

## 測試報告 Test Report

號碼(No.) : KA/2014/81682 日期(Date) : 2014/09/04 頁數(Page) : 1 of 13

奇美實業股份有限公司  
CHI MEI CORPORATION  
台南市仁德區三甲里59-1號  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : YAG PHOSPHOR  
樣品型號(Style/Item No.) : 請參考第2頁 (Please refer to page 2).  
收件日期(Sample Receiving Date) : 2014/08/29  
測試期間(Testing Period) : 2014/08/29 TO 2014/09/04  
送樣廠商(Sample Submitted By) : 奇美實業股份有限公司 (CHI MEI CORPORATION)

=====  
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

  
  
Ray Chang / Asst. Manager  
Signed for and on behalf of  
SGS Taiwan Limited  
Chemical Laboratory-Kaohsiung

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 CHI MEI CORPORATION  
 台南市仁德區三甲里59-1號  
 59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

樣品型號(Style/Item No.) : PF-Y10W//N/E/5 PF-Y11W//N/E/5 PF-Y12W//N/E/5 PF-Y13W//N/E/5  
 PF-Y14W//N/E/5 PF-Y15W//N/E/5 PF-Y16W//N/E/5 PF-Y17W//N/E/5  
 PF-Y18W//N/E/5 PF-Y19W//N/E/5 PF-Y20W//N/E/5 PF-Y21W//N/E/5  
 PF-Y22W//N/E/5 PF-Y23W//N/E/5 PF-Y24W//N/E/5 PF-Y25W//N/E/5  
 PF-Y26W//N/E/5 PF-Y27W//N/E/5 PF-Y28W//N/E/5 PF-Y29W//N/E/5  
 PF-Y30W//N/E/5 PF-Y31W//N/E/5 PF-Y32W//N/E/5 PF-Y33W//N/E/5  
 PF-Y34W//N/E/5 PF-Y35W//N/E/5 PF-Y36W//N/E/5 PF-Y37W//N/E/5  
 PF-Y38W//N/E/5 PF-Y39W//N/E/5 PF-Y40W//N/E/5 PF-Y41W//N/E/5  
 PF-Y42W//N/E/5 PF-Y42W//N/E/5 PF-Y44W//N/E/5 PF-Y45W//N/E/5  
 PF-Y46W//N/E/5 PF-Y47W//N/E/5 PF-Y48W//N/E/5 PF-Y49W//N/E/5  
 PF-Y50W//N/E/5 PF-Y51W//N/E/5 PF-Y52W//N/E/5 PF-Y53W//N/E/5  
 PF-Y54W//N/E/5 PF-Y55W//N/E/5 PF-Y56W//N/E/5 PF-Y57W//N/E/5  
 PF-Y58W//N/E/5 PF-Y59W//N/E/5 PF-Y60W//N/E/5 PF-Y61W//N/E/5  
 PF-Y62W//N/E/5 PF-Y63W//N/E/5 PF-Y64W//N/E/5 PF-Y65W//N/E/5  
 PF-Y66W//N/E/5 PF-Y67W//N/E/5 PF-Y68W//N/E/5 PF-Y69W//N/E/5  
 PF-Y70W//N/E/5 PF-Y71W//N/E/5 PF-Y72W//N/E/5 PF-Y73W//N/E/5  
 PF-Y74W//N/E/5 PF-Y75W//N/E/5 PF-Y76W//N/E/5 PF-Y77W//N/E/5  
 PF-Y78W//N/E/5 PF-Y79W//N/E/5 PF-Y80W//N/E/5 (200/300 /20A)

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奇美實業股份有限公司  
 CHI MEI CORPORATION  
 台南市仁德區三甲里59-1號  
 59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

### 測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黃色 YAG PHOSPHOR (YELLOW YAG PHOSPHOR)

| 測試項目<br>(Test Items)                                       | 單位<br>(Unit) | 測試方法<br>(Method)   | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|--|--------------|--|----------------------|----------------|
|  |              |  |                      | NO.1           |
| 鎘 / Cadmium (Cd)   | mg/kg        | 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2                    | n.d.           |
| 鉛 / Lead (Pb)  | mg/kg        | 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2                    | n.d.           |
| 汞 / Mercury (Hg)   | mg/kg        | 參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2                    | n.d.           |
| 六價鉻 / Hexavalent Chromium Cr(VI)<br>by alkaline extraction | mg/kg        | 參考IEC 62321: 2008方法, 用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.             | 2                    | n.d.           |
| 多溴聯苯總和 / Sum of PBBs                                       | mg/kg        | 參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.           | -                    | n.d.           |
| 一溴聯苯 / Monobromobiphenyl                                   | 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.                 |                |

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# 測試報告

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奇美實業股份有限公司

CHI MEI CORPORATION

台南市仁德區三甲里59-1號

59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

| 測試項目<br>(Test Items)  | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|---|--------------|---|----------------------|----------------|
|   |              |   |                      | NO.1           |
| 多溴聯苯醚總和 / Sum of PBDEs  | mg/kg        | 參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀<br>檢測. / With reference to IEC 62321: 2008 and<br>performed by GC/MS.                 | -                    | 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.                 |                |
| 六溴環十二烷及所有主要被辨別出的異構<br>物 / Hexabromocyclododecane (HBCDD)<br>and all major diastereoisomers<br>identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ -<br>HBCDD) (CAS No.: 25637-99-4 and 3194-<br>55-6 (134237-51-7, 134237-50-6,<br>134237-52-8)) | mg/kg        | 參考IEC 62321: 2008方法, 以氣相層析/質譜儀檢<br>測. / With reference to IEC 62321: 2008<br>method. Analysis was performed by GC/MS. | 5                    | n.d.           |
| 聚氯乙烯 / PVC  | **           | 以紅外光譜分析及焰色法檢測. / Analysis was<br>performed by FTIR and FLAME Test.  | -                    | Negative       |
| 可塑劑定量分析 / Phthalates  |              |   |                      |                |
| 鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl<br>butyl phthalate) (CAS No.: 85-68-7)   | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之. / With reference to EN 14372. Analysis<br>was performed by GC/MS.                   | 0.003                | n.d.           |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl<br>phthalate) (CAS No.: 84-74-2)  | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之. / With reference to EN 14372. Analysis<br>was performed by GC/MS.                   | 0.003                | n.d.           |

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奇美實業股份有限公司

CHI MEI CORPORATION

台南市仁德區三甲里59-1號

59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

| 測試項目<br>(Test Items)   | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|--|--------------|---|----------------------|----------------|
|  |              |   |                      | NO.1           |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP<br>(Di-(2-ethylhexyl) phthalate) (CAS<br>No.: 117-81-7)     | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之。 / With reference to EN 14372. Analysis<br>was performed by GC/MS.     | 0.003                | n.d.           |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-<br>isodecyl phthalate) (CAS No.: 26761-<br>40-0, 68515-49-1) | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之。 / With reference to EN 14372. Analysis<br>was performed by GC/MS.     | 0.01                 | n.d.           |
| 鄰苯二甲酸二異壬酯 / DINP (Di-<br>isononyl phthalate) (CAS No.: 28553-<br>12-0, 68515-48-0) | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之。 / With reference to EN 14372. Analysis<br>was performed by GC/MS.     | 0.01                 | n.d.           |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl<br>phthalate) (CAS No.: 117-84-0)                     | %            | 本測試參考EN 14372, 以氣相層析儀/質譜儀檢<br>測之。 / With reference to EN 14372. Analysis<br>was performed by GC/MS.     | 0.003                | n.d.           |
| <b>鹵素 / Halogen</b>  |              |   |                      |                |
| 鹵素 (氟) / Halogen-Fluorine<br>(F) (CAS No.: 014762-94-8)                            | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析。 /<br>With reference to BS EN 14582:2007. Analysis<br>was performed by IC. | 50                   | n.d.           |
| 鹵素 (氯) / Halogen-Chlorine<br>(Cl) (CAS No.: 022537-15-1)                           | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析。 /<br>With reference to BS EN 14582:2007. Analysis<br>was performed by IC. | 50                   | n.d.           |
| 鹵素 (溴) / Halogen-Bromine<br>(Br) (CAS No.: 010097-32-2)                            | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析。 /<br>With reference to BS EN 14582:2007. Analysis<br>was performed by IC. | 50                   | n.d.           |
| 鹵素 (碘) / Halogen-Iodine<br>(I) (CAS No.: 014362-44-8)                              | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析。 /<br>With reference to BS EN 14582:2007. Analysis<br>was performed by IC. | 50                   | n.d.           |

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CHI MEI CORPORATION

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59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

### 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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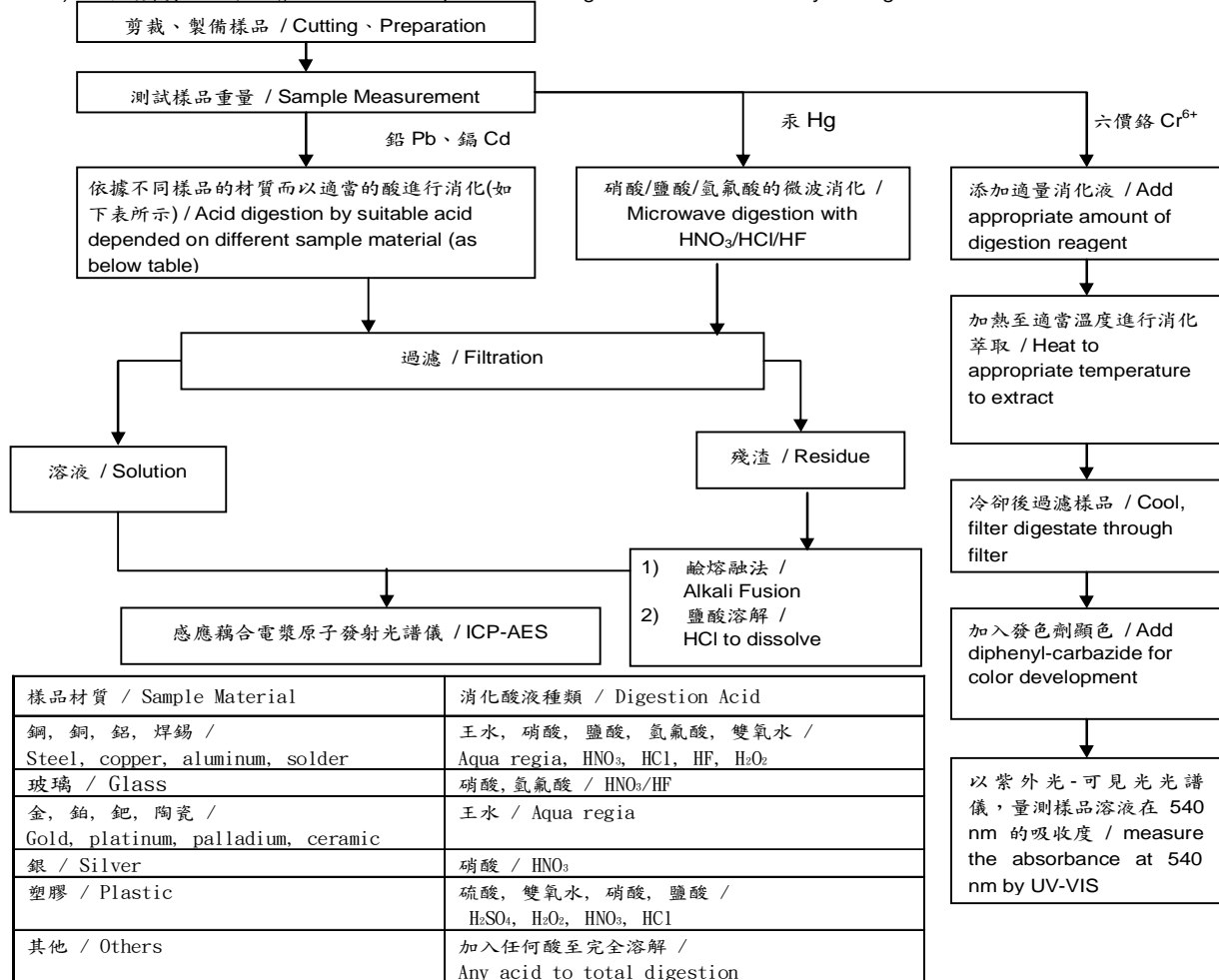
奇美實業股份有限公司

CHI MEI CORPORATION

台南市仁德區三甲里59-1號

59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



**Note\*\*** : (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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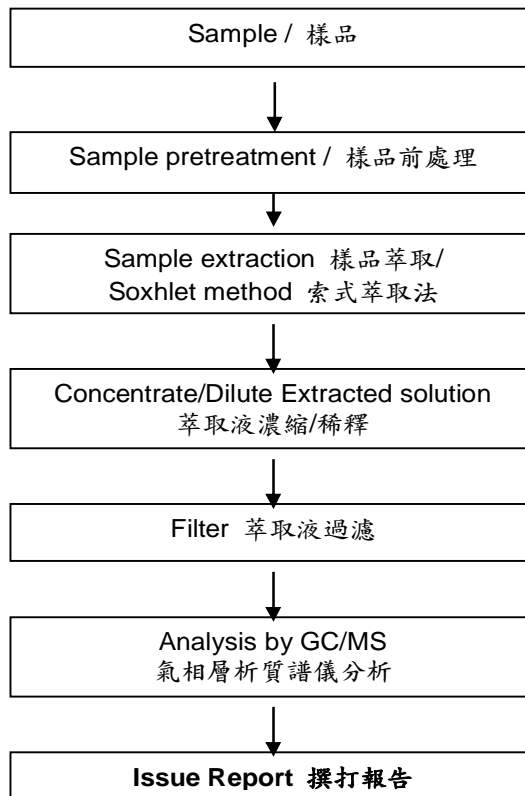
CHI MEI CORPORATION

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### 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen  
2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



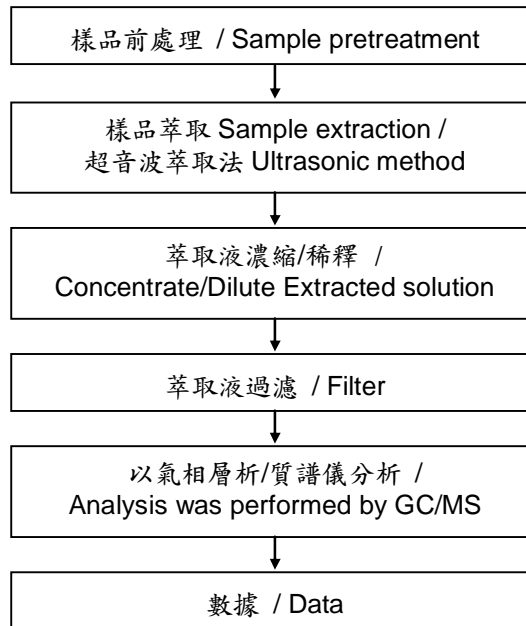
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### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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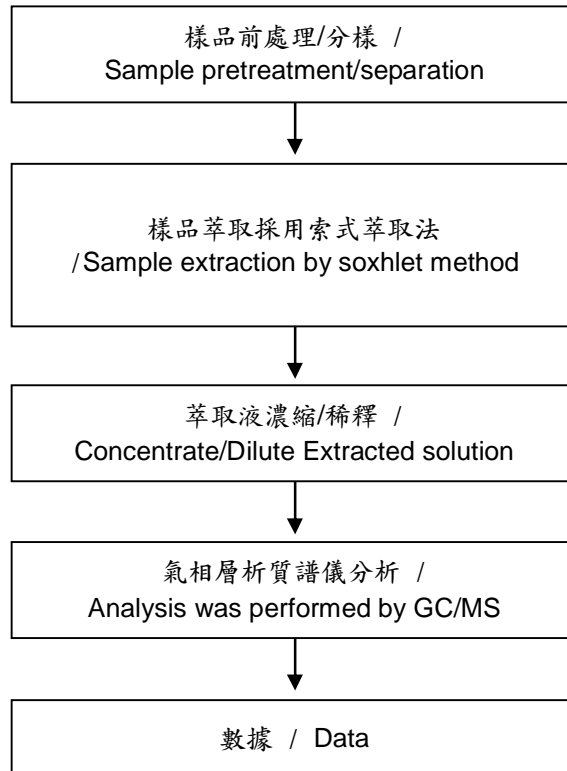
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### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen

2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

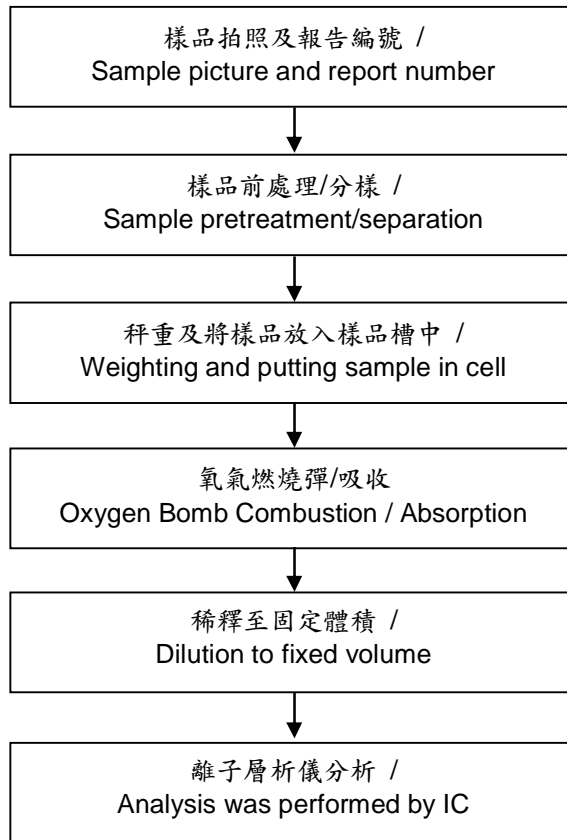


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### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：洪秀真 / Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



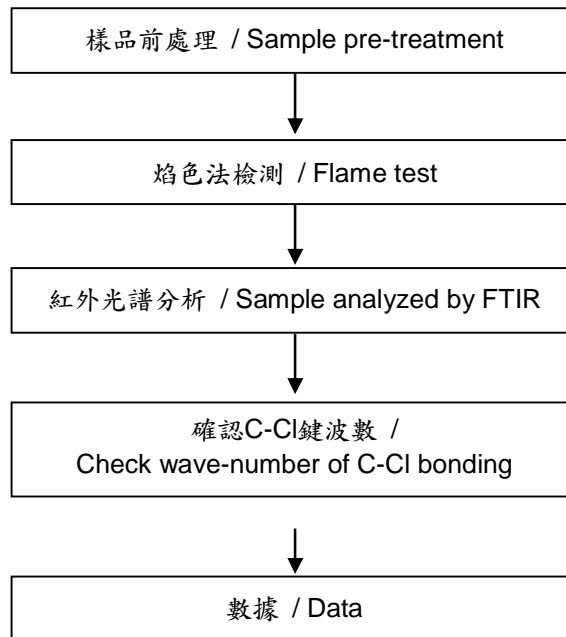
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### 聚氯乙稀物質判定分析流程圖 /

### Analysis flow chart for determination of PVC in material

- 1) 測試人員：戴秀純 / Name of the person who made measurement: Hannah Tai  
2) 測試負責人：林立翔 / Name of the person in charge of measurement: Roger Lin



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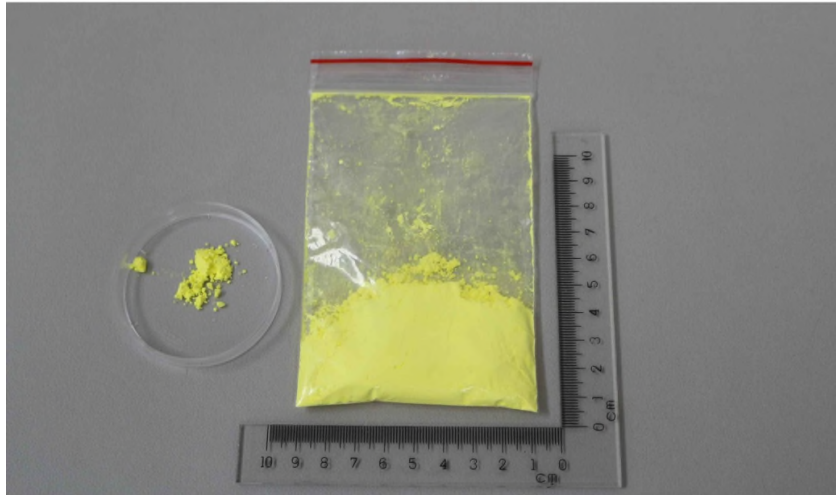
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

# KA/2014/81682



\*\* 報告結尾(End of Report) \*\*