



(No.): ETR24505680

(Date): 14-Jun-2024

(Page): 1 of 24

Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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

BASIC INFORMATION	
Type of Product	LAMP LED
Supplier Company Name	EVERLIGHT
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
Tel / Fax / Email	TEL:886-2685-6688
	FAX:886-2685-6699
	E-MAIL: lindawang@everlight.com
Contact Person	LI LING WANG
EVERLIGHT REPORT NO	LAMP LED SERIES LAMP / IR / HIR / PT / 2PT / PD PTD SERIES Sampling Product:334-15/F1C1-2WZA-SGS-14-Jun-2024
PRODUCT INFORMATION	
Product/component Sample description	LIGHT-ELECTRICITY TRANSFER
Quantity (numbers or weight)	0.2725 g
EVERLIGHT P/N	LAMP LED SERIES LAMP / IR / HIR / PT / 2PT / PD PTD SERIES Sampling Product:334-15/F1C1-2WZA
Product Lot No	SZ24052819-010315
Country of Origin	CHINA
TEST INFORMATION	
Sample preparation	CUTTING
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582
MDL	Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg

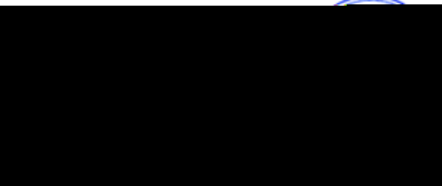
(Sample Submitted By) : (EVERLIGHT ELECTRONICS CO., LTD.)

=====

(Sample Receiving Date) : 31-May-2024

(Testing Period) : 31-May-2024 to 14-Jun-2024

(Test Results) : (Please refer to following pages).



PIN CODE: 1FD79FA6

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Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Test Items)	(Method)	(Unit)	MDL		(Result)			(Limit)
					No.1	No.2	No.3	
(Monobromobiphenyl)	IEC 62321-4: 2013+ AMD1: 2017	mg/kg	2		n.d.	---	---	1000
	(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)							
	IEC 62321-7-2: 2017	mg/kg	8		n.d.	---	---	1000
	(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)							
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
(Pentabromobiphenyl)	IEC 62321-6: 2015	mg/kg	5		n.d.	---	---	-
	/	mg/kg	5		n.d.	---	---	-
	(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	-		n.d.	---	---	1000
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
(Tribromodiphenyl ether)		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
(Hep tabromodiphenyl ether)		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	5		n.d.	---	---	-
		mg/kg	-		n.d.	---	---	1000

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(EVERLIGHT ELECTRONICS CO., LTD.)
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(Test Items)	(Method)	(Unit)	MDL		(Result)			(Limit)
					No.1	No.2	No.3	
(BBP) (Butyl benzyl phthalate (BBP))		mg/kg	50	n.d.	---	---	---	1000
		mg/kg	50	n.d.	---	---	---	1000
(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	---	---	---	1000
		mg/kg	50	n.d.	---	---	---	1000
(Diisodecyl phthalate (DIDP)) (CAS No.: 14751-34-3)		mg/kg	50	n.d.	---	---	---	-
		mg/kg	50	n.d.	---	---	---	-
	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---	---	---	-
		mg/kg	50	n.d.	---	---	---	-
		mg/kg	50	n.d.	---	---	---	-
		mg/kg	50	n.d.	---	---	---	-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.	---	---	---	-
(Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)		mg/kg	50	n.d.	---	---	---	-

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(Method)	(Unit)	MDL						(Limit)
		No.1	No.2	No.3				
IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---	---	---	-	
IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	---	---	---	-	

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(Method)	(Unit)	MDL			(Limit)
		No.1	No.2	No.3	
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	-
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	100
(Pb) (Lead (Pb))	IEC 62321-4: 2013+ AMD1: 2017 (IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	44.1	---	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	1000
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	100
(Pb) (Lead (Pb))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	1000

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PAHs Remark

(A fPS): GS PAHs

AfPS (German commission for Product Safety): GS PAHs requirements

(Parameter)	1 (Category 1)	2 (Category 2)		3 (Category 3)	
	(30) 2009/48/EC 3 (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds))	1 30 () (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin)		1 2 30 (Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (30 seconds))	
		a. 14 (Use by children under 14)	b. (Other consumer products)	a. 14 (Use by children under 14)	b. (Other consumer products)
Naphthalene	< 1	< 2		< 10	
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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PFAS Remark

PFAS PFAS PFAS PFAS
(PFAS PFAS)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	(PFOS-NH ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	(PFOS-NH(OH) ₂) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	(PFOS-N(C ₂ H ₅) ₄) Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
	(PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8

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(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(PFOS-N(C ₄ H ₉) ₄) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6
PFOA, & (PFOA, its salts & derivatives)	(Perfluorooctanoic acid) (PFOA)	335-67-1
	(PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	(PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	(PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	(PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	(APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	(PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	(PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	(PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	(PFOA-Cr(3+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Group Name)	(Substance Name)	CAS No.
PFOA, &	- (2:1) PFOA-NH(C ₄ H ₁₀ N) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9

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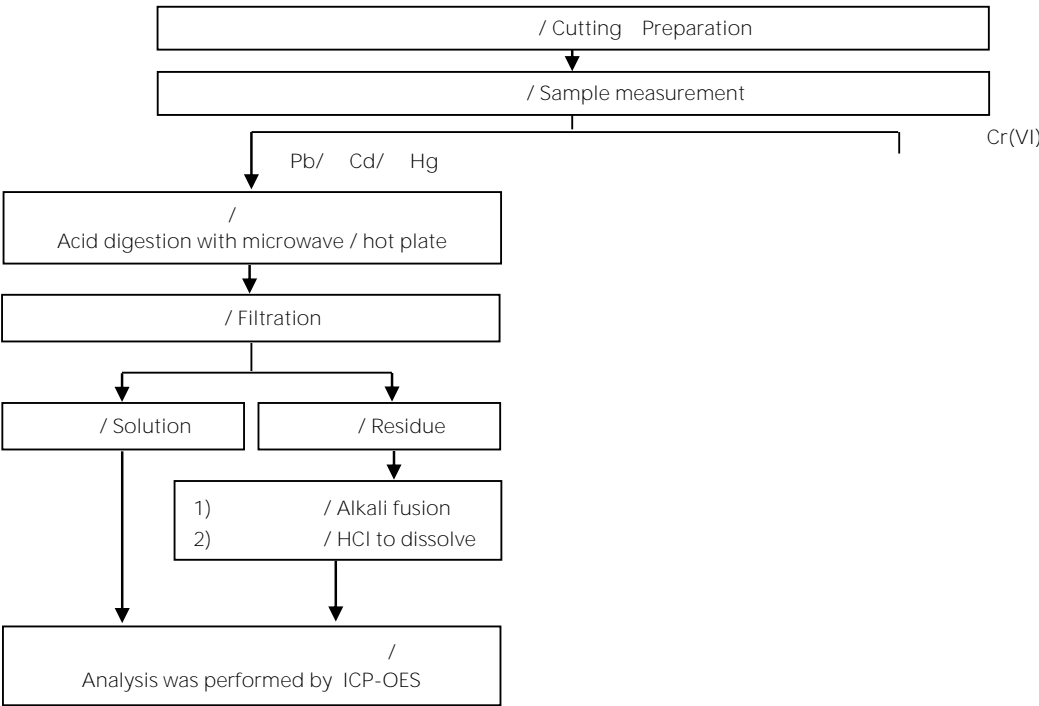
Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ 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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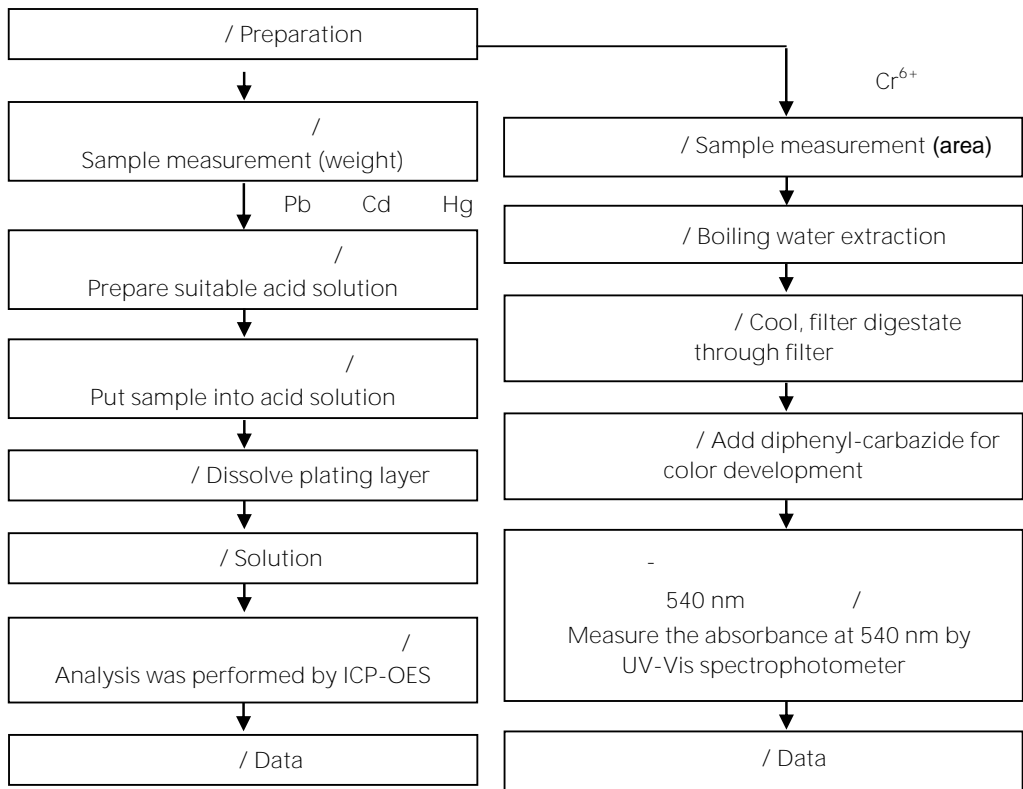
(EVERLIGHT ELECTRONICS CO., LTD.)
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart.

Cr⁶⁺ test method excluded



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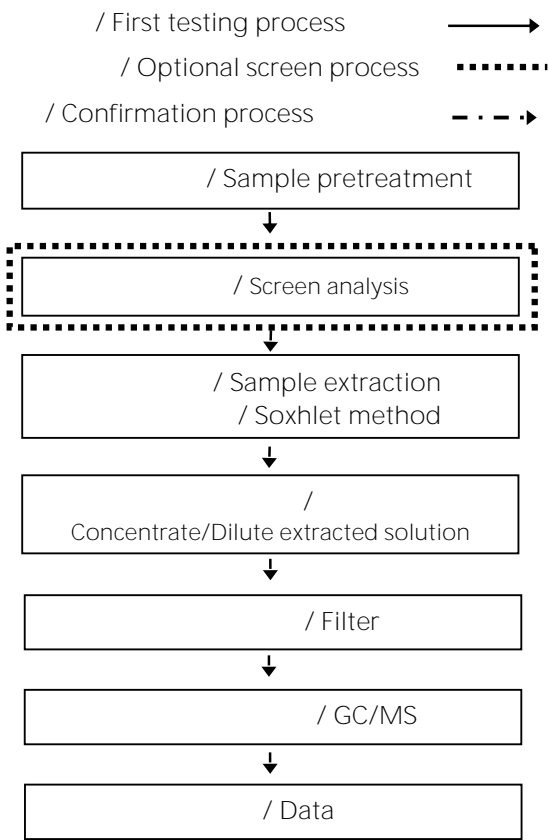
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/ Analytical flow chart - PBBs/PBDEs



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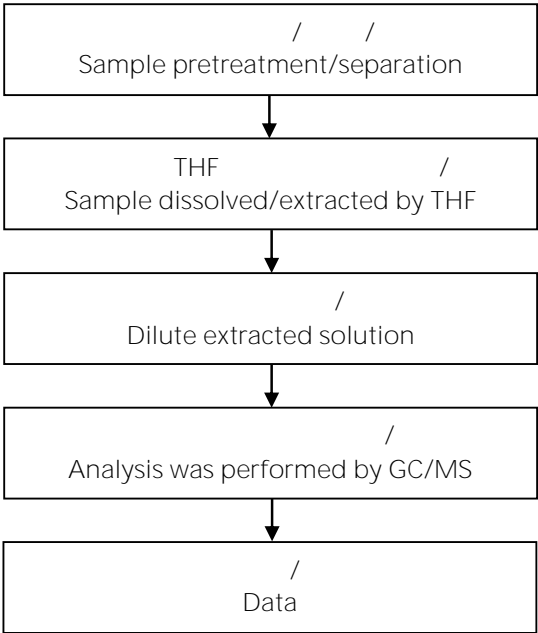


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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



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/ Analytical flow chart -

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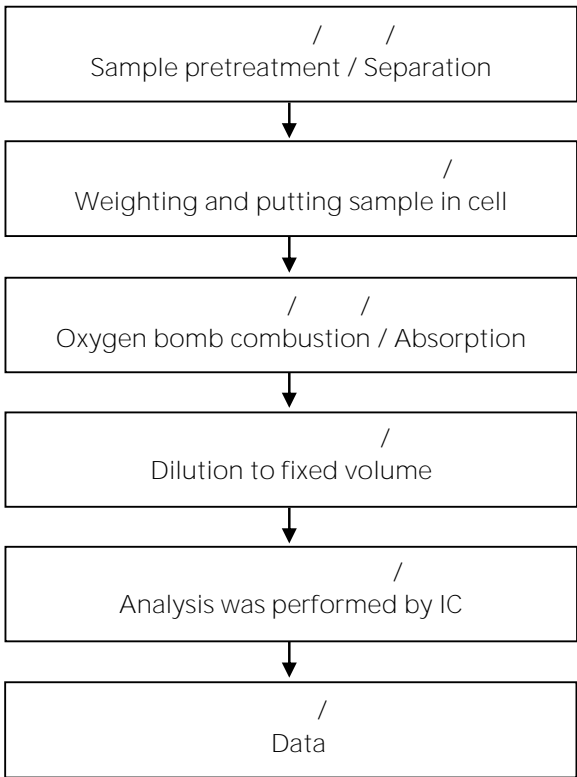
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/ Analytical flow chart - Halogen



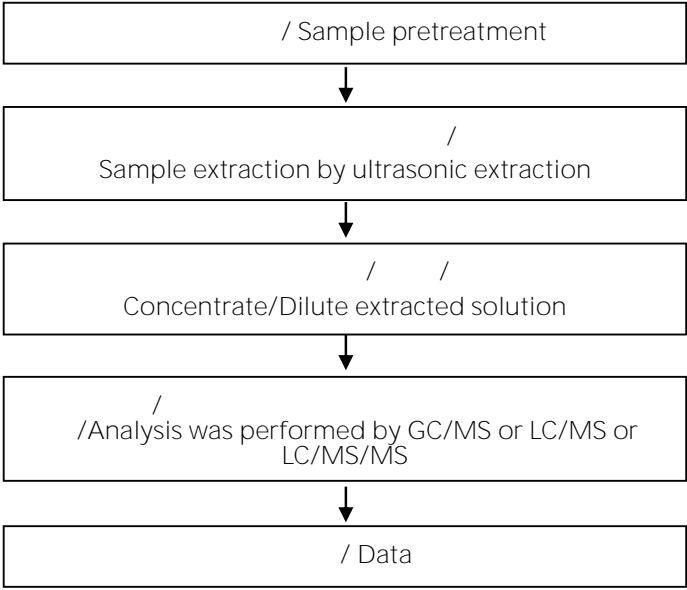
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(/ /) / Analytical flow
chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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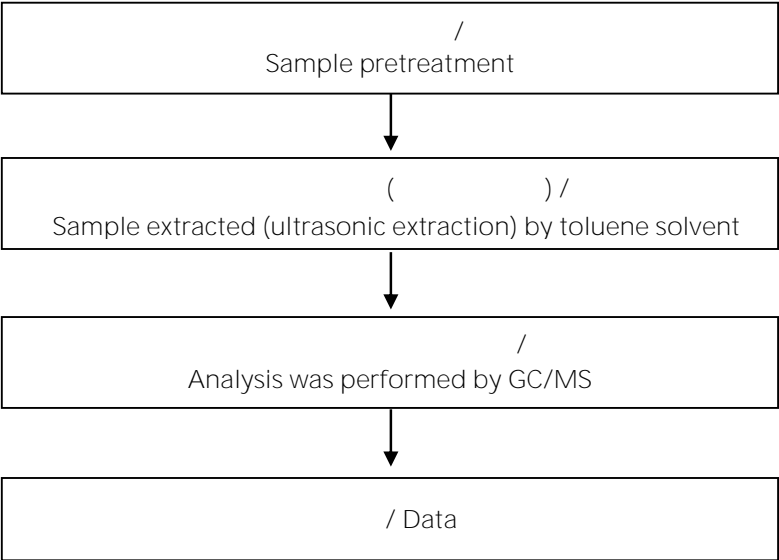
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/

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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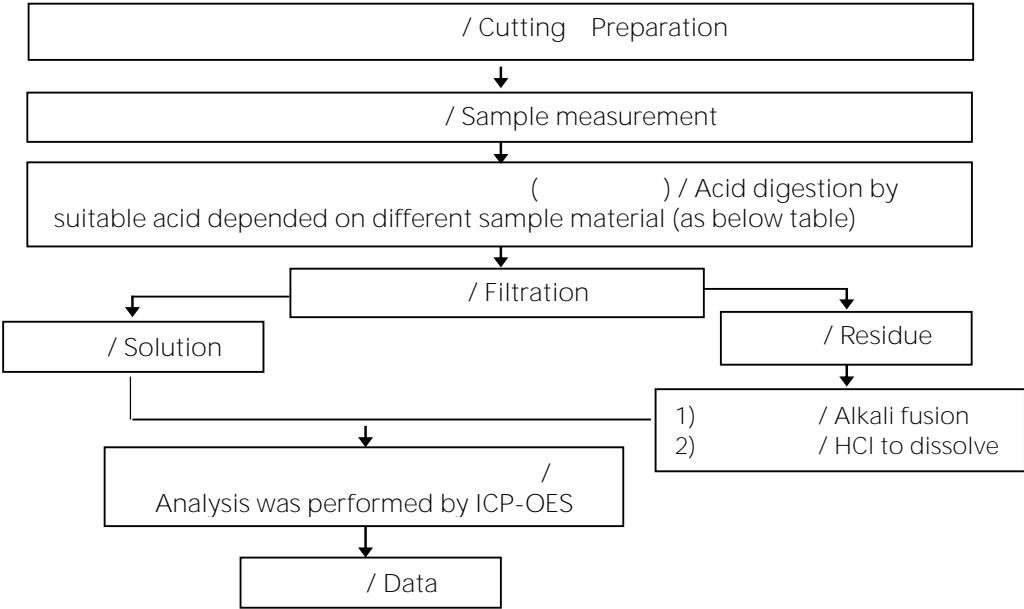
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

ICP-OES

(Flow chart of digestion for the elements analysis performed by ICP-OES)

/ These samples were dissolved totally by pre-conditioning method according to below flow chart.



/ 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	/ Added appropriate reagent to total digestion

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* / *

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

ETR24505680 NO.1



ETR24505680 NO.2



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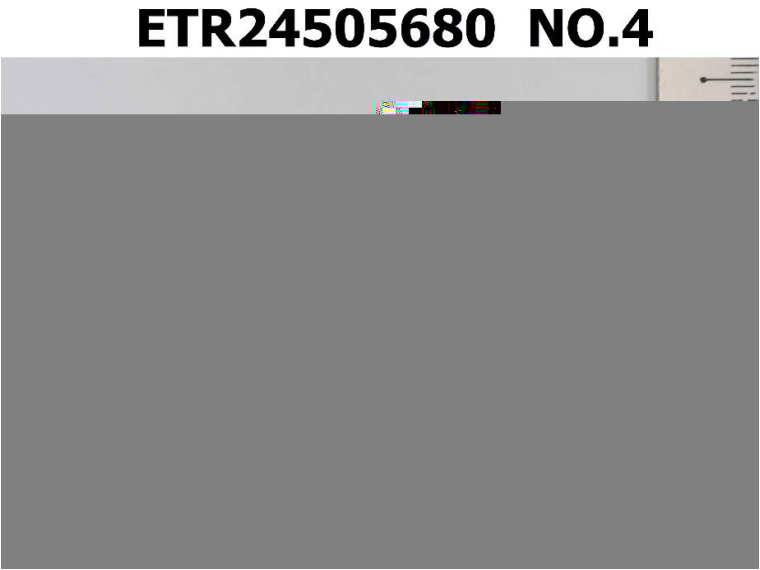
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** (End of Report) **

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