

Test Report

號碼(No.): ETR22503266M01 日期(I

日期(Date): 27-Jun-2022

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欣興電子股份有限公司 (UNIMICRON TECHNOLOGY CORP.)

桃園市蘆竹區南山路三段470巷21號 (NO.21, LN. 470, SEC.2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY(338) TAIWAN, R.O.C.)

以下測試樣品係由申請廠商所提供及 applicant as): 送樣廠商(Sample Submitted By) 樣品名稱(Sample Name) 樣品型號(Style/Item No.)	及確認 : : :	(The following sample(s) was/were submitted and identified by the 欣興電子股份有限公司 (UNIMICRON TECHNOLOGY CORP.) PCB板 化金
业件日(Sample Receiving Date) 測試期間(Testing Period)	:	19-May-2022 19-May-2022 to 25-May-2022
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).) 依據客戶指定,測試鹵素-氯、溴。(As specified by client, to test Halogen- Chlorine, Bromine in the submitted sample.)
測試結果(Test Results) : 結 論(Conclusion) :	(1)	請參閱下一頁 (Please refer to following pages.) 根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chand / Department Manage Signed for and on behalf SĞS TAIWAN LTD. Chemical Laboratory - Taipei



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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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測試部位敘述 (Test Part Description)

No.1 : 黑色印刷電路板 (BLACK PCB)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	100
43-9)	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	1000
	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013 + AMD1: 2017,	mg/kg	2	n.d.	1000
97-6)	以感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+ AMD1:				
	2017, analysis was performed by ICP-				
→ @ஜ CuAU) (Use set Clauses) use	OES.)		0		1000
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017 · 以紫外光-可見	mg/kg	8	n.d.	1000
Cr(VI)) (CAS No.: 18540-29-9)	光分光光度計分析。(With reference to				
	IEC 62321-7-2: 2017, analysis was				
	performed by UV-VIS.)	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)	参考IEC 62321-6: 2015 · 以氣相層析儀/質 - 譜儀分析。(With reference to IEC 62321- 6: 2015, analysis was performed by	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)	GC/MS.)	mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)	1	mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)	1	mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)	1	mg/kg	-	n.d.	1000

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
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)	▲ 参考IEC 62321-6: 2015 · 以氣相層析儀/質		5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)			5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)	警告EC 02321-0.2013,以氣伯膚// 展/員 譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)	GC/MS.)	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.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質 譜儀分析。(With reference to IEC 62321-	mg/kg	50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7)					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2)					
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS					
No.: 117-81-7)					
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)					
氲 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	<u> おおちて FNI 1 4F00- 2016 NI動フロビビハ</u>	mg/kg	50	130	-
15-1)	參考BS EN 14582: 2016 · 以離子層析儀分				
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	析 \circ (With reference to BS EN 14582:	mg/kg	50	n.d.	-
32-2)	2016, analysis was performed by IC.)	5 5			

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 除非另有說明·參照ILAC-G8:09/2019·採用簡單二元(w=0)允收規則進行符合性判定;根據此規則·符合性結果之判 定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)
- 6. 本報告為 ETR22503266 之異動報告。(This is the additional test report of ETR22503266.)

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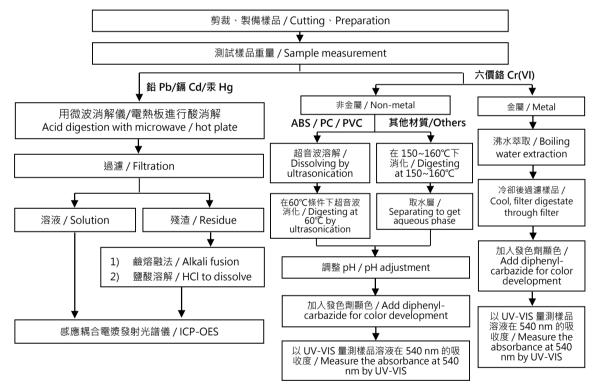
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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)



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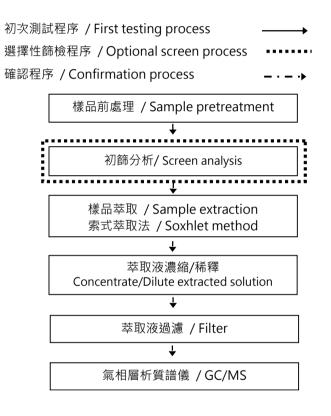
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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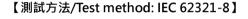
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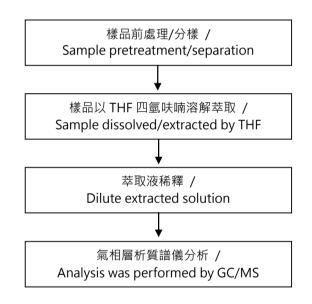
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可塑劑分析流程圖 / Analytical flow chart - Phthalate





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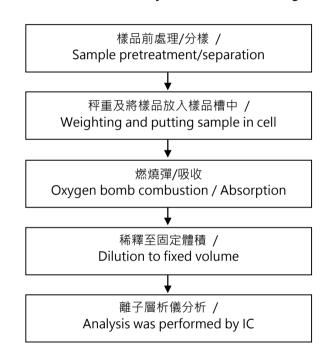
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鹵素分析流程圖 / Analytical flow chart - Halogen

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** 報告結尾 (End of Report) **

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