

測試報告

Test Report

號碼(No.) : CE/2013/13752A 日期(Date) : 2013/02/22 頁數(Page) : 1 of 13

BOURNS, INC.

1200 COLUMBIA AVE. RIVERSIDE, CA 92507, USA



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) : VARISTOR 突波吸收器
收件日期(Sample Receiving Date) : 2013/01/17
測試期間(Testing Period) : 2013/01/17 TO 2013/01/23

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


Edison Chang / Sr. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試結果(Test Results)

- 測試部位(PART NAME)No.1 : 黑色陶瓷/銀色金屬 (銀片) (BLACK CERAMIC/SILVER COLORED METAL (ELECTRODE))
- 測試部位(PART NAME)No.2 : 銀色金屬線 (含鍍層) (銅線) (0.8mm) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER) (CONUNSTRUCTION ELEMENT)(0.8mm))
- 測試部位(PART NAME)No.3 : 銀色金屬 (焊錫) (SILVER COLORED METAL (SOLDER))
- 測試部位(PART NAME)No.4 : 藍色粉末 (藍色塗裝粉) (BLUE POWDER (POWDER))
- 測試部位(PART NAME)No.5 : 墨綠色粉末 (墨綠色塗裝粉) (BLACKISH GREEN POWDER (POWDER))
- 測試部位(PART NAME)No.6 : 桔色粉末 (橘色塗裝粉) (ORANGE POWDER (POWDER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1	No.2	No.3
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.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg		2	9	n.d.	62
汞 / Mercury (Hg)	mg/kg		2	n.d.	n.d.	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.	---	---
	**	參考 IEC 62321: 2008 方法, 以沸水萃取法檢測. / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	---	Negative	Negative

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BOURNS, INC.



1200 COLUMBIA AVE. RIVERSIDE, CA 92507, USA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No. 1	No. 2	No. 3
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	

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BOURNS, INC.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1	No.2	No.3
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.	n.d.	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.	n.d.	n.d.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.4	No.5	No.6
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.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg		2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg		2	n.d.	n.d.	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.	n.d.	n.d.

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BOURNS, INC.



1200 COLUMBIA AVE. RIVERSIDE, CA 92507, USA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No. 4	No. 5	No. 6
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	

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BOURNS, INC.



1200 COLUMBIA AVE. RIVERSIDE, CA 92507, USA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.4	No.5	No.6
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	264	339	319
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.	n.d.	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)
5. "---" = Not Conducted (未測項目)
6. ** = Qualitative analysis (No Unit) 定性分析(無單位)
7. # = a. Positive means the presence of CrVI on the tested areas
(Positive表示測試區域偵測到六價鉻)
b. Negative means the absence of CrVI on the tested areas
(Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度 ≥ 0.02 mg/kg with 50 cm² (tested areas)

8. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)
9. 此份報告取代簽署人為Chenyu Kung之CE/2013/13752A報告。(This report supersedes the previous document bearing the test report number CE/2013/13752A which signed by Chenyu Kung.)

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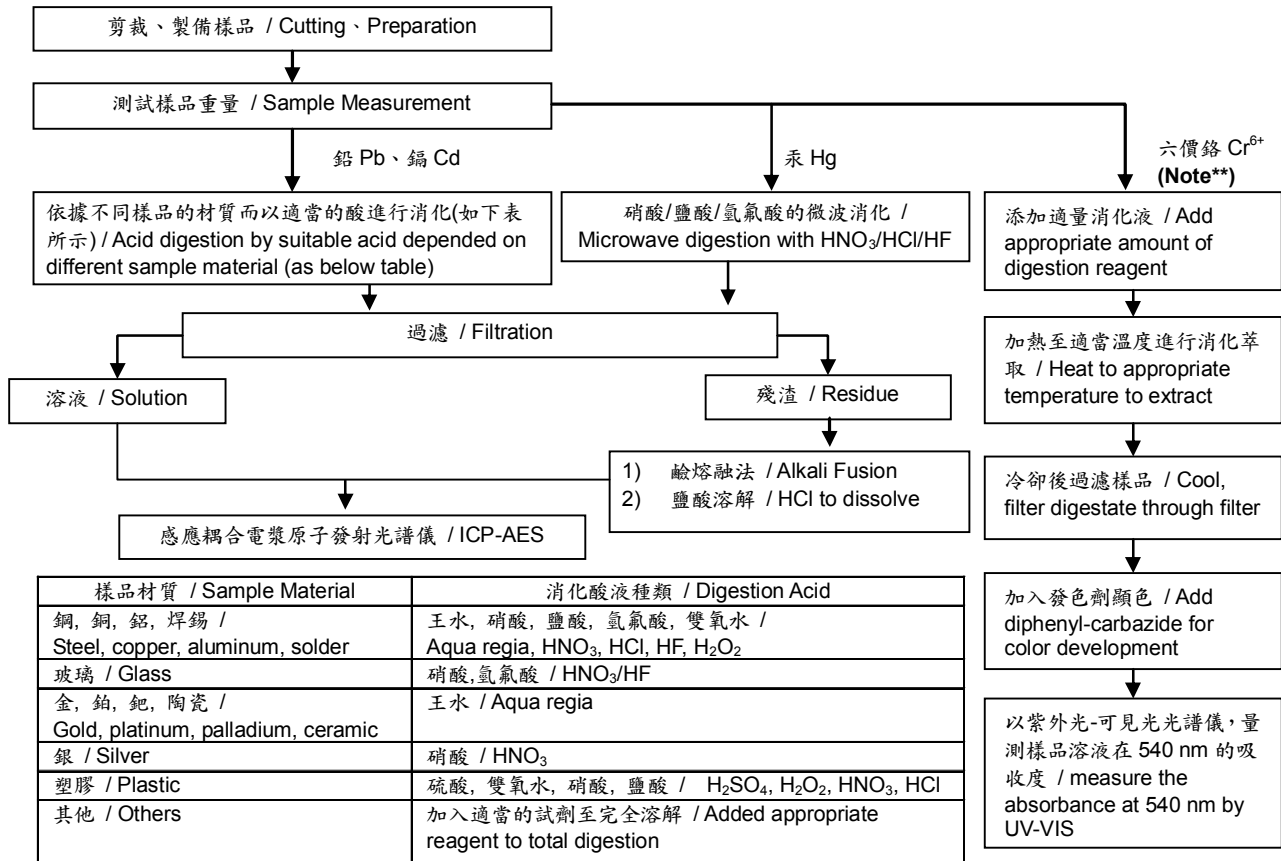
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy 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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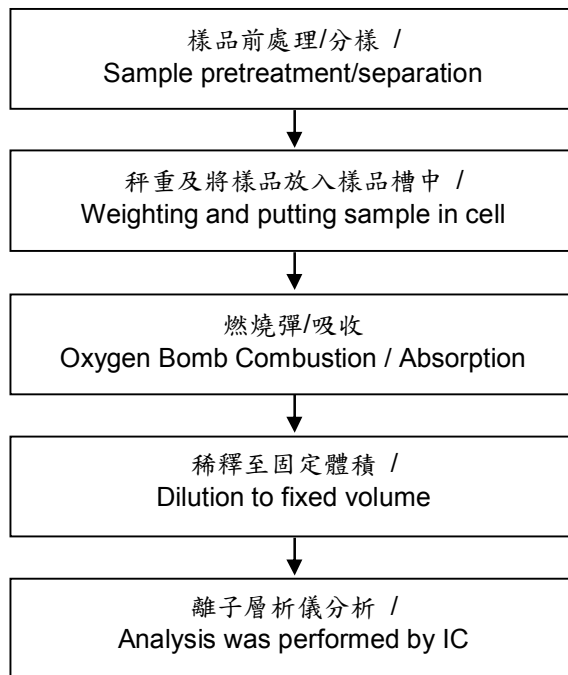
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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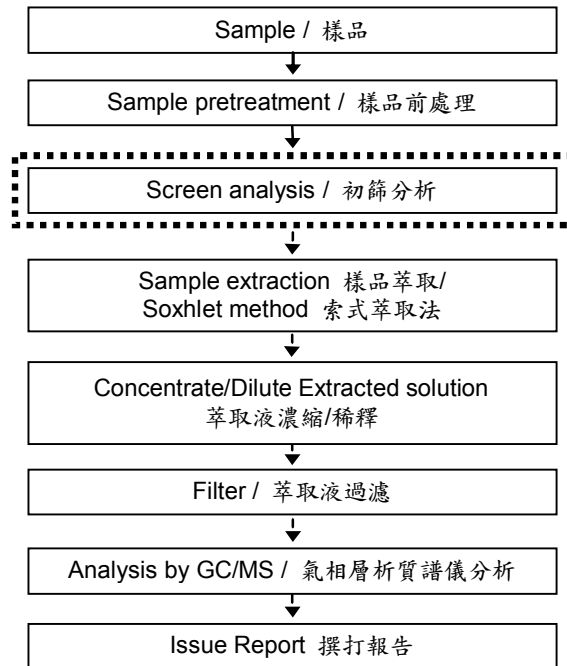
BOURNS, INC.

1200 COLUMBIA AVE. RIVERSIDE, CA 92507, USA



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

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
 - 測試負責人：張啓興 / Name of the person in charge of measurement: Troy 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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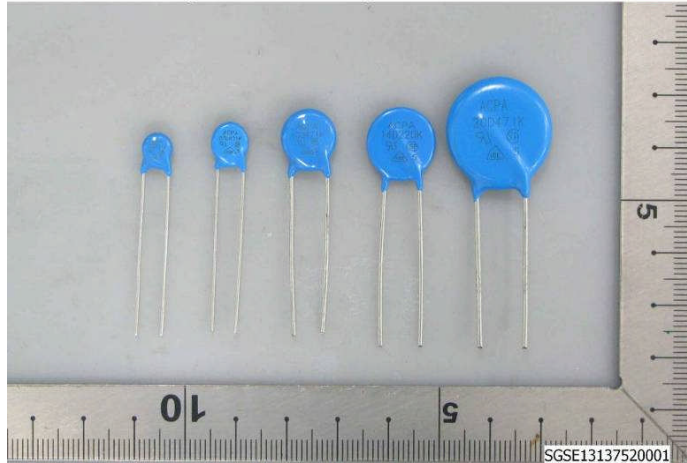
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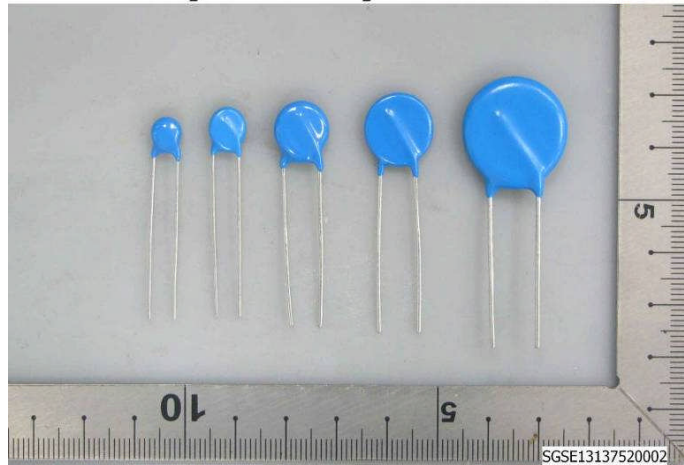


* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/13752



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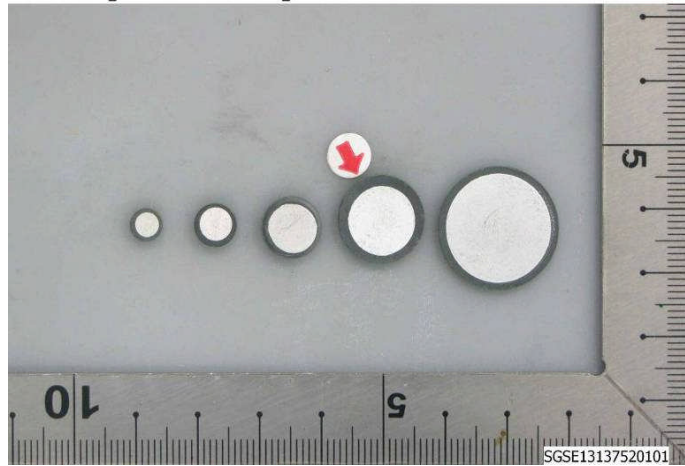
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CE/2013/13752 NO.1



CE/2013/13752 NO.2



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CE/2013/13752 NO.4



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**** 報告結尾 (End of Report) ****

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