

Test Report

No. : CE/2009/85412A Date : 2009/09/03

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RECOM DEVELOPMENT & TRADING GMBH & CO KG
TECHNOLOGIEZENTRUM SALZKAMMERGUT; KROTTENSEESTR. 45,
4810 GMUNDEN; AUSTRIA



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


Sample Description : DC TO DC CONVERTER
Style/Item No. : RPP20, RPP30, RPP40, RPP50 / FLATE CASE & HEATSINK CASE
Sample Receiving Date : 2009/08/28
Testing Period : 2009/08/28 TO 2009/09/03

=====
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)	129	11	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

TEST PART DESCRIPTION:

- NO.1 : MIXED GREEN PCB AND ALL COMPONENTS ON IT (TWO TYPES)
- NO.2 : SILVER COLORED METAL (EXCLUDING THE YELLOW PLASTIC FILM) (SIX TYPES)

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- 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.

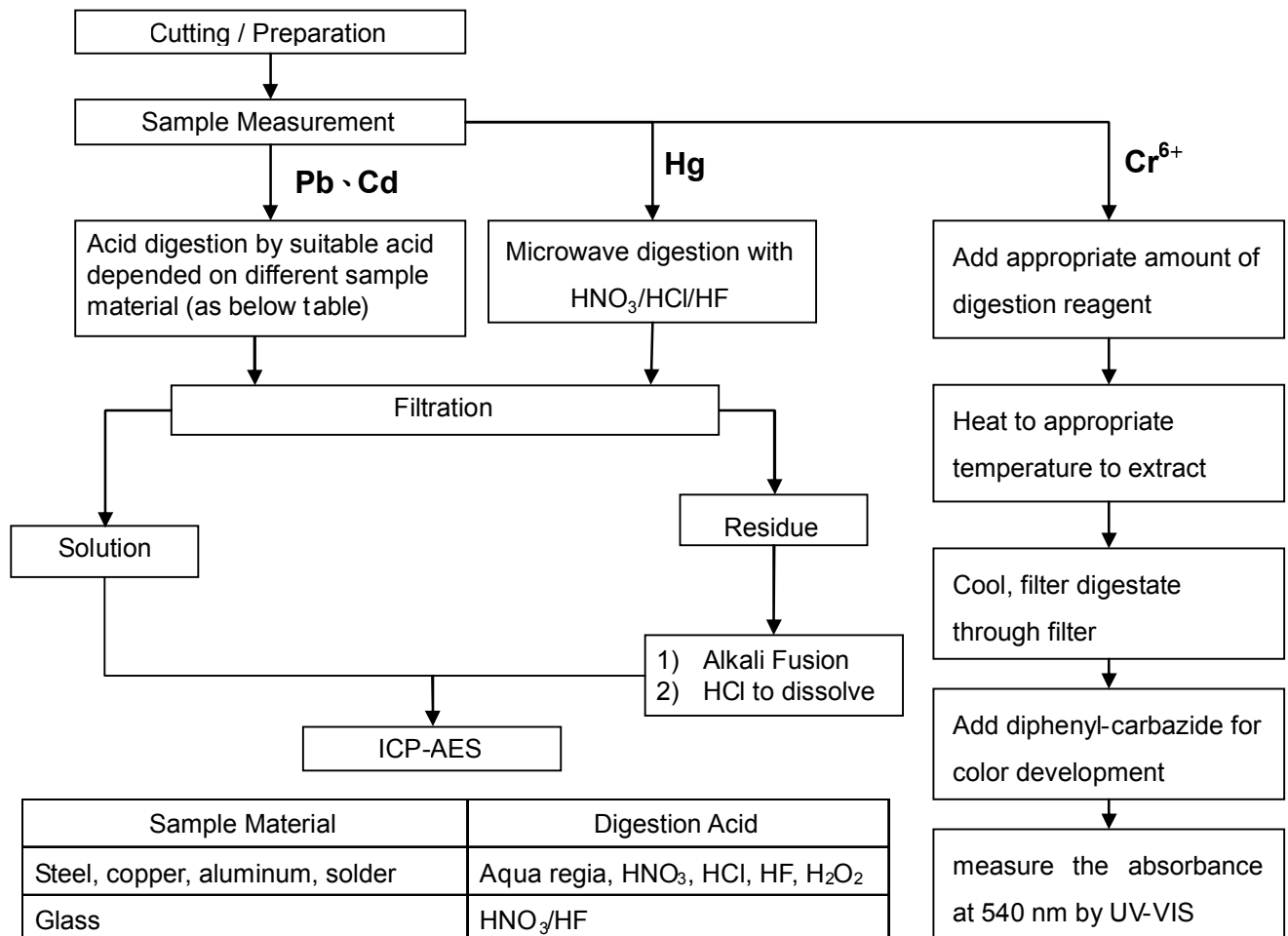
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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

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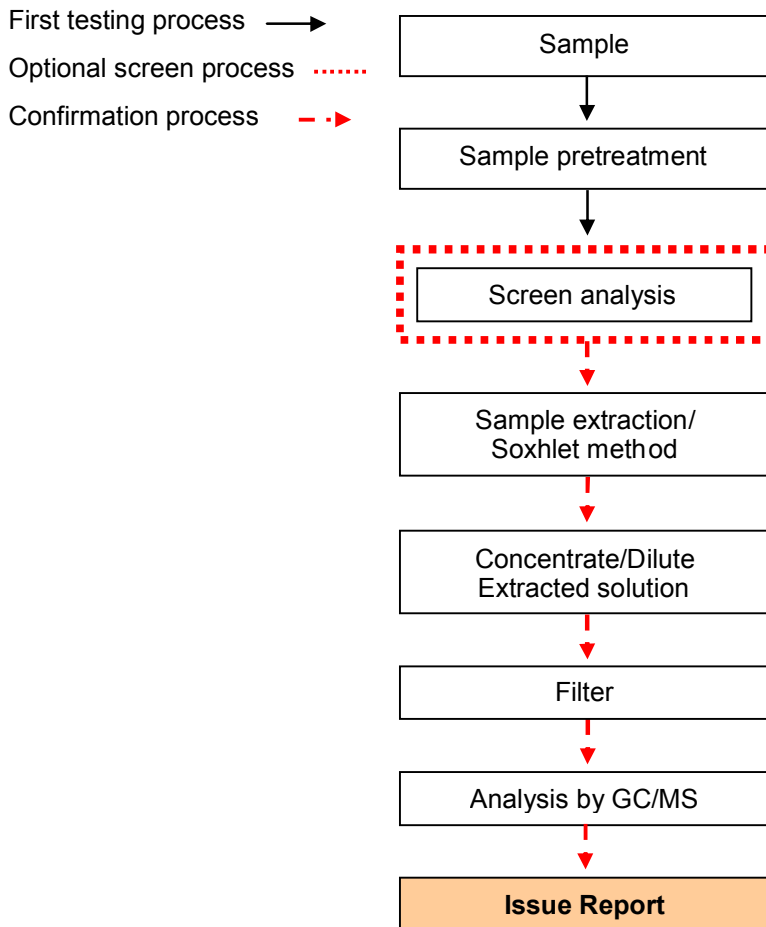
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PBB/PBDE analytical FLOW CHART

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

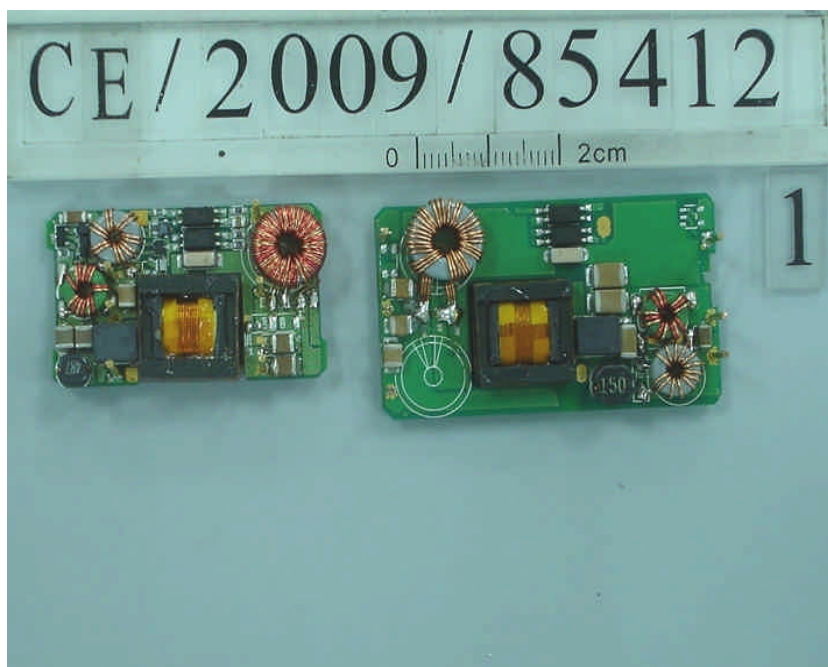
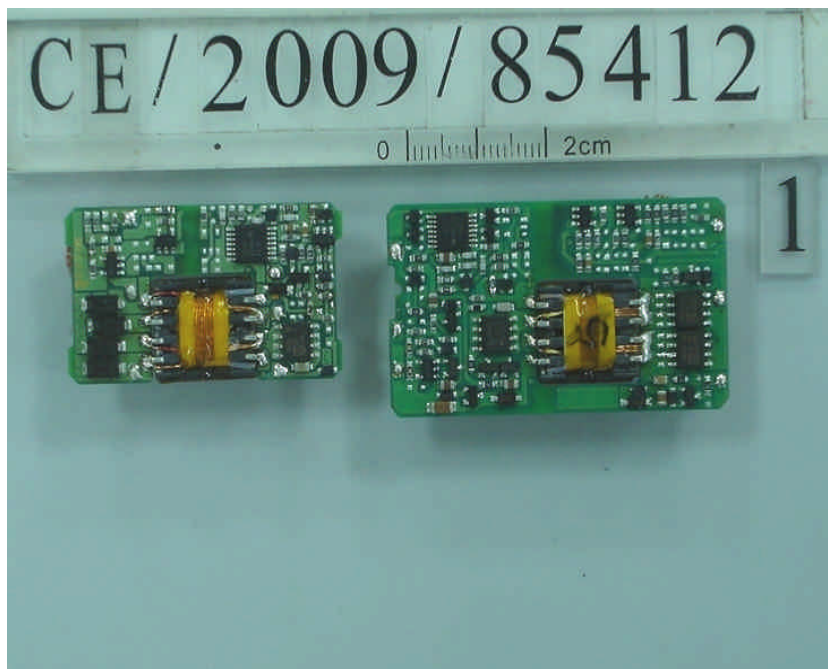


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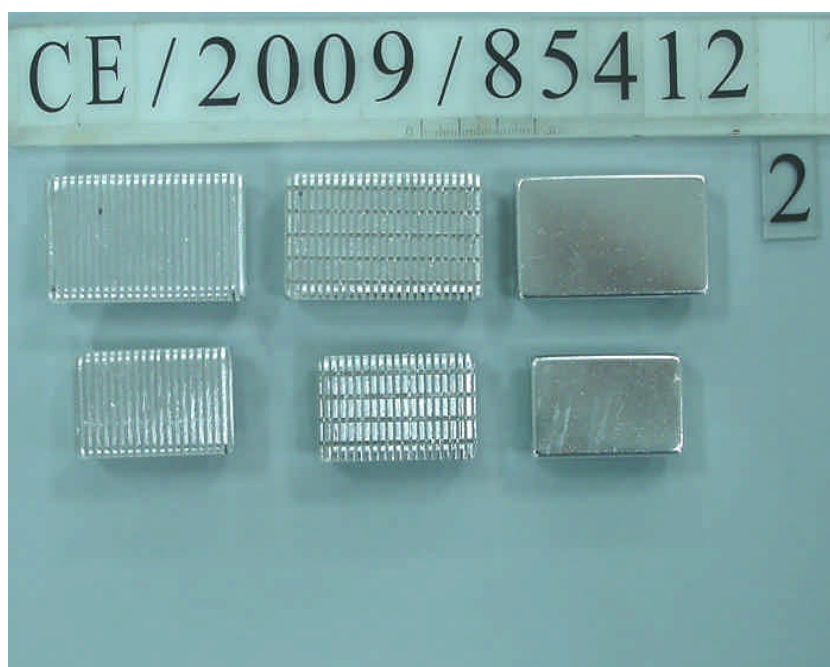


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