

(No.): ETR23900021

(Date): 15-Sep-2023

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(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	HIGH POWER LED EHP A2X			
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-HIGH POWER LED EHP A2X SERIES			
	Sampling Product: EHP-A23/RGB33-P01/TR-SGS-15-Sep-2023			
PRODUCT INFORMATION				
Product/component Sample	Automotive exterior lighting			
description				
Quantity (numbers or weight)	0.0606 g			
EVERLIGHT P/N	HIGH POWER LED EHP A2X SERIES			
	Sampling Product: EHP-A23/RGB33-P01/TR			
Product Lot No	Y230316A1802VB2WO			
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) : 01-Sep-2023

(Testing Period) : 01-Sep-2023 to 15-Sep-2023

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





PIN CODE: A35A415

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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)

(2)

(AfPS) GSPAHs

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 : (BODY)

No.2 : (PLATING LAYER OF SILVER COLORED METAL PIN)
No.3 : (BASE MATERIAL OF SILVER COLORED METAL PIN)

No.4 : () (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

(Test Results)

			MDL				
(Test Items)	(Method)	(Unit)			(Result))	(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.			100
	(With reference to IEC						
(Pb) (Lead (Pb))	62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.			1000



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/T t t \	(1.4.1)	(Unit)				(Limit)	
(Test Items)	(Method)	(Unit)		(Result) No.1 No.2 N		No.3	(Limit)
(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
(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		3.33		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	mg/kg	2			n.d.	100
(Pb) (Lead (Pb))	62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2			3.43	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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				MDL				
		(Method)	(Unit)					(Limit)
					No.1	No.2	No.3	
	IEC 62	2321-7-1: 2015 -	µg/cm²	0.1		n.d.	n.d.	-
	62321-7-1	(With reference to IEC : 2015, analysis was performed						
	by UV-VIS							
(Monobromobiphenyl)			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.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
	IEC 62	2321-6: 2015 /	mg/kg	5	n.d.			-
		(With reference to IEC 62321-		-	n.d.			1000
		nalysis was performed by	mg/kg	5	n.d.			-
	GC/MS.)		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.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	-	n.d.			1000



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(Took House)	/A 4 - 1 - 1 \	(11, 11)	MDL	(Daguit)			(1 ! !+)
(Test Items)	(Method)	(Unit)		No.1	(Result) No.2	No.3	(Limit)
(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))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			1000
(2-) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			1000
(DIBP) (Diisobutyl phthalate (DIBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			1000
(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)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(DNOP) (Di-n- octyl phthalate (DNOP)) (CAS No.: 117-84-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(2-) (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-

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(Test Items)	(Method)	(Unit)	MDL	No.1	(Result) No.2	No.3	(Limit)
(DIOP) (Diisooctyl phthalate (DIOP))(a)-3(4(I	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.			-
		mg/kg	50	262			-
	BS EN 14582: 2016	mg/kg	50	n.d.			-
	(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.			-
		mg/kg	50	n.d.			-
	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
(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.			-

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	(Method)	(Unit)	MDL	No.1	(Result) No.2	(Limit)
(Polycyclic Aromatic Hydrocarbons) (PAHs)						
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)		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)	A fPS GS 2019:01 PAK	mg/kg	0.2	n.d.		
(Chrysene) (CAS No.: 218-01-9)	/ (With reference to AfPS	mg/kg	0.2	n.d.		
	GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.		
		mg/kg	0.2	n.d.		
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.		
an d)		mg/kg	0.2	n.d.		
		mg/kg	0.2	n.d.		
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.		
		mg/kg	0.2	n.d.		
		mg/kg	0.2	n.d.		
		mg/kg	-	n.d.		



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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(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.	-

(Note)		
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.	"" = Not Conducted ()	
6.	(#2) =	•	
	a. 0.13 μg/cm ²		/The sample is positive for Cr(VI) if the Cr(VI)
	concentration is greater than 0.13	βμg/cm². The sample coa	ting is considered to contain Cr(VI).
	_	Oμg/cm ²)	-
	n.d. (concentration less than 0.10	μg/cm ²). The coating is c	onsidered a non-Cr(VI) based coating
	c. 0.10 0.13 µ	g/cm ²	. / The result between 0.10 µg/cm² and
		0	e coating variations may influence the determination.
7.	, 3		
٠.		,	lecision rule for conformity reporting is based on
	•		3 1 3
	Binary Statement for Simple Acce	ptance kule (w=0) stated	in ILAC-G8:09/2019. According to this rule, the

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judgement of conformity is based on the comparing test results with limits.)



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PAHs Remark

(AfPS): GSPAHs

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

	1 (Category 1)	2 (Category 2)		3 (Cate	egory 3)
(Parameter)	(30) 30 (Materials that are not in Category 1, with intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3		1 2 ()(Mat	30 erials not ry 1 or 2, with eable short-	
	years of age with intended long-term skin contact (> 30 seconds))	, ,	b. (Other consumer products)	a. 14 (Use by children under 14)	b. (Other consumer products)
Naphthalene	< 1	< 2	,,	< 10)
Phenanthrene					
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene	< 1 Suiti	< 5 Sulli	< 10 Suiti	< 20 Sulli	< 50 Suiii
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2				·



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PFAS Rei	mark					
	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.))

(Classification of Substance Concentration)	(Substance Name)	CAS No.
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
salts)	(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
	$\label{eq:pfos-N(C2H5)4)} \mbox{Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)4)}$	56773-42-3



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(Classification of Substance Concentration)	(Substance Name)	CAS No.	
its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its	(PFOS-DDA) 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)	251099-16-8	
salts)	(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	
Perfluorooctanoic acid and its	(PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5	
salts (PFOA and its salts) (CAS No.: 335-67-1 and its	(PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8	
salts)	(PFOA-Ag) Silver perfluorooctanote (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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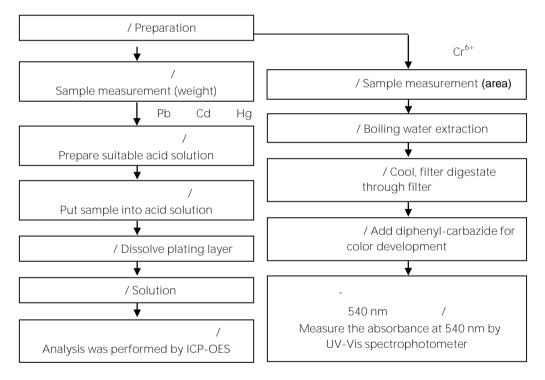
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/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart. ${\rm Cr}^{6+}$ test method excluded





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/ Analytical flow chart - PBBs/PBDEs

/ First testing process
/ Optional screen process
/ Confirmation process

/ Sample pretreatment

/ Screen analysis

/ Sample extraction
/ Soxhlet method

/
Concentrate/Dilute extracted solution

/ Filter
/ GC/MS



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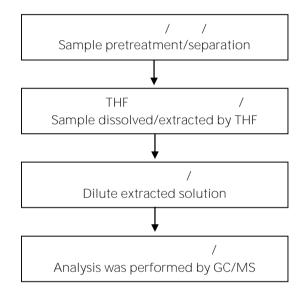
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





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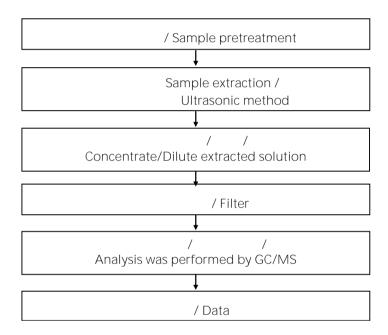
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/ Analytical flow chart - HBCDD





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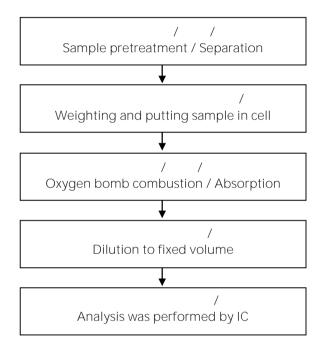
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/ Analytical flow chart - Halogen





	_
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$\Gamma \cap \Gamma$	Darani
$\Gamma \subset \mathcal{I}$	Report

		ONICS CO., LTE A RD., SHULIN	•	IPEI CITY 23860, TAIWAN)
	/	/)	/ Analytical flow
t - P	FAS (includi	ng PFOA/PFOS/	its related com	pound, etc.)
/ Sample pretreatment				
		↓		
			/	
Sample extraction by ultrasonic extraction				

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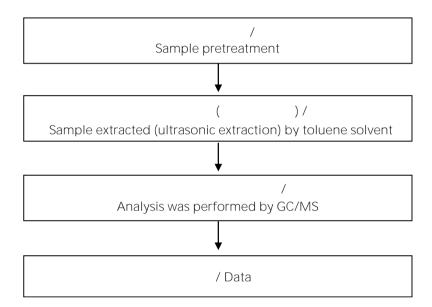
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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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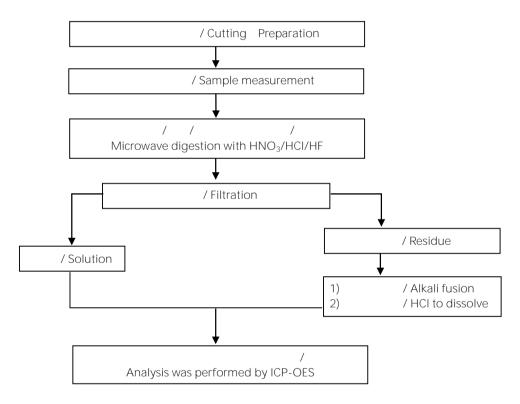
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/ Analytical flow chart of elements (Heavy metal included)

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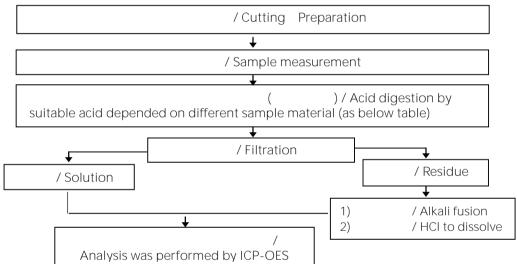
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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, $\rm HNO_3$, $\rm HCI$, $\rm HF$, $\rm H_2O_2$
/ 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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(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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