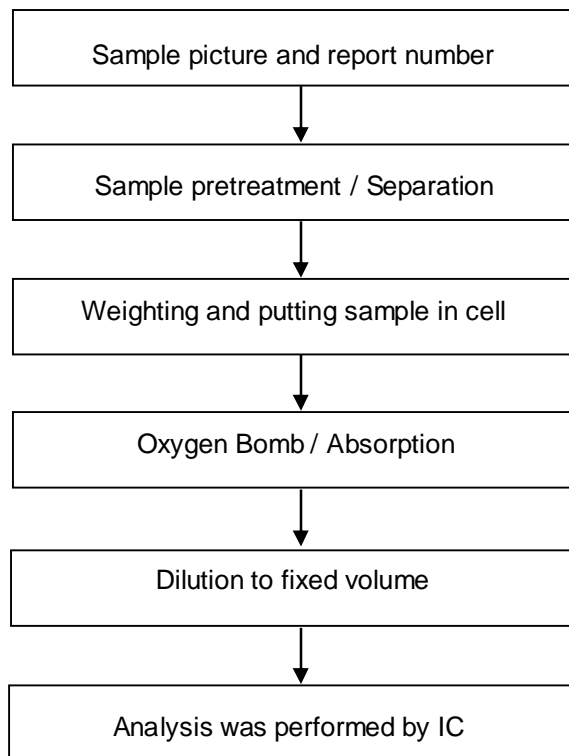


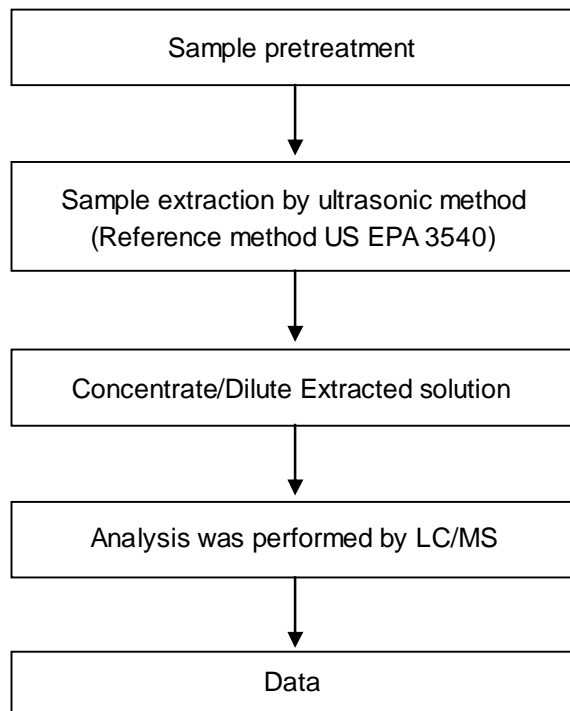


Analytical flow chart of halogen content





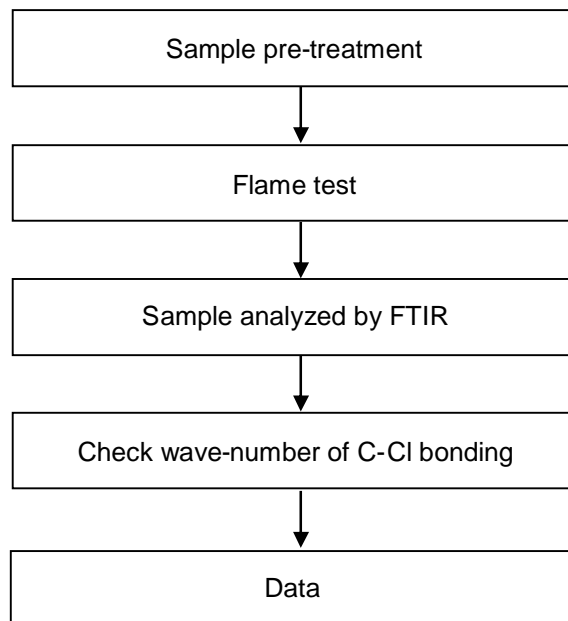
Analytical flow chart of PFOA/PFOS content





Analysis flow chart for determination of PVC in material

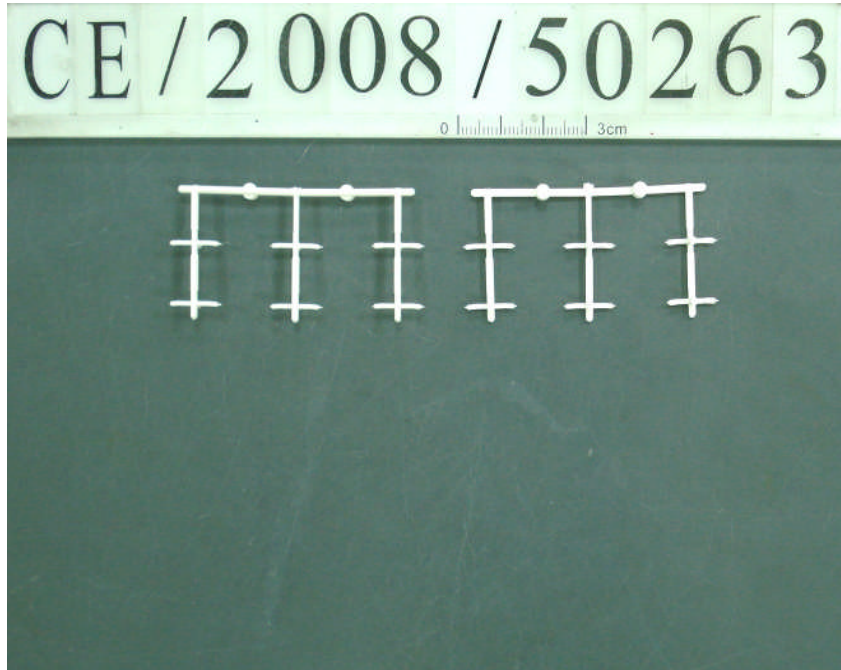
- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Shinjyh Chen



Test Report

No. : CE/2008/50263 Date : 2008/05/08 Page : 14 of 14

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **



Test Report

No. : CE/2008/52561 Date : 2008/05/14 Page : 1 of 4

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MHF PLUG HOUSING
Style/Item No. : 1844-013
Sample Receiving Date : 2008/05/09
Testing Period : 2008/05/09 TO 2008/05/14

=====
Test Result(s) : Please refer to next page(s).

Shin-Jyh Chen
Shinjyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

Test Report

No. : CE/2008/52561 Date : 2008/05/14 Page : 2 of 4

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME NO.1 : WHITE PLASTIC PELLETS

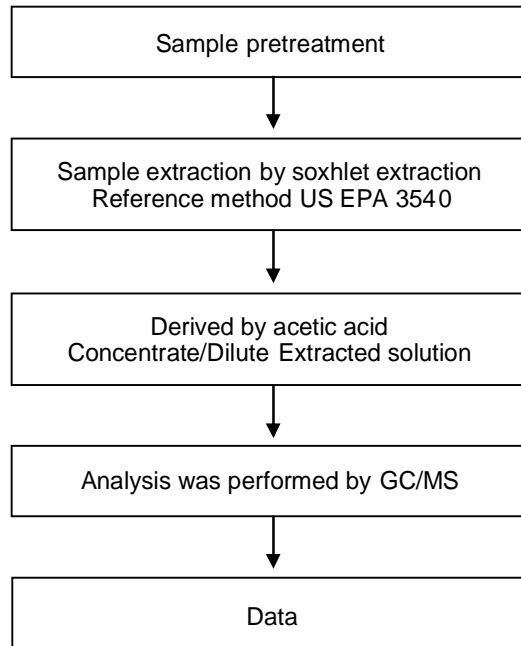
Test Item (s):	Unit	Method	MDL	Result
				No.1
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	5	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit



TBBP-A analytical flow chart

- 1) Name of the person who made measurement: Amanda Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen



Test Report

No. : CE/2008/52561 Date : 2008/05/14 Page : 4 of 4

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **

Test Report

No. : CE/2008/31217 Date : 2008/03/10 Page : 1 of 5


I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MHF PLUG CONTACT
Style/Item No. : 1845-0**
Sample Receiving Date : 2008/03/05
Testing Period : 2008/03/05 TO 2008/03/10

=====
Test Result(s) : Please refer to next page(s).


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

Test Report

No. : CE/2008/31217 Date : 2008/03/10 Page : 2 of 5

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL (INCLUDING THE PLATING LAYER)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	20
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Gold (Au)	mg/kg	With reference to US EPA Method 3050B for Gold Content. Analysis was performed by ICP-AES.	2	6390
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	47400

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. 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

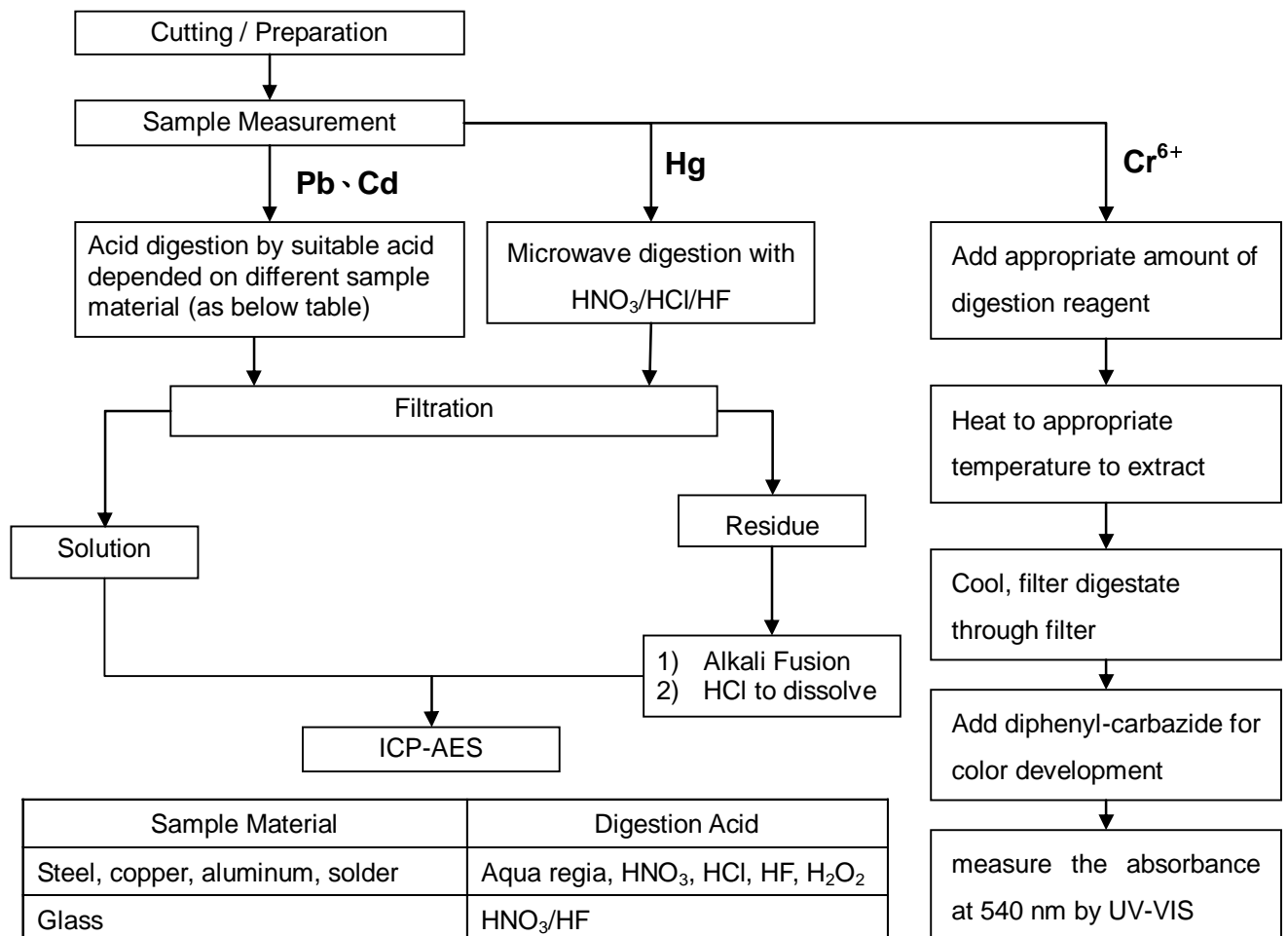
No. : CE/2008/31217 Date : 2008/03/10 Page : 3 of 5

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/31217 Date : 2008/03/10 Page : 4 of 5

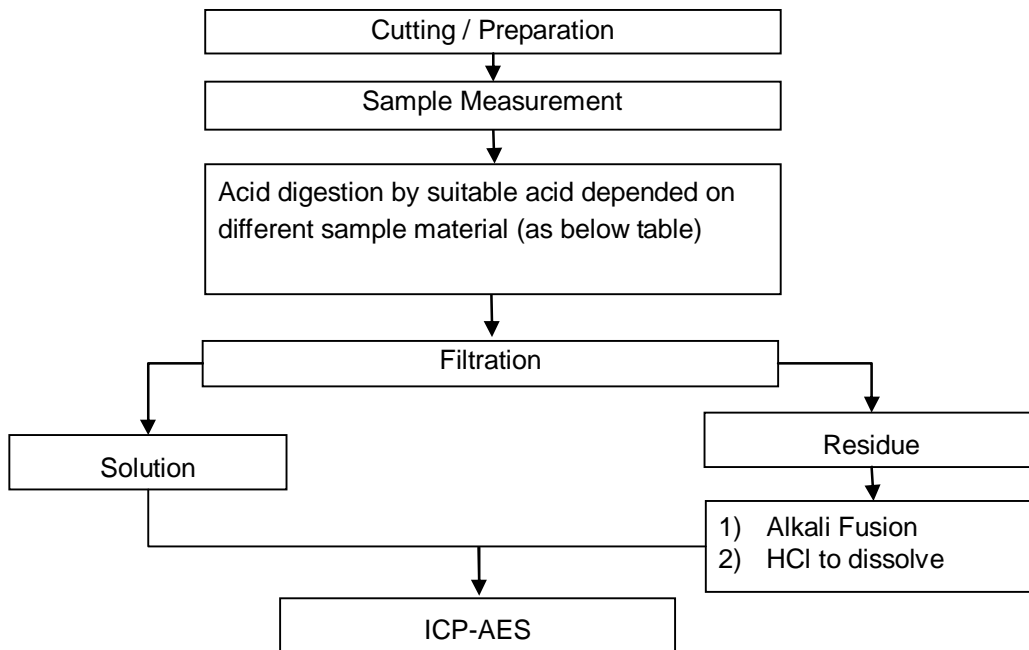
I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/31217 Date : 2008/03/10 Page : 5 of 5

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 1 of 5

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MHF PLUG GROUND CONTACT
Style/Item No. : 1846-0**
Sample Receiving Date : 2008/03/05
Testing Period : 2008/03/05 TO 2008/03/10

=====
Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 2 of 5

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL (INCLUDING THE PLATING LAYER)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	17
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Gold (Au)	mg/kg	With reference to US EPA Method 3050B for Gold Content. Analysis was performed by ICP-AES.	2	2070
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	20600

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. 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

No. : CE/2008/31216 Date : 2008/03/10 Page : 3 of 5

I-PEX JP CO., LTD.

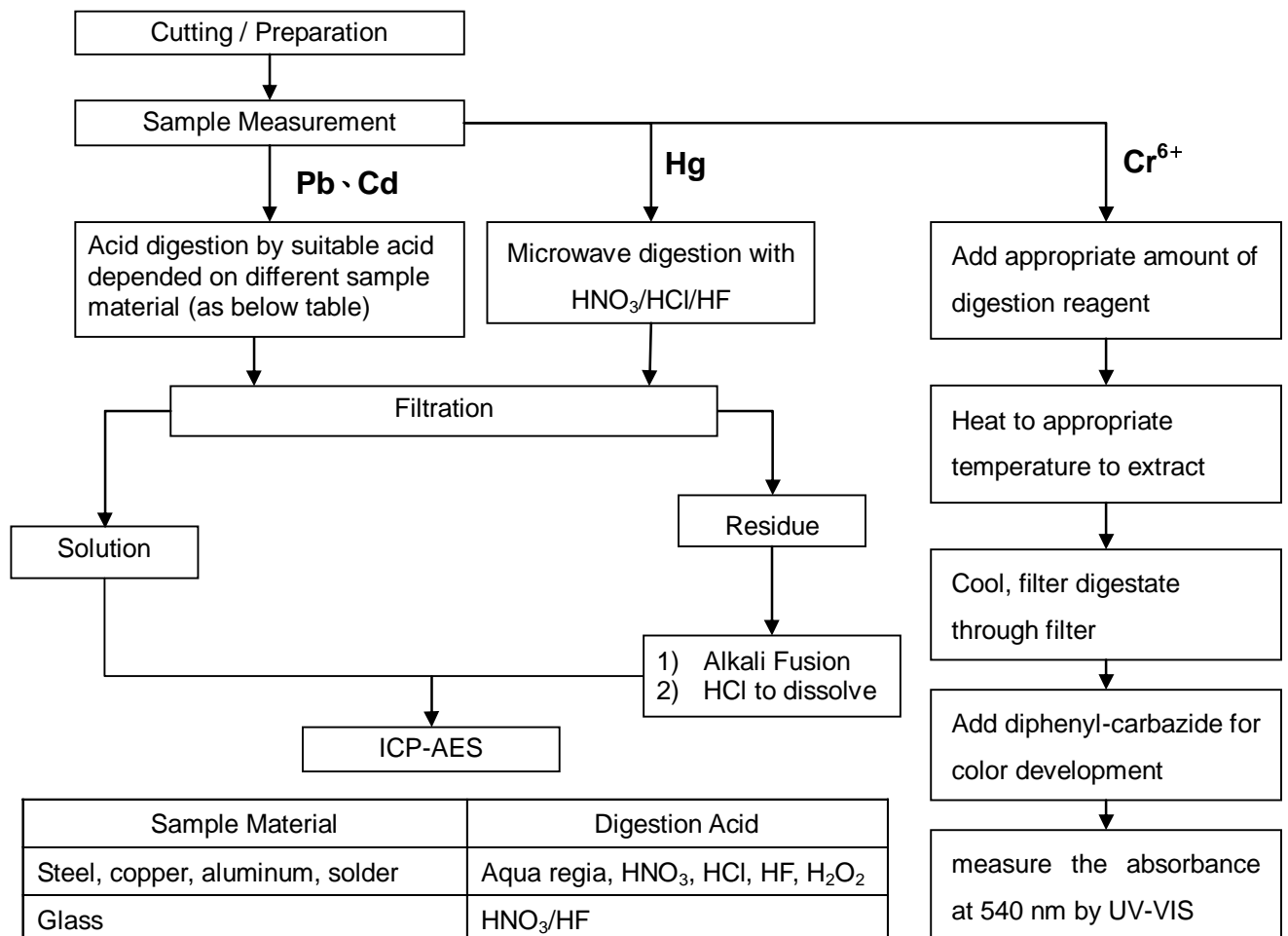
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)

2) Name of the person who made measurement: Troy Chang

3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 4 of 5

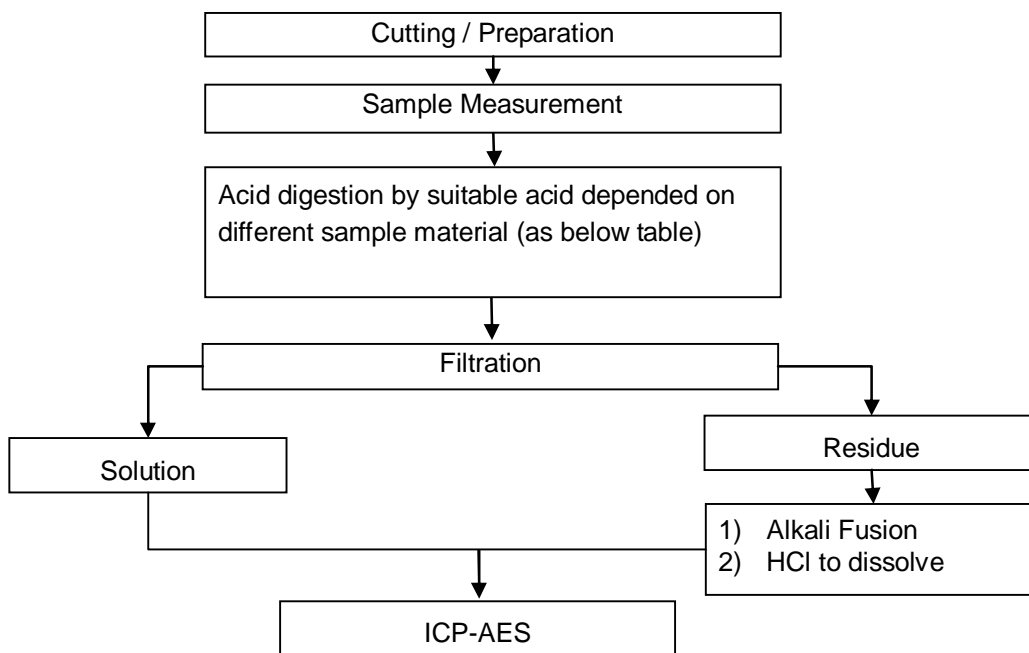
I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 5 of 5

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **



伸高企業有限公司
昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之2~3(五股工業區)

電話:(02) 2299-5578 FAX:(02) 2299-5535

規格書

1. 品名: RFX50-SS32-113S

2. 電線結構:

項	目	單位	規格明細
1. 絞合導體	材質	----	鍍銀銅線
	構造	No/mm	7/0.08
	導體外徑	mm	0.24
2. 絕緣押出	材質	----	Teflon FEP
	外徑	mm	0.68+0.04 -0.02
	顏色	----	自然色
3. 編織導體	材質	----	鍍銀銅線
	構造	No/mm	16/4/0.05
	外徑	mm	約 0.88
	遮蔽率	%	90 以上
4. 外被押出	材質	----	Teflon FEP
	外徑	mm	1.13 +0.08 -0.05
	顏色	----	#16-黑色或其他顏色
5. 重量		Kg/Km	3.07
6. 參考彎曲半徑	無荷重	mm	5x線徑
	有荷重	mm	10x線徑

溫度使用範圍: -60~200°C (DU POINT杜邦材料廠商答覆最高可達-450°F(-232°C),在-110°F(-43°C)搖擺下還可正常使用)



伸高企業有限公司
昶勤企業有限公司

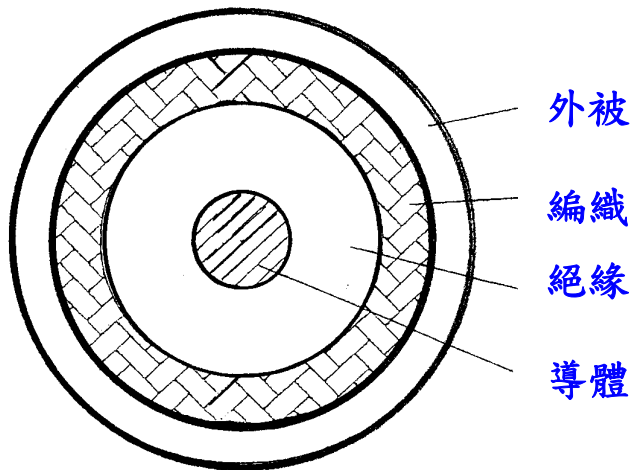
SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之2~3(五股工業區)

電話:(02) 2299-5578 FAX:(02) 2299-5535

3. 電氣特性:

項	目	單位	規格明細
1. 靜電容量(Nom.)	at 1KHz	pF/M	95
2. 特性阻抗	-----	歐姆	50±2
3. 衰減值(Nom.)	1GHz	dB/M	2.0
	2GHz	dB/M	2.9
	2.4GHz	dB/M	3.2
	3GHz	dB/M	3.7
	4GHz	dB/M	4.3
	5GHz	dB/M	4.8
	6GHz	dB/M	5.3



4. 包裝方式：250 mm 塑膠軸 (軸重約0.5Kg)

5. 包裝單長：1500 M/軸(毛重約 5.1 Kg)

廠商確認：

審核：盧志忠

設計：莊

測試報告 Test Report

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昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, TAIWAN, R. O. C.



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 同軸線 (COAXIAL CABLE)
樣品型號(Style/Item No.) : RFX50-SS32-113(S) & (T), FEP-ALL COLORS
收件日期(Sample Receiving Date) : 2008/07/03 AND 2008/08/05 AND 2008/11/11
測試期間(Testing Period) : 2008/07/03 TO 2008/07/10 AND 2008/07/15 TO 2008/07/17 AND
2008/08/05 TO 2008/08/12 AND 2008/11/11 TO 2008/11/18

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

* 此份報告為合併CE/2008/71142A, CE/2008/80937及CE/2008/B2435之報告 *
(This report is combined with reports of CE/2008/71142A, CE/2008/80937 and CE/2008/B2435)

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告

Test Report

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昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, TAIWAN, R. O. C.



測試結果(Test Results)

測試部位(PART NAME) NO.1	:	灰色塑膠外被 (GRAY PLASTIC JACKET (CE/2008/71142A NO.1))
測試部位(PART NAME) NO.2	:	半透明色塑膠 (TRANSLUCENT PLASTIC (CE/2008/71142A NO.2))
測試部位(PART NAME) NO.3	:	灰色塑膠外被 (特氟龍外被) (GRAY PLASTIC JACKET (CE/2008/80937 NO.1))
測試部位(PART NAME) NO.4	:	半透明色塑膠 (透明特氟龍絕緣) (TRANSLUCENT PLASTIC (CE/2008/80937 NO.2))
測試部位(PART NAME) NO.5	:	灰色塑膠外被 (特氟龍外被) (GRAY PLASTIC JACKET (CE/2008/B2435 NO.1))
測試部位(PART NAME) NO.6	:	銀色金屬線 (含鍍層) (鍍錫銅線編織) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER) (CE/2008/B2435 NO.2))
測試部位(PART NAME) NO.7	:	銀色金屬線鍍層 (鍍錫銅線編織) (PLATING LAYER OF SILVER COLORED METAL WIRE (CE/2008/B2435 NO.3))
測試部位(PART NAME) NO.8	:	半透明色塑膠 (透明特氟龍絕緣) (TRANSLUCENT PLASTIC (CE/2008/B2435 NO.4))
測試部位(PART NAME) NO.9	:	銀色金屬線 (含鍍層) (鍍銀銅線導體) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER) (CE/2008/B2435 NO.5))
測試部位(PART NAME) NO.10	:	銀色金屬線鍍層 (鍍銀銅線導體) (PLATING LAYER OF SILVER COLORED METAL WIRE (CE/2008/B2435 NO.6))
測試部位(PART NAME) NO.11	:	銀色金屬線 (含鍍層) (鍍銀銅線編織) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER) (CE/2008/B2435 NO.7))
測試部位(PART NAME) NO.12	:	銀色金屬線鍍層 (鍍銀銅線編織) (PLATING LAYER OF SILVER COLORED METAL WIRE (CE/2008/B2435 NO.8))

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	NO.2	NO.3
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	---	---	n.d.
全氟辛酸(銨) / PFOA	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	---	---	n.d.

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測試報告

Test Report

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昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, 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	NO.2	NO.3
鹵素 / Halogen	---	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for F, Cl, Br, I content.	---	---	---	---
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氟含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Fluorine content.	50	---	---	320000
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氯含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Chlorine content.	50	n.d.	n.d.	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析溴含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Bromine content.	50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析碘含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Iodine content.	50	---	---	n.d.

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昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, 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.4	NO.5	NO.6
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	---	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	---	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	---	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV-Vis Spectrometry.	2	---	n.d.	---

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昶勤企業有限公司

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7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, 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. 4	NO. 5	NO. 6
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	---	---
全氟辛酸(銨) / PFOA	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	---	---
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	---	n.d.	---
一溴聯苯 / Monobromobiphenyl			5	---	n.d.	---
二溴聯苯 / Dibromobiphenyl			5	---	n.d.	---
三溴聯苯 / Tribromobiphenyl			5	---	n.d.	---
四溴聯苯 / Tetrabromobiphenyl			5	---	n.d.	---
五溴聯苯 / Pentabromobiphenyl			5	---	n.d.	---
六溴聯苯 / Hexabromobiphenyl			5	---	n.d.	---
七溴聯苯 / Heptabromobiphenyl			5	---	n.d.	---
八溴聯苯 / Octabromobiphenyl			5	---	n.d.	---
九溴聯苯 / Nonabromobiphenyl			5	---	n.d.	---
十溴聯苯 / Decabromobiphenyl			5	---	n.d.	---
多溴聯苯醚總和 / Sum of PBDEs			-	---	n.d.	---
一溴聯苯醚 / Monobromodiphenyl ether			5	---	n.d.	---
二溴聯苯醚 / Dibromodiphenyl ether			5	---	n.d.	---
三溴聯苯醚 / Tribromodiphenyl ether			5	---	n.d.	---
四溴聯苯醚 / Tetrabromodiphenyl ether			5	---	n.d.	---
五溴聯苯醚 / Pentabromodiphenyl ether			5	---	n.d.	---
六溴聯苯醚 / Hexabromodiphenyl ether			5	---	n.d.	---
七溴聯苯醚 / Heptabromodiphenyl ether			5	---	n.d.	---
八溴聯苯醚 / Octabromodiphenyl ether			5	---	n.d.	---
九溴聯苯醚 / Nonabromodiphenyl ether	5	---	n.d.	---		
十溴聯苯醚 / Decabromodiphenyl ether	5	---	n.d.	---		

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昶勤企業有限公司

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TAIPEI HSIEN, 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.4	NO.5	NO.6
鹵素 / Halogen	---	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for F, Cl, Br, I content.	---	---	---	---
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氟含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Fluorine content.	50	148000	---	---
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析氯含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Chlorine content.	50	n.d.	---	---
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析溴含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Bromine content.	50	n.d.	---	---
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考IEC 61189-2 TEST 2C12方法, 以離子層析儀分析碘含量. / With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Iodine content.	50	n.d.	---	---

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TAIPEI HSIEN, 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.7	NO.8	NO.9
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	---	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	---	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	---	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV-Vis Spectrometry.	2	---	n.d.	---

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TAIPEI HSIEN, 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.7	NO.8	NO.9
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	針對金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV)方法 檢測, 用Spot test / boiling water extraction方法檢測六價鉻 含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method. (See Note 4)	0.02mg/kg with 50 cm ² surface area	Negative	---	---
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 以氣相層析儀 /質譜儀檢測多溴聯苯和多溴聯苯 醚含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	---	n.d.	---
一溴聯苯 / Monobromobiphenyl			5	---	n.d.	---
二溴聯苯 / Dibromobiphenyl			5	---	n.d.	---
三溴聯苯 / Tribromobiphenyl			5	---	n.d.	---
四溴聯苯 / Tetrabromobiphenyl			5	---	n.d.	---
五溴聯苯 / Pentabromobiphenyl			5	---	n.d.	---
六溴聯苯 / Hexabromobiphenyl			5	---	n.d.	---
七溴聯苯 / Heptabromobiphenyl			5	---	n.d.	---
八溴聯苯 / Octabromobiphenyl			5	---	n.d.	---
九溴聯苯 / Nonabromobiphenyl			5	---	n.d.	---
十溴聯苯 / Decabromobiphenyl			5	---	n.d.	---
多溴聯苯醚總和 / Sum of PBDEs			-	---	n.d.	---
一溴聯苯醚 / Monobromodiphenyl ether			5	---	n.d.	---
二溴聯苯醚 / Dibromodiphenyl ether			5	---	n.d.	---
三溴聯苯醚 / Tribromodiphenyl ether			5	---	n.d.	---
四溴聯苯醚 / Tetrabromodiphenyl ether			5	---	n.d.	---
五溴聯苯醚 / Pentabromodiphenyl ether			5	---	n.d.	---
六溴聯苯醚 / Hexabromodiphenyl ether			5	---	n.d.	---
七溴聯苯醚 / Heptabromodiphenyl ether			5	---	n.d.	---
八溴聯苯醚 / Octabromodiphenyl ether			5	---	n.d.	---
九溴聯苯醚 / Nonabromodiphenyl ether	5	---	n.d.	---		
十溴聯苯醚 / Decabromodiphenyl ether	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.10	NO.11	NO.12
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	---	n.d.	---
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	---	n.d.	---
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	---	n.d.	---
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	針對金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV)方法檢測, 用Spot test / boiling water extraction方法檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method. (See Note 4)	0.02mg/kg with 50 cm ² surface area	Negative	---	Negative

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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. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.

(當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

5. "-" = Not Regulated (無規格值)

6. "---" = Not Conducted (未測項目)

7. **= Qualitative analysis (No Unit) 定性分析(無單位)

8. 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 samples was/were analyzed on behalf of the applicant as mixing sample in one testing.

The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

(1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.

(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)

(2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於1 μ g/m².

(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1 μ g/m² of the coated material.)

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昶勤企業有限公司

SHEN GAU INDUSTRIAL CO., LTD.

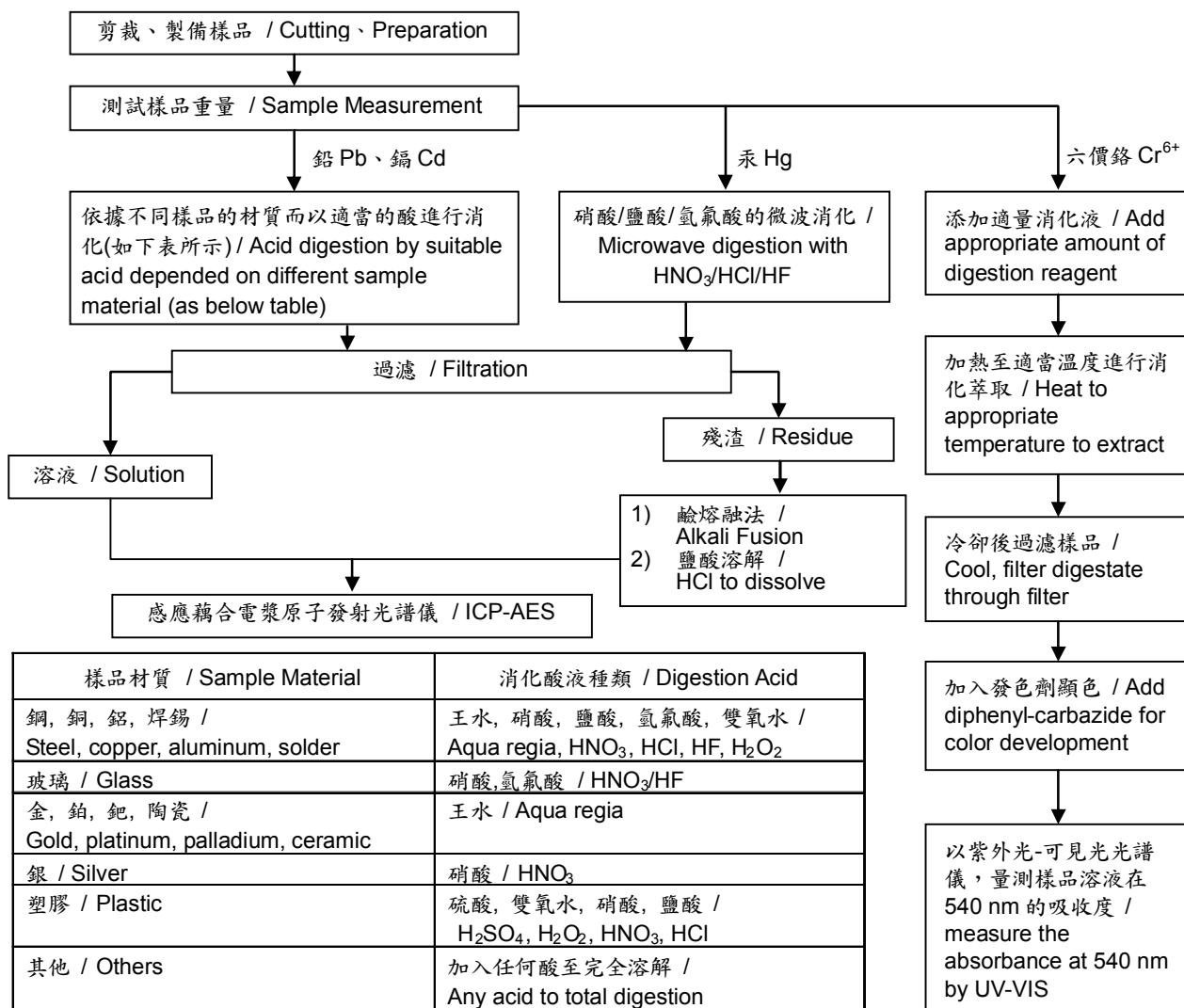
台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

TAIPEI HSIEN, 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



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TAIPEI HSIEN, TAIWAN, R. O. C.



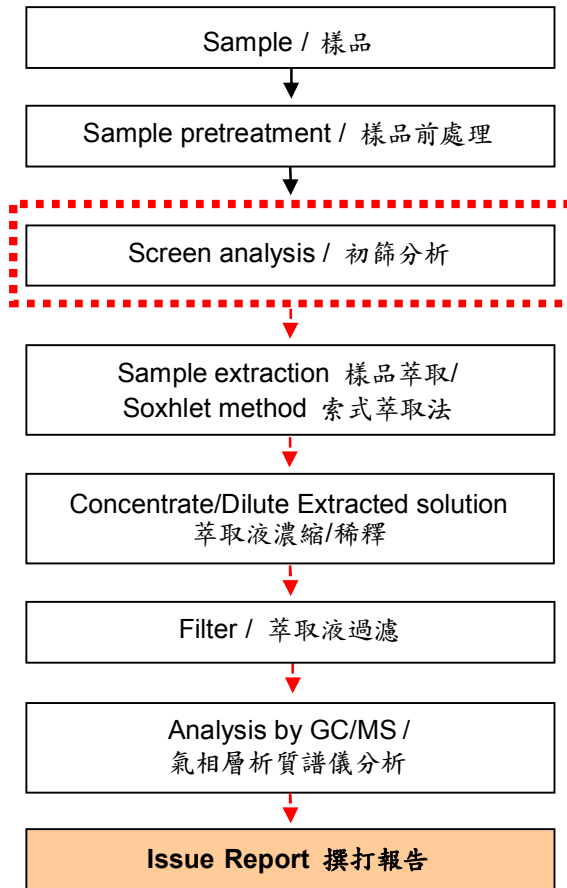
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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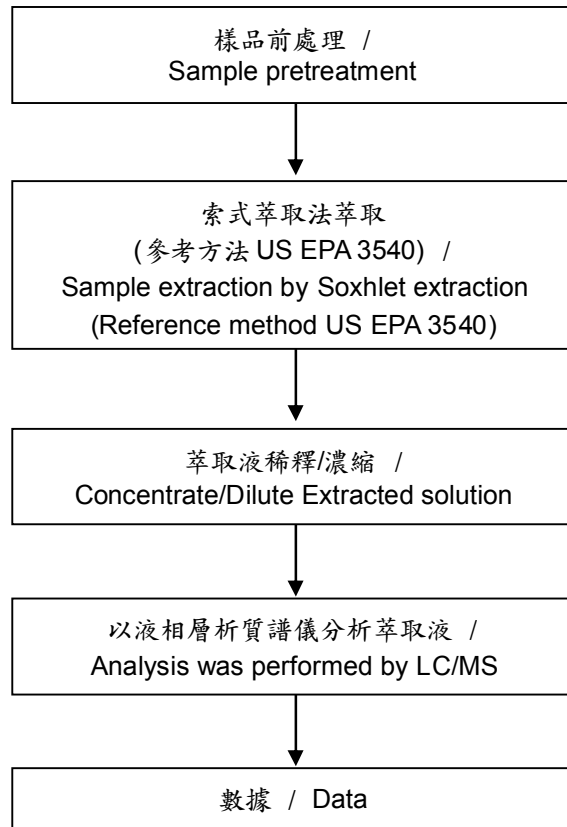
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TAIPEI HSIEN, TAIWAN, R. O. C.



全氟辛酸(銨)/全氟辛磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1) 測試人員：劉家瑗 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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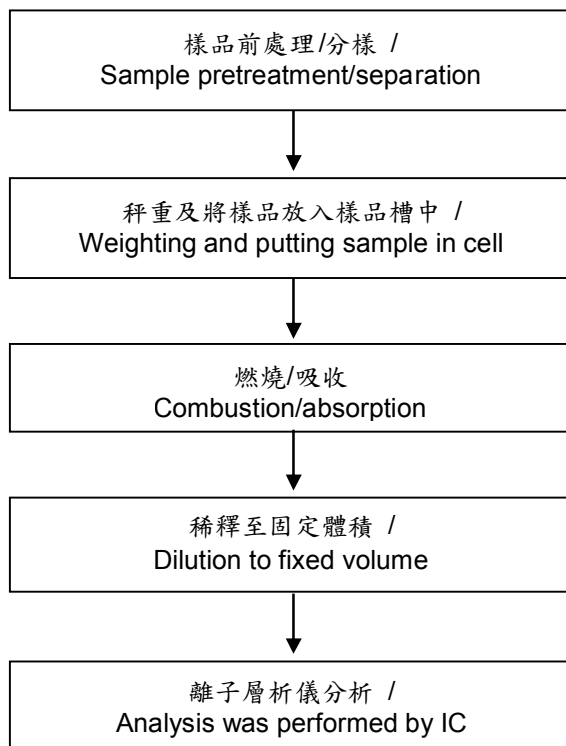
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TAIPEI HSIEN, TAIWAN, R. O. C.



鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：藍雅婷 / Name of the person who made measurement: Tin Lan
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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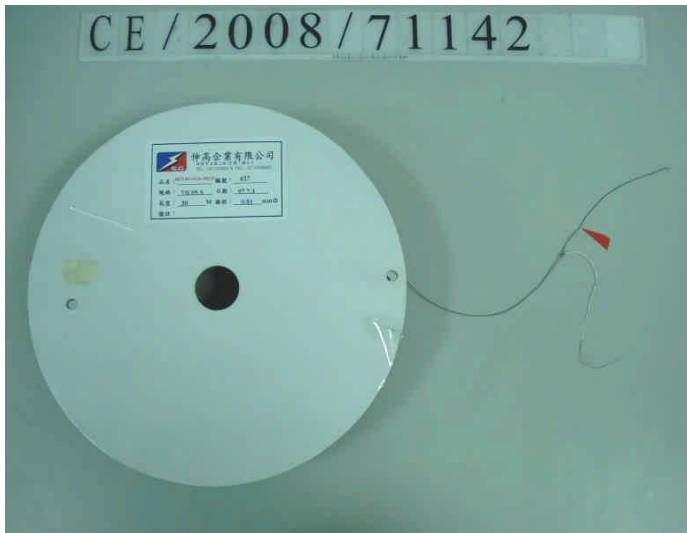
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測試部位 (PART NAME) NO.1



測試部位 (PART NAME) NO.2



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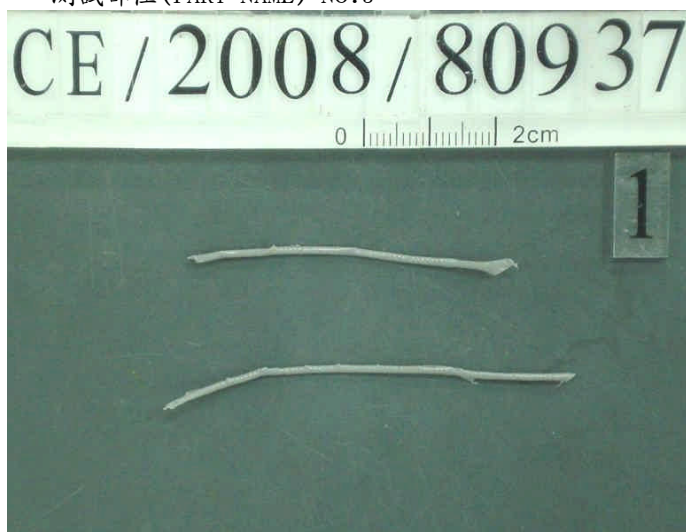
台北縣新莊市五權二路26號7樓之3

7F-3, NO. 26, WU CHUANG SECOND RD., WU KU INDUSTRIAL ZONE, HSIN CHUANG,

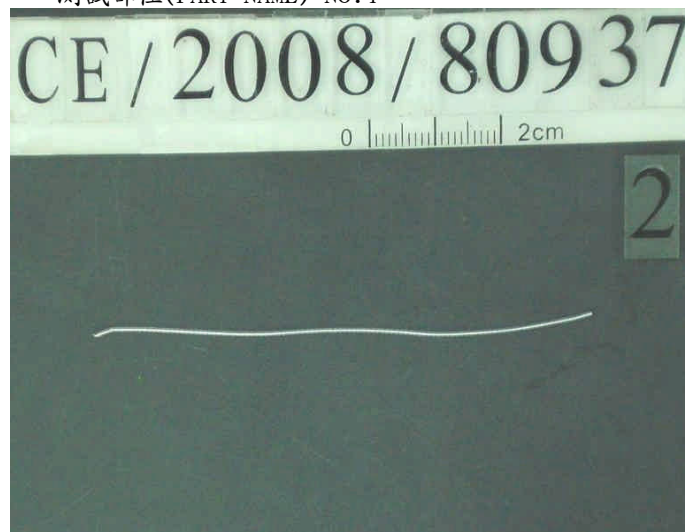
TAIPEI HSIEN, TAIWAN, R. O. C.



測試部位(PART NAME) NO.3



測試部位(PART NAME) NO.4



測試部位(PART NAME) NO.5



測試部位(PART NAME) NO.6



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測試部位(PART NAME) NO.7



測試部位(PART NAME) NO.8



測試部位(PART NAME) NO.9



測試部位(PART NAME) NO.10



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TAIPEI HSIEN, TAIWAN, R. O. C.



測試部位(PART NAME) NO.11



測試部位(PART NAME) NO.12



** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.): CE/2008/94829

日期(Date): 2008/09/26

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金路電子企業股份有限公司

GOLD ROAD ELECTRONIC CO., LTD.

桃園縣觀音工業區工業三路9號

NO. 9 INDUSTRIAL 3RD RD. KUAN YIN INDUSTRIAL PARK, TAOYUAN COUNTY 328, TAIWAN

R. O. C.




以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 印刷電路板 (PCB)
樣品型號(Style/Item No.) : 23-152D-4P (無鉛噴錫)
收件日期(Sample Receiving Date) : 2008/09/19
測試期間(Testing Period) : 2008/09/19 TO 2008/09/26

=====
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考 IEC 62321/2nd CDV (111/95/CDV) 方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
(1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
(2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
(3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
(4) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

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


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

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金路電子企業股份有限公司

GOLD ROAD ELECTRONIC CO., LTD.

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NO. 9 INDUSTRIAL 3RD RD. KUAN YIN INDUSTRIAL PARK, TAOYUAN COUNTY 328, TAIWAN

R. O. C.



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
多溴聯苯總和 / Sum of PBBs	(5)	n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	5
五溴聯苯 / Pentabromobiphenyl		n.d.	5
六溴聯苯 / Hexabromobiphenyl		n.d.	5
七溴聯苯 / Heptabromobiphenyl		n.d.	5
八溴聯苯 / Octabromobiphenyl		n.d.	5
九溴聯苯 / Nonabromobiphenyl		n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	5
多溴聯苯醚總和 / Sum of PBDEs		n.d.	-
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5
九溴聯苯醚 / Nonabromodiphenyl ether	n.d.	5	
十溴聯苯醚 / Decabromodiphenyl ether	n.d.	5	

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R. O. C.



測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 綠色印刷電路板 (GREEN PCB)

備註(Note):

1. mg/kg = ppm
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/2008/94829

日期(Date): 2008/09/26

頁數(Page): 4 of 6

金路電子企業股份有限公司

GOLD ROAD ELECTRONIC CO., LTD.

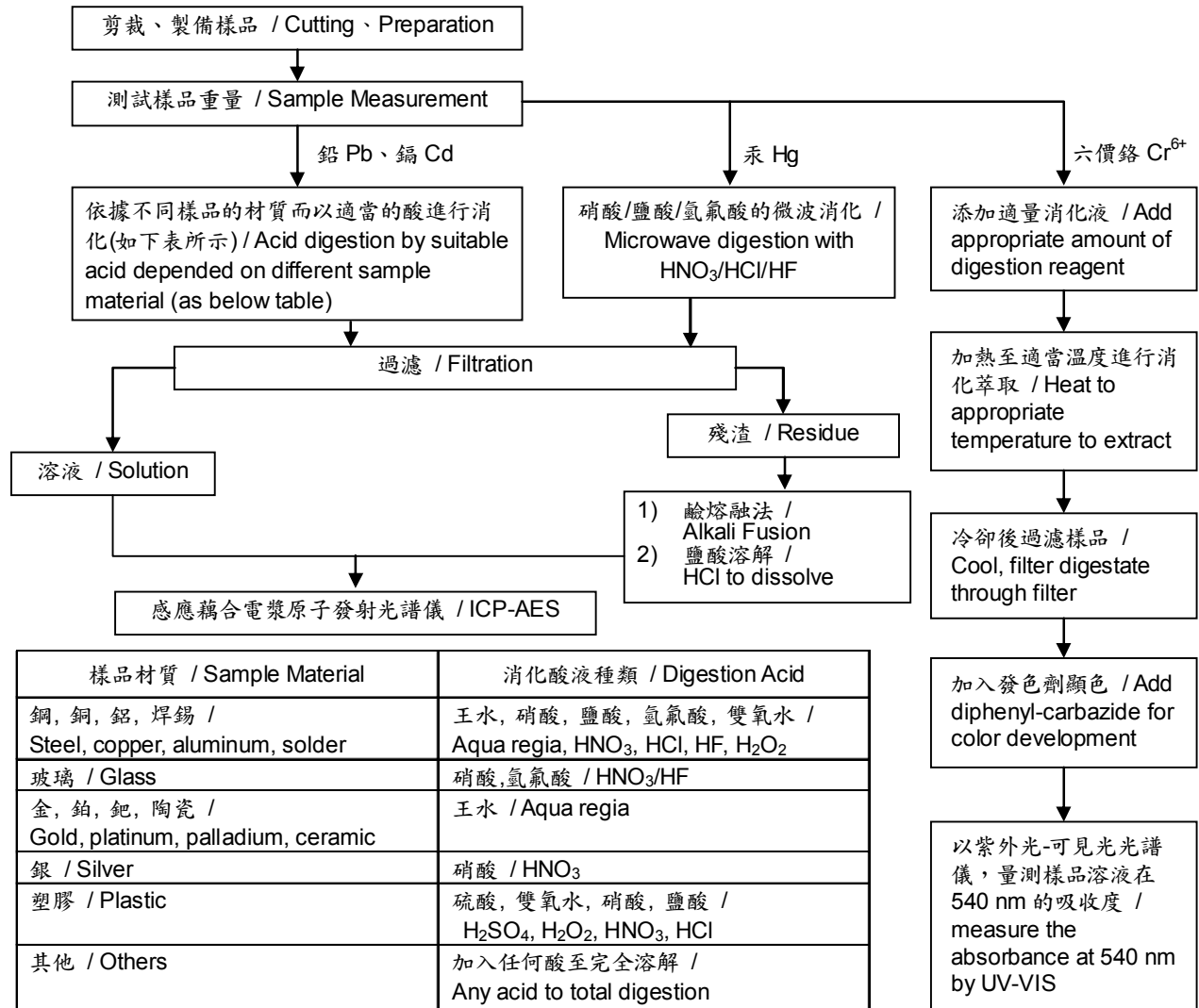
桃園縣觀音工業區工業三路9號

NO. 9 INDUSTRIAL 3RD RD. KUAN YIN INDUSTRIAL PARK, TAOYUAN COUNTY 328, 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



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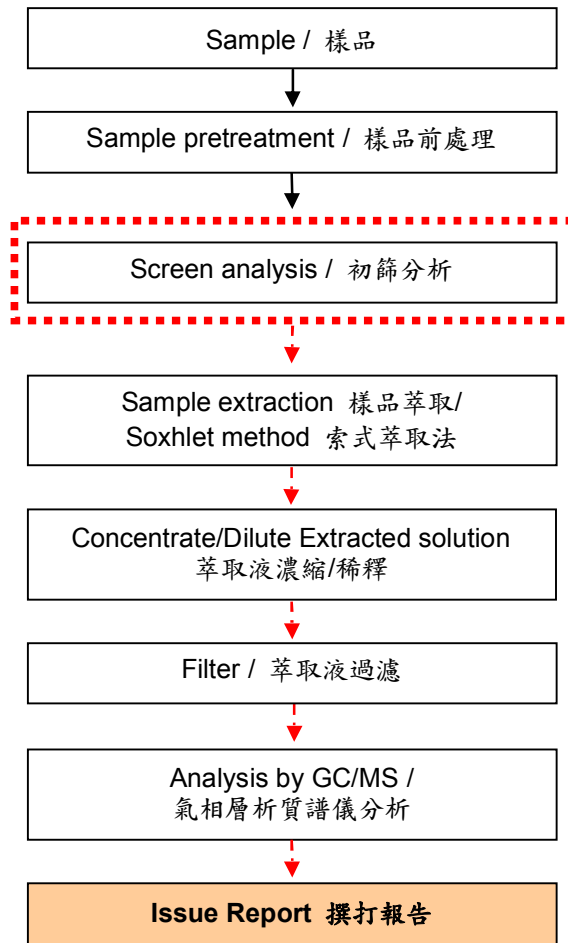
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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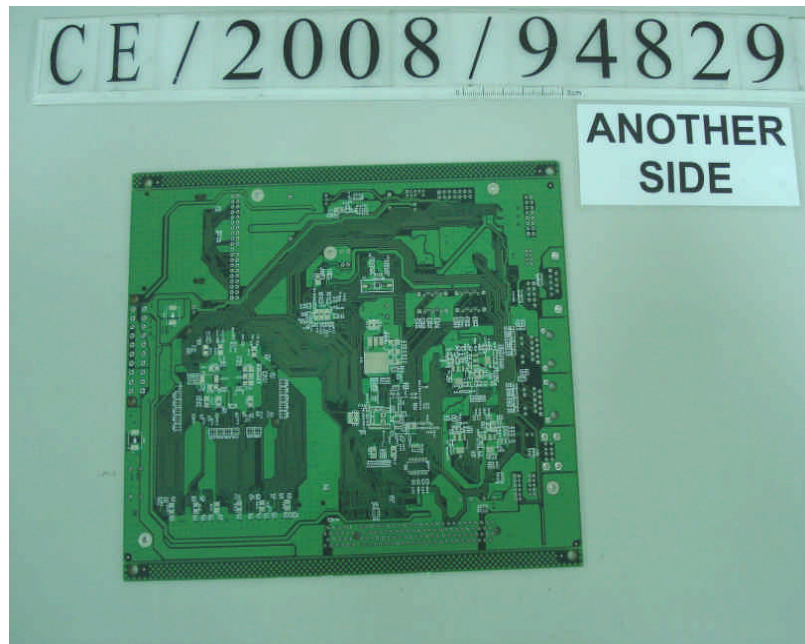
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**** 報告結尾 ****

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測試報告 Test Report

號碼(No.) : CE/2008/C2936 日期(Date) : 2008/12/16 頁數(Page) : 1 of 8

台灣明尼蘇達礦業製造股份有限公司
3M TAIWAN LTD.



桃園縣楊梅鎮中山南路800巷66號

66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description)	: PU FOAM TAPE 雙面膠帶
樣品型號(Style/Item No.)	: 3M 4032, 4026, 4004, 4008, 4016
買主/訂單號碼(Buyer/Order No.)	: 台灣明尼蘇達礦業製造股份有限公司 (3M TAIWAN LTD.)
收件日期(Sample Receiving Date)	: 2008/12/11
測試期間(Testing Period)	: 2008/12/11 TO 2008/12/16

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

Chenyu Kung / Operation Manager
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/2008/C2936 日期(Date) : 2008/12/16 頁數(Page) : 2 of 8

台灣明尼蘇達礦業製造股份有限公司
3M TAIWAN LTD.



桃園縣楊梅鎮中山南路800巷66號

66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

測試結果(Test Results)

測試部位(PART NAME) NO.1 : 白色雙面泡棉膠帶 (不含離型紙) (WHITE DOUBLE FOAM ADHESIVE TAPE (EXCLUDING THE RELEASE 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 62321/2nd CDV (111/95/CDV) - Clause 8方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV) - Clause 8. Determination of Cadmium by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) - Clause 8方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV) - Clause 8. Determination of Lead by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) - Clause 7方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV) - Clause 7. Determination of Mercury by ICP-AES.	2	n.d.

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測試報告

Test Report

號碼(No.) : CE/2008/C2936 日期(Date) : 2008/12/16 頁數(Page) : 3 of 8

台灣明尼蘇達礦業製造股份有限公司
3M TAIWAN LTD.



桃園縣楊梅鎮中山南路800巷66號

66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, 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
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV) - Annex C方法檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV) - Annex C. Determination of Hexavalent Chromium for non-metallic samples by UV-Vis Spectrometry.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) - Annex A方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / With reference to IEC 62321/2nd CDV (111/95/CDV) - Annex A. Determination of PBB and PBDE by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.		

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測試報告

Test Report

號碼(No.) : CE/2008/C2936 日期(Date) : 2008/12/16 頁數(Page) : 4 of 8

台灣明尼蘇達礦業製造股份有限公司

3M TAIWAN LTD.

桃園縣楊梅鎮中山南路800巷66號

66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, 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
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.		
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	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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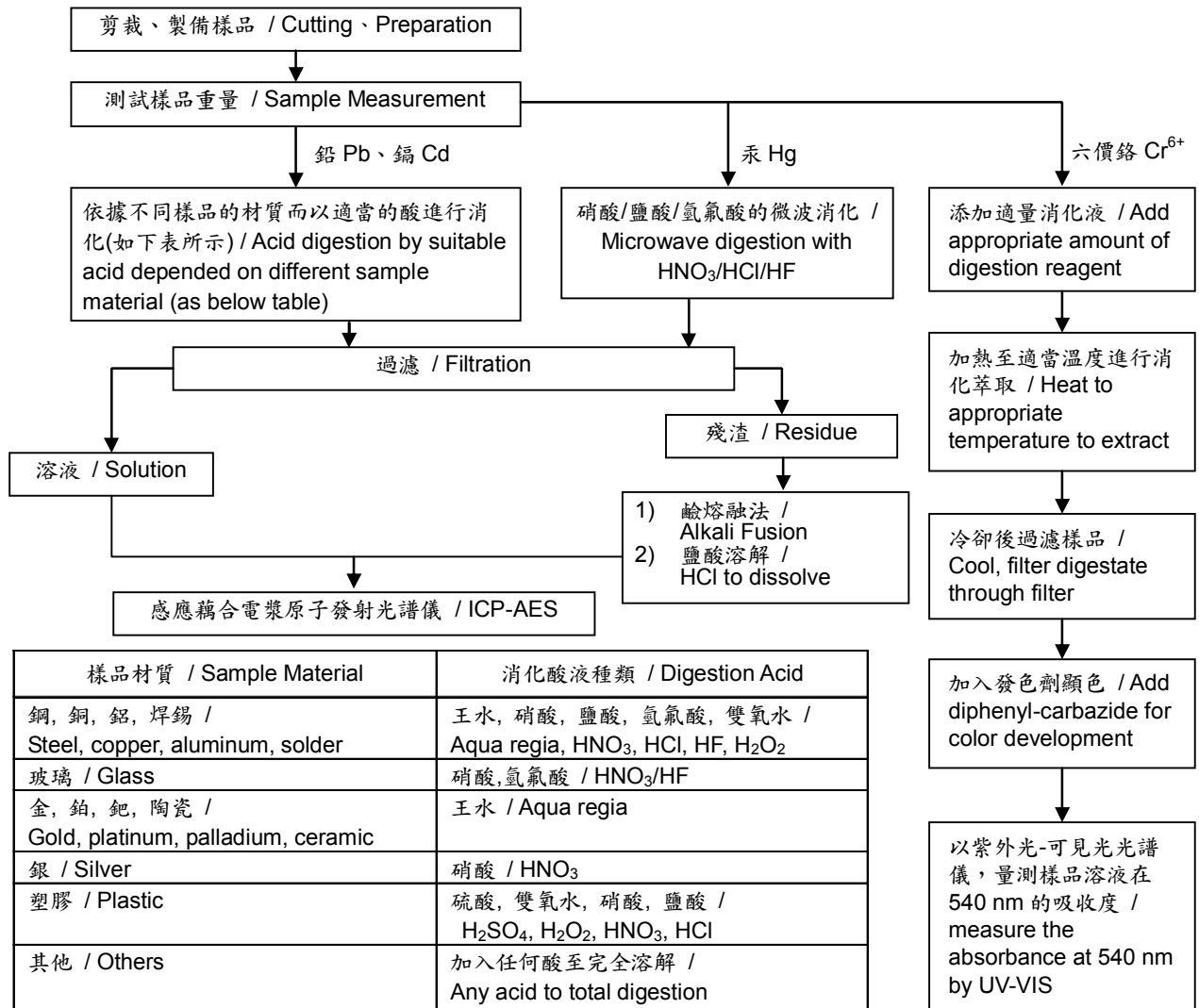
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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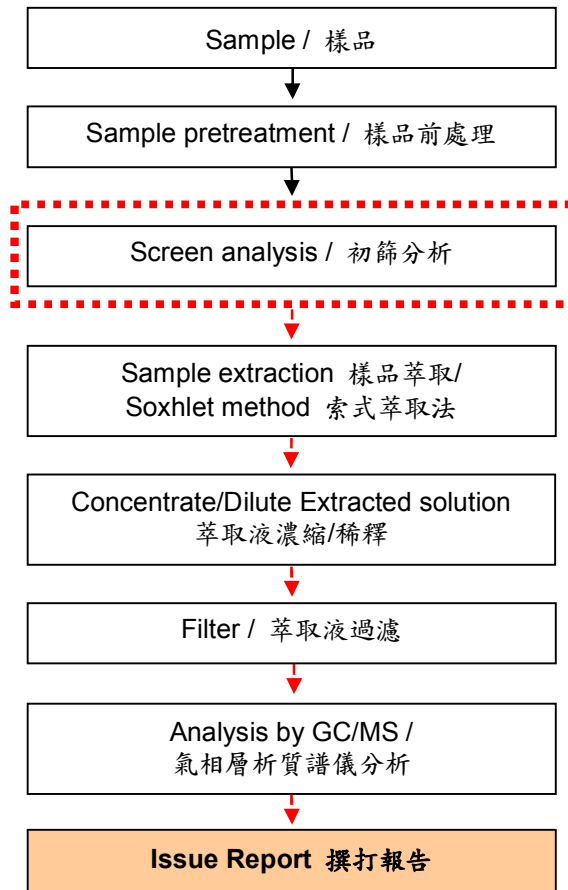
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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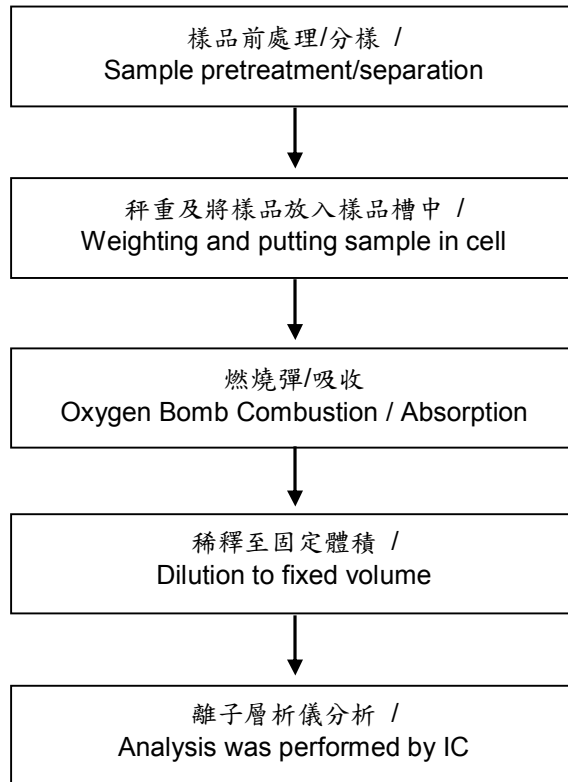


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66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

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** 報告結尾(End of Report) **

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