

(No.): ETR23C05763

(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)

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 MOLDING SERIES
	Sampling Product: 67-31A/GHC-YV1W2EZ3/2T-SGS-11-Jan-2024
PRODUCT INFORMATION	
Product/component Sample	PLCC with Lens
description	
Quantity (numbers or weight)	0.0288 g
EVERLIGHT P/N	SMD C TYPE MOLDING SERIES
	Sampling Product: 67-31A/GHC-YV1W2EZ3/2T
Product Lot No	T231205K18Q428
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

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





PIN CODE: 44F85869

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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).)

PAHs

(As:

(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)

(A fPS) 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 : (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)

(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))		mg/kg	2	n.d.			100
(Pb) (Lead (Pb))	(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	5.58			1000



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			MDL				
(Test Items)	(Method)	(Unit)			(Result)		(Limit)
				No.1	No.2	No.3	
	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.)						
	IEC 62321-7-2: 2017	mg/kg	8	n.d.			1000
	(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.			-
		mg/kg	5	n.d.			-
(Pentabromobiphenyl)		mg/kg	5	n.d.			-
		mg/kg	5	n.d.			-
		mg/kg	5	n.d.			-
		mg/kg	5	n.d.			-
	IEC 62321-6: 2015	mg/kg	5	n.d.			-
	/ /	mg/kg	5	n.d.			-
	(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)	1	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.			-
		mg/kg	5	n.d.			-
(Octabromodiphenyl ether)		mg/kg	5	n.d.			-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.			-
,		mg/kg	5	n.d.			-
(Sum of PBDEs)		mg/kg	-	n.d.			1000

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	<u></u>		N ADI				
(Toot Itoma)	(N 4 a + la a al.)	((Upit)		(Result)		(Limit)
(Test Items)	(Method)	(Unit)		No.1	No.2	No.3	(Limit)
(BBP) (Butyl benzyl		mg/kg	50	n.d.			1000
phthalate (BBP))		ing/kg	00	Ti.G.			1000
(DBP) (Dibutyl		mg/kg	50	n.d.			1000
phthalate (DBP))							
(2-) (DEHP) (Di-		mg/kg	50	n.d.			1000
(2-ethylhexyl) phthalate (DEHP))							
(DIBP) (Diisobutyl		mg/kg	50	n.d.			1000
phthalate (DIBP))							
(DIDP) (Diisodecyl		mg/kg	50	n.d.			-
phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1)							
(DINP) (Diisononyl		mg/kg	50	n.d.			-
phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0)							
(DNOP) (Di-n-octyl	IEC 62321-8: 2017	mg/kg	50	n.d.			-
phthalate (DNOP)) (CAS No.: 117-84-	/						
0)	(With reference to IEC						
(DNPP) (Di-n-	62321-8: 2017, analysis was	mg/kg	50	n.d.			-
pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	performed by GC/MS.)						
(DNHP) (Di-n-hexyl		mg/kg	50	n.d.			-
phthalate (DNHP)) (CAS No.: 84-75-3)							
(2-) (DMEP)		mg/kg	50	n.d.			-
(Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)							
(DMP) (Dimethyl		ma/ka	50	n.d.			
phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	H.G.			_
(DIOP) (Diisooctyl		mg/kg	50	n.d.			-
phthalate (DIOP)) (CAS No.: 27554-26-							
3)							
(DNNP) (Di-n-		mg/kg	50	n.d.			-
nonyl phthalate (DNNP)) (CAS No.:							
84-76-4)							

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(Test Items)	(Method)	(Unit)	(Unit) MDL (Result) No.1 No.2 No.3			(Limit)	
(est itsins)	(iviotilou)	(31111)			No.1 No.2 No.3		
(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)	50 511 4 4500 004 4	mg/kg	50	520			-
(CI) (Chlorine (CI)) (CAS No.: 22537- 15-1)	BS EN 14582: 2016 (With	mg/kg	50	n.d.			-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)	reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.			-
(I) (lodine (I)) (CAS No.: 14362-44-8)	репоппец вутс.)	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	mg/kg	0.01	n.d.			-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
(Be) (Beryllium (Be)) (CASNo.: 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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(Test Items)	(Method)	(Method) (Unit)		(Result)			(Limit)
(1.661.16)	(iviotilo d)	(31111)		No.1	No.2	No.3	(=)
(Polycyclic Aromatic Hydrocarbons) (PAHs)							
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.			
(e) (Benzo[e]pyrene) (CASNo.: 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)	// // // // // // // // // // // // //	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)	репоппеа ву вслиз.,	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.4	(Limit)
(Be) (Beryllium (Be)) (CASNo.: 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 μ g/cm ² . / The sample is positive for Cr(VI) if the Cr(VI)
	concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
	b. n.d. ($0.10\mu g/cm^2$) . / The sample is negative for Cr(VI) if Cr(VI) is
	n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
	c. 0.10 0.13 µg/cm² ./The result between 0.10 µg/cm² and
	0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
7.	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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PAHs Remark

(AfPS): GSPAHs

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

	1 (Category 1)	2 (Category 2)	3 (Category 3)
(Parameter)	intended to be placed in the mouth, or materials in toys	1 30 () (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-	



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PFAS Remark					
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)	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-NH ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
PFOS, &	$ (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

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307-35-7

(POSF)

Perfluorooctane sulfonyl fluoride (POSF)

(PFO S-Mg) 91036-71-4

Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)

(PFO S-Na) 4021-47-0

Perfluorooctanesulfonic acid, sodium

salt (PFOS-Na)

Piperidine

335-93-3

PFOA, (PFOA, its salts & derivatives)

(PFOA-F) 335-66-0

Perfluorooctanoyl fluoride (PFOA-F)

(A PFO) 3825-26-1

Ammonium pentadecafluorooctanoate

(APFO)

(PFOA-Li) 17125-58-5

Lithium perfluorooctanoate (PFOA-Li)



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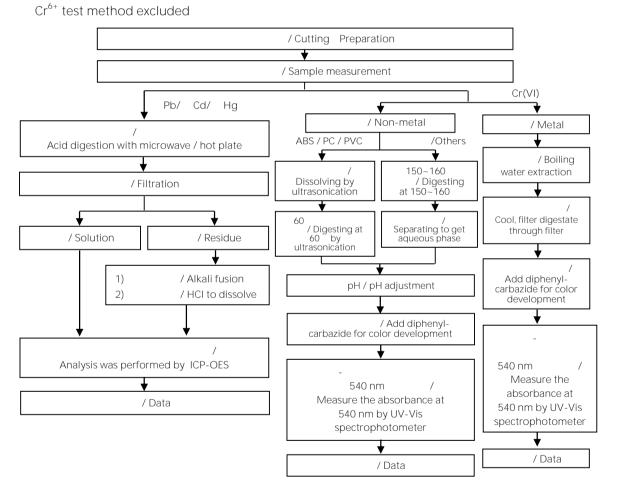
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/ Analytical flow chart of heavy metal

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





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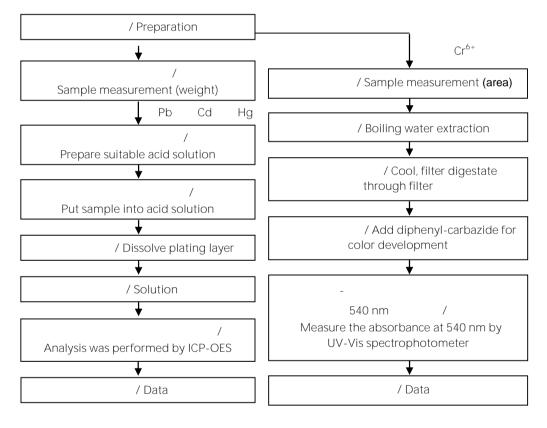
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/ Flow chart of stripping method for metal analysis

/ 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
/ Data



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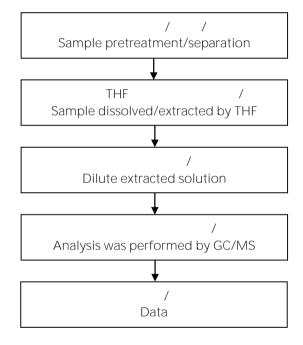
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





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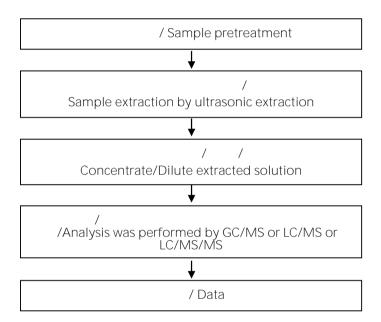
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(/ / /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)





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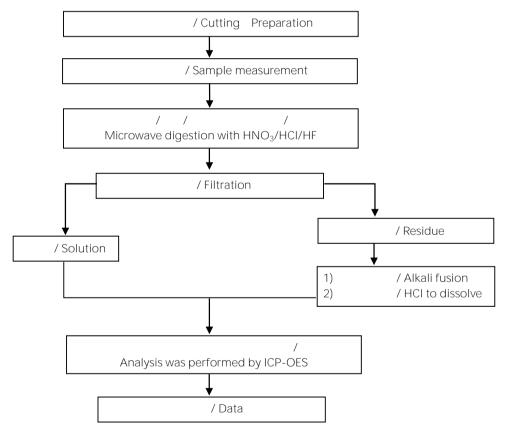
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() / Analytical flow chart of elements (Heavy metal included)

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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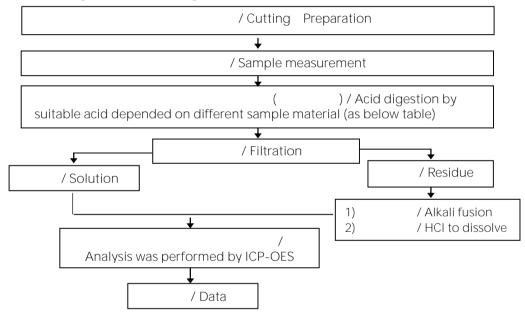
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ICP-OES

(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 , HCI
/ Others	/ Added appropriate reagent to total digestion

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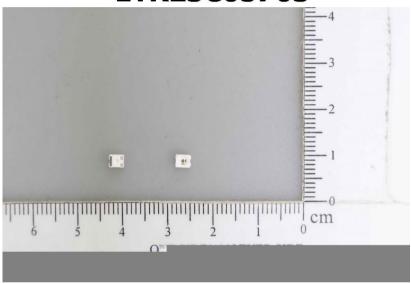
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(The tested sample / part is marked by an arrow if it's shown on the photo.)

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* (End of Report) **