

**Test Report** 

號碼(No.): ETR23C04315 日期(Date): 04-Jan-2024 頁數(Page): 1 of 18

泰國太平洋電線電纜有限公司 (SIAM PACIFIC ELECTRIC WIRE & CABLE CO., LTD.) 8 MOO 5 TIWANON RD, T. BANMAI A.MUANG PATHUMTHANI 12000 THAILAND

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 the applicant as):

送樣廠商(Sample Submitted By)

泰國太平洋電線電纜有限公司 (SIAM PACIFIC ELECTRIC WIRE & CABLE CO., LTD.)

樣品名稱(Sample Name)

MAGNET WIRE

樣品型號(Style/Item No.)

COPPER MAGNET WIRE

1. UEW-## INCLUDE UEW-U / UEW-NY / UEW-FV / UEW-VY / UEW-H

(NATURAL- RED- YELLOW)

2. AEW-## (INCLUDE AIW, ACW)

3. PEW-## PEW-FU (NATURAL- RED- YELLOW) / PEW-FY (NATURAL- RED-

YELLOW)
4. PVF

5. SELF-BONDING

**ALUMINUM MAGNET WIRE** 

AL-UEW/AEW/PEW (NATURAL- RED)

收件日(Sample Receiving Date)

: 25-Dec-2023

測試期間(Testing Period)

: 25-Dec-2023 to 04-Jan-2024

測試需求(Test Requested)

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).)

測試結果(Test Results)

請參閱下一頁 (Please refer to following pages.)





PIN CODE: 54AC9889



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測試部位敘述 (Test Part Description)

No.1 : 整體混測 (MIXED ALL PARTS)

#### 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
鎘 (Cd) (Cadmium (Cd))	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	No.1 n.d.
鉛 (Pb) (Lead (Pb))	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.
汞 (Hg) (Mercury (Hg))	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.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	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.
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)	● 参考IEC 62321-6: 2015,以氣相層析儀/質譜	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)	2015, analysis was performed by GC/MS.)	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.



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
(Test items)	(Method)	(OIIII)		No.1
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)	參考IEC 62321-6: 2015·以氣相層析儀/質譜	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	儀分析。(With reference to IEC 62321-6:	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	2015, analysis was performed by GC/MS.)	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	ı	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (BBP))	儀分析。(With reference to IEC 62321-8:			
	2017, analysis was performed by GC/MS.)			
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017·以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (DBP))	儀分析。(With reference to IEC 62321-8:			
	2017, analysis was performed by GC/MS.)			
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	參考IEC 62321-8: 2017·以氣相層析儀/質譜	mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP))	儀分析。(With reference to IEC 62321-8:			
	2017, analysis was performed by GC/MS.)			
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (DIBP))	儀分析。(With reference to IEC 62321-8:	3 3		
	2017, analysis was performed by GC/MS.)			
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (DIDP)) (CAS No.: 26761-40-	儀分析。(With reference to IEC 62321-8:	5, 5		
0, 68515-49-1)	2017, analysis was performed by GC/MS.)			
娜苯二甲酸二異壬酯 (DINP) (Diisononyl	参考IEC 62321-8: 2017,以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (DINP)) (CAS No.: 28553-12-	儀分析。(With reference to IEC 62321-8:	פיי יפיי	- •	
0, 68515-48-0)	2017, analysis was performed by GC/MS.)			
郷苯二甲酸二正辛酯 (DNOP) (Di-n-octyl	参考IEC 62321-8: 2017,以氣相層析儀/質譜	mg/kg	50	n.d.
phthalate (DNOP)) (CAS No.: 117-84-0)	儀分析。(With reference to IEC 62321-8:	פיי יפייי		
	2017, analysis was performed by GC/MS.)			
	2027, analysis was performed by Ge/1915.)			



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(Test Items)	(Method)	(Unit)		(Result)
				No.1
六溴環十二烷及所有主要被辨別出的異構	參考IEC 62321-9: 2021,以氣相層析儀/質譜	mg/kg	20	n.d.
物(HBCDD) (α- HBCDD, β- HBCDD, γ-	儀分析。(With reference to IEC 62321-9:			
HBCDD) (Hexabromocyclododecane	2021, analysis was performed by GC/MS.)			
(HBCDD) and all major				
diastereoisomers identified ( $\alpha$ - HBCDD,				
β- HBCDD, γ- HBCDD)) (CAS No.:				
25637-99-4, 3194-55-6 (134237-51-7,				
134237-50-6, 134237-52-8))				
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-	參考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
8)	析。(With reference to BS EN 14582: 2016,			
	analysis was performed by IC.)			
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	參考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
15-1)	析。(With reference to BS EN 14582: 2016,			
	analysis was performed by IC.)			
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	參考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
32-2)	析。(With reference to BS EN 14582: 2016,			
	analysis was performed by IC.)			
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	參考BS EN 14582: 2016,以離子層析儀分	mg/kg	50	n.d.
	析。(With reference to BS EN 14582: 2016,			
	analysis was performed by IC.)			
全氟辛烷磺酸 (PFOS) (Perfluorooctane	參考CEN/TS 15968: 2010,以液相層析串聯	mg/kg	0.01	n.d.
sulfonates (PFOS)) (CAS No.: 1763-23-	質譜儀分析。(With reference to CEN/TS			
1)	15968: 2010, analysis was performed by			
	LC/MS/MS.)			
全氟辛基磺酸鉀 (PFOS-K) (Potassium	由全氟辛烷磺酸測試結果計算得之。	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonate (PFOS-K))	(Calculated from the result of PFOS.)			
(CAS No.: 2795-39-3)				



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
全氟辛基磺酸鋰 (PFOS-Li) (Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)) (CAS No.: 29457-72-5)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.
全氟辛基磺酸銨 (PFOS-NH4) (Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)) (CAS No.: 29081-56-9)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.
全氟辛基磺酸二乙醇銨 (PFOS-NH(OH)2) (Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)) (CAS No.: 70225-14-8)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.
全氟辛基磺酸四乙基銨 (PFOS-N(C2H5)4) (Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS- N(C2H5)4)) (CAS No.: 56773-42-3)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.
全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) (N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)) (CAS No.: 251099-16-8)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01 ▲	n.d.
全氟辛基磺醯氟 (POSF) (Perfluorooctane sulfonyl fluoride (POSF)) (CAS No.: 307- 35-7)		mg/kg	0.01▲	n.d.
全氟辛基磺酸鎂 (PFOS-Mg) (Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)) (CAS No.: 91036-71-4)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟辛基磺酸鈉 (PFOS-Na)	由全氟辛烷磺酸測試結果計算得之。	mg/kg	0.01▲	n.d.
(Perfluorooctanesulfonic acid, sodium	(Calculated from the result of PFOS.)			
salt (PFOS-Na)) (CAS No.: 4021-47-0)				
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-	參考CEN/TS 15968: 2010,以液相層析串聯	mg/kg	0.01	n.d.
ethylperfluoro-1-octanesulfonamide	質譜儀分析。(With reference to CEN/TS			
(EtFOSA)) (CAS No.: 4151-50-2)	15968: 2010, analysis was performed by			
	LC/MS/MS.)			
N-甲基全氟正辛磺醯胺 (N-Me-FOSA)	參考CEN/TS 15968: 2010 · 以液相層析串聯	mg/kg	0.01	n.d.
(N-Methyl-Perfluoroctanesulfonamide	質譜儀分析。(With reference to CEN/TS			
(N-Me-FOSA)) (CAS No.: 31506-32-8)	15968: 2010, analysis was performed by			
	LC/MS/MS.)			
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE	參考CEN/TS 15968: 2010 · 以液相層析串聯	mg/kg	0.01	n.d.
alcohol) (N-Ethyl-	質譜儀分析。(With reference to CEN/TS			
Perfluoroctanesulfonamidoethanol (N-	15968: 2010, analysis was performed by			
Et-FOSE alcohol)) (CAS No.: 1691-99-2)				
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE		mg/kg	0.01	n.d.
alcohol) (N-Methyl-	質譜儀分析。(With reference to CEN/TS			
Perfluoroctanesulfonamidoethanol (N-	15968: 2010, analysis was performed by			
Me-FOSE alcohol)) (CAS No.: 24448-	LC/MS/MS.)			
09-7)				
全氟辛基磺醯胺 (PFOSA)	參考CEN/TS 15968: 2010,以液相層析串聯	mg/kg	0.01	n.d.
(Perfluoroctanesulfonamide (PFOSA))	質譜儀分析。(With reference to CEN/TS			
(CAS No.: 754-91-6)	15968: 2010, analysis was performed by			
	LC/MS/MS.)			



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(Test Items)	(Method)	(Unit)		(Result)
全氟辛酸(PFOA) (Perfluorooctanoic	参考CEN/TS 15968: 2010,以液相層析串聯	mg/kg	0.01	<b>No.1</b> n.d.
Acid (PFOA)) (CAS No.: 335-67-1)	質譜儀分析。(With reference to CEN/TS	<i>J. J</i>		
	15968: 2010, analysis was performed by LC/MS/MS.)			
全氟辛酸鈉 (PFOA-Na ) (Sodium	由全氟辛酸測試結果計算得之。(Calculated	mg/kg	0.01 ▲	n.d.
perfluorooctanoate (PFOA-Na )) (CAS	from the result of PFOA.)			
No.: 335-95-5)				
全氟辛酸鉀 (PFOA-K ) (Potassium	由全氟辛酸測試結果計算得之。(Calculated	mg/kg	0.01▲	n.d.
perfluorooctanoate (PFOA-K)) (CAS	from the result of PFOA.)			
No.: 2395-00-8)				
全氟辛酸銀 (PFOA-Ag ) (Silver	由全氟辛酸測試結果計算得之。(Calculated	mg/kg	0.01 ▲	n.d.
perfluorooctanote (PFOA-Ag)) (CAS No.: 335-93-3)	from the result of PFOA.)			
全氟辛氟 (PFOA-F) (Perfluorooctanoyl	由全氟辛酸測試結果計算得之。(Calculated	mg/kg	0.01▲	n.d.
fluoride (PFOA-F)) (CAS No.: 335-66-0)	from the result of PFOA.)			
全氟辛酸銨 (APFO) (Ammonium	由全氟辛酸測試結果計算得之。(Calculated	mg/kg	0.01▲	n.d.
pentadecafluorooctanoate (APFO))	from the result of PFOA.)			
(CAS No.: 3825-26-1)				
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS)	参考CEN/TS 15968: 2010 · 以液相層析串聯	mg/kg	0.01	n.d.
(1H,1H,2H,2H-Perfluorodecanesulfonic	•			
acid (8:2 FTS)) (CAS No.: 39108-34-4)	15968: 2010, analysis was performed by			
	LC/MS/MS.)			



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(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟辛酸甲酯 (Me-PFOA) (Methyl	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
perfluorooctanoate (Me-PFOA)) (CAS	譜儀分析。(With reference to CEN/TS			
No.: 376-27-2)	15968: 2010, analysis was performed by			
	GC/MS.)			
全氟辛酸乙酯 (Et-PFOA) (Ethyl	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
perfluorooctanoate (Et-PFOA)) (CAS	譜儀分析。(With reference to CEN/TS			
No.: 3108-24-5)	15968: 2010, analysis was performed by			
	GC/MS.)			
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-decanol (8:2	譜儀分析。(With reference to CEN/TS			
FTOH)) (CAS No.: 678-39-7)	15968: 2010, analysis was performed by			
	GC/MS.)			
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-Perfluorodecyl	譜儀分析。(With reference to CEN/TS			
acrylate (8:2 FTA)) (CAS No.: 27905-45-	15968: 2010, analysis was performed by			
9)	GC/MS.)			
1H,1H,2H,2H-全氟癸基甲基丙烯酸酯 (8:2	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorodecyl	譜儀分析。(With reference to CEN/TS			
methacrylate (8:2 FTMA)) (CAS No.:	15968: 2010, analysis was performed by			
1996-88-9)	GC/MS.)			
全氟辛基碘烷 (PFOI) (Perfluoro-1-	參考CEN/TS 15968: 2010,以氣相層析儀/質	mg/kg	0.1	n.d.
iodooctane (PFOI)) (CAS No.: 507-63-1)	譜儀分析。(With reference to CEN/TS			
	15968: 2010, analysis was performed by			
	GC/MS.)			



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(Test items)	(iviethod)	(Unit)		No.1
多環芳香烴 (Polycyclic Aromatic				110.2
Hydrocarbons) (PAHs)				
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.:		mg/kg	0.2	n.d.
50-32-8)				
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.:		mg/kg	0.2	n.d.
192-97-2)				
苯駢蒽 (Benzo[a]anthracene) (CAS No.:		mg/kg	0.2	n.d.
56-55-3)				
苯(b)苯駢芴 (Benzo[b]fluoranthene)		mg/kg	0.2	n.d.
(CAS No.: 205-99-2)				
苯(j)苯騈芴 (Benzo[j]fluoranthene) (CAS		mg/kg	0.2	n.d.
No.: 205-82-3)				
苯(k)苯駢芴 (Benzo[k]fluoranthene)		mg/kg	0.2	n.d.
(CAS No.: 207-08-9)	參考AfPS GS 2019:01 PAK,以氣相層析儀/			
蒀 (Chrysene) (CAS No.: 218-01-9)	質譜儀分析。(With reference to AfPS GS	mg/kg	0.2	n.d.
二苯駢蒽 (Dibenzo[a,h]anthracene)	2019:01 PAK, analysis was performed by	mg/kg	0.2	n.d.
(CAS No.: 53-70-3)	GC/MS.)			
苯駢菲 (Benzo[g,h,i]perylene) (CAS No.:		mg/kg	0.2	n.d.
191-24-2)				
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS		mg/kg	0.2	n.d.
No.: 193-39-5)			0.0	
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.
苯駢芴 (Fluoranthene) (CAS No.: 206-		mg/kg	0.2	n.d.
44-0)			0.0	
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.



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#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 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. ▲: MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.) 參數換算表 (Parameter Conversion Table):
  - https://eecloud.sgs.com/Region\_TW/DocDownload.aspx?name=Others
- 6. 樣品的測試是基於申請人要求混合測試‧報告中的混合測試結果不代表其中個別單一材質的含量。
  The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.



### **Test Report**

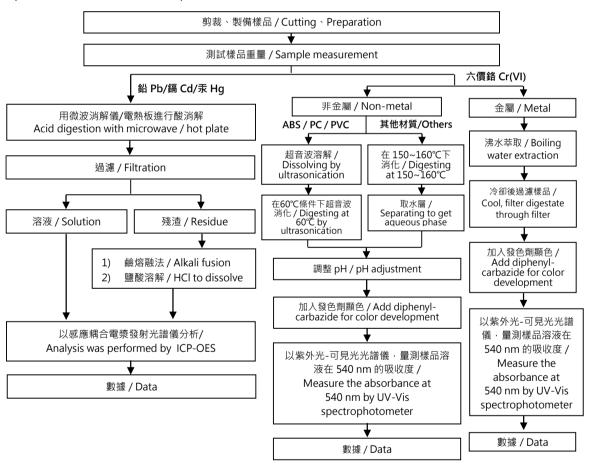
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#### 重金屬流程圖 / Analytical flow chart of heavy metal

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. ( $Cr^{6+}$  test method excluded)



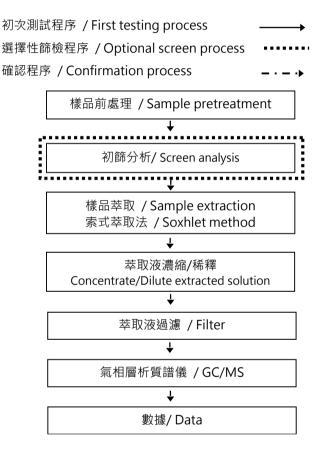


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#### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





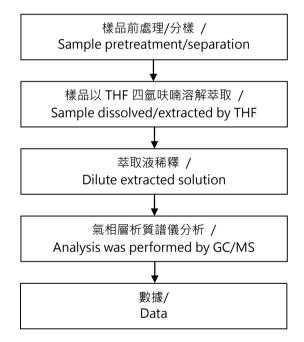
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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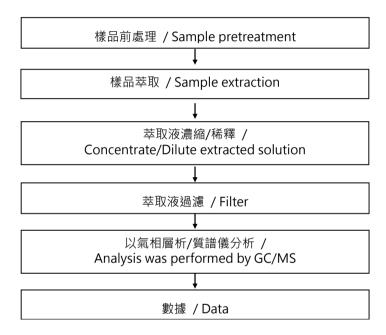


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#### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



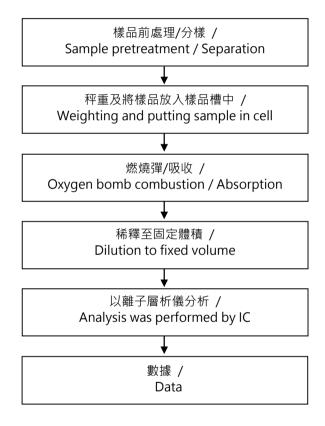


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#### 鹵素分析流程圖 / Analytical flow chart - Halogen



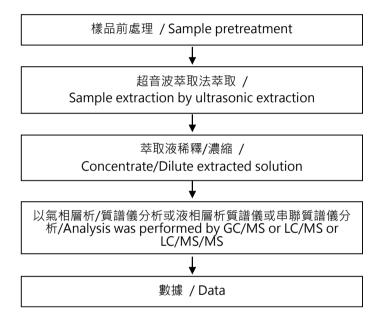


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



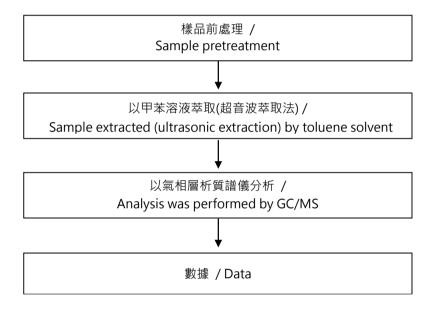


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# 多環芳香烴分析流程圖 / Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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\* 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.)

### ETR23C04315



\*\* 報告結尾 (End of Report) \*\*

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