



Test Report

Report No. ZTL-2025101103R

Date: Oct. 16, 2025

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Applicant : Dunext Technology Suzhou Co., Ltd.

Address : 1st & 2nd Floors, Factory Building 6, 58 Xingnan Road, Wuzhong District, Suzhou City 215100 Suzhou, Jiangsu, People's Republic Of China

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample name : Container energy storage System

Testing type /model : EnerCube

Additional type /model : PowerMount-P240-860kWh, PowerMount-P300-1075kWh, PowerMount-P360-1290kWh, PowerMount-P360-1505kWh, PowerMount-P360-2007kWh, PowerMount-P400-860kWh, PowerMount-P420-1505kWh, PowerMount-P420-1750kWh, PowerMount-P480-1720kWh, PowerMount-P480-1750kWh, PowerMount-P480-1003kWh, PowerMount-P480-1505kWh, PowerMount-P480-2007kWh, PowerMount-P500-1075kWh, PowerMount-P500-1290kWh, PowerMount-P600-1290kWh, PowerMount-P600-1505kWh, PowerMount-P600-2007kWh, PowerMount-P700-1505kWh, PowerMount-P720-1505kWh, PowerMount-P720-2007kWh, PowerMount-P750-1505kWh, PowerMount-P800-1720kWh, PowerMount-P840-1750kWh, PowerMount-P840-2007kWh, PowerMount-P960-2007kWh, PowerMount-P1000-2007kWh

Trademark : N/A

Manufacturer name : Dunext Technology Suzhou Co., Ltd.

Address : 1st & 2nd Floors, Factory Building 6, 58 Xingnan Road, Wuzhong District, Suzhou City 215100 Suzhou, Jiangsu, People's Republic Of China

Sample received date : Oct. 09, 2025

Testing period : Oct. 09, 2025 to Oct. 16, 2025

Test requested : As specified by client, to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Diisobutyl phthalate (DIBP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) in the submitted sample in accordance with the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019.

Test Method : Please refer to the following page(s)

Test Result(s) : Please refer to the following page(s)

Conclusion : The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU.

Note:

This test report is issued for the purpose of Co-license.

This report is based on report ZTL-2025052804R, the new models EnerCube in Co-license are the same as original models EnerCube mentioned in test report ZTL-2025052804R respectively except for license holder "Dunext Technology Suzhou Co., Ltd.", no further test need

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Producer By : Rosy Zhao
(Rosy Zhao / Engineer)

Authorized Signer : Marsh Wang
(Marsh Wang / Manager)

Date: Oct. 16, 2025

Date: Oct. 16, 2025

Shenzhen ZTL Testing Technology Co., Ltd.

Address: 707, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel: (+86-755) 27225865

Fax: (+86-755) 27225865

Email: ztl@ztl-lab.com

Http://www.ztl-lab.com



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Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

Element	Limit of IEC 62321-3-1:2013. Unit (mg/kg)		MDL	
	Polymers and Metals	Composite Material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10 mg/kg	50 mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	10 mg/kg	50 mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10 mg/kg	50 mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10 mg/kg	50 mg/kg
Br	$BL \leq (300-3\sigma) < X$	$BL \leq (250-3\sigma) < X$	10 mg/kg	50 mg/kg

Note:

-BL = Under the XRF screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol "X" marks the region where further investigation is necessary

-3σ= The reproducibility of analytical instruments

-LOD= Detection limit

B. Chemical Test

Test Item	Test Method	Test Equipment	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium Cr (VI) (Metal)	IEC 62321-7-1:2015	UV-VIS	0.1 µg/cm ²	0.13 µg/cm ²
Hexavalent Chromium Cr (VI) (Nonmetal)	IEC 62321-7-2:2017	UV-VIS	8 mg/kg	1000 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000 mg/kg
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50mg/kg	1000 mg/kg

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Test Result(s):

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
1	Main control module F133	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
2	DC molded case circuit breaker	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
3	50A24V DC contactor	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
4	250A DC fuse	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
5	White indicator light	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
6	hall sensor	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
7	Pre charge resistor 40 Ω 500W	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
8	250A24V DC contactor	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
9	Control board	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
10	1MW/2MWh BMS box main wire harness	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
11	1MW/2MWh BMS box sampling harness	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
12	Paired terminals	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
13	Paired terminals	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
14	1MW/2MWh-PCBA	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
15	1MW/2MWh BMS-F200A control box housing	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
16	1MW2MWh BMS F200A control box copper bar component (without AIP)	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
17	Through terminal	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
18	SM30 insulator	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
19	Cross groove pan head combination bolt	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
20	Cross round head combination screw	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
21	Cross pan head three combination screw	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
22	M5X16 cross groove hexagonal three combination screw	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
23	Cross groove hexagonal bolt and spring flat pad assembly	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
24	304 stainless steel cross groove hexagonal bolt assembly	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
25	M5 flange nut	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
26	304 stainless steel cross hexagonal three combination bolt	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
27	cable ties	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
28	BMS-F200A new version control box nameplate (without AIP)	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	



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Tested Item(s)	Result Unit (mg/kg)					Acceptable Limit Unit (mg/kg)
	1	2	3	4	5	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	/	N.D.	N.D.	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	/	N.D.	N.D.	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	/	N.D.	N.D.	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	/	N.D.	N.D.	1000

Tested Item(s)	Result Unit (mg/kg)					Acceptable Limit Unit (mg/kg)
	6	7	8	9	10	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	/	N.D.	/	N.D.	N.D.	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	/	N.D.	/	N.D.	N.D.	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	/	N.D.	/	N.D.	N.D.	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	/	N.D.	/	N.D.	N.D.	1000

Tested Item(s)	Result Unit (mg/kg)						Acceptable Limit Unit (mg/kg)
	11	12	13	14	15	16	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	/	/	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	N.D.	/	/	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	/	/	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	/	/	1000



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Tested Item(s)	Result Unit (mg/kg)						Acceptable Limit Unit (mg/kg)
	17	18	19	20	21	22	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	/	/	/	/	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	/	/	/	/	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	/	/	/	/	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	/	/	/	/	1000

Tested Item(s)	Result Unit (mg/kg)						Acceptable Limit Unit (mg/kg)
	23	24	25	26	27	28	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	/	/	/	/	N.D.	/	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	/	/	/	/	N.D.	/	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	/	/	/	/	N.D.	/	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	/	/	/	/	N.D.	/	1000



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Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.02 mg/kg with 50cm² sample surface area used.

-#=According to the directive (2011/65/ EU), Lead is exempted as copper alloy containing up to 4% lead by weight.

Remark:

- The screening results are only used for reference.

- When conducting the test for PBBs & PBDEs, XRF was introduced to screen Br Exclusively;

- When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.



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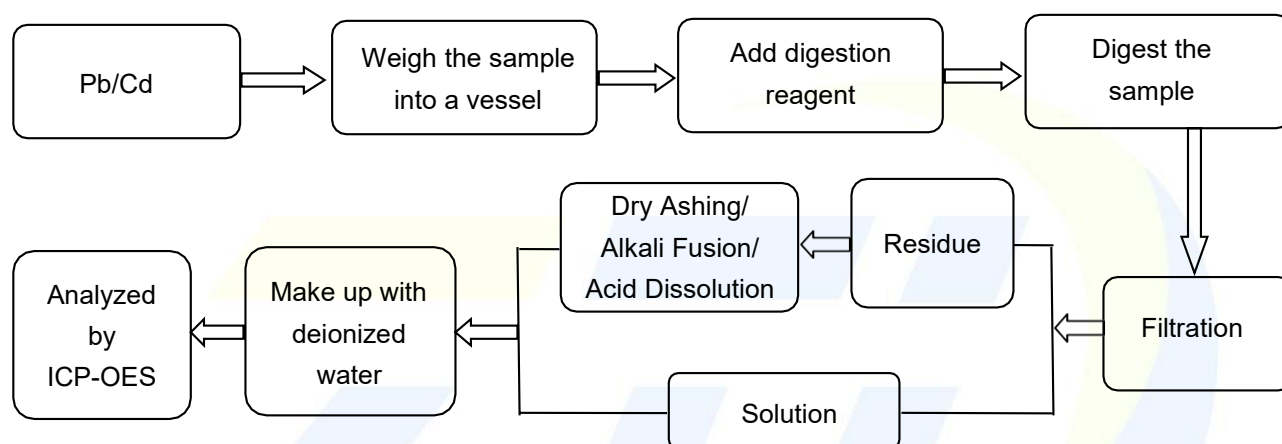
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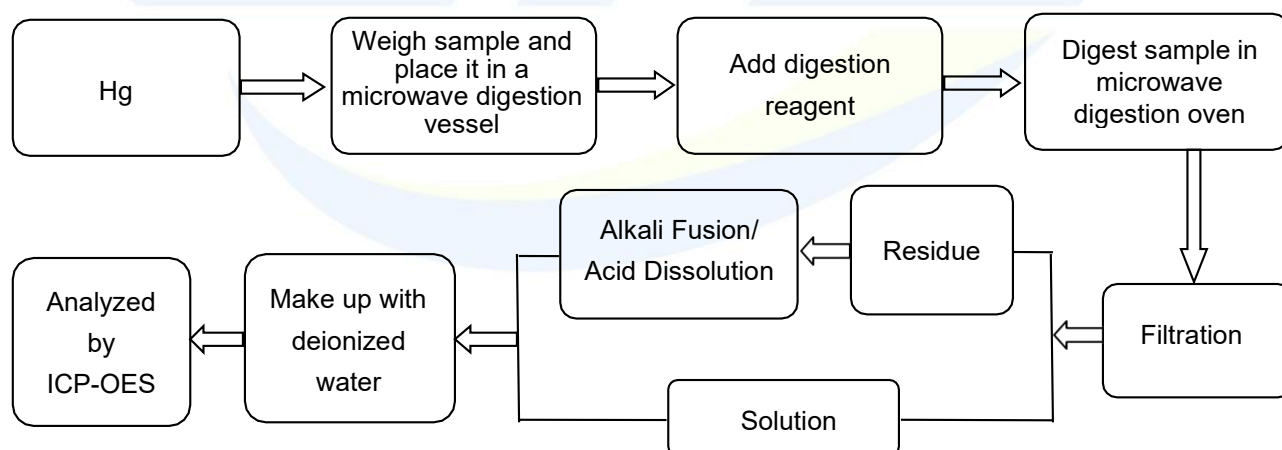
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

◆ IEC 62321-5:2013 Ed.1.0



◆ IEC 62321-4:2013+AMD1:2017 Ed.1.0





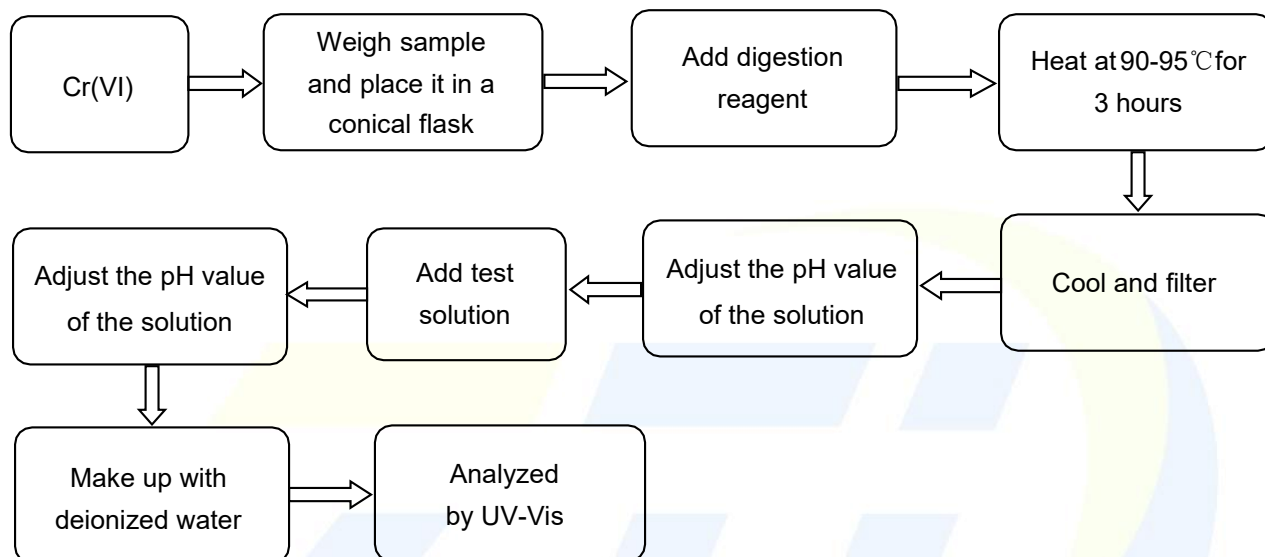
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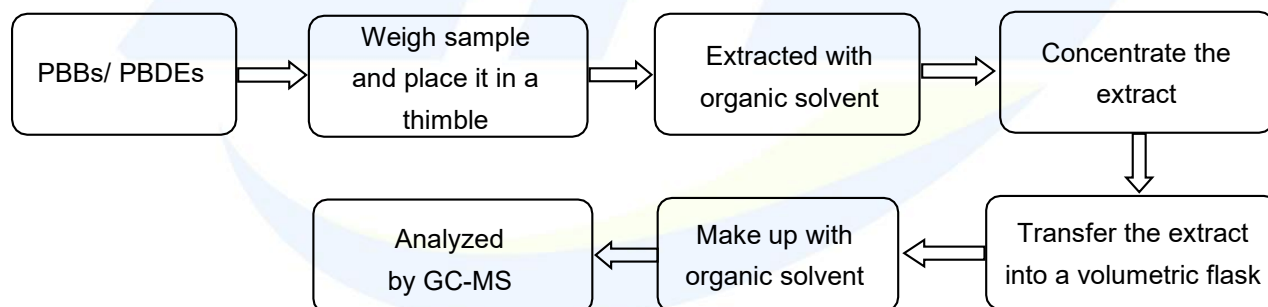
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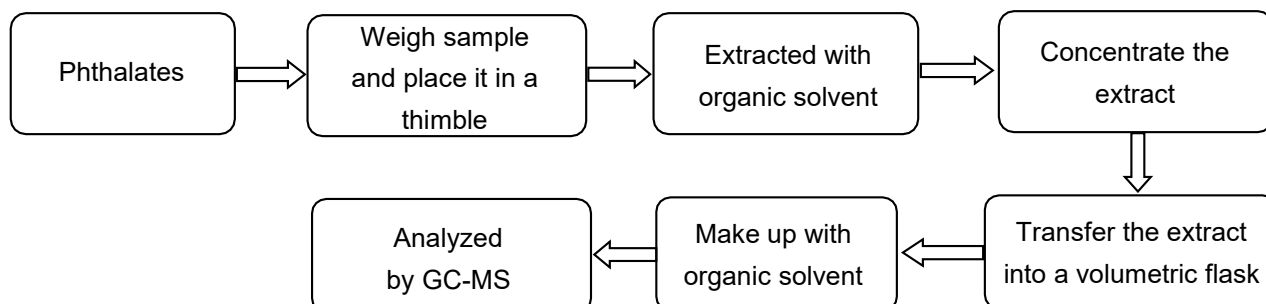
◆ IEC 62321-7-2:2017 Ed.1.0



◆ IEC 62321-6:2015 Ed.1.0



◆ IEC 62321-8:2017 Ed.1.0





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Photograph of Sample



Figure 1



Figure 2

Shenzhen ZTL Testing Technology Co., Ltd.

Address: 707, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel: (+86-755) 27225865

Fax: (+86-755) 27225865

Email: ztl@ztl-lab.com

[Http://www.ztl-lab.com](http://www.ztl-lab.com)



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Figure 3



Figure 4

Shenzhen ZTL Testing Technology Co., Ltd.

Address: 707, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel: (+86-755) 27225865

Fax: (+86-755) 27225865

Email: ztl@ztl-lab.com

[Http://www.ztl-lab.com](http://www.ztl-lab.com)



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Figure 5

***** End of Report *****

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Address: 707, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel: (+86-755) 27225865

Fax: (+86-755) 27225865

Email: ztl@ztl-lab.com

[Http://www.ztl-lab.com](http://www.ztl-lab.com)