

承 認 書

APPROVAL SHEET

發行日期： 2018/06/05


料 號： 51000-024487-RS

品 名： QNAP_x_Panasonic_BlueGlacier_P8_(ZH)_51000-024487-RS_201806_A

規 格： 21X29.7cm

廠 商： 展旺文具印刷品行

廠商料號： 20180605QNAP

AUTHORIZED		SIGNATURE	
			
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威聯通科技股份有限公司

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承認書規格表

料號	51000-024487-RS	材質	封面-雪銅150P 內頁-雪銅150P
版本	ZH-A版	印刷	正四反四
尺寸	21x29.7cm	裝訂	騎馬釘(左翻)
頁數	8頁	上光	封面-局部光 封面封底內頁-上水消光

原始圖檔:



項目	BlueGlacier 分層儲存歸檔系統	
	入門版	專業版
說明	BlueGlacier 提供兩種入門版系統，均含一位儲存櫃，內含兩層光碟架，可存放最多 100 個光碟。	BlueGlacier 提供兩種專業版系統，均含一位儲存櫃，內含兩層光碟架，可存放最多 100 個光碟。
型號	BGA-PBR5-S01	BGA-PBR5-RP-A1
內建光碟架	TEC-1000U x1 32 個 (每層可存放 16 個) 4 層 HDD x6 256 GB SSD x4 SAS 1500 系列 x4 USB 3.1 (Type-A) x1	TEC-1000U x1 32 個 (每層可存放 16 個) 4 層 HDD x6 256 GB SSD x4 SAS 1500 系列 x4 USB 3.1 (Type-A) x1
硬碟規格	SFF 3.5" (8") SFF 3.5" (8")	3.5" 3.5" 3.5" x152 SFF 3.5" (8")
產品量 (Item Capacity)	24 TB HDD (每層可存放 144 TB) 1 TB SSD (每層可存放 144 TB)	271.6 TB (每層可存放 144 TB HDD 1 TB SSD Up to 144 TB Up to 144 TB)
總容量	24 TB	271.6 TB
RAID 支援	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10

* 最大容量限制為 12 TB 10 TB HDD
** 僅支援 SSD 支援，並支援使用 1 TB 硬碟和 HDD 容量，支援 1.8 英寸 4 TB SSD
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BlueGlacier 分層儲存歸檔系統的規格與 SKU

BlueGlacier 產品現在已上市，請前往 blueglacier.qnap.com 了解更多信息。



BlueGlacier 分層儲存歸檔系統特色亮點

BlueGlacier 分層儲存歸檔系統為混合式解決方案，結合企業級 NAS、藍光光碟儲存與雲端服務，能滿足主要需求 (Primary Storage)、冷資料 (Cold Data) 儲存與數據存儲等需求。BlueGlacier 能為企業提供多種儲存方案，並提供最佳化儲存方案，並提供最佳化儲存方案。

- 混合式解決方案 — 結合 QNAP NAS 與 Panasonic freeize-ray 光碟儲存系統，能滿足主要需求 (Primary Storage)、冷資料 (Cold Data) 儲存與數據存儲等需求。
- 數據保護 — 提供多種數據保護方案，包括數據複製、數據備份、數據還原等。
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BlueGlacier 的設計能滿足不同的資料需求，提供多種儲存方案，包括 SSD、HDD、光碟等。BlueGlacier 能為企業提供多種儲存方案，並提供最佳化儲存方案。

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對於 3-2-1 策略，BlueGlacier 分層儲存歸檔系統能以最低成本建立長期可靠儲存方案，並提供最佳化儲存方案。



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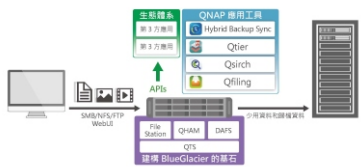
原始圖檔：



蘊藏於 BlueGlacier 之中的 QNAP 快取技術，能有效降低 HDD 與 SSD 磨損。Hybrid Backup Sync 將資料備份、檔案同步及雲端儲存功能全部整合到一個軟體應用之中，提供功能協同打捆一個簡化且自動化的儲存環境，不但效能卓越，更大幅縮短了日常工作的各種工作行程。

除了這些系統的核心功能之外，BlueGlacier 使用者還可利用 QNAP 應用程式擴展工作生產力。例如，使用 Quirc 迅速找到檔案，Qiling 可以協助將檔案與資料自動整理分類歸檔，QNAP NAS 內建的應用程式不獨有之，可以延伸系統功能，讓 NAS 無所不能。

者還可利用 QNAP 應用程式增強工作生產力。例如，使用 Qsirch 迅速找分類及歸檔，QNAP NAS 內建的應用程式不勝枚舉，可以延伸系統功能。

 BlueGlacier 分層儲存歸檔系統的優勢

採用 BlueGlacier 分層儲存架構系統，無需大量的學習成本或轉換工具。所有複雜的儲存管理作業，全部整合至一個簡單易用的 Web 使用介面中。透過 QNAP 優質的 NAS 應用工具與使用體驗，您可以在 BlueGlacier 友善的操作環境中，輕鬆管理處於生命週期各個階段中的資料。



QNAP Hybrid Archival Manager 讓光碟檔的管理作業更加流暢、簡單。只需幾個點擊，就可以完成系統配置、碟檔管理、資料夾設定和系統日誌檢視。

QNAP Hybrid Backup Sync 提升資料備份、檔案同步和災難復原效率。Hybrid Backup Sync 將舊、檔案與同步功能全部整合到一個軟體應用之中，讓您輕鬆地傳輸資料到本地端、遠端和雲端儲存空間，支持您全方位的資料儲存與災難復原計畫。



強大的 Querc 全文檢索搜尋引擎，能迅速找到所需的檔案，大大提升工作效率。

Qiling 可以自動整理您的檔案，只需設定檔案分類條件和
路徑，剩下的交給 Qiling 就行。



QNAP SSD / HDD 混合儲存技術: Qtiier™ 技術實現自動分層儲存解決方案, 可將經常存取的「常用」(Hot) 資料遷移到高速記憶存層, 將不常存取的「冷」(Cold) 資料遷移到較低成本的容量型硬碟機上, 讓儲存效能利用率達到最佳化。



BlueGlacier 為合作夥伴和使用者提供全面的 API 支援 (如下所列)。利用這些 API, 合作夥伴可以將自己的應用工具整合到 BlueGlacier 之中, 成為這個強勁企業級儲存生態體系的一部分。不僅如此, 還提供極高的自訂彈性。

- freeze-ray 系統和歸檔管理 API
- 資料歸檔 / 磁帶作業管理 API
- 資料歸檔系統 (DAFS) 管理 API
- 檔案 / 資料夾讀 / 寫作業 API
- NAS 系統管理 API

BlueGlacier 再配合先進的資料封裝系統 (Data Archival File System; DAFS)，可建立包含多個實體儲存裝置的儲存池，並能將檔案分別為多個小區塊 (blocks)，再將這些分散儲存到不同實體裝置的儲存池中，如此一來，省下了不少將檔案直接存放到儲存裝置的時間，儲存利用率也因此大幅提升。當有大批的檔案需要整理、備份時，DAFS 為您省下各種耗時的過程。



在資料歸檔至光碟之前，您可透過 QNAP Storage & Snapshots Manager 管理所有檔案，BlueGlacier 2 的資料。BlueGlacier 提供許多組態的功能，像是儲存池、多個 RAID 組態、動態配置磁碟區、空間回收及線上容量擴充等。此外，為您的檔案建立多個快照，可避免資料遺失。



QNAP 提供多樣化的 NAS 解決方案，滿足各種需求與預算，包含多樣化機種（五立式、機架式等）、儲存容量（最高可達 PB 等級）、效能（HDD、混合型磁碟、全快閃）及網路頻寬（最高可達 40 GbE）等各式選擇，使用者能輕鬆找到適合的型號與規格，請參考專業的資料與支援服務。

	HDD (近距離儲存)	磁帶	光碟	GRAP Recorder
資料安全	▲	▲	★	★
故障復性	▲	▲	★	★
壽命	約 4 年	10-30 年	50-100 年	50-100 年
耐用度	▲	▲	★	★
相容性	●	▲	★	★
整體擁有成本 (TCO)	×	▲	★	★
維護與管理能力	★	★	●	★
傳輸速度	★	★	●	★

* 最多向下支離2代

由於技術上的進步，光碟具有進一步強化儲存密度（儲存容量）的極大潛力，從發展逾 30 年的光碟技術中汲取寶貴的技術知識與經驗，Panasonic 向來研發最尖端光碟產品的領導者，Panasonic 目前推出「藍碟光碟」(Archival Disc) 儲存數位化文件，不僅能儲存大量資料，還能延緩保存時間，是現代網路、提供高品質數據解決方案的最高選擇。

● **資料安全**
就資料安全而言，記錄媒體本身能夠防止可惡惡意個人的竊取。光碟只能寫入一次的特性，使用實體變更來記錄資料，讓篡改行為不可見發生，所以在此類上非常安全。HDD 和磁帶之間的備記錄媒體，可以進行多次覆寫，所以讓篡改採用顯示的表徵（如加註）來寫保證紙張系統的資料安全。

• **非揮發性**
HDD 和磁帶之類的磁記錄媒體存在受磁場影響、可能漏失已記錄資料的風險。硬碟及磁帶材料本身的物理性質與非揮發性記憶的特性，具有非揮發性記憶體。非揮發性記憶體儲存的高密度資料之一。

● **儲存壽命長、可靠性強**
儲存媒體材料的結構與品質，還有環境因素都會影響資料儲存壽命的長短。一般而言 HDD 不到 5 年，磁帶則為 10-30 年。HDD 包含了機械/馬達元件和磁碟儲存媒體，這類磁碟機的壽命一般來說都比較短，因為系統使用時是處於高速運轉，這類磁碟機容易產生磁頭的損傷，光碟存取媒體穩定的三層條件和固態材料狀態的物理性質擁有更長久的儲存能力，這類媒體擁有最高的資料儲存能力，Dyanasium「雙磁碟」(Archival Disc)為未來提供可靠儲存，幫助我們在 10 以上的儲存壽命。

• **相容性**
除非光碟存貯的檔案達到了變性，否則光碟可保持不變化的穩定性。舉例來說，在雙面光碟 (Archival Disc) 的發展藍圖中，都會具備不同尺寸的片光碟穩定性，因此不需要額外的遷移成本。反過來，穩定性可能會因為環境變異以及儲存時間而喪失，實難於短期每 2 至 3 年就重新對它進行遷移的輸出，這種特性基本上適用於大量長期儲存，所以大約每 7 年就必須進行遷移才能不斷從短期遷入到長期的資料。



測試報告

Test Report

號碼(No.) : CE/2013/72060 日期(Date) : 2013/07/17 頁數(Page) : 1 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, 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) : 中華紙漿股份有限公司 (CHUNG HWA PULP CORPORATION)

樣品名稱(Sample Description) : COATED PAPER (銅版紙類)

收件日期(Sample Receiving Date) : 2013/07/10

測試期間(Testing Period) : 2013/07/10 TO 2013/07/17

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Troy Chang, Manager Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告

Test Report

號碼(No.) : CE/2013/72060 日期(Date) : 2013/07/17 頁數(Page) : 2 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.



測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色紙張 (WHITE PAPER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321: 2008 方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321: 2008 方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321: 2008 方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321: 2008 方法, 以 UV-VIS 檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
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 (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考 IEC 62321: 2008 方法, 以氣相層析/質譜儀檢測。 / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苄基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考 EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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測試報告

Test Report

號碼(No.) : CE/2013/72060 日期(Date) : 2013/07/17 頁數(Page) : 3 of 9

中華紙漿股份有限公司



CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGGING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
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/質譜儀檢測之。 / 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/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	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.
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		-	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.

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中華紙漿股份有限公司



CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, 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)

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號碼(No.) : CE/2013/72060 日期(Date) : 2013/07/17 頁數(Page) : 5 of 9

中華紙漿股份有限公司

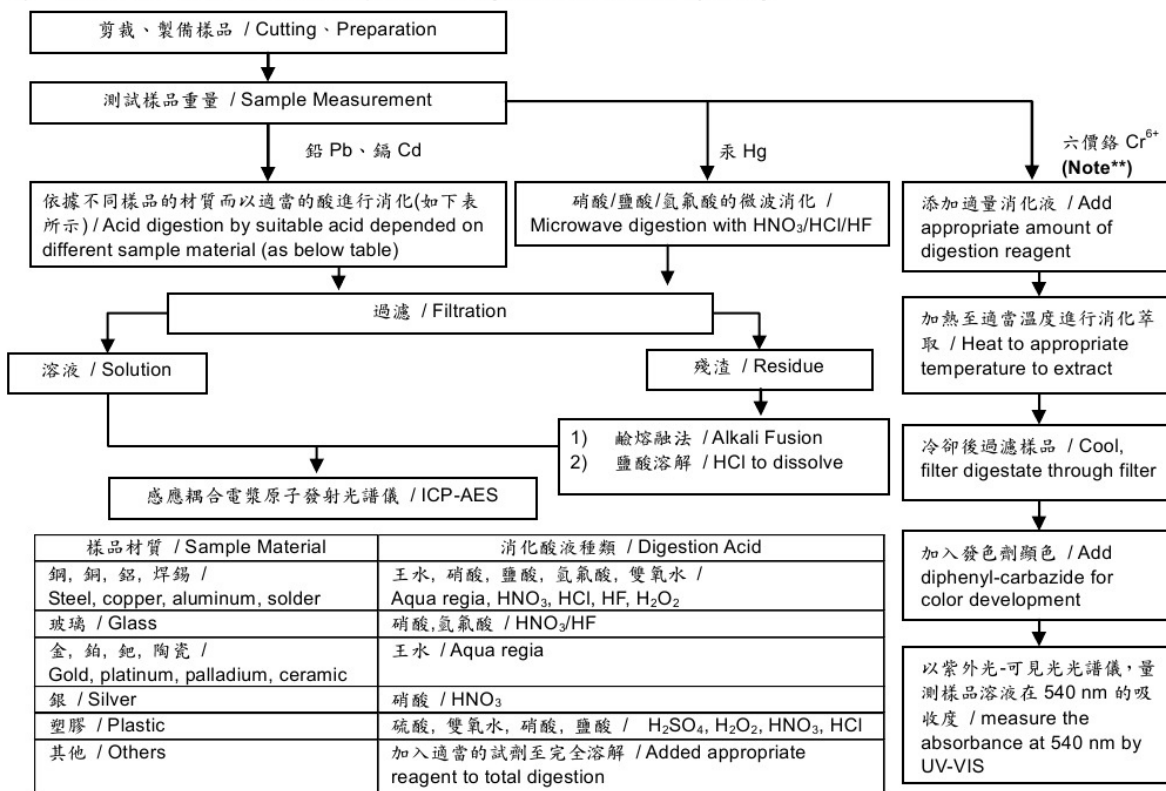


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12F, NO. 51, SEC. 2, CHONGGING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

- 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. (Cr⁶⁺ test method excluded)
- 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



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

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中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

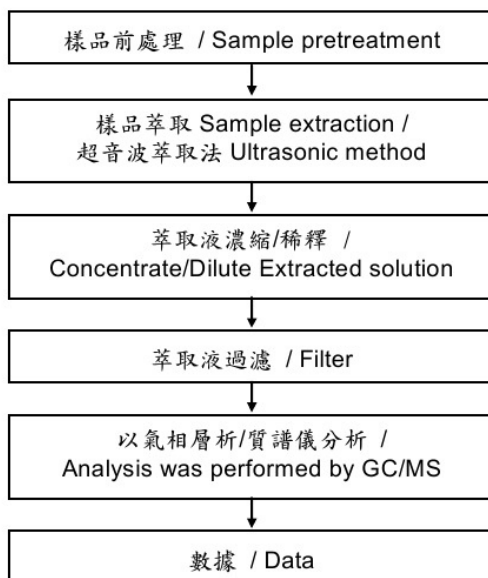
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12F, NO. 51, SEC. 2, CHONGCHING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.



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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中華紙漿股份有限公司



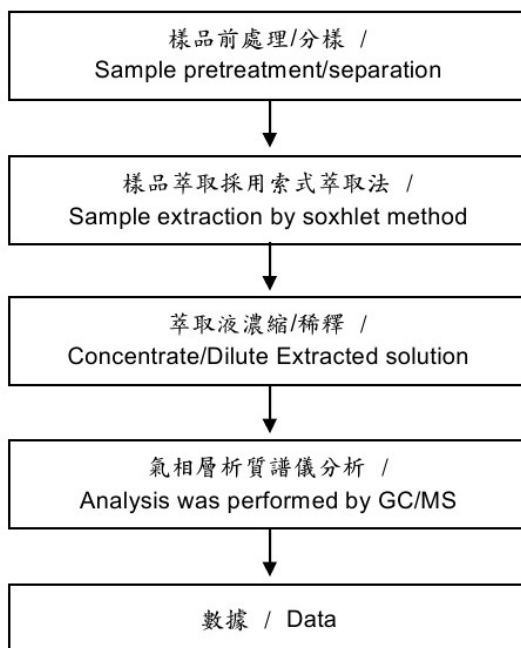
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 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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中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

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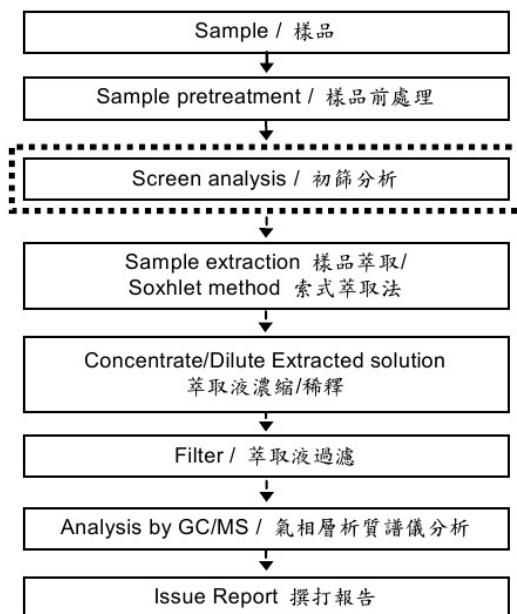
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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測試報告

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中華紙漿股份有限公司



CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING SOUTH RD., JHONGJHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

* 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/2013/72060



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.) : CE/2014/50685

日期(Date) : 2014/05/12

頁數(Page): 1 of 6

柯達貿易股份有限公司 / KODAK TRADING CO., LTD.



(株式會社T & K TOKA / T & K TOKA CO., LTD.)

(東華油墨國際(香港)有限公司 / TOKA INK INTERNATIONAL (HONG KONG) LTD.)

台北市大同區太原路24號2樓 / 2F, NO. 24, TAI YUAN ROAD, DATONG DIST, TAIPEI CITY, TAIWAN

(〒173-0001 東京都板橋區本町34-8 / 34-8, HON-CHO ITABASHI-KU, TOKYO 173-0001, JAPAN)

(香港九龍尖沙嘴廣東道30號新港中心第一座510室 / ROOM 510, TOWER 1, SILVERCORD NO. 30, CANTON RD., T.S.T. KOWLOON, HONG KONG)

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) : 柯達貿易股份有限公司 (KODAK TRADING CO., LTD.)

樣品名稱(Sample Description) : SUPER TEK GT YELLOW ML (SUPER TEK GT 黃ML)

原產國(Country of Origin) : 日本 (JAPAN)

收件日期(Sample Receiving Date) : 2014/05/06

測試期間(Testing Period) : 2014/05/06 TO 2014/05/12

測試需求(Test Requested) : 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


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

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測試報告

Test Report

號碼(No.) : CE/2014/50685

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柯達貿易股份有限公司 / KODAK TRADING CO., LTD.



(株式會社T & K TOKA / T & K TOKA CO., LTD.)

(東華油墨國際(香港)有限公司 / TOKA INK INTERNATIONAL (HONG KONG) LTD.)

台北市大同區太原路24號2樓 / 2F, NO. 24, TAI YUAN ROAD, DATONG DIST, TAIPEI CITY, TAIWAN

(〒173-0001 東京都板橋區本町34-8 / 34-8, HON-CHO ITABASHI-KU, TOKYO 173-0001, JAPAN)

(香港九龍尖沙嘴廣東道30號新港中心第一座510室 / ROOM 510, TOWER 1, SILVERCORD NO. 30, CANTON RD., T.S.T. KOWLOON, HONG KONG)

測試結果(Test Results)

測試部位(PART NAME)No.1 : 黃色膏狀 (YELLOW PASTE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With	2	n.d.
鉛 / Lead (Pb)	mg/kg	reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
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	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg	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.
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.

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測試報告

Test Report

號碼(No.) : CE/2014/50685

日期(Date) : 2014/05/12

頁數(Page): 3 of 6

柯達貿易股份有限公司 / KODAK TRADING CO., LTD.



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(香港九龍尖沙嘴廣東道30號新港中心第一座510室 / ROOM 510, TOWER 1, SILVERCORD NO. 30, CANTON RD., T.S.T. KOWLOON, HONG KONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	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.
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.

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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測試報告

Test Report

號碼(No.) : CE/2014/50685

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柯達貿易股份有限公司 / KODAK TRADING CO., LTD.

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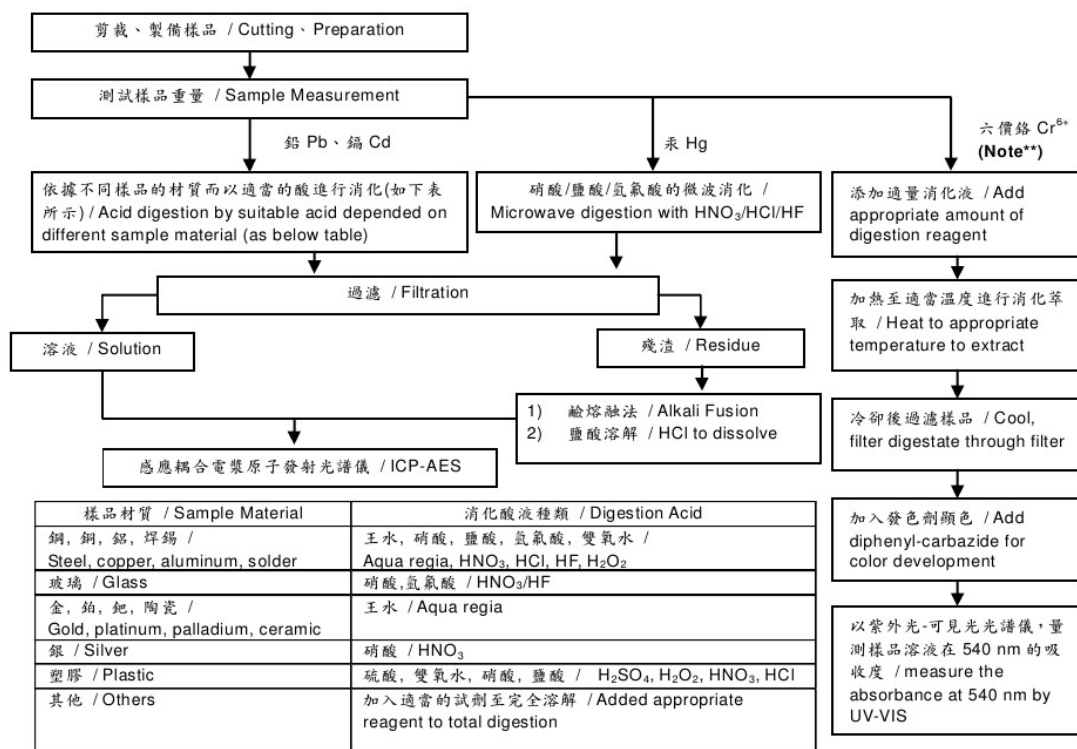
台北市大同區太原路24號2樓 / 2F, NO. 24, TAI YUAN ROAD, DATONG DIST, TAIPEI CITY, TAIWAN

(〒173-0001 東京都板橋區本町34-8 / 34-8, HON-CHO ITABASHI-KU, TOKYO 173-0001, JAPAN)

(香港九龍尖沙嘴廣東道30號新港中心第一座510室 / ROOM 510, TOWER 1, SILVERCORD NO. 30, CANTON RD., T.S.T. KOWLOON, HONG KONG)



- 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. (Cr⁶⁺ test method excluded)
- 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



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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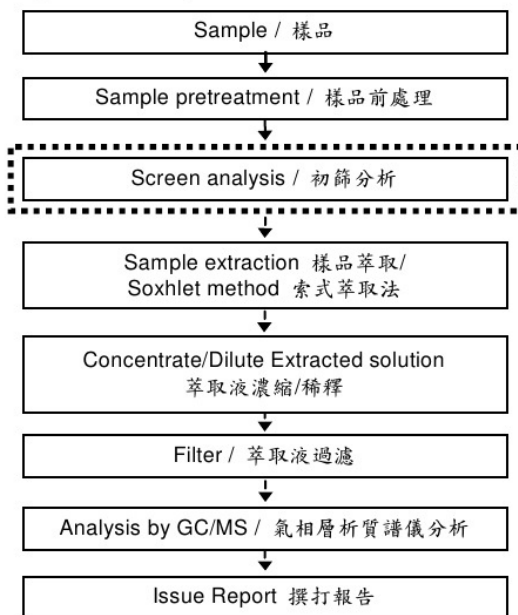
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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* 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/2014/50685



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.) : CE/2014/50686

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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) : 柯達貿易股份有限公司 (KODAK TRADING CO., LTD.)

樣品名稱(Sample Description) : SUPER TEK GT MAGENTA ML (SUPER TEK GT 紅ML)

原產國(Country of Origin) : 日本 (JAPAN)

收件日期(Sample Receiving Date) : 2014/05/06

測試期間(Testing Period) : 2014/05/06 TO 2014/05/12

測試需求(Test Requested) : 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Troy Chang, Manager - Tech
Signed for and on 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 : 紅色膏狀 (RED PASTE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考 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.
鉛 / Lead (Pb)	mg/kg		2	n.d.
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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321: 2008 方法, 以 UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	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.
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.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	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.
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.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
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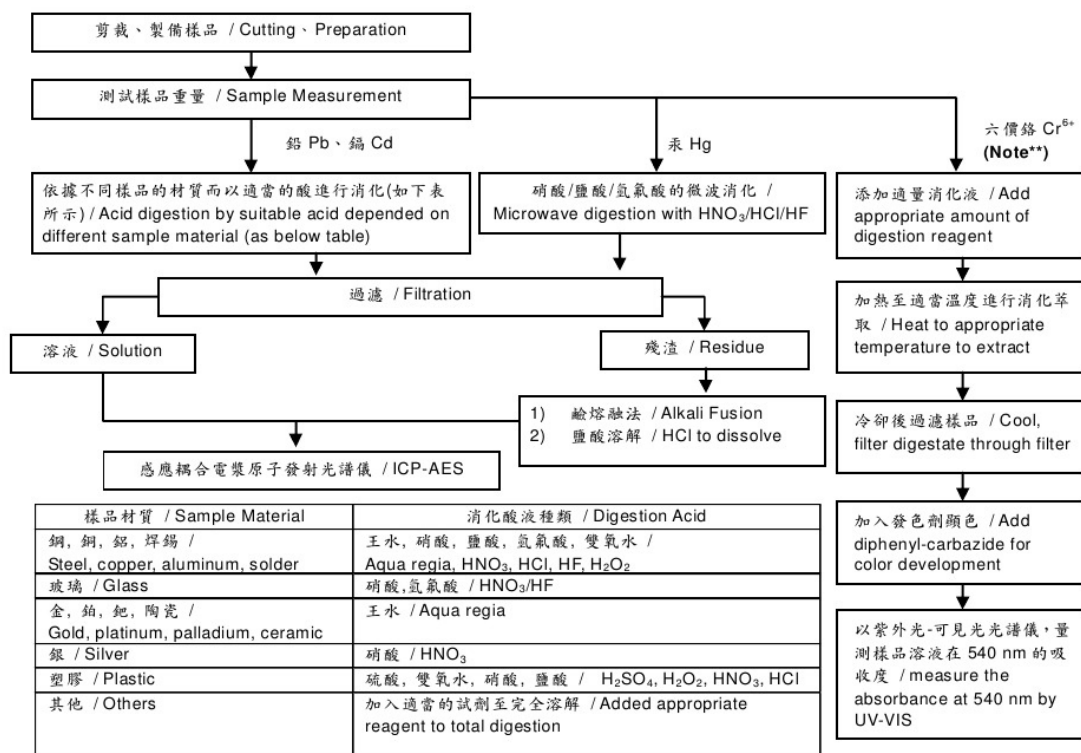
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- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張修興 / Name of the person in charge of measurement: Troy Chang



Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
 (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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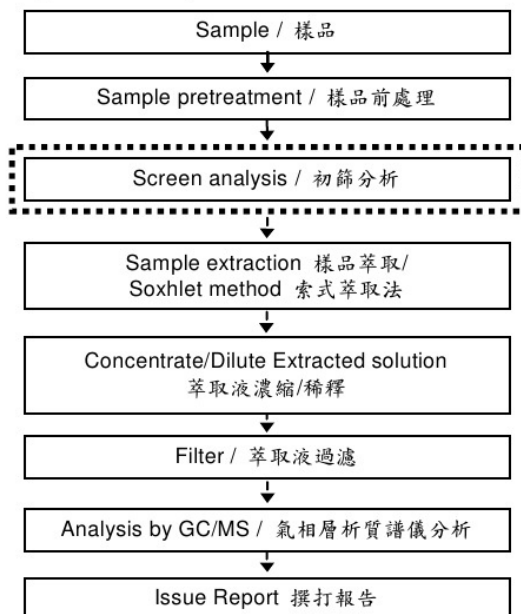
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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柯達貿易股份有限公司 / KODAK TRADING CO., LTD.

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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/2014/50686



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測試報告

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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) : 柯達貿易股份有限公司 (KODAK TRADING CO., LTD.)

樣品名稱(Sample Description) : SUPER TEK GT CYAN ML (SUPER TEK GT 藍ML)

原產國(Country of Origin) : 日本 (JAPAN)

收件日期(Sample Receiving Date) : 2014/05/06

測試期間(Testing Period) : 2014/05/06 TO 2014/05/12

測試需求(Test Requested) : 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Troy Chang, Manager - Tech
Signed for and on 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 : 藍色膏狀 (BLUE PASTE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考 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.
鉛 / Lead (Pb)	mg/kg		2	n.d.
汞 / Mercury (Hg)	mg/kg		2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321: 2008 方法, 以 UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	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.
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.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	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.
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.

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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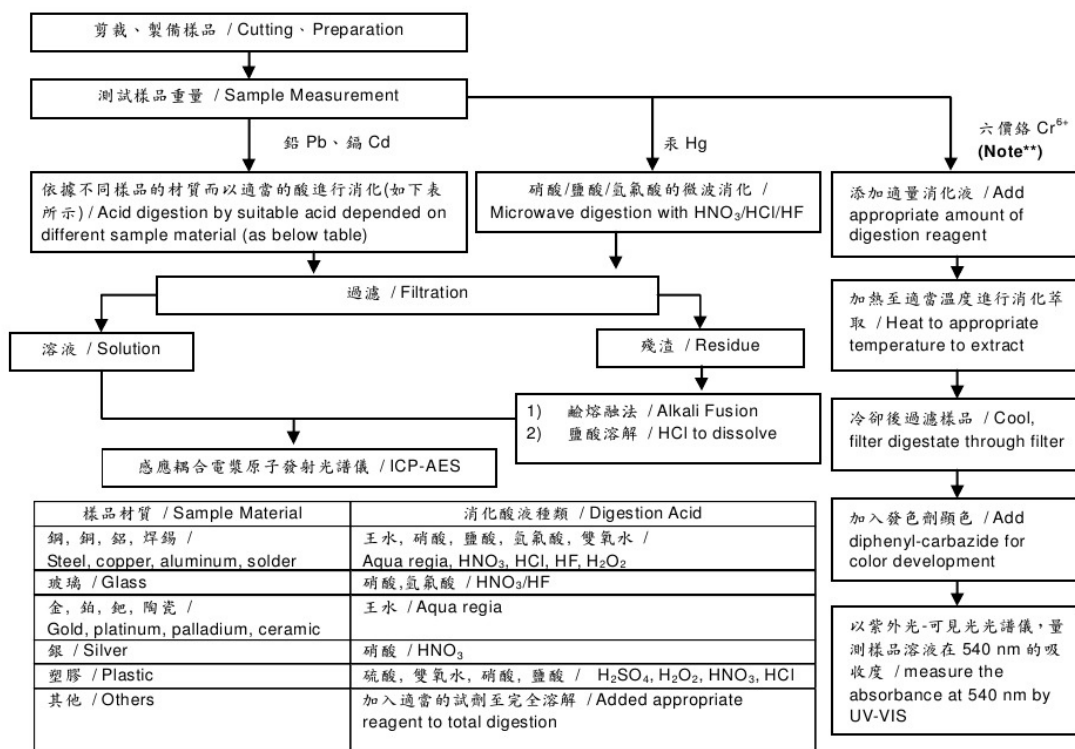
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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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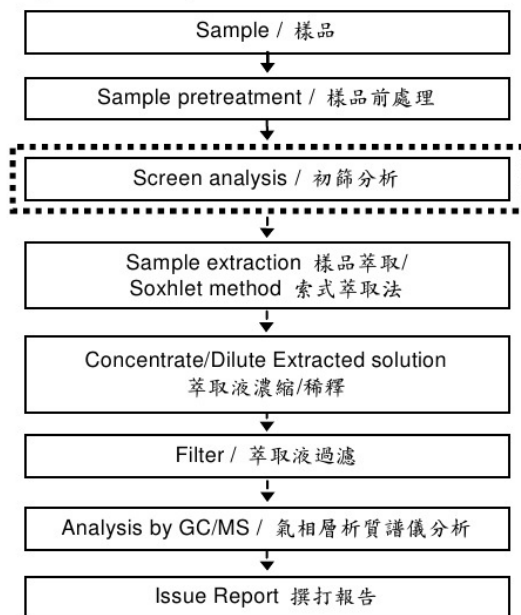
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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

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測試報告

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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) : 柯達貿易股份有限公司 (KODAK TRADING CO., LTD.)

樣品名稱(Sample Description) : SUPER TEK GT BLACK ML (SUPER TEK GT 黑ML)

原產國(Country of Origin) : 日本 (JAPAN)

收件日期(Sample Receiving Date) : 2014/05/06

測試期間(Testing Period) : 2014/05/06 TO 2014/05/12

測試需求(Test Requested) : 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Troy Chang, Manager - Tech
Signed for and on 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 : 黑色膏狀 (BLACK PASTE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考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.
鉛 / Lead (Pb)	mg/kg		2	n.d.
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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	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.
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.

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台北市大同區太原路24號2樓 / 2F, NO. 24, TAI YUAN ROAD, DATONG DIST, TAIPEI CITY, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	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.
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.

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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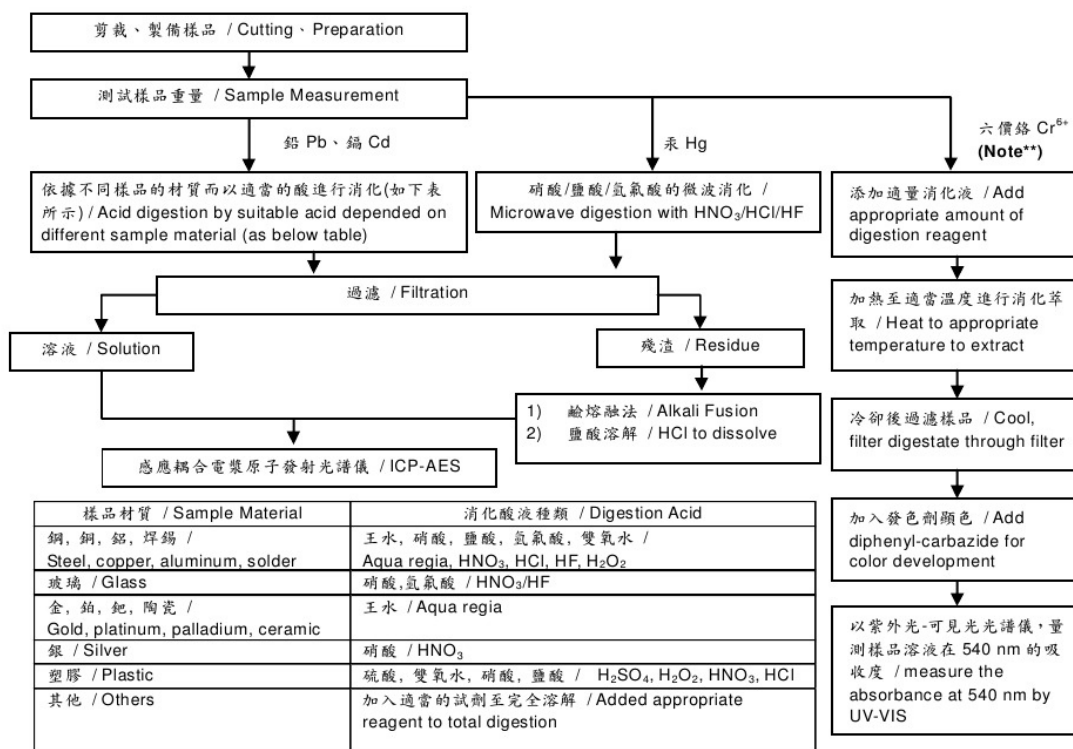
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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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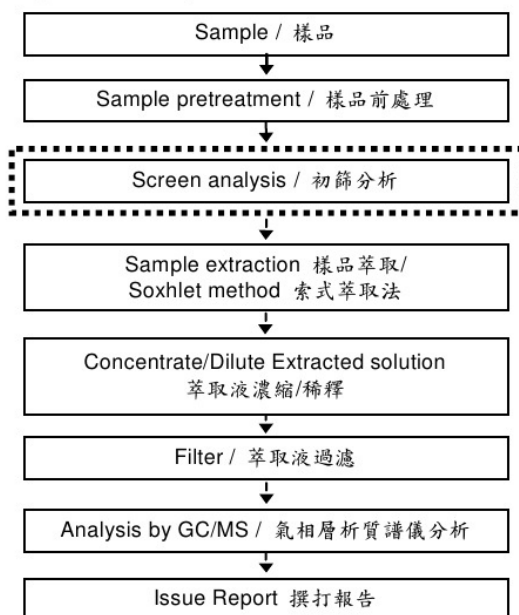
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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* 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.)

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** 報告結尾 (End of Report) **

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