

## 測試報告

## Test Report

號碼(No.): ETR21100527

日期(Date): 13-Jan-2021

頁數(Page): 1 of 18

景碩科技股份有限公司 (KINSUS INTERCONNECT TECHNOLOGY CORP.)

桃園市新屋區中華路1245號 (NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 景碩科技股份有限公司 (KINSUS INTERCONNECT TECHNOLOGY CORP.)

樣品名稱(Sample Name) : PLATING NICKEL

收件日(Sample Receiving Date) : 05-Jan-2021

測試期間(Testing Period) : 05-Jan-2021 to 13-Jan-2021

測試需求(Test Requested) : (1) 依據客戶指定·參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863 測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。  
(As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)  
(2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

  
Troy Chang, Manager, Technical  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: EC983F47

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### 測試部位敘述 (Test Part Description)

No.1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

No.2 : 銀色金屬 (含鍍層) (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

### 測試結果 (Test Results)

| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit)       | MDL | 結果<br>(Result) |      |
|---|--|--------------------|-----|----------------|------|
|   |  |                    |     | No.1           | No.2 |
| 鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)                  | 酸洗脫鍍層 · 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)                        | mg/kg              | 2   | n.d.           | ---  |
| 鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)                     | 酸洗脫鍍層 · 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.) | mg/kg              | 2   | n.d.           | ---  |
| 汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)                  | 酸洗脫鍍層 · 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.) | mg/kg              | 2   | n.d.           | ---  |
| 六價鉻 (Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2) | 參考IEC 62321-7-1: 2015 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)   | µg/cm <sup>2</sup> | 0.1 | n.d.           | ---  |

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| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL | 結果<br>(Result) |      |
|---|--|--------------|-----|----------------|------|
|   |  |              |     | No.1           | No.2 |
| 一溴聯苯 (Monobromobiphenyl)  | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg        | 5   | ---            | n.d. |
| 二溴聯苯 (Dibromobiphenyl)  |  | mg/kg        | 5   | ---            | n.d. |
| 三溴聯苯 (Tribromobiphenyl)   |  | mg/kg        | 5   | ---            | n.d. |
| 四溴聯苯 (Tetrabromobiphenyl)   |  | mg/kg        | 5   | ---            | n.d. |
| 五溴聯苯 (Pentabromobiphenyl)   |  | mg/kg        | 5   | ---            | n.d. |
| 六溴聯苯 (Hexabromobiphenyl)  |  | mg/kg        | 5   | ---            | n.d. |
| 七溴聯苯 (Heptabromobiphenyl)   |  | mg/kg        | 5   | ---            | n.d. |
| 八溴聯苯 (Octabromobiphenyl)  |  | mg/kg        | 5   | ---            | n.d. |
| 九溴聯苯 (Nonabromobiphenyl)  |  | mg/kg        | 5   | ---            | n.d. |
| 十溴聯苯 (Decabromobiphenyl)  |  | mg/kg        | 5   | ---            | n.d. |
| 多溴聯苯總和 (Sum of PBBs)  |  | mg/kg        | -   | ---            | n.d. |
| 一溴聯苯醚 (Monobromodiphenyl ether)   |  | mg/kg        | 5   | ---            | n.d. |
| 二溴聯苯醚 (Dibromodiphenyl ether)   |  | mg/kg        | 5   | ---            | n.d. |
| 三溴聯苯醚 (Tribromodiphenyl ether)  |  | mg/kg        | 5   | ---            | n.d. |
| 四溴聯苯醚 (Tetrabromodiphenyl ether)  |  | mg/kg        | 5   | ---            | n.d. |
| 五溴聯苯醚 (Pentabromodiphenyl ether)  |  | mg/kg        | 5   | ---            | n.d. |
| 六溴聯苯醚 (Hexabromodiphenyl ether)   |  | mg/kg        | 5   | ---            | n.d. |
| 七溴聯苯醚 (Heptabromodiphenyl ether)  |  | mg/kg        | 5   | ---            | n.d. |
| 八溴聯苯醚 (Octabromodiphenyl ether)   |  | mg/kg        | 5   | ---            | n.d. |
| 九溴聯苯醚 (Nonabromodiphenyl ether)   |  | mg/kg        | 5   | ---            | n.d. |
| 十溴聯苯醚 (Decabromodiphenyl ether)   | mg/kg  | 5            | --- | n.d.           |      |
| 多溴聯苯醚總和 (Sum of PBDEs)  | mg/kg  | -            | --- | n.d.           |      |
| 六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD)<br>(Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | 參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)     | mg/kg        | 5   | ---            | n.d. |

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桃園市新屋區中華路1245號 (NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN)

| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL | 結果<br>(Result) |      |
|---|--|--------------|-----|----------------|------|
|   |  |              |     | No.1           | No.2 |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)   | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)   |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)   |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)   |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)  |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)  |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)  |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)   |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)  |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 (DHNUP) (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)) (CAS No.: 68515-42-4) |  | mg/kg        | 50  | ---            | n.d. |
| 鄰苯二甲酸二(C6-8支鏈)烷基酯 · 富C7 (DIHP) (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)) (CAS No.: 71888-89-6)    |  | mg/kg        | 50  | ---            | n.d. |

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桃園市新屋區中華路1245號 (NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN)

| 測試項目<br>(Test Items)   | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL   | 結果<br>(Result) |      |
|--|--|--------------|-------|----------------|------|
|  |  |              |       | No.1           | No.2 |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)   | 參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)          | mg/kg        | 50    | ---            | n.d. |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)   |  | mg/kg        | 50    | ---            | n.d. |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)  |  | mg/kg        | 50    | ---            | n.d. |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)   |  | mg/kg        | 50    | ---            | n.d. |
| 多氯聯苯 (PCBs) (Polychlorinated biphenyls (PCBs))   | 參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.) | mg/kg        | 0.5   | ---            | n.d. |
| 多氯萘 (PCNs) (Polychlorinated naphthalene (PCNs))  | 參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.) | mg/kg        | 5     | ---            | n.d. |
| 多氯三聯苯 (PCTs) (Polychlorinated terphenyls (PCTs))   | 參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.) | mg/kg        | 0.5   | ---            | n.d. |
| 短鏈氯化石蠟(C10-C13) (SCCP) (Short Chain Chlorinated Paraffins(C10-C13) (SCCP)) (CAS No.: 85535-84-8) | 參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.) | mg/kg        | 50    | ---            | n.d. |
| 三丁基錫 (TBT) (Tributyl tin (TBT))  | 參考ISO 17353: 2004 · 以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.)  | mg/kg        | 0.03  | ---            | n.d. |
| 氧化雙三丁基錫 (TBTO) (Bis(tributyltin) oxide (TBTO)) (CAS No.: 56-35-9)                                | 由三丁基錫測試結果計算得之。(Calculated from the result of Tributyl Tin (TBT).)  | mg/kg        | 0.03▲ | ---            | n.d. |
| 三苯基錫 (TPhT) (Triphenyl tin (TPhT))   | 參考ISO 17353: 2004 · 以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.)  | mg/kg        | 0.03  | ---            | n.d. |

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| 測試項目<br>(Test Items)   | 測試方法<br>(Method)  | 單位<br>(Unit)      | MDL  | 結果<br>(Result) |          |
|--|---|-------------------|------|----------------|----------|
|  |   |                   |      | No.1           | No.2     |
| 二丁基錫 (DBT) (Dibutyl tin (DBT))                                     | 參考ISO 17353: 2004 · 以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.)                   | mg/kg             | 0.03 | ---            | n.d.     |
| 二辛基錫 (DOT) (Diocetyl tin (DOT))                                    | 參考ISO 17353: 2004 · 以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.)                   | mg/kg             | 0.03 | ---            | n.d.     |
| 聚氯乙烯 (Polyvinyl chloride) (PVC)                                    | 參考ASTM E1252: 2013 · 以傅立葉轉換紅外線光譜儀及焰色法分析。(With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.) | **                | -    | ---            | Negative |
| 銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)                        | 參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)                | mg/kg             | 2    | ---            | n.d.     |
| 鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)                       | 參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)                | mg/kg             | 2    | ---            | n.d.     |
| 全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | 參考CEN/TS 15968: 2010 · 以液相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS.)                  | µg/m <sup>2</sup> | 1    | n.d.           | ---      |
| 全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)    |   | µg/m <sup>2</sup> | 1    | n.d.           | ---      |

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### 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測試項目)
6. \*\* = Qualitative analysis (No Unit) 定性分析(無單位)
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
8. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including) :  
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
9. 全氟辛酸及其鹽類包含 (PFOA and its salts including) :  
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
10. (#2) =
  - a. 當六價鉻結果大於0.13 µg/cm<sup>2</sup> · 表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).)
  - b. 當六價鉻結果為n.d. (濃度小於0.10 µg/cm<sup>2</sup>) · 表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating)
  - c. 當六價鉻結果介於 0.10 及 0.13 µg/cm<sup>2</sup> 時 · 無法確定塗層是否含有六價鉻。(The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.)
11. ▲ : MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)

換算公式 (Conversion Formula) :  $AX = A \times F$

| AX  | A                         | F     |
|---|---------------------------|-------|
| 氧化雙三丁基錫<br>(Bis(tributyltin)oxide) (TBTO) | 三丁基錫 (Tributyl Tin) (TBT) | 1.024 |

參數換算表 (Parameter Conversion Table) :

[https://eecloud.sgs.com/Region\\_TW/DocDownload.aspx#otherDoc](https://eecloud.sgs.com/Region_TW/DocDownload.aspx#otherDoc)

# 測試報告

## Test Report

號碼(No.): ETR21100527

日期(Date): 13-Jan-2021

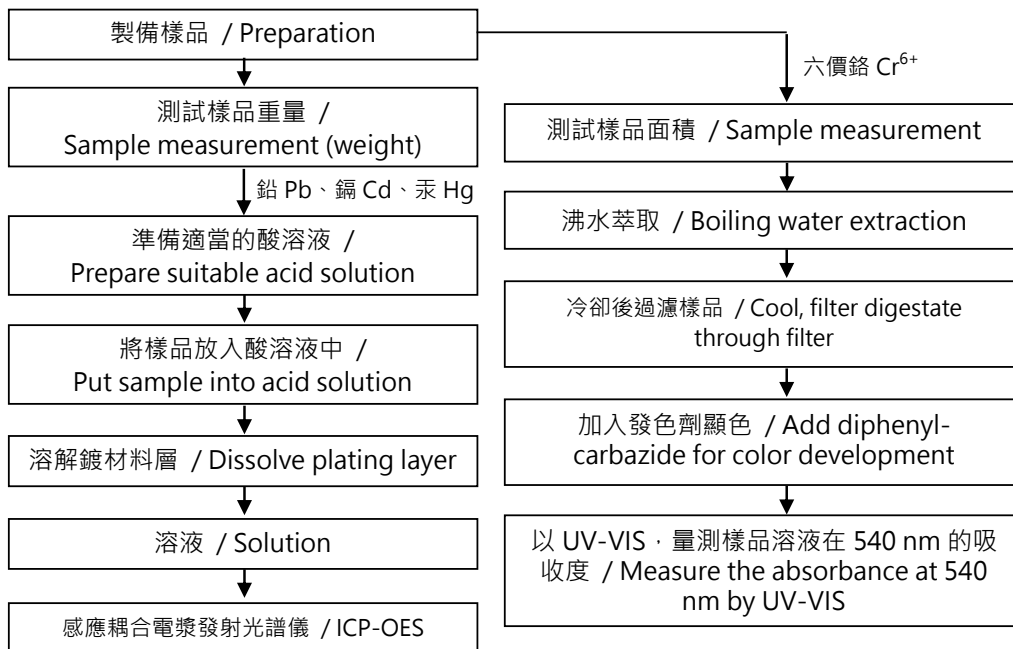
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桃園市新屋區中華路1245號 (NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN)

### 鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis

根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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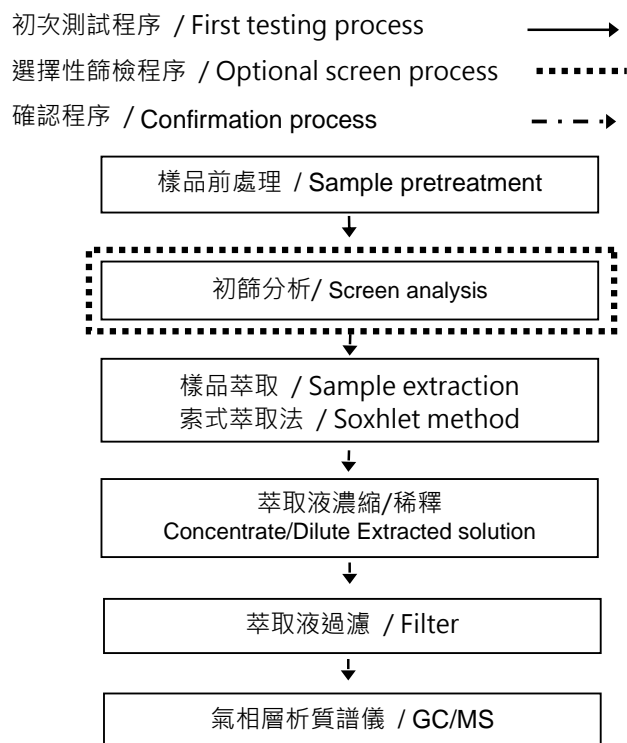
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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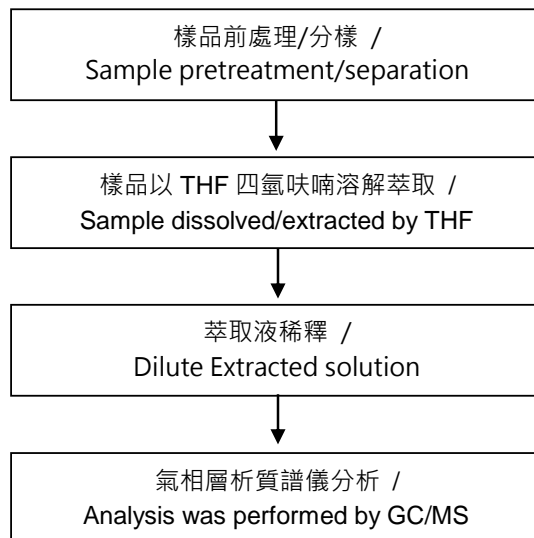
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

#### 【測試方法/Test method: IEC 62321-8】



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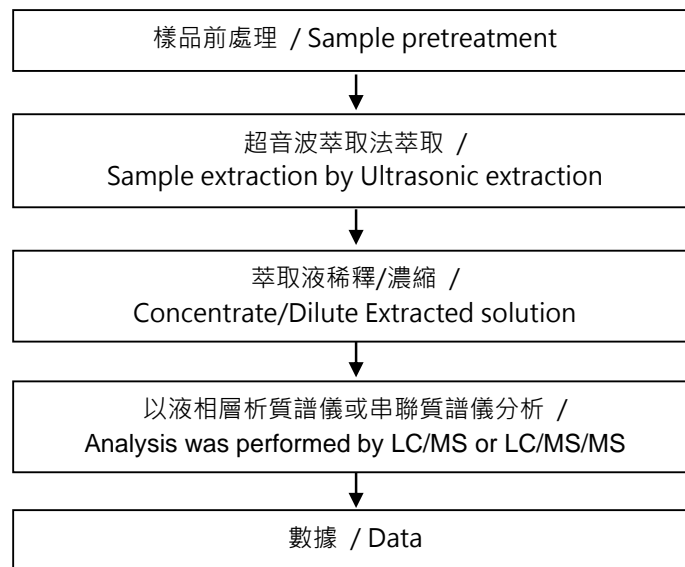
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### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS



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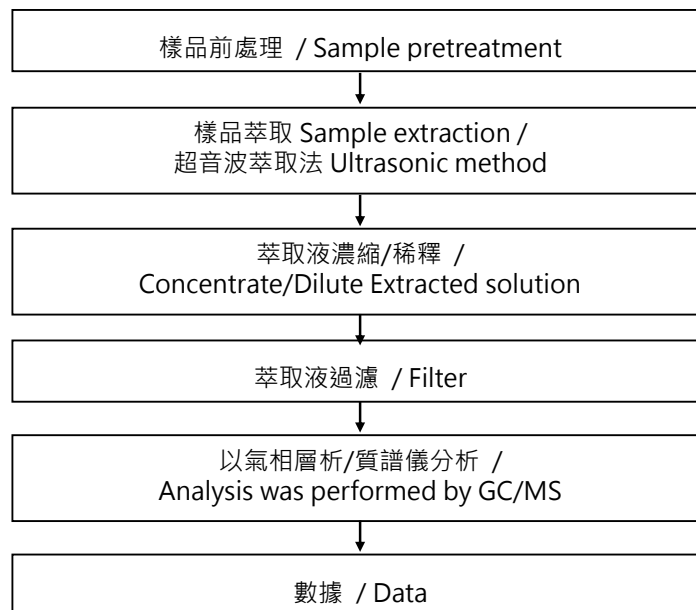
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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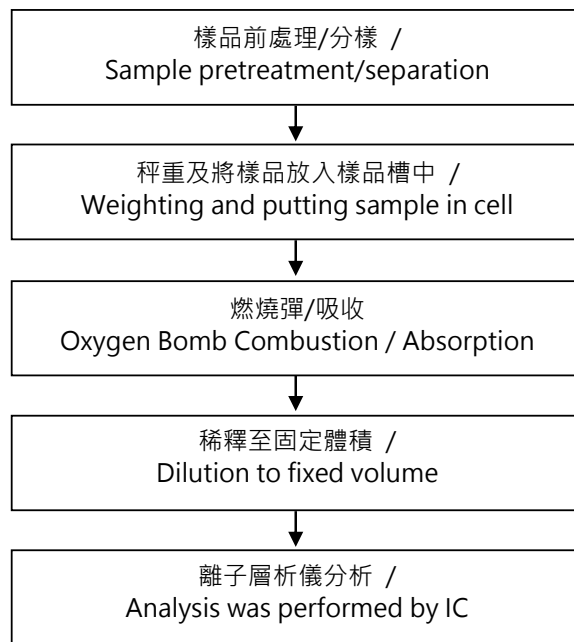
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### 鹵素分析流程圖 / Analytical flow chart - Halogen



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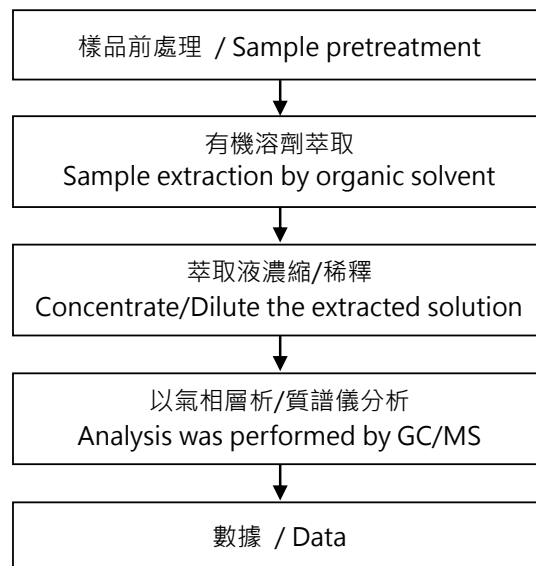
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### 分析流程圖 / Analytical flow chart

【適用於：多氯聯苯、多氯奈、多氯三聯苯、滅蟻靈、氯化石蠟、DBBT】

\*Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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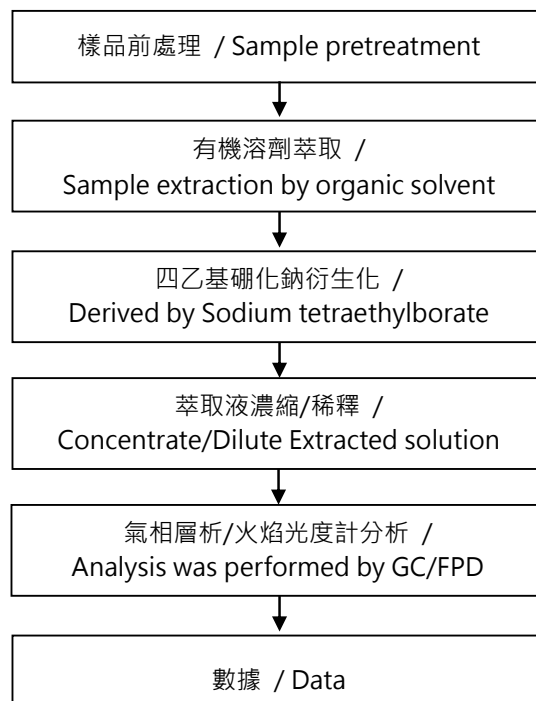
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### 有機錫分析流程圖 / Analytical flow chart - Organic-Tin



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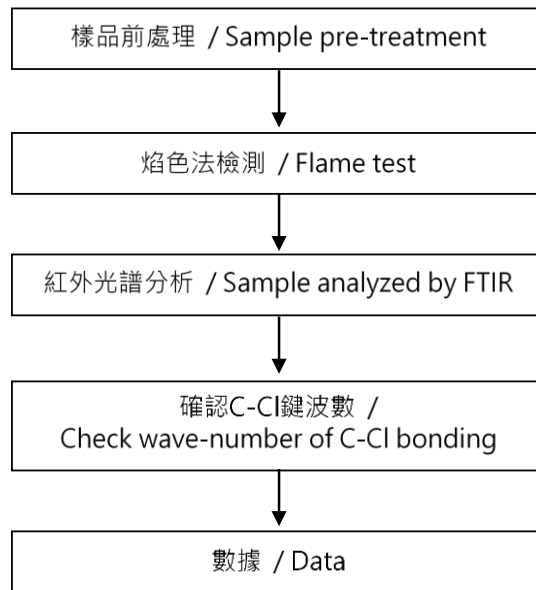
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### 聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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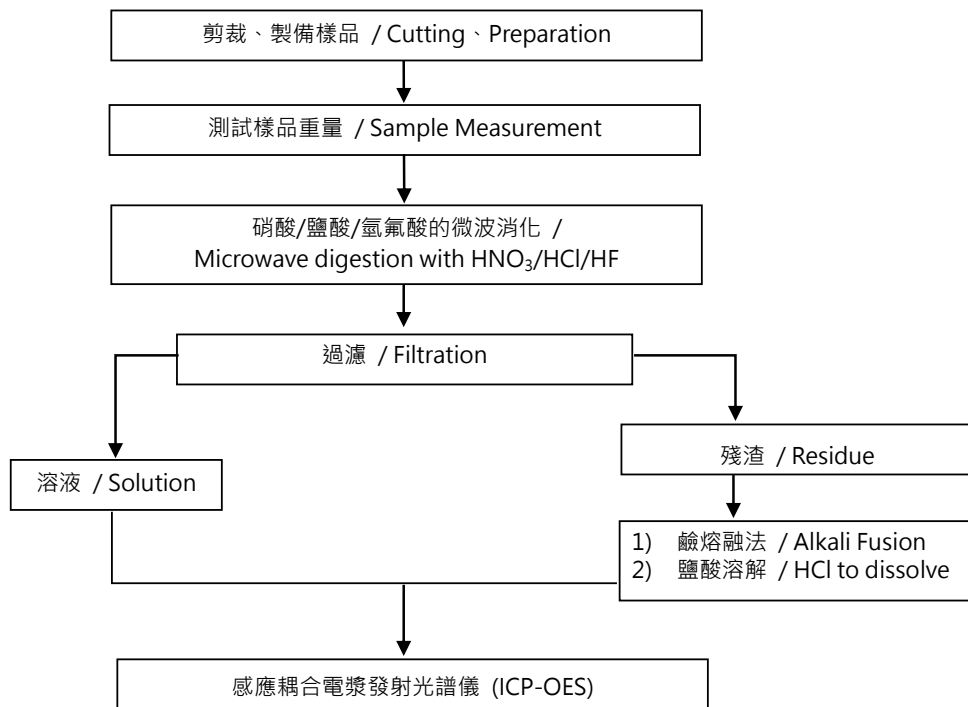
桃園市新屋區中華路1245號 (NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN)

### 重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【參考方法/Reference method : US EPA 3051A、US EPA 3052】



\* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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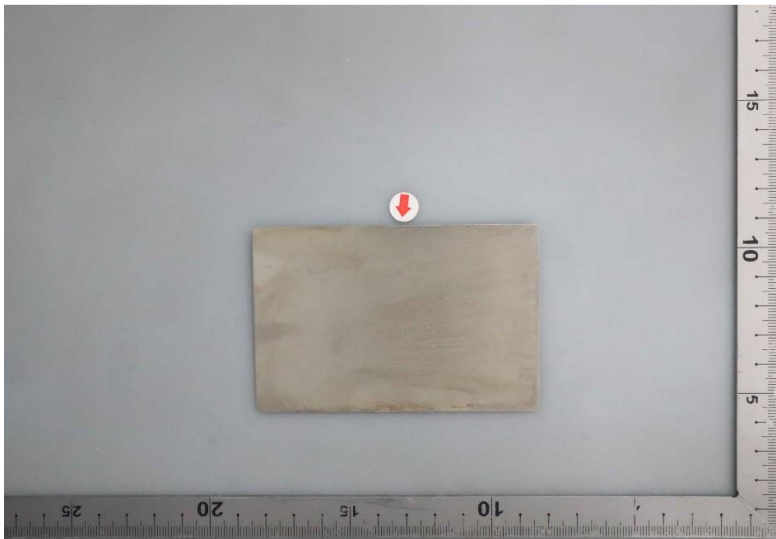
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

### ETR21100527 NO.1



### ETR21100527 NO.2



\*\* 報告結尾 (End of Report) \*\*

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