

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	SMD C TYPE
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	SMD C TYPE 57 SERIES Sampling Product: 57-11-C70500H-JL9IL0DADB2737-BT-AM-SGS-12-Apr-2024
PRODUCT INFORMATION	
Product/component Sample description	Dashboard / Door Lamp
Quantity (numbers or weight)	0.0865 g
EVERLIGHT P/N	SMD C TYPE 57 SERIES Sampling Product: 57-11-C70500H-JL9IL0DADB2737-BT-AM
Product Lot No	T240212L04F969R
Country of Origin	TAIWAN
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) : 28-Mar-2024
 (Testing Period) : 28-Mar-2024 to 12-Apr-2024

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



PIN CODE: 28EE09EF



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: (1)

(2)

: (1)

(2)

- No.1 :
- No.2 :
- No.3 :
- No.4 :

(Method)	(Unit)	MDL			(Limit)
		No.1	No.2	No.3	
	mg/kg	2	n.d.	---	100
	mg/kg	2	6.67		

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(Test Items)	(Method)	(Unit)	MDL			(Limit)	
			No.1	No.2	No.3		
	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
	IEC 62321-7-2: 2017 (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	---	---	1000
(Monobromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Dibromobiphenyl)		mg/kg	5	n.d.	---	---	-
		mg/kg	5	n.d.	---	---	-
		mg/kg	5	n.d.	---	---	-
(Pentabromobiphenyl)		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.	---	---	-
	IEC 62321-6: 2015	mg/kg	5	n.d.	---	---	-
	/ (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	-	n.d.	---	---	1000
(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.	---	---	-
		mg/kg	5	n.d.	---	---	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
		mg/kg	5	n.d.	---	---	-
		mg/kg	-	n.d.	---	---	1000



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(Method)	(Unit)	MDL			(Limit)	
		No.1	No.2	No.3		
	mg/kg	50	n.d.	---	---	1000
	mg/kg	50	n.d.	---	---	1000
	mg/kg	50	n.d.	---	---	1000
	mg/kg	50	n.d.	---	---	1000
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-
	mg/kg	50	n.d.	---	---	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Polycyclic Aromatic Hydrocarbons) (PAHs)							
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK / (With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	---	---	
(e) (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	---	---	
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	---	---	
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	---	---	
(j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	---	---	
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	---	---	
(Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	---	---	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	---	---	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	---	---	
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	---	---	
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	---	---	
(Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	---	---	
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	---	---	
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	---	---	
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	---	---	
15 (Sum of 15 PAHs)		mg/kg	-	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 62321-5: 2013 (IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	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 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	---	---	10.1	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

(AFPS): GS PAHs

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

	1 (Category 1)	2 (Category 2)	3 (Category 3)
(Parameter)	(30) 2009/48/EC 3 (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for		

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PFAS Remark

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-dimethyldecyl-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)	(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-heptafluorooctanesulfonate	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 perfluorooctanoate (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

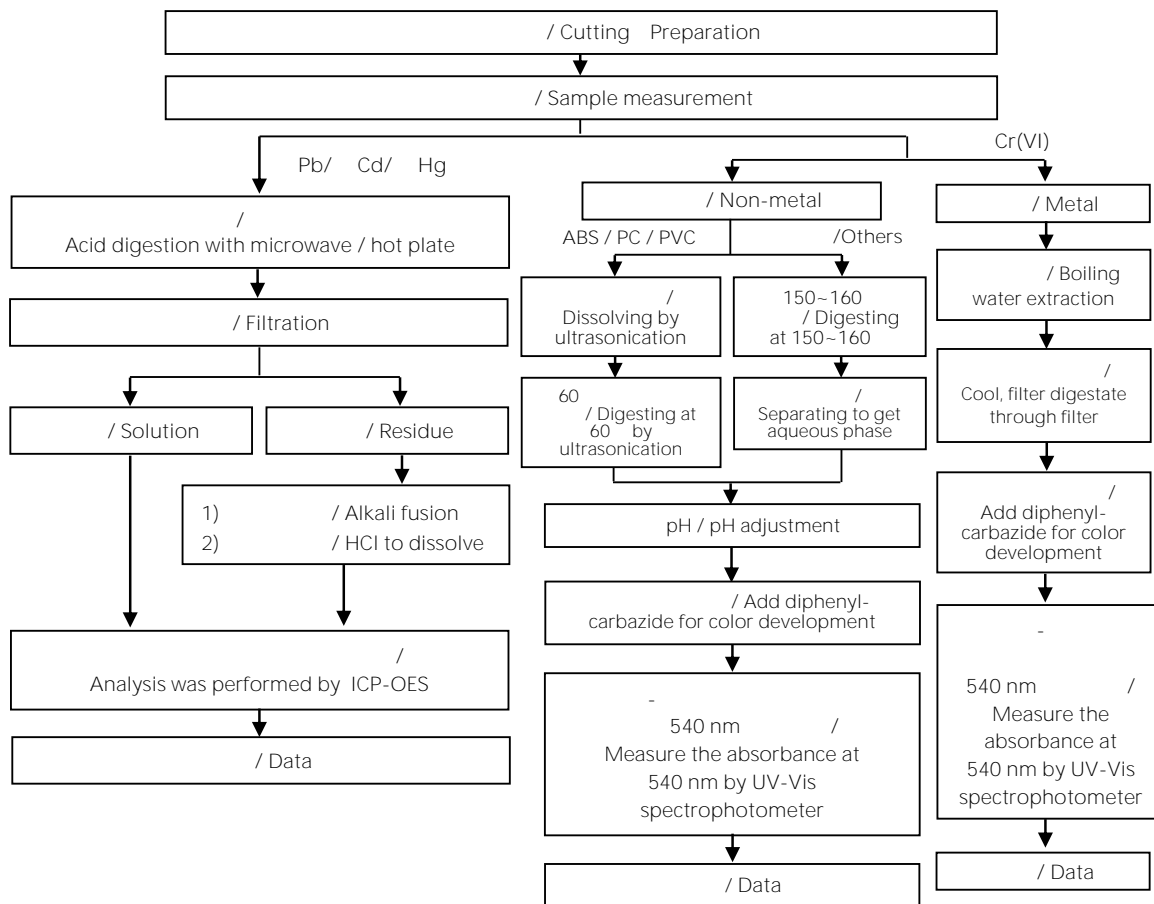
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/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded

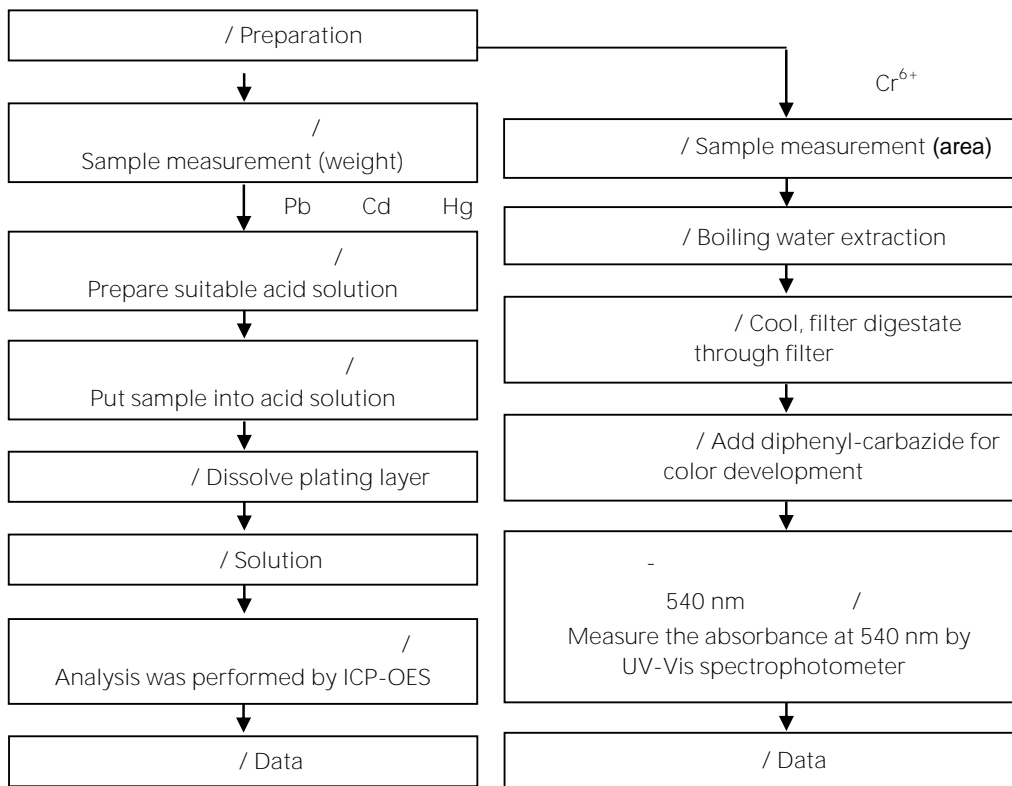


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/ Flow chart of stripping method for metal analysis

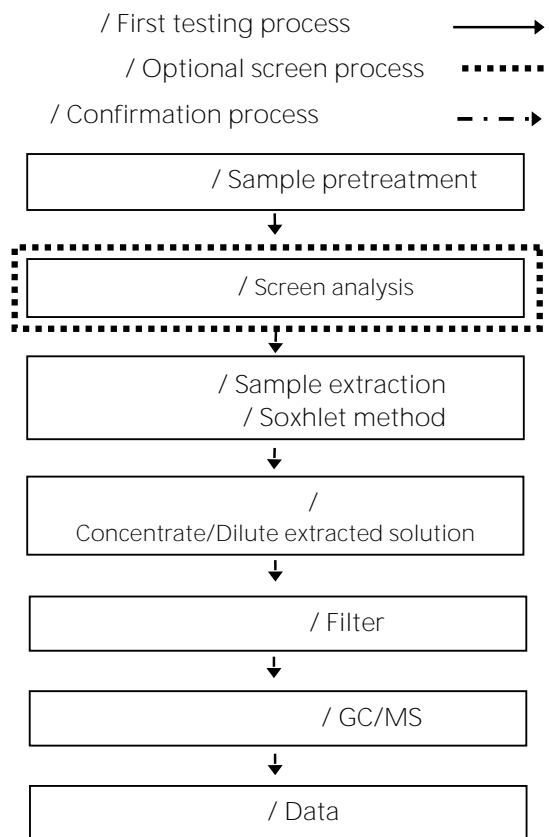
/ The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart.
 Cr⁶⁺ test method excluded



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/ Analytical flow chart - PBBs/PBDEs

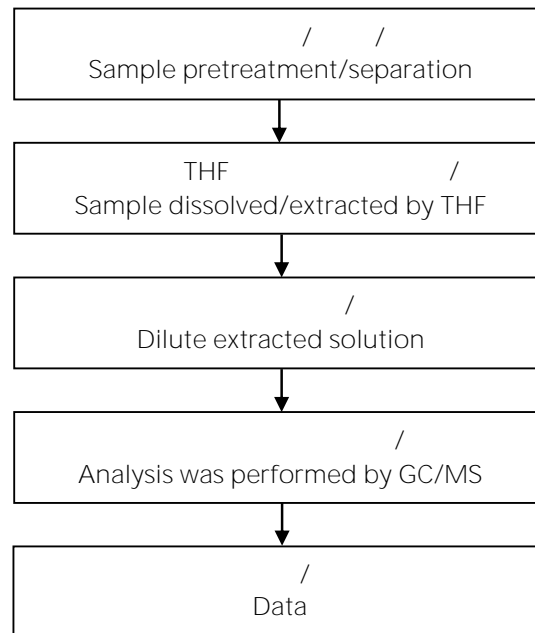


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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





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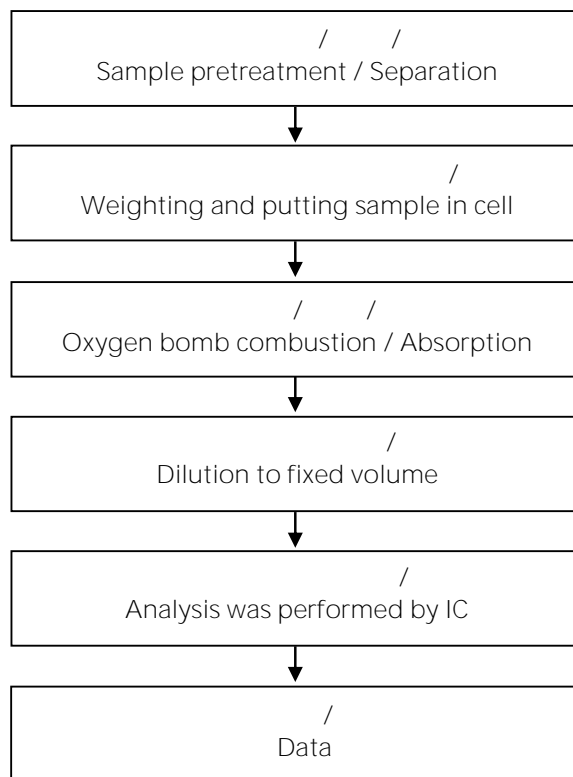
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/ Analytical flow chart

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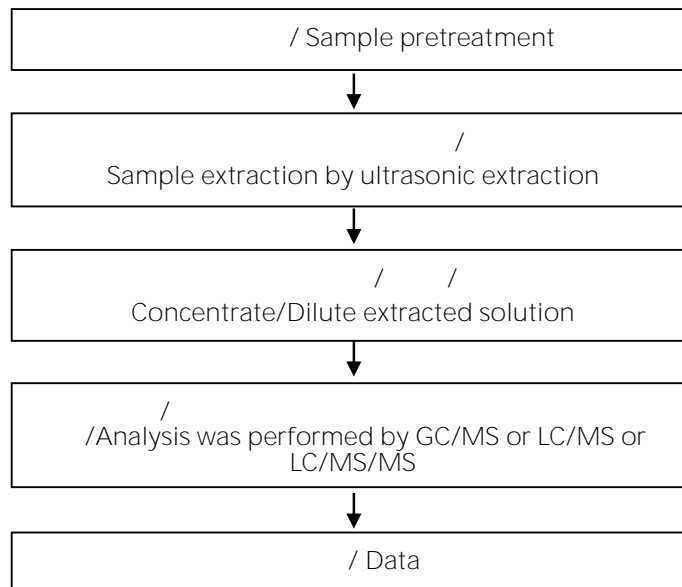
/ Analytical flow chart - Halogen



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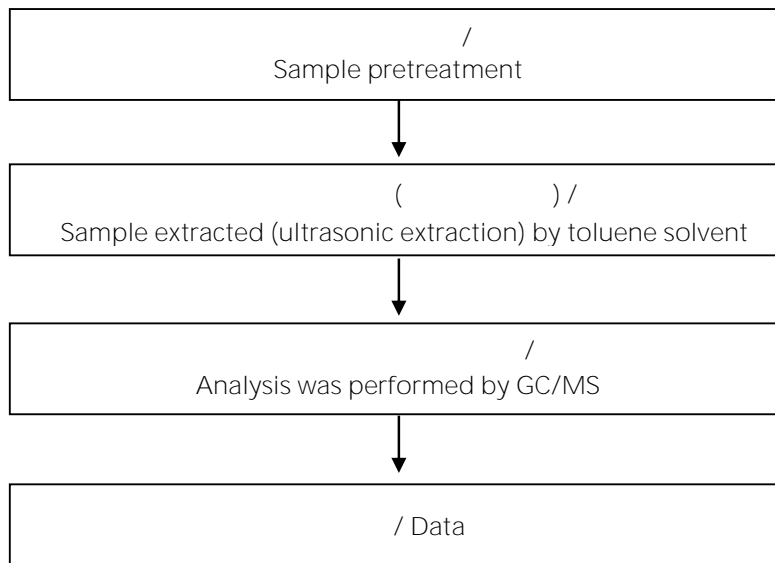
(/ /) / Analytical flow
chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



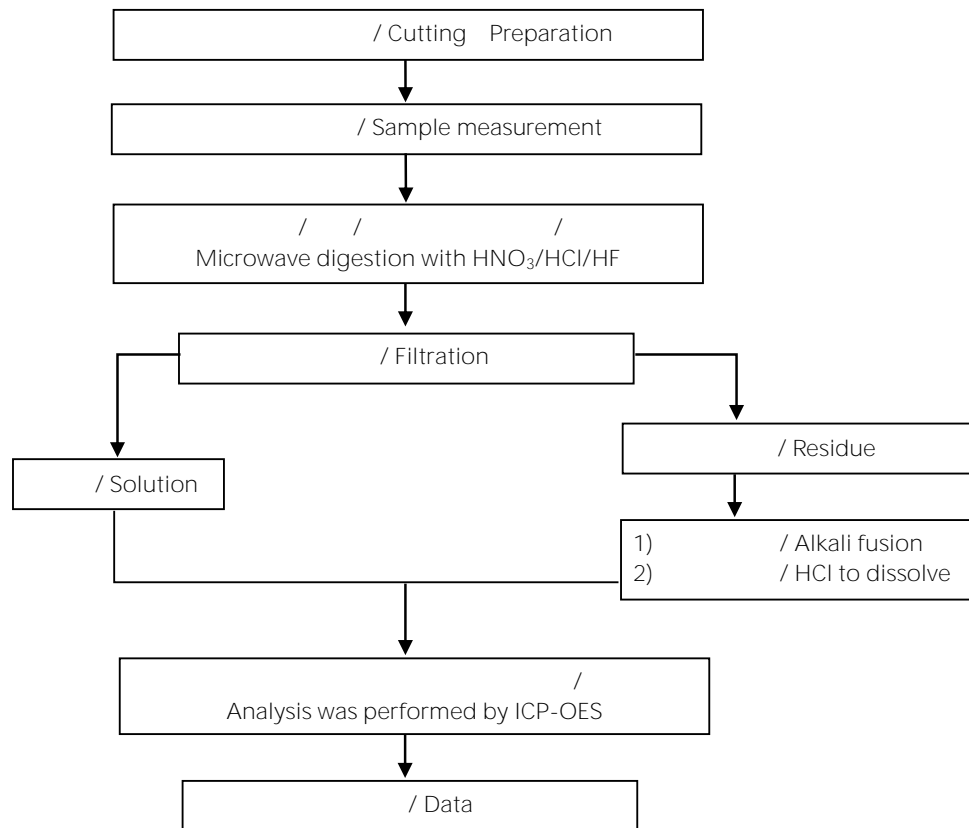
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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



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ICP-OES

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

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* / *

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

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** (End of Report) **