

Test Report No. CANEC2309576101 Date: 25 Aug 2023 Page 1 of 15

Client Name: LELON ELECTRONICS CORP./LELON ELECTRONICS (HUIZHOU) CO.,LTD./LELON

ELECTRONICS (SUZHOU) CO.,LTD./LELON ELECTRONICS TECHNOLOGY (SUZHOU)

CO.,LTD.

Client Address: 147, SEC. 1, GUOGUANG RD., DALI DISTRICT, TAICHUNG, TAIWAN

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GUANGDONG, CHINA

1220, ZHONGSHAN NORTH RD., WUJIANG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT

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788,XINZI ROAD, WUJIANG ECONOMIC TECHNOLOGICAL DEVELOPMENT ZONE,SUZHOU

CITY, JIANGSU, CHINA

Sample Name: Used for Conductive Polymer Hybrid Capacitors

Model No.: SMD Type

The above sample(s) and information were provided by the client.

SGS Job No.: SZP23-009342 - SZ

Date of Sample Received: 10 Aug 2023

Testing Period: 10 Aug 2023 - 21 Aug 2023

Test Requested: Selected test(s) as requested by the client.

Please refer to next page(s). Test Method(s):

Test Result(s): Please refer to next page(s).

> Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arsene Ye

Arsene Ye Approved Signatory







No. CANEC2309576101

Date: 25 Aug 2023

Page 2 of 15

Test Result(s):

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN23-095761.001	Gray metal(said to be AL FOIL)
SN2	CAN23-095761.002	Silvery surfaced metal(said to be AL CASE)
SN3	CAN23-095761.003	Silvery plated metal pin(said to be LEAD WIRE)
SN4	CAN23-095761.004	White paper(said to be ELECTROLYTIC PAPER)
SN5	CAN23-095761.005	Brown adhesive tape(said to be ADHESIVE TAPE)
SN6	CAN23-095761.006	Black rubber(said to be RUBBER IIR)
SN7	CAN23-095761.007	Dark green paste(said to be UV INK GREEN)
SN8	CAN23-095761.008	Black liquidl(said to be ELECTROLYTE)
SN9	CAN23-095761.009	Black plastic(said to be BASE)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	9	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-		ND	
Monobromobiphenyl	-	mg/kg	5		ND	
Dibromobiphenyl	-	mg/kg	5		ND	
Tribromobiphenyl	-	mg/kg	5		ND	
Tetrabromobiphenyl	-	mg/kg	5		ND	
Pentabromobiphenyl	-	mg/kg	5		ND	
Hexabromobiphenyl	-	mg/kg	5		ND	
Heptabromobiphenyl	-	mg/kg	5		ND	





Test Report	No. CANEC2309576101		Date: 25 Aug 2023		Page 3 of 15	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Octabromobiphenyl	-	mg/kg	5		ND	
Nonabromobiphenyl	-	mg/kg	5		ND	
Decabromobiphenyl	-	mg/kg	5		ND	
Sum of PBDEs	1,000	mg/kg	-		ND	
Monobromodiphenyl ether	-	mg/kg	5		ND	
Dibromodiphenyl ether	-	mg/kg	5		ND	
Tribromodiphenyl ether	-	mg/kg	5		ND	
Tetrabromodiphenyl ether	-	mg/kg	5		ND	
Pentabromodiphenyl ether	-	mg/kg	5		ND	
Hexabromodiphenyl ether	-	mg/kg	5		ND	
Heptabromodiphenyl ether	-	mg/kg	5		ND	
Octabromodiphenyl ether	-	mg/kg	5		ND	
Nonabromodiphenyl ether	-	mg/kg	5		ND	
Decabromodiphenyl ether	-	mg/kg	5		ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50		ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50		ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50		ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50		ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.





Test Report	No. CANEC2309576101		Date: 25 Aug 2023		Page 4 of 15	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	7
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Report	No. CANEC2309576101		Date: 25 Aug 2023		Page 5 of 15	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

<u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>004</u>	<u>005</u>
Chlorine (CI)	mg/kg	50	ND	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND





Test Report	No. CANEC2309576101	Date: 2	5 Aug 202	23	Page 6 of 15
Test Item(s) Chlorine (CI) Bromine (Br)	<u>Unit</u> mg/kg mg/kg	MDL 50 50	<u>006</u> ND ND	<u>007</u> 263 ND	<u>008</u> ND ND
Test Item(s) Chlorine (CI) Bromine (Br)	<u>Unit</u> mg/kg mg/kg	MDL 50 50	<u>009</u> ND ND		

Phthalate(s)

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>002</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>004</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>005</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>006</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>007</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	MDL 0.005	<u>008</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>009</u> ND



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No. CANEC2309576101

Date: 25 Aug 2023 Page 7 of 15

Remark1:

The result(s) of sample 007# shown is/are of the total weight of dried sample, client requested drying condition: Drying temperature: 250°C, Drying time: 5 hours.

Remark2:

Results & photo(s) of 001/003/004/006 in this report refer to 001/003/004/006 in test report CANEC2308865201.

Results & photo(s) of 002/005/009 in this report refer to 002/005/007 in test report CANEC2309061701.

Results & photo(s) of 007/008 in this report refer to 007/008 in test report CANEC2309253901.

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.





No. CANEC2309576101

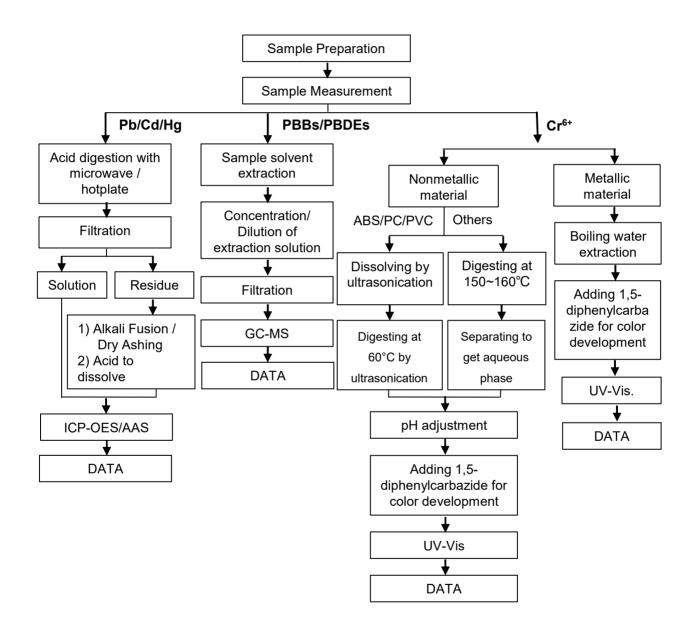
Date: 25 Aug 2023

Page 8 of 15

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).







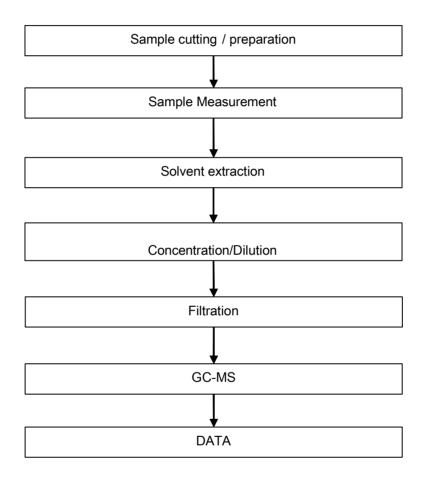
No. CANEC2309576101

Page 9 of 15

Date: 25 Aug 2023

ATTACHMENTS

Phthalates Testing Flow Chart







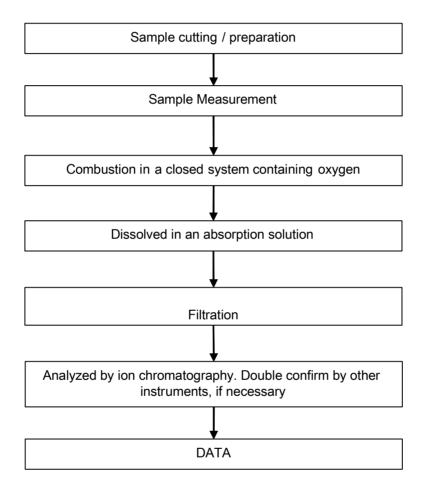
No. CANEC2309576101

Page 10 of 15

Date: 25 Aug 2023

ATTACHMENTS

Halogen Testing Flow Chart







No. CANEC2309576101

Page 11 of 15

Date: 25 Aug 2023

Sample photo:





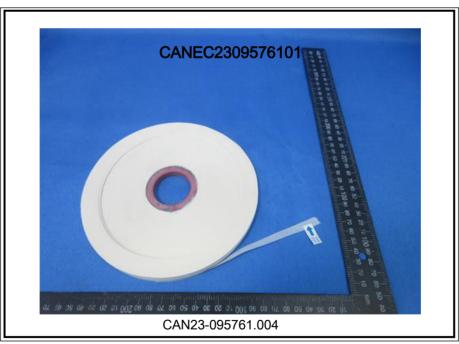




No. CANEC2309576101

Date: 25 Aug 2023 Page 12 of 15









No. CANEC2309576101

Page 13 of 15

Date: 25 Aug 2023









No. CANEC2309576101

Page 14 of 15

Date: 25 Aug 2023









No. CANEC2309576101 Date: 25 Aug 2023

Page 15 of 15



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*** End of Report ***

