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SIANG YE ELECTRONICS., LTD.

NO. 128, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY 24263, TAIWAN (R. O. C.)

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

Sample Submitted By Sample Description Style/Item No.		SIANG YE ELECTRONICS., LTD. FERRITE MATERIAL (Ni-Zn) B29、R1、SR300、S4A、B15、L3、B20、B2、A2、S6、R3、A14、A5、H7、A36、 A35、S9、S4B、R1500、S10、SR250、K15、K18、K2A、K25、K26、K28、K30、
Sample Receiving Date Testing Period	:	K35、K37、K38 2016/07/12 2016/07/12 TO 2016/07/18
=======================================	===:	

- **Test Requested**
- (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.
  - (2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.

Test Result(s)

: Please refer to next page(s).



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#### Test Result(s)

PART NAME No.1 : MIXED ALL PARTS

Toot Itom(a)	Unit	Method	MDL	Result
Test Item(s)	Unit			No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 (2013) and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)(#2)	µg/cm²	With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl	mg/kg	]	5	n.d.
Dibromobiphenyl	mg/kg	7	5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg	7	5	n.d.
Hexabromobiphenyl	mg/kg	7	5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg	7	5	n.d.
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6 (2015) and performed by GC/MS.	5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg	7	5	n.d.
Tribromodiphenyl ether	mg/kg	7	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	7	5	n.d.
Decabromodiphenyl ether	mg/kg	7	5	n.d.

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Test Item(s)	Unit	Method	MDL	Result
rest item(s)				No.1
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582 (2007). Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		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. (#2) =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI)
  - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination.
- 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.



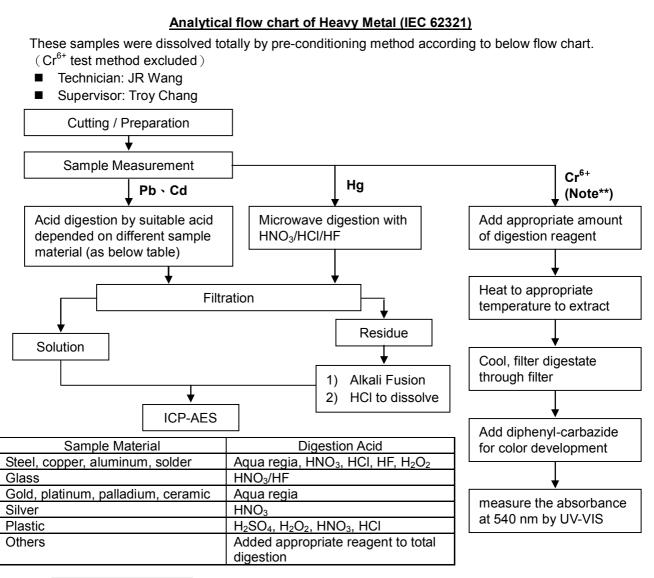
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#### Note\*\* (For IEC 62321)

- (1) For non-metallic material, add alkaline digestion reagent and heat to  $90~95^{\circ}$ C.
- (2) For metallic material, add pure water and heat to boiling.

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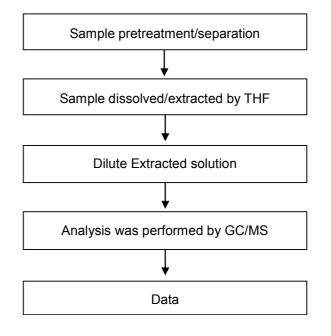
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#### **Analytical flow chart - Phthalate**

- Technician: Andy Shu
- Supervisor: Troy Chang

#### [Test method: IEC 62321-8]



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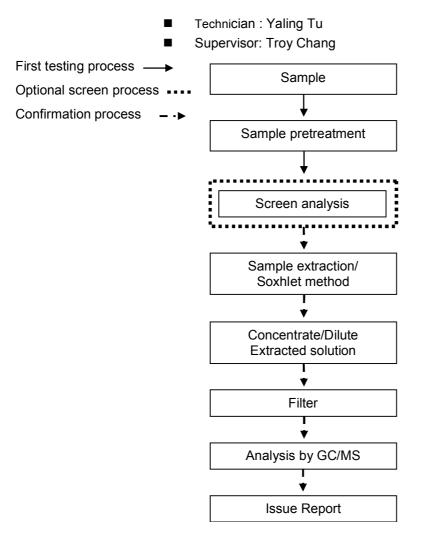
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### Analytical flow chart - PBB/PBDE



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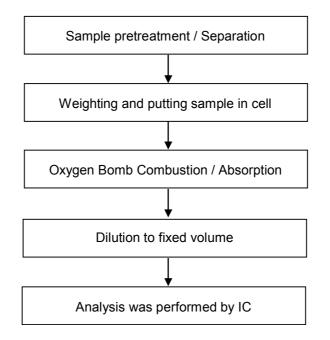
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#### Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang



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



\*\* End of Report \*\*

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