

號碼(No.): CE/2014/30864 日期(Date): 2014/03/12 頁數(Page): 1 of 10

# **Test Report**

旺宏電子股份有限公司

MACRONIX INTERNATIONAL CO., LTD.

新竹科學工業園區研新四路8號

NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

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) : 旺宏電子股份有限公司 (MACRONIX INTERNATIONAL CO., LTD.)

樣品名稱(Sample Description) : 電子產品 (IC) (MX AND KH)

樣品型號(Style/Item No.) : 48 CSP 收件日期(Sample Receiving Date) : 2014/03/05

測試期間(Testing Period) : 2014/03/05 TO 2014/03/12

\_\_\_\_\_\_\_

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)

測試部位(PART NAME)No.1 : 黑色本體 (BLACK BODY)

測試部位(PART NAME)No.2 : 銀色金屬 (SILVER COLORED METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	
				No.1	No.2
鎬 / Cadmium (Cd)	mg/kg	参考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	参考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.	52
汞 / Mercury (Hg)	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)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測./ With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	
	**	参考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
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	

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新竹科學工業園區研新四路8號

NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	
				No.1	No.2
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117- 84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84- 69-5)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二己酯 / DNHP (Di-n- hexyl phthalate) (CAS No.: 84-75- 3)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鹵素 / Halogen					
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	70	
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN	50	n.d.	
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	50	n.d.	
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.	

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NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	
				No.1	No.2
多溴聯苯總和 / Sum of PBBs		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.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	-		5	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.
△溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.
ヒ溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.
∼溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.

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旺宏電子股份有限公司

新竹科學工業園區研新四路8號

MACRONIX INTERNATIONAL CO., LTD.

NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

#### 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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## **Test Report**

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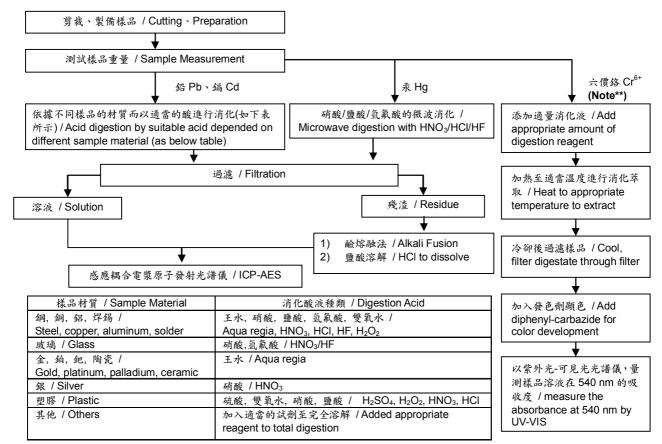
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新竹科學工業園區研新四路8號

NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價鉻測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (  $Cr^{6+}$  test method excluded )
- 2) 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 测試負責人:張啓興 / 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℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (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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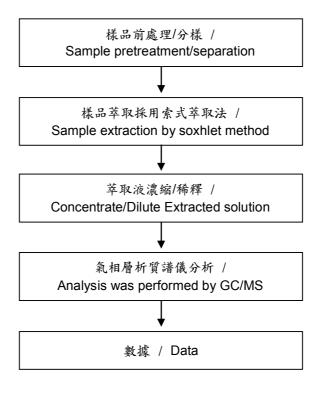
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NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

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

- 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



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旺宏電子股份有限公司

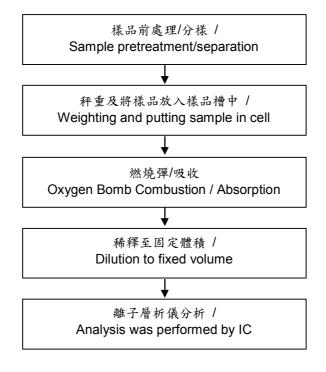
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NO. 8, CREATION ROAD IV, SCIENCE PARK, HSIN-CHU, TAIWAN, R.O.C.

#### 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:張啓興 / Name of the person in charge of measurement: Troy Chang



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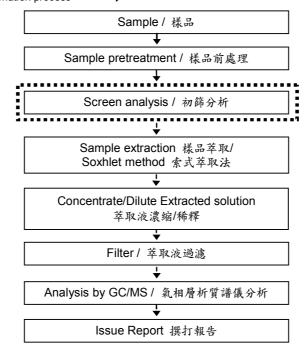
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#### 

#### 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:張啓興 / Name of the person in charge of measurement: Troy Chang

確認程序 / Confirmation process - - - →



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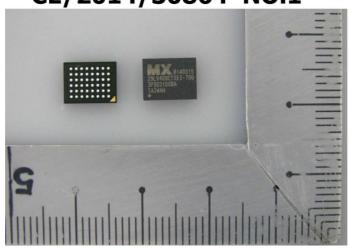
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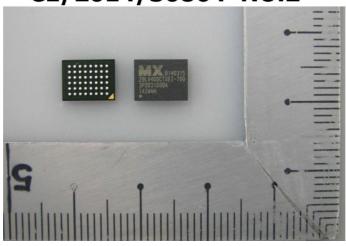
\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/30864 NO.1



CE/2014/30864 NO.2



\*\* 報告結尾 (End of Report) \*\*

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