

Page 1 of 18 Report No.: LCSA082322060R

Verification Report

Applicant: **NEKO LIGHTING AG**

Address : Kreuzstrasse 2, CH-8008 Zürich, Switzerland

Factory : NEKO LIGHTING AG

Address Nairui Industrial Park, No.9, Xin Le Wu Road, Ma'an Town, Huicheng

District, Huizhou, Guangdong, China

Report on the submitted samples said to be:

Sample Name(s) : Downlight

Trade Mark : Π

Part No. : See Page 2

Sample Received Date : September 21, 2022

Testing Period : September 21, 2022 ~ October 10, 2022

Date of Report : October 10, 2022

Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

Matian Street, Guangming District, Shenzhen, Guangdong, China

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	PASS

Signed for and on behalf of LCS



Young/Laboratory Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China





Part No.:

FF1, FF2, FF3, FF4, FF5, FFT5, FA5, FW5, FF10, FFT10, FA10, FW10, FF3-FS1, FFT3-FS1, FF6-FS2, FFT6-FS2, T75-7.5W, T75-11W, T100-9W, T100-13W, T150-18W, T150-25W, T200-25W, T200-38W, T200-52W, TS65-7.5W, TS65-11W, TS100-9W, TS100-13W, TS150-18W, TS150-25W, TS200-25W, TS200-38W, T100L-12W, T150L-18W, JADE 55-6W, JADE 68-7.5W, JADE 68-11W, JADE 68-8.5W, E3D-08T, E4D-08T, E4D-10T, E4D-13T, E6D-13T, E6D-20T, E6D-30T, E8D-13T, E8D-20T, E8D-30T, E8D-40T, E3F-07S2, E3R-07S2, E4F-13S2, E4R-13S2, E4F-13SN, E4R-13SN, E6F-20S2, E6R-20S2, E6F-30S2, E6R-30S2, E6F-20SN, E6R-20SN, E6F-30SN, E8F-20S2, E8R-20S2, E8F-30S2, E8R-30S2, E8F-20SN, E8R-20SN, E8F-30SN, E8R-30SN, E4F-13SN-TW, E4R-13SN-TW, E6F-20SN-TW, E6R-20SN-TW, E6F-30SN-TW, E6R-30SN-TW, E8F-20SN-TW, E8F-20SN-TW, E8F-30SN-TW, E8R-30SN-TW, xyz45-4W, xyz68-7.5W, xyz68-11W, xyz68-8.5W, ERF100-13W, ERFT00-13W, ERF100-18W, ERFT100-18W, ESF100-13W, ESFT100-13W, ESF100-18W, ESFT100-18W, xyz100-13W, xyz100-18W, xyz125-18W, xyz125-25W, xyz150-25W, xyz150-38W, S45xyz-4W, S68xyz-7.5W, S68xyz-11W, S68xyz-8.5W, S100xyz-13W, S125xyz-18W, S150xyz-25W, V68-13W, V68W-13W, V68-18W, V68W-18W, V90-13W, V90-18W, SIGN35-G, SIGN35-H SIGN45-G, SIGN45-H, K1X30-4W, K1X55-9W, K1X55-9W-10D, K1X70-13W, K1X70-18W, Twins-R, Twins-S, EVO50-R7, EVO50-R10, EVO50-R20, EVO50-R7(10D), K50-R7, K50-8.5W, K50-B1, G50-R5, G50-R5(10D), M3-7.5W, M3-11W, M4-9W, M4-13W, M4 Pro-7W, M4 Pro-13W, M4 Pro-18W, M4 Pro-12W-DW, RA50-4W, RF50-4W, SA50-4W, SF50-4W, RA75-8.5W, RF75-8.5W, SA75-8.5W, SF75-8.5W, RA75-7.5W, RF75-7.5W, SA75-7.5W, SF75-7.5W, RA75-11W, RF75-11W, SA75-11W, SF75-11W, RA100-13W, RF100-13W, SA100-13W, SF100-13W, RA100-18W, RF100-18W, SA100-18W, SF100-18W, G4R-08T Clear, G4R-08T Diffused, G4R-10T Clear, G4R-10T Diffused, G5R-10T Clear, G5R-10T Diffused, G5R-13T Clear, G5R-13T Diffused, G6R-13T Clear, G6R-13T Diffused, G7R-13T Clear, G7R-13T Diffused, G6R-20T Clear, G6R-20T Diffused, G7R-20T Clear, G7R-20T Diffused, G8R-20T Clear, G8G-20T Diffused, G8R-30T Clear, G8R-30T Diffused, T6-20T, T6-30T, C6F-10S, C6R-10S, CS6F-10S, CS6R-10S, C6F-20S, C6R-20S, CS6F-20S, CS6R-20S, C8F-20S, C8R-20S, CS8F-20S, CS8R-20S, C8F-30S, C8R-30S, CS8F-30S, CS8R-30S, TA5, TA6, TA7, TA8, TA9, TSA1, TSA2, TSA3, KA5, KA6, KA7, KA8, KA9, KSA1, KSA2, KSA3, KA5-EI, KA6-EI, KA7-EI, KA8-EI, KA9-EI, KSA1-EI, KSA2-EI, KSA3-EI



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Add: 901. No.40 Building. Xialang Industrial Zone.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China



Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives

<u>Test method:</u> With reference to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Sampla	Sample			Res	ults			Date of sample
Sample No.	Sample Description	Cd	Pb	Hg	Cr▼	В	r▼	submission/
	•	Cu	10	ng .		PBBs	PBDEs	Resubmission
1	Gray silver plated metal shell	BL	BL	BL	BL	/	/	2022-09-21
2	Silver metal screw	X	X	BL	BL	/	1	2022-09-21
3	Black soft plastic pad	BL	BL	BL	BL	BL	BL	2022-09-21
4	Grey plastic shell	BL	BL	BL	BL	BL	BL	2022-09-21
5	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-21
6	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-21
7	Colorless transparent plastic lampshade	BL	BL	BL	BL	BL	BL	2022-09-21
8	Yellow body (LED)	BL	BL	BL	BL	BL	BL	2022-09-21
9	Silver metal plate with white coating	BL	BL	BL	BL	/	/	2022-09-21
10	White plastic frame	BL	BL	BL	BL	X	X	2022-09-21
立语 ^的	Silver metal screw	OL	La BL	BL	BL	ting Nap	/	2022-09-21
12	Black plastic wire cover (outside)	BL	BL	BL	BL	BL	BL	2022-09-21
13	Black plastic cable fastener	BL	BL	BL	BL	BL	BL	2022-09-21
14	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-21
15	Tin solder	BL	BL	BL	BL	/	/	2022-09-21
16	Silver metal core	X	BL	BL	BL	/	/	2022-09-21
17	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-21
18	Black plastic port housing	BL	BL	BL	BL	BL	BL	2022-09-21
19	Black plastic fixture	BL	BL	BL	BL	X	X cs	2022-09-21
20	Silver metal port housing	BL	OL	BL	BL	/	/	2022-09-21
21	Silver metal contact pin	BL	OL	BL	BL	/	/	2022-09-21
22	Black plastic sleeve	BL	BL	BL	BL	BL	BL	2022-09-21
23	Silver metal sleeve	X	BL	BL	BL	/	/	2022-09-21
24	Black plastic wire cover (outside)	BL	BL	BL	BL	BL	BL	2022-09-21
25	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-21
26	Copper metal core	BL	OL	BL	BL	Mill How Yap	/	2022-09-21



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	(B)	THE STILL	Page 4	of 18		Repo	ort No.: LCS	SA082322060R
Sample	Sample Sample	Lith Testing	Lau	Res	sults	sting Lav		Date of sample
No.	Description	Cd	Pb	Hg	Cr▼	PBBs	Br▼ PBDEs	submission/ Resubmission
27	Gold wire card	OL	BL	BL	BL	/ /	/ /	2022-09-21
28	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-21
29	Silver metal with white coating	BL	BL	BL	BL	/	/	2022-09-21
30	Silver metal sheet	BL	BL	BL	X	/	/	2022-09-21
31	Black silver plated metal sheet	BL	BL	BL	X	/	/	2022-09-21
32	Silver metal screw	X	BL	BL	BL	/	1/1/1/1	2022-09-21
33	Silver metal with white coating	BL	BL	BL	BL	/	Sol res	2022-09-21
34	Silver metal shell	BL	BL	BL	BL	/	/	2022-09-21
35	Silver metal ring	X	BL	BL	BL	/	/	2022-09-21
36	Colorless transparent glass sheet	BL	BL	BL	BL	BL	BL	2022-09-21
37	Black plastic with silver coating	BL	BL	BL	BL	BL	BL	2022-09-21
38	Red plastic washer	BL	BL	BL	BL	BL	BL	2022-09-21
39	Black printed silver label adhesive	BL	BL	BL	BL	BL	BL	2022-09-21
40	Silver metal with white coating	BL	BL	BL	BL	sting Vab	/	2022-09-21
41	Black plastic fixture	BL	BL	BL	BL	BL	BL	2022-09-21
42	Silver metal plate with white coating	BL	BL	BL	BL	/	/	2022-09-21
43	Silver metal screw	X	BL	BL	BL	/	/	2022-09-21
44	Silver metal gasket	BL	OL	BL	BL	/	/	2022-09-21
45	Silver metal spring	BL	BL	BL	X	/	/	2022-09-21
46	Black silver plated metal shell	BL	X	BL	BL	/	/	2022-09-21
47	Black plastic sleeve	BL	BL	BL	BL	BL	BL	2022-09-21
48	White translucent dry adhesive	BL	BL	BL	BL	BL	BL W	2022-09-21
49	Yellow body (LED)	BL	BL	BL	BL	BL	BL	2022-09-21
50	Colorless transparent plastic lampshade	BL	BL	BL	BL	BL	BL	2022-09-21
51	Silver metal with brown coating	BL	BL	BL	BL	/	/	2022-09-21
52	Silver metal with gray coating	BL	BL	BL	BL	/	/	2022-09-21
53	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-21
54	Silver metal bolt	BL	BL	BL	X	/	/	2022-09-21
55	Black silver plated metal screw	BL	BL	BL	BL	则股份	/	2022-09-21



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Titlestin	Comple V6	Tithing Testing		Res	sults		Date of sample	
Sample No.	Sample Description	Cd	Pb	Па	Cr▼	В	r▼	submission/
110.	Description	Ca	PU	Hg	Cr	PBBs	PBDEs	Resubmission
56	Black silver plated metal rivet	BL	BL	BL	X	/	/	2022-09-21
57	Black silver plated metal spring	BL	BL	BL	BL	/	/	2022-09-21
58	Black silver plated metal sheet	BL	BL	BL	X	/	/	2022-09-21
59	Silver metal plate with white coating	BL	BL	BL	BL	/	/	2022-09-21
60	White plastic sleeve	BL	BL	BL	BL	X	X	2022-09-21
61	Black plastic shell	BL	BL	BL	BL	BL	BL	2022-09-21
62	Silver colored metal screw	X	BL	BL	X	/	100	2022-09-21
63	White plastic support	BL	BL	BL	BL	BL	BL	2022-09-21

Note:

Results were obtained by XRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg), UV-Vis(for Cr(VI)) and GC-MS(for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).

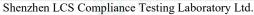
Element	Polymers	Metals	Composite material
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Pb estir	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>
Br	BL≤(300-3σ) <x< td=""><td>N/A</td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>	N/A	BL≤(250-3σ) <x< td=""></x<>

Remark:

- BL= Below Limit
- OL= Over Limit
- X= The range of needing to do further testing
- 3σ= The reproducibility of analytical instruments
- N/A= Not applicable
- LOD= Detection limit
- The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
- ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.



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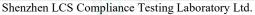
RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury(Hg)	1000
Hexavalent Chromium(Cr(VI))	1000
Polybrominated biphenyls(PBBs)	1000
Polybrominated diphenylethers(PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000 THE PARTY LAD
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.











B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, DBP, BBP, DEHP & DIBP content

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES) or Atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Phthalates(DBP, BBP, DEHP &DIBP) Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of Lead(Pb) & Cadmium(Cd)

Tested Items	MDL	³ Fap	N.	Limit		
rested reems	(mg/kg)	(2)	(20)	(21)	(26)	(mg/kg)
Lead(Pb) Content	5	N.D.	12456#1	59	N.D.	1000

Tested Items	MDL		ults /kg)	Limit	
1 000000 1000000	(mg/kg)	(44)	(46)	(mg/kg)	
Lead(Pb) Content	5	N.D.	N.D.	1000	

Tested Items	MDL	· · · · · · · · · · · · · · · · · · ·	位测版》 Testing Lab	Results (mg/kg)	15	工工讯检测	Limit
100	(mg/kg)	(2)	(11)	(16)	(23)	(27)	(mg/kg)
Cadmium(Cd) Content	5	N.D.	N.D.	N.D.	N.D.	N.D.	100

Tested Items	MDL			ults /kg)		Limit
Tested Items	(mg/kg)	(32)	(35)	(43)	(62)	(mg/kg)
Cadmium(Cd) Content	5	N.D.	N.D.	N.D.	N.D.	100



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2) The test results of Hexavalent Chromium(Cr(VI)(for coating on metal)

Tested Items	MDL			ults cm²)		Limit
100000	(μg/cm²)	(30)	(31)	(45)	(54)	(μg/cm²)
Hexavalent Chromium(Cr(VI)) Content★	0.10 (LOQ)	N.D.	N.D.	N.D.	N.D.	1000

Tested Items	MDL		Results (μg/cm ²)		Limit
Tested Teens	(μg/cm ²)	(56)	(58)	(62)	(μg/cm ²)
Hexavalent Chromium(Cr(VI)) Content★	0.10 (LOQ)	N.D.	N.D.	N.D.	1000

3) The test results of Phthalates(DBP, BBP, DEHP &DIBP)

Tested Items	MDL	Results (mg/kg)					Limit
	(mg/kg)	3	12	24	25	28	(mg/kg)
Dibutyl Phthalate(DBP) Content	100	N.D.	N.D.	N.D.	271	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg) 4+7+8+10+13+14	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg) 17+18+19+22+36+37	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000



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Tested Items	MDL (mg/kg)	Results (mg/kg) 38+39+41+47+48+49	Limit (mg/kg)	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000	
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000	
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000	
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000	

Tested Items	MDL (mg/kg)	Results (mg/kg) 50+60+61+63	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000







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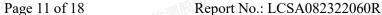
4) The test results of PBBs & PBDEs

Tested Items	MDL (mg/kg)		Limit		
		(10)	(19)	(60)	(mg/kg)
Polybrominated Biphenyls(PBBs) Conte	nt			-	
Monobromobiphenyl	5	N.D.	N.D.	N.D.	/
Dibromobiphenyl	5	N.D.	N.D.	N.D.	/
Tribromobiphenyl	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5 11	N.D.	N.D.	N.D.	Apply Lay
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	/
Octabromobiphenyl	5	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	/
Decabromodiphenyl	5	N.D.	N.D.	N.D.	/
Total content	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers(PBDEs)) Content		可检测股份		· · · · · · · · · · · · · · · · · · ·
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	ST LOLTES
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	如股份/
Nonabromodiphenyl ether	5 11	N.D.	N.D.	N.D.	sting Lab
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	/
Total content	/	N.D.	N.D.	N.D.	1000



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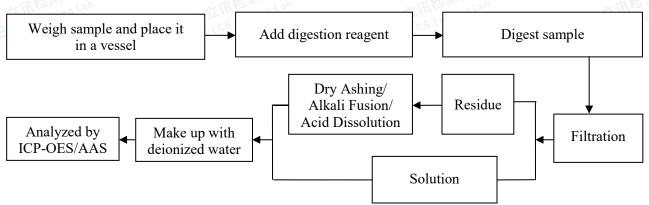


Note:

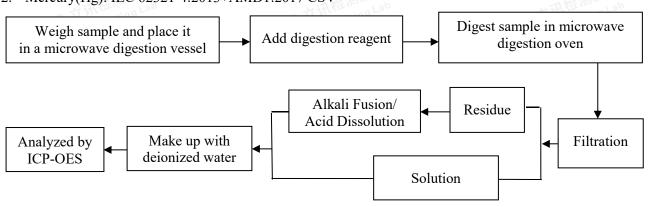
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL or LOQ)
- mg/kg = milligrams per kilogram
- LOQ = Limit Of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- \star = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13μg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than $0.10\mu g/cm^2$). The sample coating is considered a non- Cr(VI) based coating.
 - c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination.
- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- According to customer's requirement, only the appointed materials have been tested.
- #1 According to RoHS Directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- According to the customer's statement, the materials of points $1 \sim 63$ in this report are consistent with tho se of points $1 \sim 63$ in LCSA082322058R. The raw data are directly quoted, and the referenced samples a re not tested this time.

Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013



2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV





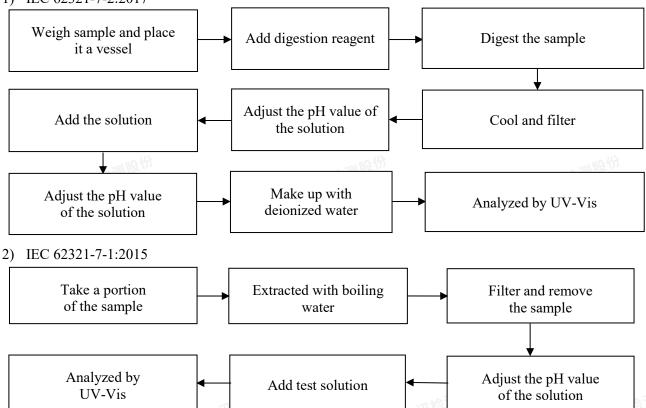
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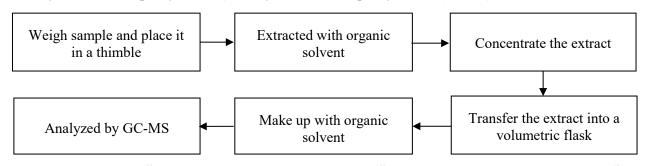


3. Hexavalent Chromium(Cr(VI))

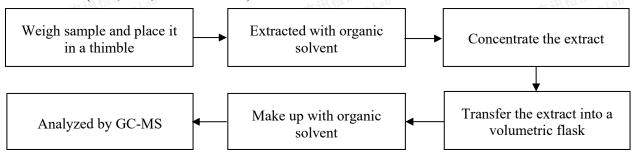
1) IEC 62321-7-2:2017



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs): IEC 62321-6:2015



5. Phthalates(DBP, BBP, DEHP & DIBP): IEC 62321-8:2017





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The photo(s) of the sample







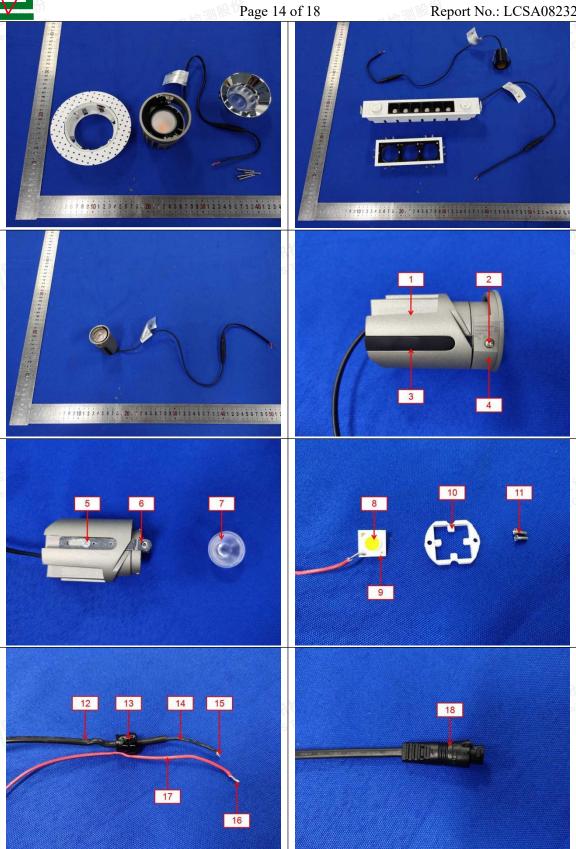
Report No.: LCSA082322060R



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Statement:

- The test report is invalid without the signature of the approver and the special seal for the company's report;
- The company name, address and sample information shown on the report were provided by the applicant 2. who should be responsible for the authenticity which are not verified by LCS;
- The test results in this report are only responsible for the tested samples;
- Without written approval of LCS, this report can't be reproduced except in full;



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5. In case of any discrepancy between the corresponding Chinese and English contents in the test report, the English version shall prevail.

*** End of Report ***























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