

**Test Report** No.: CE/2008/46561 Date: 2008/04/29 Page: 1 of 5

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN

#### 

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

Sample Description : T/F CRYSTAL UNITS (SMD PLASTIC PACKAGE)

Style/Item No. : CM200C
Buyer/Order No. : MYT08C2C
Sample Receiving Date : 2008/4/22

Testing Period : 2008/4/22 TO 2008/4/29

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

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 for non-metallic

samples by UV/Vis Spectrometry.

(5) 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 No.1	MDL
Lead (Pb)	(2)	13300	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline	(4)	n.d.	2
extraction			
Sum of PBBs	(5)	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 (Mono to Nona) (Note 4)		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
Sum of PBDEs (Mono to Deca)		n.d.	-

#### **TEST PART DESCRIPTION:**

NO.1 : MIXED ALL PARTS

Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. "-" = Not Regulated
- 6. 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.
- 7. The result from lead content of No. 1 is exempted according to the declaration from applicant in compliance with RoHS directive 2002/95/EC and its amendment directives for high melting point solder and lead in the glass.

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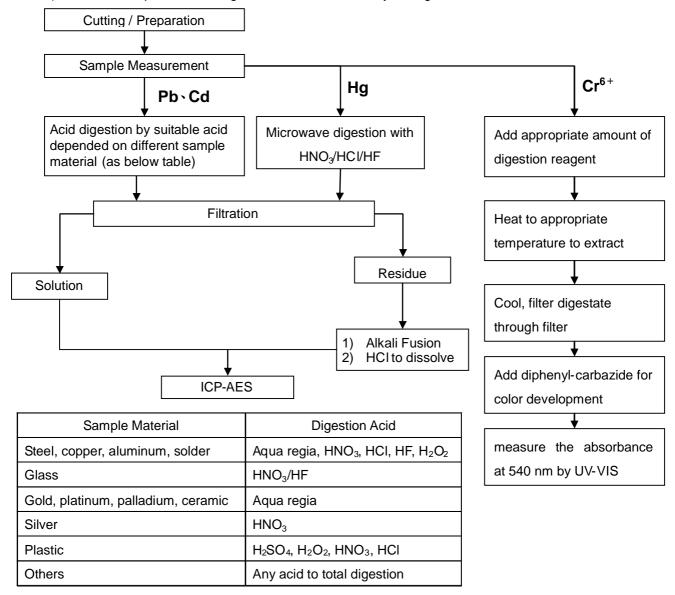
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. ( Cr<sup>6+</sup> test method excluded )
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



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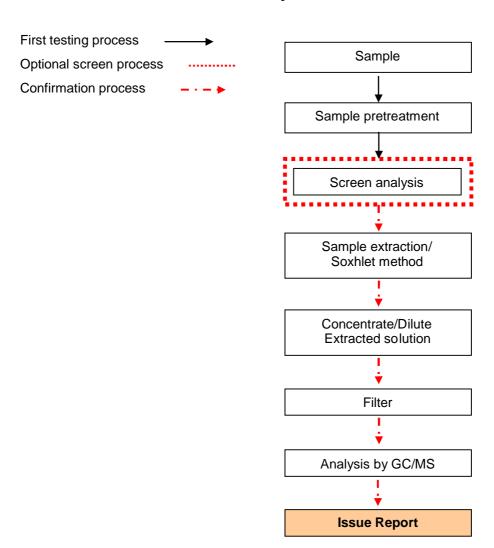
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### **PBB/PBDE** analytical FLOW CHART





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