

## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 1 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
CASTLE



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

Sample Description : SCHOTTKY, FRED, TVS, ZENER, SWITCHING DIODE, REGULATOR, MOSFET  
Style/Item No. : MBR, SBL, MUR, SB, MR, SERIALS, TO-220, ITO-220 ETC DIP PACKAGE  
Sample Receiving Date : 2010/07/20  
Testing Period : 2010/07/20 TO 2010/07/27

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

Conclusion : Base upon the performed tests by submitted samples, the test results of PAHs **comply with** the PAHs requirement according to (Category 1) of ZEK 01.2-08 of German ZLS and its 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/2010/73938A Date : 2010/10/20 Page : 2 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
 113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
 CASTLE



## Test Result(s)

PART NAME NO.1 : PLATING LAYER OF SILVER COLORED METAL PIN AND METAL SHEET  
 PART NAME NO.2 : BASE MATERIAL OF SILVER COLORED METAL PIN AND METAL SHEET  
 PART NAME NO.3 : BLACK EPOXY

Test Item (s):	Unit	Method	MDL	Result		
				NO.1	NO.2	NO.3
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	n.d.
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	12	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	n.d.
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	n.d.
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 7)	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative	Negative	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	---	---	n.d.

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# Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 3 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
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Test Item (s):	Unit	Method	MDL	Result		
				NO.1	NO.2	NO.3
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	---	---
	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	---	---	n.d.
PFOA (CAS No.: 000335-67-1)	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.	---	---
	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	---	---	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.
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	---	---	n.d.
Monobromobiphenyl			5	---	---	n.d.
Dibromobiphenyl			5	---	---	n.d.
Tribromobiphenyl			5	---	---	n.d.
Tetrabromobiphenyl			5	---	---	n.d.
Pentabromobiphenyl			5	---	---	n.d.
Hexabromobiphenyl			5	---	---	n.d.
Heptabromobiphenyl			5	---	---	n.d.
Octabromobiphenyl			5	---	---	n.d.
Nonabromobiphenyl			5	---	---	n.d.
Decabromobiphenyl			5	---	---	n.d.
<b>Sum of PBDEs</b>			-	---	---	n.d.
Monobromodiphenyl ether			5	---	---	n.d.
Dibromodiphenyl ether			5	---	---	n.d.
Tribromodiphenyl ether			5	---	---	n.d.
Tetrabromodiphenyl ether			5	---	---	n.d.
Pentabromodiphenyl ether			5	---	---	n.d.
Hexabromodiphenyl ether			5	---	---	n.d.
Heptabromodiphenyl ether			5	---	---	n.d.
Octabromodiphenyl ether			5	---	---	n.d.
Nonabromodiphenyl ether	5	---	---	n.d.		
Decabromodiphenyl ether	5	---	---	n.d.		

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# Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 4 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
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Test Item (s):	Unit	Method	MDL	Result		
				NO.1	NO.2	NO.3
<b>Polynuclear Aromatic Hydrocarbons (PAHs)</b>						
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	---	---	n.d.
Acenaphthylene (CAS No.: 000208-96-8)			0.2	---	---	n.d.
Anthracene (CAS No.: 000120-12-7)			0.2	---	---	n.d.
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	---	---	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	---	---	n.d.
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	---	---	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	---	---	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	---	---	n.d.
Chrysene (CAS No.: 000218-01-9)			0.2	---	---	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	---	---	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	---	---	n.d.
Fluorene (CAS No.: 000086-73-7)			0.2	---	---	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	---	---	n.d.
Naphthalene (CAS No.: 000091-20-3)			0.2	---	---	n.d.
Phenanthrene (CAS No.: 000085-01-8)			0.2	---	---	n.d.
Pyrene (CAS No.: 000129-00-0)			0.2	---	---	n.d.
<b>Sum of 16 PAHs</b>			-	---	---	n.d.

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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 5 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
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### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. "---" = Not Conducted
6. \*\* = Qualitative analysis (No Unit)
7. 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.

### PFOS Reference Information : Directive 2006/122/EC

(1) 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) 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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# Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 6 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
 113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
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**Reference information for PAHs:**

**Requirement of ZEK 01.2-08 : Restraining maximum values for products**

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA-PAH (mg/kg)*	<MDL (<0.2)**	10	200

**Remark :**

- \* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- \*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 7 of 15

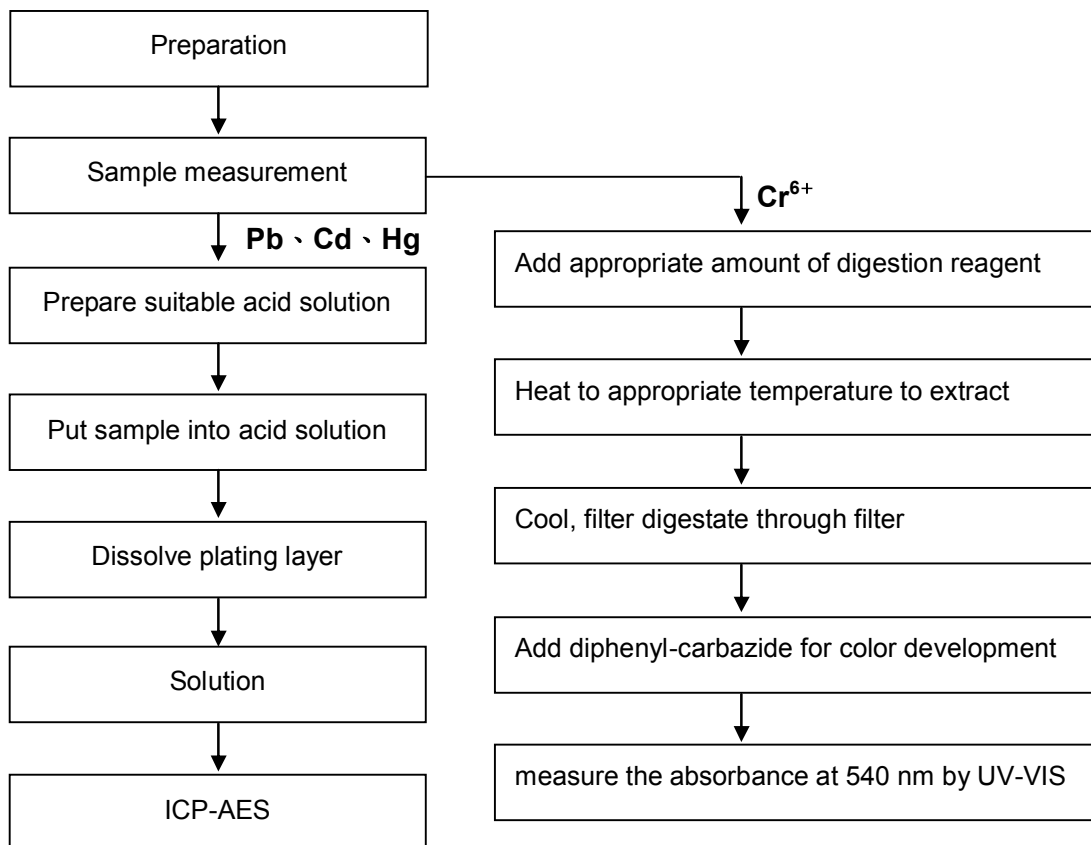
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PART NAME NO.1

- 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

### Flow Chart of Stripping method for metal analysis



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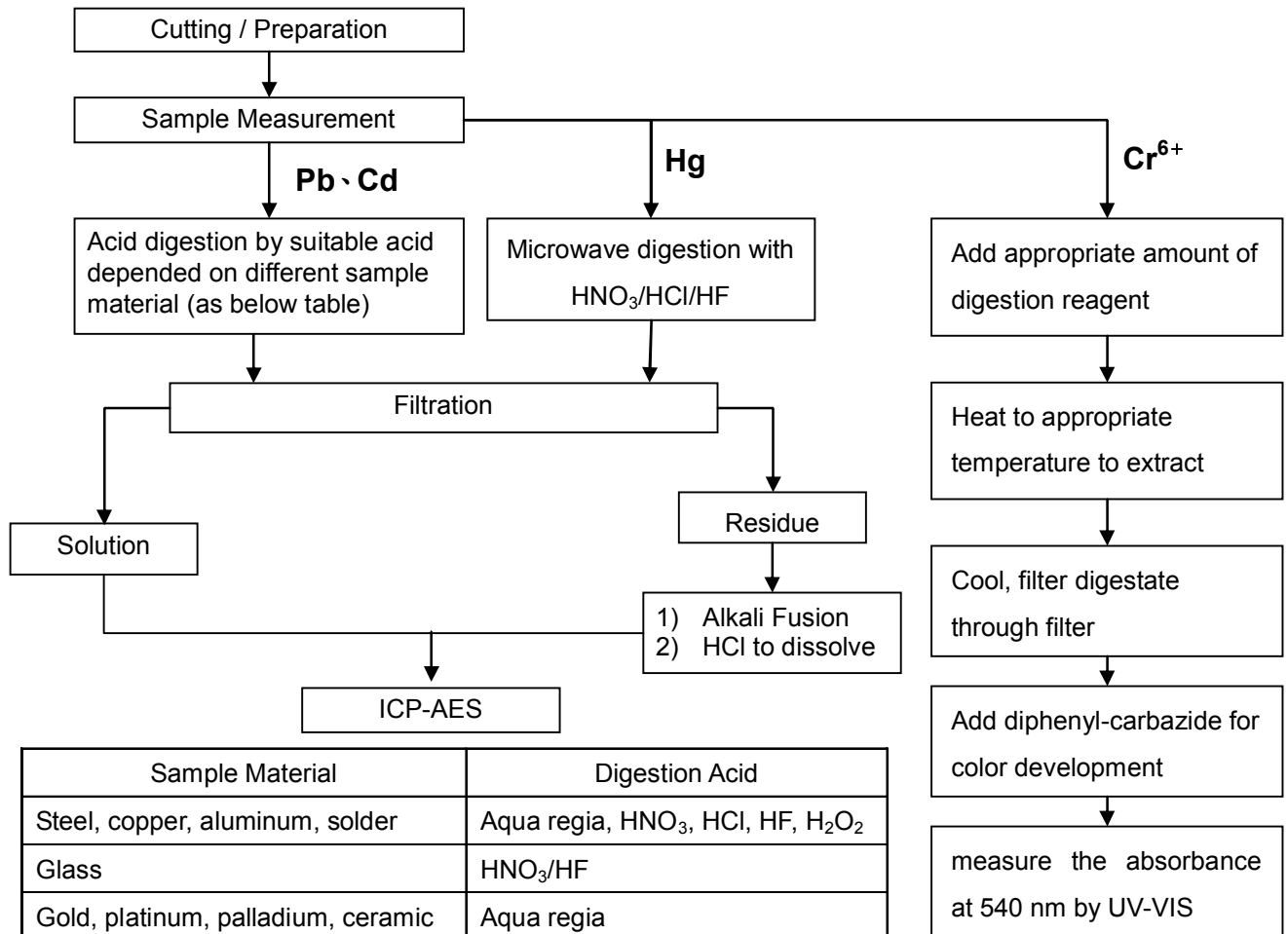
No. : CE/2010/73938A Date : 2010/10/20 Page : 8 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
 113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
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### PART NAME NO.2 AND NO.3

- 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



Sample Material	Digestion Acid
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/2010/73938A Date : 2010/10/20 Page : 9 of 15

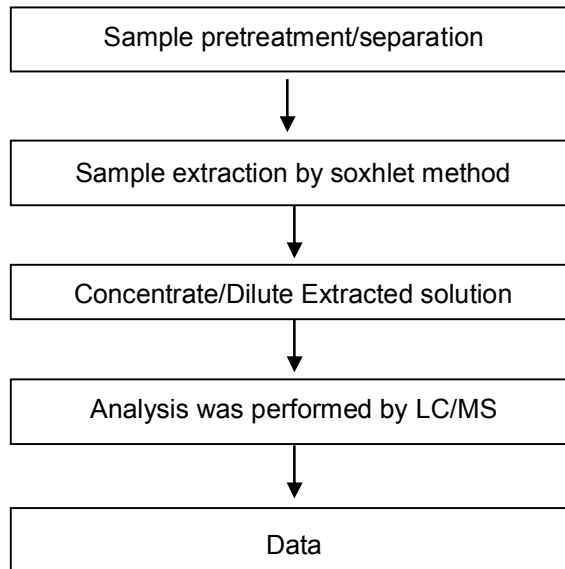
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## Analytical flow chart of Soxhlet extraction (LC/MS) procedure

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

■ Test Items: PFOS/PFOA、Benzotriazole



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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 10 of 15

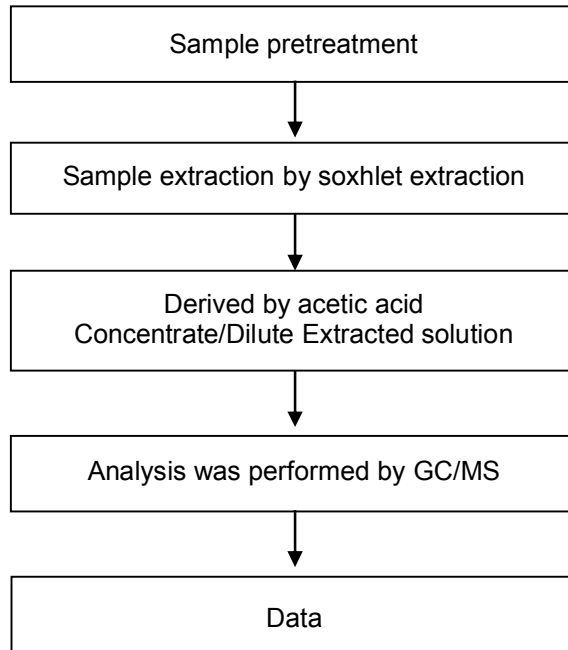
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### Analytical flow chart

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

■ Test Items: TBBP-A 、 Bisphenol A



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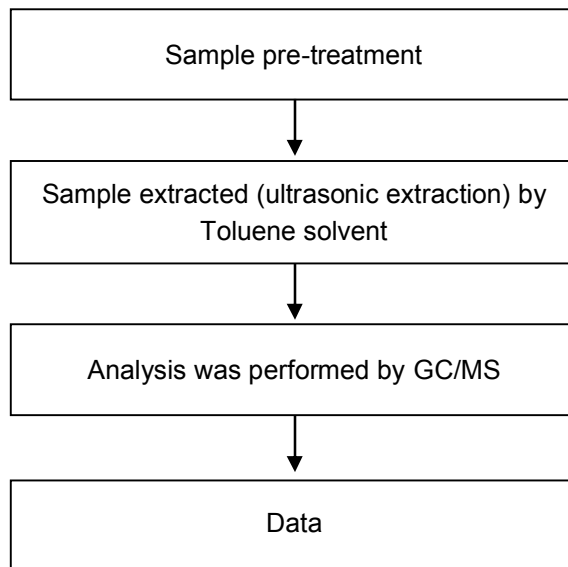
No. : CE/2010/73938A Date : 2010/10/20 Page : 11 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
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### PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

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



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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 12 of 15

SIRECTIFIER GLOBAL CORPORATION, DELAWARE, U. S. A.  
 113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW  
 CASTLE

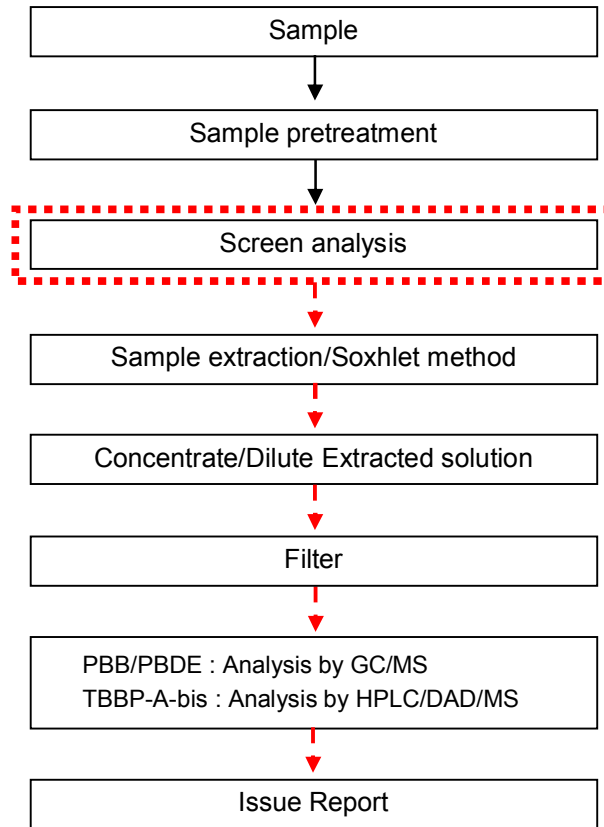


### Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang

■ Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process ..... Confirmation process - ->



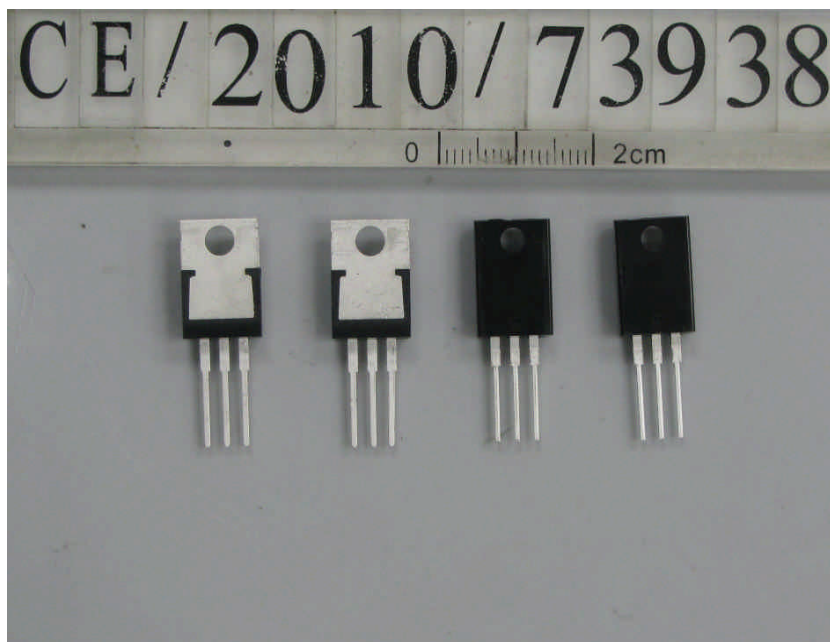
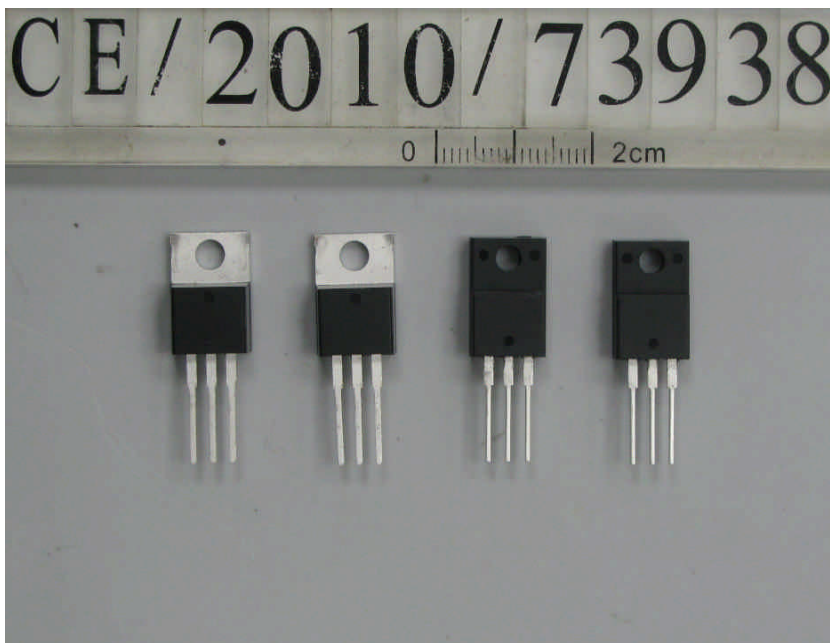
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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 13 of 15

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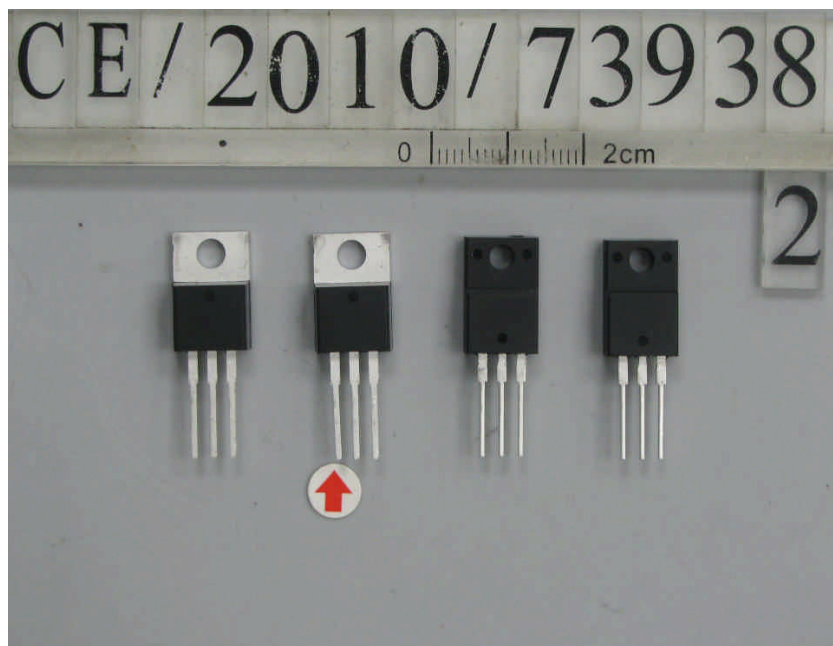
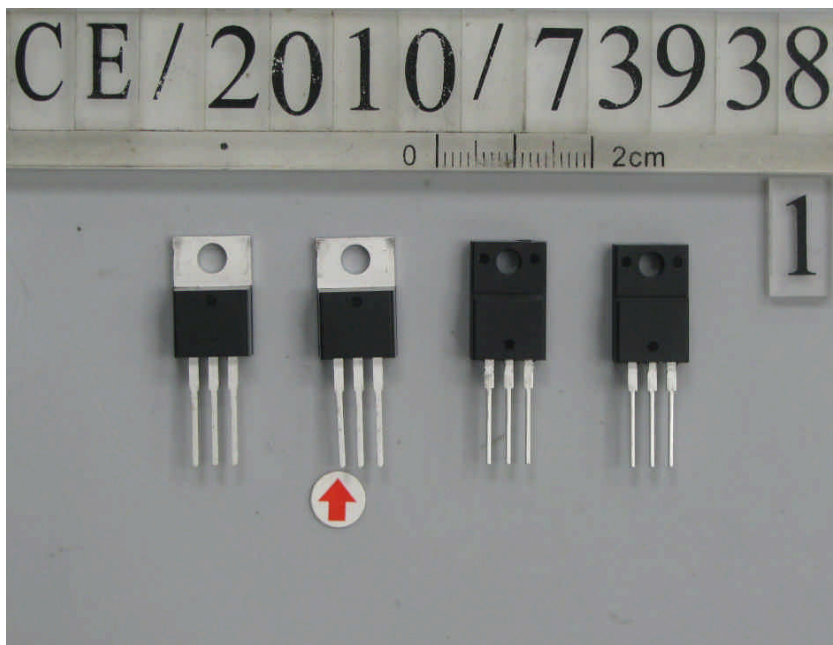
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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 14 of 15

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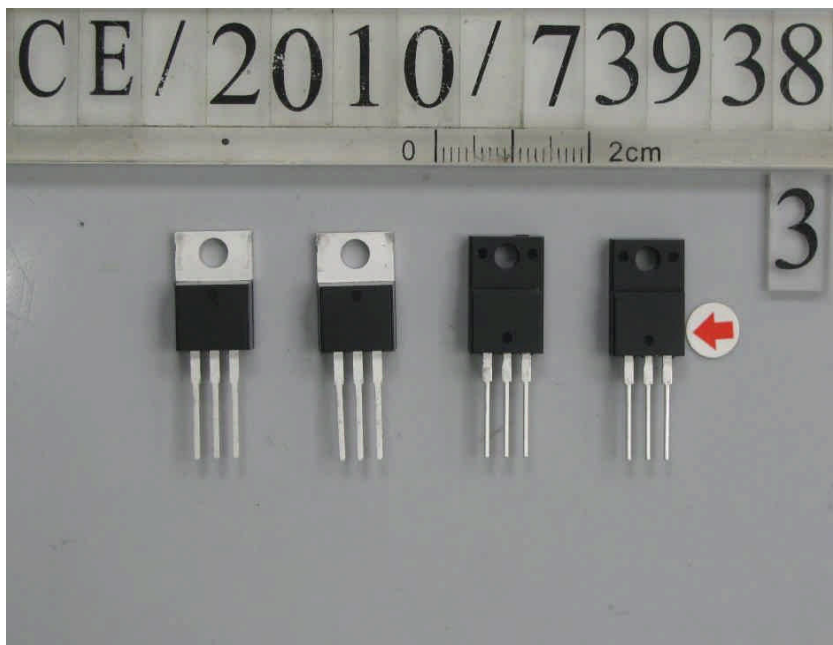
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## Test Report

No. : CE/2010/73938A Date : 2010/10/20 Page : 15 of 15

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