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日期(Date): 2010/01/22

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Test Report

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户送樣, 且由客户聲稱並經客户確認如下 (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.)

MLCC NPO 1206 SERIES

: BME

收件日期(Sample Receiving Date)

2010/01/06

測試期間(Testing Period)

: 2010/01/06 TO 2010/01/22

測試需求(Test Requested)

參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS

Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method)

: :

請見下一頁 (Please refer to next pages).

測試結果(Test Results)

Ray Chang / Asst. Manager

Signed for and on behalf of

SGS Taiwan Limited



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測試方法(Test Method)

- : 参考IEC 62321: 2008方法檢測. (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
 - (1) 用感應藕合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
 - (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
 - (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
 - (4) 用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium by UV/Vis Spectrometry.
 - (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

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測試結果(Test Results) 單位(Unit): mg/kg

| 測試項目 | 測試方法 Method | 結果 (Result) | 方法偵測 極限値 |
|-------------------------------------|----------------|-------------|-------------|
| (Test Items) | (Refer to) | No.1 | (MDL) |
| 鎬 / Cadmium (Cd) | (1) | n.d. | 2 |
| 鉛 / Lead (Pb) | (2) | n.d. | 2 |
| 汞 / Mercury (Hg) | (3) | n.d. | 2 |
| 六價鉻 / Hexavalent Chromium Cr(VI) by | (4) | n.d. | 2 |
| alkaline extraction | | | |
| 多溴聯苯總和 / Sum of PBBs | (5) | n.d. | - |
| 一溴聯苯 / Monobromobiphenyl | | n.d. | 5 |
| 二溴聯苯 / Dibromobiphenyl | | n.d. | 5 |
| 三溴聯苯 / Tribromobiphenyl | | n.d. | 5 |
| 四溴聯苯 / Tetrabromobiphenyl | | n.d. | 5 |
| 五溴聯苯 / Pentabromobiphenyl | | n.d. | 5 |
| 六溴聯苯 / Hexabromobiphenyl | | n.d. | 5 |
| 七溴聯苯 / Heptabromobiphenyl | | n.d. | 5 |
| 八溴聯苯 / Octabromobiphenyl | | n.d. | 5 |
| 九溴聯苯 / Nonabromobiphenyl | | n.d. | 5 |
| 十溴聯苯 / Decabromobiphenyl | | n.d. | 5 |
| 多溴聯苯醚總和 / Sum of PBDEs | | n.d. | - |
| 一溴聯苯醚 / Monobromodiphenyl ether | | n.d. | 5 |
| 二溴聯苯醚 / Dibromodiphenyl ether | | n.d. | 5 |
| 三溴聯苯醚 / Tribromodiphenyl ether | | n.d. | 5 |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | | n.d. | 5 |
| 五溴聯苯醚 / Pentabromodiphenyl ether | | n.d. | 5 |
| 六溴聯苯醚 / Hexabromodiphenyl ether | | n.d. | 5 |
| 七溴聯苯醚 / Heptabromodiphenyl ether | | n.d. | 5 |
| 八溴聯苯醚 / Octabromodiphenyl ether | | n.d. | 5 |
| 九溴聯苯醚 / Nonabromodiphenyl ether | | n.d. | 5 |
| 十溴聯苯醚 / Decabromodiphenyl ether | | n.d. | 5 |

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測試部位描述 (TEST PART DESCRIPTION):

銀色/灰色 MULTI-LAYER CERAMIC CAPACITOR (SILVER/GRAY MULTI-LAYER CERAMIC CAPACITOR)

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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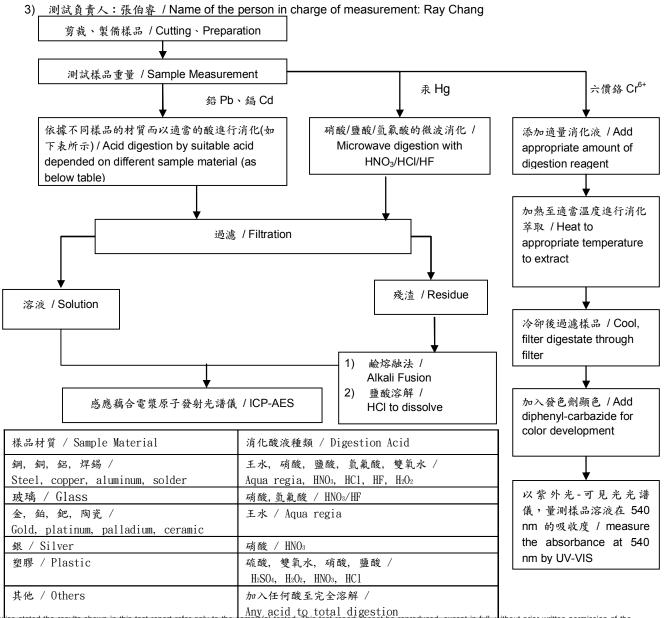
國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

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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. (Cr⁶⁺ test method excluded)
- 2) 測試人員: 李宏明 / Name of the person who made measurement: Hungming Li



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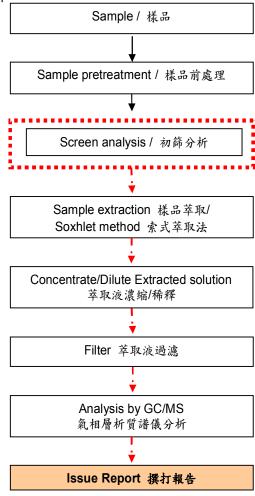
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員:曹嘉琪 / Name of the person who made measurement: Anson Tsao 2)测試負責人: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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** 報告結尾(End of Report) **

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