法规(EC) No 1907/2006附录XVII的修正指令(EU) No 412/2012指令(以往由2012/48/EU监管)

### 六溴环十二烷(HBCDD)

测试方法: 参考 IEC 62321:2008, 用 GC-MS 分析。

| 测试项目          | 单位    | MDL | 002 |
|---------------|-------|-----|-----|
| 六溴环十二烷(HBCDD) | mg/kg | 10  | ND  |

### 邻苯二甲酸盐(或酯)

测试方法: 参考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   | 002 |
|------------------------|----------------------------|--------|-------|-----|
| 邻苯二甲酸二丁酯 (DBP)         | 84-74-2                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸丁苄酯 (BBP)         | 85-68-7                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 117-81-7                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二异壬酯 (DINP)       | 28553-12-0 /<br>68515-48-0 | %(w/w) | 0.010 | ND  |
| 邻苯二甲酸二正辛酯 (DNOP)       | 117-84-0                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二异癸酯 (DIDP)       | 26761-40-0 /<br>68515-49-1 | %(w/w) | 0.010 | ND  |
| 邻苯二甲酸二甲酯 (DMP)         | 131-11-3                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二乙酯 (DEP)         | 84-66-2                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二异丁酯 (DIBP)       | 84-69-5                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二壬酯 (DNP)         | 84-76-4                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二异辛酯 (DIOP)       | 27554-26-3                 | %(w/w) | 0.010 | ND  |
| 邻苯二甲酸二丙酯 (DPrP)        | 131-16-8                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二环己酯 (DCHP)       | 84-61-7                    | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二正戊酯 (DnPP)       | 131-18-0                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二苄酯 (DBzP)        | 523-31-9                   | %(w/w) | 0.003 | ND  |
| 邻苯二甲酸二苯酯 (DPhP)        | 84-62-8                    | %(w/w) | 0.003 | ND  |



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| 测试项目             | CAS NO. | 单位     | MDL   | 002 |
|------------------|---------|--------|-------|-----|
| 邻苯二甲酸二正己酯 (DnHP) | 84-75-3 | %(w/w) | 0.003 | ND  |

备注:

- (1) DBP, BBP, DEHP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51条 (前身为2005/84/EC) 的要求:
  - i) 不允许DBP, BBP, DEHP质量浓度高于0.1%的可塑性物料用于玩具和儿童护理品.
  - ii) 当玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009
- (2) DINP, DNOP, DIDP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第52条 (前身为2005/84/EC) 的要求:
  - i) 不允许DINP, DNOP, DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品.
  - ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DINP, DNOP, DIDP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009.

### 全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)

测试方法: 参考CEN/TS15968:2010方法, 用 LC-MS分析。

| 测试项目                | CAS NO.  | 单位    | MDL | 002 |
|---------------------|----------|-------|-----|-----|
| 全氟辛酸(PFOA)          | 335-67-1 | mg/kg | 10  | ND  |
| 全氟辛烷磺酸及其衍生物 (PFOS)^ | -        | mg/kg | 10  | ND  |

备注:

- (1) ^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSE)、N-乙基全氟辛烷磺酰胺(EtFOSE)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

### 多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK测试, 采用 GC-MS进行分析。

| 测试项目          | CAS NO.  | 单位    | MDL | 002 |
|---------------|----------|-------|-----|-----|
| 萘 (NAP)       | 91-20-3  | mg/kg | 0.1 | ND  |
| 蒽(ANY)        | 208-96-8 | mg/kg | 0.1 | ND  |
| 蒽(萘嵌戊烷) (ANA) | 83-32-9  | mg/kg | 0.1 | ND  |
| 芴 (FLU)       | 86-73-7  | mg/kg | 0.1 | ND  |
| 菲 (PHE)       | 85-01-8  | mg/kg | 0.1 | ND  |
| 蒽 (ANT)       | 120-12-7 | mg/kg | 0.1 | ND  |



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| 测试项目  | CAS NO.  | 单位    | MDL | 002 |
|---|----------|-------|-----|-----|
| 荧蒽 (FLT)  | 206-44-0 | mg/kg | 0.1 | ND  |
| 芘 (PYR)   | 129-00-0 | mg/kg | 0.1 | ND  |
| 苯并(a)蒽 (BaA)  | 56-55-3  | mg/kg | 0.1 | ND  |
| 屈 (CHR)   | 218-01-9 | 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  |
| 苯并(k)荧蒽 (BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| 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  |
| 茚并(1,2,3-c,d)芘 (IPY)  | 193-39-5 | 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)芘(二苯并(a,h)芘) (BPE)   | 191-24-2 | mg/kg | 0.1 | ND  |
| 7项多环芳香烃总和[苊烯(ANY), 苊(萘嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)] |          | mg/kg | -   | ND  |
| 18项多环芳香烃总和  |          | mg/kg | -   | ND  |



**AfPS (德国产品安全委员会):GS 认证对多环芳香烃的要求**

| 参数   | 1 类                                    | 2 类   |              | 3 类  |              |
|--|--|---|--------------|--|--------------|
|  | 设计意图为放入口中的材料或者玩具上与皮肤接触的材料 (接触时间大于30秒). | 未在 1 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料 (长时间接触皮肤)或频繁接触皮肤. |              | 未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤) |              |
|  |  | 2009/48/EC 中适用的玩具                                     | 产品安全法涉及的其他产品 | 2009/48/EC中适用的玩具                               | 产品安全法涉及的其他产品 |
| 苯并(a)芘 (BaP) mg/kg   | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(e)芘 (BeP) mg/kg   | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(a)蒽 (BaA) mg/kg   | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(b)荧蒽 (BbF) mg/kg  | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(j)荧蒽 (BjF) mg/kg  | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(k)荧蒽mg/kg   | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 屈 (CHR) mg/kg  | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 二苯并(a,h)蒽(DBA)mg/kg  | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 苯并(g,h,i)花(二苯嵌苯) (BPE)n mg/kg  | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 茚并(1,2,3-c,d)芘 (IPY) mg/kg   | < 0.2                                  | < 0.2   | < 0.5        | < 0.5  | < 1          |
| 萘烯(ANY), 萘(萘嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg | < 1 (总和)                               | < 5 (总和)  | < 10 (总和)    | < 20 (总和)                                      | < 50 (总和)    |
| 萘 (NAP) mg/kg  | < 1                                    | < 2   |              | < 10   |              |
| 18 PAH之和   | <1                                     | < 5   | < 10         | < 20   | < 50         |



备注:

XPH00250, XPH00350, XPH00500, XPH00750, XPH00800, XPH00950, XPH01000, XPH01100, XPH01500,  
 XPH01700, XPH02500, XPH0\*\*\*0, XPH0M350, XPH0M500, XPH0M750, XPH0M950, XPH0MA00, XPH0MA50,  
 XPH0M\*\*0, XPH0P01, XPH0E500, XPH0E\*\*0, XPH0MK00, XPH0E152, XPH0E182, XPH0E352, XPH0E502,  
 XPH0E752, XPH0EC2, XPH0E\*\*2, XPH0EC02, XPH0EC\*2, XPH0T352, XPH0T502, XPH0T\*\*2, XPH0TV02,  
 XPH0TV03, XPH0TS02, XPH0TD02, XPH0T0M, XPH0TEM, XPH0THM, XPH0T\*M, XPH0T353, XPH0T403,  
 XPH0T503, XPH0TS03, XPH0TD03, XPH0TS\*2, XPH0TD\*2, XPH0TS\*3, XPH0TD\*3, XPH0TH2, XPH0T\*2,  
 XPH0Y502, XPH0Y\*\*2, XPH0YA2, XPH0Y\*2, XPH0YM2, XPH00182, XPH00252, XPH00352, XPH00502,  
 XPH00752, XPH01002, XPH01502, XPH0\*\*\*2, XPH0MA2, XPH0M\*2, XPH0MA5, XPH0MA8, XPH0MA9,  
 XPH0B\*3, XPH0\*\*3, XPH0A0A, XPH0A\*A, XPH0A04, XPH0A\*4, XPH0B\*4, XPH0\*\*4, XPH0A05, XPH0A\*5,  
 XPH0A03, XPH00250\*\*, XPH00350\*\*, XPH00500\*\*, XPH00750\*\*, XPH00800\*\*, XPH00950\*\*, XPH01000\*\*,  
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XP0M106\*\*, XP0M186\*\*, XP0M\*\*6\*\*, XP0MA7\*\*, XP0M\*7\*\*, XP0M\*8\*\*, XP0M\*9\*\*, XP0M09\*\*,  
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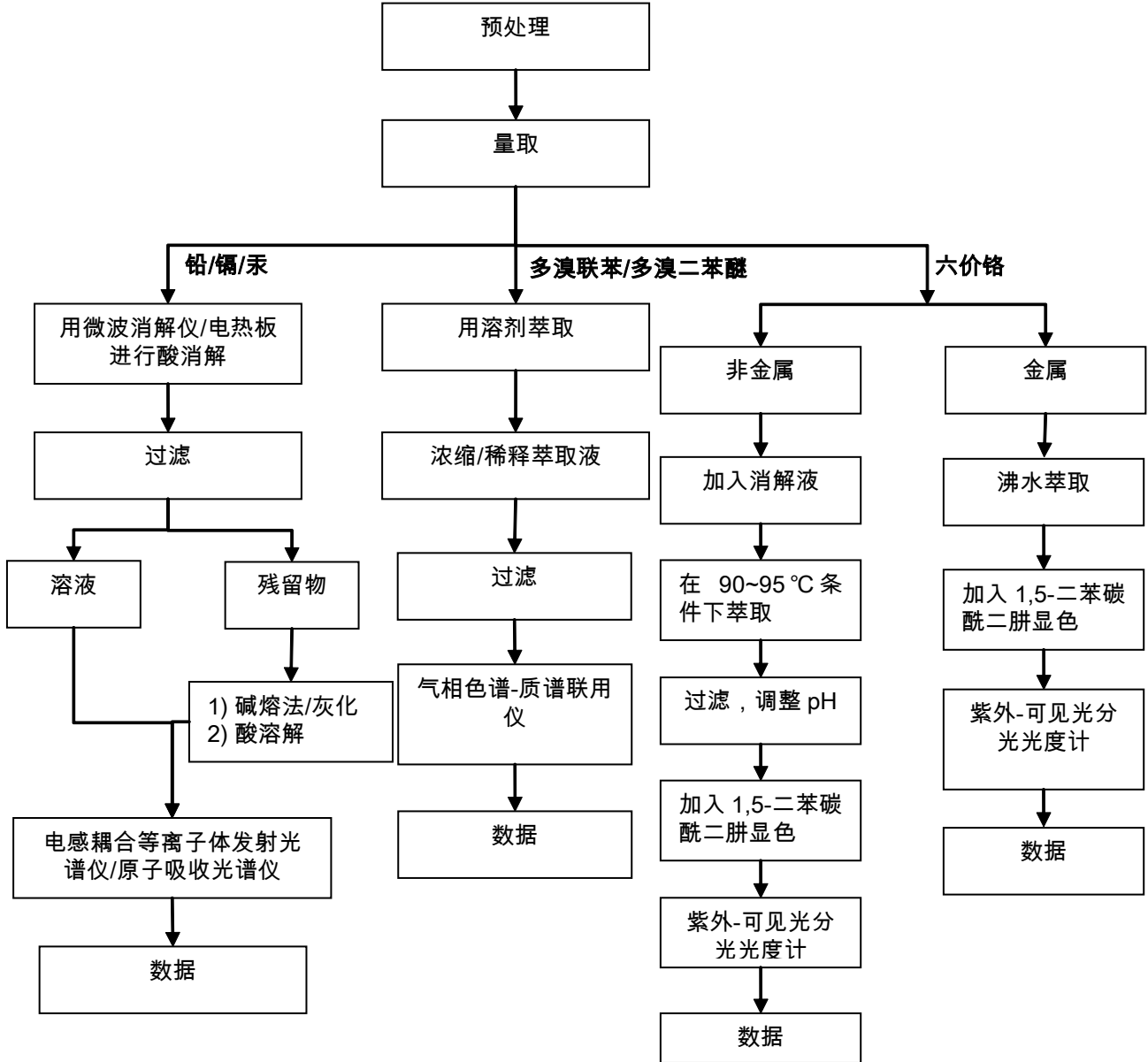
备注:“\*”表示 0~9或A~Z中的任意一个



附件

## Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 测试流程图

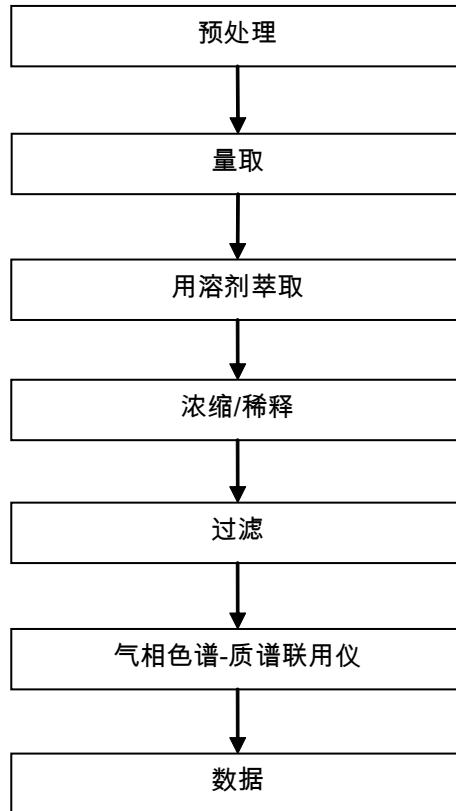
- 1) 分析人员: 张梓路 / 胡香云
- 2) 项目负责人: 汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



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### Phthalates 测试流程图

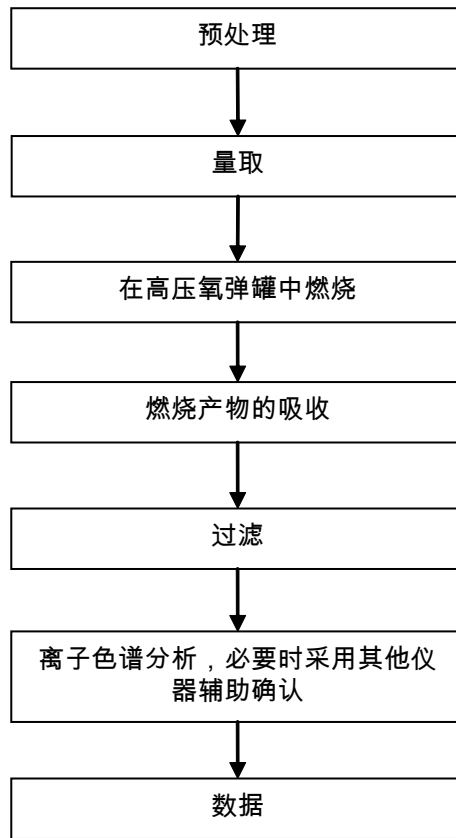
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



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## Halogen 测试流程图

- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



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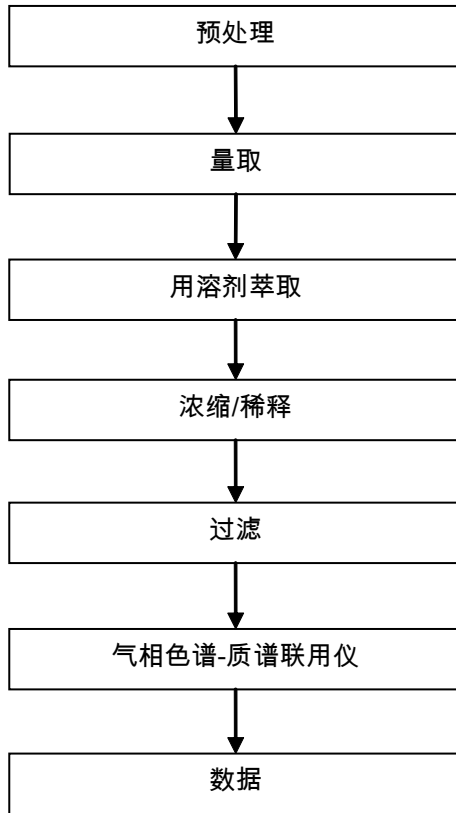
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HBCDD 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



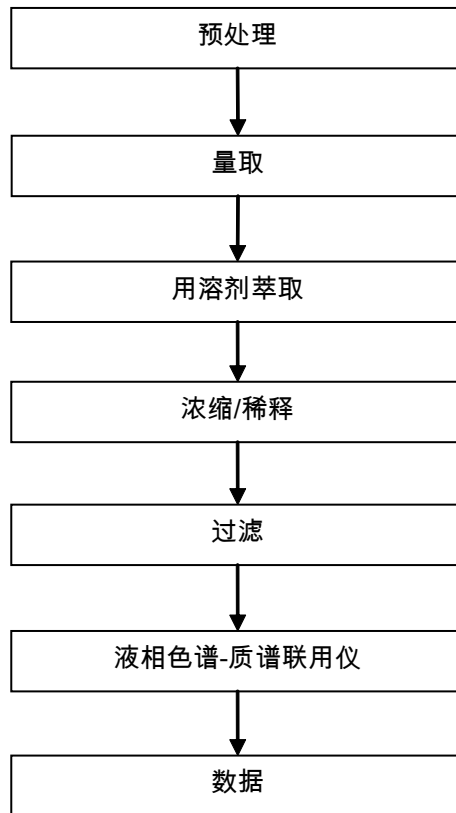
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PFOA / PFOS 测试流程图

- 1) 分析人员 : 王志红
- 2) 项目负责人 : 刘琼



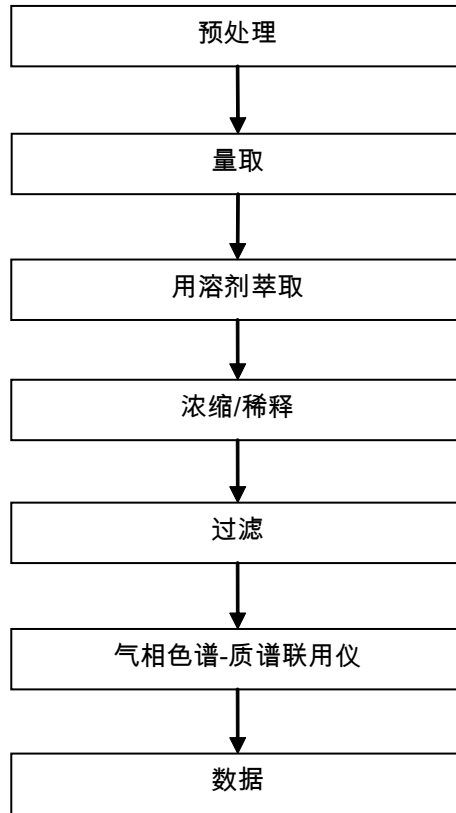
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### PAHs 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



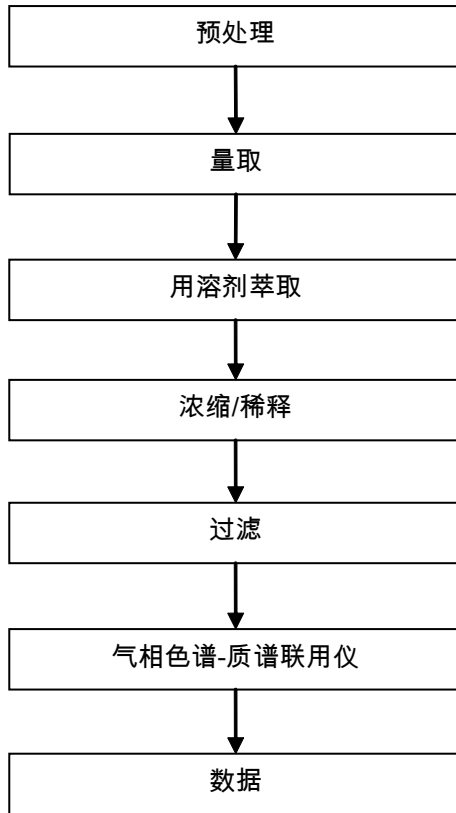
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Dimethyl Fumarate 测试流程图

- 1) 分析人员：胡香云
- 2) 项目负责人：刘琼

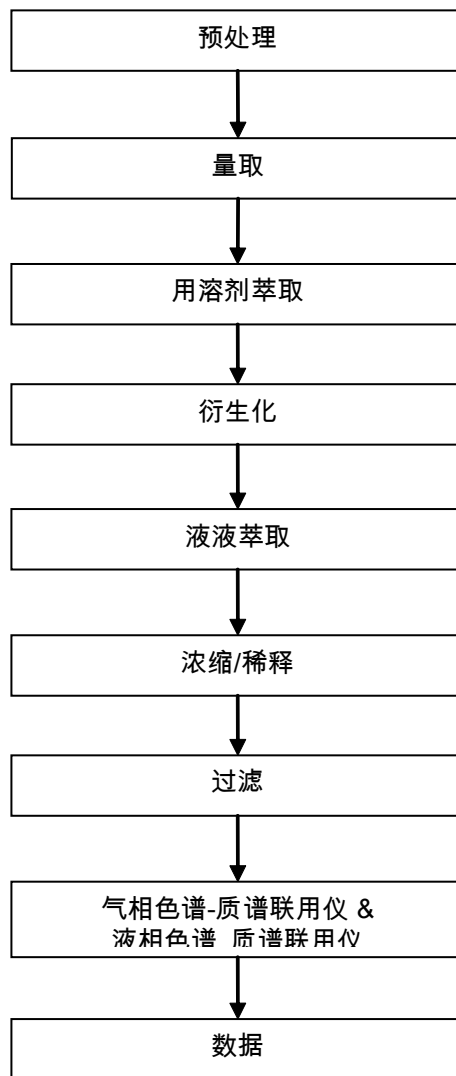




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TBBP-A 测试流程图

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- 2) 项目负责人：刘琼



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