

Test Report

No.: SZXEC24003796701

Date: Dec 10, 2024

Page 1 of 9

Client Name: DONGGUAN YONGLUN ELECTRONICS CO., LTD

Client Address: NO.11 CHUANGYE ER ROAD, HELU VILLAGE, HUANGJIANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, P.R.CHINA

Sample Name: Alkaline Manganese Battery Cell G13A

Client Ref. Information: LR416/SR416SW/LR421/SR421SW/LR516/SR516SW/LR521/SR521SW/379/G1A/LR621/SR621SR/364/164/G2A/LR726/SR726SW/396/196/G3A/LR41/SR41SR/392/384/G4A/LR626/SR626SW/377/377A/G5A/LR754/SR754SW/393/G6A/LR920/LR921/SR921SW/371/G7A/LR927/SR927SW/395/G8A/LR1120/SR1120SW/391/381/G9A/LR936/SR936SW/394/LR45/G10A/LR1130/SR1130SW/389/LR54/G11A/LR721/SR721SW/362/G12A/LR43/SR43SW/386/386A/LR732/LR932/G13A/LR44/SR44SW/357/357A/A76/10A/11A/23A/27A/32A/4LR44/LR50/625/625A/A640

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

SGS Job No.: SZP24-053417

Sample Receiving Date: Dec 05, 2024

Testing Period: Dec 05, 2024 ~ Dec 10, 2024

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

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

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

Test Requirement	Conclusion
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Andy

Andy Ni
Approved Signatory

scan to see the report



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Test Report

No.: SZXEC24003796701

Date: Dec 10, 2024

Page 2 of 9

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX24-0037967-0001.C001	"Alkaline Manganese Battery Cell G13A"

Remarks:

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

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), 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+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A1
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybrominated biphenyls (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	25	ND



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Test Report

No.: SZXEC24003796701

Date: Dec 10, 2024

Page 3 of 9

Test Item(s)	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	mg/kg	50	ND
Dibutyl Phthalate (DBP)	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	mg/kg	50	ND

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.



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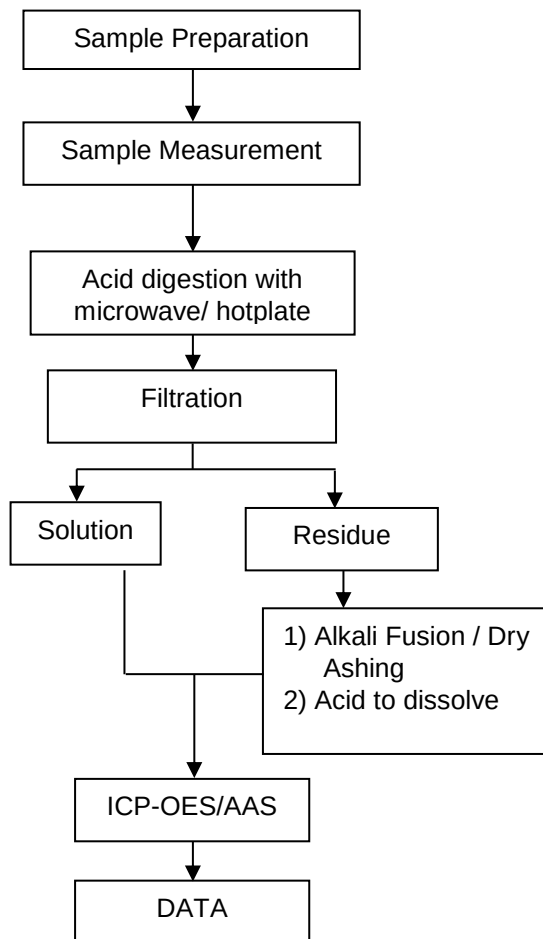
No.: SZXEC24003796701

Date: Dec 10, 2024

Page 4 of 9

Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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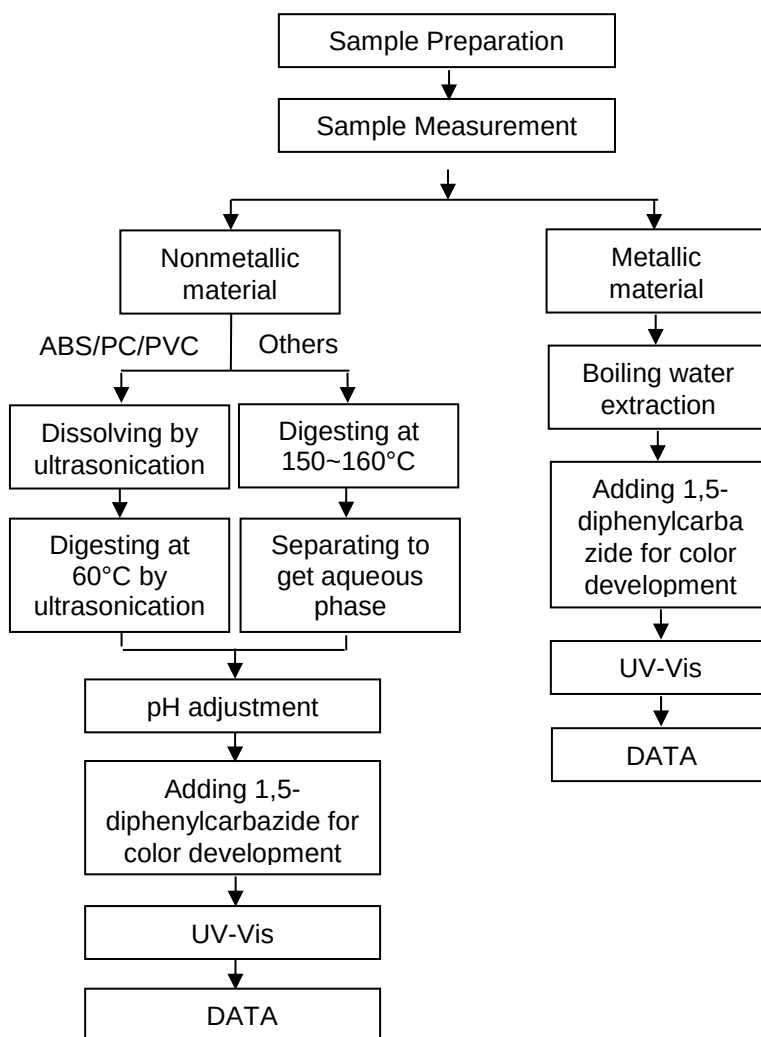
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Date: Dec 10, 2024

Page 5 of 9

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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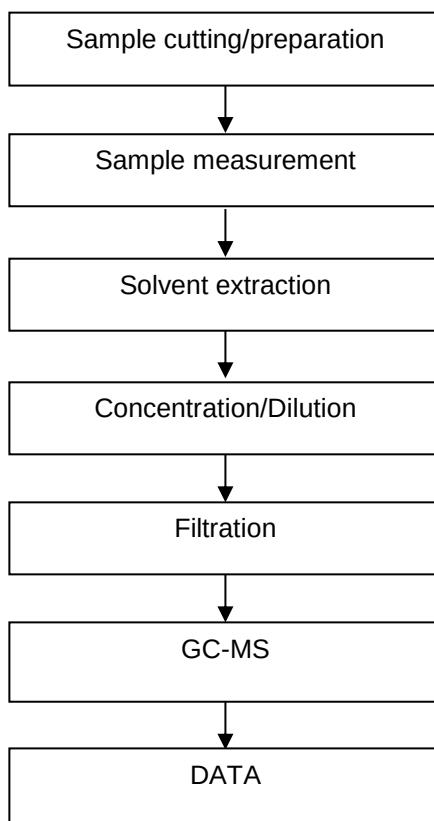
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No.: SZXEC24003796701

Date: Dec 10, 2024

Page 6 of 9

PBB/PBDE/Phthalates Testing Flow Chart



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Test Report

No.: SZXEC24003796701

Date: Dec 10, 2024

Page 7 of 9

Sample Photo:



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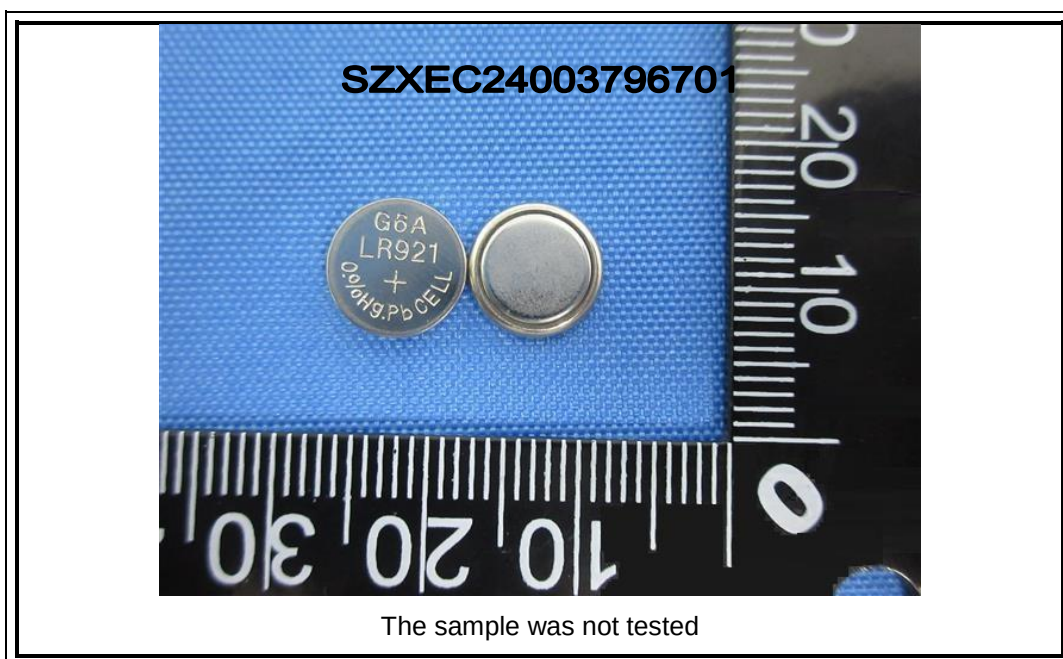
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Date: Dec 10, 2024

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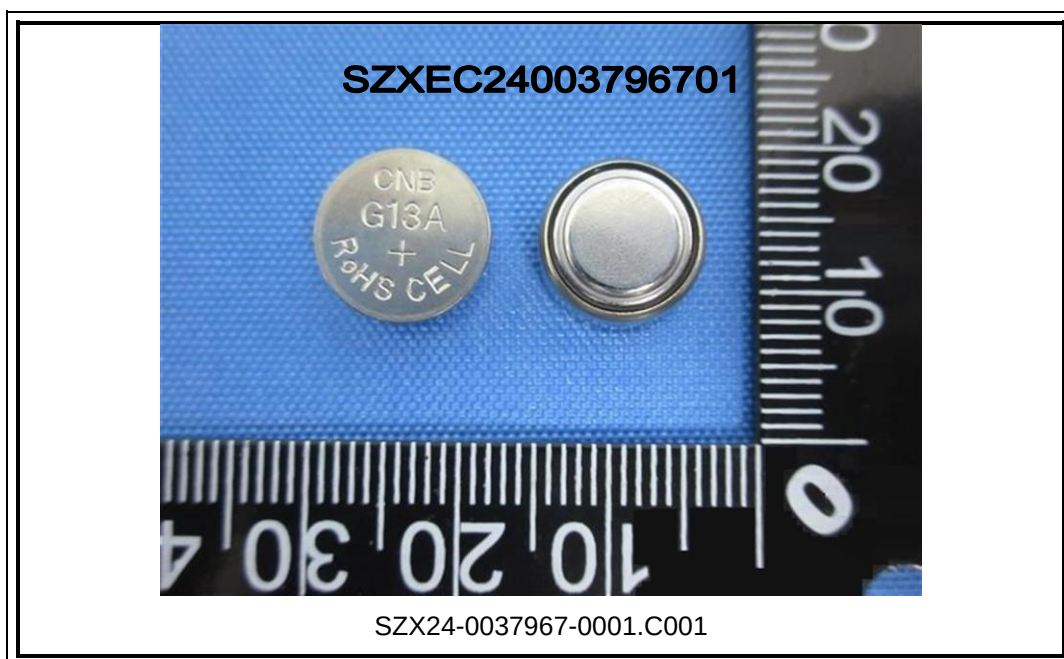
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Date: Dec 10, 2024

Page 9 of 9



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