



(No.): ETR23600260

(Date): 15-Jun-2023

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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-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.	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 62321-5: 2013 (With reference to IEC 62321-5: 2013, 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
(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.	---	-
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	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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(Note)

1. $\text{mg/kg} = \text{ppm}$ $0.1\text{wt}\% = 0.1\% = 1000\text{ppm}$

2. MDL = Method Detection Limit ()

3. n.d. = Not Detected (); MDL / Less than MDL

4. "-" = Not Regulated ()

5. "---" = Not Conducted ()

6. (PFOS and its salts including):

CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

7. (PFOA and its salts including):

CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

8. (#2) =

a. $0.13 \mu\text{g}/\text{cm}^2$. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).

b. n.d. ($0.10 \mu\text{g}/\text{cm}^2$) / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating

c. 0.10 0.13 $\mu\text{g}/\text{cm}^2$. / The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.

9. 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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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	

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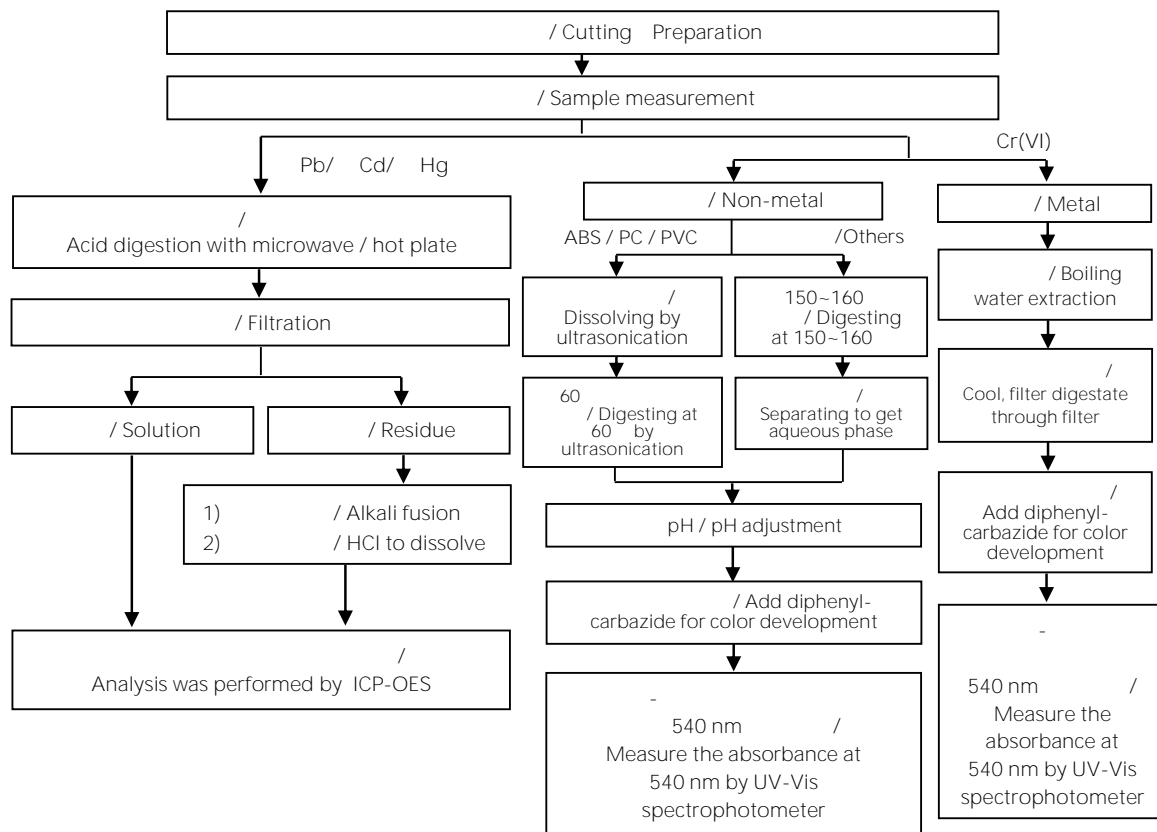
(EVERLIGHT ELECTRONICS CO., LTD.)

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.

Cr⁶⁺ test method excluded



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Test Report

(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

/ Preparation

/ Sample measurement (weight)

/ Prepare suitable acid solution

/ Put sample into acid solution

/ Dissolve plating layer

/ Solution

/ Analysis was performed by ICP-OES

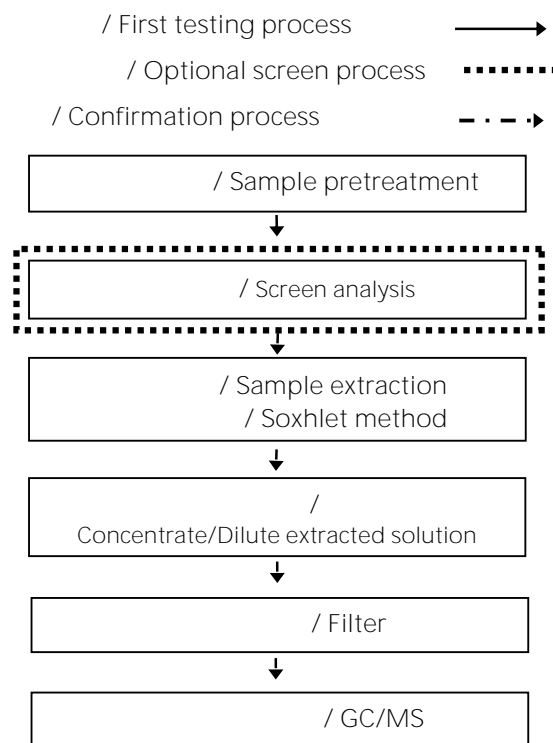
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Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

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

/ Analytical flow chart - PBBs/PBDEs



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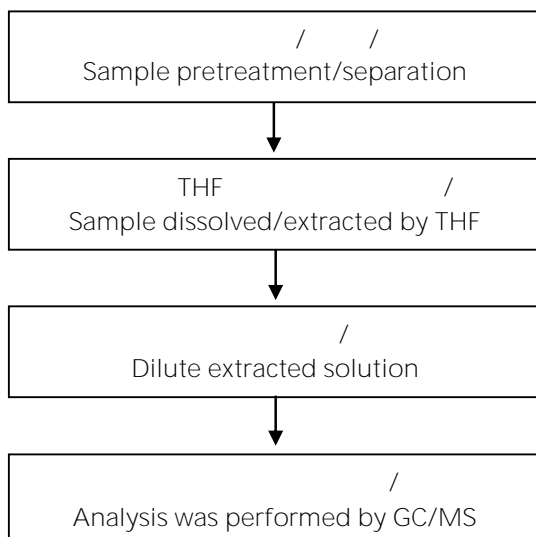
Test Report

(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



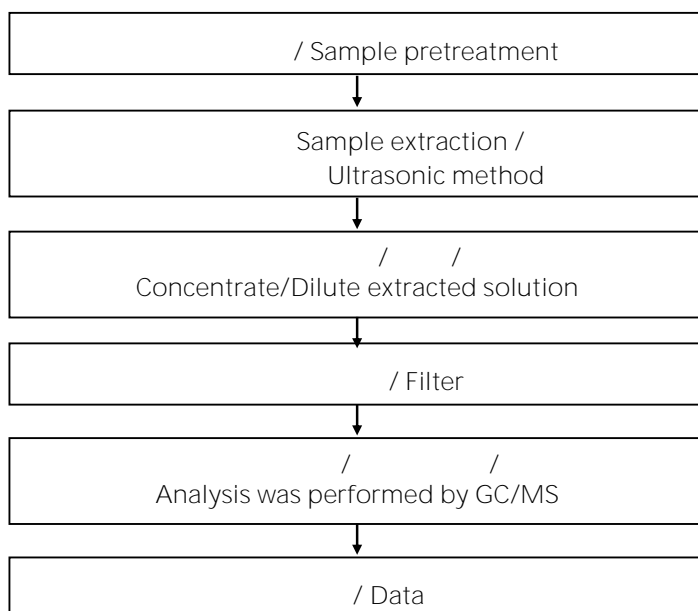
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/ Analytical flow chart - HBCDD



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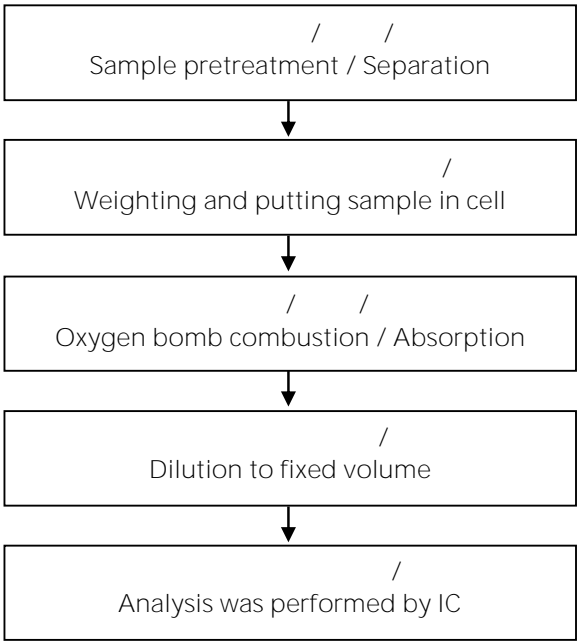
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Test Report

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/ Analytical flow chart - Halogen



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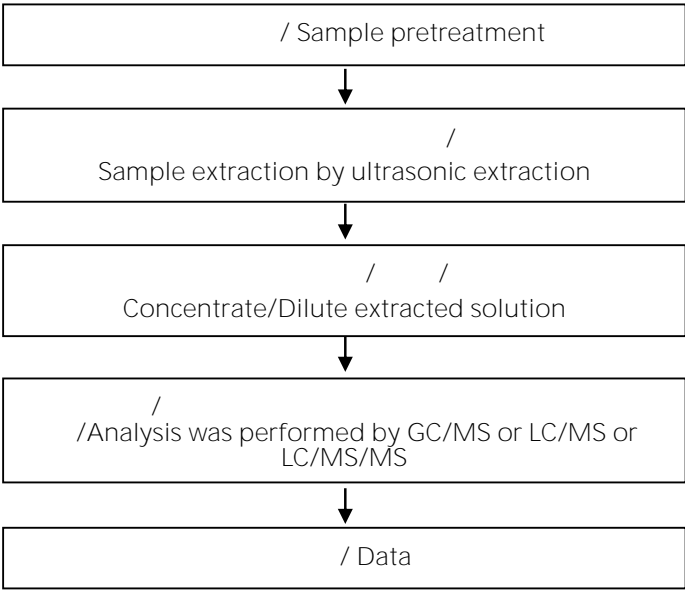
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(/ /) / Analytical flow

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



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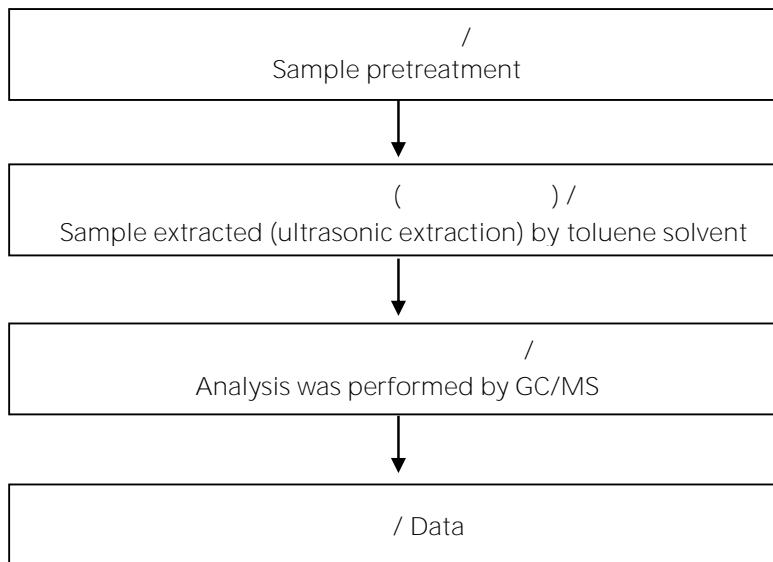
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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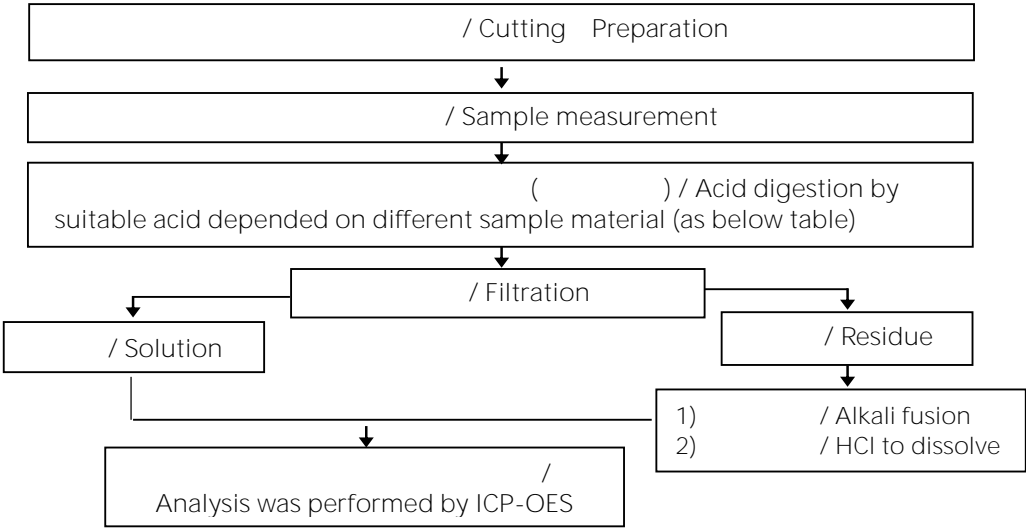
Test Report

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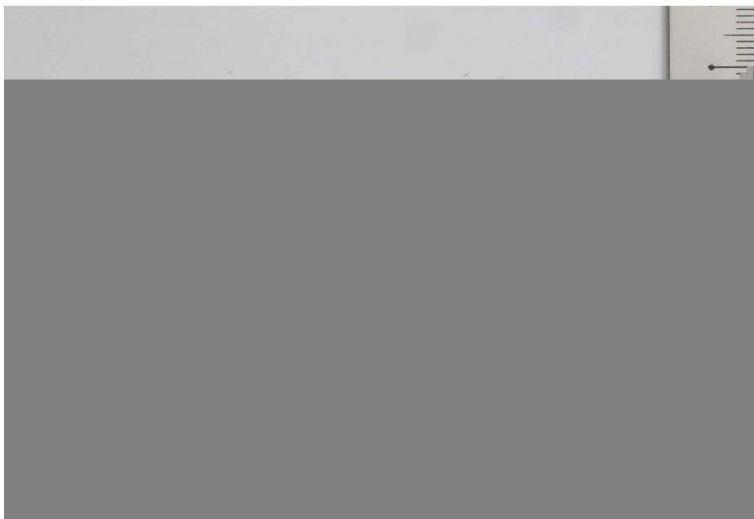
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

ETR23600260 NO.4



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

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