

(No.): ETR23C05751

(Date): 11-Jan-2024

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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	SMD C TYPE
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	SMD C TYPE  37-21/45/5X/6X-XX/BL-28XX/BL-30XX/BL-40XX/BL-70XX/40XX/ C3528/ C32XX/C20XX/ C50XX/C30XX/C40XX/BLA-2016/BLA-2835/ BLA-3014/BLA-4014/BLA-2810/C2218/C4506/ C3005/C2828/C3231/ C1616/C3804/LMP5054/5050-RGBWD/LMP1608/ LMP2121/LMP5918/ LMP7035/5515-RGB /67-63-RGB/ 6014/ 1608/ 2214/3011/67/C1608/ C1808 SERIES Sampling Product:BLA-2016NZ1THSC-LM9CB3037C265280-SGS-11-Jan-2024
PRODUCT INFORMATION	•
Product/component Sample description	Back Light/Lighting
Quantity (numbers or weight)	0.0048 g
EVERLIGHT P/N	SMD C TYPE  37-21/45/5X/6X-XX/BL-28XX/BL-30XX/BL-40XX/BL-70XX/40XX/ C3528/ C32XX/C20XX/ C50XX/C30XX/C40XX/BLA-2016/BLA-2835/ BLA-3014/BLA-4014/BLA-2810/C2218/C4506/ C3005/C2828/C3231/ C1616/C3804/LMP5054/5050-RGBWD/LMP1608/ LMP2121/LMP5918/ LMP7035/5515-RGB /67-63-RGB/ 6014/ 1608/ 2214/3011/67/C1608/ C1808 SERIES Sampling Product :BLA-2016NZ1THSC-LM9CB3037C265280
Product Lot No	T230417W18D234RZ
Country of Origin	TAIWAN
TEST INFORMATION	
Sample preparation	CUTTING
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582
MDL (Sample Submitted Pv)	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

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





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(Test Requested) : (1) RoHS 2011/65/FU 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).)

PAHs (As specified by client, to test PAHs and (2)

other item(s).)

(Conclusion) , DBP, BBP, (1)

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 : SMD C TYPE

(Test Results)

			MDL		
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.	100
	(With reference to				
(Pb) (Lead (Pb))	IEC 62321-5: 2013, analysis was	mg/kg	2	n.d.	1000
	performed by ICP-OES.)				
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017	mg/kg	2	n.d.	1000
	(With reference to IEC 62321-4:				
	2013+ AMD1: 2017, analysis was				
	performed by ICP-OES.)				



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			MDL		
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
(rost items)	(Method)	(01111)		No.1	(2111111)
Cr(VI) (Hexavalent Chromium	IEC 62321-7-2: 2017 -	mg/kg	8	n.d.	1000
Cr(VI))	(With				
	reference to IEC 62321-7-2: 2017,				
	analysis was performed by UV-VIS.)				
(Monobromobiphenyl)		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.	ı
(Heptabromobiphenyl)		mg/kg	5	n.d.	-
(Octabromobiphenyl)		mg/kg	5	n.d.	-
(Nonabromobiphenyl)		mg/kg	5	n.d.	ı
(Decabromobiphenyl)	IEC 62321-6: 2015	/ mg/kg	5	n.d.	ı
(Sum of PBBs)	(With reference to IEC	mg/kg	-	n.d.	1000
(Monobromodiphenyl ether)	62321-6: 2015, analysis was	mg/kg	5	n.d.	-
(Dibromodiphenyl ether)	performed by GC/MS.)	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.	-
(Sum of PBD Es)		mg/kg	-	n.d.	1000
(BBP) (Butyl		mg/kg	50	n.d.	1000
benzyl phthalate (BBP))					
(DBP) (Dibutyl	IEC 62321-8: 2017	/ mg/kg	50	n.d.	1000
phthalate (DBP))	(With reference to IEC				
(2- ) (DEHP)	62321-8: 2017, analysis was	mg/kg	50	n.d.	1000
(Di-(2-ethylhexyl) phthalate (DEHP))	performed by GC/MS.)				
(DIBP) (Diisobutyl		mg/kg	50	n.d.	1000
phthalate (DIBP))					

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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761- 40-0, 68515-49-1)		mg/kg	50	n.d.	ı
(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)	IEC 62321-8: 2017 /	mg/kg	50	n.d.	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	(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)		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	mg/kg	0.01	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	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)
(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 (T) C O C O O A D A V	mg/kg	0.2	n.d.	
(Chrysene) (CAS No.: 218-01-9)	A fPS GS 2019:01 PAK / With reference to	mg/kg	0.2	n.d.	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	/ (With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	performed by GC/WS.)	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 (Sum of 15 PAHs)		mg/kg	-	n.d.	



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(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)		mg/kg	50	7520	-
(CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	BS EN 14582: 2016 (With reference to BS EN	mg/kg	50	n.d.	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)	14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
(I) (lodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	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.	-

(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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PAHs Remark

(AfPS): GSPAHs

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

	1 (Category 1)	2 (Cate	egory 2)	3 (Cat	egory 3)
(Parameter)	intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3	are not in Category intended or foresed skin contact (> 30 s short-term repetitiv the skin)	eable long-term seconds) or ve contact with	covered by Catego intended or foresecterm skin contact (	30 erials not ry 1 or 2, with eable short- 30 seconds))
	years of age with intended long-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	)
Phenanthrene					
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene	< 1 Suiti	< 5 5dm	< 10 3dill	< 20 Julii	< 50 Sum
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	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
15 PAH (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

(Unit) mg/kg



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PFAS Remark	<							
PF/	AS	PFAS			PI	FAS		
					Р	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)				
	(PFOS)	1763-23-1		
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3		
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5		
	(PFO S-N H <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9		
PFOS, & (PFOS, its salts & derivatives)	$ (PFOS-NH(OH)_2) \\ Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)_2) \\$	70225-14-8		
	$ (PFOS-N (C_2H_5)_4) \\ Perfluorooctanesulfonic acid, tetraethylammonium \\ salt (PFOS-N(C_2H_5)_4) $	56773-42-3		
	(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		
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7		
	(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4		



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(Classification of Substance Concentration)	(Substance Name)	CAS No.
DEGG	(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
PFOS, & (PFOS, its salts & derivatives)	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	(PFOA)	335-67-1
	(PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	(PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
PFOA, &	(PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
(PFOA, its salts & derivatives)	(PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	(A PFO ) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	(PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5



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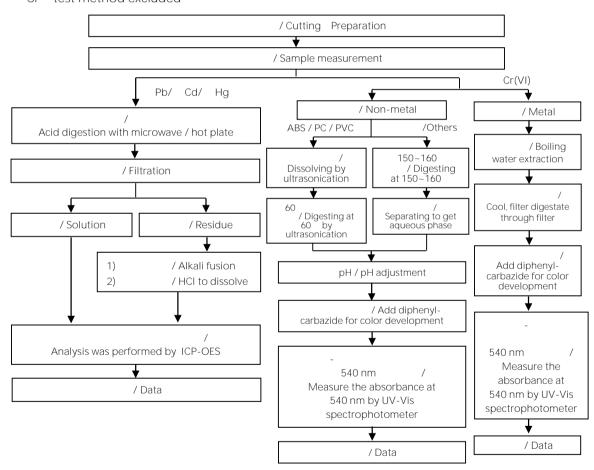
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart of heavy metal

These 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
/ Data

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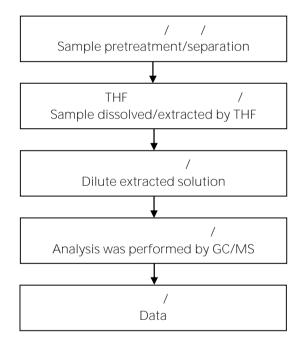
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### Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





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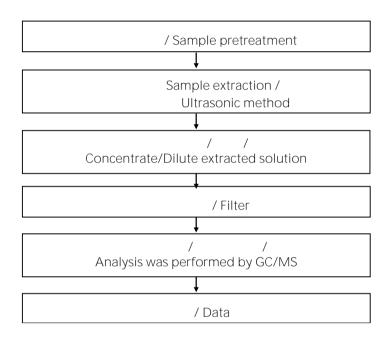
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#### / Analytical flow chart - HBCDD





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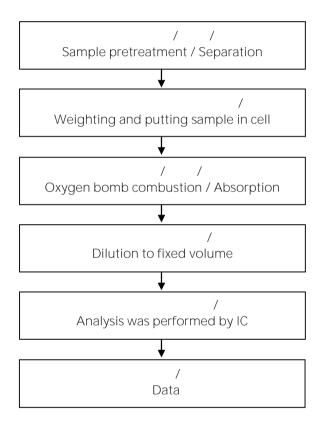
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/ Analytical flow chart - Halogen





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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

Sample pretreatment

( ) /
Sample extracted (ultrasonic extraction) by toluene solvent

/
Analysis was performed by GC/MS

/ Data



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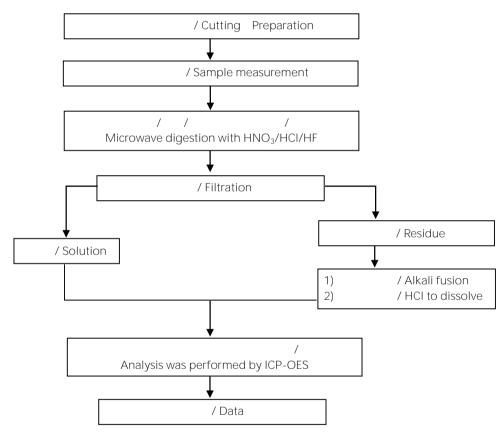
(EVERLIGHT ELECTRONICS CO., LTD.)

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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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