No. SIT250218560101RR

TEST REPORT

Customer information	Client	QILSTE (HongKong) Technology Co., Ltd
	Address	Room 603E, Humon Commercial Building, 31 Tokyo Street, Cheung Sha Wan, Kowloon
Sample information	Name of sample	LED
	Test Model No.	HX-XXX
	Trade mark	QILSTE
	Lot number	----
	Manufacturer	QILSTE (HongKong) Technology Co., Ltd
	Address	Room 603E, Humon Commercial Building, 31 Tokyo Street, Cheung Sha Wan, Kowloon
Test information	Sample received	February 18, 2025
	Testing date	February 18, 2025 to February 21, 2025
	Test sort	Commission Test
	Requested/item	RoHS directive 2011/65/EU Annex II amending Annex(EU)2015/863. (1) Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content. (2) Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Disobutyl phthalate(DIBP) Content.
	Standard/ Foundation	(1)With reference to IEC 62321-3-1:2013, scanning by XRF Spectroscopy Chemical test method: With reference to IEC 62321-5:2013, determination of Cadmium, lead by ICP With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP With reference to IEC 62321-7-2:2017&IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric method. With reference to IEC 62321-6:2015 determination of PBBs and PBDEs by GC-MS (2)With reference to IEC 62321-8:2017, and analysis was performed by GC-MS.
	Conclusion	(1)The tested sample complied with RoHS directive (2011/65/EU). (2)The tested part of submitted sample complied with directive (EU)2015/863
Remark	----	

Tested By: Vicky Date: 2025/02/21

Checked By: Alex Peng Date: 2025/02/21

Approved By: APPROVED Date: 2025/02/21

Test result：1. Structural parts

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	Red plastic	Cd	P	N.D.	＜100	P
		Cr(VI)	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	P	N.D.	＜1000	P
		PBDEs	P	N.D.	＜1000	P
2	Silvery metal feet	Cd	P	N.D.	＜100	P
		Cr(VI)	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	/	/	＜1000	/
		PBDEs	/	/	＜1000	/

Remark：

1 It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF。

2 Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg),UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value With reference to IEC 62321-8:2017(unit:mg/kg)

3.

Element	Polymer	Metal	Composite Materials
Cd	P≤70-3σ＜D＜130+3σ≤F	P≤70-3σ＜D＜130+3σ≤F	P≤50-3σ＜D＜150+3σ≤F
Pb	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Hg	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Br	P≤300-3σ＜D	----	P≤250-3σ＜D
Cr	P≤700-3σ＜D	P≤700-3σ＜D	P≤500-3σ＜D

P = PASS； F = FAIL； D = DETECTED;

4. mg/kg = ppm; N.D. = NOT DETECTED（＜MDL）Pb, Cd, Hg,Cr(VI): 2mg/kg; PBBs, PBDEs: 5mg/kg

5. With reference to IEC 62321:-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative.

Positive = Presence of Cr(VI) coating, Negative = Absence of Cr(VI) coating

6 *According to Annex Ⅲ of European Council Directive 2011/65/EU, Lead in copper alloy containing up to 4% lead by weight.

7 **According to Annex Ⅲ of European Council Directive 2011/65/EU, Lead in steel alloy containing up to 0.35% lead by weight.

8 #According to Annex Ⅲ of European Council Directive 2011/65/EU, Cadmium and its compounds in electrical contacts is exempted.

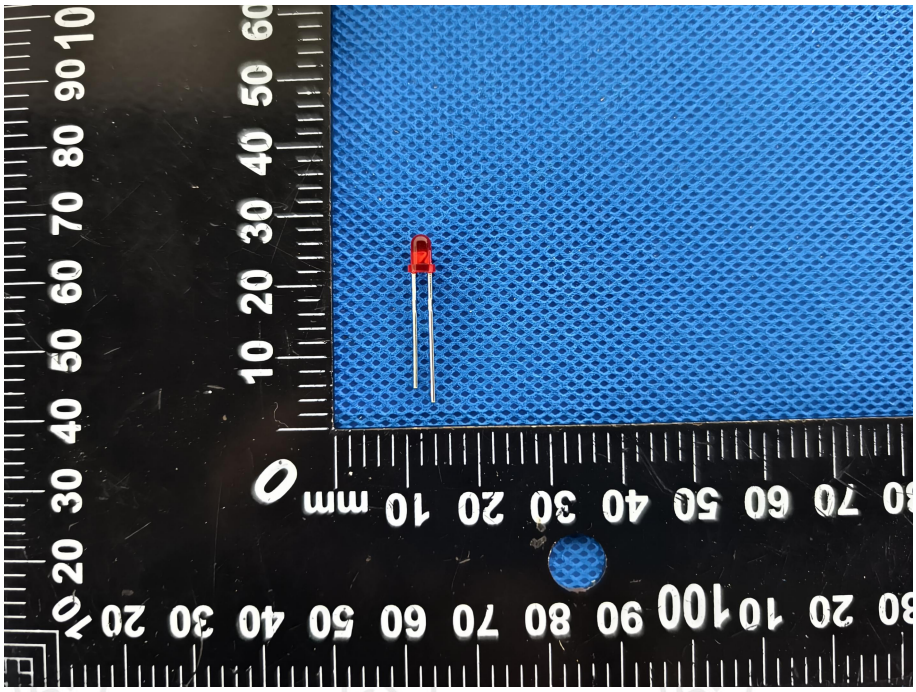
(3) DEHP, BBP, DBP, DIBP

ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)	MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	1		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	30	1000

Note: MDL = Method Detection Limit, N.D.=not detected (<Method Detection Limit).

Sample photo

Appearance photograph of EUT



List of apparatus

No.	Name	Model	Calibration Valid Date	USE(√)
1	ICP-OES	VISTA-MPX	2025/06/28	√
2	GC-MS	5975i	2025/06/16	√
3	UV-Vis	Lambda 25	2025/06/16	√
4	XRF	EDX3000B	2025/06/22	√

****** END OF REPORT ******

Statement:

1.The test report is considered invalidated without approval signature.

2.The result(s) shown in this report refer only to the sample(s) tested.

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