

#### 測試報告 號碼(No.): KA/2010/10205 日期(Date): 2010/01/22 Test Report

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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 Y5V 0805 SERIES
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)	:	請兄▶─貝 (Please refer to next pages).

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Ray Chang / Asst. Manager/ Signed for and on behalf of SGS Taiwan Limited

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测試方法(Test Method)
: 參考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).

- 用感應藕合電漿原子發射光譜儀檢測鎬含量. / 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檢測六價銘含量. / 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)
鎘 / 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		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	(5)	n.d.	5
多溴聯苯醚總和 / Sum of PBDEs	(5)	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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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No. 61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / 高雄市楠梓加工出口區開發路61號 t + 886 (07)301 2121 f + 886 (07)3010867 www.tw.sas.com



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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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#### <u>測試部位描述 (TEST PART DESCRIPTION):</u>

NO.1 : 銀色/棕色 MULTI-LAYER CERAMIC CAPACITOR (SILVER/BROWN 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 (無規格値)

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 SGS Taiwan Ltd.
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YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)

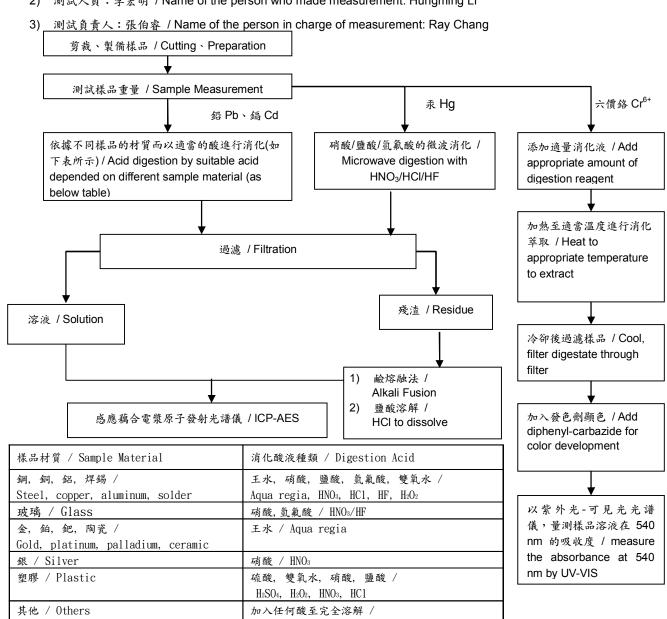
高雄市楠梓加工出口區西三街16號

Unless other

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

1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價錄測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

測試人員: 本宏明 / Name of the person who made measurement: Hungming Li



Unless of the results stated the results stated by the results report relation only to the state of the results and results a

Any acid to total digestion

without prior written permission of the



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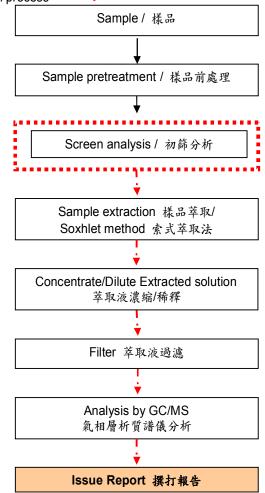
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

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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