

## RoHS Material Reports

Date : 2011/11/16

Part NO.: SRR6038 series

No.	Construction Element (subpart)	Homogeneous Material	Report No.	Page
1	Ferrite Material	F5H	CANEC1005454209	4 Pages
2	Winding Wire	P180-G2	CE/2011/45728	5 Pages
3	Solder	Lead free-solder	CANEC1005428902	4 Pages
4	Terminal	Ag Ni Sn	CE/2011/36914 CANEC1103442904 CANEC1103442906	8 Pages 5 Pages 6 Pages
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6				

## Test Report

No. CANEC1005454209

Date: 04 Jan 2011

Page 1 of 4

GUANG ZHOU FERRICO ELECTRONICS CO.,LTD  
NO.2,RENMIN RD.,RENMIN VILLAGE,LANHE TOWN,PANYU AREA,GUANGZHOU CITY,GUANGDONG  
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :  
F5H CORE

SGS Job No. : 12900330 - GZ  
Lot No. : P2110090801ABT  
SGS Internal Reference No. : 17.9  
Date of Sample Received : 29 Dec 2010  
Testing Period : 29 Dec 2010 - 04 Jan 2011  
  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.



Almay Gao  
Approved Signatory

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# Test Report

No. CANEC1005454209

Date: 04 Jan 2011

Page 2 of 4

## Test Results:

ID for specimen 1 : CAN10-054542.009  
Description for specimen 1 : Dk-grey core

## Elementary Analysis

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2

## Note:

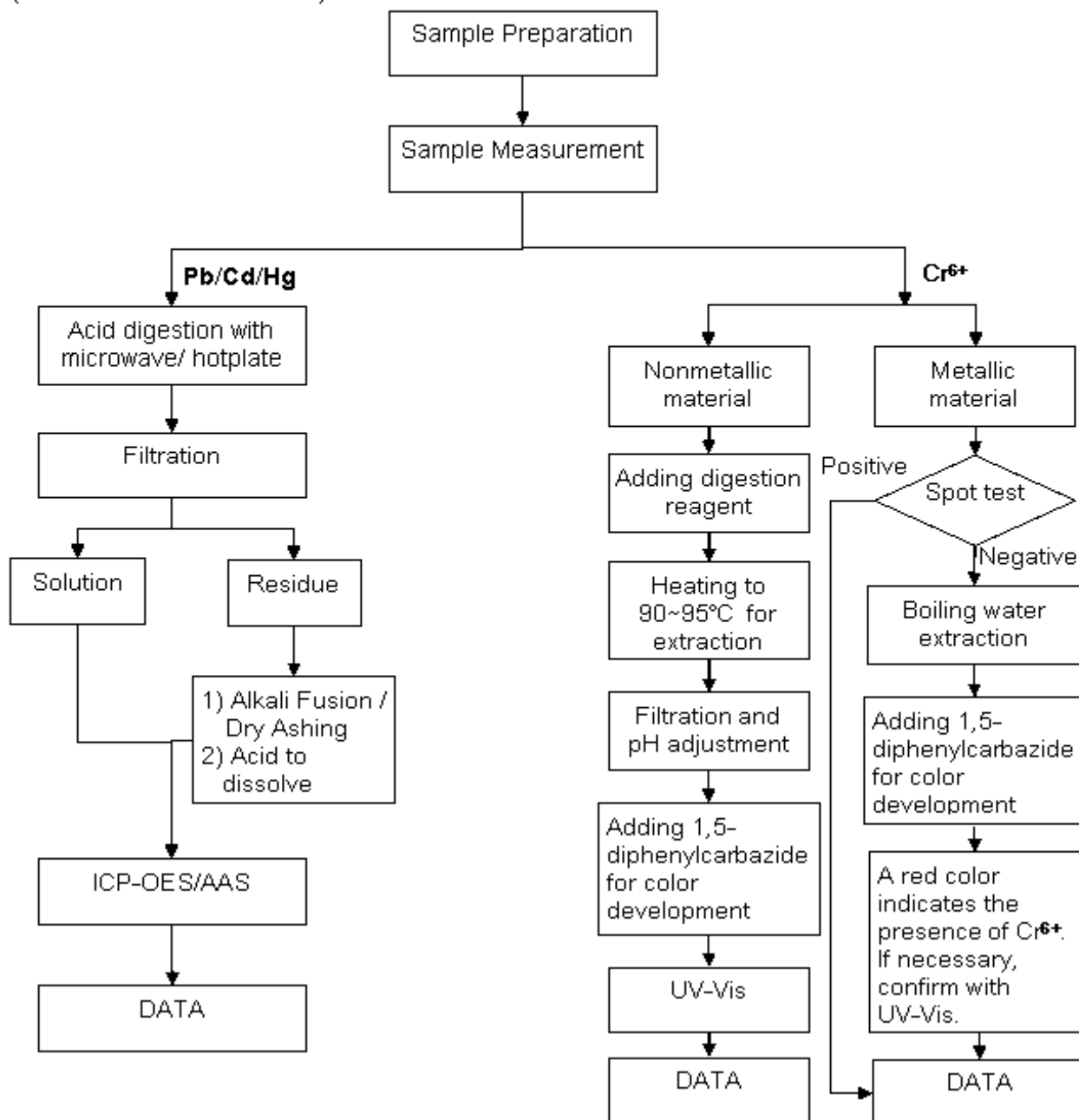
1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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### ATTACHMENTS

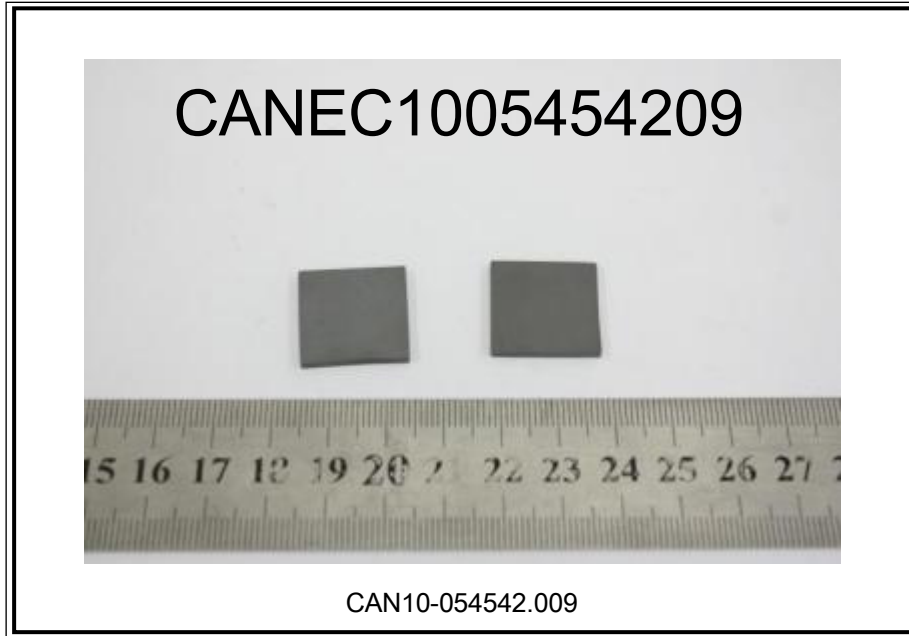
#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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Sample photo:



SGS authenticate the photo on original report only

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## Test Report

No. : CE/2011/45728 Date : 2011/05/04 Page : 1 of 5

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



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

Sample Description : ELEKTRISOLA BARE COPPER WIRE  
Sample Receiving Date : 2011/04/27  
Testing Period : 2011/04/27 TO 2011/05/04

=====

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

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

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

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# Test Report

No. : CE/2011/45728 Date : 2011/05/04 Page : 2 of 5

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



## Test Result(s)

PART NAME No.1 : COPPER COLORED METAL WIRE

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative	#
Beryllium (Be)	mg/kg	With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.	-

### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. \*\* = Qualitative analysis (No Unit)
6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

#### Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

7. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement.  
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.

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## Test Report

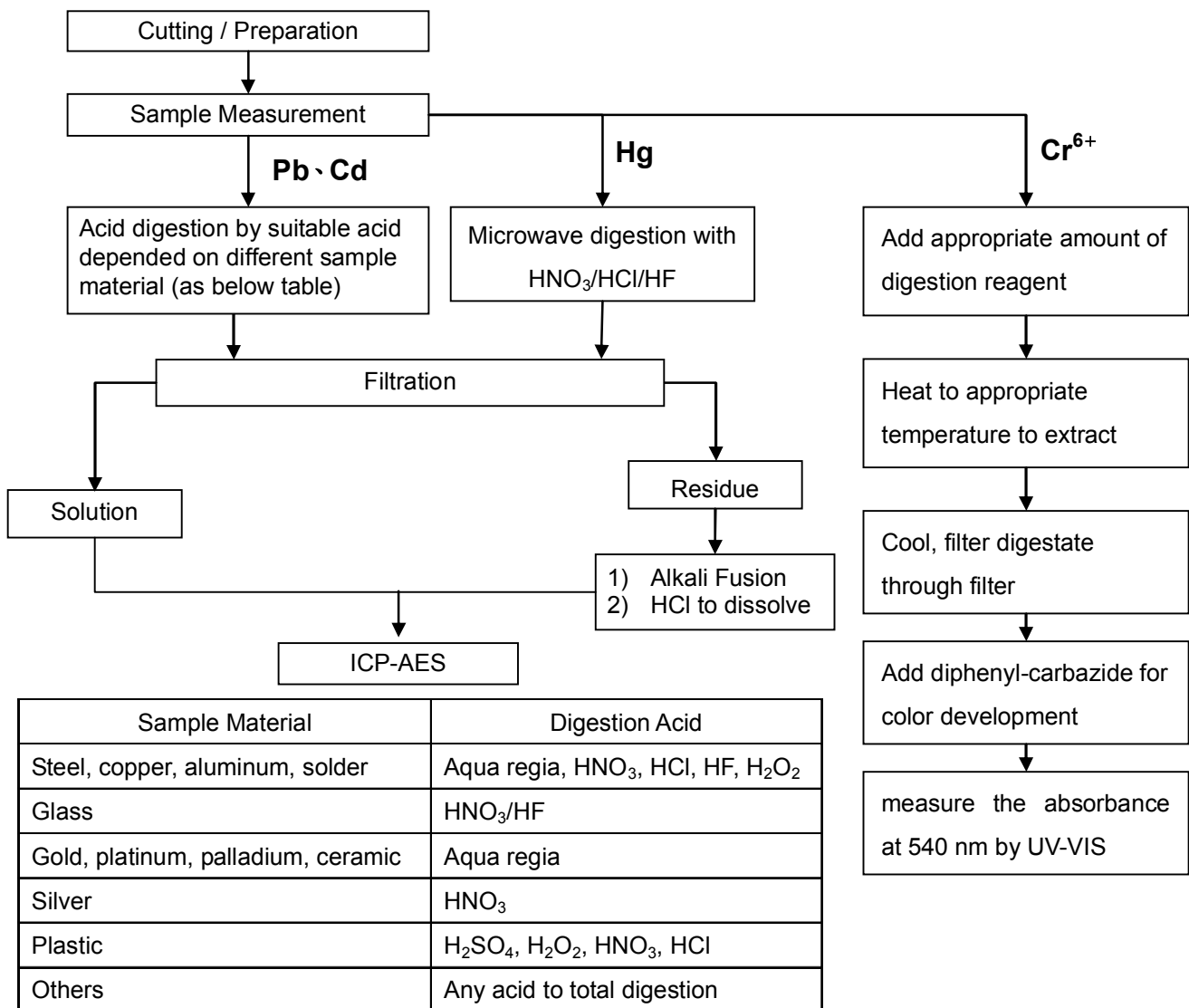
No. : CE/2011/45728 Date : 2011/05/04 Page : 3 of 5

ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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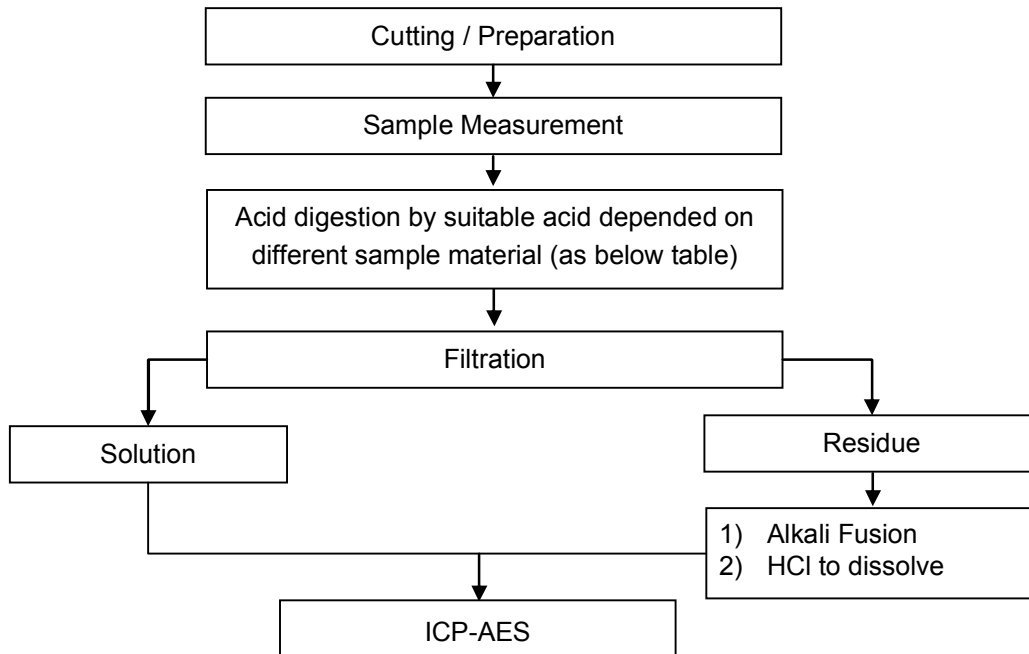
No. : CE/2011/45728 Date : 2011/05/04 Page : 4 of 5

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



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

### Flow Chart of digestion for the elements analysis performed by ICP-AES



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

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## Test Report

No. : CE/2011/45728 Date : 2011/05/04 Page : 5 of 5

ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



\*\* End of Report \*\*

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## Test Report

No. CANEC1005428902

Date: 31 Dec 2010

Page 1 of 4

THOUSAND ISLAND METAL FOIL CO.,LTD  
BLOCK FIFTEEN NEW SUN INDUSTRIAL AREA TANGXIA TOWN,DONGGUAN CITY  
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :  
Sn96.5Ag3Cu0.5 无铅锡条

SGS Job No. : 12904507 - SZ  
SGS Internal Reference No. : 5.2  
Date of Sample Received : 28 Dec 2010  
Testing Period : 28 Dec 2010 - 31 Dec 2010  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.



Silva Zhou  
Approved Signatory

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# Test Report

No. CANEC1005428902

Date: 31 Dec 2010

Page 2 of 4

## Test Results:

ID for specimen 1 : CAN10-054289.002  
 Description for specimen 1 : Silvery metal bar

## Elementary Analysis

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321:2008, ICP-OES	31	2
Mercury (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	-	IEC 62321:2008, UV-Vis	Negative	◇

## Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ◇ = Spot-Test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;  
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

### Boiling-water-extraction:

Negative = Absence of CrVI coating  
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

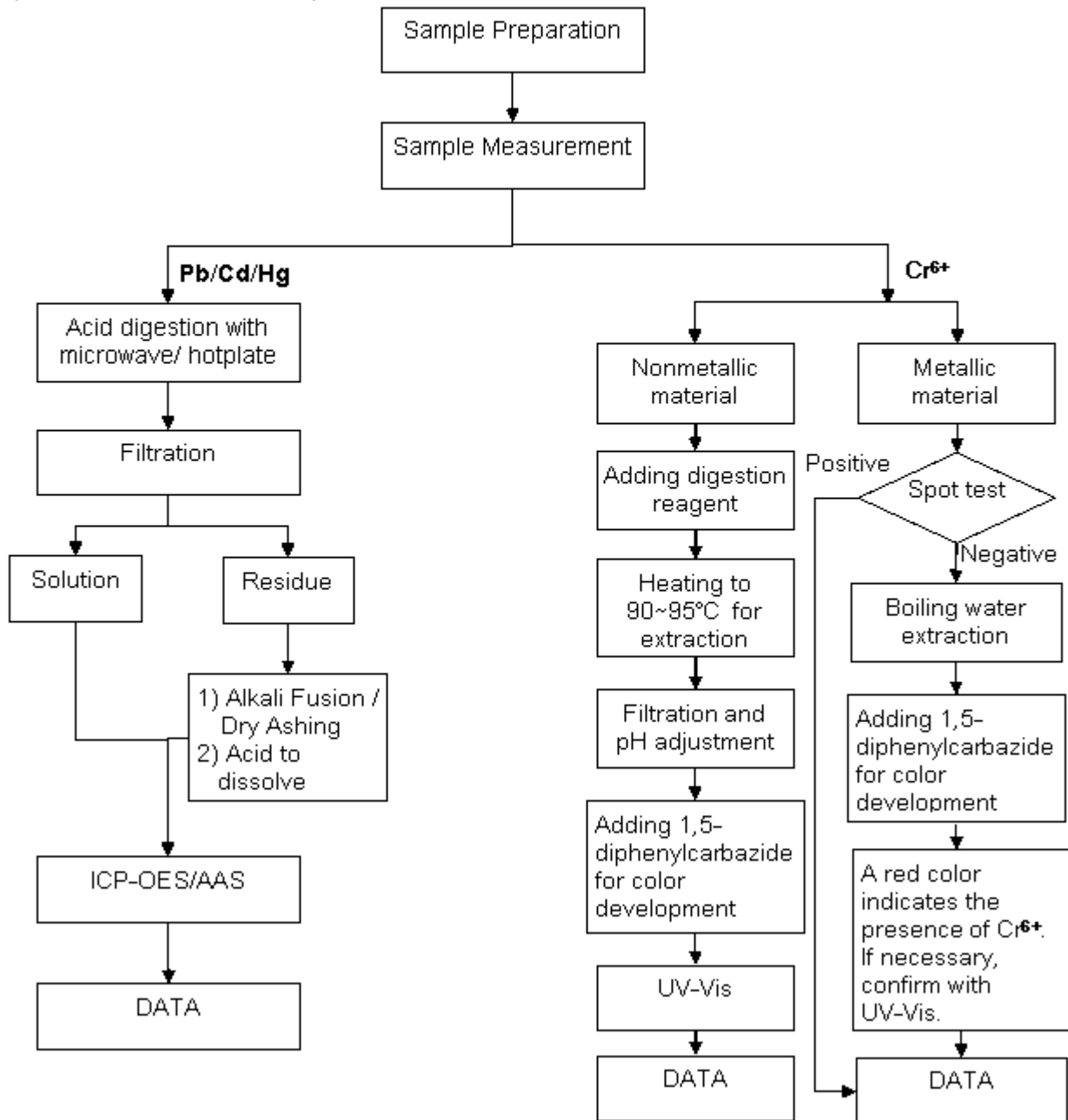
5. "-" = Not regulated

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ATTACHMENTS

**RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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## 測試報告

## Test Report

號碼(No.) : CE/2011/36914 日期(Date) : 2011/04/06 頁數(Page) : 1 of 8

致嘉科技股份有限公司

EXOJET TECHNOLOGY CORPORATION

新竹市牛埔東路386號

NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



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) : PASTE  
樣品型號(Style/Item No.) : DIELECTRIC (DE-9963A, DE-9960C1)  
收件日期(Sample Receiving Date) : 2011/03/28  
測試期間(Testing Period) : 2011/03/28 TO 2011/04/06

=====  
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/2011/36914 日期(Date) : 2011/04/06 頁數(Page) : 2 of 8

致嘉科技股份有限公司

EXOJET TECHNOLOGY CORPORATION

新竹市牛埔東路386號

NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



### 測試結果(Test Results)

測試部位(PARTNAME)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: 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) by alkaline extraction	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.
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 (CAS No.: 335-67-1)	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

號碼(No.) : CE/2011/36914 日期(Date) : 2011/04/06 頁數(Page) : 3 of 8

致嘉科技股份有限公司

EXOJET TECHNOLOGY CORPORATION

新竹市牛埔東路386號

NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



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		
<b>多溴聯苯總和 / Sum of PBBs</b>	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed 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.		
<b>多溴聯苯醚總和 / Sum of PBDEs</b>					-	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

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新竹市牛埔東路386號

NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



### 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)

### 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1µg/m<sup>2</sup>。  
(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 1µg/m<sup>2</sup> of the coated material.)

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## 測試報告 Test Report

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致嘉科技股份有限公司

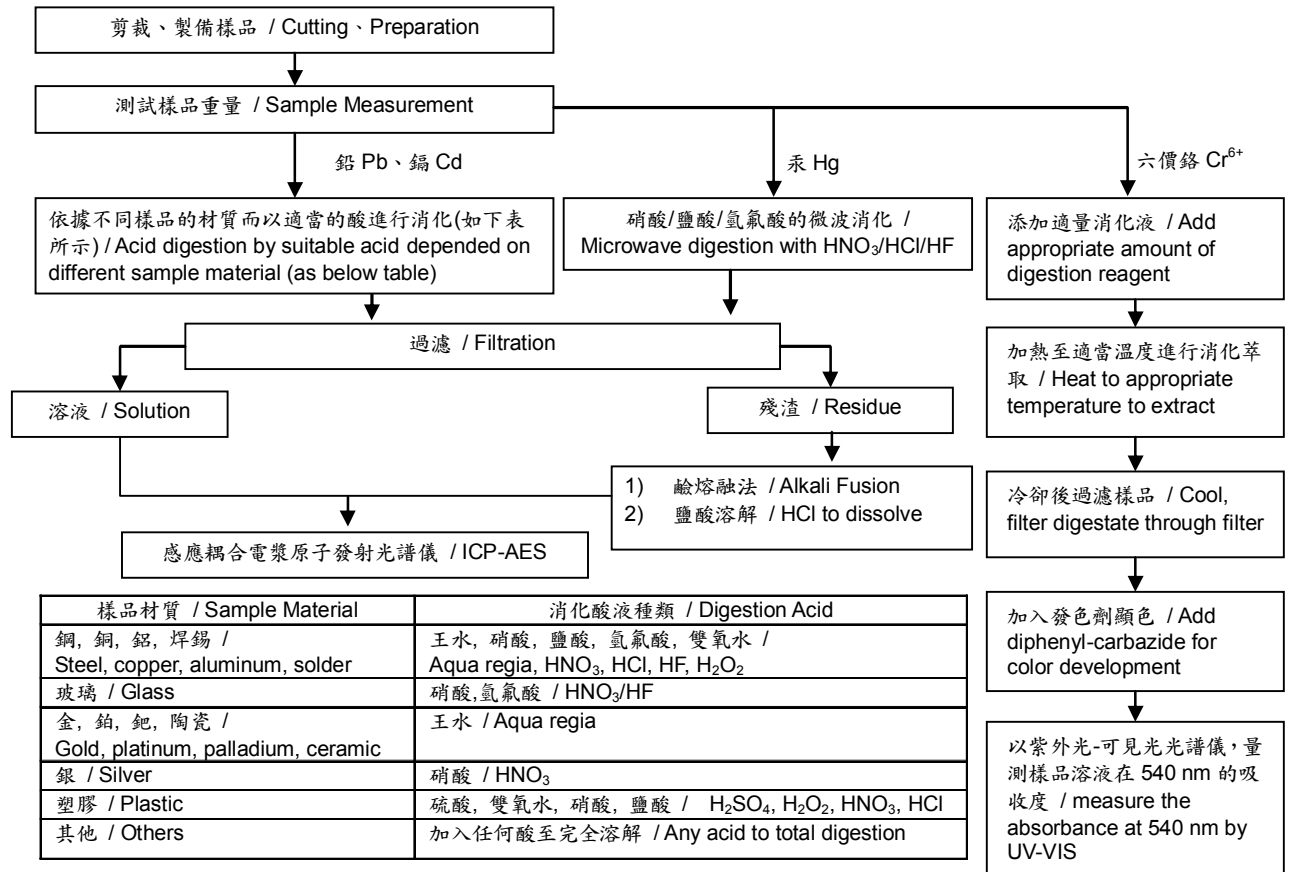
EXOJET TECHNOLOGY CORPORATION

新竹市牛埔東路386號

NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



- 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. (Cr<sup>6+</sup> 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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致嘉科技股份有限公司

EXOJET TECHNOLOGY CORPORATION

新竹市牛埔東路386號

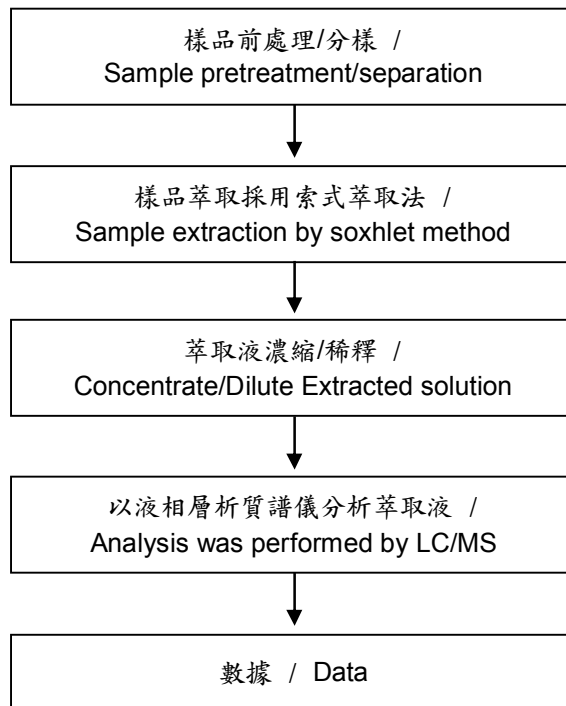
NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



### 索式萃取(LC/MS)分析流程圖 /

### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 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
- 測試項目(Test Items): 全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物 /  
PFOS/PFOA、Benzotriazole



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## 測試報告 Test Report

號碼(No.) : CE/2011/36914 日期(Date) : 2011/04/06 頁數(Page) : 7 of 8

致嘉科技股份有限公司

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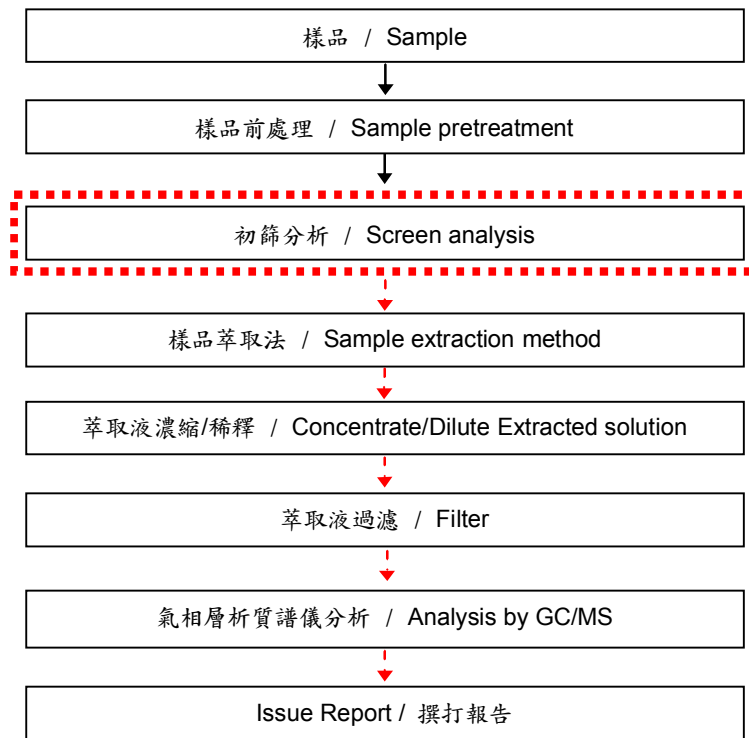
### 分析流程圖 / Analytical flow chart

1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

■ 測試項目(Test Items): 多溴聯苯/多溴聯苯醚, 四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis

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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EXOJET TECHNOLOGY CORPORATION

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NO. 386, NIUPU E. RD., HSINCHU CITY, TAIWAN



\*\* 報告結尾 (End of Report) \*\*

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## 测试报告

No. CANEC1103442904

日期: 2011年09月09日 第1页,共5页

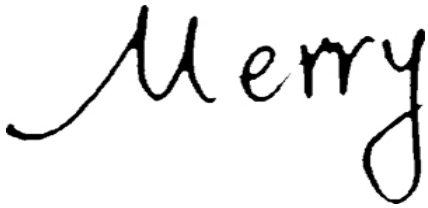
肇庆国华电子有限公司  
中国广东省肇庆市太和北路俊富科技园

以下测试之样品是由申请者所提供及确认:

镍电镀液

SGS工作编号 : 13356359 - GZ  
SGS内部编号 : 6.4  
样品接收日期 : 2011年09月05日  
测试周期 : 2011年09月05日 - 2011年09月09日  
  
测试要求 : 根据客户要求测试  
测试方法 : 请参见下一页  
测试结果 : 请参见下一页

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## 测试报告

No. CANEC1103442904

日期: 2011年09月09日 第2页,共5页

### 测试结果:

样品1 ID : CAN11-034429.002  
 样品1描述 : 绿色液体

### 元素分析

测试项目	单位	测试方法 (参考)	测试结果	MDL
镉 (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
铅 (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
汞 (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
碱性溶液萃取测六价铬(Cr VI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2

### 注释:

1. mg/kg = ppm
2. N.D.= 未检出 (< MDL)
3. MDL = 方法检测限

### 阻燃剂

测试项目	单位	测试方法 (参考)	测试结果	MDL
多溴联苯(PBBs)之和	mg/kg	-	N.D.	-
单溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
二溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
三溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
四溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
五溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
六溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
七溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
八溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
九溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
十溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
多溴二苯醚(PBDEs)之和	mg/kg	-	N.D.	-
单溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
二溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
三溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
四溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
五溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
六溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
七溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
八溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
九溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
十溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5

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注释:

1. mg/kg = ppm
2. N.D.= 未检出 (< MDL)
3. MDL = 方法检测限
4. "-" = 未规定
5. 多溴二苯醚 = 多溴联苯醚

备注1: 所示结果为湿样品总重量中的含量。

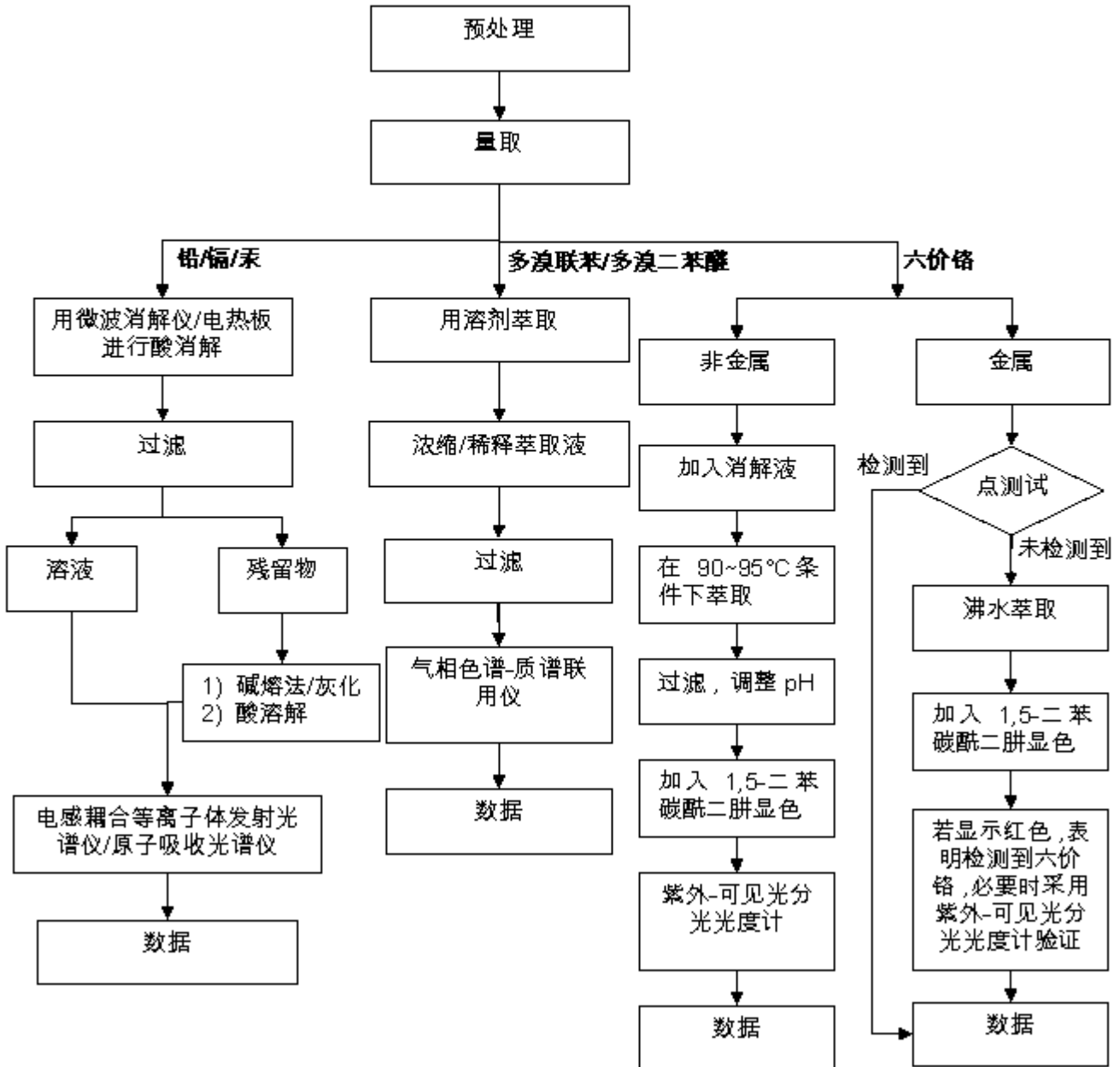
备注2: 本测试报告内容是参照报告编号为CANEC1103442903 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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附件

RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)



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## 测试报告

No. CANEC1103442904

日期: 2011年09月09日 第5页,共5页

样品照片:



此照片仅限于随SGS正本报告使用  
\*\*\* 报告完 \*\*\*

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## 测试报告

No. CANEC1103442906

日期: 2011年09月09日 第1页,共6页

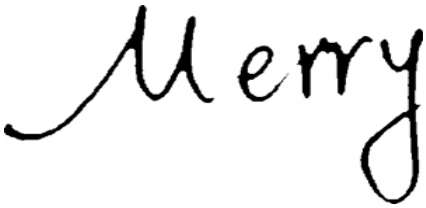
肇庆国华电子有限公司  
中国广东省肇庆市太和北路俊富科技园

以下测试之样品是由申请者所提供及确认:

锡电镀液

SGS工作编号 : 13356359 - GZ  
SGS内部编号 : 6.6  
样品接收日期 : 2011年09月05日  
测试周期 : 2011年09月05日 - 2011年09月09日  
  
测试要求 : 根据客户要求测试  
测试方法 : 请参见下一页  
测试结果 : 请参见下一页

通标标准技术服务有限公司  
授权签名



Merry Lv吕爱凤  
批准签署人

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## 测试报告

No. CANEC1103442906

日期: 2011年09月09日 第2页,共6页

### 测试结果:

样品1 ID : CAN11-034429.003  
 样品1描述 : 黄色液体

### 元素分析

测试项目	单位	测试方法 (参考)	测试结果	MDL
镉 (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
铅 (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
汞 (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
碱性溶液萃取测六价铬(Cr VI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2

### 注释:

1. mg/kg = ppm
2. N.D.= 未检出 (< MDL)
3. MDL = 方法检测限

### 阻燃剂

测试项目	单位	测试方法 (参考)	测试结果	MDL
多溴联苯(PBBs)之和	mg/kg	-	N.D.	-
单溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
二溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
三溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
四溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
五溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
六溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
七溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
八溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
九溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
十溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
多溴二苯醚(PBDEs)之和	mg/kg	-	N.D.	-
单溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
二溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
三溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
四溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
五溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
六溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
七溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
八溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
九溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5
十溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5

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## 测试报告

No. CANEC1103442906

日期: 2011年09月09日 第3页,共6页

### 注释:

1. mg/kg = ppm
2. N.D.= 未检出 (< MDL)
3. MDL = 方法检测限
4. "-" = 未规定
5. 多溴二苯醚 = 多溴联苯醚

### 卤素

测试项目	单位	测试方法 (参考)	测试结果	MDL
氟 (F)	mg/kg	BS EN 14582:2007, IC	N.D.	50
氯 (Cl)	mg/kg	BS EN 14582:2007, IC	100	50
溴 (Br)	mg/kg	BS EN 14582:2007, IC	N.D.	50
碘 (I)	mg/kg	BS EN 14582:2007, IC	N.D.	50

### 注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

备注1: 所示结果为湿样品总重量中的含量。

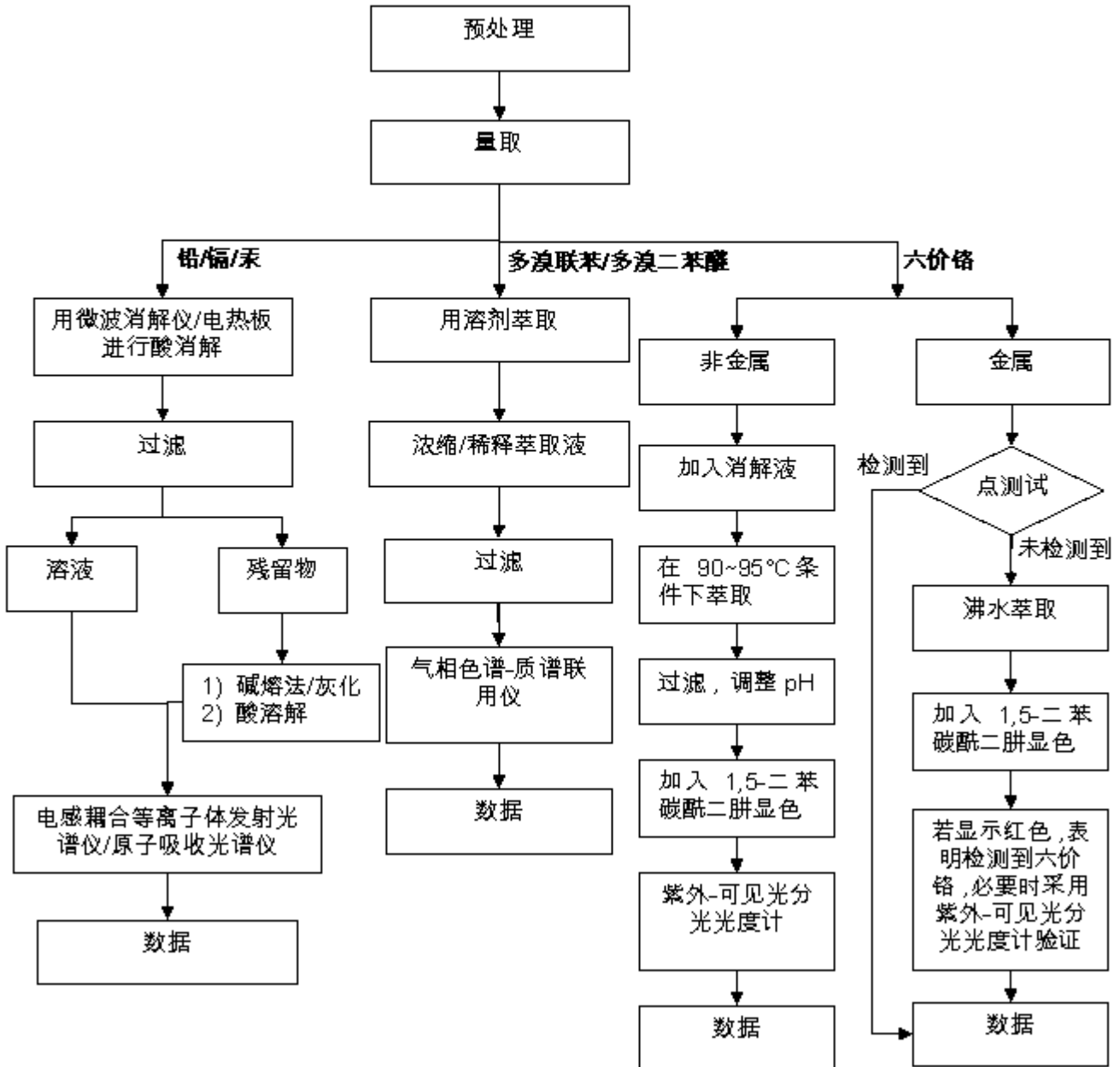
备注2: 本测试报告内容是参照报告编号为CANEC1103442905 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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附件

RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)

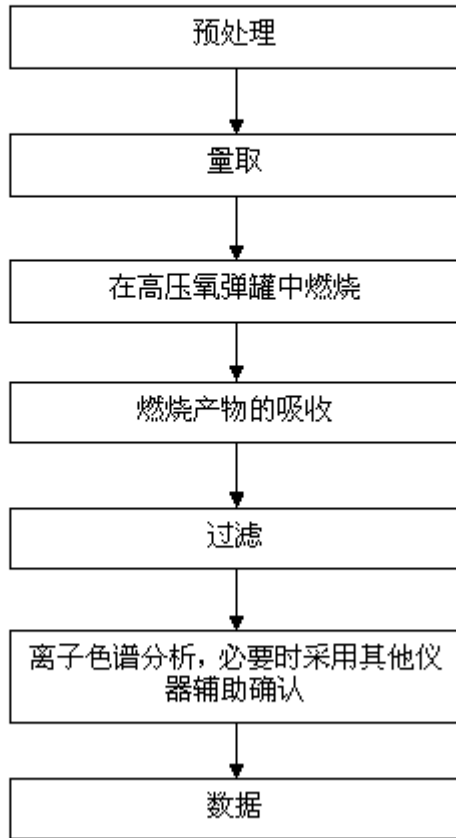


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附件

### Halogen 测试流程图

- 1) 分析人员: 王亮
- 2) 项目负责人: 宋燕青



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## 测试报告

No. CANEC1103442906

日期: 2011年09月09日 第6页,共6页

样品照片:



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**Test Report**

Number: GZHH00068762

Applicant: WELLS ELECTRONIC MATERIAL (GUANGZHOU)  
CO., LTD  
39 JUNGONG RD, ECONOMY AND  
TECHNIC DEVELOPMENT EAST ZONE,  
GUANGZHOU

Date: Mar 29, 2011

Attn: 毛益民

Sample Description:

One (1) submitted sample said to be :环氧树脂

Reference No. : 6050 系列, 6050(NH)系列, 6050-2 系列, 6050-2(NH) 6020H 系列,6020H(NH)系列,  
6010H 系列, 6010H(NH)系列, S-9001 系列, S-9001(NH)系列, 6020H-AF-5 系列,  
6020H-AF-5(NH)系列, N-9001 系列, N-9001(NH)系列, 6013 系列, 6013(NH)系列

Country of Origin : China



\*\*\*\*\*

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

\*\*\*\*\*

Authorized by:  
For Intertek Testing Services  
Guangzhou Ltd. Science City Branch



Ben N.L. Lin  
General Manager





**Test Report**

Number: GZHH00068762

Tests Conducted

1 RoHS Chemical Test

(A) Test Result Summary:

Testing Item	Result
Cadmium (Cd) Content (mg/kg)	ND(<2)
Lead (Pb) Content (mg/kg)	27
Mercury (Hg) Content (mg/kg)	ND(<2)
Chromium (VI)(Cr <sup>6+</sup> ) Content (mg/kg)	ND(<1)
Polybrominated Biphenyls (PBBs)(mg/kg)	
Monobromobiphenyl (MonoBB)	ND(<5)
Dibromobiphenyl (DiBB)	ND(<5)
Tribromobiphenyl (TriBB)	ND(<5)
Tetrabromobiphenyl (TetraBB)	ND(<5)
Pentabromobiphenyl (PentaBB)	ND(<5)
Hexabromobiphenyl (HexaBB)	ND(<5)
Heptabromobiphenyl (HeptaBB)	ND(<5)
Octabromobiphenyl (OctaBB)	ND(<5)
Nonabromobiphenyl (NonaBB)	ND(<5)
Decabromobiphenyl (DecaBB)	ND(<5)
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	
Monobromodiphenyl Ether (MonoBDE)	ND(<5)
Dibromodiphenyl Ether (DiBDE)	ND(<5)
Tribromodiphenyl Ether (TriBDE)	ND(<5)
Tetrabromodiphenyl Ether (TetraBDE)	ND(<5)
Pentabromodiphenyl Ether (PentaBDE)	ND(<5)
Hexabromodiphenyl Ether (HexaBDE)	ND(<5)
Heptabromodiphenyl Ether (HeptaBDE)	ND(<5)
Octabromodiphenyl Ether (OctaBDE)	ND(<5)
Nonabromodiphenyl Ether (NonaBDE)	ND(<5)
Decabromodiphenyl Ether (DecaBDE)	ND(<5)

mg/kg = milligram per kilogram = ppm

< = Less than

ND = Not detected

\*\*\*\*\*





**Test Report**

Number: GZHH00068762

Tests Conducted

Tested sample : Black plastic.

(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321 Edition 1.0:2008, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321 Edition 1.0:2008, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321 Edition 1.0:2008, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr <sup>6+</sup> ) Content	With reference to IEC 62321 Edition 1.0:2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 Edition 1.0:2008, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg

Date sample received: Mar 22, 2011  
Testing period: Mar 22, 2011 to Mar 28, 2011

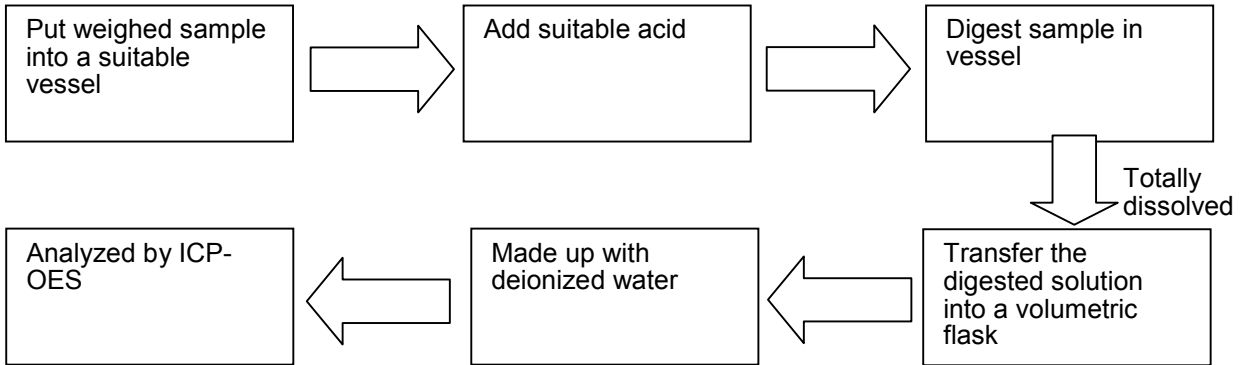
\*\*\*\*\*



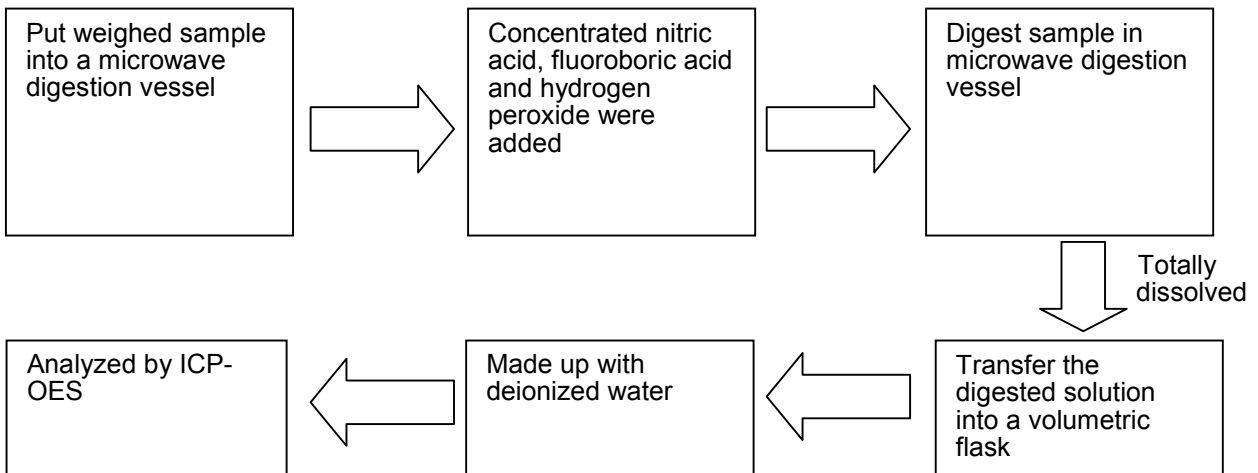
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



\*\*\*\*\*

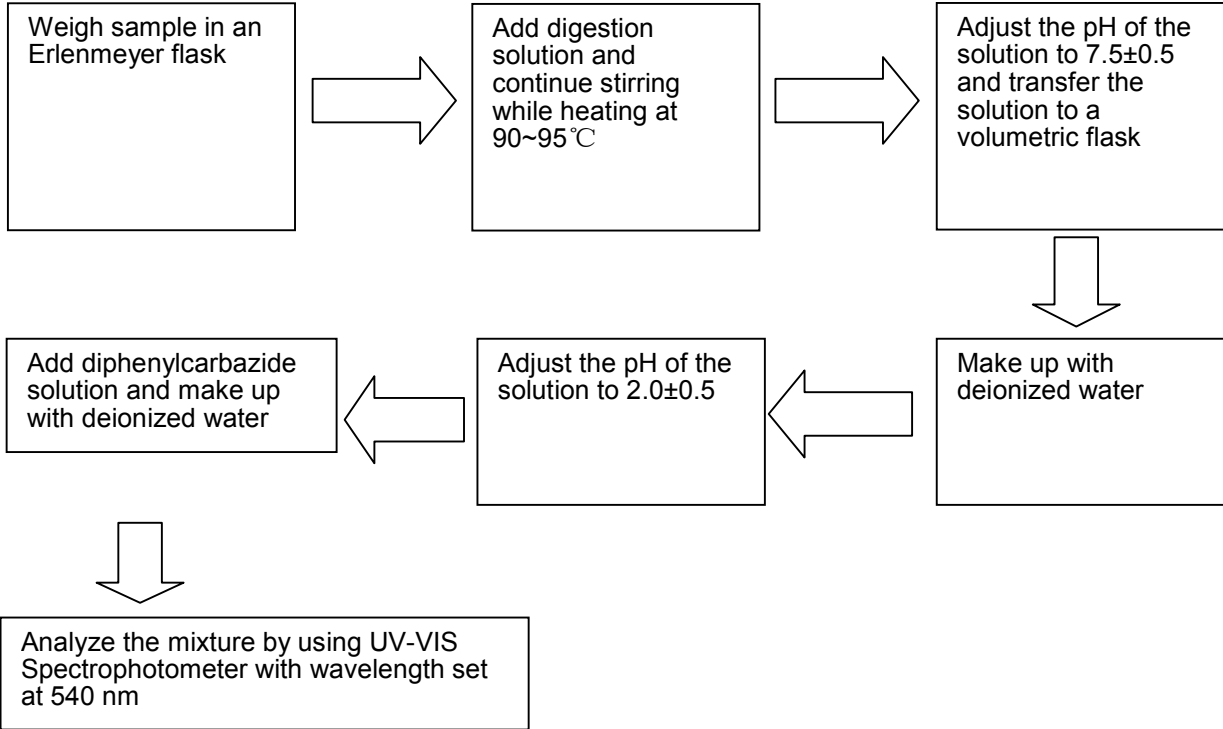


**Test Report**

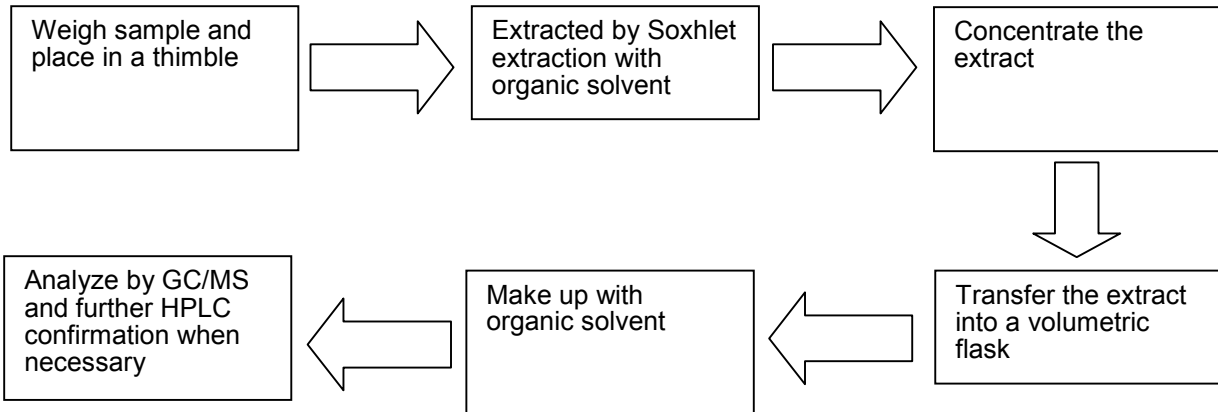
Number: GZHH00068762

Tests Conducted

3. Test for Chromium (VI) ( $\text{Cr}^{6+}$ ) Content (Alkaline Digestion)



4. Test for PBBs/PBDEs Contents



\*\*\*\*\*  
End of report

