

Test Report

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

(H\Y Zc`ck]b[gUa d`Y(g) k Ug/k YfY gi Va]hYX UbX]XYbh]Z]YX Vmh\Y

Udd`]W]bhUg)

BASIC INFORMATION	
Type of Product	HIGH POWER
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	HIGH POWER LED XI3030 CW SERIES Sampling Product : XI3030-C03501H-56B60CJ4J62535-2T-AM-SGS-12-Jul-2024
PRODUCT INFORMATION	
Product/component Sample description	LIGHTING
Quantity (numbers or weight)	0.0178 g
EVERLIGHT P/N	HIGH POWER LED XI3030 CW SERIES Sampling Product : XI3030-C03501H-56B60CJ4J62535-2T-AM
Product Lot No	T240615A0902GP3WO
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) : 03-Jul-2024
 (Testing Period) : 03-Jul-2024 to 12-Jul-2024

(HYghFYgi `hg) : (Please refer to following pages).



PIN CODE: 94537E4B

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- (HYghFYei YghYX) : (1) RoHS 2011/65/EU Annex II (EU) 2015/863
, DBP, BBP, DEHP, DIBP (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(s).)
- (2) PAHs (As specified by client, to test PAHs and other item(s).)
- (CcbWi glcb) : (1) , DBP, BBP, DEHP, DIBP RoHS 2011/65/EU Annex II (EU) 2015/863 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)
- (2) (AfPS) GS PAHs 3 (Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) Other consumer products as set by German Committee on Product Safety (AfPS) GS PAHs.)

(HYghPUfhDYgW]dh]cb)

No.1 : HIGH POWER

(HYghFYgi `hg)

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(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	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(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
Cr(VI) (Hexavalent Chromium Cr(VI))	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)	IEC 62321-6: 2015 / (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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	5	n.d.	-
(Gi a cZPBBg)		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.	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
(Decabromodiphenyl ether)	mg/kg	5	n.d.	-	
(Gi a cZPBDEg)	mg/kg	-	n.d.	1000	

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(Method)	(Unit)	MDL	No.1	(Limit)
	mg/kg	50	n.d.	1000
(DBP) (Dibutyl phthalate (DBP))	mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP) (DEHP)	mg/kg	50	n.d.	1000
	mg/kg	50	n.d.	1000
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	mg/kg	50	n.d.	-
(DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	mg/kg	50	n.d.	-
(DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)	mg/kg	50	n.d.	-
(DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	mg/kg	50	n.d.	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	mg/kg	50	n.d.	-
(2-ethylhexyl) phthalate (DMEP)	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	
(DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
(F) (Fluorine (F)) (CAS No.: 14762-94-8)	BS EN 14582: 2016 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
(Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	-
(I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(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 (Giacz15)	mg/kg	-	n.d.		

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(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.	-

(NchY)

1. mg/kg = ppm 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit ()
3. n.d. = Not Detected (); MDL / Less than MDL
4. "-" = Not Regulated ()
5. ILAC-G8:09/2019 (w=0)

(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



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PFAG FYa Uf_

PFAS

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)	2795-39-3
	Potassium perfluorooctanesulfonate (PFOS-K)	
	(PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	
	(PFOS-NH ₄)	29081-56-9
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	
	(PFOS-NH(OH) ₂)	70225-14-8
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	
	(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	
(PFOS-DDA)	251099-16-8	
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)		
(PFOS-N(C ₄ H ₉) ₄)	111873-33-7	
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C₄H₉)₄)		
(POSF)		
Perfluorooctane sulfonyl fluoride (POSF)		

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(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(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 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
	(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
	(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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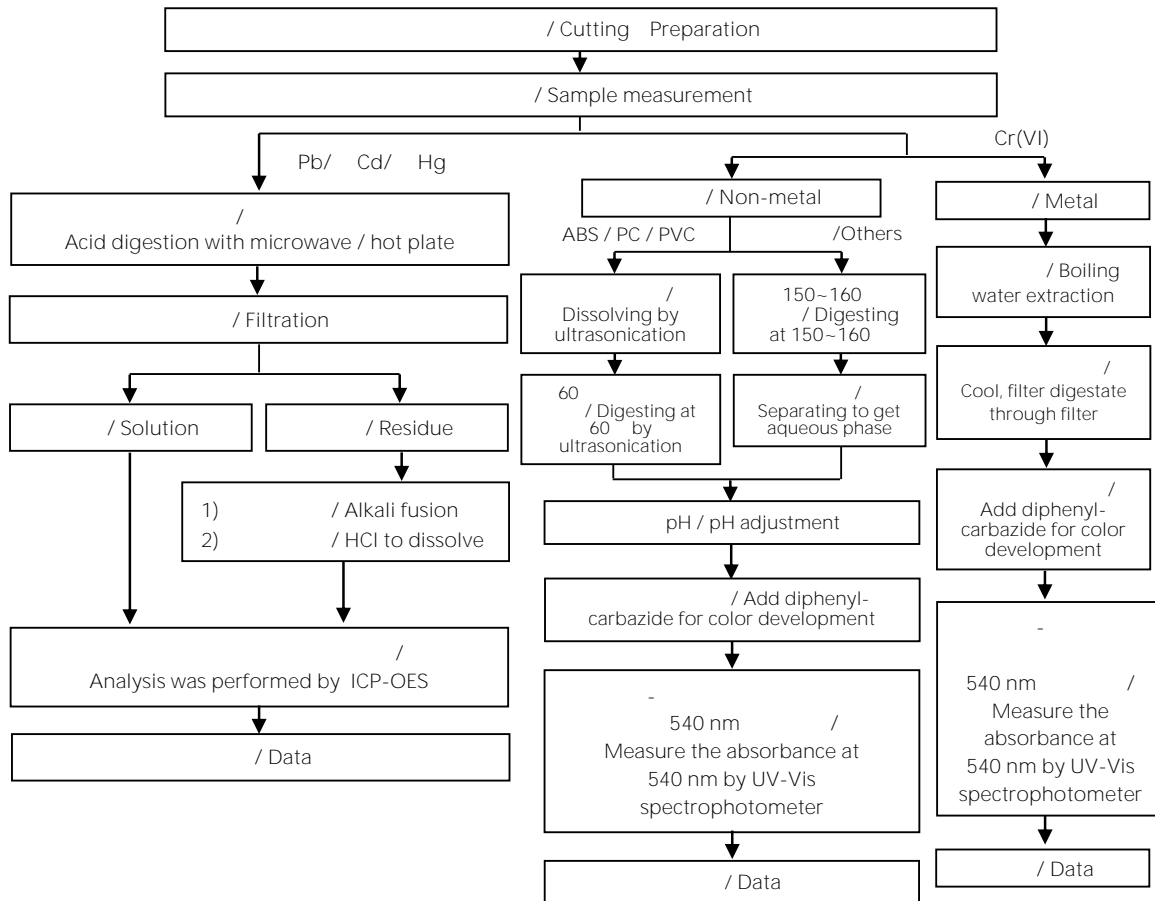
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/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded



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/ Analytical flow chart - PBBs/PBDEs

/ First testing process

/ Optional screen process

/ Confirmation process



/ Sample extraction
/ Soxhlet method



/ Filter



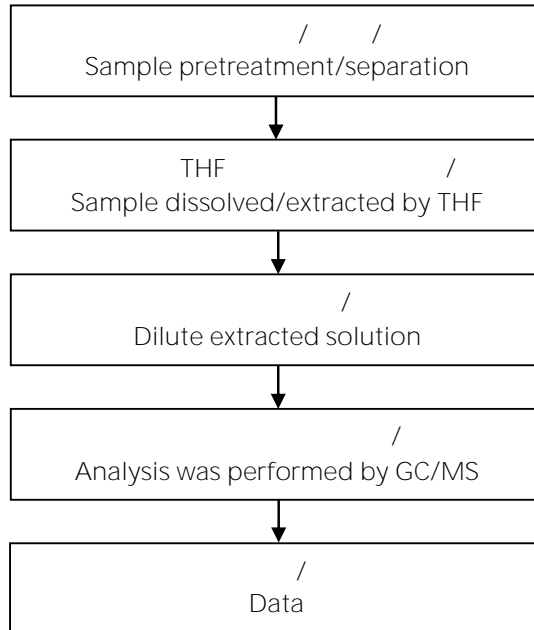
/ GC/MS

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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



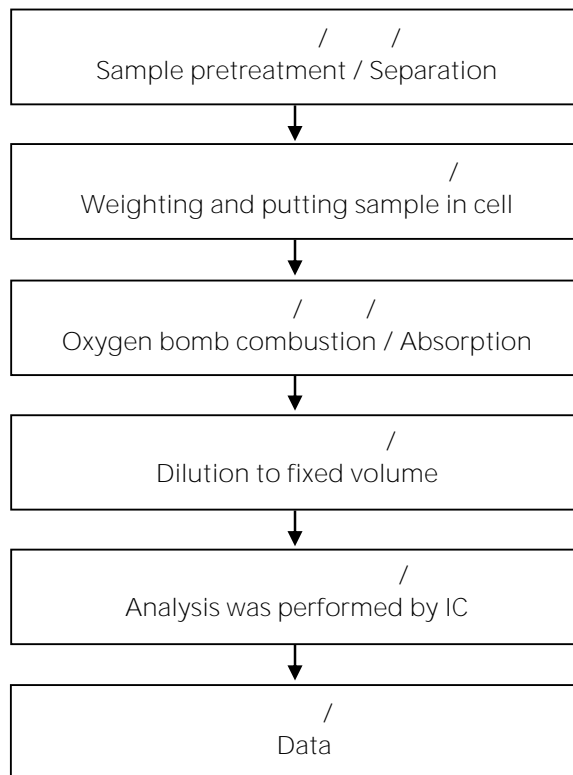
SGS

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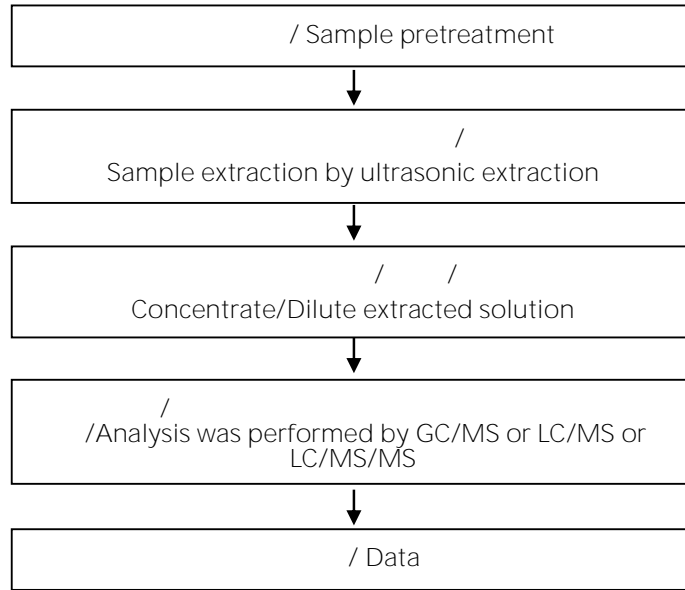
/ Analytical flow chart - Halogen



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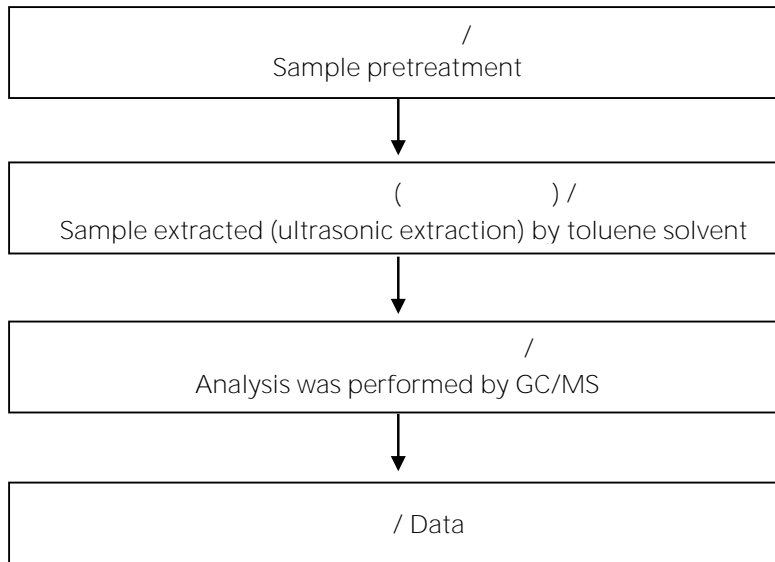
(/ /) / Analytical flow chart PFAS (including PFOA/PFOS/its related compound, etc.)



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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



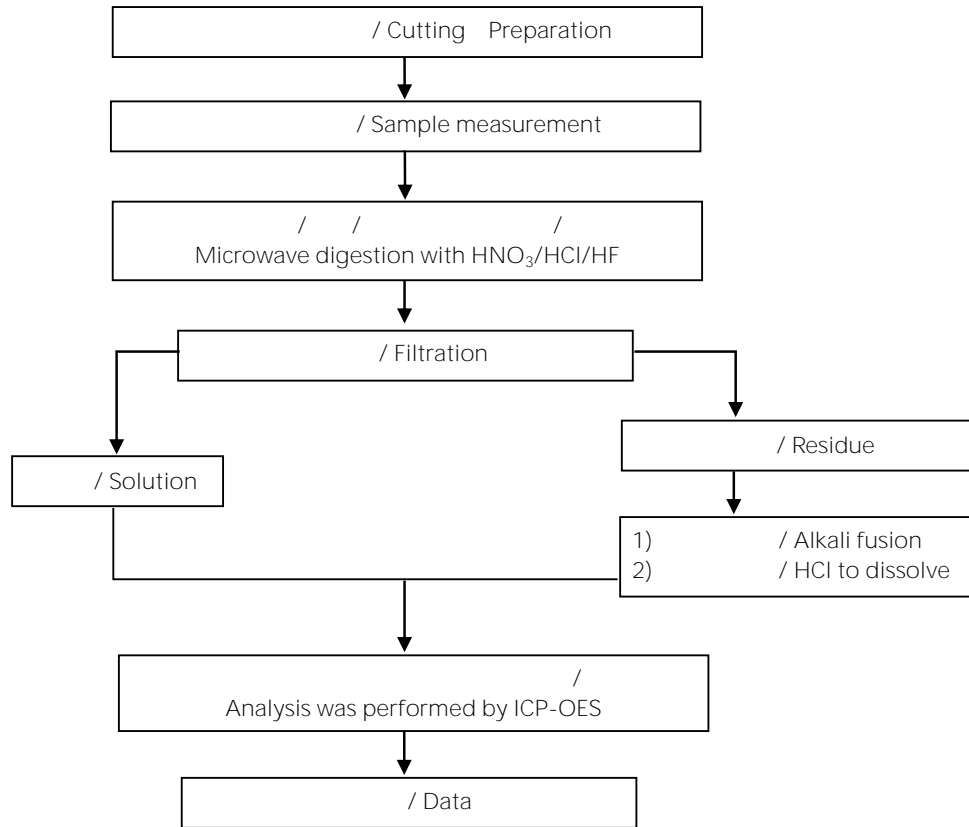
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() / Analytical flow chart of elements (Heavy metal included)

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.

