

號碼(No.): KA/2010/10178

日期(Date): 2010/01/22

頁數(Page): 1 of 7

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 0402 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) :	参照 Ro	HS 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	(D1.0000	nofor	t 0	nort	
測試結果(Test Results)	:	胡尤十一页	(Flease	rerer	ιο	next	pages).

Kan

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the

Company, kinking the time of its intervention only and within the limits of Client's instructions, if any. The Company's cole responsibility is to its Client and this document does not exonerate parties to a transaction formexersion of the immutation of the limit and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawful and offenders may be prosecuted to the fullest extent of the law.



號碼(No.): KA/2010/10178

日期(Date): 2010/01/22

頁數(Page): 2 of 7

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.

測試方法(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檢測六價絡含量. / 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. k_{FF} , f_{RE} , k_{FF} , f_{RE} , k_{FF} , k_{FE} , $k_$

SGS

測試報告 **Test Report**

號碼(No.): KA/2010/10178

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.

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	他 (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	(3)	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	7	n.d.	5	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention, its intervention, if any. The Company's sole responsibility is to its Client's instructions, its client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



號碼(No.): KA/2010/10178

日期(Date): 2010/01/22

頁數(Page): 4 of 7

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.

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

NO.1 : 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 (無規格値)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention, its intervention, if any. The Company's sole responsibility is to its Client's instructions, its client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

 SGS Taiwan Ltd.
 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

 台灣檢驗科技股份有限公司
 t + 886 (07)301 2121
 f + 886 (07)3010867
 www.tw.sqs.com



號碼(No.): KA/2010/10178 日期(Date): 2010/01/22

頁數(Page): 5 of 7

國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

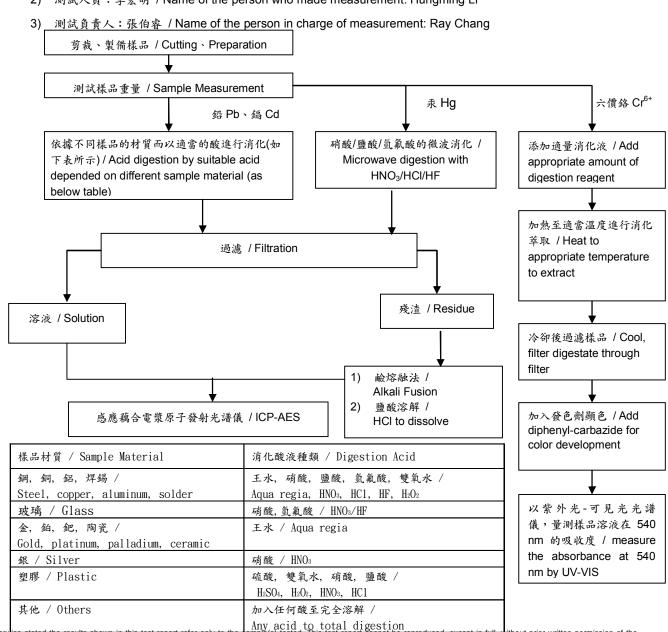
YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)

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.

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



without prior written permission of the Unless other

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



號碼(No.): KA/2010/10178

日期(Date): 2010/01/22

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.

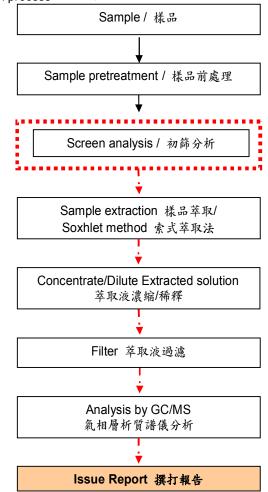
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

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 --- ►



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the

Company, kinking the time of its intervention only and within the limits of Client's instructions, if any. The Company's cole responsibility is to its Client and this document does not exonerate parties to a transaction formexersion of the immutation of the limit and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawful and offenders may be prosecuted to the fullest extent of the law.



號碼(No.): KA/2010/10178

頁數(Page): 7 of 7

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.



** 報告結尾(End of Report) **

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention, its intervention, if any. The Company's sole responsibility is to its Client's instructions, its client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

 SGS Taiwan Ltd.
 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

 台灣檢驗科技股份有限公司
 t + 886 (07)301 2121
 f + 886 (07)3010867
 www.tw.sqs.com