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NLIGHTNING TECHNOLOGY LTD.

8F-2, NO. 100, SEC. 1, JIAFENG 11TH RD., ZHUBEI CITY, HSINCHU COUNTY 302, TAIWAN

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

Sample Submitted By Sample Description Style/Item No. Sample Receiving Date Testing Period	::	NLIGHTNING TECHNOLOGY LTD. GAS DISCHARGE TUBE 4532/5050/2R/3R SERIES 2017/11/08 2017/11/08 TO 2017/11/15
Test Requested	:	<ol> <li>As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).</li> <li>As specified by client, to test PFOA, PFOS, Halogen-Fluorine, Chlorine, Bromine, lodine contents in the submitted sample.</li> </ol>
Test Result(s)	:	Please refer to following pages.



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### Test Result(s)

PART NAME No.1 : MIXED ALL PARTS

	Unit	Method	MDL	Result
Test Item(s)	Unit			No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5	2	n.d.
Lead (Pb)	mg/kg	(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) (◆)	mg/kg	With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6	5	n.d.
Sum of PBDEs	mg/kg	(2015) and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		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	1	5	n.d.
Decabromodiphenyl ether	mg/kg	1	5	n.d.

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	Unit	Method	MDL	Result
Test Item(s)				No.1
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	With reference to IEC 62321-8 (2017). 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 (2016). 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.
Perfluorooctane sulfonates (PFOS- Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C (2007). Analysis was performed by	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	LC/MS.	10	n.d.

### Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. (♠) : The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required. If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.
- 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.

### PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above  $1\mu g/m^2$ .



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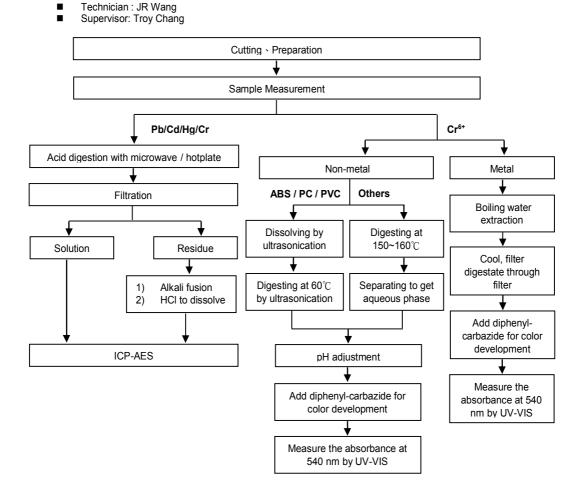
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### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)



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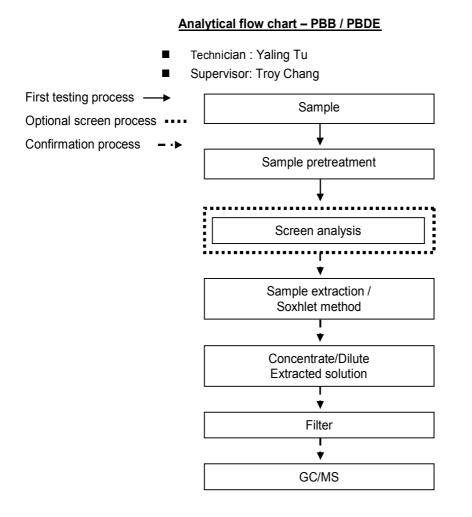
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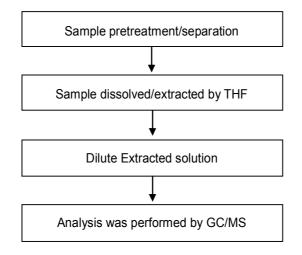
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### Analytical flow chart - Phthalate

- Technician: Andy Hsu
- Supervisor: Troy Chang

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



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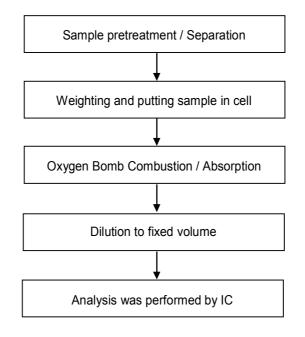
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### Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang



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# Analytical flow chart - PFOA/PFOS Technician: Yaling Tu Supervisor: Troy Chang Sample pretreatment Sample extraction by Ultrasonic extraction (Reference method: US EPA 3550C) Concentrate/Dilute Extracted solution Analysis was performed by LC/MS Data

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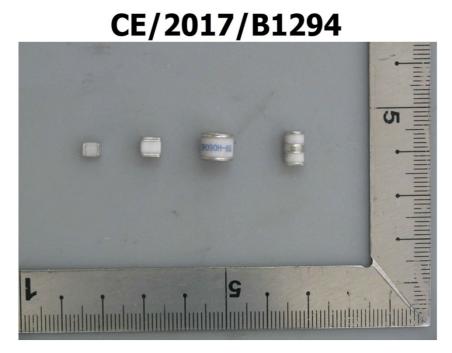
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*



\*\* End of Report \*\*

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