

Test Report

Number : TWNC01408719

Issue Date : Nov 18, 2025

Applicant: **Quelighting Corporation**

19F-1, No 398, Huanbei Rd., Zhongli City, Taoyuan City 320675,

Taiwan, R.O.C.

Sample Description:

One (1) Group of Submitted Samples Said To Be:

Sample Description : UV LED Style / Item No. : QLUV Series Country of Origin : Taiwan : Global Goods Exported to Date Sample Received : Nov 07, 2025 Date Test Started : Nov 07, 2025

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Authorized By:

On behalf of Intertek Testing Services

Taiwan Limited

Matt Wang

General Manager

Signed by:

Thomas Chou Manager



報告查詢 Report Verification









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Test Result Summary:

Test Result Summary:		, , , , , , , , , , , , , , , , , , , ,		
<u>Test Item</u>		Test Method	<u>Result</u>	<u>RL</u>
	<u>Unit</u>		White electronic	
			<u>component</u>	
Heavy Metal		T.,,,,		
		With reference to IEC 62321-		
Cadmium (Cd) Content	ppm	5: 2013, by microwave or acid digestion and determined by	ND	2
		ICP-OES.		
		With reference to IEC 62321-		
Lead (Pb) Content		5: 2013, by microwave or acid	ND	2
	ppm	digestion and determined by		2
		ICP-OES.		
		With reference to IEC 62321-		2
Mercury (Hg) Content	ppm	4:2013+AMD1:2017, by	ND	
, , 5,		microwave or acid digestion and determined by ICP-OES.		
		With reference to IEC 62321-		8
		7-2: 2017, organic solvent was		
		used to dissolve or swell	ND	
Chromium VI (Cr(VI)) Content	ppm	sample matrix, followed by		
		alkaline digestion and		
		determined by UV-Vis		
Polybrominated Biphenyls (PI	PPc)	Spectrophotometer.		
Monobrominated Biphenyls) 			
(MonoBB)	ppm		ND	5
Dibrominated Biphenyls	ppm		ND	5
(DiBB)	PP	-		
Tribrominated Biphenyls (TriBB)	ppm		ND	5
Tetrabrominated Biphenyls		1		
(TetraBB)	ppm	With reference to IEC 62321-	ND	5
Pentabrominated Biphenyls	ppm	6: 2015, by solvent extraction	ND	5
(PentaBB) Hexabrominated Biphenyls	+ ''	and determined by GC-MS and		
(HexaBB)	ppm	further HPLC-DAD confirmation when necessary.	ND	5
Heptabrominated Biphenyls	ppm	when necessary.	ND	5
(HeptaBB) Octabrominated Biphenyls	I- P			
(OctaBB)	ppm		ND	5
Nonabrominated Biphenyls	W	1	ND	-
(NonaBB)	ppm]	ND	5
Decabrominated Biphenyl	ppm		ND	5
(DecaBB)				









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Test Item	<u>Unit</u>	Test Method	Result White electronic component	<u>RL</u>
Polybrominated Diphenyl Ether	s (PBDE	5)		
Monobrominated Diphenyl Ethers (MonoBDE)	ppm	With reference to IEC 62321-6: 2015, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary.	ND	5
Dibrominated Diphenyl Ethers (DiBDE)	ppm		ND	5
Tribrominated Diphenyl Ethers (TriBDE)	ppm		ND	5
Tetrabrominated Diphenyl Ethers (TetraBDE)	ppm		ND	5
Pentabrominated Diphenyl Ethers (PentaBDE)	ppm		ND	5
Hexabrominated Diphenyl Ethers (HexaBDE)	ppm		ND	5
Heptabrominated Diphenyl Ethers (HeptaBDE)	ppm		ND	5
Octabrominated Diphenyl Ethers (OctaBDE)	ppm		ND	5
Nonabrominated Diphenyl Ethers (NonaBDE)	ppm		ND	5
Decabrominated Diphenyl Ether (DecaBDE)	ppm		ND	5
Phthalates				
Di(2-ethylhexyl) Phthalate (DEHP)	ppm	With reference to IEC 62321-8:2017, by solvent extraction and determined by GC-MS.	ND	50
Dibutyl Phthalate (DBP)	ppm		ND	50
Benzyl Butyl Phthalate (BBP)	ppm		ND	50
Diisobutyl Phthalate (DIBP)	ppm		ND	50

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected

RL= Reporting limit, quantitation limit of analyte in sample

Responsibility of Chemist: Andy Yu/ Vita Fu

Date Sample Received : Nov 07, 2025

Test Period Nov 07, 2025 to Nov 14, 2025





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RoHS Limit

Restricted Substances	<u>Limits</u>
Cadmium (Cd) content	0.01% (100ppm)
Lead (Pb) content	0.1% (1000ppm)
Mercury (Hg) content	0.1% (1000ppm)
Chromium VI (Cr(VI)) content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000ppm)
Di(2-ethylhexyl) Phthalate (DEHP)	0.1% (1000ppm)
Dibutyl Phthalate (DBP)	0.1% (1000ppm)
Benzyl Butyl Phthalate (BBP)	0.1% (1000ppm)
Diisobutyl Phthalate (DIBP)	0.1% (1000ppm)

The limits were quoted from Annex II of 2011/65/EU and Amendment (EU) 2015/863 for homogeneous material.









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Measurement Flowchart:

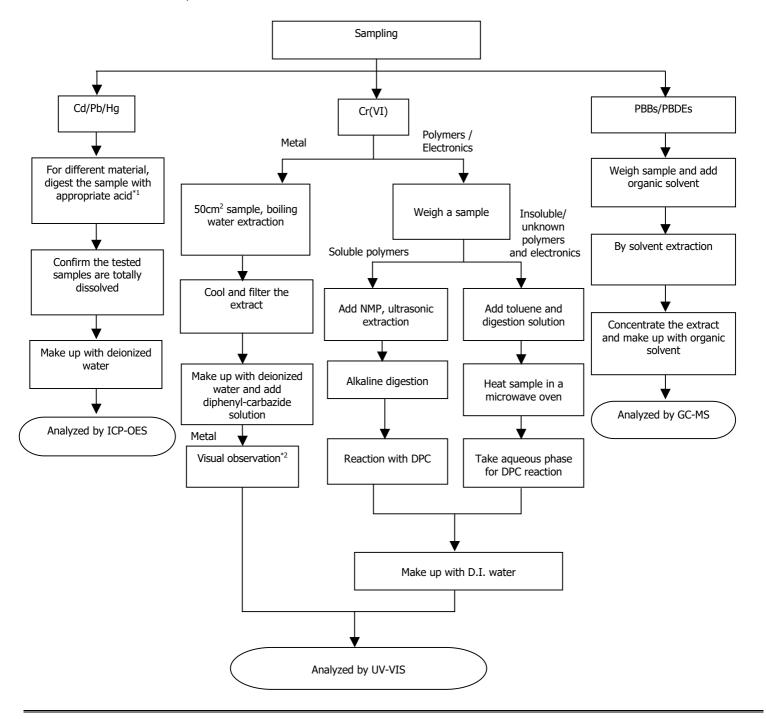
Test for Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Content

Reference Standard: Cd/Pb: IEC 62321-5:2013; Hg: IEC 62321-4:2013+AMD1:2017;

Chromium (VI): IEC 62321-7-1:2015 (boiling water extraction);

Chromium (VI): IEC 62321-7-2:2017 (solvent and alkaline extraction);

PBBs/PBDEs: IEC 62321-6:2015











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Remarks:

*1: List of Appropriate Acid:

Material	Acid Added for Digestion	
Polymers	HNO ₃ ,HCl,HF,H ₂ O ₂ ,H ₃ BO ₃	
Metals	HNO ₃ ,HCl,HF	
Electronics	HNO ₃ ,HCl,H ₂ O ₂ ,HBF ₄	

*2: If sample solution is significantly more intense than $0.13~\mu g/cm^2$ equivalent comparison standard, Chromium VI would be determined as detected, the result of visual observation is positive.





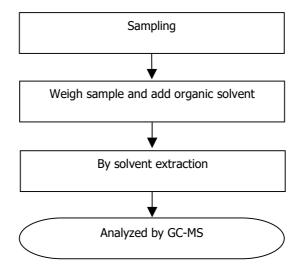


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Measurement Flowchart:

Test for Phthalates Content

Reference Method: IEC 62321-8:2017





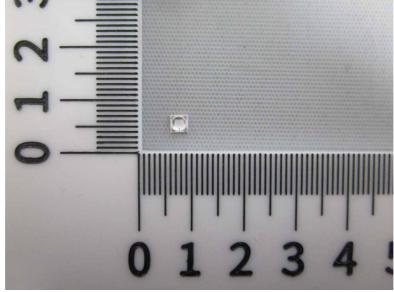




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Sample photo:





End of Report

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