

## 測試報告

## Test Report

號碼(No.) : CE/2020/10036

日期(Date) : 2020/01/03

頁數(Page): 1 of 13

欣興電子股份有限公司

UNIMICRON TECHNOLOGY CORPORATION

桃園市龜山區龜山工業區山鶯路179號

NO. 179, SHAN YING ROAD, KWEI SHAN IND., PARK, TAOYUAN CITY 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) : 欣興電子股份有限公司 (UNIMICRON TECHNOLOGY CORPORATION)  
樣品名稱(Sample Description) : Cu PLATING LAYER  
收件日期(Sample Receiving Date) : 2020/01/02  
測試期間(Testing Period) : 2020/01/02 to 2020/01/03

### 測試需求(Test Requested) :

- (1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚、DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

  
Troy Chang / Manager - Tech  
Signed for and 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 : 銅色片狀鍍層 (PLATING LAYER OF COPPER COLORED SHEET)

測試部位(PART NAME)No. 2 : 銅色片狀(含鍍層) (COPPER COLORED SHEET (INCLUDING THE PLATING LAYER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	
				No. 1	No. 2
鎘 / Cadmium (Cd)	mg/kg	酸洗脫鍍層，參考IEC 62321-5 (2013)，以感應耦合電漿發射光譜儀檢測。 / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-OES.	2	n. d.	---
鉛 / Lead (Pb)	mg/kg		2	n. d.	---
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層，參考IEC 62321-4:2013+AMD1:2017，以感應耦合電漿發射光譜儀檢測。 / IEC 62321-4:2013+AMD1:2017 application of modified digestion by surface etching and performed by ICP-OES.	2	n. d.	---
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm <sup>2</sup>	參考IEC 62321-7-1 (2015)，以UV-VIS檢測。 / With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	n. d.	---
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	µg/m <sup>2</sup>	參考CEN/TS 15968 (2010)，以液相層析/質譜儀檢測。 / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	1	n. d.	---
全氟辛酸 / PFOA (CAS No. : 335-67-1)	µg/m <sup>2</sup>		1	n. d.	---
銻 / Antimony (Sb)	mg/kg	參考US EPA 3050B (1996)，以感應耦合電漿發射光譜儀檢測。 / With reference to US EPA 3050B (1996). Analysis was performed by ICP-OES.	2	n. d.	---
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3050B (1996)，以感應耦合電漿發射光譜儀檢測。 / With reference to US EPA 3050B (1996). Analysis was performed by ICP-OES.	2	n. d.	---

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)		
				No. 1	No. 2	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015), 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IEC 62321 (2008), 以氣相層析 / 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/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.		
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 ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No. : 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	5	---	n. d.		

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	
				No. 1	No. 2
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg	參考IEC 62321-8 (2017), 以氣相層析 / 質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	---	n. d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg		50	---	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	---	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No. : 84-69- 5)	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.
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.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No. : 117-84-0)	mg/kg		50	---	n. d.
<b>鹵素 / Halogen</b>					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg	參考BS EN 14582 (2016), 以離子層析 儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	---	252
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.

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## 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n. d. = Not Detected (未檢出)
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測項目)
6. (#2) =
  - a. 當六價鉻結果大於 $0.13 \mu\text{g}/\text{cm}^2$ ，表示樣品表層含有六價鉻。 / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than  $0.13 \mu\text{g}/\text{cm}^2$ . The sample coating is considered to contain Cr(VI).
  - b. 當六價鉻結果為n.d. (濃度小於 $0.10 \mu\text{g}/\text{cm}^2$ )，表示表層不含六價鉻。 / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than  $0.10 \mu\text{g}/\text{cm}^2$ ). The coating is considered a non-Cr(VI) based coating
  - c. 當六價鉻結果介於  $0.10$  及  $0.13 \mu\text{g}/\text{cm}^2$  時，無法確定塗層是否含有六價鉻。 / The result between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  is considered to be inconclusive - unavoidable coating variations may influence the determination.

## PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 2019/1021

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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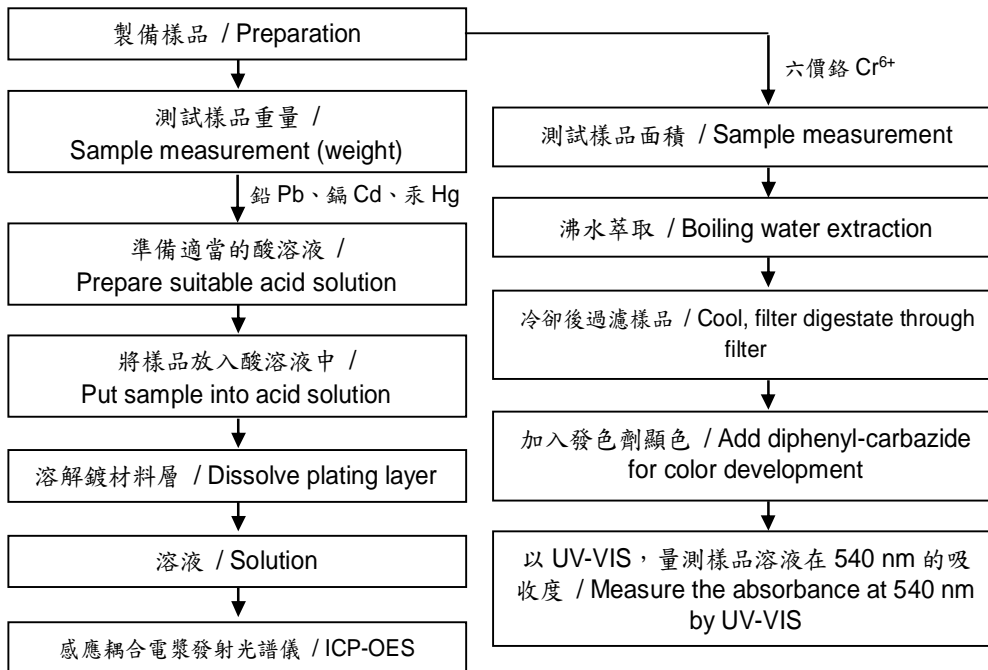
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根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

- 測試人員：陳思臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

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



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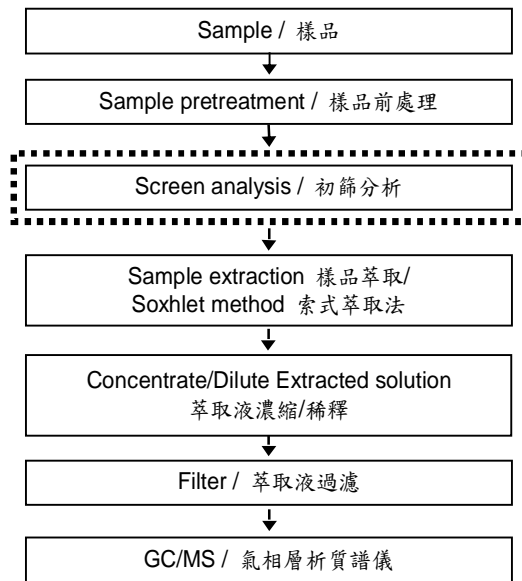
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: 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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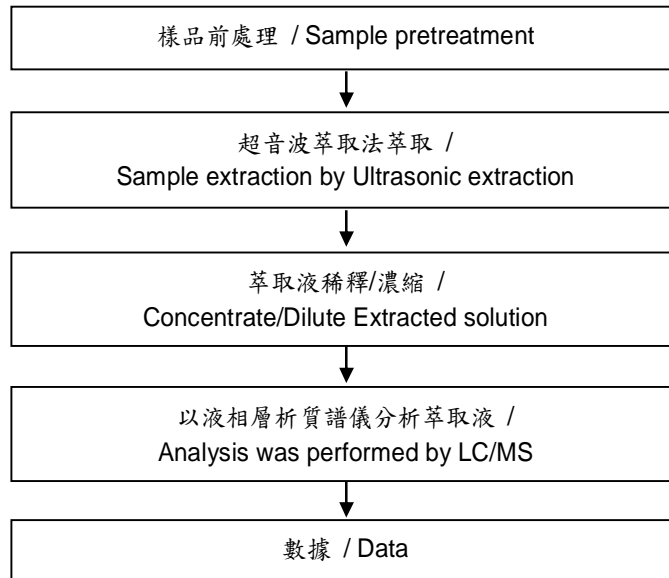
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### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang





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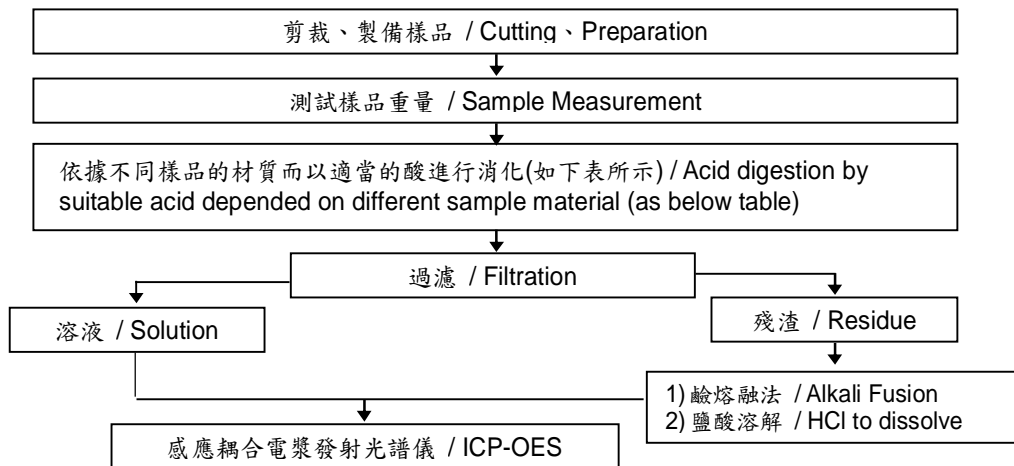
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根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-OES 分析的消化流程圖  
(Flow Chart of digestion for the elements analysis performed by ICP-OES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸,氫氟酸 / HNO <sub>3</sub> /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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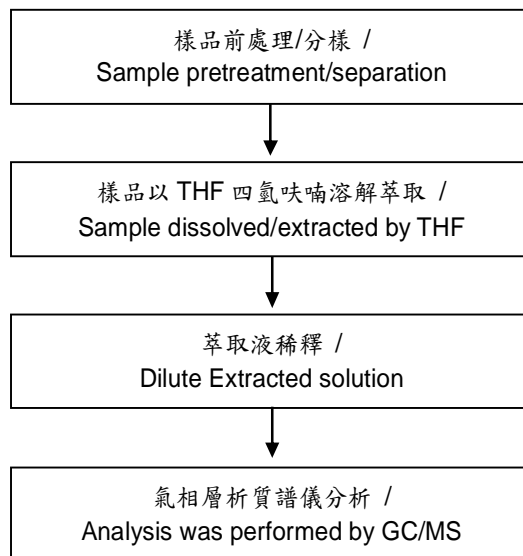
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor : Troy Chang

#### 【測試方法/Test method: IEC 62321-8】



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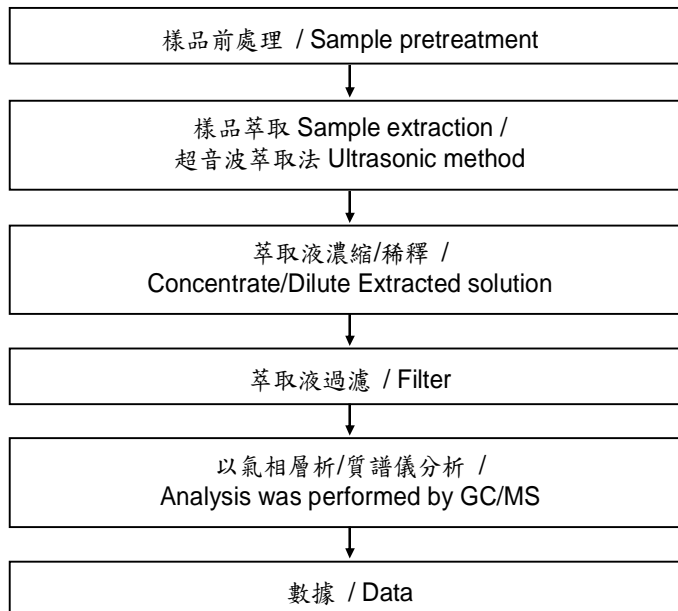
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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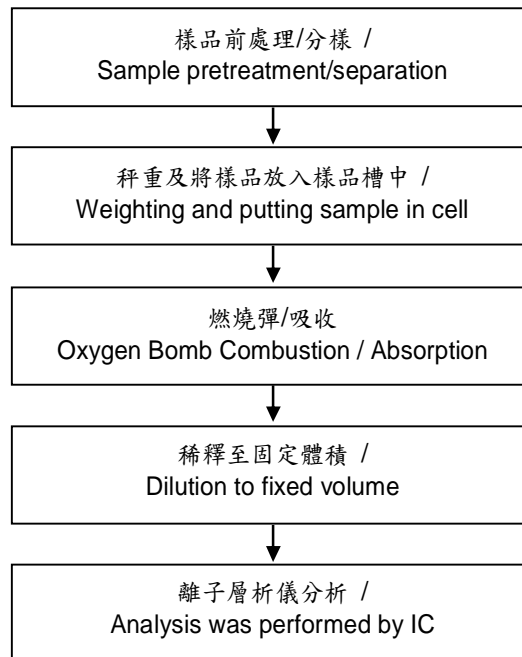
UNIMICRON TECHNOLOGY CORPORATION

桃園市龜山區龜山工業區山鶯路179號

NO. 179, SHAN YING ROAD, KWEI SHAN IND., PARK, TAOYUAN CITY TAIWAN, R. O. C.

### 鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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## 測試報告

## Test Report

號碼(No.) : CE/2020/10036

日期(Date) : 2020/01/03

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UNIMICRON TECHNOLOGY CORPORATION

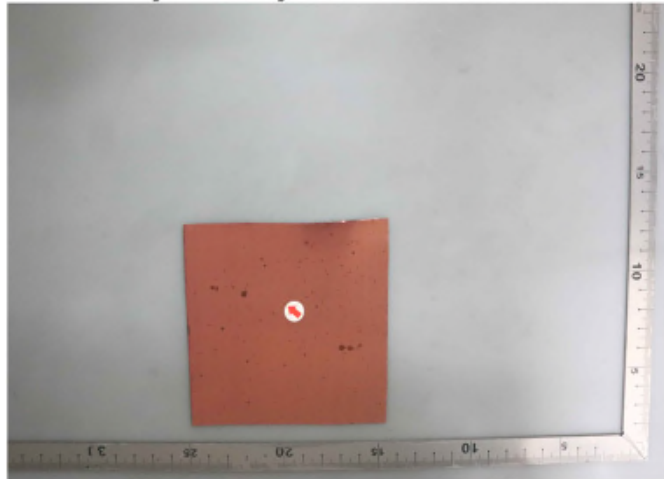
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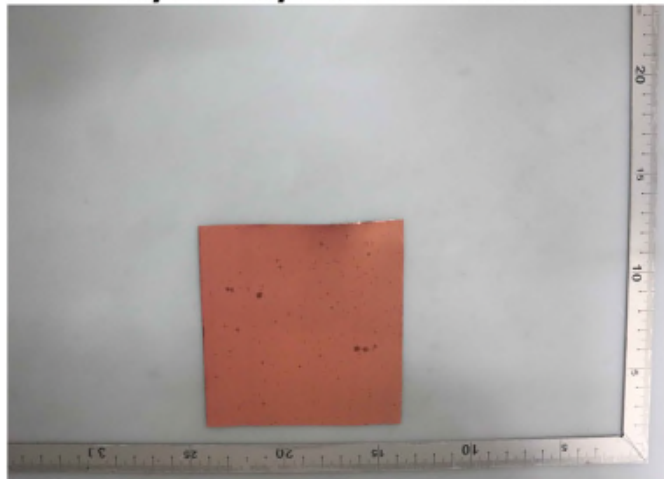
\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 \*

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

### CE/2020/10036 NO.1



### CE/2020/10036 NO.2



\*\* 報告結尾 (End of Report) \*\*

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