

Test Report

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DC COMPONENTS CO., LTD.

6F., NO. 308, SEC. 1, DONGSHAN RD., TAICHUNG, TAIWAN, R. O. C.

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

Sample Description : PLASTIC RECTIFIER
Style/Item No. : R-1, A-405, DO-41, DO-15, R-3, DO-27, DO-201AE, R-6M, R-6, SOD-123, SOD-123F, SOD-323, SOD-323F, SOD-523, SOD-723, SOT-23, SOT-223, SOT-323, SOT-346, SOT-416, SOT-353, SOT-363, SOT-89, HVM, TO-220A, TO-220, TO-3, TO-3P, TO-92, TO-92S, TO-126, TO-126ML, TO-251, TO-252, TO-263, SMA, SMB, SMC, SM-1, SM-2, RA, RAS, 0603, 0805, 1005, 1006, 1206, 2010, 2114, DB-1, DB-1S, DB-1MS, RB-15, RC-2, WOM, RS-1, RS-2, RS-5, HBL, HBU, TBL, KBL, KBU, KBJ, KBK, KBP, KBPC-6/8/10, BR-3, BR-6, BR-25, BR-25L, BR-25W, MB-25, MB-25W, MBR-25, MBR-25W, MMB-25, MMB-25W, MP-6, MP-8, GBJ-2, GBJ4-10, GBK, GBL, GBU, GBP, GBPC-6/8/10, TBS, MBF

Sample Receiving Date : 2010/06/29
Testing Period : 2010/06/29 TO 2010/07/07

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Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321: 2008
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.
- (5) Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
- (6) Determination of PBB and PBDE by GC/MS.

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 results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	8	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	---	Negative	See Note 4
Sum of PBBs	(6)	n.d.	---	-
Monobromobiphenyl		n.d.	---	5
Dibromobiphenyl		n.d.	---	5
Tribromobiphenyl		n.d.	---	5
Tetrabromobiphenyl		n.d.	---	5
Pentabromobiphenyl		n.d.	---	5
Hexabromobiphenyl		n.d.	---	5
Heptabromobiphenyl		n.d.	---	5
Octabromobiphenyl		n.d.	---	5
Nonabromobiphenyl		n.d.	---	5
Decabromobiphenyl		n.d.	---	5
Sum of PBDEs		n.d.	---	-
Monobromodiphenyl ether		n.d.	---	5
Dibromodiphenyl ether		n.d.	---	5
Tribromodiphenyl ether		n.d.	---	5
Tetrabromodiphenyl ether		n.d.	---	5
Pentabromodiphenyl ether		n.d.	---	5
Hexabromodiphenyl ether		n.d.	---	5
Heptabromodiphenyl ether		n.d.	---	5
Octabromodiphenyl ether		n.d.	---	5
Nonabromodiphenyl ether	n.d.	---	5	
Decabromodiphenyl ether	n.d.	---	5	

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TEST PART DESCRIPTION:

NO.1 : BODY

NO.2 : SILVER COLORED METAL (INCLUDING THE PLATING LAYER)

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. 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 cm² sample surface area.

5. "-" = Not Regulated

6. "---" = Not Conducted

7. 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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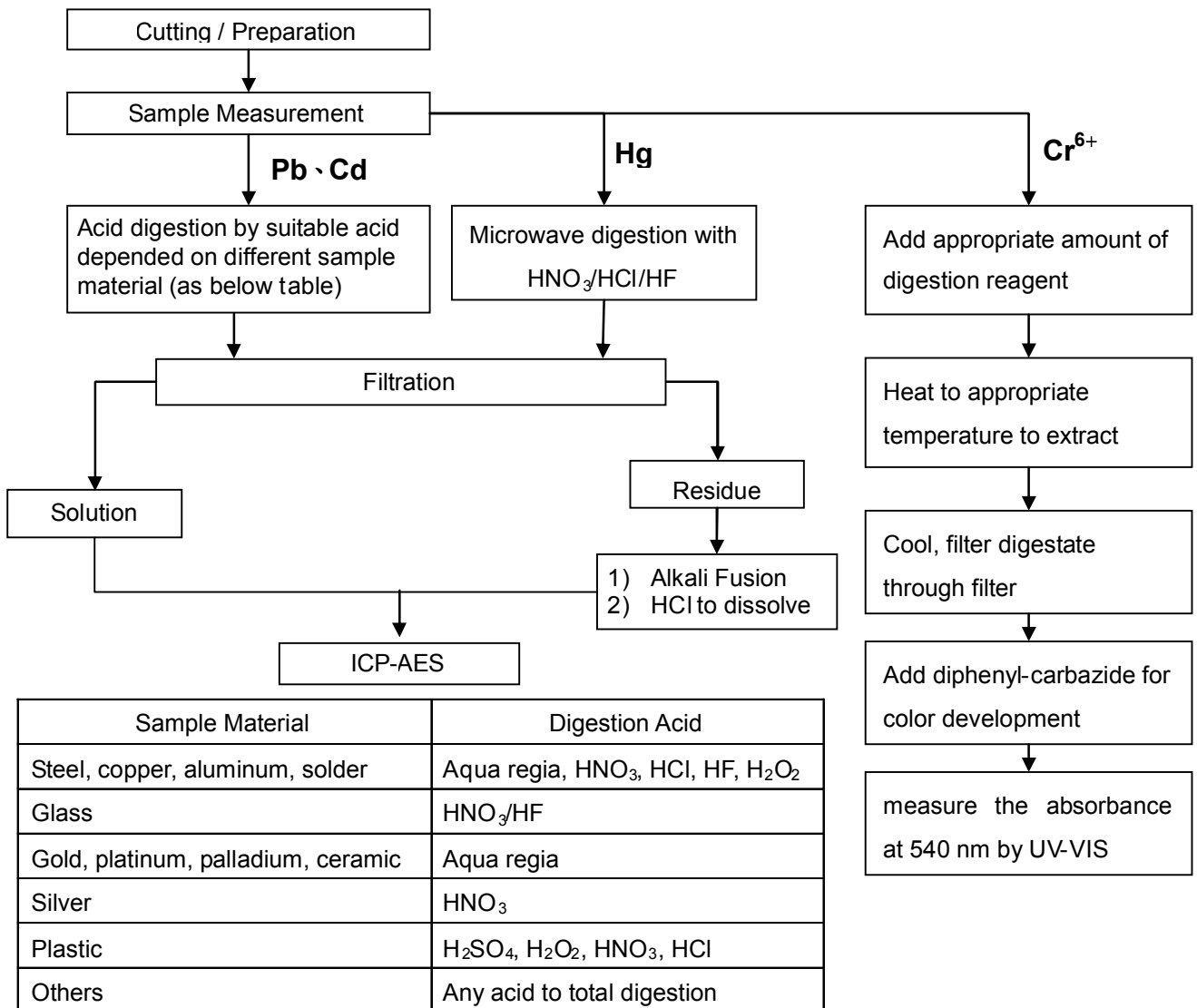
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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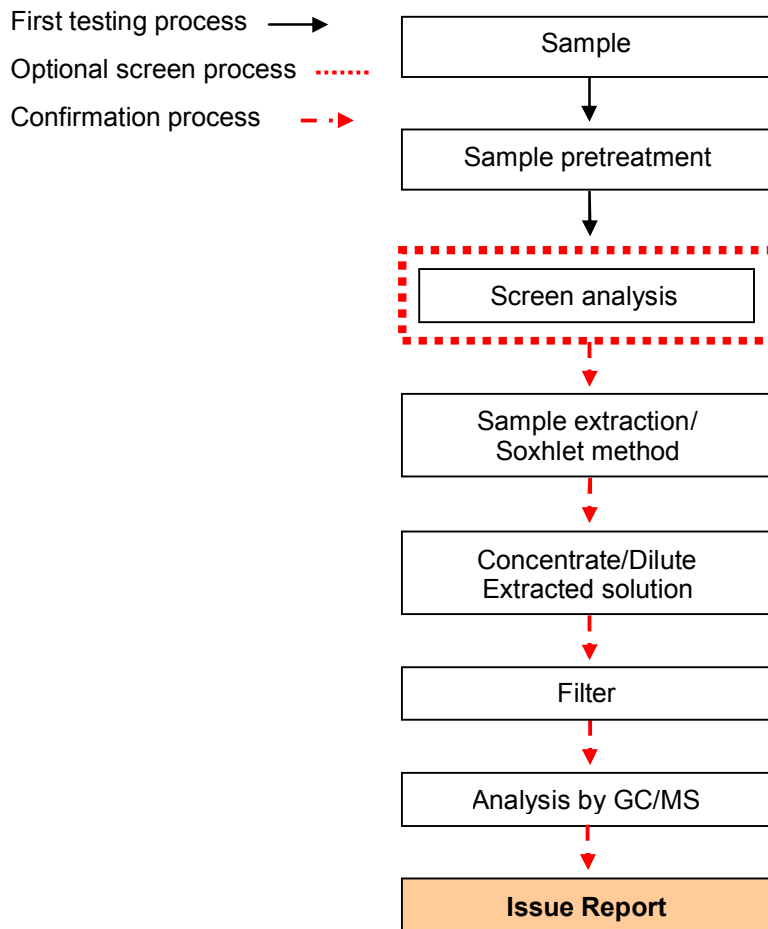
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PBB/PBDE analytical FLOW CHART

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



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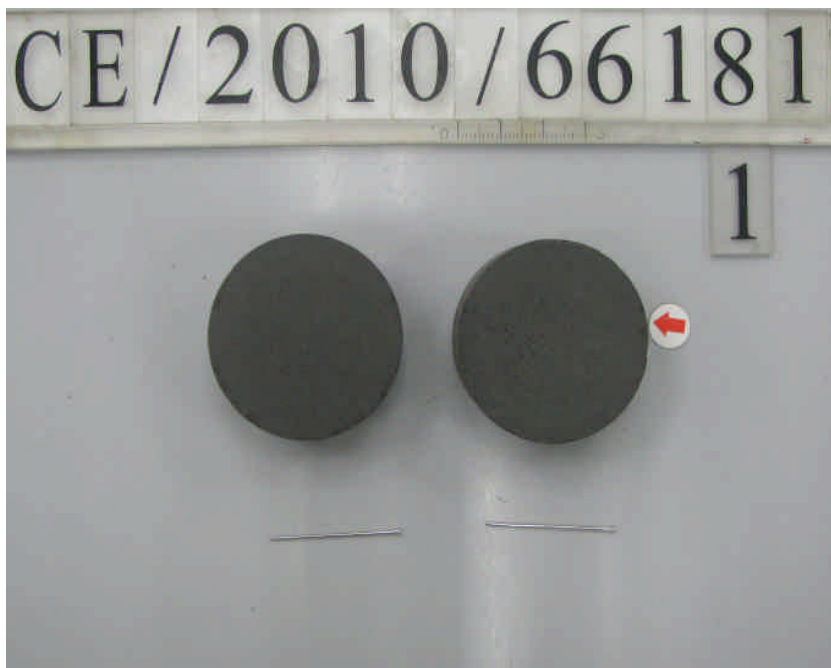
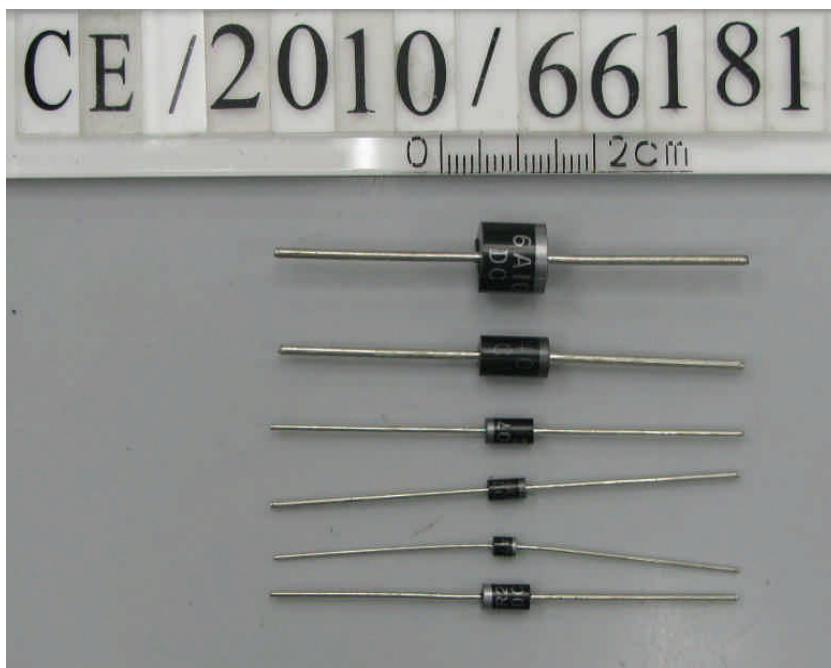
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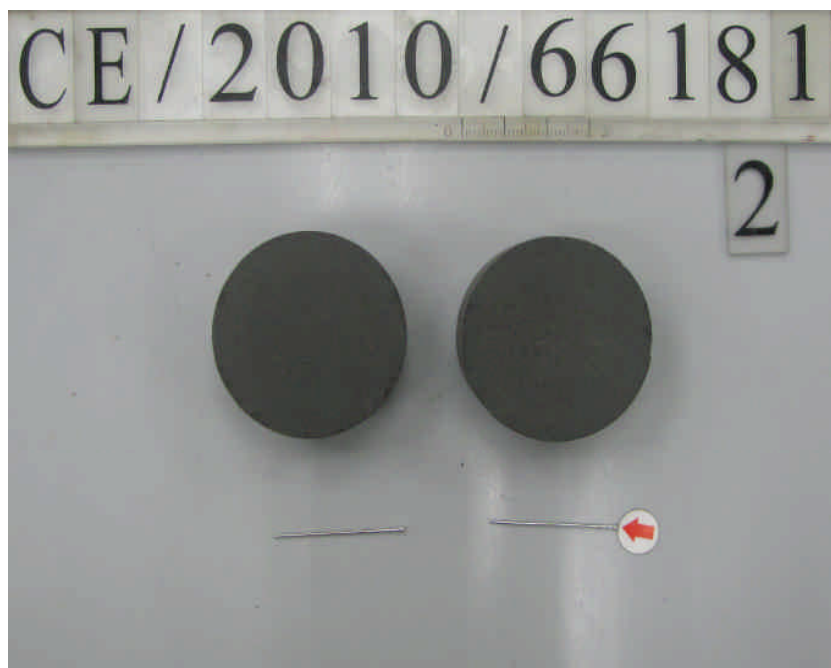
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** End of Report **

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