Test Report

No.: SZXEC26003969601_2 **Date:** Jul 15, 2026

Client Name: SHENZHEN MAKUMI TECHNOLOGY CO., LTD

Client Address: NO. 249 LIDU ROAD, XINHU STREET, GUANGMING DISTRICT, SHENZHEN CITY

Sample Name:	Lithium manganese dioxide button battery
Model No.:	CR2032
Client Ref. Information:	CR920.CR927,CR1025.CR1212,CR1216.CR1220.CR1225,CR1254, CR1620,CR1612,CR1616,CR1632,CR1654,CR2012.CR2016.CR2020, CR2025,CR2032,CR2050,CR2320,CR2330,CR2325,CR2335,CR2354, CR2412,CR2430,CR2440,CR2450,CR2460,CR2477,CR2466,CR3032. CR3048.CR3832,CR1632X,CR2032X,CR1654X,CR2450X,CR2477X, CR2025X,CR2050X.CR2430X,CR2032R,CR2450R,CR2,CR123A, CR14250,CR17450,CR18505,CR26500,CR34615

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

THIS REPORT IS TO SUPERSEDE REPORT NO.SZXEC26003969601_1, DATE: Jul 09, 2026.

SGS Job No.:	SZP26-032227
Sample Receiving Date:	Jul 01, 2026
Testing Period:	Jul 01, 2026 ~ Jul 07, 2026
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

Ford Shi
Approved Signatory

Scan to see the report

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX26-0039696-0001.C001	"Lithium manganese dioxide button battery"

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 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
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Dibutyl Phthalate (DBP)	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	mg/kg	50	ND

Remark: This report updates sample photo.

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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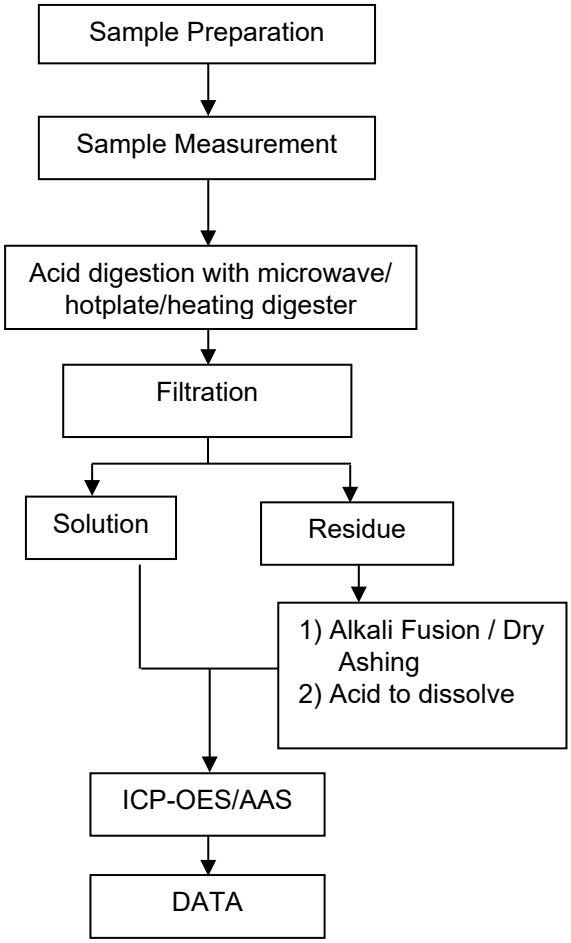
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Elements Testing Flow Chart

These samples of Pb/Cd/Hg were dissolved totally by pre-conditioning method according to below flow chart.

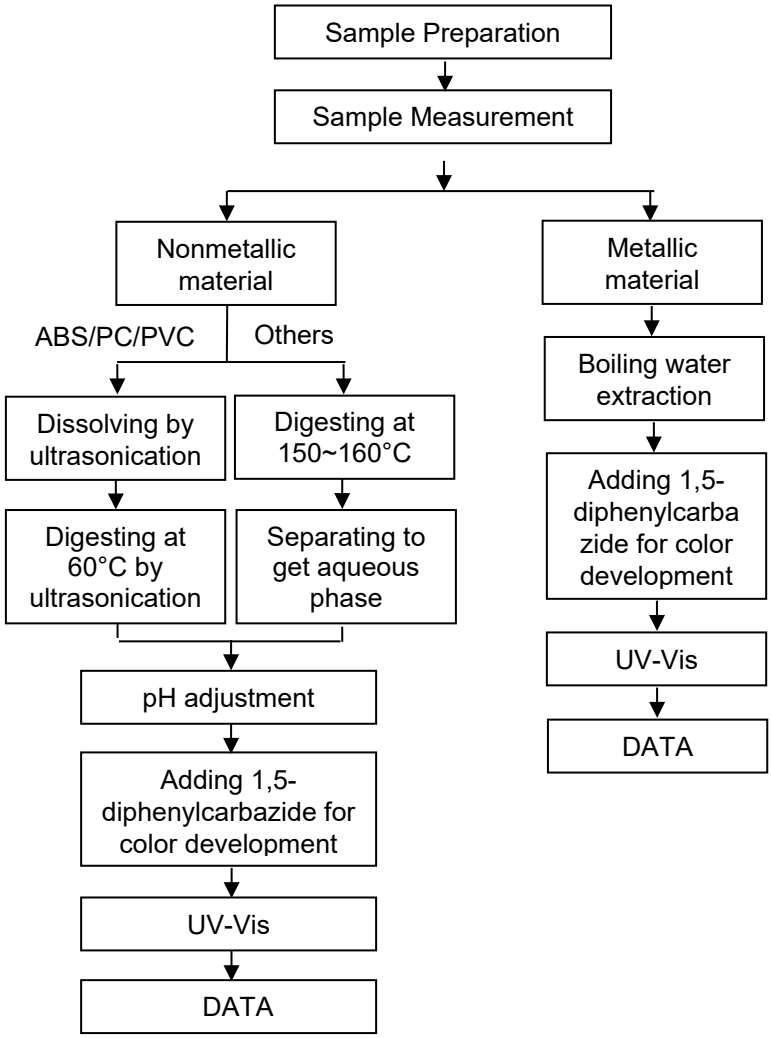


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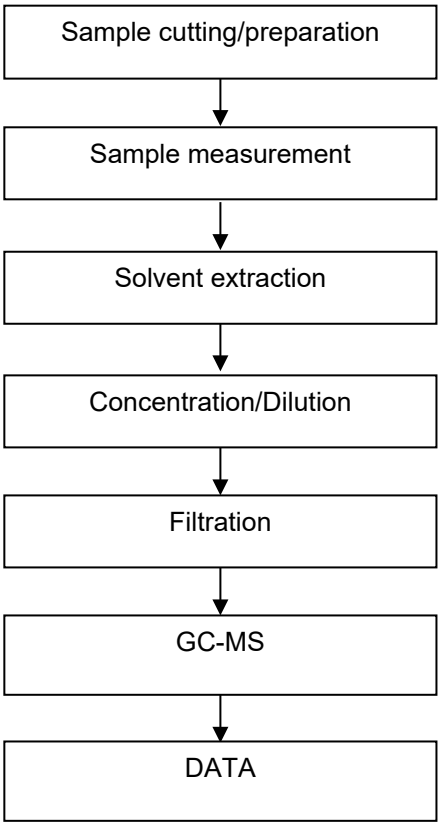
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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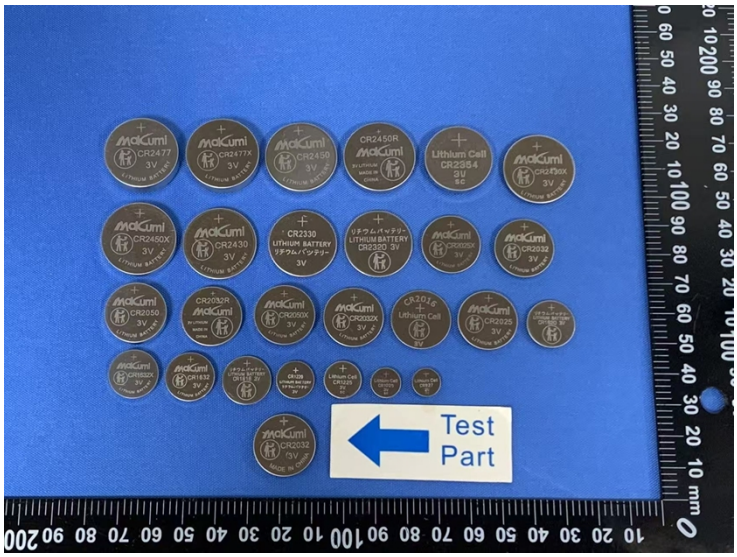
PBB(s)/PBDE(s)/Phthalates Testing Flow Chart



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Sample Photo:



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*** End of Report ***

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