

## 測試報告 Test Report

號碼(No.) : KA/2012/10646

日期(Date) : 2012/01/20

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)

高雄市楠梓加工出口區西三街16號

16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

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) : MULTI-LAYER CERAMIC CAPACITOR  
樣品型號(Style/Item No.) : X7R 1210 SERIES  
收件日期(Sample Receiving Date) : 2012/01/12  
測試期間(Testing Period) : 2012/01/12 TO 2012/01/20  
送樣廠商(Sample Submitted By) : 國巨股份有限公司楠梓分公司 (YAGEO CORPORATION NANTZE BRANCH )

測試需求(Test Requested) : 參照RoHS 2011/65/EU Annex II 指令要求。(In accordance with the RoHS Directive 2011/65/EU Annex II).

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



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### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 棕色/銀色 MULTI-LAYER CERAMIC CAPACITOR (BROWN/SILVER MULTI-LAYER CERAMIC CAPACITOR)

| 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: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2                    | n.d.           |
| 鉛 / Lead (Pb)                    | mg/kg        |  | 2                    | n.d.           |
| 汞 / Mercury (Hg)                 | mg/kg        |  | 2                    | n.d.           |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg        | 參考IEC 62321: 2008方法, 以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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高雄市楠梓加工出口區西三街16號  
16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

| 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/<br>質譜儀檢測. / With reference to IEC<br>62321: 2008 and 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.           |

### 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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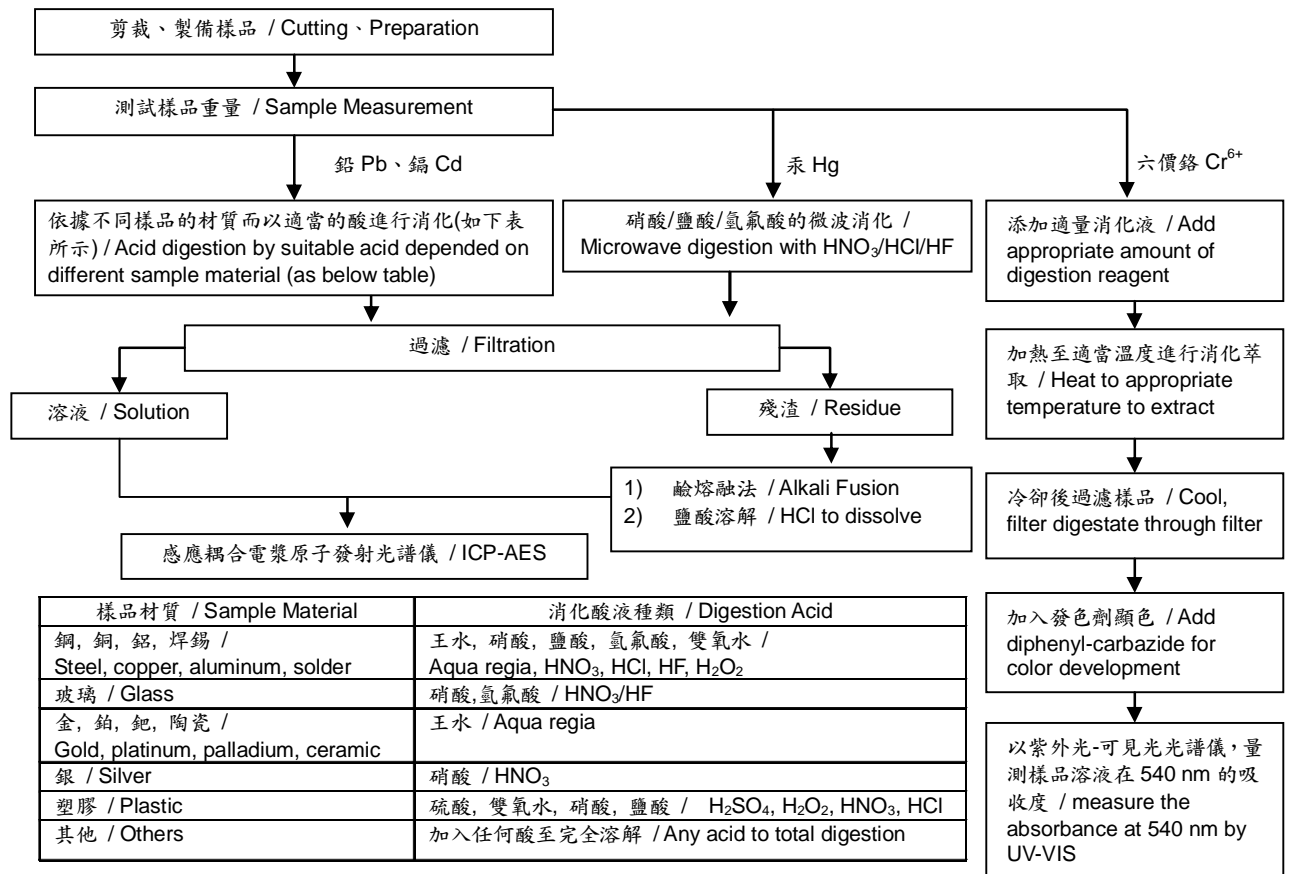
國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

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- 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：張俊雄 / Name of the person who made measurement: Alex Chang
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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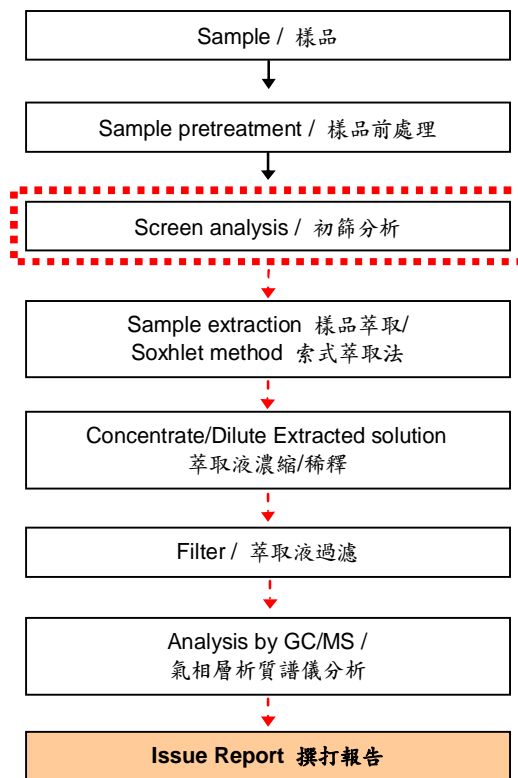
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### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：曹嘉琪 / Name of the person who made measurement: Anson Tsao
  - 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang
- 初次測試程序 / First testing process —————>
- 選擇性篩檢程序 / Optional screen process .....>
- 確認程序 / Confirmation process - - - ->



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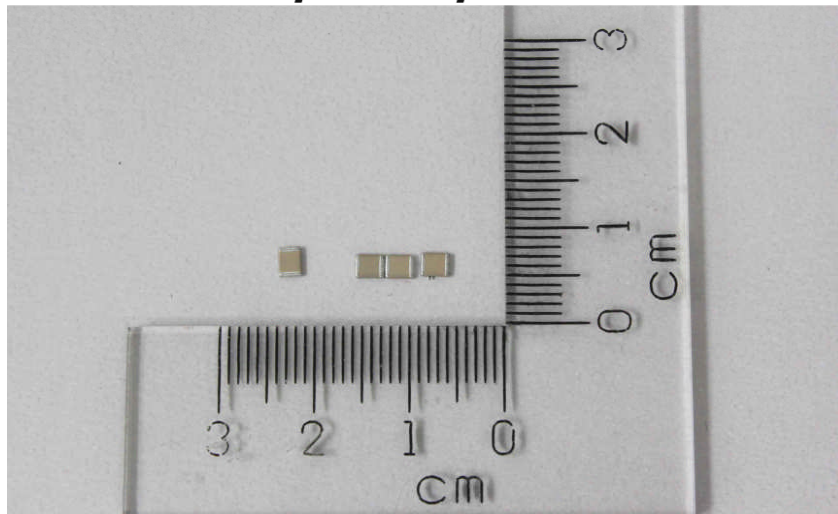
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

### KA/2012/10646



\*\* 報告結尾 (End of Report) \*\*

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