

測試報告

號碼(No.) : CE/2015/A2471

日期(Date) : 2015/10/21

頁數(Page): 1 of 16

Test Report

美麗微半導體股份有限公司

FORMOSA MICROSEMI CO., LTD.

新北市土城區中央路三段208號5樓

5F., NO. 208, SEC. 3, ZHONGYANG RD., TUCHENG DIST., NEW TAIPEI CITY 23680,


TAIWAN



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 美麗微半導體股份有限公司 (FORMOSA MICROSEMI CO., LTD.)
樣品名稱(Sample Description) : GLASS SEALED ENVELOPED PRODUCTS (各項玻璃封裝產品)
樣品型號(Style/Item No.) : DO-34G / DO-35G / GLASS MICRO-MELF / GLASS QUADRO-MELF / GLASS MINI-MELF (SOD-80/LL-34G) / GLASS MELF (DL-41G) / DO-41G
收件日期(Sample Receiving Date) : 2015/10/14
測試期間(Testing Period) : 2015/10/14 TO 2015/10/21

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



Troy Chang / Manager - Tech
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 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)
 測試部位(PART NAME)No. 2 : 銀色金屬底材 (BASE MATERIAL OF SILVER COLORED METAL)
 測試部位(PART NAME)No. 3 : 本體混測 (MIXED ALL PARTS OF BODY)

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	酸洗脫鍍層, 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	---
	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	---	n. d.	n. d.
鉛 / Lead (Pb)	mg/kg	酸洗脫鍍層, 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2	160	---	---

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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
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	---	n. d.	322000
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層, 參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-4: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	---
	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	---	n. d.	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	**	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	---
	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.

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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
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No. : 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	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 method. Analysis was performed by GC/MS.	5	---	---	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg	參考 IEC 62321-8 (111/321/CD), 以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	---	---	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	---	---	n. d.
鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg		50	---	---	n. d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	---	---	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)	mg/kg		50	---	---	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0)	mg/kg		50	---	---	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1)	mg/kg		50	---	---	n. d.

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				No. 1	No. 2	No. 3	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 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.	
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		參考US EPA 3550C: 2007方 法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/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.		
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	10	---	---	n. d.		

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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
全氟辛酸 / PFOA (CAS No. : 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	---	---	n. d.
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.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	mg/kg		50	---	---	n. d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	---	---	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	---	---	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)

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8. For No. 3 : 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.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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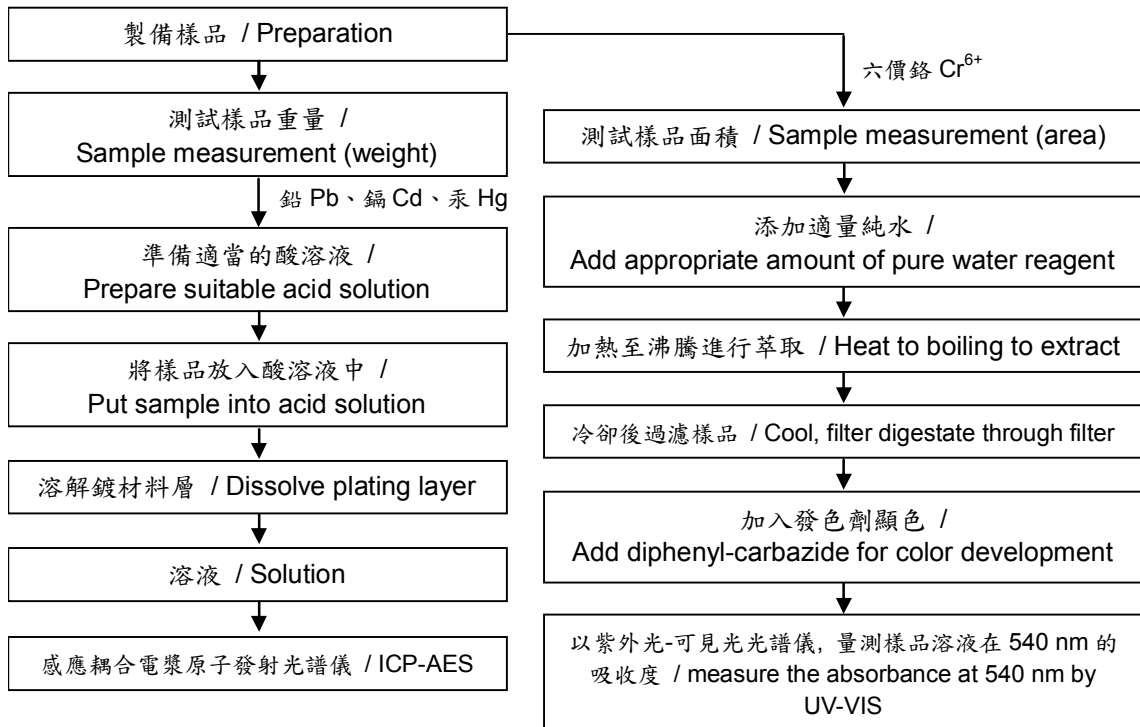
No. 1



根據以下的流程圖之條件, 樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員: 楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人: 張啟興 / Name of the person in charge of measurement: Troy Chang

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis



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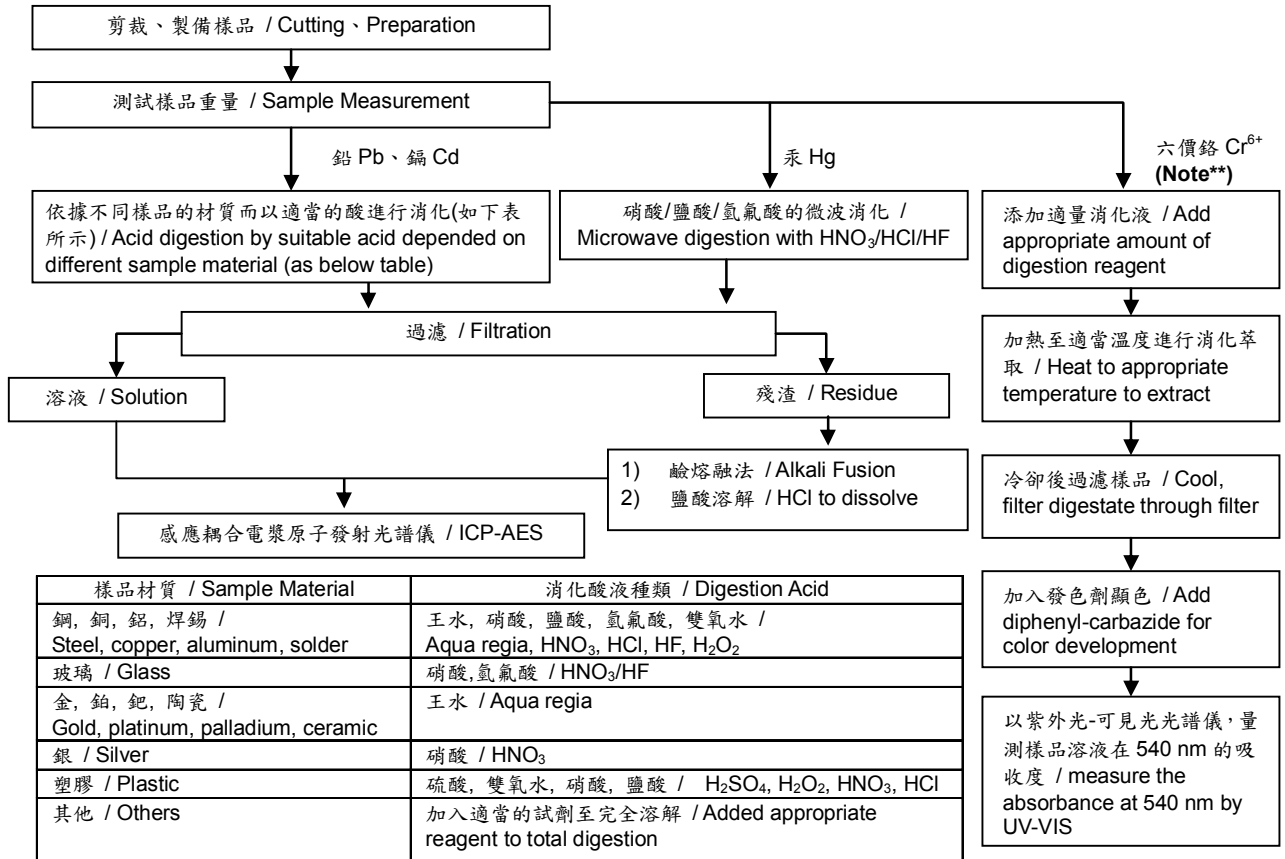
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No. 2



- 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：張啟興 / Name of the person in charge of measurement: Troy Chang



Note (For IEC 62321)**

- (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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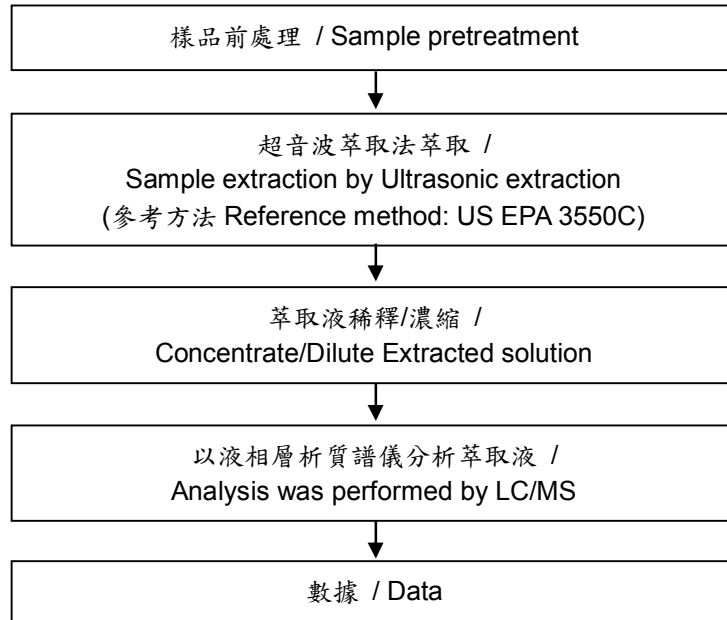
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

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



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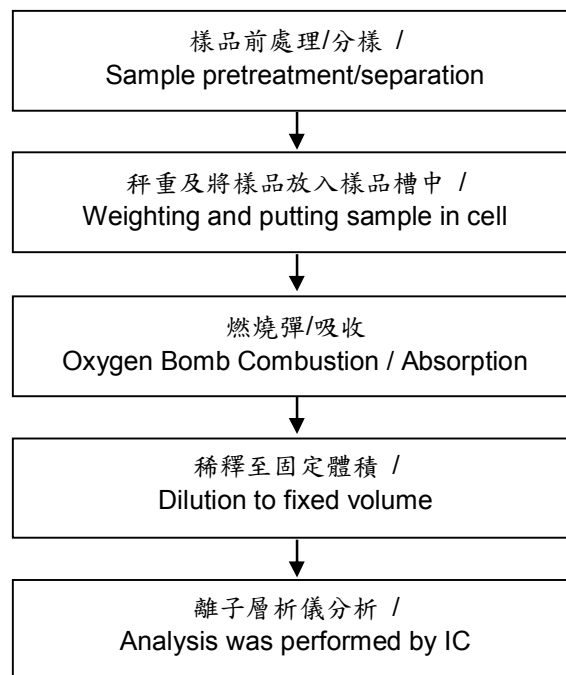
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang



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美麗微半導體股份有限公司

FORMOSA MICROSEMI CO., LTD.

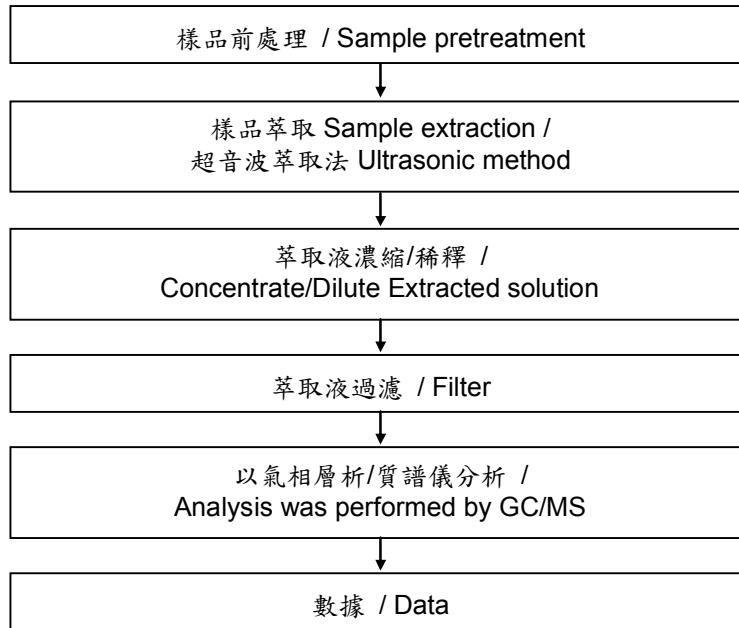
新北市土城區中央路三段208號5樓

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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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



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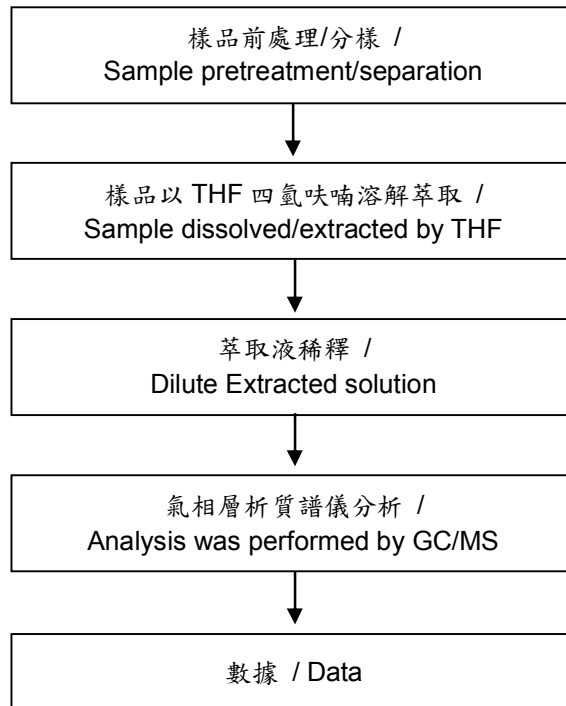
TAIWAN



可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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

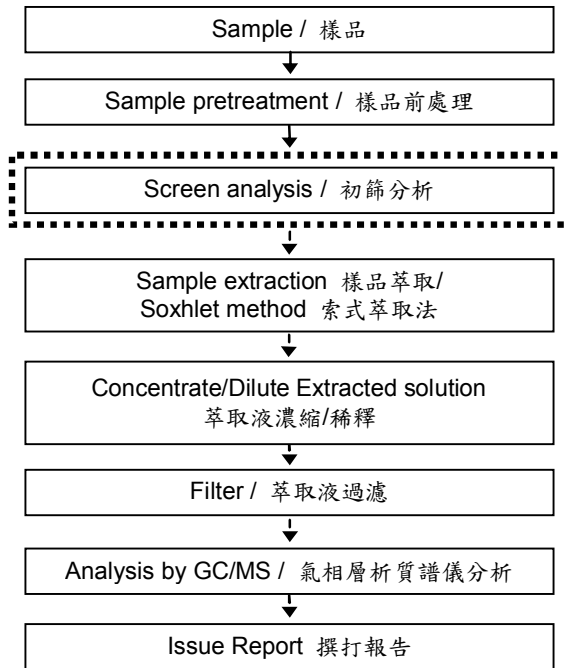
■ 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人：張啟興 / 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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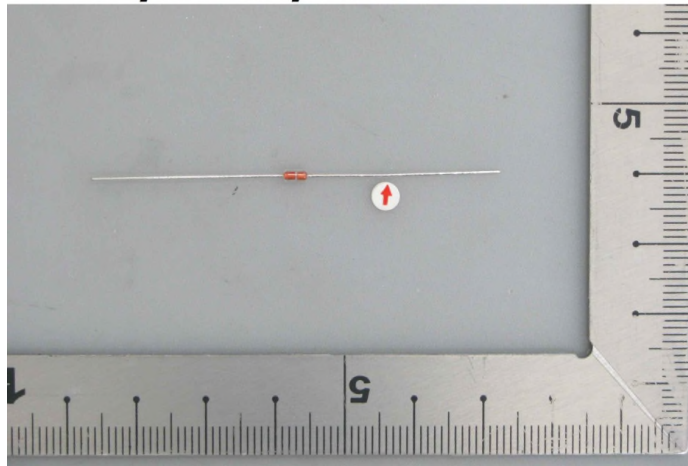
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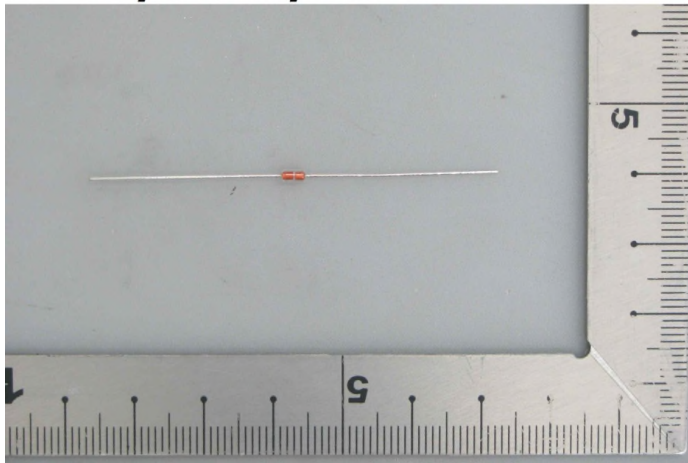


* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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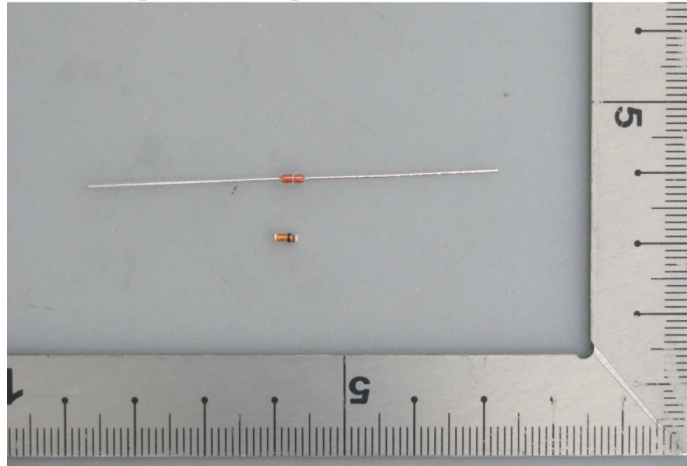
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CE/2015/A2471 NO.3



** 報告結尾 (End of Report) **

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