



Pony Testing International Group

## Test Report

No.: E06224007604D

Date: 2011.06.30

Page 1 of 6

Applicant:

JINAN HUIFENG ZHONGTIAN (HFZT) ELECTRONIC CO., LTD.

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

Sample Name: Glass Diodes

Sample Model: DO-35、DO-34、DO-41、LL34(MINI-MELF)、LL41(MELF)

Manufacturer: JINAN HUIFENG ZHONGTIAN (HFZT) ELECTRONIC CO., LTD.

Sample Received Date: 2011.06.22

Testing Period: 2011.06.22 To 2011.06.30

Test Method:

- (1) With reference to IEC62321 Edition 1.0:2008 method, Lead Analysis is performed by AAS
- (2) With reference to IEC62321 Edition 1.0:2008 method, Cadmium Analysis is performed by AAS
- (3) With reference to IEC62321 Edition 1.0:2008 method, Mercury Analysis is performed by AFS
- (4) With reference to IEC62321 Edition 1.0:2008 method, Hexavalent Chromium Analysis is performed by UV
- (5) With reference to IEC62321 Edition 1.0:2008 method, PBBs and PBDEs Analysis is performed by GC-MS
- (6) With reference to EN14582: 2007 method, F, Cl, Br, I Analysis is performed by IC
- (7) With reference to EPA3540C:1996, PFOS and PFOA Analysis is performed by LC-MS/MS

Testing Results:

Please refer to next page(s)

Approved by:

*Cui Shan*

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Page 2 of 6

Test Results (Unit: mg/kg)

Test Item	MDL	Test Result	RoHS Limit
Lead (Pb)	1	1.58×10 <sup>5*</sup>	1000
Cadmium (Cd)	1	N.D.	100
Mercury (Hg)	1	N.D.	1000
Hexavalent Chromium (Cr <sup>6+</sup> )	1	N.D.	1000
PBBs	—	—	1000
Bromobiphenyl	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.	—
PBDEs	—	—	1000
Bromodiphenyl 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.	—
F	50	N.D.	—
Cl	50	N.D.	—
Br	50	N.D.	—
I	50	N.D.	—
PFOS	0.1	N.D.	—
PFOA	0.1	N.D.	—

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Page 3 of 6

- Note:
- (1) mg/kg = ppm
  - (2) “—” = Does not stipulate
  - (3) N.D. = Not Detected (<MDL)
  - (4) MDL = Method Detection Limit
  - (5) The most [allowable limit value](#) reference to 2002/95/EC RoHS Directive & its [subsequent](#) amendment Directive 2005/618/EC
  - (6) \* According to customer's statement and 2002/95/EC RoHS Directive, Lead in the glass of cathode ray tubes, electronic components and LED can be exempted.

Photo:



Pony authenticate the photo on original report only

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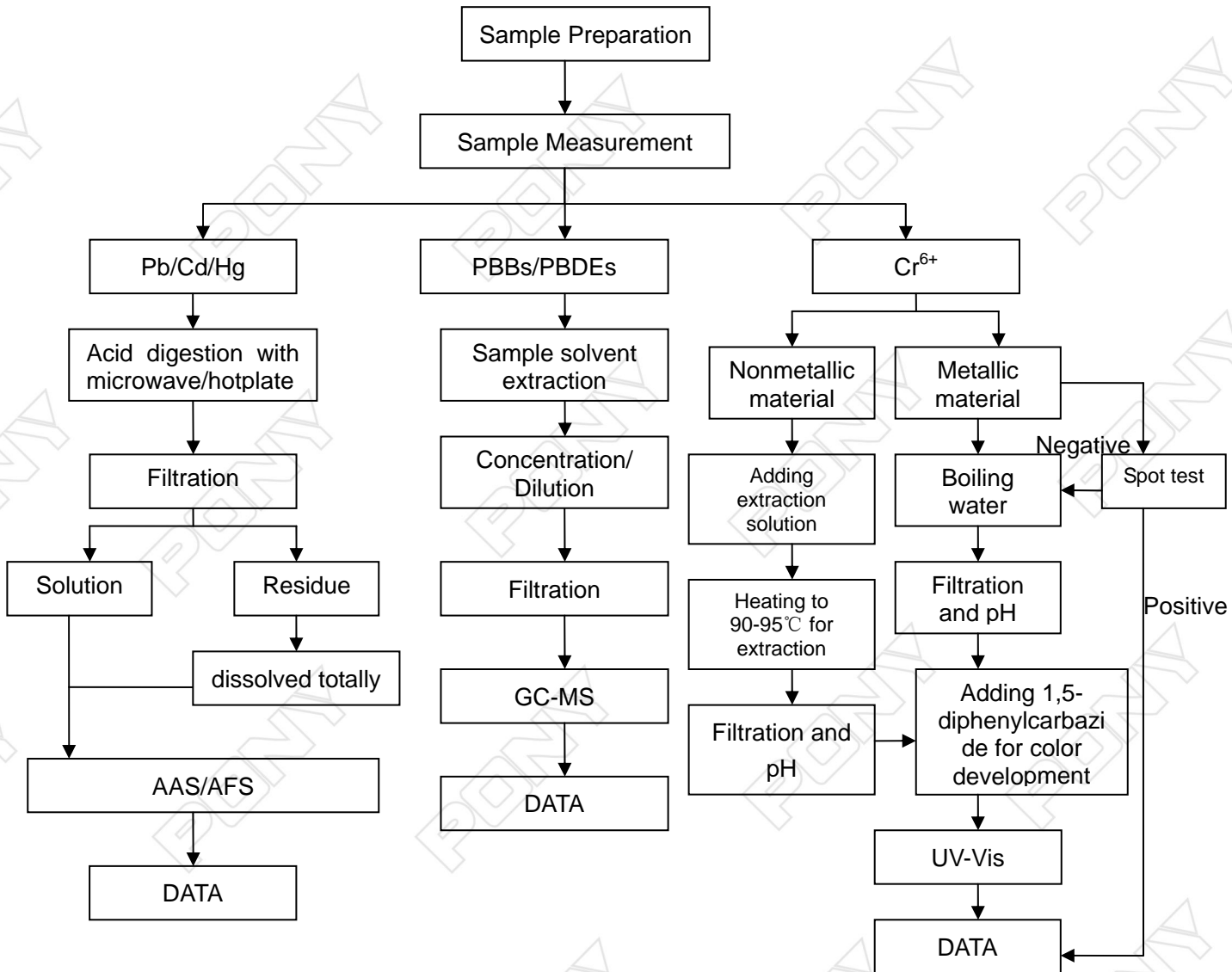
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Page 4 of 6

## Measurement Flow-chart

These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart. (Cr<sup>6+</sup> And PBBs/PBDEs Test Method Excluded)



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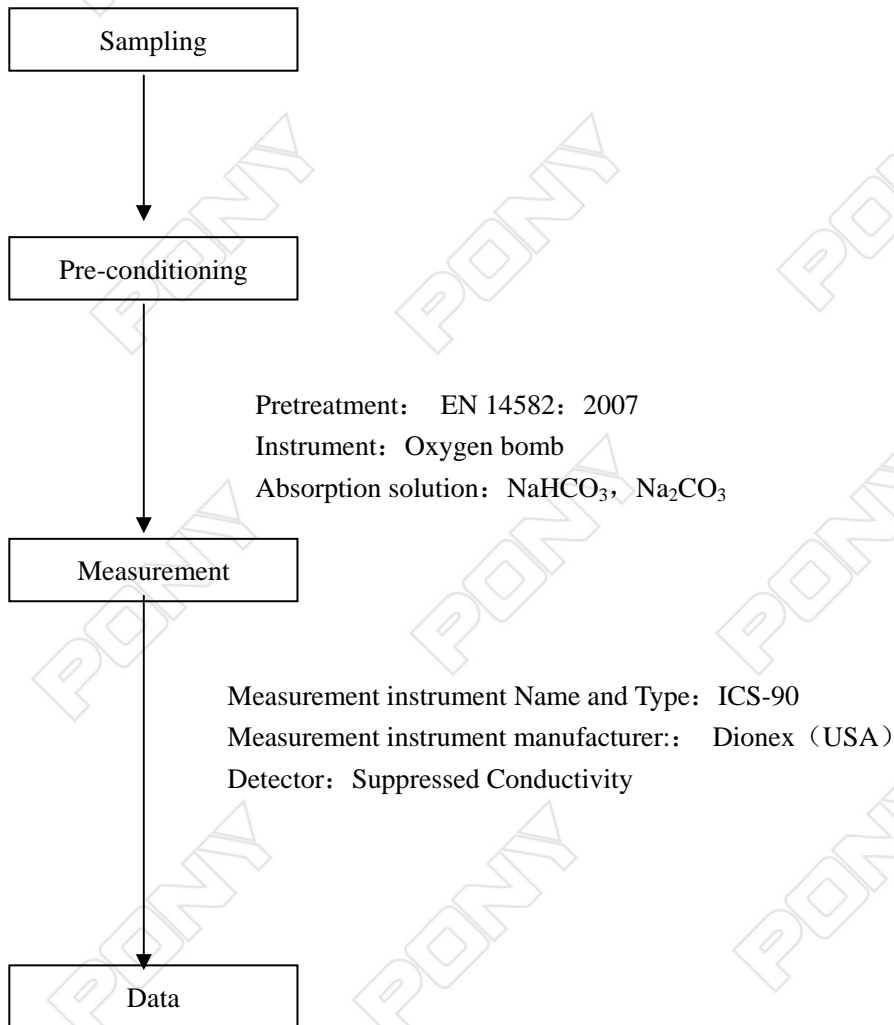
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### Halogen measurement flow-chart



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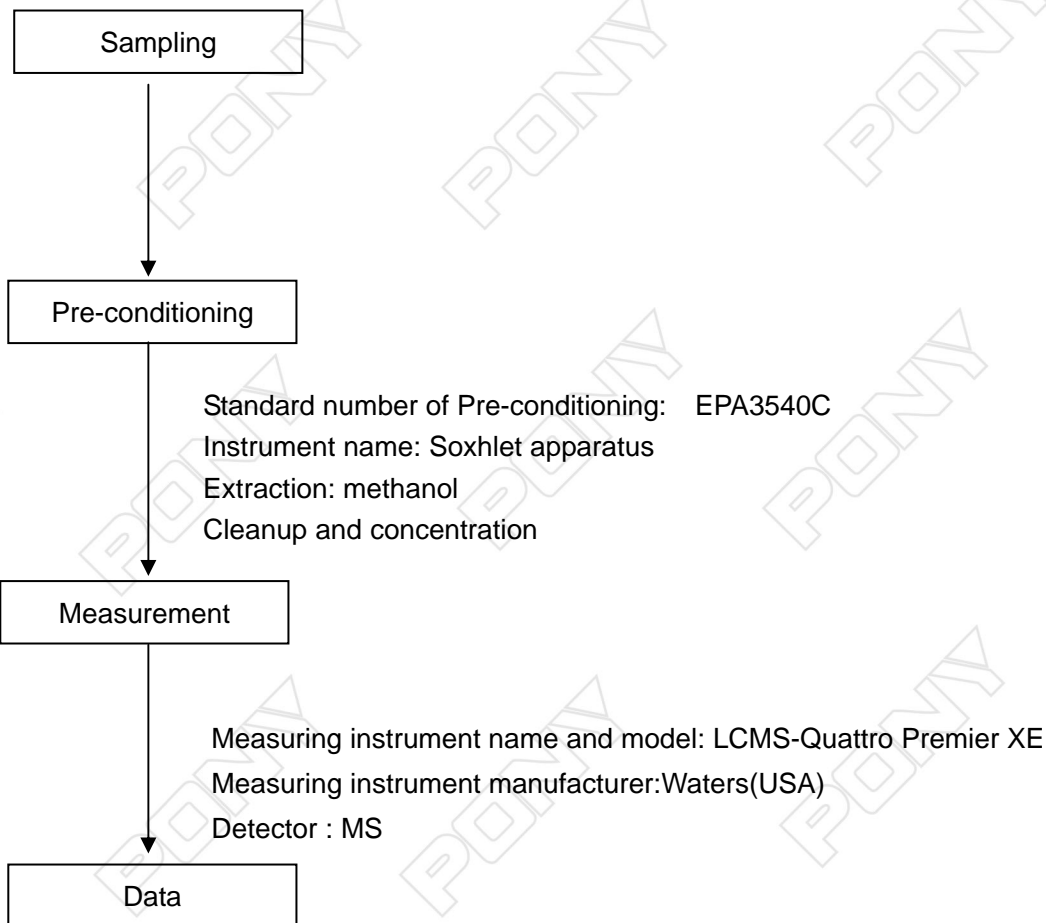
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### PFOS、PFOA Measurement Flow-chart



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