

# **Test Report**

號碼(No.): CE/2012/90903 日期(Date): 2012/09/14 頁數(Page): 1 of 19

億光電子工業股份有限公司 EVERLIGHT ELECTRONICS CO., LTD. 新北市樹林區中華路6-8號

NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN

#### 以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

BASIC INFORMATION		
Type of Product	SMD DISPLAY	
Supplier Company Name	EVERLIGHT	
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN	
Tel/Fax/Email	TEL:886-2685-6688 EXT:1160	
	FAX:886-2685-6898	
	E-MAIL: meelin@everlight.com	
Contact Person	LIN HSIAO HUA	
EVERLIGHT REPORT NO	EVERLIGHT-SMD DISPLAY SERIES, Sampling Product :	
	SS406USRWA/S530-A2/S290-SGS-14/09/2012	
PRODUCT INFORMATION		
Product/component Sample description	PANEL DISPLAY COMPONENT	
Quantity (numbers or weight)	0.7049g	
EVERLIGHT P/N	SMD DISPLAY SERIES, Sampling Product : SS406USRWA/S530-A2/S290	
Product Lot No	ZS12080710	
Country of Origin	CHINA	
TEST INFORMATION		
Digital Photo(s) of sample(s) after being prepared	JPG EMBEDDED IN EACH REPORT	
Sample preparation	CUTTING	
Test Method	Cd , Pb , Hg , Cr(VI), PBB/PBDE - IEC 62321, Halogen-BS EN 14582	
PQL and/or MDL	Cd , Pb , Hg: < 2 mg/kg; PBB/PBDE: < 5 mg/kg; Halogen: 50 mg/kg	
Name of Analyzer	Cd , Pb , Hg, Cr(VI): Climbgreat Yang;	
	PBB/PBDE: Roman Wong; Halogen: Rita Chen	

收件日期(Sample Receiving Date) 2012/09/05

測試期間(Testing 2012/09/05 TO 2012/09/14

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

下一頁 (Please refer to next pages).

Chenyu Kung /

SGS TAIWAN LTD.

Signed for and on be

Chemical Laboratory - Taipei



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億光電子工業股份有限公司 EVERLIGHT ELECTRONICS CO., LTD. 新北市樹林區中華路6-8號

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結論(Conclusion)

根據客户所提供的樣品, 其多苯環芳香族化合物的測試結果符合德國ZLS的ZEK 01.4-08及 其相關修訂文件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)

#### 測試結果(Test Results)

測試部位(PART NAME)No.1 白色塑膠及其上灰色印刷、膠 (WHITE PLASTIC WITH GRAY PRINTED AND GLUE)

測試部位(PART NAME)No.2 黑色電路板及其上所有零件 (BLACK PCB AND ALL COMPONENTS ON IT)

測試項目	單位	· ·		結果 (Result)	
(Test Items)	(Unit)	(Method)	(MDL)	No.1	No.2
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法,以感應耦合電	2	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	漿原子發射光譜儀檢測. / With   reference to IEC 62321: 2008 and	2	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	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.	n.d.
绨 / Antimony (Sb)	mg/kg	参考US EPA 3050B方法,以感應耦合電漿原子發射光譜儀檢測錦含量./With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考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.	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限値 (MDL)	結果 (Result)	
		(Method)		No.1	No.2
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl	%	參考EN 14372, 以氣相層析/質譜儀檢測	0.01	n.d.	n.d.
phthalate) (CAS No.: 26761-40-0)		之. / With reference to EN 14372.			
		Analysis was performed by GC/MS.			
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl	%	參考EN 14372, 以氣相層析/質譜儀檢測	0.003	n.d.	n.d.
phthalate) (CAS No.: 84-69-5)		之. / With reference to EN 14372.			
		Analysis was performed by GC/MS.			
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl	%	參考EN 14372, 以氣相層析/質譜儀檢測	0.003	n.d.	n.d.
phthalate) (CAS No.: 84-75-3)		之. / With reference to EN 14372.			
		Analysis was performed by GC/MS.			
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP	%	參考EN 14372, 以氣相層析/質譜儀檢測	0.003	n.d.	n.d.
(Bis (2-methoxyethyl) phthalate) (CAS		之. / With reference to EN 14372.			
No.: 117-82-8)		Analysis was performed by GC/MS.			
鄰苯二甲酸二戊酯 / DPP (Di-pentyl	%	參考EN 14372, 以氣相層析/質譜儀檢測	0.003	n.d.	n.d.
phthalate) (CAS No.: 131-18-0)		之. / With reference to EN 14372.			
		Analysis was performed by GC/MS.			
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS	mg/kg		50	n.d.	605
No.: 14762-94-8)					
鹵素 (氣) / Halogen-Chlorine (C1) (CAS	mg/kg	▼   參考BS EN 14582:2007,以離子層析儀分	50	n.d.	229
No.: 22537-15-1)	0 0	析. / With reference to BS EN			
鹵素(溴)/ Halogen-Bromine (Br) (CAS	mg/kg	14582:2007. Analysis was performed by	50	n.d.	n.d.
No.: 10097-32-2)		IC.			
鹵素 (碘) / Halogen-Iodine (I) (CAS	mg/kg	1	50	n.d.	n.d.
No.: 14362-44-8)	g / r.g		30	11 • U •	n.u.

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測試項目	單位	測試方法	方法偵測 極限値	結果 (1	Result)
(Test Items)	(Unit)	(Method)	(MDL)	No.1	No.2
多苯環芳香族化合物 / Polynuclear					
Aromatic Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	n.d.
苊烯 / Acenaphthylene (CAS No.: 208-96-8)	mg/kg		0.2	n.d.	n.d.
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	n.d.
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	n.d.
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg		0.2	n.d.	n.d.
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	n.d.
苯駢菲 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	n.d.
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n.d.	n.d.
Chrysene (CAS No.: 218-01-9)	mg/kg	參考ZLS standard ZEK 01.4-08方法,以	0.2	n.d.	n.d.
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	氣相層析/質譜儀檢測. / With reference to ZLS standard ZEK 01.4-08 method.	0.2	n.d.	n.d.
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	mg/kg	Analysis was performed by GC/MS.	0.2	n.d.	n.d.
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg		0.2	n.d.	n.d.
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	n.d.
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n.d.	n.d.
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n.d.	n.d.
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n.d.	n.d.
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	n.d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192- 97-2)	mg/kg		0.2	n.d.	n.d.
多苯環芳香族化合物18項總和 / Sum of 18 PAHs	mg/kg		-	n.d.	n.d.

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測試項目	單位	測試方法	極限值		(Result)	
(Test Items)	(Unit)	(Method)	(MDL)	No.1	No.2	
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.	n.d.	
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	
九溴聯苯 / Nonabromobiphenyl	mg/kg	# trpg good 0000 511	5	n.d.	n.d.	
十溴聯苯 / Decabromobiphenyl	mg/kg	參考IEC 62321: 2008方法,以氣相層析/	5	n.d.	n.d.	
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	02321: 2008 and performed by GC/MS.	5	n.d.	n.d.	
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	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)

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#### PAHs 參考資料 (Reference information):

依據ZEK 01.4-08之要求: 產品中最大值為

(Requirement of ZEK 01.4-08: Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸), 以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料. (Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with
	< 36 months with	skin for longer than	foreseeable contact to
	intended skin	30 seconds (long-term	skin for less than 30
	contact.)	skin contact).)	seconds (short-term
			skin contact).)
苯駢(a)芘	ZMDI (Z0 0)**	1	9.0
Benzo(a)pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(mg/kg)*			

#### 注意(Remark):

\* = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值.

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

\*\* = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質是否適用於與食品或與口腔 黏膜接觸,並依照EN 1186 ff. and § 64 LFBG 80.30-1方法,針對特定PAH的遷移測試進行測試。遷移測試的結論需依 照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

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#### PFOS参考資訊(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1µg/m2。

(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  $1\mu g/m^2$ .)



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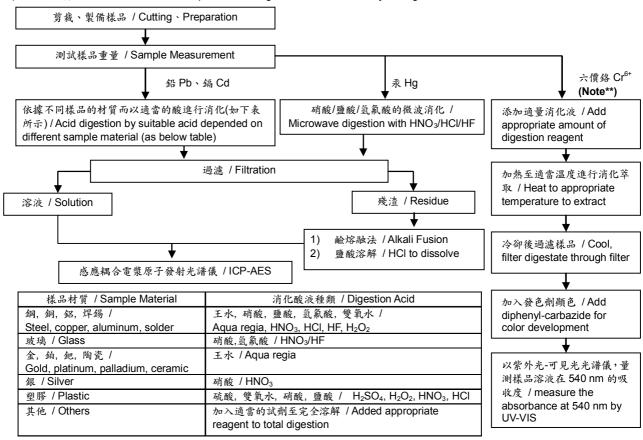
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新北市樹林區中華路6-8號

NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN

- 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)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 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℃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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# **Test Report**

億光電子工業股份有限公司

EVERLIGHT ELECTRONICS CO., LTD.

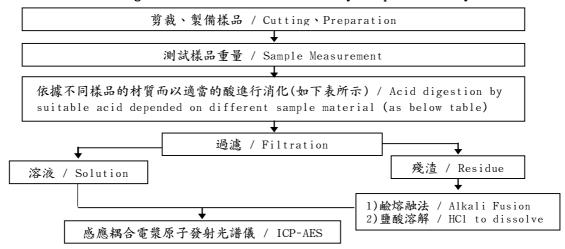
新北市樹林區中華路6-8號

NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN

- 1) 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.
- 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

#### 元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 /
	Aqua regia, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO3
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1
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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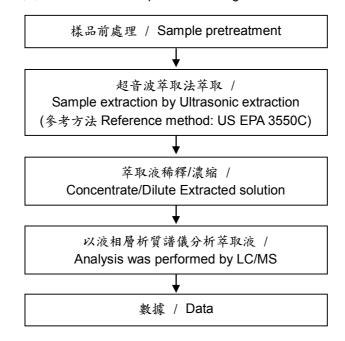
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## 全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

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



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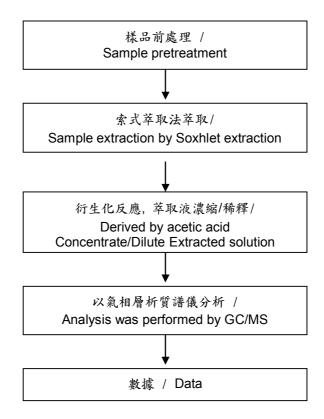
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測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

四溴雙酚 A 分析流程圖 / TBBP-A analytical flow chart

測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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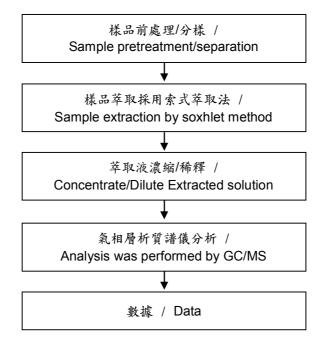
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#### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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



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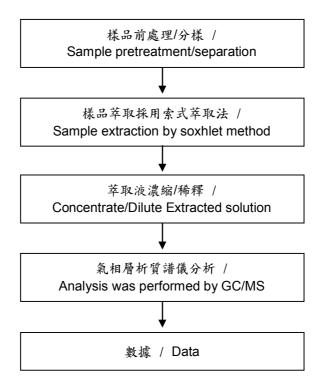
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

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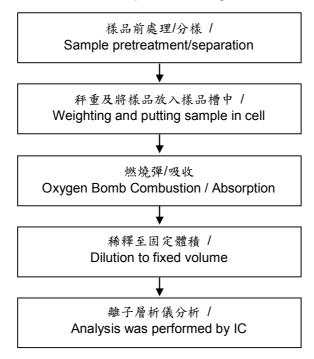
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#### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 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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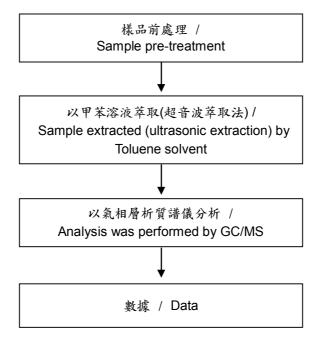
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#### 多苯環芳香族化合物分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 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



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# **Test Report**

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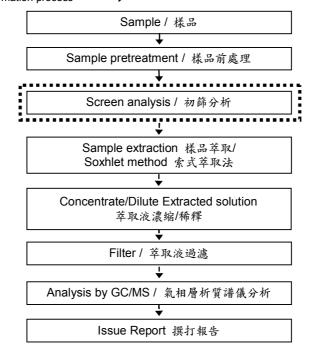
#### 

#### 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

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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# **Test Report**

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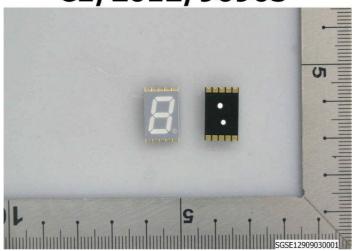
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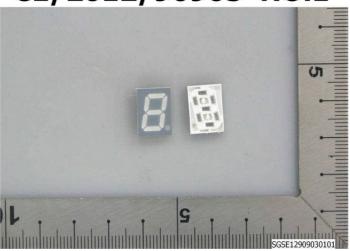
\* 照片中如有箭頭標示,則表示爲實際檢測之樣品/部位. \*

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

CE/2012/90903



CE/2012/90903 NO.1



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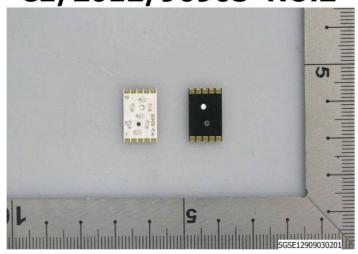
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