

Test Report

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

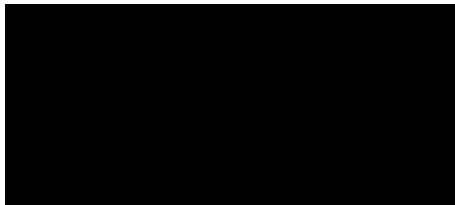
(The following sample(s) was/were submitted and identified by the applicant as)

BASIC INFORMATION	
Type of Product	DIP ITR
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: allenchiang@everlight.com
Contact Person	Allen
EVERLIGHT REPORT NO	EVERLIGHT-DIP ITR SERIES ITR1XXXX ITR2XXX ITR1XXX SERIES Sampling Product : ITR1801DT50A/TB-SGS-15-Jun-2023
PRODUCT INFORMATION	
Product/component Sample description	Opto-Sensor
Quantity (numbers or weight)	0.5193 g
EVERLIGHT P/N	DIP ITR SERIES ITR1XXXX ITR2XXX ITR1XXX SERIES Sampling Product : ITR1801DT50A/TB
Product Lot No	SZ230505003-061
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) : 02-Jun-2023
 (Testing Period) : 02-Jun-2023 to 15-Jun-2023

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



PIN CODE: 144050F4

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(Test Requested : (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).)

(Conclusion) : (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.)

(Test Part Description)

No.1 : (BLACK PLASTIC)
 No.2 : (BODY)
 No.3 : (SILVER COLORED PLATING LAYER OF SILVER COLORED METAL)
 No.4 : (SILVER COLORED BASE MATERIAL OF SILVER COLORED METAL)
 No.5 : () (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

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(Test Results)

(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC	mg/kg	2	n.d.	n.d.	---	100
(Pb) (Lead (Pb))	62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	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.	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.	n.d.	---	1000
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (IEC 62321-5:	mg/kg	2	---	---	n.d.	100
(Pb) (Lead (Pb))	2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	---	30.7	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
(Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	IEC 62321-7-1: 2015 - (With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm ²	0.1	---	---	n.d.	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Monobromobiphenyl)	IEC 62321-6: 2015 / (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	n.d.	---	-
(Dibromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Tetrabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Decabromobiphenyl)		mg/kg	5	n.d.	n.d.	---	-
(Sum of PBBs)		mg/kg	-	n.d.	n.d.	---	1000
(Monobromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	---	-
(Decabromodiphenyl ether)	mg/kg	5	n.d.	n.d.	---	-	
(Sum of PBDEs)	mg/kg	-	n.d.	n.d.	---	1000	

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MDL

(Method)

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	n.d.	---	-
(DNNP) (Di-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.	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.	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.	n.d.	---	-
(Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	236	---	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	n.d.	---	-
(I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	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.	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.	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.	n.d.	---	
(e) (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	n.d.	---	
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	n.d.	---	
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	n.d.	---	
(j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	n.d.	---	
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	n.d.	---	
(Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	n.d.	---	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	n.d.	---	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	n.d.	---	
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	n.d.	---	
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	n.d.	---	
(Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	n.d.	---	
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	n.d.	---	
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	n.d.	---	
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	n.d.	---	
15 (Sum of 15 PAHs)		mg/kg	-	n.d.	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.	n.d.	---	-

(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.4	No.5	
(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 62321-7-1: 2015 (With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm ²	0.1	n.d.	---	-
(Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	US EPA 3050B: 1996 (With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	-

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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 (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)	b. (Other consumer products)	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)
Naphthalene	< 1	< 2		< 10	

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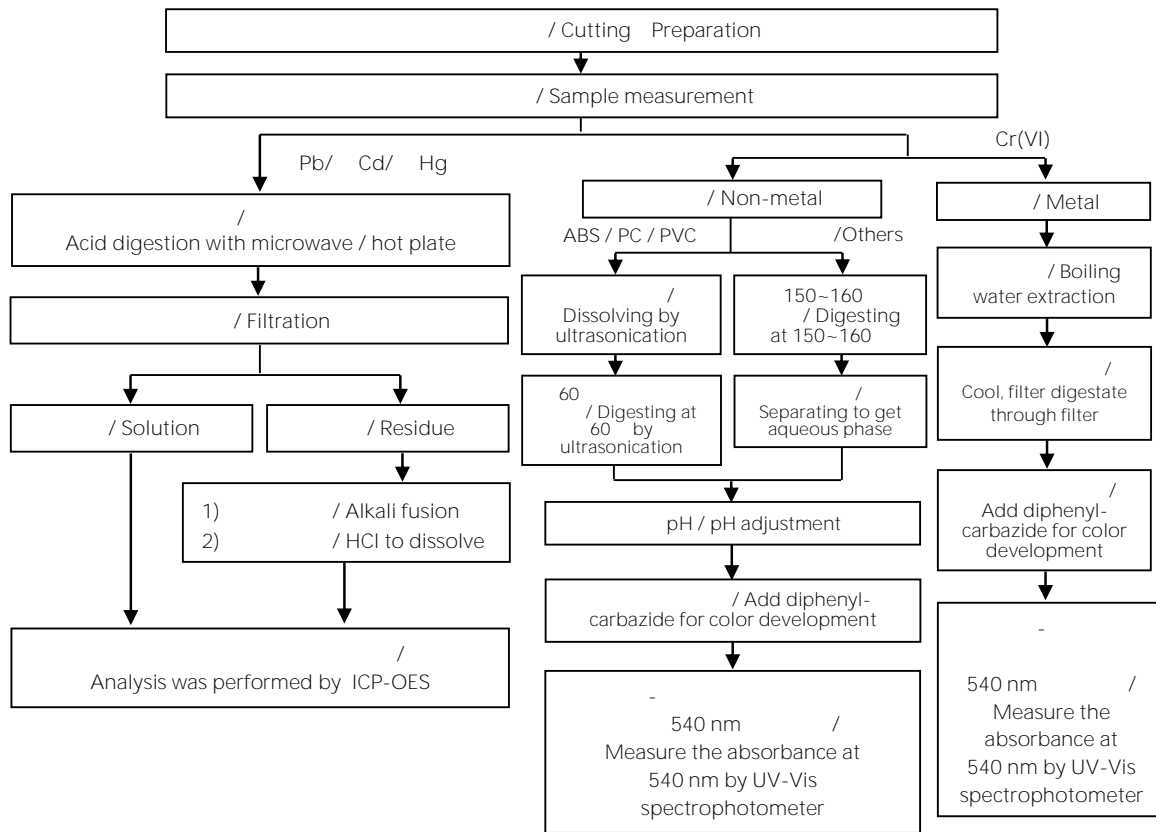
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/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded



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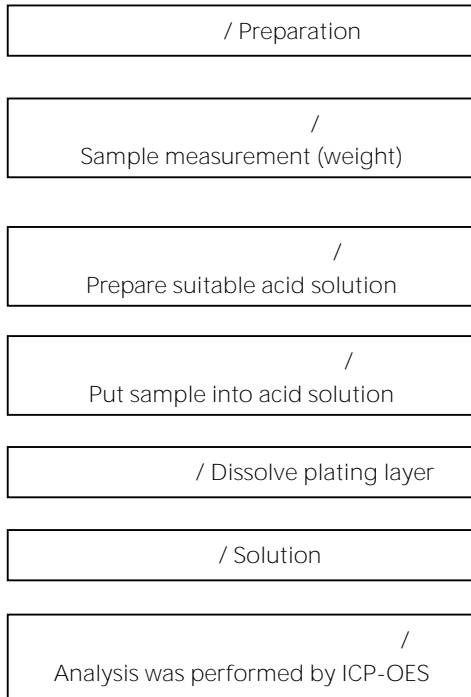
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/ Flow chart of stripping method for metal analysis

/ The plating layer

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

Cr⁶⁺ test method excluded

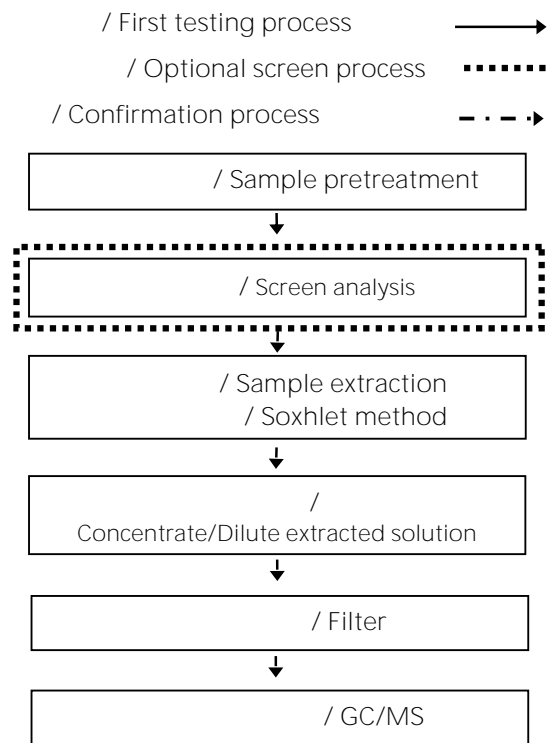


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/ Analytical flow chart - PBBs/PBDEs



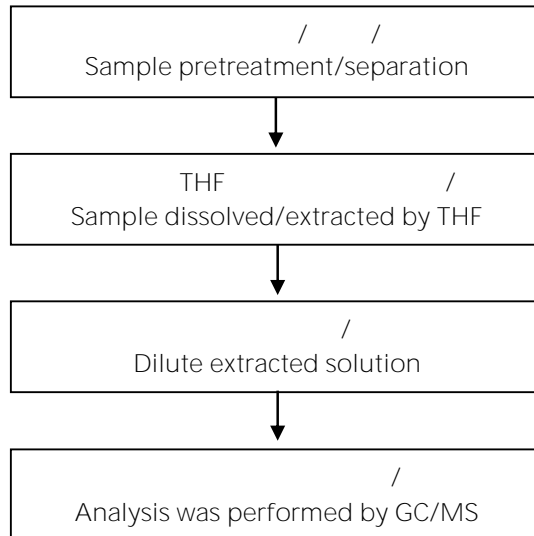
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Test Report

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

/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



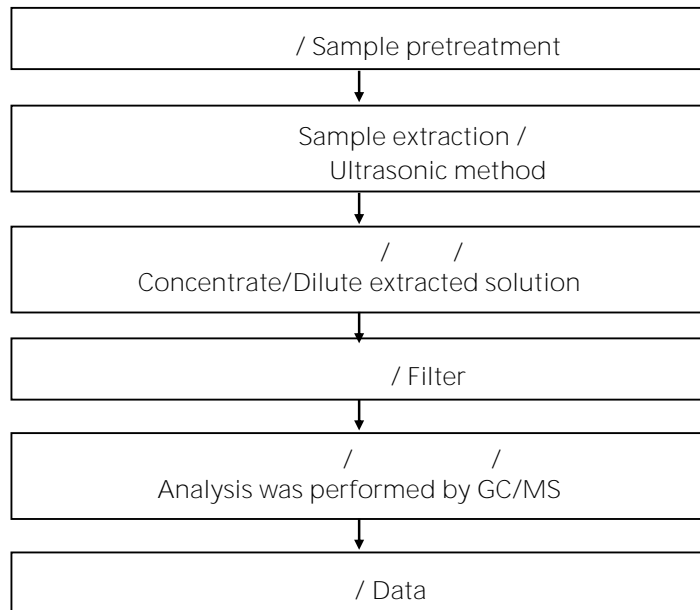
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/ Analytical flow chart - HBCDD



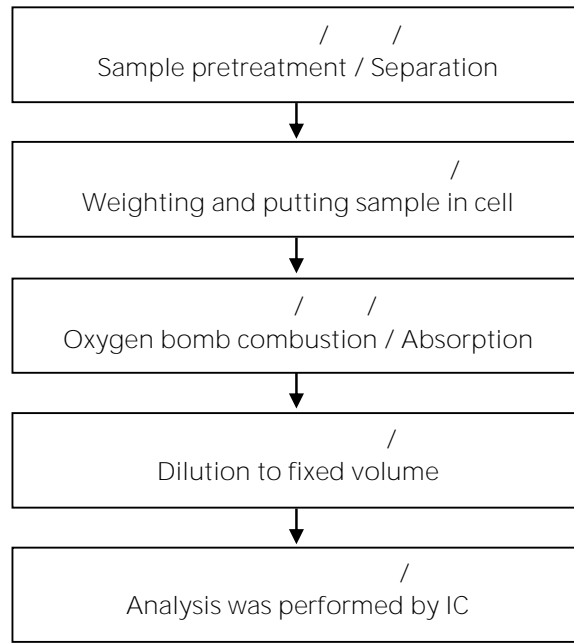
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Test Report

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/ Analytical flow chart - Halogen



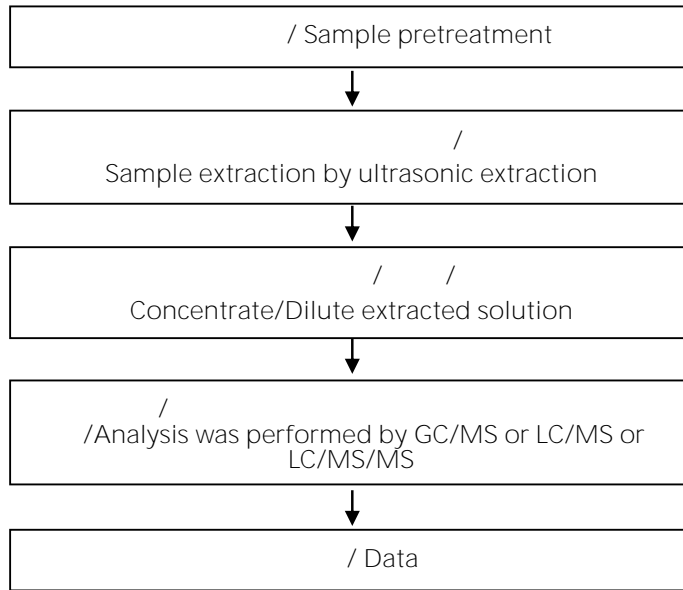
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(/ /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)

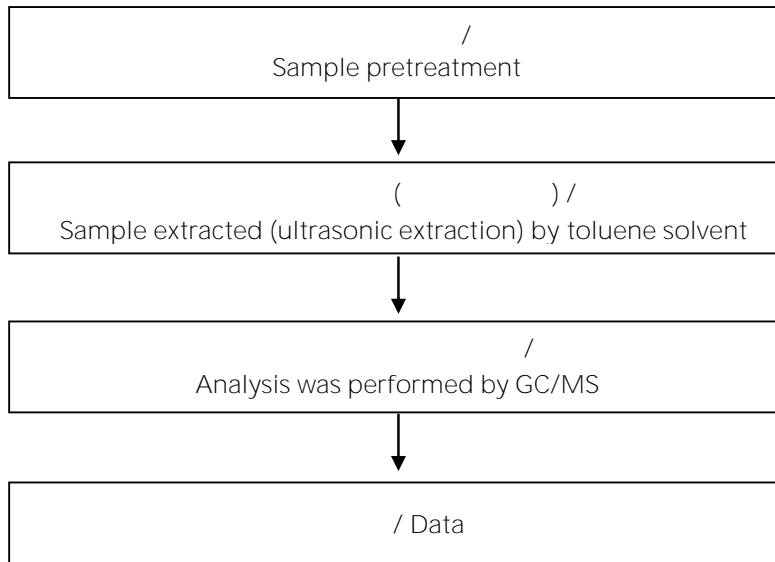


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Test Report

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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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(Date): 15-Jun-2023

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Test Report

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

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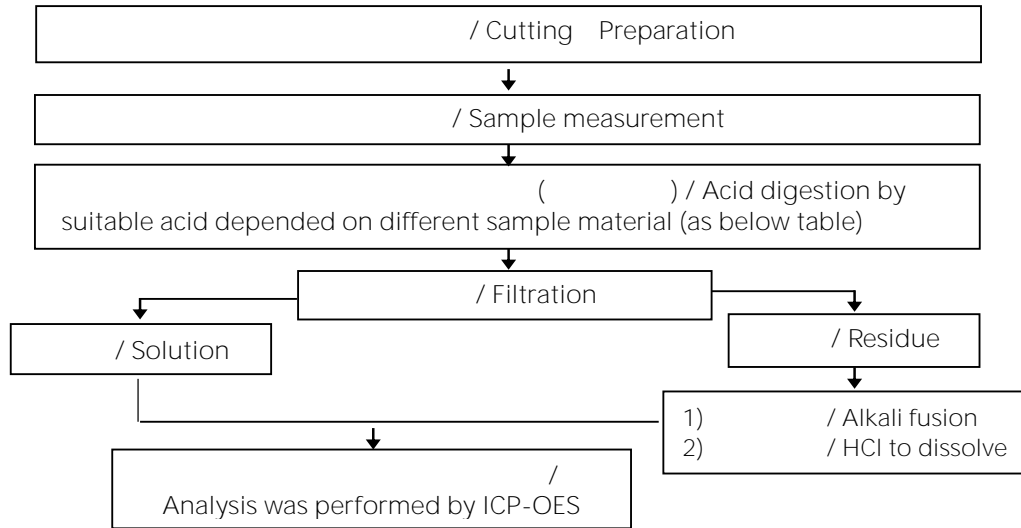
Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)
 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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Test Report

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** (End of Report) **

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