

## Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 1 of 13

COMCHIP TECHNOLOGY CO., LTD.

NO.31, YONGXIN LN., YINGTAO RD., YINGGE DIST., NEW TAIPEI CITY 239, TAIWAN  
(R.O.C.)



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

Sample Description : SMD DIOSES  
Style/Item No. : SOD-523 / SOD-323 / SOD-323S / MINI-SMA(SOD-123) / SOD-123T / SOD-123ST /  
SOD-123H / SOD-123S / SOD-123HT / MINI-MELF (DO-213AA) / SMA(DO-214AC) /  
SMA-S / SMA-L / SMA-FL / SMA-SL / SMA-F / MELF (DO-213AB) / SMB(DO-214AA) /  
SMB-S / SMB-F / SMC (DO-214AB) / SMC-T1 / SMC-F / TO-252 (D-PAK) / ASM-10A /  
ASM-10C / TO-263 (D2-PAK)  
Sample Receiving Date : 2011/03/09 AND 2011/03/09  
Testing Period : 2011/01/31 TO 2011/02/10 AND 2011/03/09 TO 2011/03/16

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

This report is combined with reports of CE/2011/16277 and CE/2011/32655.

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

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# Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 2 of 13

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## Test Result(s)

PART NAME No.1 : PLATING LAYER OF SILVER COLORED METAL (INCLUDING THE FRAME) (CE/2011/16277 No.1)  
PART NAME No.2 : BASE MATERIAL OF COPPER COLORED METAL (CE/2011/16277 No.2)  
PART NAME No.3 : MIXED ALL PARTS (CE/2011/16277 No.3)  
PART NAME No.4 : PLATING LAYER OF SILVER COLORED METAL (INCLUDING THE FRAME) (CE/2011/32655)

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---	---
Cadmium (Cd)	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	---	---	---	67
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	7	12000	---
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---	---
Mercury (Hg)	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 5)	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.	---
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	6	---	---	---

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Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
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.	---	---	---
PFOA (CAS No.: 335-67-1)	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.	---	---	---
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	---	---	n.d.	---
Monobromobiphenyl	mg/kg		5	---	---	n.d.	---
Dibromobiphenyl	mg/kg		5	---	---	n.d.	---
Tribromobiphenyl	mg/kg		5	---	---	n.d.	---
Tetrabromobiphenyl	mg/kg		5	---	---	n.d.	---
Pentabromobiphenyl	mg/kg		5	---	---	n.d.	---
Hexabromobiphenyl	mg/kg		5	---	---	n.d.	---
Heptabromobiphenyl	mg/kg		5	---	---	n.d.	---
Octabromobiphenyl	mg/kg		5	---	---	n.d.	---
Nonabromobiphenyl	mg/kg		5	---	---	n.d.	---
Decabromobiphenyl	mg/kg		5	---	---	n.d.	---
<b>Sum of PBDEs</b>	mg/kg		-	---	---	n.d.	---
Monobromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Dibromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Tribromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Tetrabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Pentabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Hexabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Heptabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Octabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Nonabromodiphenyl ether	mg/kg		5	---	---	n.d.	---
Decabromodiphenyl ether	mg/kg		5	---	---	n.d.	---

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# Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 4 of 13

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(R.O.C.)



Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
<b>Halogen</b>							
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was	50	---	---	n.d.	---
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was	50	---	---	n.d.	---
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was	50	---	---	n.d.	---
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was	50	---	---	n.d.	---

## 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.

8. 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.

## 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/2011/32655D Date : 2011/04/22 Page : 5 of 13

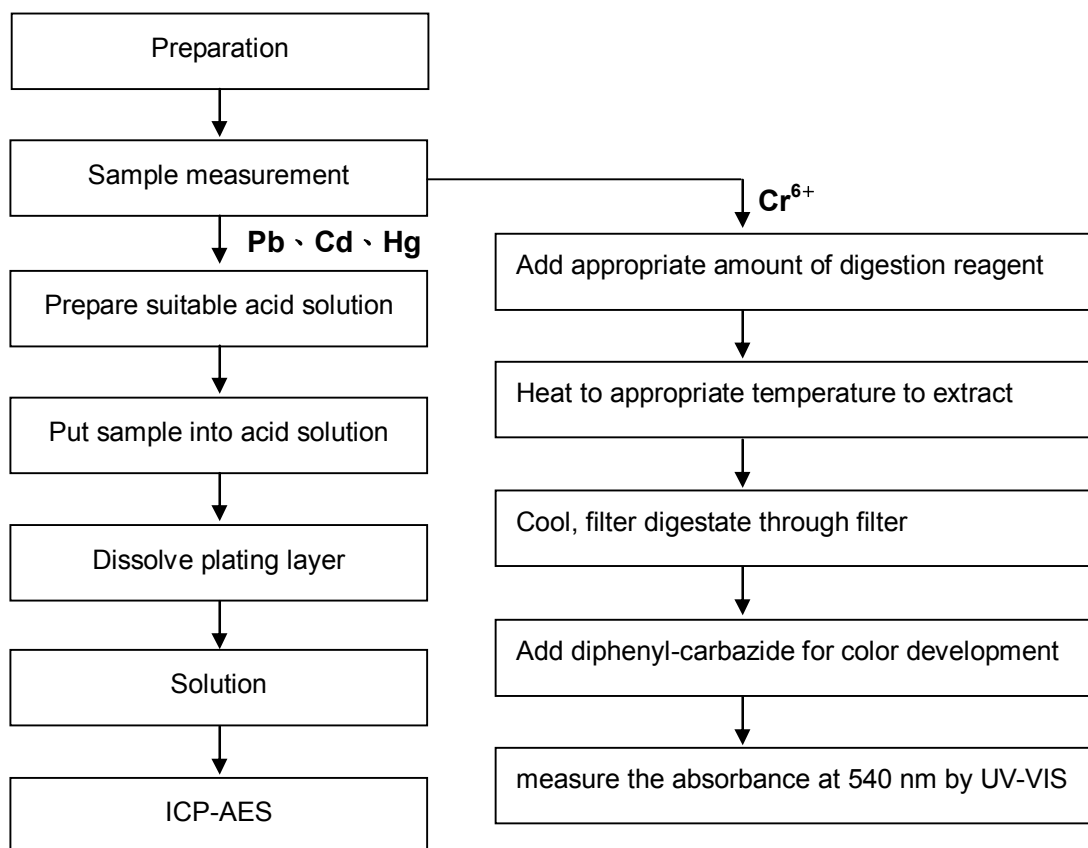
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NO.31, YONGXIN LN., YINGTAO RD., YINGGE DIST., NEW TAIPEI CITY 239, TAIWAN  
(R.O.C.)



- 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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## Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 6 of 13

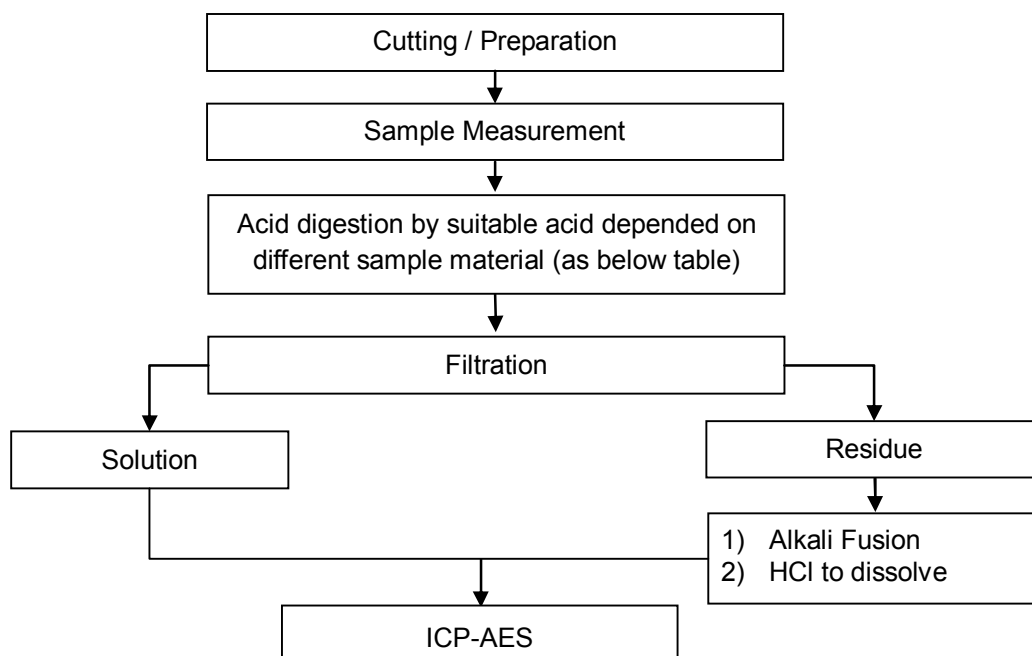
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

### 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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No. : CE/2011/32655D Date : 2011/04/22 Page : 7 of 13

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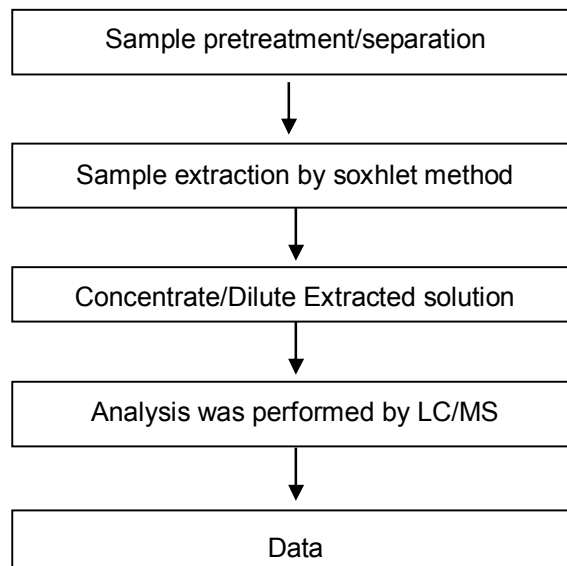
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### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

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

■ Test Items: PFOS/PFOA 、Benzotriazole



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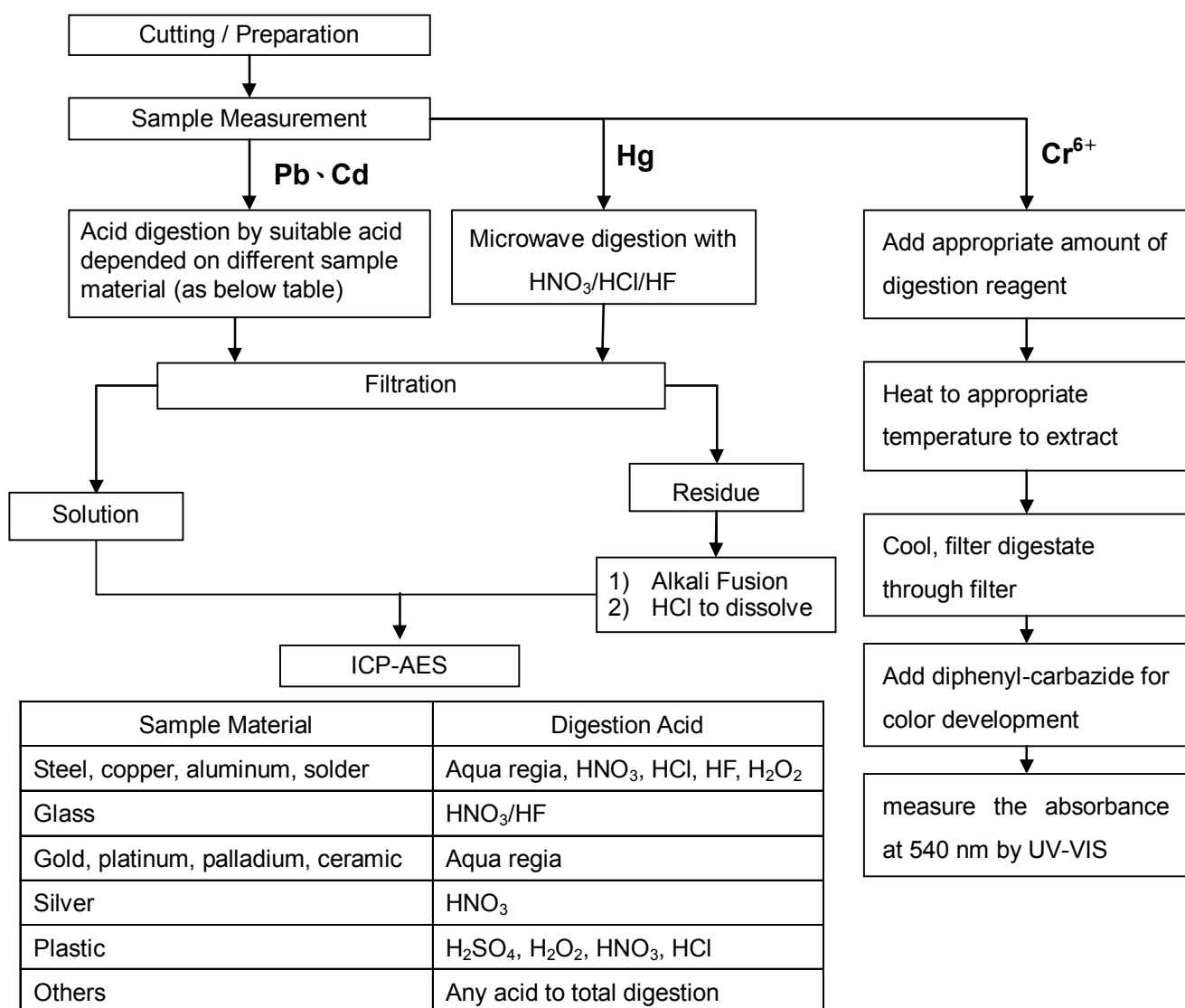
No. : CE/2011/32655D Date : 2011/04/22 Page : 8 of 13

COMCHIP TECHNOLOGY CO., LTD.

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- 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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## Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 9 of 13

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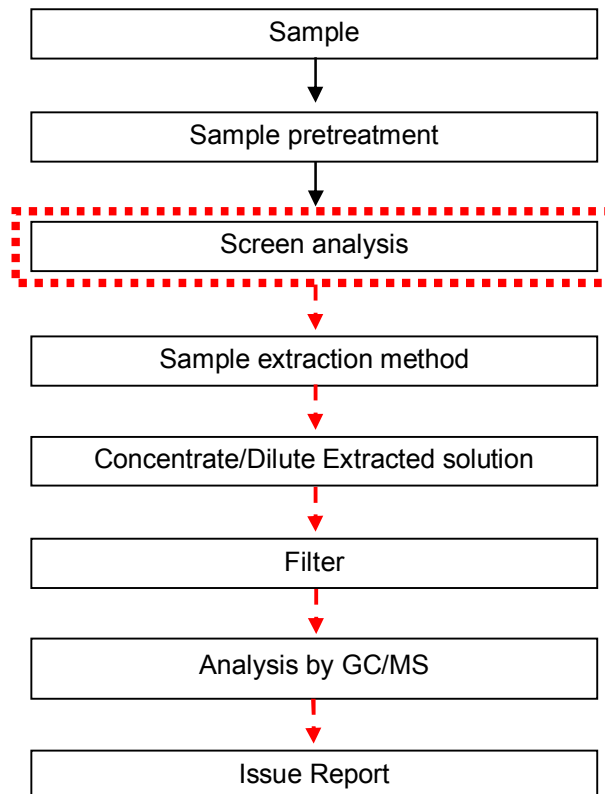


### Analytical flow chart

- 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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No. : CE/2011/32655D Date : 2011/04/22 Page : 10 of 13

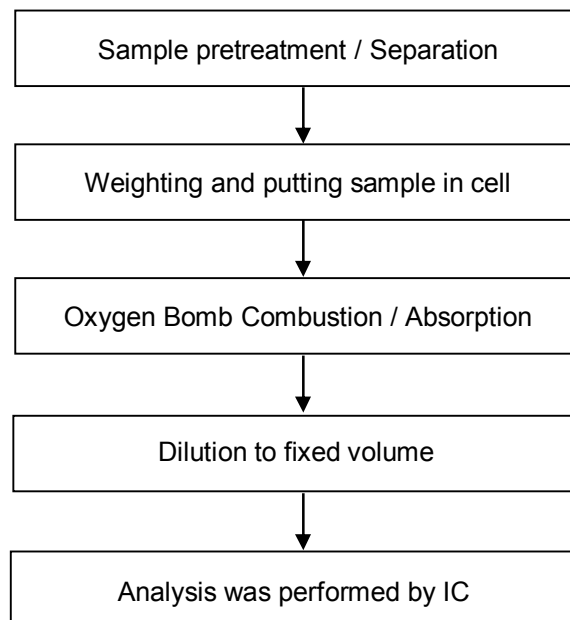
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### Analytical flow chart of halogen content

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



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## Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 11 of 13

COMCHIP TECHNOLOGY CO., LTD.  
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### PART NAME No.1



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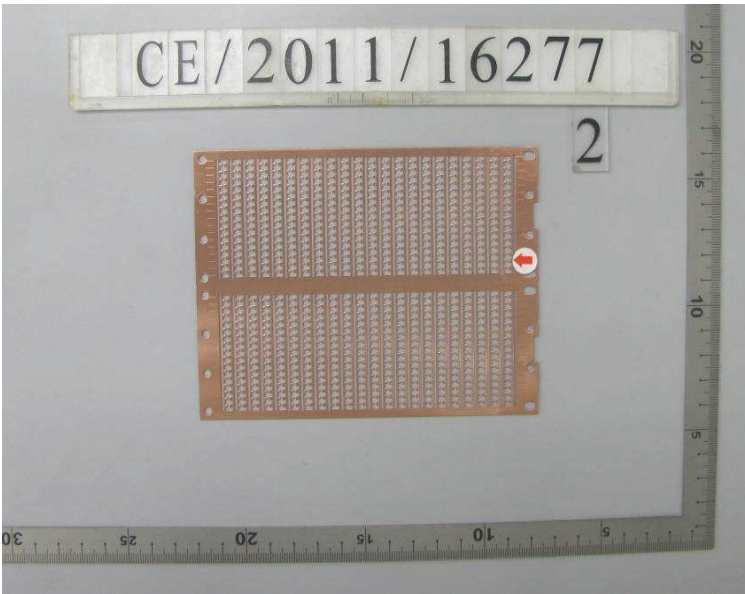
## Test Report

No. : CE/2011/32655D Date : 2011/04/22 Page : 12 of 13

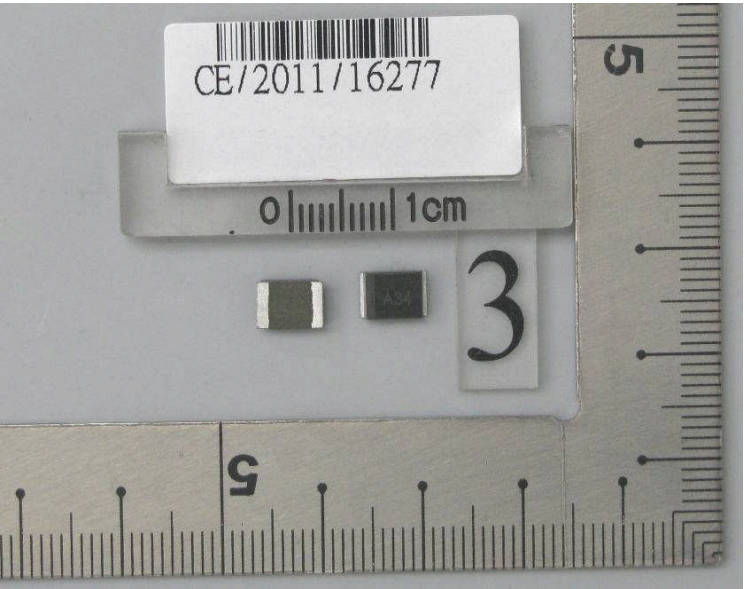
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### PART NAME No.2



### PART NAME No.3



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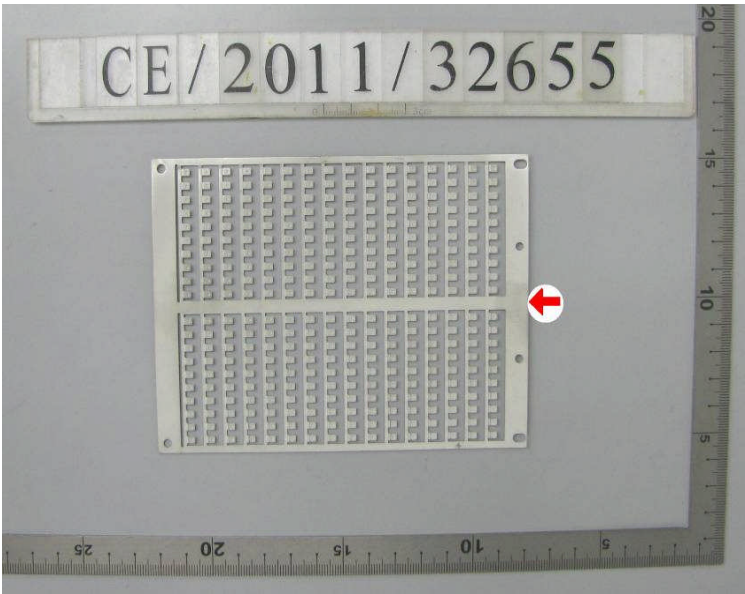
## Test Report

No. : CE/2011/32655D    Date : 2011/04/22    Page : 13 of 13

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### PART NAME No.4



**\*\* End of Report \*\***

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