

Test Report

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GREATEK ELECTRONICS INC.
136, GUNG-YI RD., CHUNAN CHENG, MIAOLI HSIEN 350, TAIWAN, R. O. C.



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

Sample Description : IC (SOP & SSOP & P-DIP & SOJ & SOT SERIES)
Sample Receiving Date : 2012/02/14
Testing Period : 2012/02/14 TO 2012/02/21

=====
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

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Test Result(s)

PART NAME No.1 : MIXED ALL PARTS OF BODY (5 TYPES)
PART NAME No.2 : MIXED PLATING LAYER OF SILVER COLORED METAL PIN (5 TYPE)

Test Item(s)	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
		IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
		IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	23
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
		IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	---
	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	---	Negative
Sum of PBBs	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.	---

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Test Item(s)	Unit	Method	MDL	Result	
				No.1	No.2
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	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.	---

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. # = a. Positive means the presence of CrVI on the tested areas
b. Negative means the absence of CrVI on the tested areas
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas.
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.

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Test Report

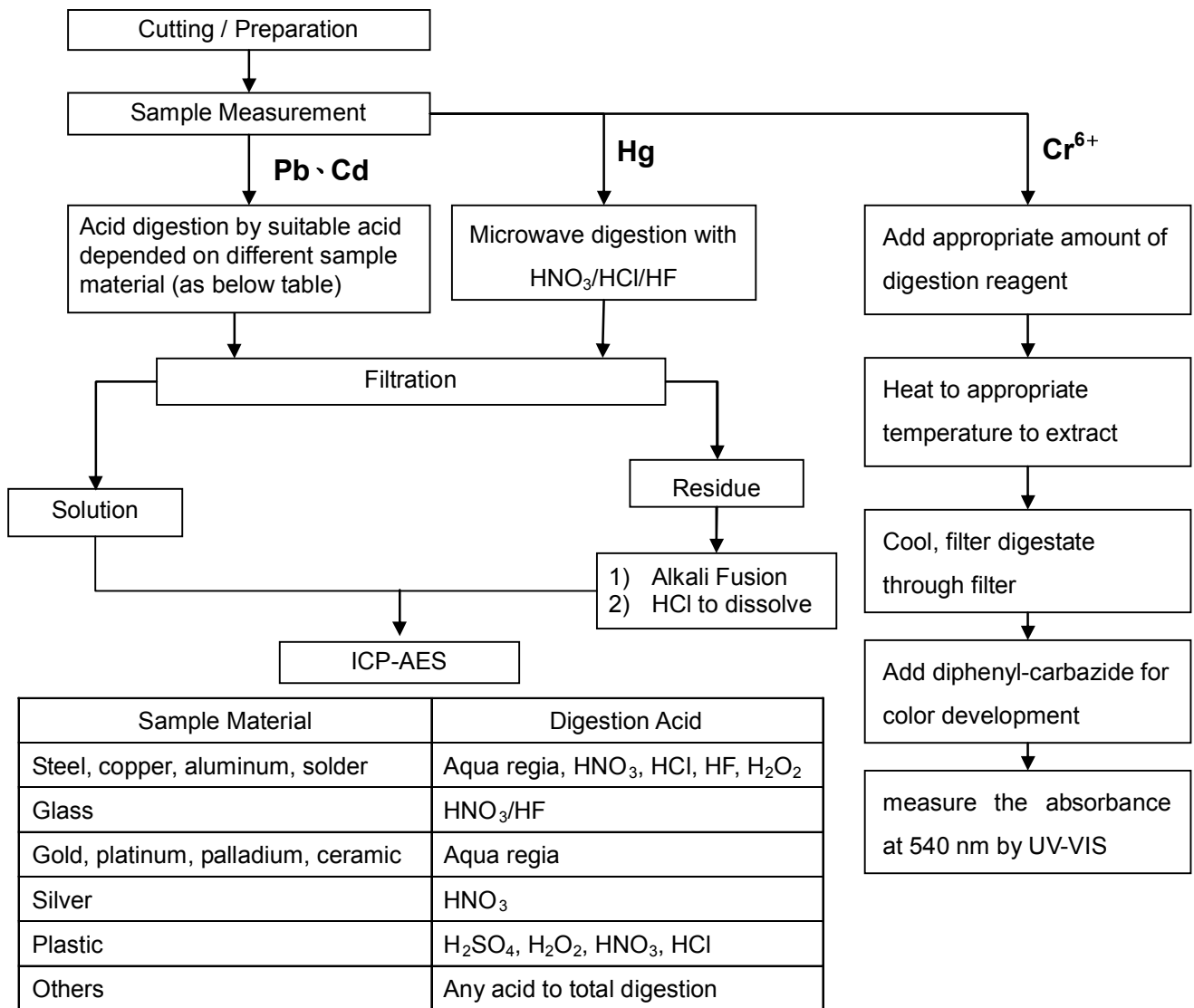
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No.1

- 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: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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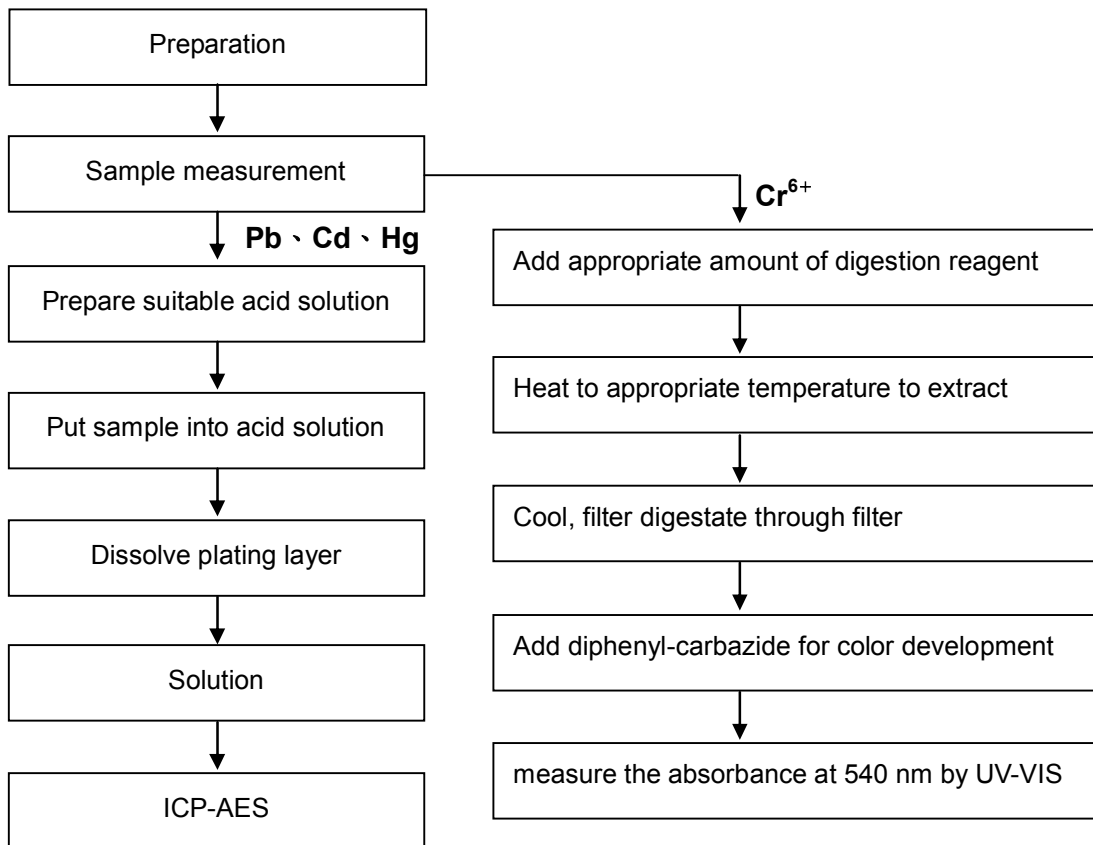
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No.2

- 1) The plating layer of 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: 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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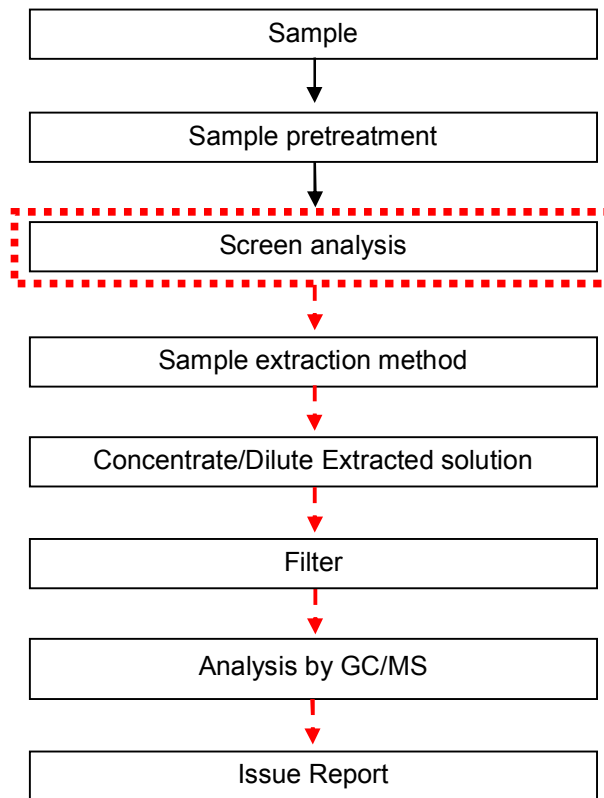


Analytical flow chart

- Name of the person who made measurement: Roman Wong
- 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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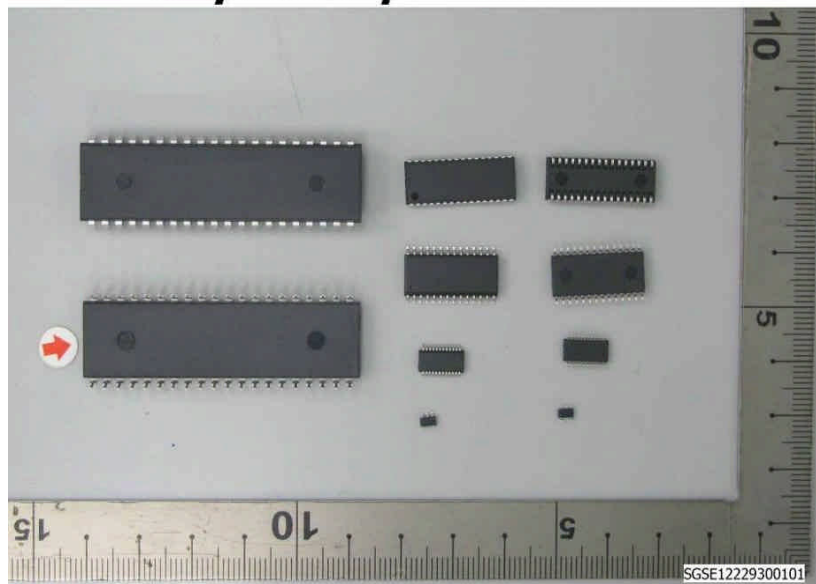
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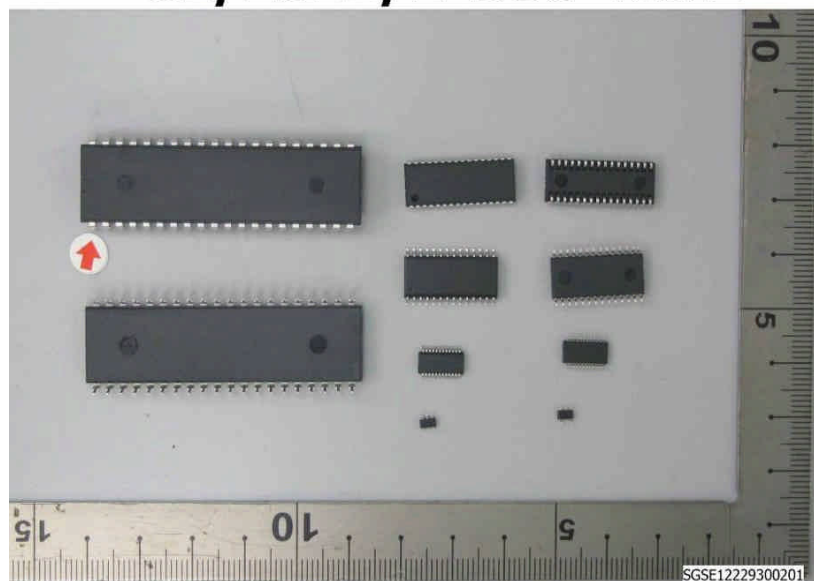


* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2012/22930 NO.1



CE/2012/22930 NO.2



** End of Report **

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