

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 1 of 10

Suzhou Armocon Technology Co.,Ltd
No 77 SuHong Middle Road SIP Jiangsu China

This report supersedes SH1220802-35028E which was generated on August 24, 2022, as the requirement by client, the revised parts in this report are in black and italics.

Report on the submitted samples said to be:

Sample Name: Handheld Massager
Style/Item No.: LELO DOT
Brand: LELO
Sample Receiving Date: August 02,2022
Testing Period: August 02,2022 - August 18,2022
Result: Please refer to next page(s).

Signed for and on behalf of

BACL



Checked by: _____
Jenifer Yu

Approved by: _____
Fedor Zhang

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 2 of 10

Summary of Test Result:

TEST REQUEST

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

A.1 XRF screening test

A.2 Wet Chemical Testing

A.2.1 Total Lead content

A.2.2 Chromium VI (CrVI) content

A.2.3 PBBs & PBDEs content

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

CONCLUSION

Pass

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Please refer to next page(s).

Please refer to next page(s).

Please refer to next page(s).

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 3 of 10

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)	<i>Lilac silicone(shell,Handheld Massager)</i>	BL	BL	BL	BL	BL
(2)	Golden printed beige plastic(shell,Handheld Massager)	BL	BL	BL	BL	BL
(3)	White plastic(inner shell,Handheld Massager)	BL	BL	BL	BL	BL
(4)	Transparent glue(holder,Handheld Massager)	BL	BL	BL	BL	BL
(5)	Green transparent glue(PCB)	BL	BL	BL	BL	BL
(6)	Silvery metal(cap,switch,PCB)	BL	BL	BL	BL	---
(7)	Beige plastic(button,switch,PCB)	BL	BL	BL	BL	BL
(8)*	Silvery metal(foil,switch,PCB)	BL	BL	BL	IN	---
(9)	Beige plastic(base,switch,PCB)	BL	BL	BL	BL	BL
(10)	Yellow body(LED,PCB)	BL	BL	BL	BL	BL
(11)	Black printed white paper with glue(sticker,PCB)	BL	BL	BL	BL	BL
(12)	Brown body(capacitor)	BL	BL	BL	BL	BL
(13)	Black body(IC)	BL	BL	BL	BL	BL
(14)*	White printed black body(resistor)	BL	BL	BL	IN	BL
(15)	Black body(resistor)	BL	BL	BL	BL	BL
(16)	Black body(diode)	BL	BL	BL	BL	BL
(17)	Silvery solder(PCB)	BL	BL	BL	BL	---
(18)*	Green printed transparent plastic(PCB)	BL	BL	BL	BL	IN
(19)	Black printed fuchsia plastic(wire jacket)	BL	BL	BL	BL	BL
(20)	Grey printed black plastic(wire jacket)	BL	BL	BL	BL	BL
(21)	Silvery metal(wire)	BL	BL	BL	BL	---
(22)*/*1	Silvery metal(socket)	OL	BL	BL	BL	---
(23)	Beige plastic(pin holder,socket)	BL	BL	BL	BL	BL
(24)	Silvery metal(pin,socket)	BL	BL	BL	BL	---
(25)	Silvery solder(socket)	BL	BL	BL	BL	---
(26)	Silvery metal(shell,motor)	BL	BL	BL	BL	---
(27)	White plastic(holder,motor)	BL	BL	BL	BL	BL
(28)	Black EVA sponge with glue(sticker,motor)	BL	BL	BL	BL	BL

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 4 of 10

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(29)	White EVA sponge with glue(sticker,connection strap,motor)	BL	BL	BL	BL	BL
(30)	Silvery metal(connection strap,motor)	BL	BL	BL	BL	---
(31)	Silvery metal(pin,motor)	BL	BL	BL	BL	---
(32)	Silvery solder(connection strap,motor)	BL	BL	BL	BL	---
(33)	Golden metal(holder,shell,motor)	BL	BL	BL	BL	---
(34)	Black plastic(shell,motor)	BL	BL	BL	BL	BL
(35)	Black magnet(core,motor)	BL	BL	BL	BL	BL
(36)	Silvery metal(gasket,motor)	BL	BL	BL	BL	---
(37)	White plastic(spacer,motor)	BL	BL	BL	BL	BL
(38)	Yellow plastic(spacer,motor)	BL	BL	BL	BL	BL
(39)	Grey plastic(spacer,motor)	BL	BL	BL	BL	BL
(40)	Black metal(gasket,motor)	BL	BL	BL	BL	---
(41)	Silvery solder(gasket,motor)	BL	BL	BL	BL	---
(42)	Silvery/coppery metal(commutator,motor)	BL	BL	BL	BL	---
(43)	Black plastic(holder,commutator,motor)	BL	BL	BL	BL	BL
(44)	Coppery metal(coil,motor)	BL	BL	BL	BL	---
(45)	Translucence plastic(gasket,motor)	BL	BL	BL	BL	BL
(46)*	Silvery metal with green coating(gear,motor)	BL	BL	BL	IN	---
(47)*	Silvery metal(shaft,motor)	BL	BL	BL	IN	---
(48)	Black printed white paper(sticker,battery)	BL	BL	BL	BL	BL
(49)	Black printed blue plastic(wrappage,battery)	BL	BL	BL	BL	BL
(50)	Yellow transparent plastic with glue(sticker,battery)	BL	BL	BL	BL	BL
(51)	Red plastic(wire jacket,battery)	BL	BL	BL	BL	BL
(52)	Grey printed black plastic(wire jacket,battery)	BL	BL	BL	BL	BL
(53)	Silvery metal(wire,battery)	BL	BL	BL	BL	---
(54)	Silvery solder(battery PCB)	BL	BL	BL	BL	---
(55)*	Green PCB(battery PCB)	BL	BL	BL	BL	IN
(56)	Silvery metal(connection strap,battery,battery PCB)	BL	BL	BL	BL	---
(57)	Black plastic(pin holder,socket)	BL	BL	BL	BL	BL
(58)	Silvery metal(gasket,socket)	BL	BL	BL	BL	---

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 5 of 10

Note:

--- = Not Applicable.

* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

*1 = According to the material declaration provided by the client, the sample of test No. 22 is exempted accordance with Annex III 6(c) of directive 2011/65/EU. The exempt items of 6(c) in Annex III of Directive 2011/65/EU: Copper alloy containing up to 4 % lead by weight.

Remark:

i Result 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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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

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.

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 6 of 10

A.2 Wet Chemical Testing

A.2.1 Total Lead content

Test method: IEC 62321-5:2013

Item	Unit	RL	Result
			(22)
Lead(Pb)	mg/kg	10	26734

A.2.2 Chromium VI (CrVI) content

Test method: IEC 62321-7-1:2015

Item	Unit	RL	Result			Limit
			(8)	(46)	(47)	
hexavalent chromium(Cr VI)	µg/cm ²	0.10	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI based coating
 - The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

Test method: IEC 62321-7-2:2017

Item	Unit	RL	Result	Limit
			(14)	
hexavalent chromium(Cr VI)	mg/kg	10	N.D.	1000
Conclusion	/	/	Pass	/

A.2.3 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	RL	Result		Limit
			(18)	(55)	
Monobromobiphenyl (MonoBB)	mg/kg	100	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	100	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	100	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	100	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	100	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	100	N.D.	N.D.	-

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 7 of 10

Item	Unit	RL	Result		Limit
			(18)	(55)	
Heptabromobiphenyl (HeptaBB)	mg/kg	100	N.D.	N.D.	-
Octabromobiphenyl (OctaBB)	mg/kg	100	N.D.	N.D.	-
Nonabromobiphenyl (NonaBB)	mg/kg	100	N.D.	N.D.	-
Decabromobiphenyl (DecaBB)	mg/kg	100	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	100	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	100	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	100	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	100	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	100	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	100	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	100	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	100	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	100	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	100	N.D.	N.D.	-
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	N.D.	N.D.	1000
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	/

Note:

- N.D.= Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm
- The Result less than RL are not taken into account while calculating the sum contents.

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 8 of 10

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	RL	Result						Limit
			(1)+(2)+(3)	(4)+(5)+(19)	(7)+(9)+(20)	(10)	(11)	(12)+(13)+(14)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.016	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	0.015	0.017	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	RL	Result						Limit
			(15)+(16)	(18)+(55)	(23)+(27)+(28)	(29)	(34)	(35)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	0.019	N.D.	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	0.011	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	RL	Result						Limit
			(37)	(38)+(39)+(43)	(45)+(51)+(52)	(48)	(49)+(50)	(57)	
Dibutyl Phthalate(DBP)	%	0.010	0.011	N.D.	0.011	N.D.	N.D.	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	0.011	0.016	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	0.012	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- 0.1% = 1000 mg/kg, mg/kg = ppm
- "+" = Mixed, Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

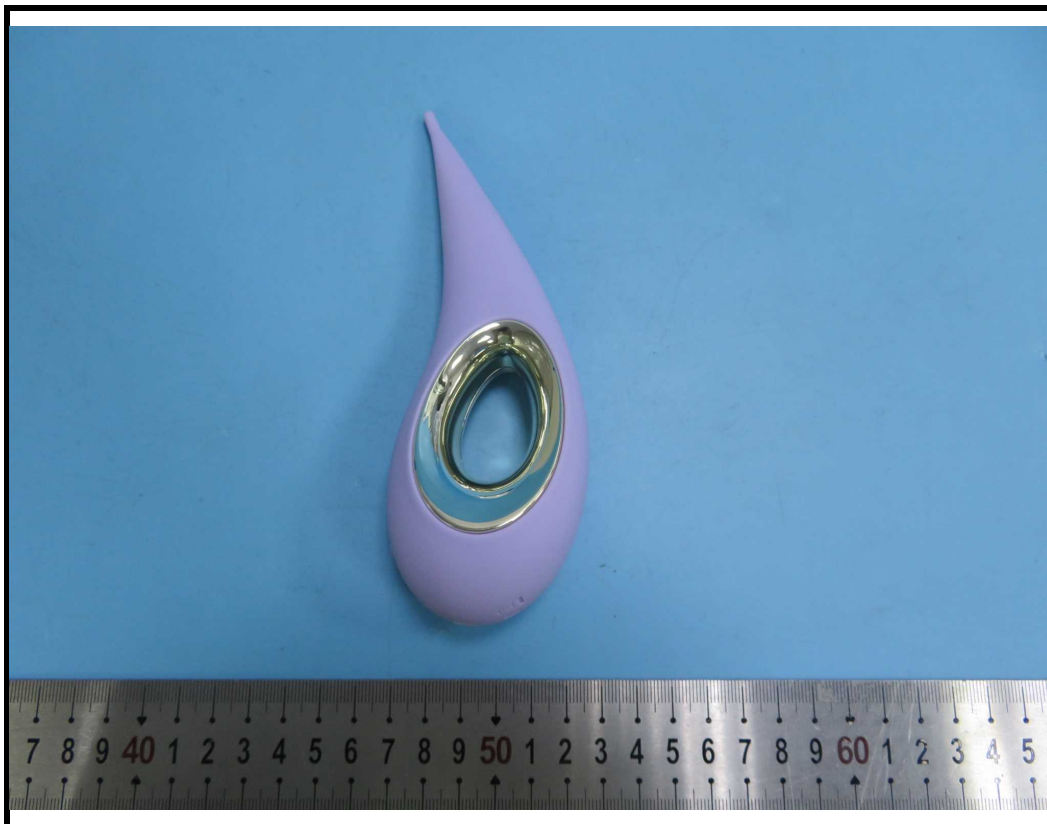
TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 9 of 10

Photograph of Sample



BACL authenticate the photo on original report only

TEST REPORT

Report No.: SH1220802-35028E-M1

Date: September 02, 2022

Page 10 of 10

Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.
- 7.The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

*** End of Report ***