



# 检测报告

## Test Report

报告编号 A2240415566101002E  
Report No. A2240415566101002E

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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          | Mold Compound                            |
| 样品型号                 | MG 20KF(KL 1000-KF, KL 2500-KF)MG 20KF-S |
| Part No.             | MG 20KF(KL 1000-KF, KL 2500-KF)MG 20KF-S |
| 生产日期                 | 2024 年 07 月                              |
| Date of manufacture  | 2024.7                                   |
| 样品接收日期               | 2024.07.12                               |
| Sample Received Date | Jul. 12, 2024                            |
| 样品检测日期               | 2024.07.12-2024.07.20                    |
| Testing Period       | Jul. 12, 2024 to Jul. 20, 2024           |

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

2024.07.20

No. R475311139

上海市闵行区万芳路 1351 号

No.1351, Wanfang Road, Minhang District, Shanghai, China

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

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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, 多环芳烃(PAHs), 砷(As), 铍(Be), 锑(Sb), 磷(P), 六溴环十二烷(HBCDD), 氟(F), 氯(Cl), 溴(Br), 碘(I), 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, Polycyclic Aromatic Hydrocarbons (PAHs), Arsenic(As), Beryllium(Be), Antimony(Sb), Phosphorus(P), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), 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             | 依据标准/指令                                                  | 结果      |
|------------------|----------------------------------------------------------|---------|
| Tested Sample    | According to standard/directive                          | Result  |
| 提交样品             | 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863 RoHS Directive | 符合 PASS |
| Submitted Sample | 2011/65/EU with amendment (EU) 2015/863                  |         |

\*\*\*\*\*

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<br>Tested Item(s)                          | 测试方法<br>Test Method                                                                                                                    | 测试仪器<br>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<br>总铬含量<br>IEC 62321-7-2:2017 and/or determination of<br>Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES                |
| 多溴联苯 Polybrominated Biphenyls<br>(PBBs)         | IEC 62321-6:2015                                                                                                                       | GC-MS                         |
| 多溴二苯醚 Polybrominated Diphenyl<br>Ethers (PBDEs) | IEC 62321-6:2015                                                                                                                       | GC-MS                         |
| 邻苯二甲酸酯 Phthalates (DBP, BBP,<br>DEHP, DIBP)     | IEC 62321-8:2017                                                                                                                       | GC-MS                         |
| 多环芳烃 Polycyclic Aromatic<br>Hydrocarbons (PAHs) | AfPS GS 2019:01 PAK                                                                                                                    | GC-MS                         |
| 砷 Arsenic(As)                                   | 参考 US EPA 3052:1996 & US EPA<br>6010D:2018*<br>Refer to US EPA 3052:1996 & US EPA<br>6010D:2018*                                       | ICP-OES                       |
| 铍 Beryllium(Be)                                 | 参考 US EPA 3052:1996 & US EPA<br>6010D:2018*<br>Refer to US EPA 3052:1996 & US EPA<br>6010D:2018*                                       | ICP-OES                       |
| 锑 Antimony(Sb)                                  | 参考 US EPA 3052:1996 & US EPA<br>6010D:2018*<br>Refer to US EPA 3052:1996 & US EPA<br>6010D:2018*                                       | ICP-OES                       |
| 磷 Phosphorus(P)                                 | 参考 US EPA 3052:1996 & US EPA<br>6010D:2018*<br>Refer to US EPA 3052:1996 & US EPA<br>6010D:2018*                                       | ICP-OES                       |
| 六溴环十二烷<br>Hexabromocyclododecane (HBCDD)        | IEC 62321-9:2021                                                                                                                       | GC-MS                         |
| 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                            |

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| 测试项目<br>Tested Item(s)                            | 测试方法<br>Test Method                                                                                                                                  | 测试仪器<br>Measured Equipment(s)  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs) | 参考 US EPA 3550C:2007 &<br>US EPA 8270E:2018*<br>Refer to US EPA 3550C:2007 &<br>US EPA 8270E:2018*                                                   | GC-MS(NCI)                     |
| 四溴双酚 A Tetrabromobisphenol A (TBBP-A)             | 参考 US EPA 3550C:2007 & US EPA 8321B:2007*<br>Refer to US EPA 3550C:2007 &<br>US EPA 8321B:2007*                                                      | LC-MS-MS/LC-MS                 |
| 邻苯二甲酸酯 Phthalates                                 | IEC 62321-8:2017                                                                                                                                     | GC-MS                          |
| 聚氯乙烯 Polyvinyl Chloride (PVC)                     | 参考 JY/T 002-1996*<br>Refer to JY/T 002-1996*                                                                                                         | 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                 |
| 红磷 Red phosphorus*                                | 参考 GB/T 6040-2002, GB/T 9722-2006,<br>GB/T 17359-2012, EPA 6010D:2014<br>Refer to GB/T 6040-2002, GB/T 9722-2006,<br>GB/T 17359-2012, EPA 6010D:2014 | ICP-OES, PY-GC-MS,<br>FTIR, EM |

## 检测结果 Test Result(s)

| 测试项目 Tested Item(s)                                 | 结果 Result | 方法检出限<br>MDL | 限值<br>Limit |
|-----------------------------------------------------|-----------|--------------|-------------|
|                                                     | 002       |              |             |
| 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))<br>CAS#:18540-29-9 | N.D.      | 8 mg/kg      | 1000 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   |
|--------------------------------------------|-----------|-----------|------------|
|                                            | 002       |           |            |
| 多溴联苯 Polybrominated Biphenyls (PBBs)*1     |           |           |            |
| 一溴联苯 Monobromobiphenyl<br>CAS#:92-66-0     | N.D.      | 5 mg/kg   | 1000 mg/kg |
| 二溴联苯 Dibromobiphenyl<br>CAS#:92-86-4       | N.D.      | 5 mg/kg   |            |
| 三溴联苯 Tribromobiphenyl<br>CAS#:115245-07-3  | N.D.      | 5 mg/kg   |            |
| 四溴联苯 Tetrabromobiphenyl<br>CAS#:60044-24-8 | N.D.      | 5 mg/kg   |            |
| 五溴联苯 Pentabromobiphenyl<br>CAS#:59080-39-6 | N.D.      | 5 mg/kg   |            |
| 六溴联苯 Hexabromobiphenyl<br>CAS#:60044-26-0  | N.D.      | 5 mg/kg   |            |
| 七溴联苯 Heptabromobiphenyl<br>CAS#:67733-52-2 | N.D.      | 5 mg/kg   |            |
| 八溴联苯 Octabromobiphenyl<br>CAS#:119264-60-7 | N.D.      | 5 mg/kg   |            |
| 九溴联苯 Nonabromobiphenyl<br>CAS#:69278-62-2  | N.D.      | 5 mg/kg   |            |
| 十溴联苯 Decabromobiphenyl<br>CAS#:13654-09-6  | N.D.      | 5 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   |
|----------------------------------------------------|-----------|-----------|------------|
|                                                    | 002       |           |            |
| 多溴二苯醚 PolybrominatedDiphenyl Ethers (PBDEs) *1     |           |           |            |
| 一溴二苯醚 Monobromodiphenyl ether<br>CAS#:101-55-3     | N.D.      | 5 mg/kg   | 1000 mg/kg |
| 二溴二苯醚 Dibromodiphenyl ether<br>CAS#:2050-47-7      | N.D.      | 5 mg/kg   |            |
| 三溴二苯醚 Tribromodiphenyl ether<br>CAS#:147217-78-5   | N.D.      | 5 mg/kg   |            |
| 四溴二苯醚 Tetrabromodiphenyl ether<br>CAS#:5436-43-1   | N.D.      | 5 mg/kg   |            |
| 五溴二苯醚 Pentabromodiphenyl ether<br>CAS#:60348-60-9  | N.D.      | 5 mg/kg   |            |
| 六溴二苯醚 Hexabromodiphenyl ether<br>CAS#:68631-49-2   | N.D.      | 5 mg/kg   |            |
| 七溴二苯醚 Heptabromodiphenyl ether<br>CAS#:207122-16-5 | N.D.      | 5 mg/kg   |            |
| 八溴二苯醚 Octabromodiphenyl ether<br>CAS#:337513-72-1  | N.D.      | 5 mg/kg   |            |
| 九溴二苯醚 Nonabromodiphenyl ether<br>CAS#:63387-28-0   | N.D.      | 5 mg/kg   |            |
| 十溴二苯醚 Decabromodiphenyl ether<br>CAS#:1163-19-5    | N.D.      | 5 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   |
|-----------------------------------------------------------------|-----------|-----------|------------|
|                                                                 | 002       |           |            |
| 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<br>Tested Item(s)                        | 结果 Result | 方法检出限<br>MDL |
|-----------------------------------------------|-----------|--------------|
|                                               | 002       |              |
| 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)  |           |              |
| 萘 Naphthalene<br>CAS#:91-20-3                 | N.D.      | 0.2 mg/kg    |
| 菲 Phenanthrene<br>CAS#:85-01-8                | N.D.      | 0.2 mg/kg    |
| 蒽 Anthracene<br>CAS#:120-12-7                 | N.D.      | 0.2 mg/kg    |
| 荧蒽 Fluoranthene<br>CAS#:206-44-0              | N.D.      | 0.2 mg/kg    |
| 芘 Pyrene<br>CAS#:129-00-0                     | N.D.      | 0.2 mg/kg    |
| 屈 Chrysene<br>CAS#:218-01-9                   | N.D.      | 0.2 mg/kg    |
| 苯并(a)蒽 Benzo(a)anthracene<br>CAS#:56-55-3     | N.D.      | 0.2 mg/kg    |
| 苯并(b)荧蒽 Benzo(b)fluoranthene<br>CAS#:205-99-2 | N.D.      | 0.2 mg/kg    |
| 苯并(k)荧蒽 Benzo(k)fluoranthene<br>CAS#:207-08-9 | N.D.      | 0.2 mg/kg    |
| 苯并(j)荧蒽 Benzo(j)fluoranthene<br>CAS#:205-82-3 | N.D.      | 0.2 mg/kg    |

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| 测试项目<br>Tested Item(s)                                                | 结果 Result | 方法检出限<br>MDL |
|-----------------------------------------------------------------------|-----------|--------------|
|                                                                       | 002       |              |
| 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)                          |           |              |
| 苯并(a)芘 Benzo(a)pyrene<br>CAS#:50-32-8                                 | N.D.      | 0.2 mg/kg    |
| 苯并(e)芘 Benzo(e)pyrene<br>CAS#:192-97-2                                | N.D.      | 0.2 mg/kg    |
| 二苯并(a,h)蒽<br>Dibenzo(a,h)anthracene<br>CAS#:53-70-3                   | N.D.      | 0.2 mg/kg    |
| 苯并(g,h,i)芘 Benzo(g,h,i)perylene<br>CAS#:191-24-2                      | N.D.      | 0.2 mg/kg    |
| 茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene<br>CAS#:193-39-5                | N.D.      | 0.2 mg/kg    |
| 菲,蒽,荧蒽,芘总量 Sum<br>(Phenanthrene, Anthracene,<br>Fluoranthene, Pyrene) | N.D.      | /            |
| 15 PAHs 总量 Sum 15 PAHs                                                | N.D.      | /            |

| 测试项目 Tested Item(s)            | 结果 Result | 方法检出限 MDL |
|--------------------------------|-----------|-----------|
|                                | 002       |           |
| 砷 Arsenic (As) CAS#: 7440-38-2 | N.D.      | 10 mg/kg  |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---------------------|-----------|-----------|
|                     | 002       |           |
| 铍 Beryllium (Be)    | N.D.      | 10 mg/kg  |

| 测试项目 Tested Item(s) | 结果 Result  | 方法检出限 MDL |
|---------------------|------------|-----------|
|                     | 002        |           |
| 锑 Antimony (Sb)     | 7202 mg/kg | 10 mg/kg  |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---------------------|-----------|-----------|
|                     | 002       |           |
| 磷 Phosphorus (P)    | 25 mg/kg  | 20 mg/kg  |

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| 测试项目 Tested Item(s)                                                                                                     | 结果 Result | 方法检出限 MDL |
|-------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
|                                                                                                                         | 002       |           |
| 六溴环十二烷<br>Hexabromocyclododecane (HBCDD)<br>CAS#: 25637-99-4; 3194-55-6;<br>(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 |
|----------------------------------|------------|-----------|
|                                  | 002        |           |
| 氟 Fluorine (F) CAS#: 14762-94-8  | N.D.       | 10 mg/kg  |
| 氯 Chlorine (Cl) CAS#: 22537-15-1 | 106 mg/kg  | 10 mg/kg  |
| 溴 Bromine (Br) CAS#: 10097-32-2  | 3176 mg/kg | 10 mg/kg  |
| 碘 Iodine (I) CAS#: 14362-44-8    | N.D.       | 10 mg/kg  |

| 测试项目 Tested Item(s)                                                      | 结果 Result | 方法检出限 MDL |
|--------------------------------------------------------------------------|-----------|-----------|
|                                                                          | 002       |           |
| 中链氯化石蜡 Middle Chain<br>Chlorinated Paraffins (MCCPs) CAS#:<br>85535-85-9 | N.D.      | 100 mg/kg |

| 测试项目 Tested Item(s)                                   | 结果 Result | 方法检出限 MDL |
|-------------------------------------------------------|-----------|-----------|
|                                                       | 002       |           |
| 四溴双酚 A Tetrabromobisphenol A<br>(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 |
|----------------------------------------------------------|-----------|-----------|
|                                                          | 002       |           |
| 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  |
| *邻苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3 | 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 |
|--------------------------------------------------------------------|-----------|-----------|
|                                                                    | 002       |           |
| 邻苯二甲酸酯 Phthalates                                                  |           |           |
| *邻苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3                   | N.D.      | 50 mg/kg  |
| 邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7               | 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(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7    | N.D.      | 50 mg/kg  |
| 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  |
| 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5                 | 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  |
| *邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2                     | N.D.      | 50 mg/kg  |
| *己二酸二异壬酯 Diisononyl adipate (DINA) CAS#:33703-08-1                 | N.D.      | 50 mg/kg  |
| *邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP) CAS#:84-61-7              | 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  |
| *邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8                  | 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  |

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报告编号A2240415566101002E  
Report No. A2240415566101002E

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| 测试项目 Tested Item(s)                                                    | 结果 Result | 方法检出限 MDL |
|------------------------------------------------------------------------|-----------|-----------|
|                                                                        | 002       |           |
| 邻苯二甲酸酯 Phthalates                                                      |           |           |
| *邻苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP)<br>CAS#:117-82-8 | N.D.      | 50 mg/kg  |

| 测试项目 Tested Item(s)                      | 结果 Result   | 方法检出限 MDL |
|------------------------------------------|-------------|-----------|
|                                          | 002         |           |
| 聚氯乙烯 Polyvinyl Chloride (PVC)<br>CAS#: / | 阴性 Negative | /         |

| 测试项目 Tested Item(s)                              | 结果 Result | 方法检出限 MDL   |
|--------------------------------------------------|-----------|-------------|
|                                                  | 002       |             |
| 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   |
|---------------------------------------------------------|-----------|-------------|
|                                                         | 002       |             |
| 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 |
|---------------------------|-----------|-----------|
|                           | 002       |           |
| *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   | 002           | 黑色固体<br>Black solid |

**备注:** 对于检测铅, 镉, 汞, 砷, 铍, 锑, 磷之样品已消解完全。

-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)

客户样品多信息说明: 供给不同客户, 会有不同的型号/名称叫法。

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

-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)

Information Statement: Different Part No. or sample name with different buyer.

**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.

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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 间接触）2009/48/EC 定义的玩具材料或供 3 岁以下儿童使用的 产品<br>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<br>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<br>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）<br>Use by children (< 14 years) (include both active and passive direct contact)                                                                                                                | 其他类 产品<br>Other consumer products | 供儿童（< 14 岁）使用的产品（包括主动和被 动直接接 触）<br>Use by children (< 14 years) (include both active and passive direct contact)                                                                                | 其他类 产品<br>Other consumer products |
| 苯并[a]芘<br>Benzo[a]pyrene<br>CAS#:50-32-8         | < 0.2                                                                                                                                                                                                                                                                                                                  | < 0.2                                                                                                                                                                                                                           | < 0.5                             | < 0.5                                                                                                                                                                                           | < 1                               |
| 苯并[e]芘<br>Benzo[e]pyrene<br>CAS#:192-97-2        | < 0.2                                                                                                                                                                                                                                                                                                                  | < 0.2                                                                                                                                                                                                                           | < 0.5                             | < 0.5                                                                                                                                                                                           | < 1                               |
| 苯并[a]蒽<br>Benzo[a]anthracene<br>CAS#:56-55-3     | < 0.2                                                                                                                                                                                                                                                                                                                  | < 0.2                                                                                                                                                                                                                           | < 0.5                             | < 0.5                                                                                                                                                                                           | < 1                               |
| 苯并[b]荧蒽<br>Benzo[b]fluoranthene<br>CAS#:205-99-2 | < 0.2                                                                                                                                                                                                                                                                                                                  | < 0.2                                                                                                                                                                                                                           | < 0.5                             | < 0.5                                                                                                                                                                                           | < 1                               |
| 苯并[j]荧蒽<br>Benzo[j]fluoranthene<br>CAS#:205-82-3 | < 0.2                                                                                                                                                                                                                                                                                                                  | < 0.2                                                                                                                                                                                                                           | < 0.5                             | < 0.5                                                                                                                                                                                           | < 1                               |

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

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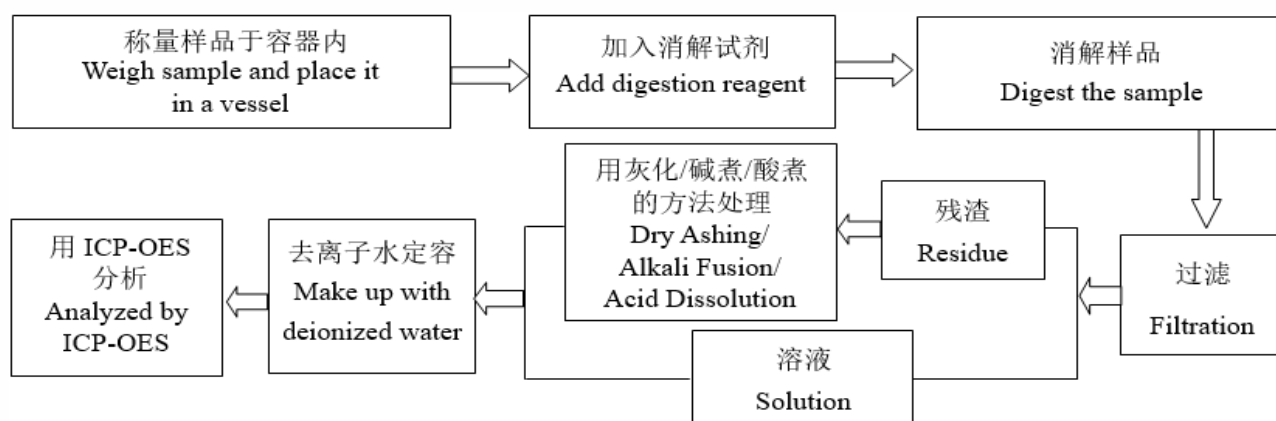
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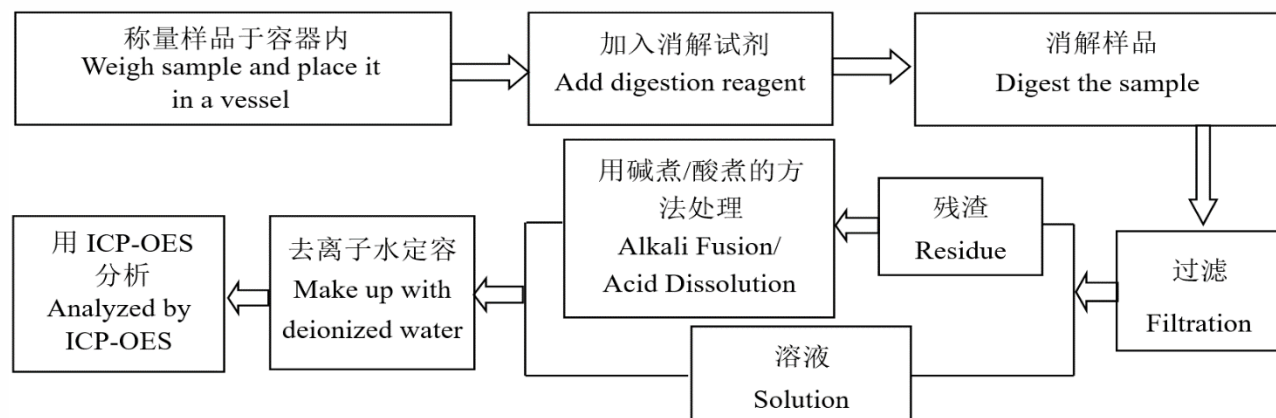
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### 检测流程 Test Process

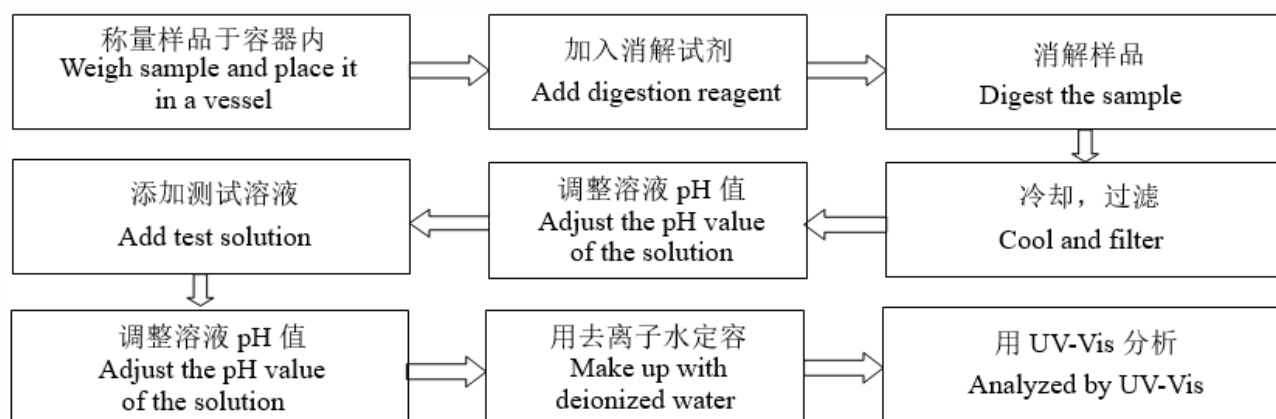
#### 1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium(Cr)



#### 2. 汞 Mercury (Hg)



#### 3. 六价铬 Hexavalent Chromium (Cr(VI))

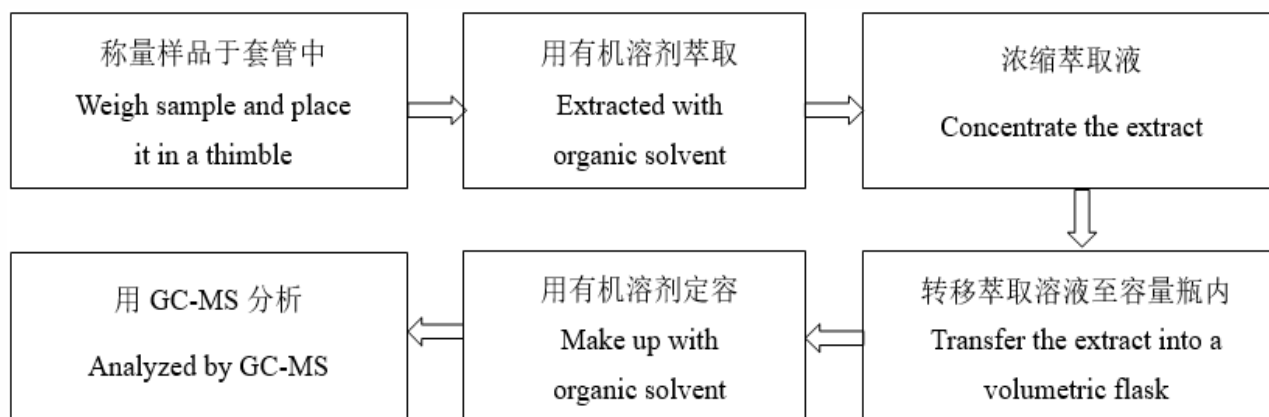


# 检测报告 Test Report

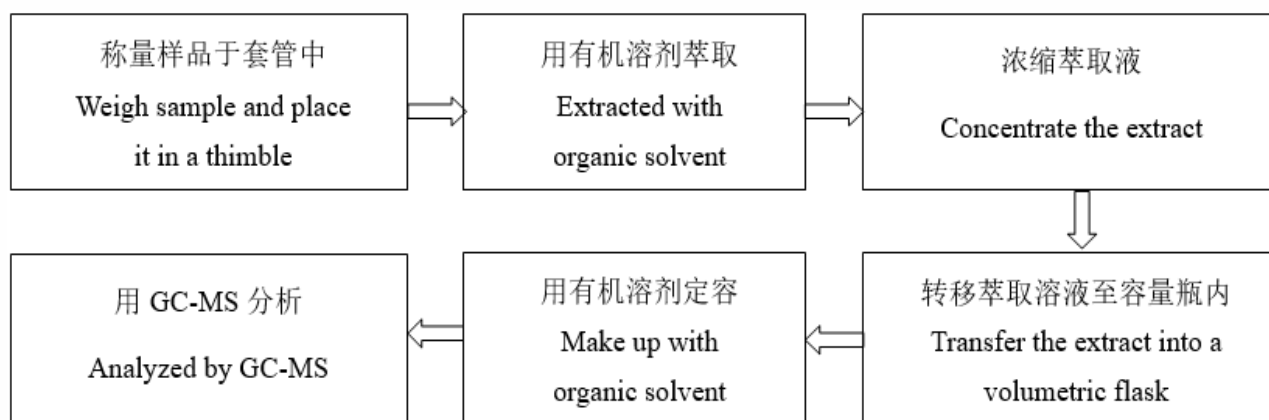
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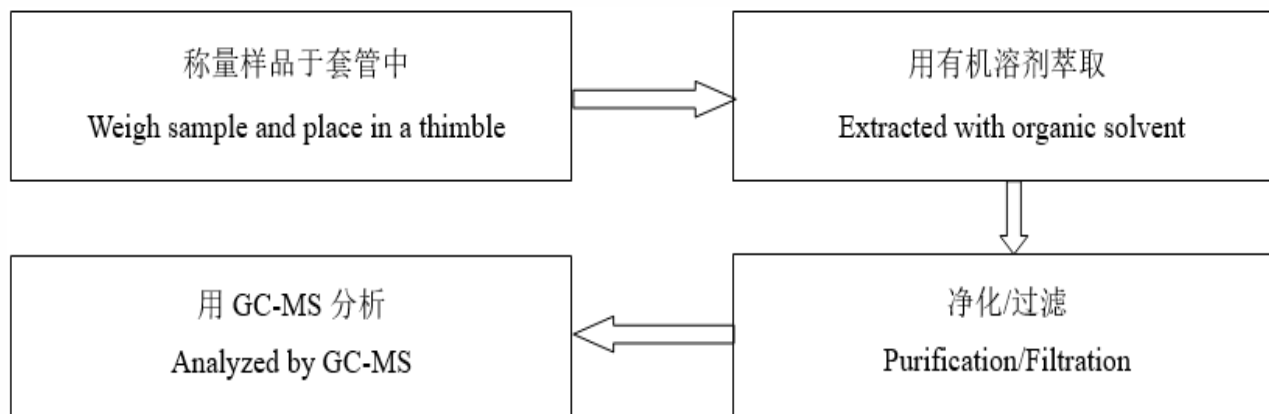
## 4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



## 5. 邻苯二甲酸酯 Phthalates



## 6. 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)

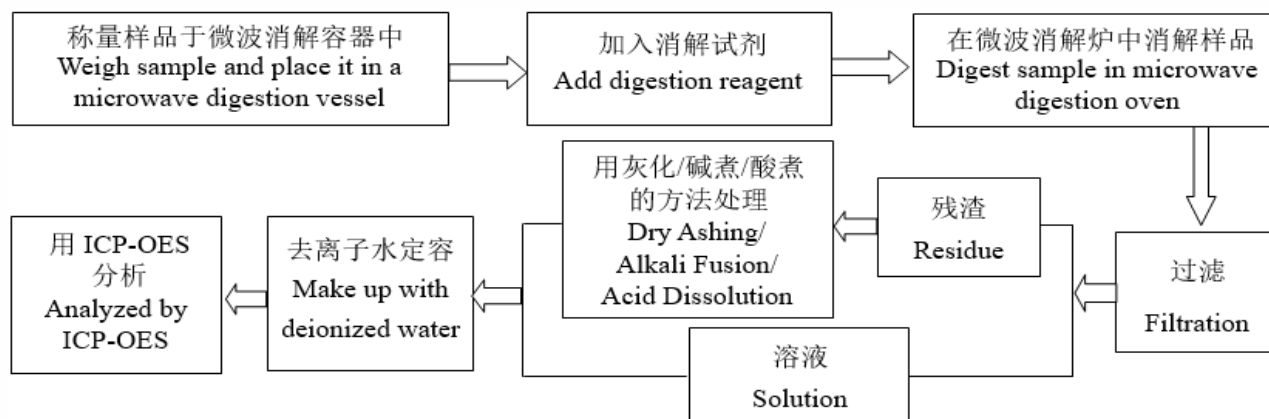


# 检测报告 Test Report

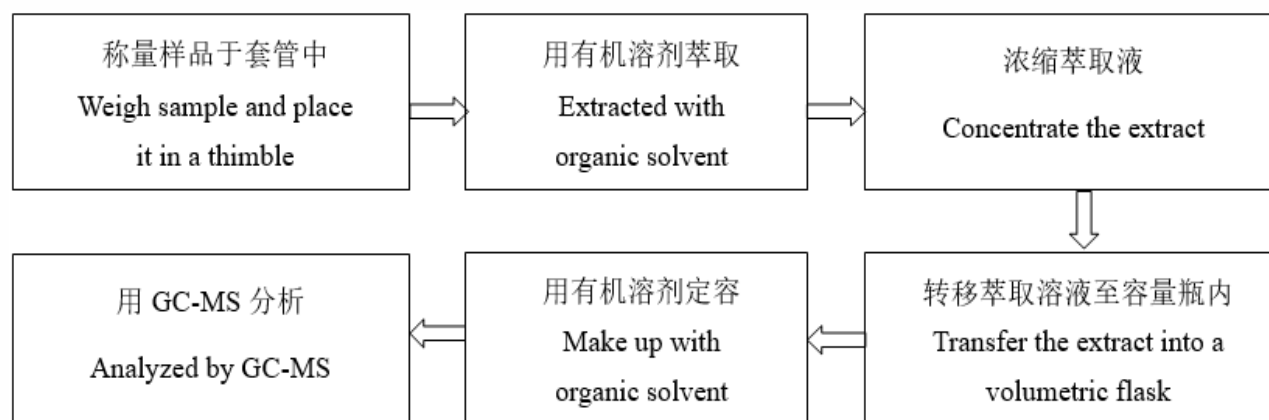
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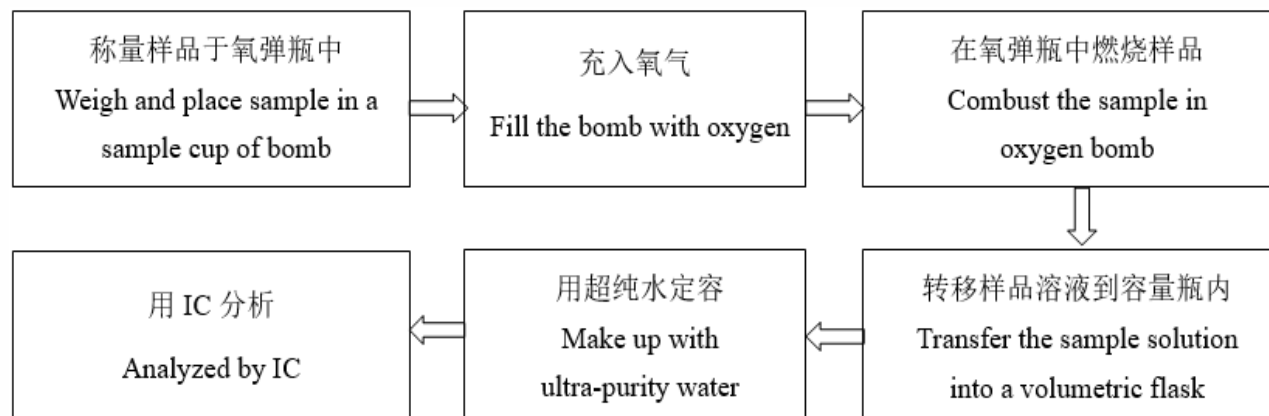
## 7. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 磷 Phosphorus(P)



## 8. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



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

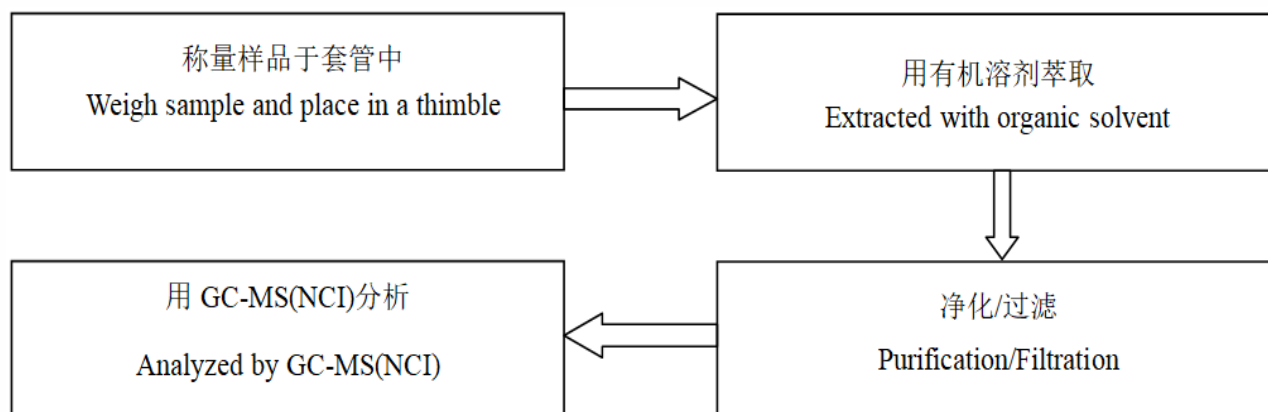


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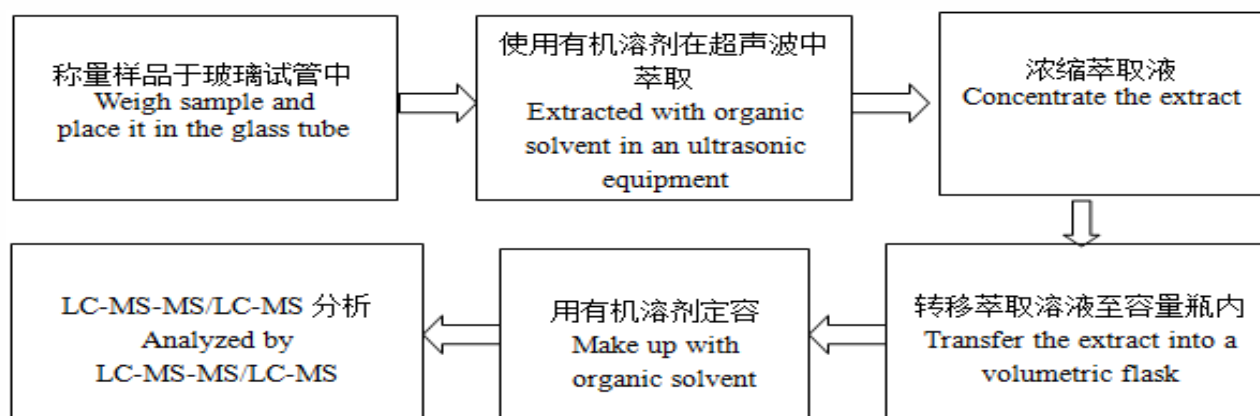
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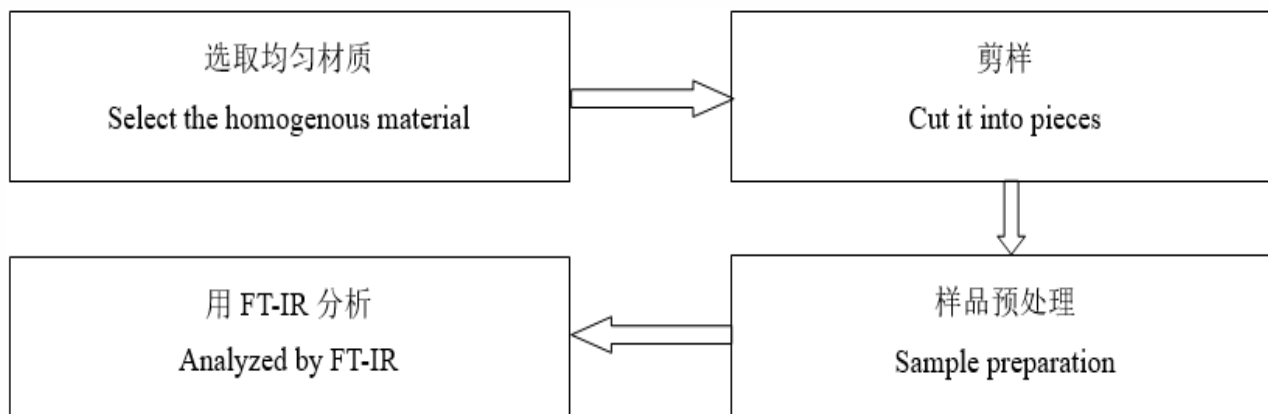
## 10. 中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs)



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



## 12. 聚氯乙烯 Polyvinyl Chloride (PVC)



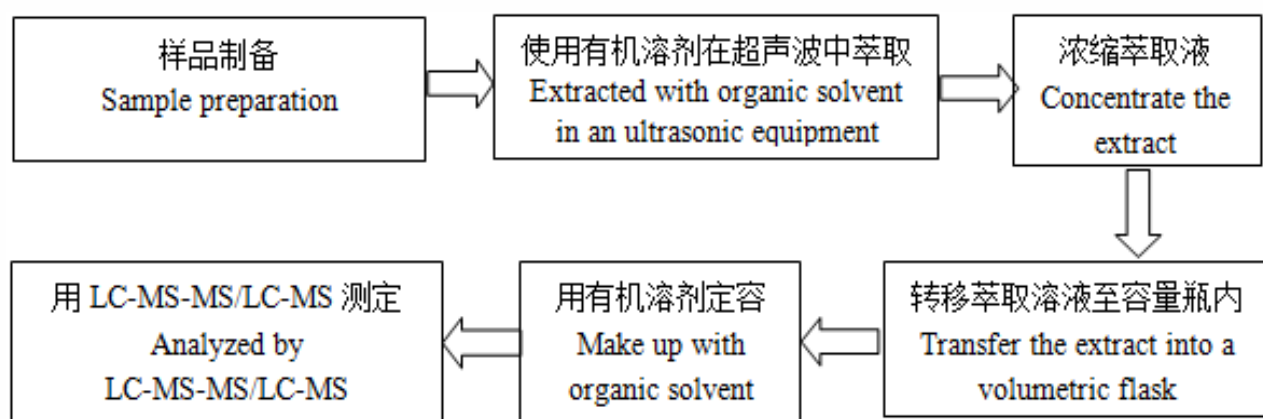
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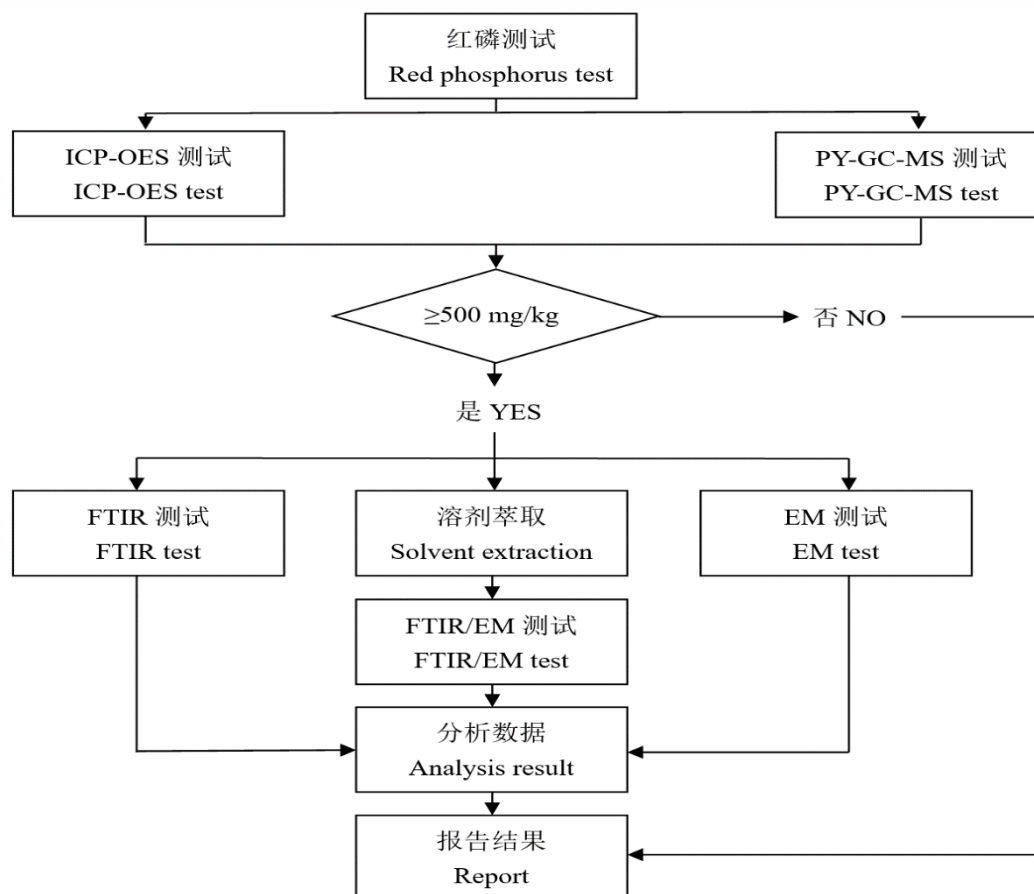
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### 13. 全氟辛酸 (PFOA)Perfluorooctanoic Acid(PFOA), 全氟辛烷磺酸 (PFOS)Perfluorooctane Sulfonates(PFOS)



### 14. 红磷 Red phosphorus



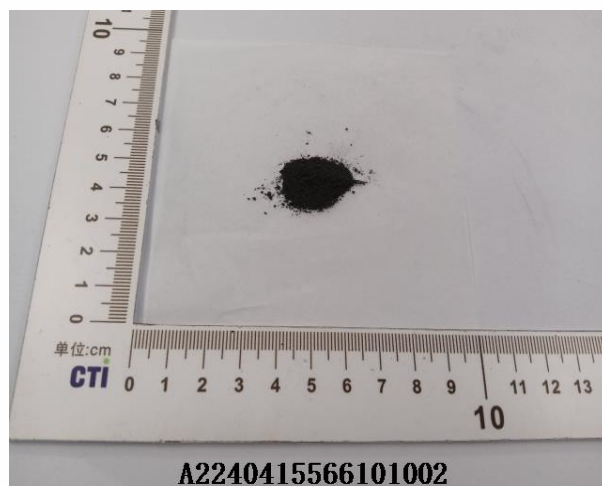
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## 样品图片

### 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;
5. 未经 CTI 书面同意, 不得部分复制本报告;  
Without written approval of CTI, this report can't be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。  
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 \*\*\*