



測試報告

Test Report

號碼(No.): ETR22301193

日期(Date): 15-Mar-2022

頁數(Page): 1 of 17

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) :

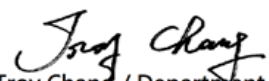
| BASIC INFORMATION | |
|--------------------------------------|---------------------------------------------------------------------------------------------|
| Type of Product | HIGH POWER LED_ELCS14B |
| Supplier Company Name | EVERLIGHT |
| Address | NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN |
| Tel / Fax / Email | TEL:886-2685-6688 |
| | FAX:886-2685-6699 |
| | E-MAIL: lindawang@everlight.com |
| Contact Person | LI LING WANG |
| EVERLIGHT REPORT NO | EVERLIGHT-ELCS14B SERIES Sampling Product : ELCS14B-KB4148J7J8283710-FCZ-SGS-15-Mar-2022 |
| PRODUCT INFORMATION | |
| Product/component Sample description | Automotive exterior lighting |
| Quantity (numbers or weight) | 0.0016 g |
| EVERLIGHT P/N | ELCS14B SERIES Sampling Product : ELCS14B-KB4148J7J8283710-FCZ |
| Product Lot No | Y220124A4102D76NEWOT |
| Country of Origin | TAIWAN |
| TEST INFORMATION | |
| Sample preparation | CUTTING |
| Test Method | RoHS: IEC 62321, Halogen: BS EN 14582 |
| MDL | Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg |


送樣廠商(Sample Submitted By) : 億光電子工業股份有限公司 (EVERLIGHT ELECTRONICS CO., LTD.)

收件日(Sample Receiving Date) : 03-Mar-2022

測試期間(Testing Period) : 03-Mar-2022 to 15-Mar-2022

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


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 64091A8B

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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) 依據客戶指定，測試 PAHs 及其他測項。(As specified by client, to test PAHs and other item(s).)

結論(Conclusion) :

- (1) 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.)
- (2) 根據客戶所提供的樣品，多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs第3類「其它產品」之限值要求。(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3)「Other consumer products」 as set by German Committee on Product Safety (AfPS) GS PAHs.)

測試部位敘述 (Test Part Description)

No.1 : HIGH POWER LED_ELCS14B

測試結果 (Test Results)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) | 限值 (Limit) |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|-----|----------------|---------------|
| | | | | No.1 | |
| 鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9) | 參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 100 |
| 鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1) | | mg/kg | 2 | n.d. | 1000 |

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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)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) | 限值 (Limit) |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------|------|----------------|---------------|
| | | | | No.1 | |
| 汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6) | 參考IEC 62321-4: 2013+ AMD1: 2017 · 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-OES.) | mg/kg | 2 | n.d. | 1000 |
| 六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9) | 參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.) | mg/kg | 8 | n.d. | 1000 |
| 一溴聯苯 (Monobromobiphenyl) | 參考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 GC/MS.) | 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. | - |
| 多溴聯苯總和 (Sum of PBBs) | | mg/kg | - | n.d. | 1000 |
| 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. | - | |
| 多溴聯苯醚總和 (Sum of PBDEs) | mg/kg | - | n.d. | 1000 | |

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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)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) | 限值 (Limit) |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|-----|----------------|---------------|
| | | | | No.1 | |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二正戊酯 (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8) | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |

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| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) | 限值 (Limit) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|------|----------------|---------------|
| | | | | No.1 | |
| 六溴環十二烷及所有主要被辨別出的異構物 (HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | 參考IEC 62321: 2008 · 以氣相層析儀/質譜儀 分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | - |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8) | 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.) | mg/kg | 50 | 169 | - |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | | mg/kg | 50 | n.d. | - |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | | mg/kg | 50 | n.d. | - |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8) | | mg/kg | 50 | n.d. | - |
| 全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | 參考CEN/TS 15968: 2010 · 以液相層析串聯質 譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| 全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts) | 參考CEN/TS 15968: 2010 · 以液相層析串聯質 譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| 鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7) | 參考US EPA 3052: 1996 · 以感應耦合電漿發 射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP- OES.) | mg/kg | 2 | n.d. | - |

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|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------|-----|----------------|---------------|
| | | | | No.1 | |
| 多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs) | | | | | |
| 苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8) | 參考AfPS GS 2019:01 PAK · 以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.) | mg/kg | 0.2 | n.d. | Δ |
| 苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2) | | mg/kg | 0.2 | n.d. | Δ |
| 苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3) | | mg/kg | 0.2 | n.d. | Δ |
| 苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2) | | mg/kg | 0.2 | n.d. | Δ |
| 苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3) | | mg/kg | 0.2 | n.d. | Δ |
| 苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9) | | mg/kg | 0.2 | n.d. | Δ |
| 蒽 (Chrysene) (CAS No.: 218-01-9) | | mg/kg | 0.2 | n.d. | Δ |
| 二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3) | | mg/kg | 0.2 | n.d. | Δ |
| 苯駢芘 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2) | | mg/kg | 0.2 | n.d. | Δ |
| 節酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5) | | mg/kg | 0.2 | n.d. | Δ |
| 蒽 (Anthracene) (CAS No.: 120-12-7) | | mg/kg | 0.2 | n.d. | Δ |
| 苯駢芴 (Fluoranthene) (CAS No.: 206-44-0) | | mg/kg | 0.2 | n.d. | Δ |
| 菲 (Phenanthrene) (CAS No.: 85-01-8) | | mg/kg | 0.2 | n.d. | Δ |
| 芘 (Pyrene) (CAS No.: 129-00-0) | | mg/kg | 0.2 | n.d. | Δ |
| 萘 (Naphthalene) (CAS No.: 91-20-3) | | mg/kg | 0.2 | n.d. | Δ |
| 多環芳香烴15項總和 (Sum of 15 PAHs) | | mg/kg | - | n.d. | Δ |

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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)

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) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 符合性結果之判定係以測試結果與限值做比較。(The statement of compliance conformity is based on comparison of testing results and limits.)

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測試報告

Test Report

號碼(No.): ETR22301193

日期(Date): 15-Mar-2022

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Remark :

△ 德國產品安全委員會(AfPS): GS PAHs 要求

AfPS (German commission for Product Safety): GS PAHs requirements

| 項目 (Parameter) | 第 1 類(Category 1) | 第 2 類(Category 2) | | 第 3 類(Category 3) | |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 意圖放入口中的材料或者長時間接觸皮膚(超過 30 秒)的 2009/48/EC 定義的玩具材料和 3 歲以下兒童使用的產品(Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds)) | 不屬於第 1 類的材料 · 並意圖或可預見與皮膚接觸逾 30 秒(長期皮膚接觸)或重複的短時間接觸(Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin) | a. 供 14 歲以下兒童使用的產品(Use by children under 14) | b. 其它產品(Other consumer products) | 不屬於第 1 類或第 2 類的材料 · 並意圖或可預見與皮膚接觸不超過 30 秒(短期皮膚接觸)(Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≤ 30 seconds)) |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Phenanthrene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[b]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[j]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Indeno[1,2,3-c,d] pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Dibenzo[a,h]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[g,h,i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 15 項 PAH 總濃度 (Sum of 15 PAH) | < 1 | < 5 | < 10 | < 20 | < 50 |

單位(Unit) : mg/kg

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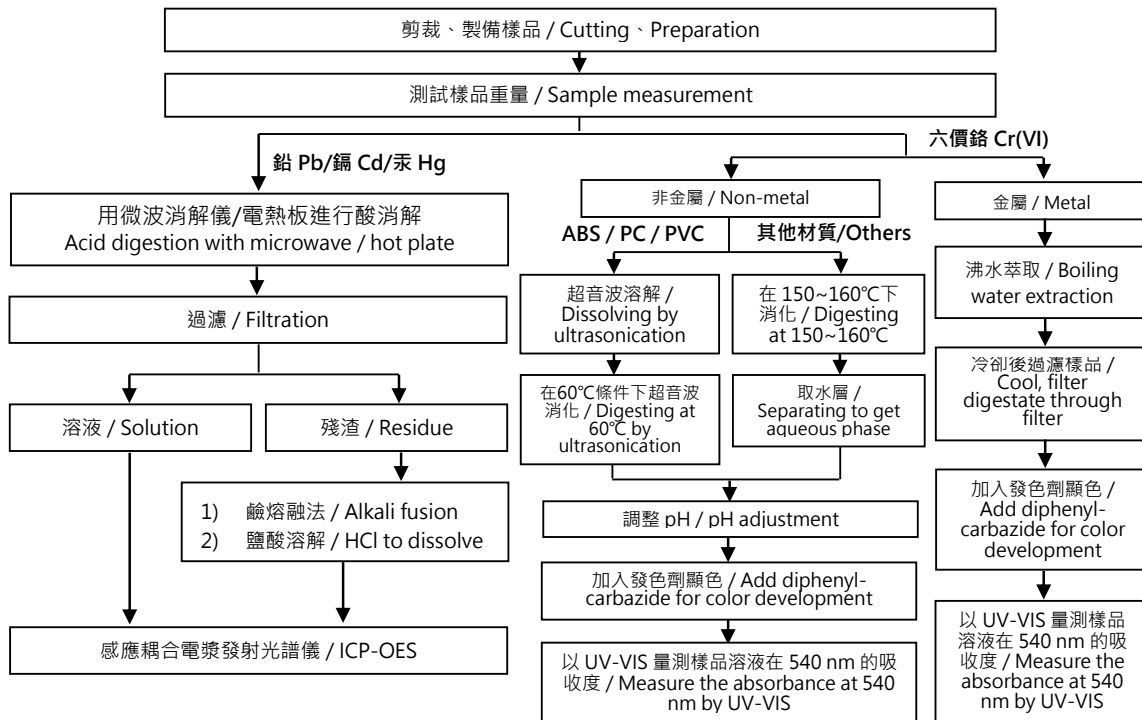
新北市樹林區中華路6-8號 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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.

(Cr⁶⁺ test method excluded)



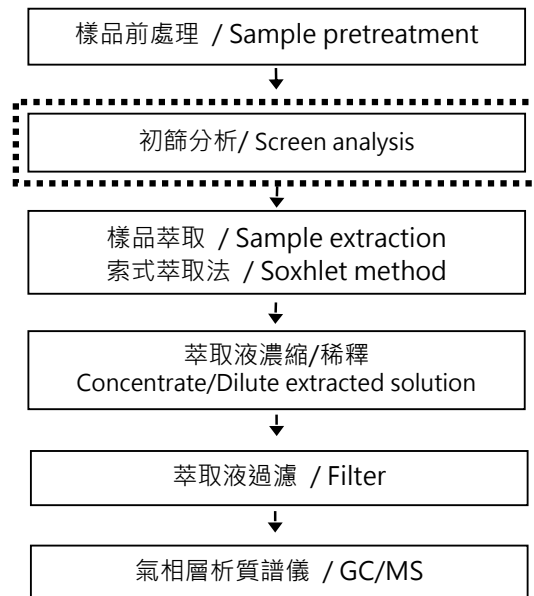
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs

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 - - - →



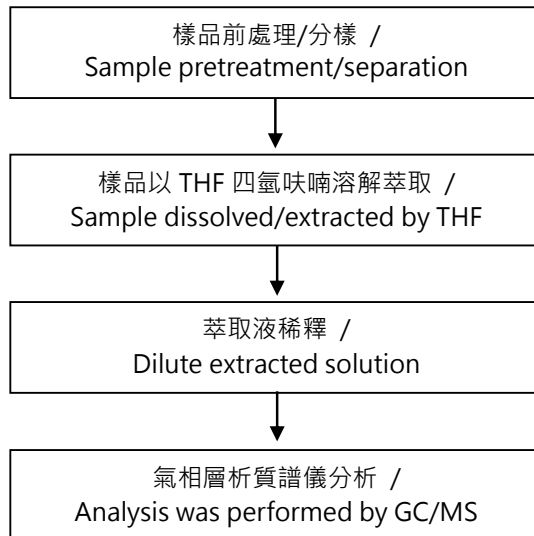
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】

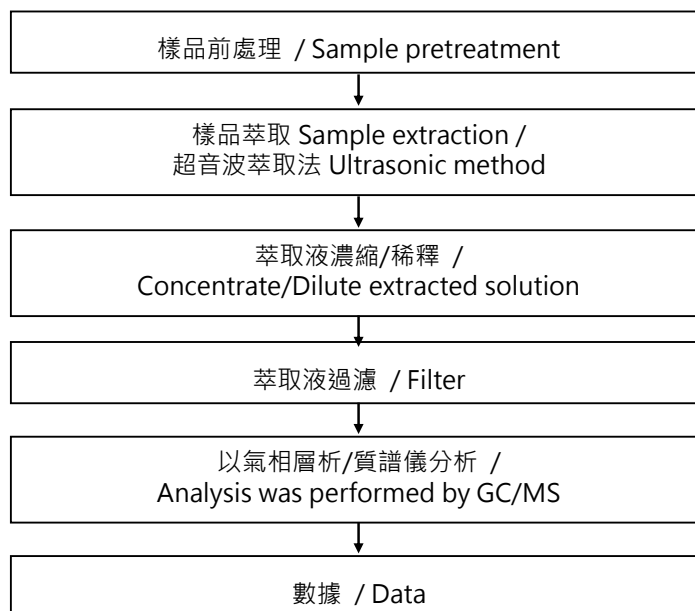


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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

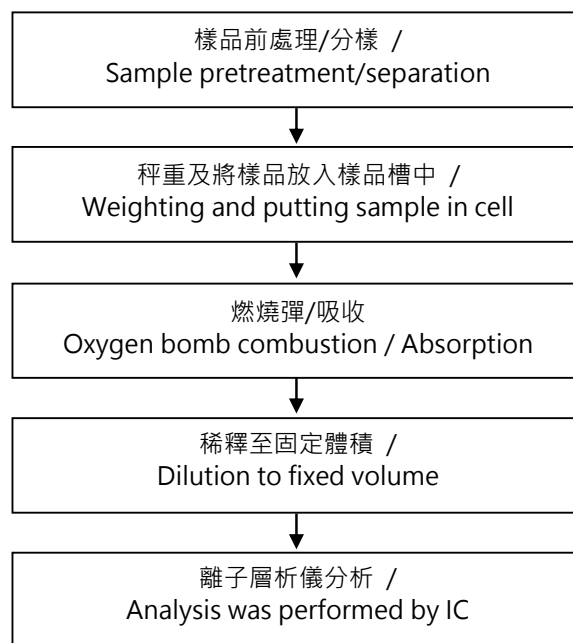


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鹵素分析流程圖 / Analytical flow chart - Halogen

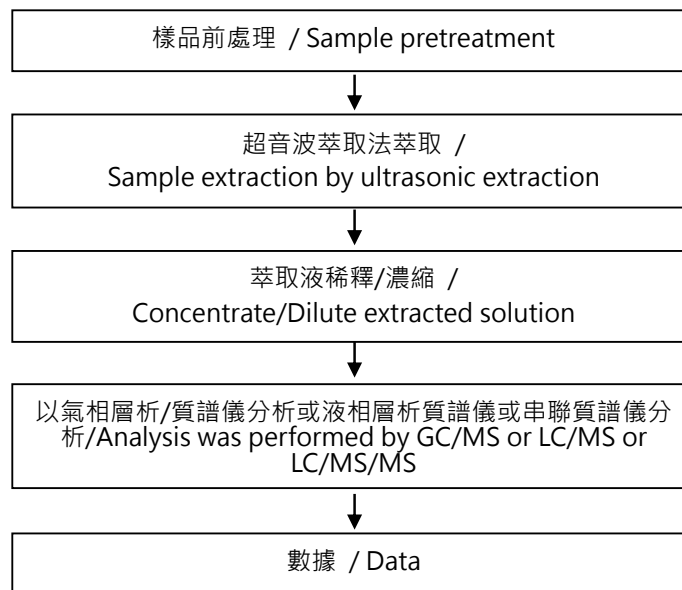


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



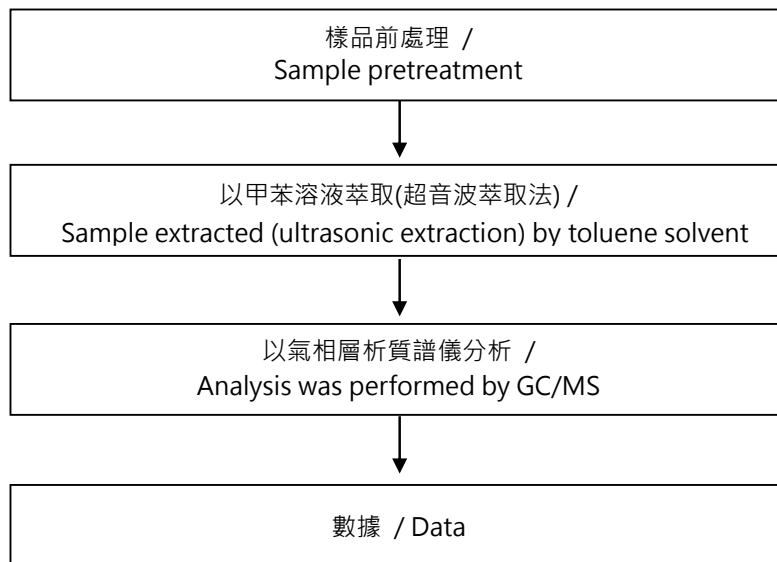
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多環芳香烴分析流程圖 /

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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測試報告

Test Report

號碼(No.): ETR22301193

日期(Date): 15-Mar-2022

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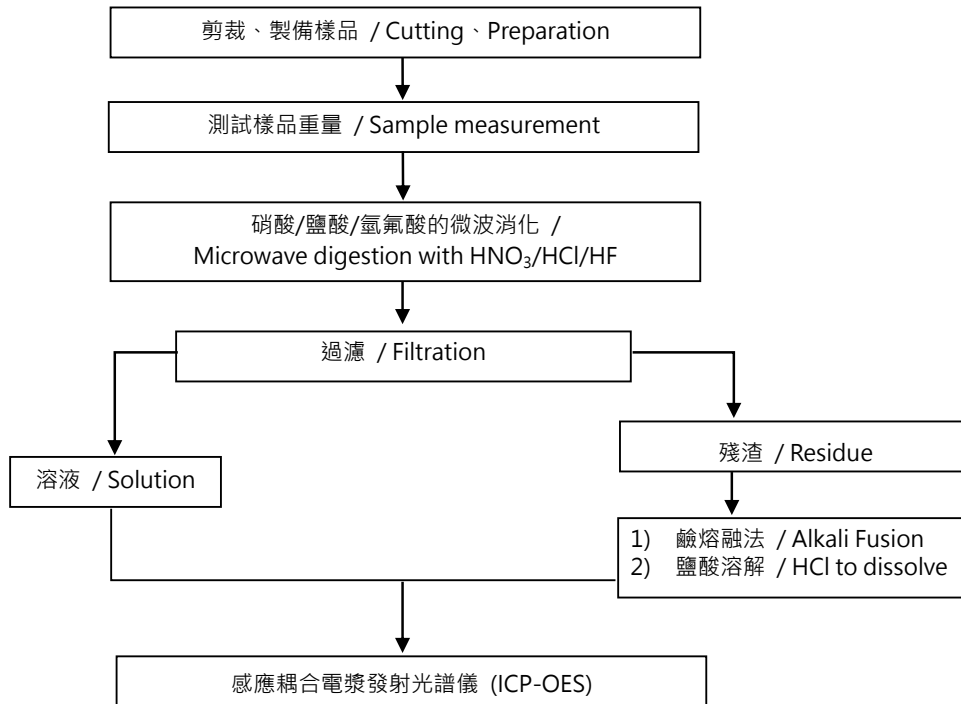
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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.

【參考方法/Reference method : US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

測試報告

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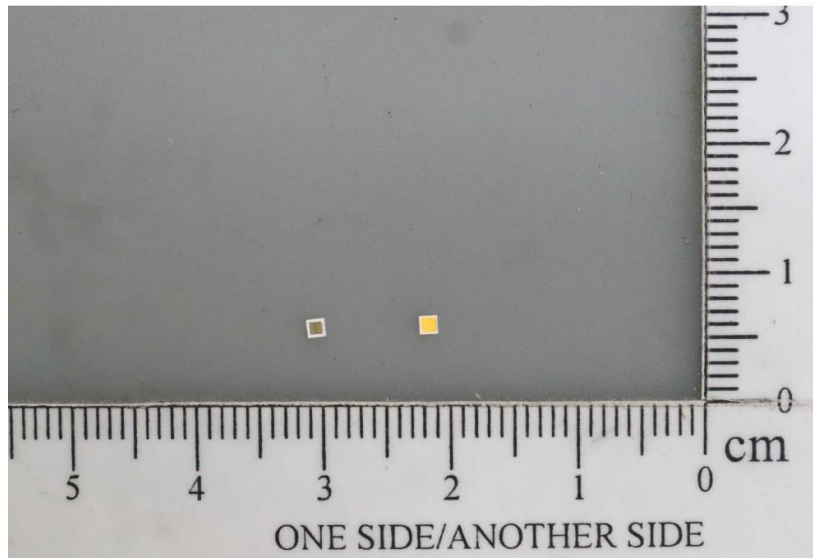
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR22301193



** 報告結尾 (End of Report) **

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