TEST REPORT

Applicant	:	**Shenzhen Harding Energy Co.,Ltd.**
Address	:	**Unit 201-202 Building 4 Dongchuang Intelligent Technology Industrial Park Linghai Rd 2 Kuichong Dapeng New District Shenzhen China 518119**
Manufacturer	:	**Shenzhen Harding Energy Co.,Ltd.**
Address	:	**Unit 201-202 Building 4 Dongchuang Intelligent Technology Industrial Park Linghai Rd 2 Kuichong Dapeng New District Shenzhen China 518119**

Report on the submitted samples said to be:

Sample Name	:	LI-ION POLYMER BATTERY
Tested model	:	LP-PAVMYRN1S1P
Date of Sample Received	:	January 26, 2026
Testing Period	:	January 26, 2026 ~ March 05, 2026
Results	:	Please refer to next page(s).

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TEST REQUEST

According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diisobutyl phthalate (DIBP) content comply with the limit as set of RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.

CONCLUSION

Pass

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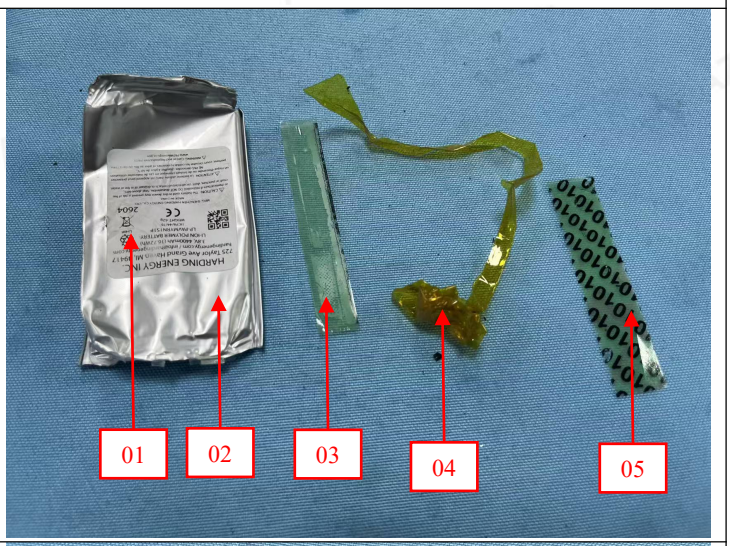
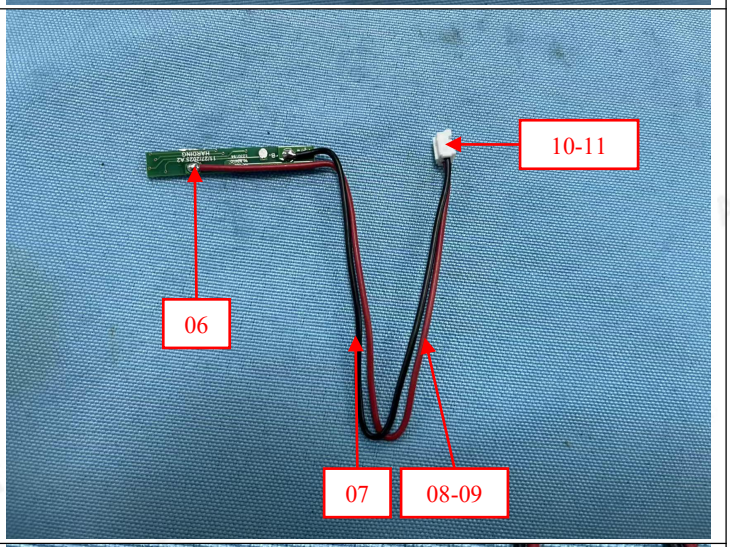
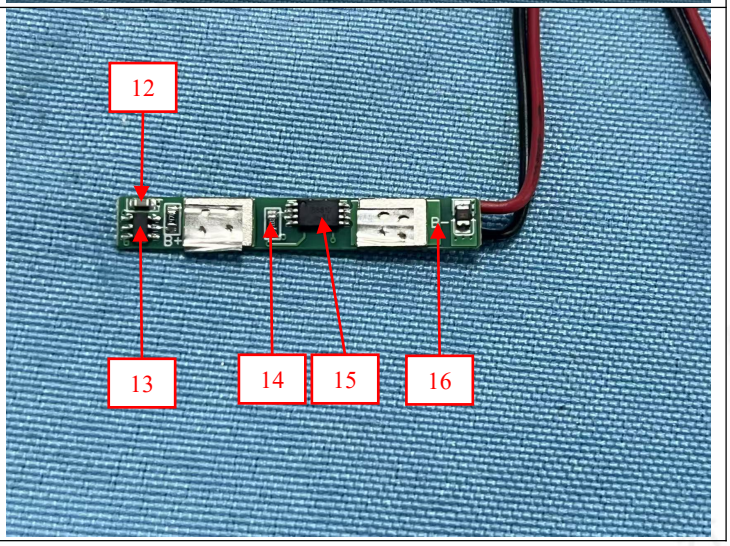
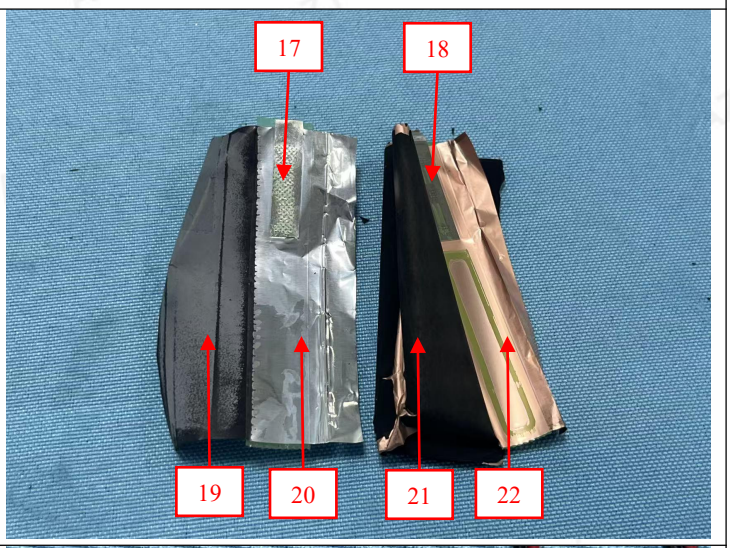
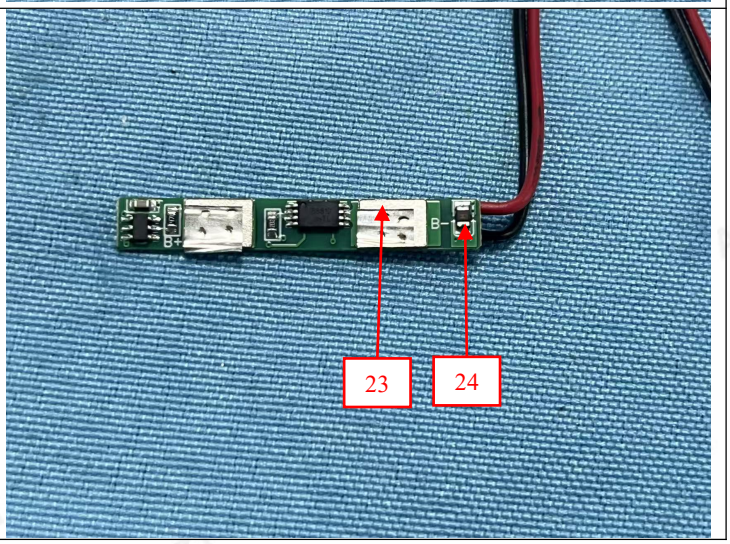
Signed for and on behalf of AZT

Jack Zhong

Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
01	White label with black printing	
02	Silvery plastic	
03	Green plastic	
04	Yellow tape	
05	Green plastic	
06	Silvery soldering tin	
07	Black wire jacket	
08	Red wire jacket	
09	Silvery metal core	
10	White plastic	
11	Silvery metal	
12	Chip capacitor	
13	IC	
14	Chip resistor	
15	MOS	
16	Green PCB	

No.	Tested Part(s)	The photo of the sample
17	Silvery metal sheet	
18	Copper metal sheet	
19	Carbon black	
20	Silvery metal foil sheet	
21	Carbon black	
22	Copper metal foil sheet	
23	Silvery metal sheet	
24	Chip resistor	

Results:

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

A. XRF screening Result

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
01	White label with black printing	BL	BL	BL	BL	BL	BL
02	Silvery plastic	BL	BL	BL	BL	BL	BL
03	Green plastic	BL	BL	BL	BL	BL	BL
04	Yellow tape	BL	BL	BL	BL	BL	BL
05	Green plastic	BL	BL	BL	BL	BL	BL
06	Silvery soldering tin	BL	BL	BL	BL	/	/
07	Black wire jacket	BL	BL	BL	BL	BL	BL
08	Red wire jacket	BL	BL	BL	BL	BL	BL
09	Silvery metal core	BL	BL	BL	BL	/	/
10	White plastic	BL	BL	BL	BL	BL	BL
11	Silvery metal	BL	BL	BL	BL	/	/
12	Chip capacitor	BL	BL	BL	BL	BL	BL
13	IC	BL	BL	BL	BL	BL	BL
14	Chip resistor	BL	BL	BL	BL	BL	BL
15	MOS	BL	BL	BL	BL	BL	BL
16	Green PCB	BL	BL	BL	BL	X	X
17	Silvery metal sheet	BL	BL	BL	BL	/	/
18	Copper metal sheet	BL	BL	BL	BL	/	/
19	Carbon black	BL	BL	BL	BL	BL	BL
20	Silvery metal foil sheet	BL	BL	BL	BL	/	/
21	Carbon black	BL	BL	BL	BL	BL	BL
22	Copper metal foil sheet	BL	BL	BL	BL	/	/
23	Silvery metal sheet	BL	BL	BL	BL	/	/
24	Chip resistor	BL	BL	BL	BL	BL	BL

Note:
(1) 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.

XRF screening limits for different materials:

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:
- BL=Below Limit
- OL=Over Limit (Screening result was over limit, thus further confirmation test was conducted.)
- X=Inconclusive(Screening result was inconclusive, thus further confirmation test was conducted.)
- /=Not Applicable
- mg/kg = milligram per kilogram = ppm

(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
(3) The maximum permissible limit is quoted from the RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.
(4) ▼=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.

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 diphenyl ethers (PBDEs)	1000
Dibutyl Phthalate (DBP)	1000
Benzyl butyl Phthalate (BBP)	1000
Bis(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. Result of Wet Chemical Testing

Test method:

Lead & Cadmium Content:
With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).
Mercury Content:
With reference to IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).
Hexavalent Chromium Content:
With reference to IEC 62321-7-1:2015& IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).
PBBs & PBDEs Content:
With reference to IEC 62321-6:2015, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).
DBP, BBP, DEHP, DIBP Content:
With reference to IEC 62321-8:2017, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of DBP, BBP, DEHP & DIBP

Test Items	CAS No.	Unit	MDL	Results		Limit
				03+04+05	07+08	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results	Limit
				10+16+19	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	1000
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	1000

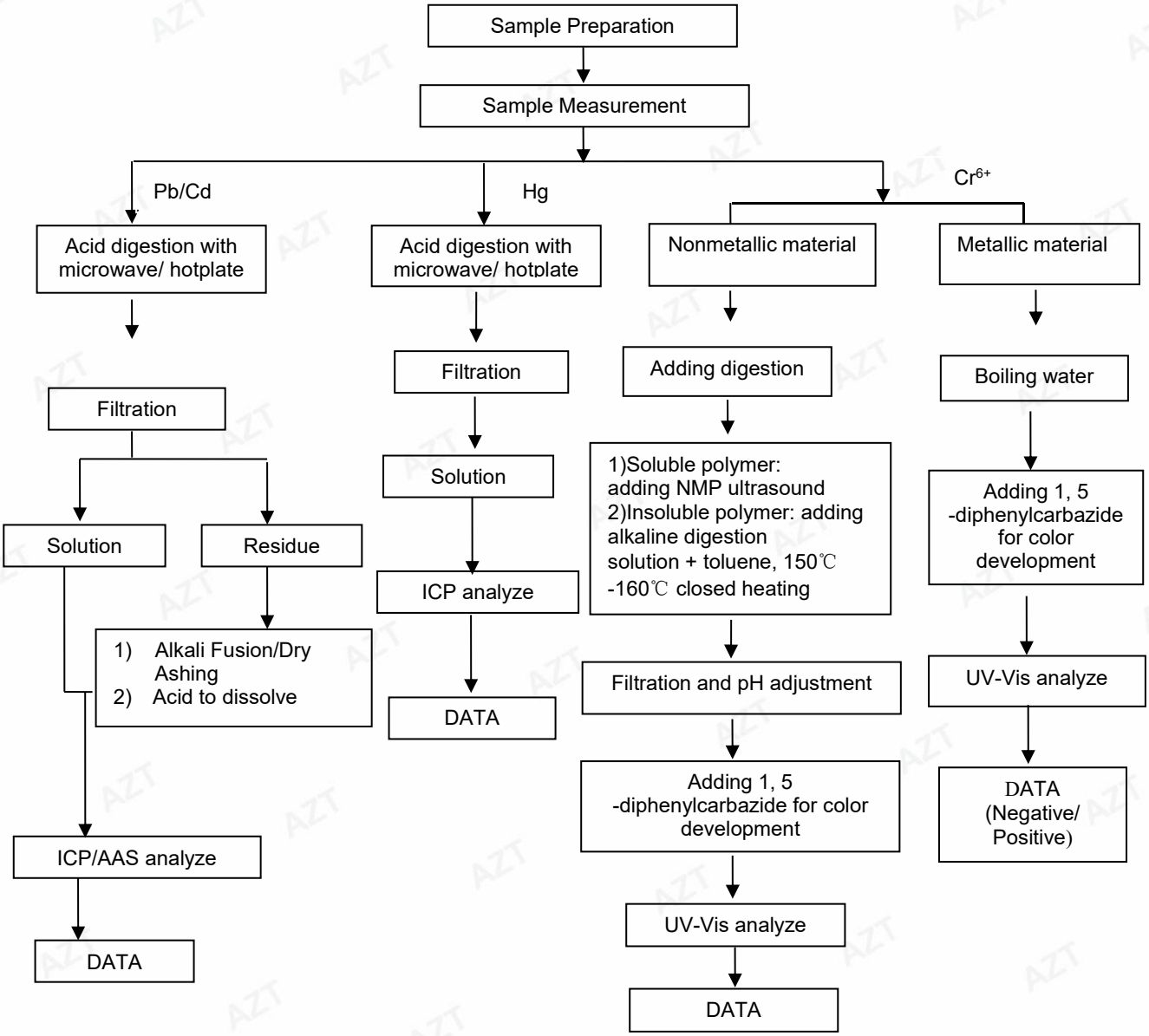
2) The test results of PBBs & PBDEs

Test Items	Unit	MDL	Results	Limit
			16	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	mg/kg	50	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	/
Total content	mg/kg	/	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)				
Monobromodiphenyl ether	mg/kg	50	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	/
Decabromodiphenyl ether	mg/kg	50	N.D.	/
Total content	mg/kg	/	N.D.	1000

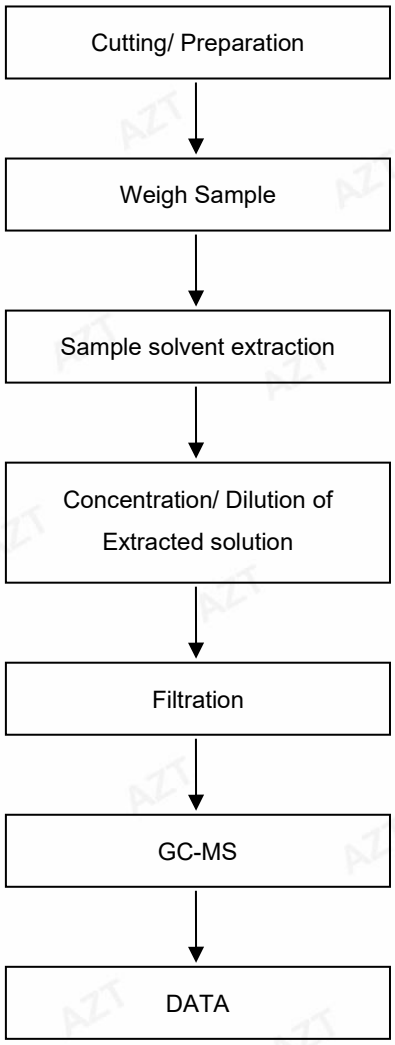
Remark:
- mg/kg = milligram per kilogram = ppm
- N.D. = Not detected
- MDL= Method detected limited
- The samples were mixed for phthalic acid test
- The tested part(s) <23, 24> are the original test on March 03, 2026.
- Tested part(s) was/were specified by client
- Flow chart appendix is included
- Photo appendix is included

Appendix

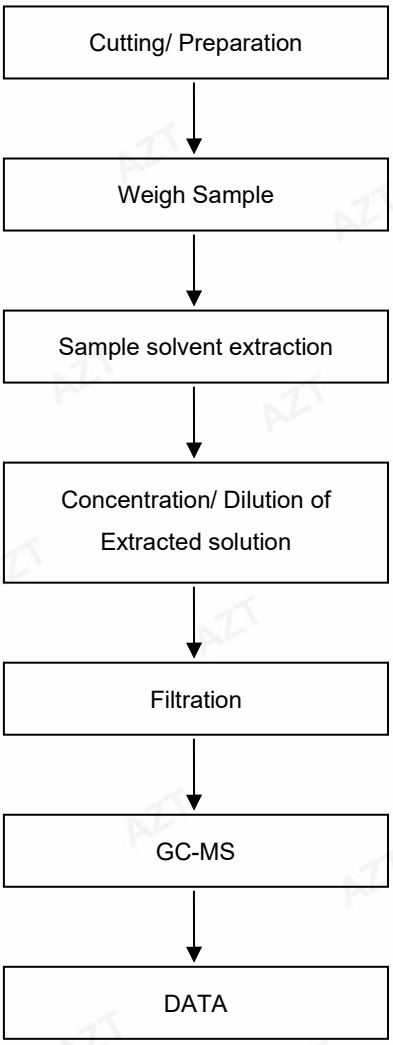
Pb/Cd/Hg/Cr^{6+} Testing Flow Chart



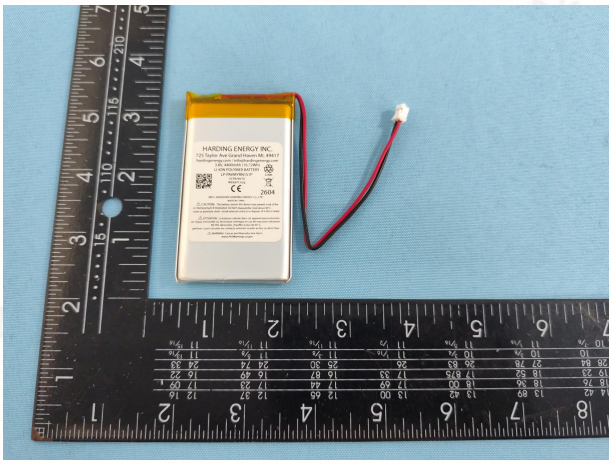
PBBs/PBDEs Testing Flow Chart

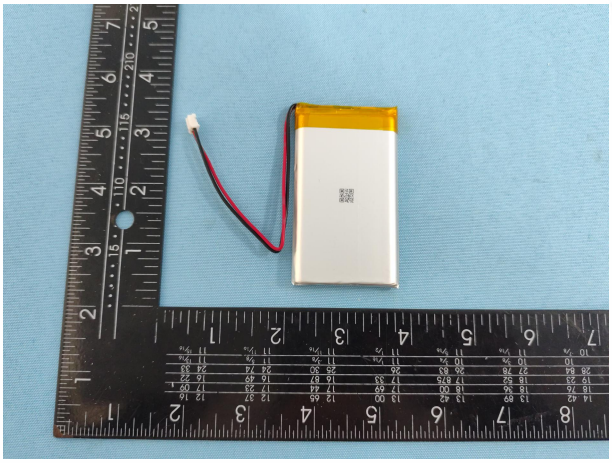


Phthalates Testing Flow Chart



The photo of the sample





AZT authenticate the photo on original report only

Declaration: Report AZT260126001C-E0 was repealed and replaced by Report AZT260126001C-E1.

Statement:

1. This test report is invalid without the signature of the approver and the special seal of the company's report.
2. The copy of the test report is invalid if the "Special Seal for Inspection and Testing" or "Special Seal for testing" or the official seal of the testing unit is not re-stamped.
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*** End of Report ***