



33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

測試報告/ Test Report

工服編號/ Application No 20-03-QAC-175

承辦日期/ Date of Receipt 2020/03/18

測試日期/ Date of Performance 2020/03/19

報告日期/ Date of Issue 2020/03/25

委託機構/ Manufacturer 高柏科技股份有限公司
T-Global Technology Co., Ltd

地址/ Address 桃園市桃園區大仁路 50 巷 33 號
No. 33, Ln. 50, Daren Rd., Taoyuan Dist., Taoyuan City 330, Taiwan

樣品名稱/ Sample Description 非矽型導熱膏/Non-Silicone Thermal Grease

樣品型號/ Model No. TG-N909

測試內容/ Report Content A. 樣品敘述與測試結果/ Sample Information & Results
B. 樣品圖片/ Sample Photo
C. 流程圖/ Flow Chart

1. 送測樣品及其相關訊息均由客戶提供並已經由客戶確認無誤。/ Any sample(s) and its information listed in this document are provided and identified by clients.

2. 本報告僅對測試樣品負責。/ This report only refers to the specimen(s); it does not imply the result of production to tested sample(s).

3. 非經本中心同意，本報告內容不得以任何方式摘錄複印使用。(全部複印除外)。/ This Test Report cannot be reproduced, except in full, without prior written permission of the laboratory.

報告簽署人/ Approved by:


Laboratory Representative

The content of this PDF file is in accordance with its original issued Test Report. PDF files are for reference only.



33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

A 樣品敘述/ Sample Information

NO.1

樣品編號/ Sample No. 20-03-QAC-175

樣品名稱/ Sample Description 非矽型導熱膏/Non-Silicone Thermal Grease

樣品型號/ Model No. TG-N909

測試結果/ Test Results

測試項目 Test Item(s)	儀器設備 Instruments	參考測試方法 Reference Method	測試結果/ Test Results (單位/ Unit : ppm)	
			NO.1	方法偵測極限 MDL
鉛/ Pb (CAS No.7439-92-1)	ICP-OES	IEC 62321-5:2013 Totally Dissolved	N.D.	2.0
鎘/ Cd (CAS No.7440-43-9)	ICP-OES	IEC 62321-5:2013 Totally Dissolved	N.D.	2.0
汞/ Hg (CAS No.7439-97-6)	ICP-OES	IEC 62321-4:2013 Totally Dissolved	N.D.	2.0
六價鉻/ Cr ⁶⁺ (CAS No.1333-82-0)	UV-VIS	IEC 62321-7-2:2017	N.D.	8.0
多溴聯苯/ PBBs (CAS No.059536-65-1)				
Monobromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Dibromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Tribromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Tetrabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Pentabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Hexabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Heptabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0

The content of this PDF file is in accordance with its original issued Test Report. PDF files are for reference only.



33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

測試項目 Test Item(s)	儀器設備 Instruments	參考測試方法 Reference Method	測試結果/ Test Results (單位/ Unit : ppm)	
			NO.1	方法偵測極限 MDL
Octabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Nonabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
Decabromobiphenyl	GC-MS	IEC 62321-6:2015	N.D.	5.0
多溴聯苯醚/ PBDEs (CAS No.1163-19-5)				
Monobromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Dibromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Tribromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Tetrabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Pentabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Hexabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Heptabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Octabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Nonabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0
Decabromodiphenyl ether	GC-MS	IEC 62321-6:2015	N.D.	5.0

The content of this PDF file is in accordance with its original issued Test Report. PDF files are for reference only.

33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

測試項目 Test Item(s)	儀器設備 Instruments	參考測試方法 Reference Method	測試結果/ Test Results (單位/ Unit : ppm)	
			NO.1	方法偵測極限 MDL
鄰苯二甲酸酯/ Phthalates				
Diisobutyl phthalate (DIBP) (CAS No.84-69-5)	GC-MS	IEC 62321-8:2017	N.D.	50.0
Di(2-ethyl hexyl) phthalate (DEHP) (CAS No.117-81-7)	GC-MS	IEC 62321-8:2017	N.D.	50.0
Di-n-butyl phthalate (DBP) (CAS No.84-74-2)	GC-MS	IEC 62321-8:2017	N.D.	50.0
Butyl benzyl phthalate (BBP) (CAS No.85-68-7)	GC-MS	IEC 62321-8:2017	N.D.	50.0
鹵素/ Halogen				
F (CAS No.7782-41-4)	I.C.	EN 14582:2016	N.D.	50.0
Cl (CAS No.7782-50-5)	I.C.	EN 14582:2016	N.D.	50.0
Br (CAS No.7726-95-6)	I.C.	EN 14582:2016	N.D.	50.0
I (CAS No.7553-56-2)	I.C.	EN 14582:2016	N.D.	50.0

備註/ Note :

1. N.D. : 即為偵測不到/ Not Detected.
2. MDL : 方法偵測極限/ Method Detection Limit.
3. ppm : = mg/kg (0.1% = 1000 ppm)
4. 測試儀器中英文對照/ Sino-British Contrast of the instrument
 - a. ICP-OES 感應耦合電漿原子發射光譜儀
 - b. UV-VIS 分光光度計
 - c. GC-MS 氣相層析質譜儀
 - d. IC 離子層析儀
5. 測試人員/ Tested by : Ellen、ZIV、Wei、Yin
6. 檢閱人員/ Reviewed by : sujane

The content of this PDF file is in accordance with its original issued Test Report. PDF files are for reference only.

33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

B. 樣品照片 / Sample Photo

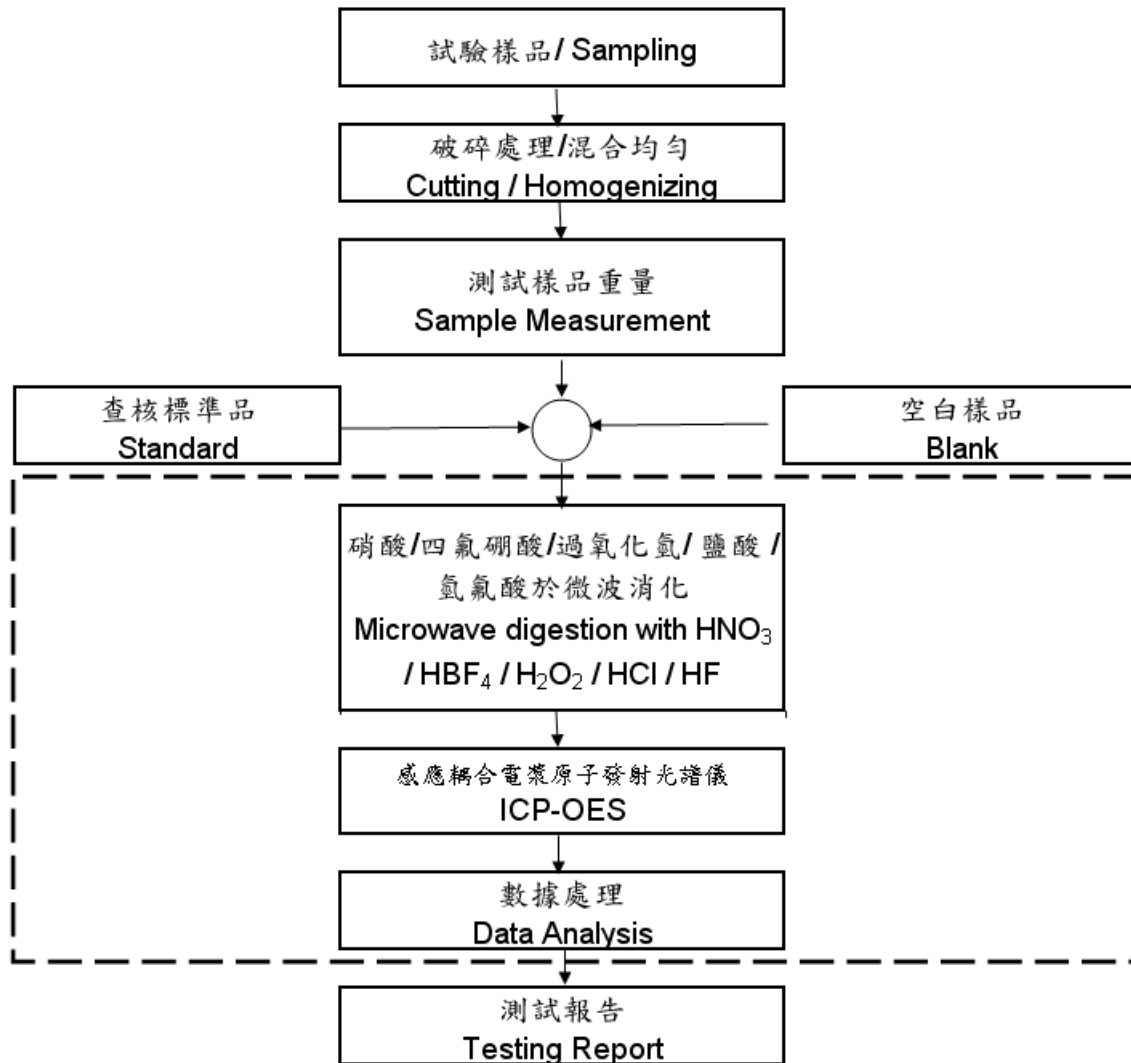


The content of this PDF file is in accordance with its original issued Test Report. PDF files are for reference only.

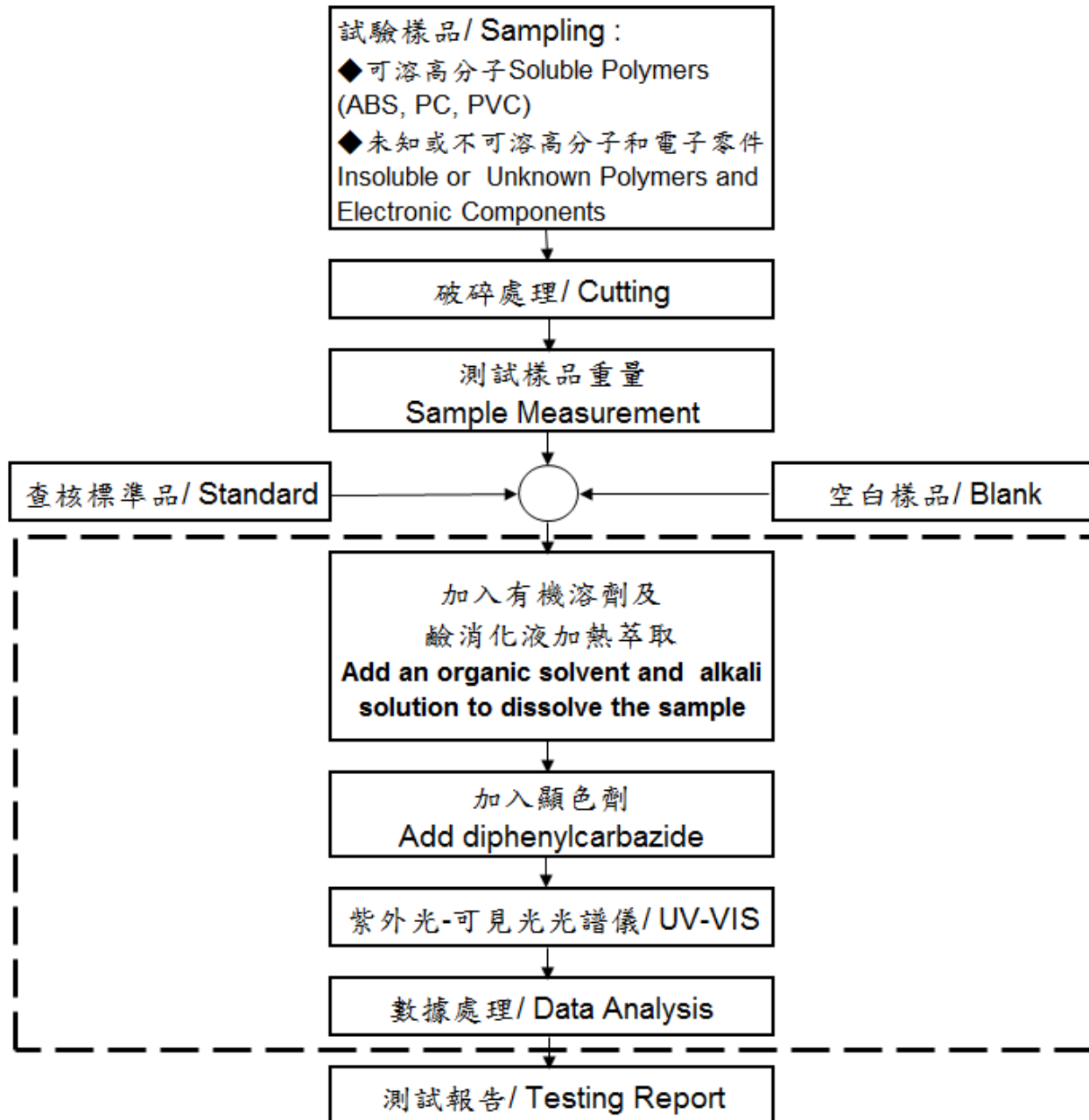
33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw

C. 流程圖/ Flow Chart

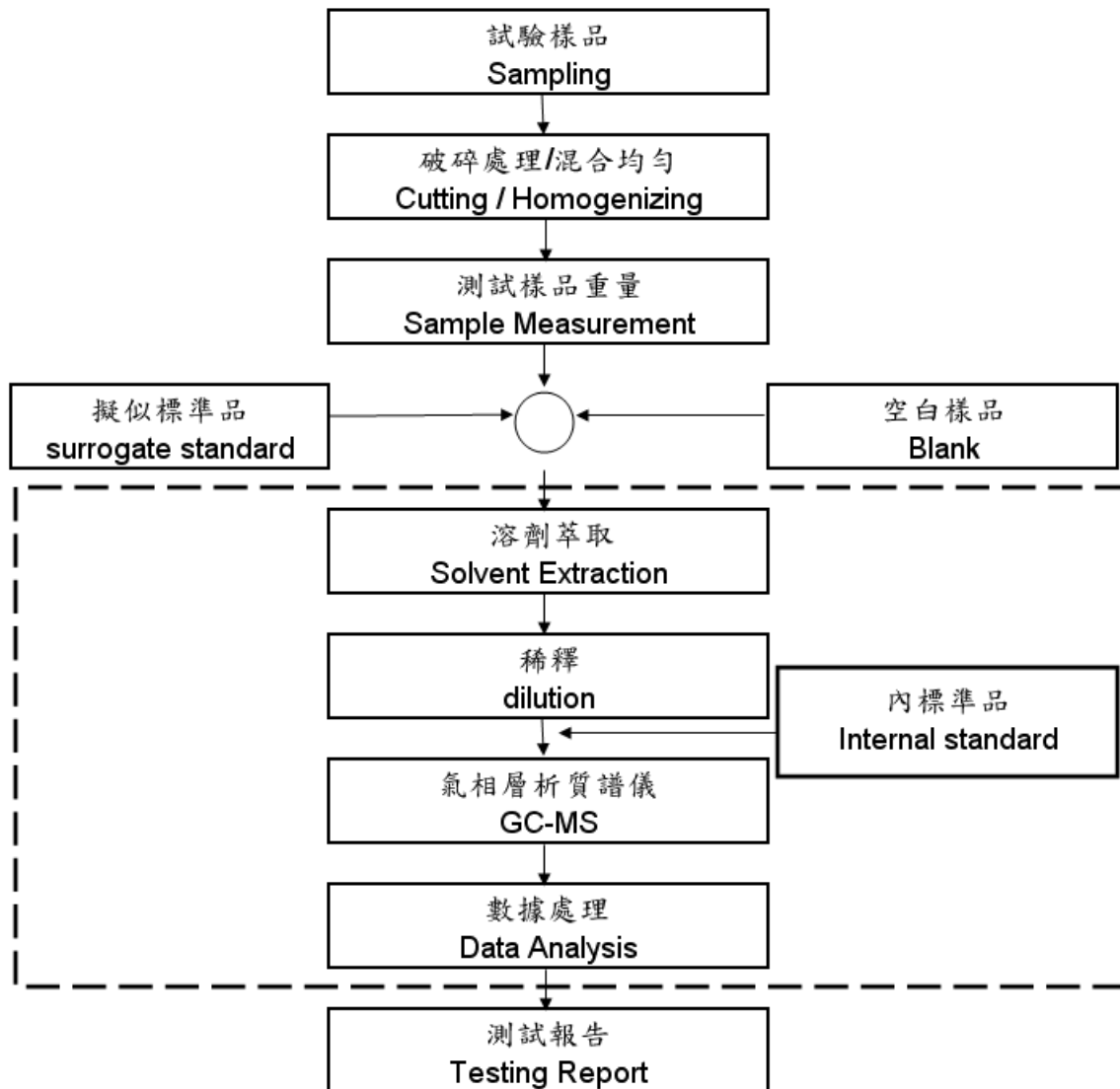


Flow Chart of Digestion-IEC 62321 for Pb、Cd、Hg (完全溶解/ Totally Dissolved)

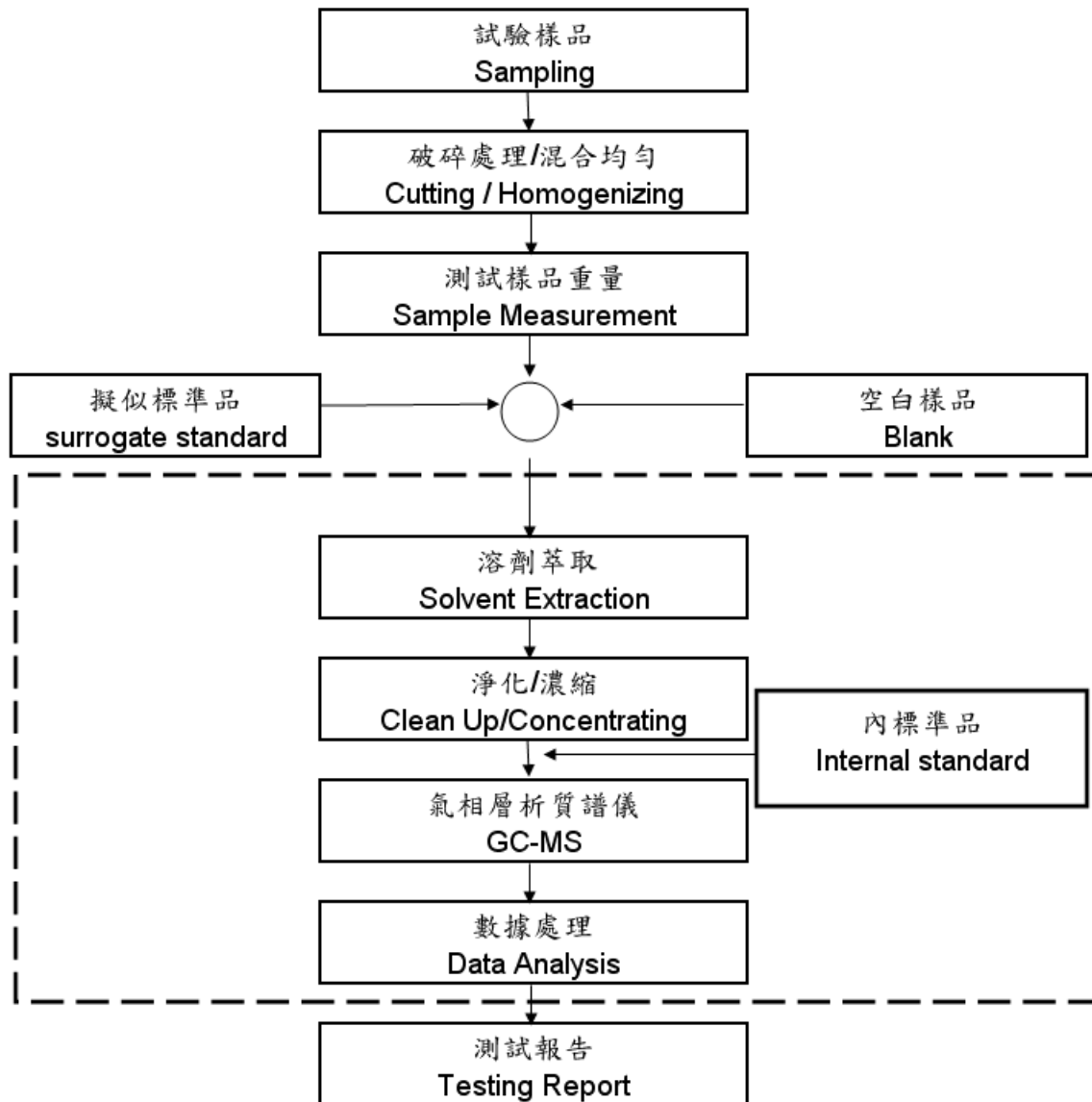
Flow Chart of Extraction-IEC 62321 for Cr⁶⁺

33383 桃園市龜山區文明路 29 巷 8 號 • 03-328-0026 • www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. • 03-328-0026 • www.etc.org.tw



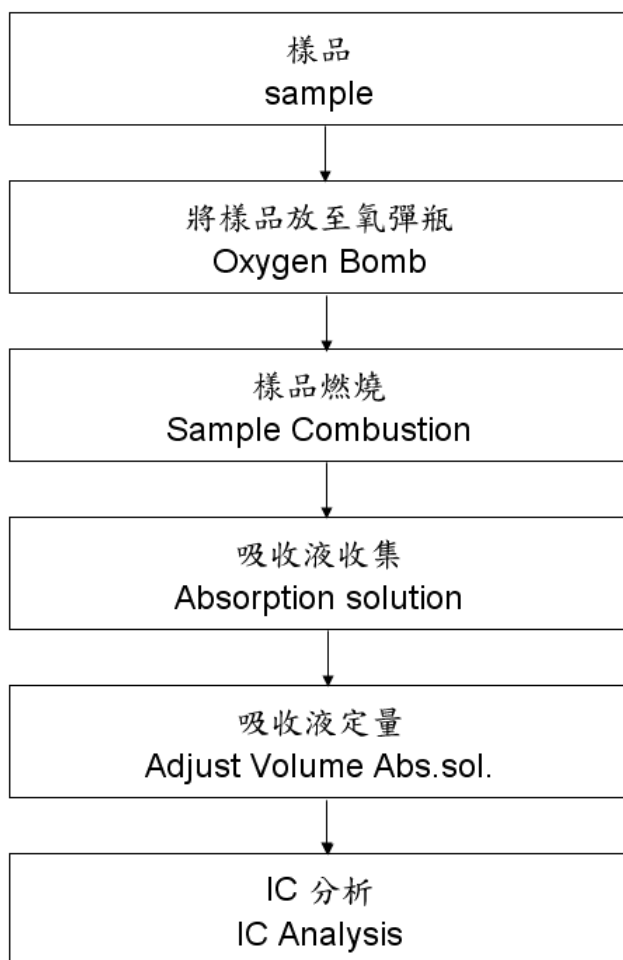
Flow Chart of Extraction-IEC 62321 for PBB、PBDE



Flow Chart of Extraction for Phthalates

33383 桃園市龜山區文明路 29 巷 8 號 ● 03-328-0026 ● www.etc.org.tw

No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C. ● 03-328-0026 ● www.etc.org.tw



Flow Chart of Extraction for Halogen

---報告結尾/ End of Report ---