

檢測報告  
Test Report報告編號 A2240141807101001E  
Report No. A2240141807101001E第 1 頁 共 15 頁  
Page 1 of 15報告抬頭公司名稱 日月光半導體製造股份有限公司  
Company Name ADVANCED SEMICONDUCTOR ENGINEERING, INC.  
shown on Report地址 高雄市楠梓區經三路26號  
Address 26. CHIN 3RD RD., NANZIH DIST., KAOHSIUNG, TAIWAN 811, R.O.C.以下測試之樣品及樣品資訊由申請者提供並確認  
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

樣品名稱	Plating Deposit
Sample Name	Plating Deposit
樣品型號	Sn
Model No.	Sn
樣品接收日期	2024.03.20
Sample Received Date	Mar. 20, 2024
樣品檢測日期	2024.03.20-2024.03.26
Testing Period	Mar. 20, 2024 to Mar. 26, 2024

檢測要求 根據客戶要求, 對所提交樣品中的鉛(Pb), 鎘(Cd), 汞(Hg), 六價鉻(Cr(VI)), 多溴聯苯(PBBs), 多溴二苯醚(PBDEs), 鄰苯二甲酸酯, 氟(F), 氯(Cl), 溴, 碘(I), 鄰苯二甲酸酯, 銻(Sb), 鉍(Be), 多氯化萘(PCNs), 多氯三聯苯(PCTs), 多氯聯苯(PCBs), 有機錫, 六溴環十二烷(HBCDD), 聚氯乙烯(PVC), 短鏈氯化石蠟(SCCPs), 全氟辛烷磺酸鹽(PFOS)及其相關物質, 全氟辛酸類(PFOA)相關物質及其鹽進行測試。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Phthalates, Antimony(Sb), Beryllium(Be), Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls(PCBs), Organotin compounds, Hexabromocyclododecane (HBCDD), Polyvinyl Chloride (PVC), Short Chain Chlorinated Paraffins (SCCPs), PFOS and Related Substances, Perfluorooctanoic acid related substances and Its Salts in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。  
Test Method/Test Result(s) Please refer to the following page(s).

徐啟瑞

徐啟瑞

實驗室經理 Laboratory Manager

日期  
Date

2024.03.27

No. R392332211

桃園市蘆竹區南崁路二段9號5樓之6

5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

# 檢測報告

## Test Report

報告編號 A2240141807101001E

Report No. A2240141807101001E

第 2 頁 共 15 頁

Page 2 of 15

**檢測依據 Test Method**

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
全氟辛烷磺酸及全氟辛酸物質 Perfluorooctane sulfonates and Perfluorooctanoic acid substances (PFOS & PFOA)	參考DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS
鉛 Lead (Pb)	IEC 62321-5:2013	ICP-OES
鎘 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六價鉻 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
多溴聯苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
氟 Fluorine(F)	參考EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine(Cl)	參考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine(Br)	參考EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine(I)	參考EN 14582:2016 Refer to EN 14582:2016	IC
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
銻 Antimony(Sb)	參考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
鈹 Beryllium(Be)	參考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
多氯化萘 Polychlorinated Naphthalenes (PCNs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS

# 檢測報告

## Test Report

報告編號 A2240141807101001E

Report No. A2240141807101001E

第 3 頁 共 15 頁

Page 3 of 15

**檢測依據 Test Method**

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
多氯三聯苯 Polychlorinated terphenyls (PCTs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
多氯聯苯 Polychlorinated Biphenyls(PCBs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
有機錫 Organotin compounds	參考US EPA 3550C:2007 & ISO 17353:2004 Refer to US EPA 3550C:2007 & ISO 17353:2004	GC-MS
六溴環十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-6:2015	GC-MS
聚氯乙烯 Polyvinyl Chloride (PVC)	參考JY/T 001-1996 Refer to JY/T 001-1996	FT-IR
短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS(NCI)

# 檢測報告

## Test Report

報告編號 A2240141807101001E

Report No. A2240141807101001E

第 4 頁 共 15 頁

Page 4 of 15

**檢測結果 Test Result(s)**

測試項目 Tested Item(s)	CAS No.	結果 Result	方法檢出限 MDL
		001	
全氟辛基磺酸 Perfluorooctanesulfonic acid (PFOS)	1763-23-1	N.D.	0.01 mg/kg
氟蟲胺 N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基-辛磺醯胺 N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.05 mg/kg
N-乙基全氟辛基磺醯胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-(2-羥乙基)-N-甲基-1-辛基磺醯胺 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.05 mg/kg
全氟辛酸 Perfluorooctanoic Acid (PFOA)	335-67-1	N.D.	0.01 mg/kg
全氟辛烷磺醯胺 Perfluorooctane sulfonamide (PFOSA)	754-91-6	N.D.	0.01 mg/kg

# 檢測報告

## Test Report

報告編號 A2240141807101001E  
 Report No. A2240141807101001E

第 5 頁 共 15 頁  
 Page 5 of 15

### 全氟辛烷磺酸和全氟辛酸清單 List of Perfluorooctanesulfonic acid and Perfluorooctanoic acid

物質名稱 Substance Name(s)	CAS No.
<b>全氟辛烷磺酸 Perfluorooctanesulfonic acid (PFOS)</b>	
全氟辛烷磺酸鉀 (PFOS-K) Perfluorooctanesulfonic acid, potassium salt	2795-39-3
全氟辛烷磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt	29457-72-5
全氟辛烷磺酸銨 (PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt	29081-56-9
全氟辛烷磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt	70225-14-8
全氟辛烷磺酸四乙基銨 (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ) Perfluorooctanesulfonic acid, tetraethylammonium salt	56773-42-3
全氟辛烷磺酸二癸二甲基銨 (PFOS-DDA) Didecyl dimethyl ammonium perfluorooctane sulfonate	251099-16-8
全氟辛烷磺酰氟 (PFOSF) Perfluoro-1-octanesulfonyl fluoride	307-35-7
全氟辛烷磺酸鈉 (PFOS-Na) Sodium perfluorooctane sulfonate	4021-47-0
全氟辛烷磺酸鎂 (PFOS-Mg) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1)	91036-71-4
全氟辛基磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 heptafluorooctanesulfonate	71463-74-6
<b>全氟辛酸 Perfluorooctanoic acid (PFOA)</b>	
全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate	3825-26-1
全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate	335-95-5
全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate	2395-00-8
全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanoate	335-93-3
全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride	335-66-0

# 檢測報告

## Test Report

報告編號 A2240141807101001E  
 Report No. A2240141807101001E

第 6 頁 共 15 頁  
 Page 6 of 15

### 檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
鉛 Lead (Pb)	10 mg/kg	2 mg/kg
鎘 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 µg/cm <sup>2</sup> (LOQ)
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
<b>多溴聯苯 Polybrominated Biphenyls (PBBs)</b>		
一溴聯苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5 mg/kg

# 檢測報告

## Test Report

報告編號 A2240141807101001E  
 Report No. A2240141807101001E

第 7 頁 共 15 頁  
 Page 7 of 15

### 檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
<b>鄰苯二甲酸酯 Phthalates</b>		
鄰苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
鄰苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
氟 Fluorine (F)	N.D.	50 mg/kg
氯 Chlorine (Cl)	N.D.	50 mg/kg
溴 Bromine (Br)	N.D.	50 mg/kg
碘 Iodine (I)	N.D.	50 mg/kg

# 檢測報告

## Test Report

報告編號 A2240141807101001E  
 Report No. A2240141807101001E

第 8 頁 共 15 頁  
 Page 8 of 15

### 檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
鄰苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg
鄰苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
鄰苯二甲酸二異癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
鄰苯二甲酸二異壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
鄰苯二甲酸烷基酯(C6-8支型結構,C7富 集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6	N.D.	50 mg/kg
鄰苯二甲酸烷基酯(C7-11支型和線性結 構) 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
銻 Antimony (Sb)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
鈹 Beryllium (Be)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
多氯化萘 Polychlorinated Naphthalenes (PCNs)	N.D.	5 mg/kg



# 檢測報告

## Test Report

報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 9 頁 共 15 頁  
Page 9 of 15

### 檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
多氯三聯苯 Polychlorinated Triphenyls (PCTs)	N.D.	0.5 mg/kg
<b>多氯聯苯 Polychlorinated Biphenyls(PCBs)</b>		
一氯聯苯 Monochlorobiphenyl	N.D.	0.5 mg/kg
二氯聯苯 Dichlorobiphenyl	N.D.	0.5 mg/kg
三氯聯苯 Trichlorobiphenyl	N.D.	0.5 mg/kg
四氯聯苯 Tetrachlorobiphenyl	N.D.	0.5 mg/kg
五氯聯苯 Pentachlorobiphenyl	N.D.	0.5 mg/kg
六氯聯苯 Hexachlorobiphenyl	N.D.	0.5 mg/kg
七氯聯苯 Heptachlorobiphenyl	N.D.	0.5 mg/kg
八氯聯苯 Octachlorobiphenyl	N.D.	0.5 mg/kg
九氯聯苯 Nonachlorobiphenyl	N.D.	0.5 mg/kg
十氯聯苯 Decachlorobiphenyl	N.D.	0.5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
<b>有機錫 Organotin compounds</b>		
二丁基錫 Dibutyltin (DBT)	N.D.	0.03 mg/kg
二辛基錫 Dioctyltin (DOT)	N.D.	0.03 mg/kg
三丁基錫 Tributyltin (TBT)	N.D.	0.03 mg/kg
三苯基錫 Triphenyltin (TPHT)	N.D.	0.03 mg/kg
三丁基氧化錫 Tributyltin oxide (TBTO)*	N.D.	0.03 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
六溴環十二烷 Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
聚氯乙烯 Polyvinyl Chloride (PVC)	陰性 Negative	/
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)	N.D.	100 mg/kg

## 檢測報告 Test Report

報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 10 頁 共 15 頁  
Page 10 of 15

### 樣品/部位描述 Sample/Part Description

序號 No.	CTI樣品ID CTI Sample ID	描述 Description
1	001	樣品描述請參見照片 See the sample photo for your information

備註: 對於檢測鉛, 鎘, 汞, 銻, 鉍之樣品已消解完全。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-LOQ = 定量限, 六價鉻的定量限為0.10  $\mu\text{g}/\text{cm}^2$

-▼六價鉻濃度小於0.10  $\mu\text{g}/\text{cm}^2$ , 樣品未檢出六價鉻。由於未獲知樣品的存儲條件和生產日期, 樣品的六價鉻測試結果僅能代表測試時樣品含六價鉻的狀態。

-陰性表示不含有聚氯乙烯(PVC)

-\*=三丁基氧化錫的濃度值是由三丁基錫結果換算而來。

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Antimony, Beryllium.**

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

-Negative = Not contained Polyvinyl Chloride(PVC)

-\*=Concentration value of Tributyltin oxide by the conversion from the test results of Tributyl Tins.

注釋: 本報告中的資料結果供科研、教學、企業內部品質控制、企業產品研發等目的用。

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

# 檢測報告 Test Report

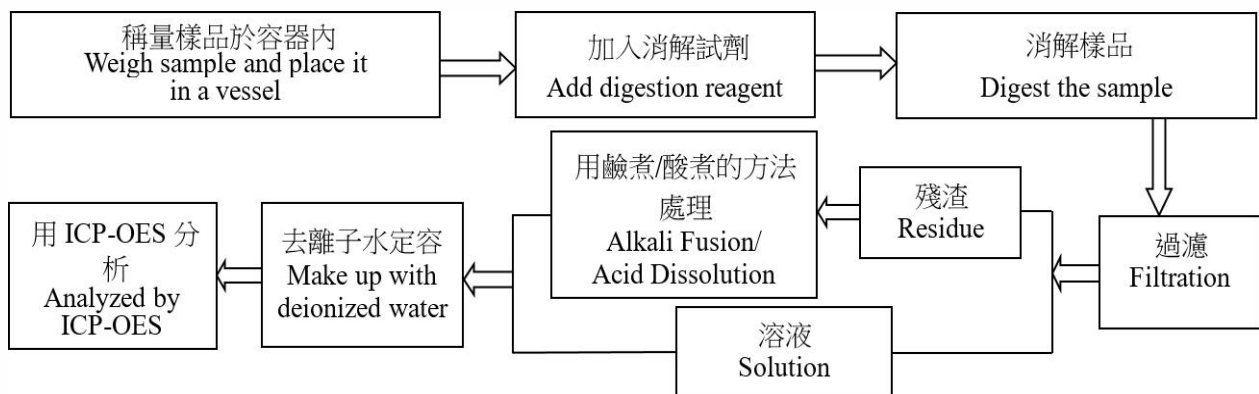
報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 11 頁 共 15 頁  
Page 11 of 15

## 檢測流程 Test Process

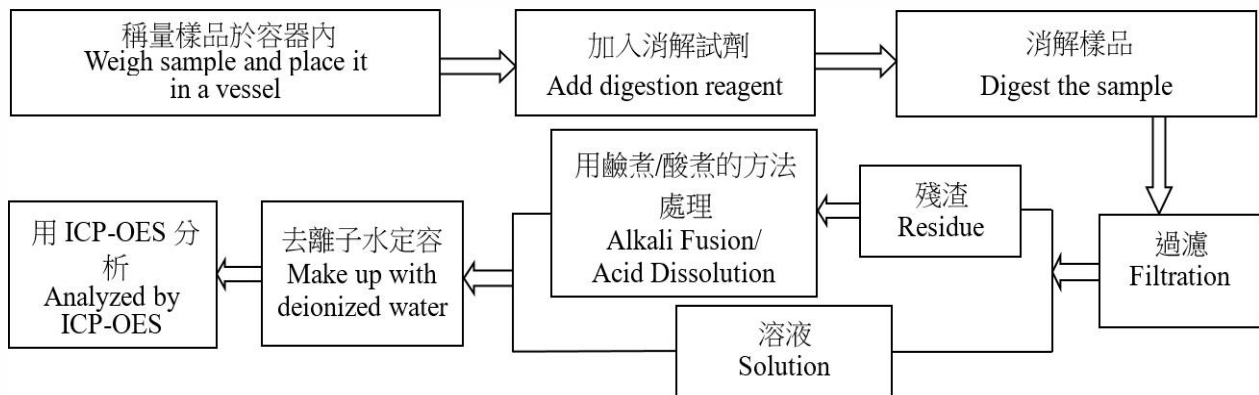
### 1. 鉛(Pb), 鎘(Cd)

Lead (Pb), Cadmium (Cd)



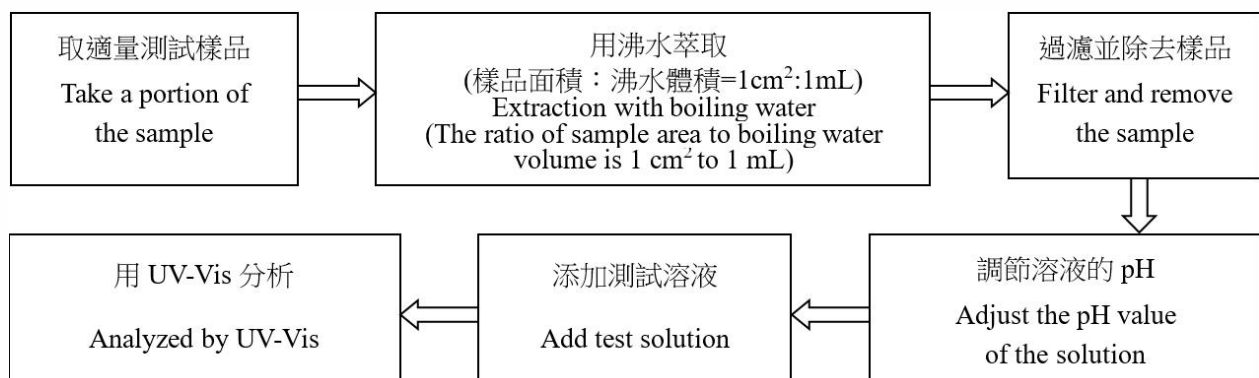
### 2. 汞(Hg)

Mercury (Hg)



### 3. 六價鉻(Cr(VI))

Hexavalent Chromium (Cr(VI))



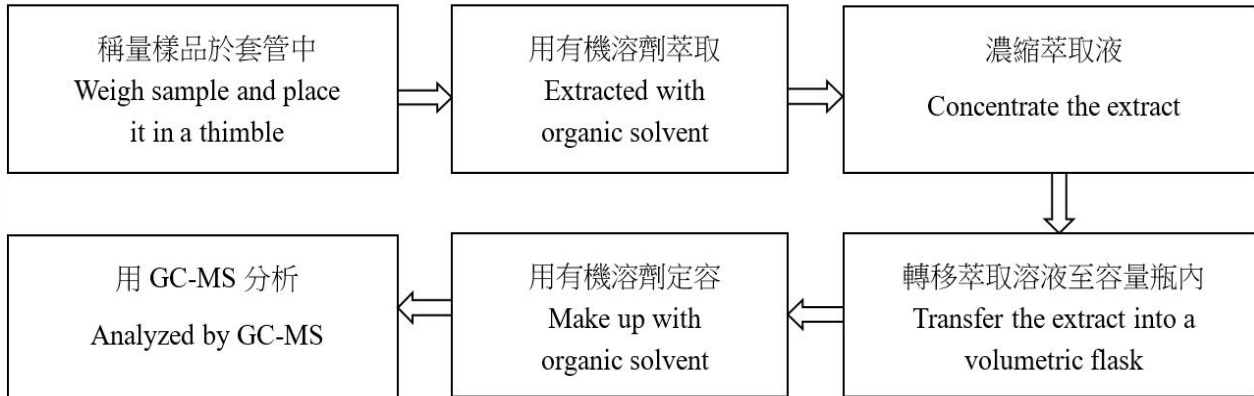
# 檢測報告 Test Report

報告編號 A2240141807101001E  
Report No. A2240141807101001E

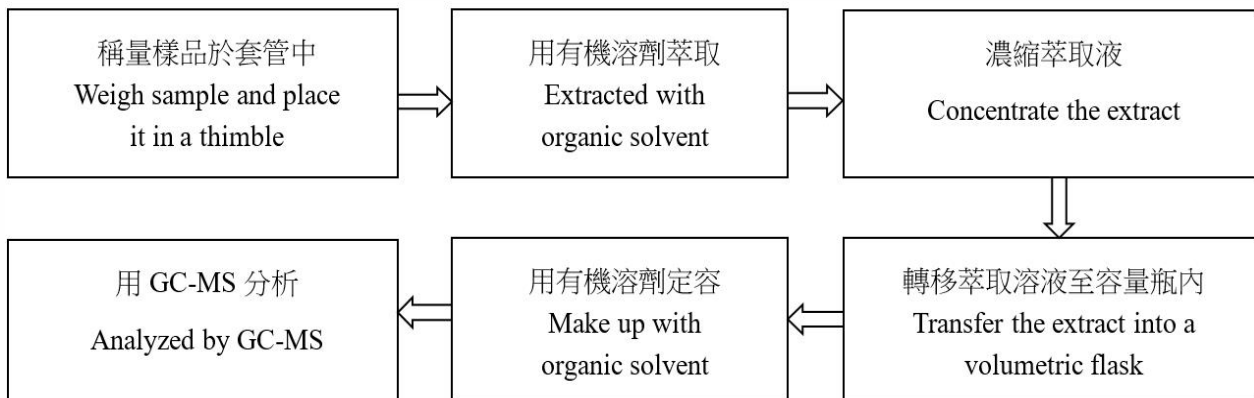
第 12 頁 共 15 頁  
Page 12 of 15

## 4. 多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，六溴環十二烷(HBCDD)

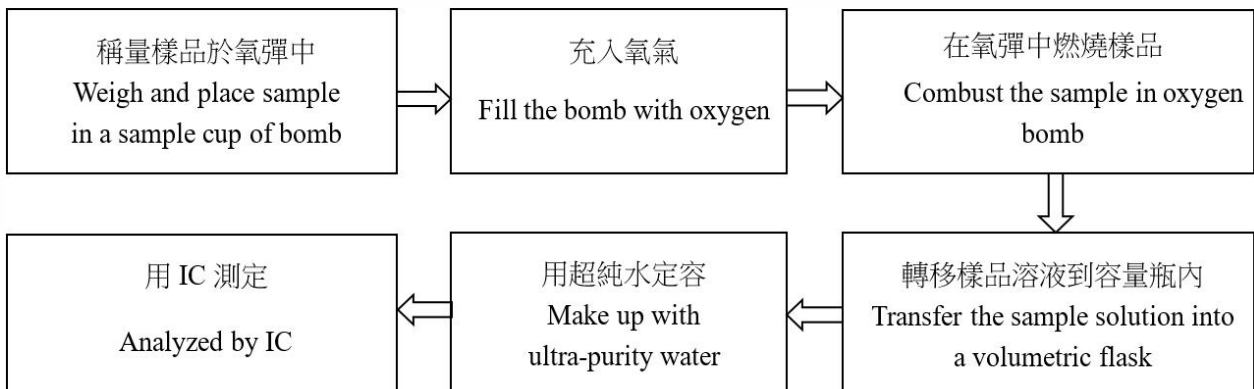
**Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Hexabromocyclododecane (HBCDD)**



## 5. 鄰苯二甲酸酯 Phthalates



## 6. 氟(F)，氯(Cl)，溴，碘(I) Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I)

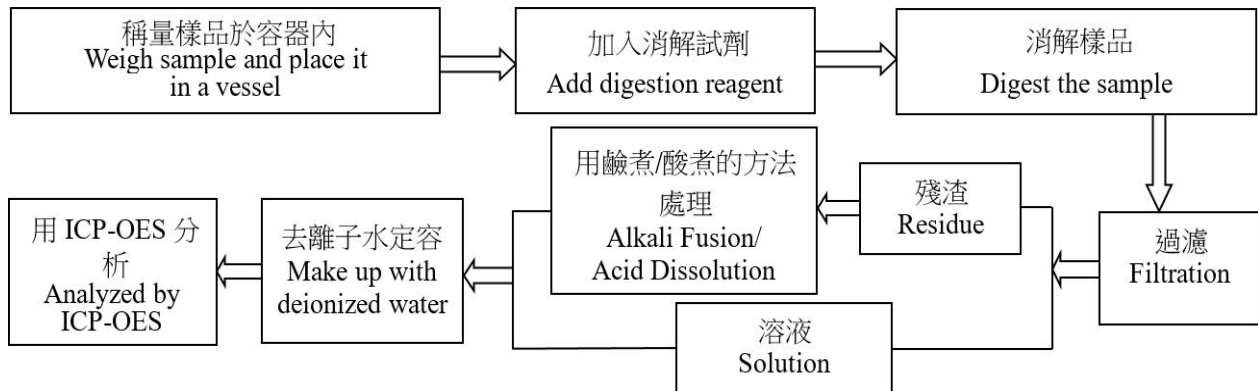


# 檢測報告 Test Report

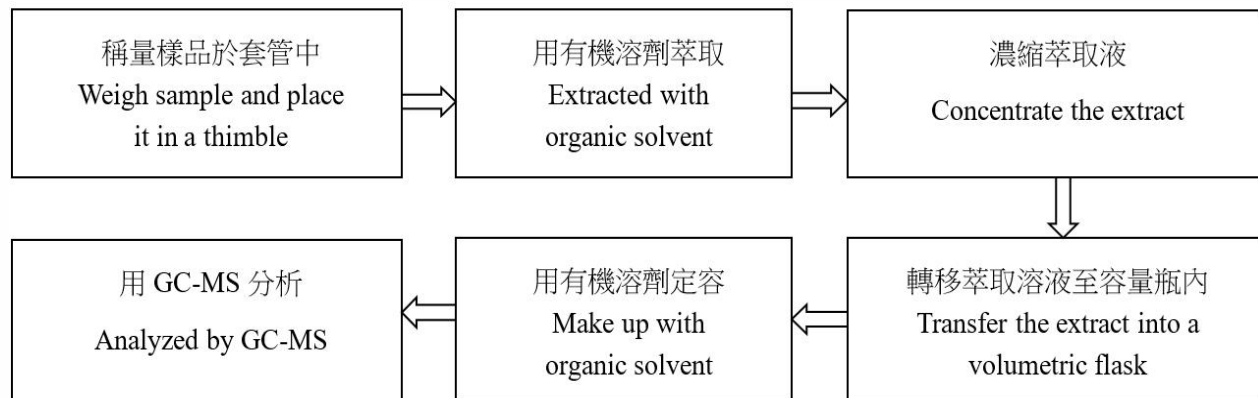
報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 13 頁 共 15 頁  
Page 13 of 15

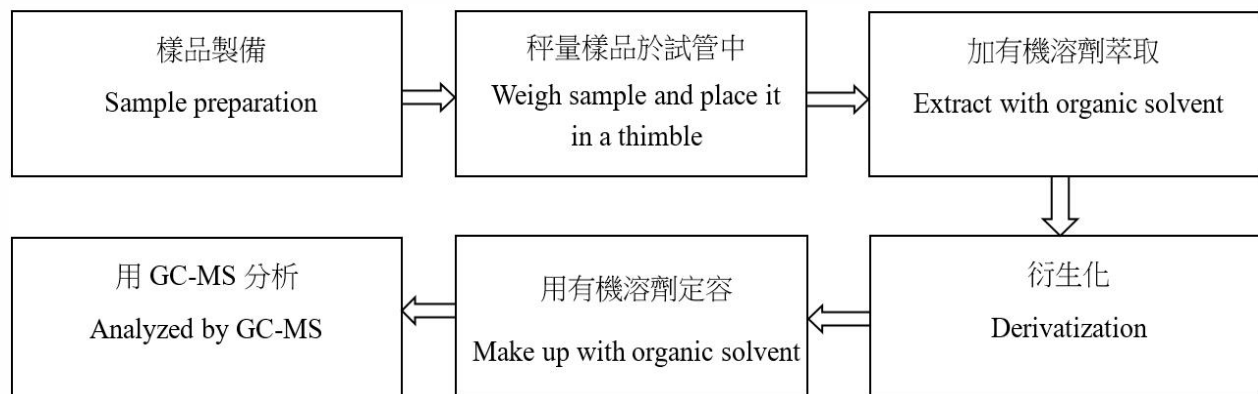
**7. 銻 (Sb), 鈹 (Be)**  
**Antimony(Sb), Beryllium(Be)**



**8. 多氯化萘(PCNs), 多氯三聯苯(PCTs), 多氯聯苯(PCBs)**  
**Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls(PCBs)**



**9. 有機錫**  
**Organotin compounds**



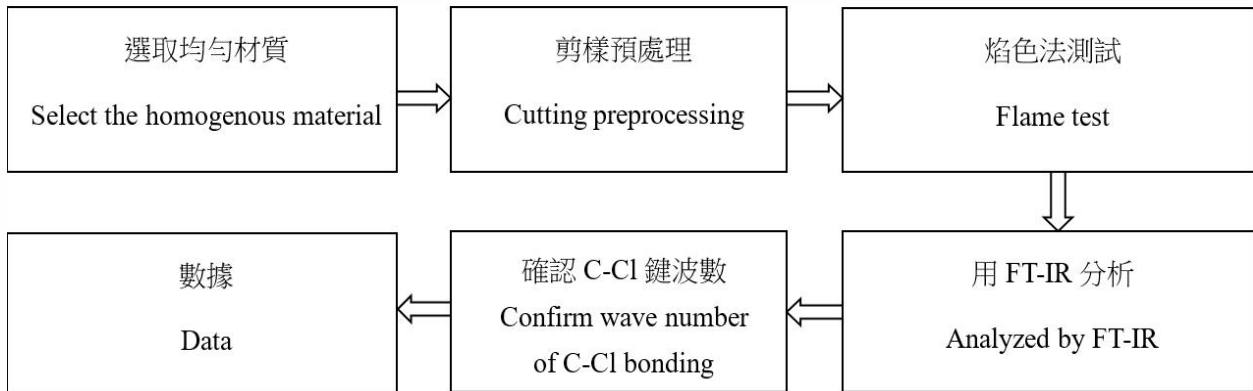
# 檢測報告 Test Report

報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 14 頁 共 15 頁  
Page 14 of 15

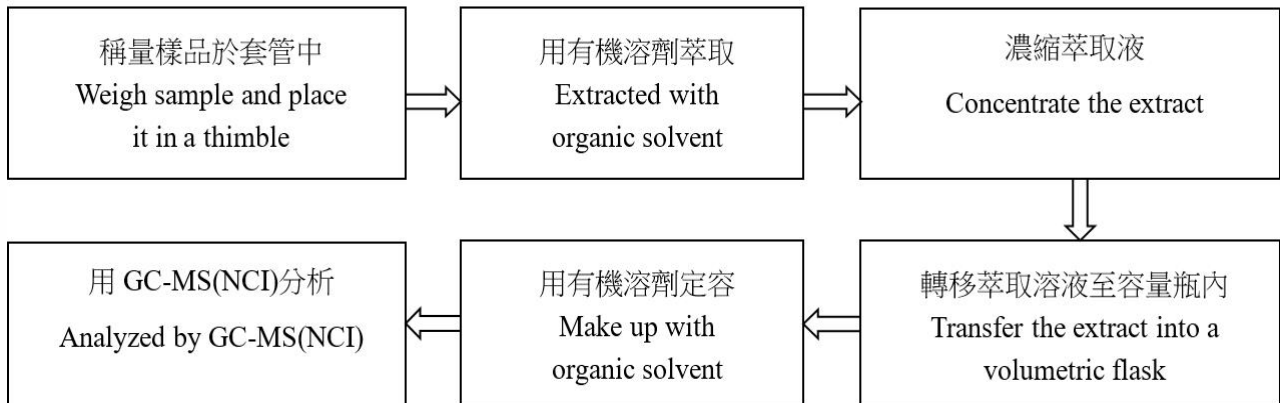
## 10. 聚氯乙烯(PVC)

Polyvinyl Chloride (PVC)



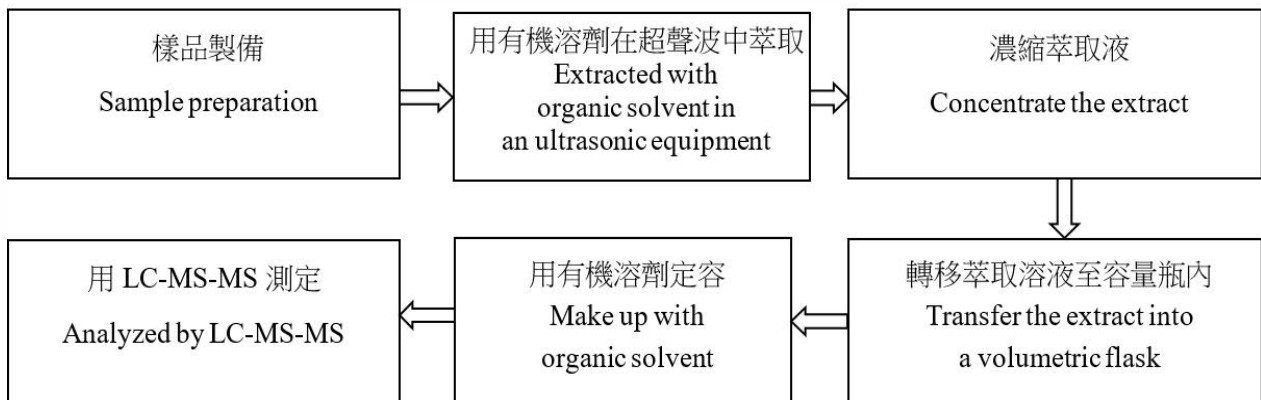
## 11. 短鏈氯化石蠟(SCCPs)

Short Chain Chlorinated Paraffins (SCCPs)



## 12. 全氟辛酸類(PFOA)相關物質及其鹽，全氟辛烷磺酸鹽(PFOS)及其相關物質

Perfluorooctanoic acid related substances and Its Salts, PFOS and Related Substances



# 檢測報告 Test Report

報告編號 A2240141807101001E  
Report No. A2240141807101001E

第 15 頁 共 15 頁  
Page 15 of 15

## 樣品圖片 Photo(s) of the sample(s)



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