



Test Report

(No.): ETR23C05767 (Date): 11-Jan-2024 (Page): 1 of 18

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

fHY`Zc`ck ]b[ `gUa d`Yfgk Ug#k YfY`gi Va ]hYX`UbX`jXyb]ZjYX`Vmh`Y`Udd`jWb

Ugk

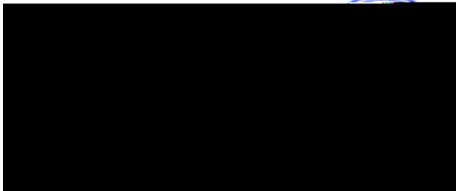
BASIC INFORMATION	
Type of Product	XI3030-RGB Series
Supplier Company Name	EVERLIGHT
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
Tel / Fax / Email	TEL:886-2685-6688
	FAX:886-2685-6699
	E-MAIL: lindawang@everlight.com
Contact Person	LI LING WANG
EVERLIGHT REPORT NO	XI3030-RGB Series Sampling Product : XI3030-RGB200BH-B01-2T-AM-SGS-11-Jan-2024
PRODUCT INFORMATION	
Product/component Sample description	Ambient light/Switches light
Quantity (numbers or weight)	0.0157 g
EVERLIGHT P/N	XI3030-RGB Series Sampling Product : XI3030-RGB200BH-B01-2T-AM
Product Lot No	T231116K28J275
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-Dec-2023  
(Testing Period) : 28-Dec-2023 to 11-Jan-2024

fHYgh`F Ygi `hgk : (Please refer to following pages).



PIN CODE: 94A8699E

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fHYghFYei YghYXt : (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).)

f7cbWi g]cbt : (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.)

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No.1 : XI3030-RGB SERIES

fHYghFYgi `hgt

(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))		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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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
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.	-
PCB a 12D66gk		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.	-
PCB a 12D689gk		mg/kg	-	n.d.	1000
(BBP) (Butyl benzyl phthalate (BBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
(DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
(2- ) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
(DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	IEC 62321-8: 2017 (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	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- ) (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		mg/kg	50	n.d.	-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.	-
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)		mg/kg	50	n.d.	-
(DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)		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)		mg/kg	0.01	n.d.	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
Hydrocarbons) (PAHs)					
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)	A fPS 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.	
PAHs)		mg/kg	-	n.d.	

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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
	IEC 62321: 2008 (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	/ mg/kg	5	n.d.	-
		mg/kg	50	n.d.	-
		mg/kg	50	n.d.	-
		mg/kg	50	n.d.	-
		mg/kg	50	n.d.	-
	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

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f5 ZDGŁ ; G'D5 < g'

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

	1 (Category 1)	2 (Category 2)	3 (Category 3)
	( 30 )	1 30 ( )	
	2009/48/EC	3 (Materials that	
(Parameter)	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))	are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-	

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D: 5G FYa Uf\_

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.))

(Classification of Substance Concentration)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(PFOS)	1763-23-1
	(PFOS-K)	2795-39-3
	Potassium perfluorooctanesulfonate (PFOS-K)	
	(PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	
		29081-56-9
	(PFOS-NH(OH) <sub>2</sub> )	70225-14-8
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	
	(PFOS-N (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> )	
		251099-16-8
	(POSF)	307-35-7
	Perfluorooctane sulfonyl fluoride (POSF)	
	(PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	

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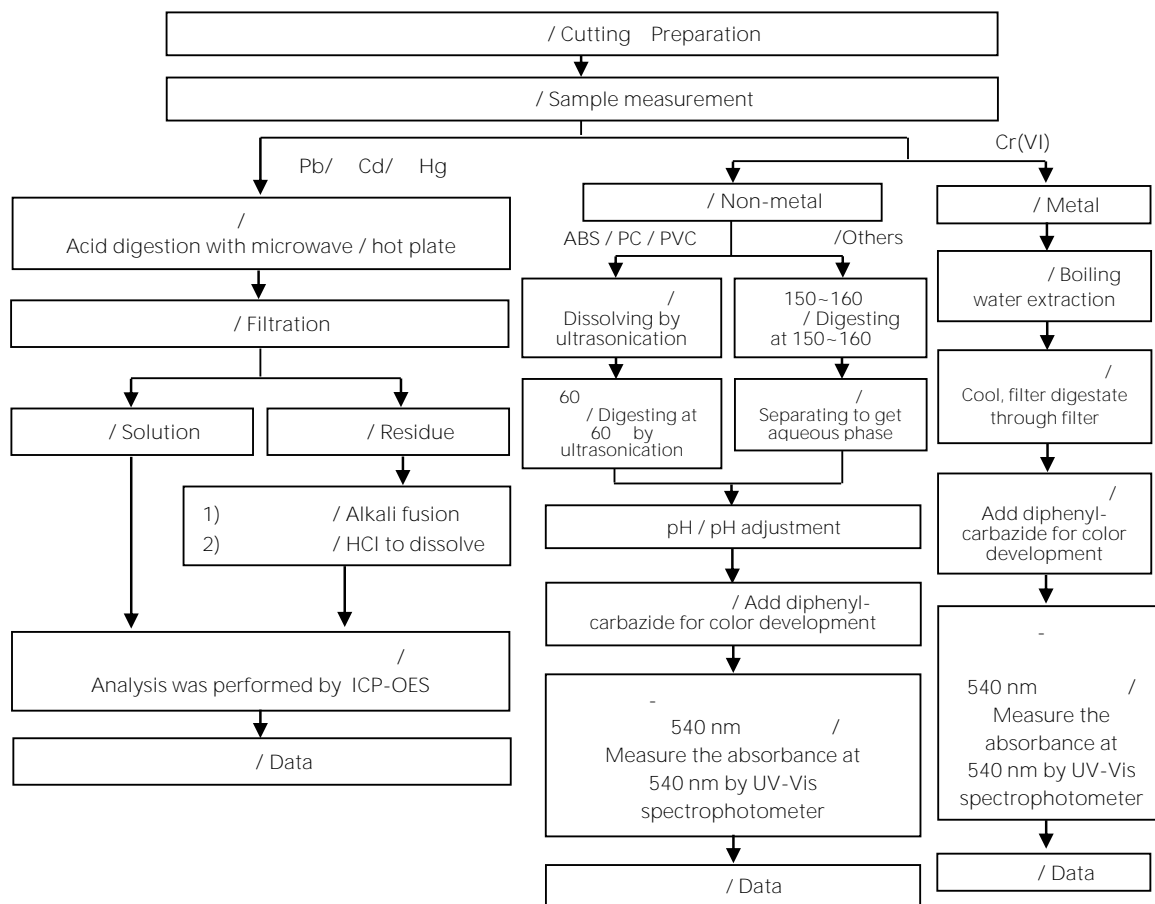
(EVERLIGHT ELECTRONICS CO., LTD.)

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.

Cr<sup>6+</sup> test method excluded



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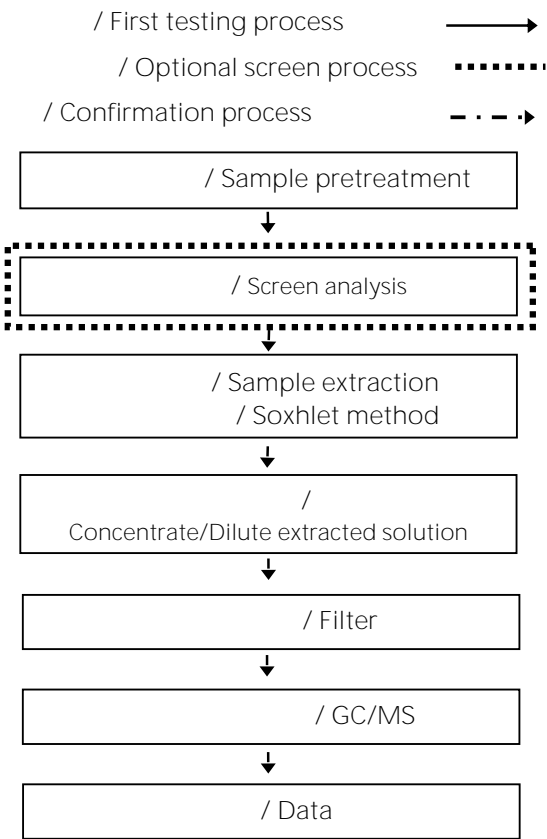
(Date): 11-Jan-2024

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/ Analytical flow chart - PBBs/PBDEs



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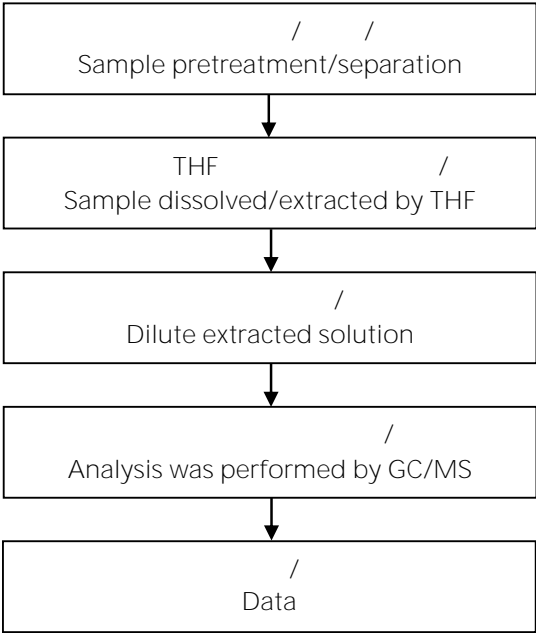
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



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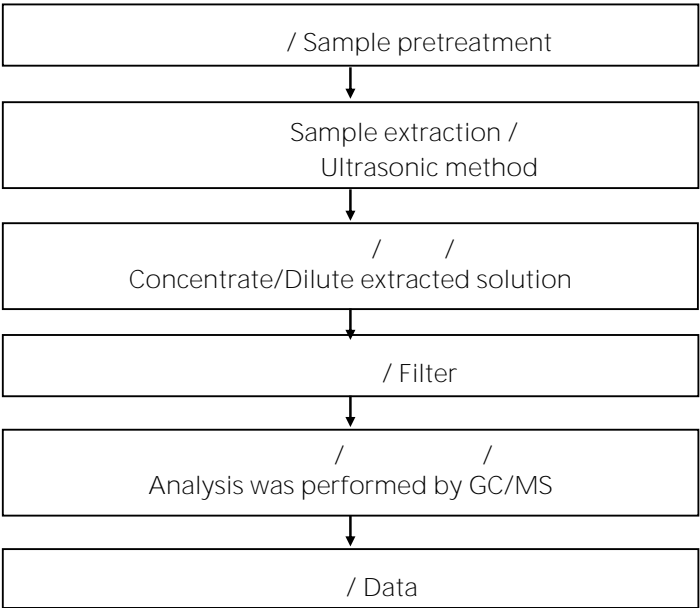
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/ Analytical flow chart - HBCDD



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# Test Report

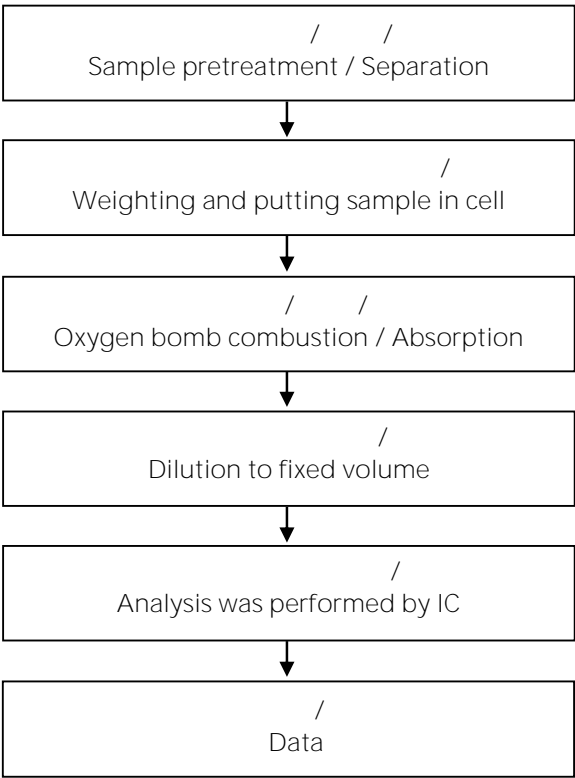
(No.): ETR23C05767

(Date): 11-Jan-2024

(Page): 14 of 18

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

/ Analytical flow chart - Halogen



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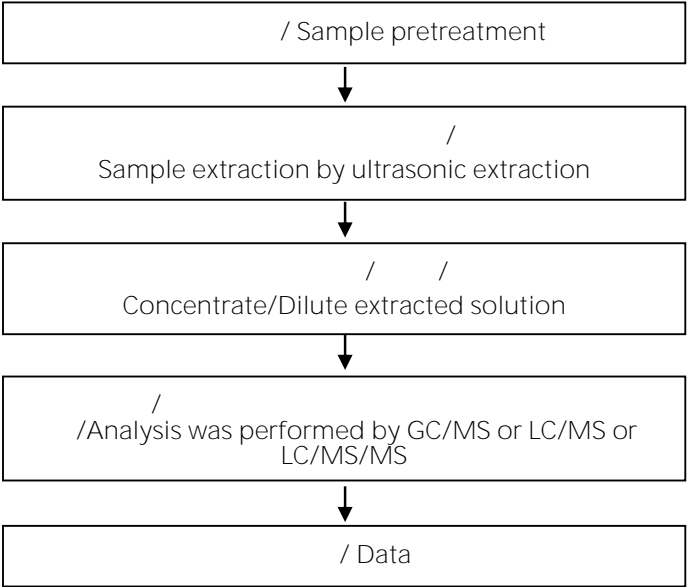


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( / / ) / Analytical flow  
chart PFAS (including PFOA/PFOS/its related compound, etc.)



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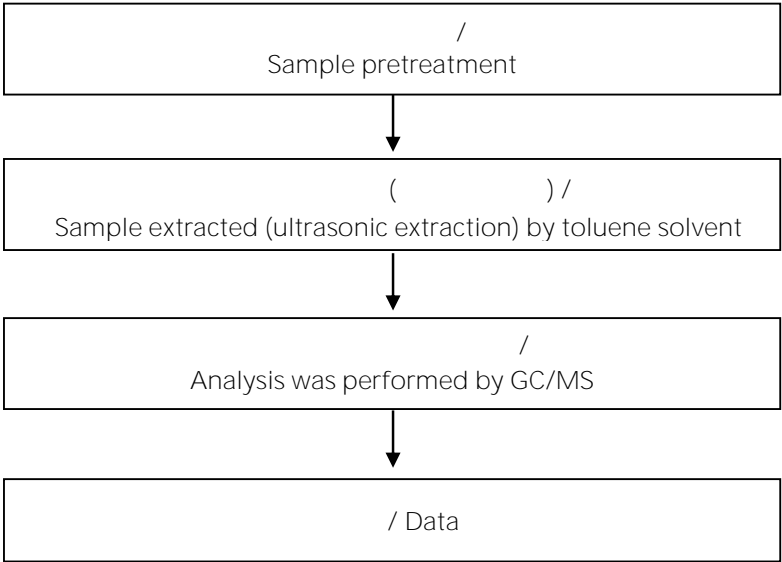


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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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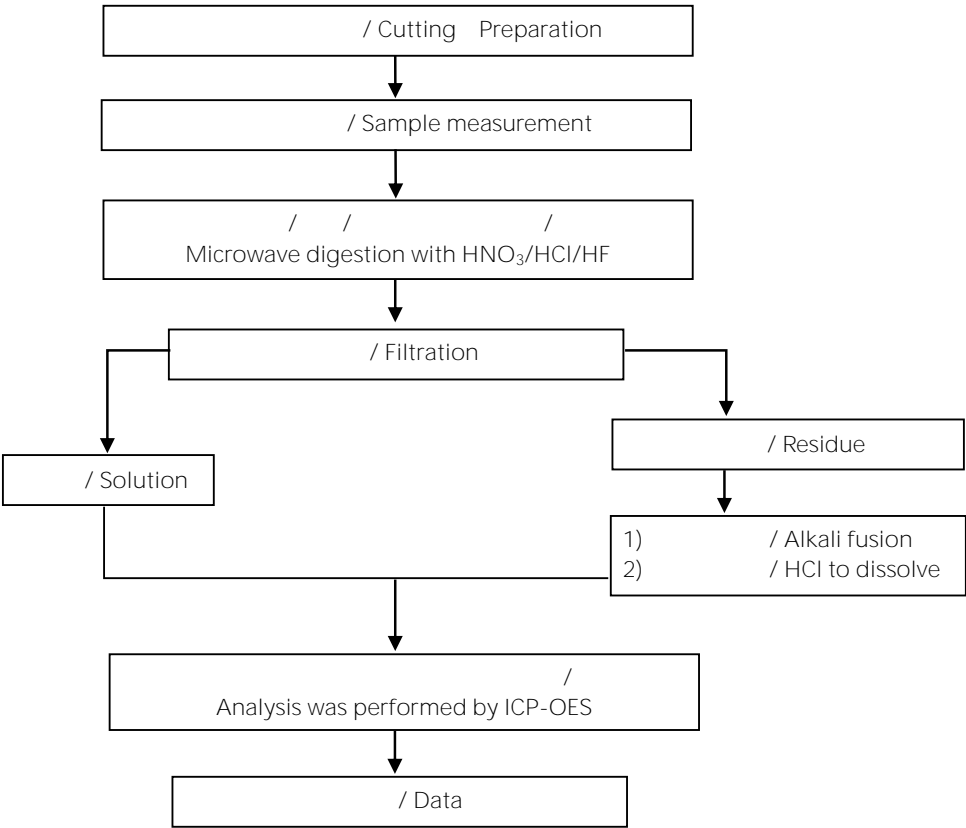
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( ) / Analytical flow chart of elements (Heavy metal included)

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



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(End of Report) \*\*

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