



TEST REPORT

Report No.: ULAB-E1-E24070049

Date Of Issue: July 29, 2024

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Applicant: Chengdu Leiqu Information Technology Co., Ltd.

Address: No.1102,11th Floor,Building 1,No.69 Tianfu 3rd Street, Chengdu High-tech Zone, China (Sichuan) Pilot Free-Trade Zone

The following merchandise were submitted and identified by the clients as:

Sample Name: 4G CPE 3s

Model No.: B313-321

Date Of Submission: April 29, 2024

Testing Period: From April 29, 2024 to May 11, 2024

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals, Flame Retardants and Phthalates Content -European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU	PASS

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

Remark: All test results in this test report are quoted from the test report ULAB-E1-E24040074.

Signed for and on behalf of ULAB TESTING CO.,LTD

Approved by:



Hunter Lin/Manager

ULAB TESTING CO.,LTD.

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<u>Test Item(s)</u>	<u>Component Description(s)</u>	<u>Style(s)</u>
1	White plastic with silver printing	-
2	Silver metal with black coating	-
3	White plastic	-
4	White soft plastic	-
5	Silver metal	-
6	Black plastic	-
7	Copper metal	-
8	White/yellow adhesive soft plastic	-
9	Silver metal with black coating	-
10	Silver metal	-
11	Silver metal	-
12	Silver metal with Golden coating	-
13	White plastic	-
14	Silver metal with Golden coating	-
15	Silver metal	-
16	Black plastic	-
17	Silver metal	-
18	Silver metal	-
19	Silver metal	-
20	Silver metal	-
21	Brown body	-
22	Black magnet	-
23	Copper metal	-
24	Black plastic	-
25	Black plastic	-
26	Silver metal	-
27	Silver metal	-
28	Silver metal	-
29	Black plastic	-
30	Black plastic	-
31	Silver metal	-
32	Silver body	-
33	Black body	-

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Test Item(s)	Component Description(s)	Style(s)
34	Black body	-
35	Silver metal	-
36	Black body	-
37	Black body	-
38	Black magnet	-
39	Copper metal	-
40	Black body	-
41	Black plastic	-
42	Silver metal	-
43	Silver metal	-
44	Black body	-
45	Black body	-
46	Silver solder	-
47	Black/white body	-
48	Yellow/white body	-
49	Green PCB	-

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Test Result(s)

Heavy Metals, Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method : IEC62321-3-1:2013, IEC62321-5:2013, IEC62321-6:2015, IEC62321-7-1:2015, IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & AAS & GC-MS & UV-Vis.

Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
1.	BL	BL	BL	BL	BL	BL	PASS
2.	BL	BL	BL	Negative	NA	NA	PASS
3.	BL	BL	BL	BL	BL	BL	PASS
4.	BL	BL	BL	BL	BL	BL	PASS
5.	BL	BL	BL	Negative	NA	NA	PASS
6.	BL	BL	BL	BL	BL	BL	PASS
7.	BL	BL	BL	BL	NA	NA	PASS
8.	BL	BL	BL	BL	BL	BL	PASS
9.	BL	BL	BL	BL	NA	NA	PASS
10.	BL	BL	BL	Negative	NA	NA	PASS
11.	BL	BL	BL	BL	NA	NA	PASS
12.	34481 [#]	BL	BL	BL	NA	NA	EXEMPTED
13.	BL	BL	BL	BL	BL	BL	PASS
14.	26194 [#]	BL	BL	BL	NA	NA	EXEMPTED
15.	BL	BL	BL	Negative	NA	NA	PASS
16.	BL	BL	BL	BL	BL	BL	PASS
17.	BL	BL	BL	BL	NA	NA	PASS
18.	BL	BL	BL	Negative	NA	NA	PASS
19.	BL	BL	BL	BL	NA	NA	PASS
20.	BL	BL	BL	Negative	NA	NA	PASS
21.	BL	BL	BL	BL	BL	BL	PASS
22.	BL	BL	BL	BL	BL	BL	PASS
23.	BL	BL	BL	BL	NA	NA	PASS
24.	BL	BL	BL	BL	ND	ND	PASS
25.	BL	BL	BL	BL	ND	ND	PASS
26.	BL	BL	BL	BL	NA	NA	PASS

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Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
27.	BL	BL	BL	BL	NA	NA	PASS
28.	BL	BL	BL	BL	NA	NA	PASS
29.	BL	BL	BL	BL	BL	BL	PASS
30.	BL	BL	BL	BL	BL	BL	PASS
31.	BL	BL	BL	BL	NA	NA	PASS
32.	BL	BL	BL	BL	BL	BL	PASS
33.	BL	BL	BL	BL	BL	BL	PASS
34.	BL	BL	BL	BL	BL	BL	PASS
35.	BL	BL	BL	BL	NA	NA	PASS
36.	BL	BL	BL	BL	BL	BL	PASS
37.	BL	BL	BL	BL	BL	BL	PASS
38.	BL	BL	BL	ND	BL	BL	PASS
39.	BL	BL	BL	Negative	NA	NA	PASS
40.	BL	BL	BL	BL	BL	BL	PASS
41.	BL	BL	BL	BL	BL	BL	PASS
42.	BL	BL	BL	BL	NA	NA	PASS
43.	BL	BL	BL	BL	NA	NA	PASS
44.	BL	BL	BL	BL	BL	BL	PASS
45.	BL	BL	BL	BL	BL	BL	PASS
46.	BL	BL	BL	BL	NA	NA	PASS
47.	BL	BL	BL	BL	BL	BL	PASS
48.	BL	BL	BL	BL	BL	BL	PASS
49.	BL	BL	BL	BL	BL	BL	PASS

Remark:

(1) ①The test results shown as “BL” are obtained by EDXRF for primary screening (for Cr (VI), the EDXRF screening result is expressed as Cr, and for PBBs and PBDEs, the EDXRF screening results are expressed as Br), and the test results shown as exact data are obtained by further wet chemical testing by ICP-OES (for Cd, Pb, Hg), AAS (for Cd, Pb), UV-VIS (for Cr (VI)) and GC-MS (for PBBs and PBDEs).

②The EDXRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.

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Unit: mg/kg

Element	Polymers	Metal	Composite material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

③OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

Units and limits:

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
limit	1000	100	1000	1000	1000	1000

(2) ①mg/kg = ppm = 0.0001%, ND = Not Detected (Less than RL).

②Unit and RL (Reporting limit) in wet chemical test.

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	10	10	10	10	50	50

③ According to IEC 62321-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr (VI) coating, Positive = Presence of Cr (VI) coating. Storage condition and production date of the tested sample are unavailable and thus results of Cr (VI) represent status of the sample at the time of testing.

(3) # = Per applicant's declaration, according to exemption list clause 6(c) Copper alloy containing up to 4% lead by weight, the tested material was exempted.

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Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analytes	Result (mg/kg)		Requirement (mg/kg)
	1+3+6+13+16	4+8	
Dibutyl phthalate (DBP)	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	1000
Conclusion	PASS	PASS	-

Analytes	Result (mg/kg)		Requirement (mg/kg)
	24+25+29+30+41	49	
Dibutyl phthalate (DBP)	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	1000
Conclusion	PASS	PASS	-

Note / Key:

ND = Not detected

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

MDL= Method Detection Limit = 50mg/kg.

The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed

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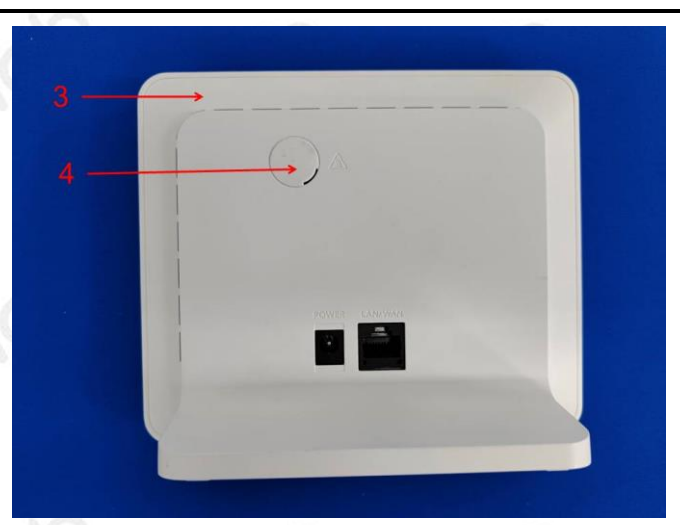
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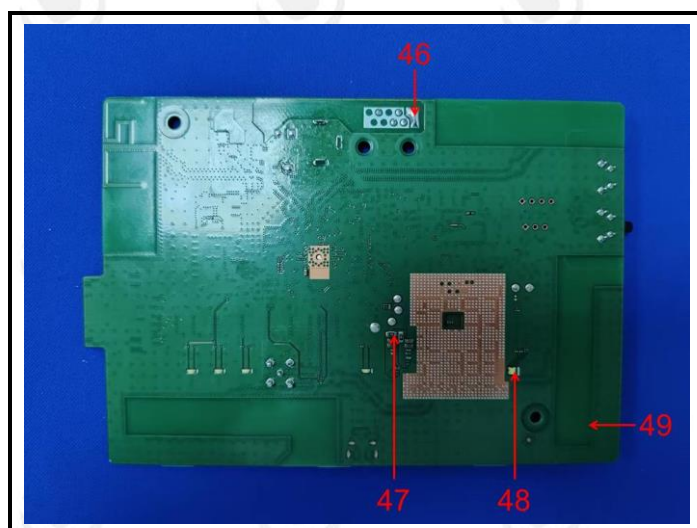
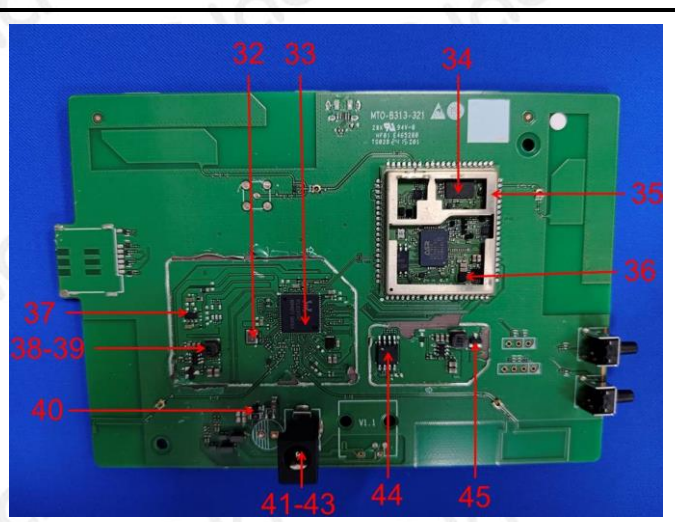
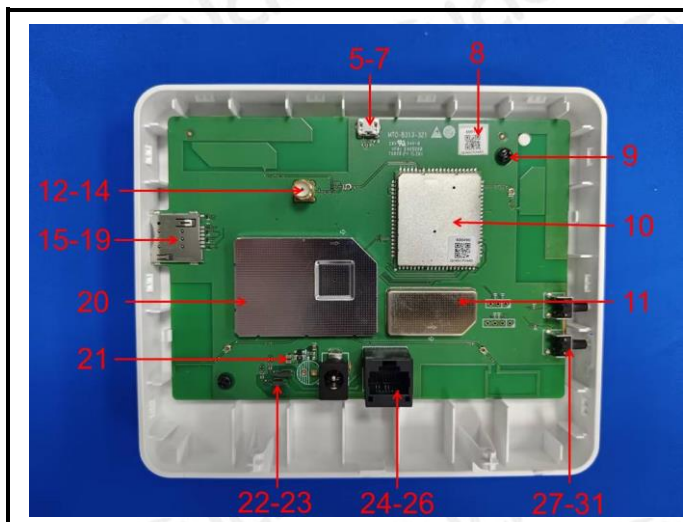
Photo of the Submitted Sample



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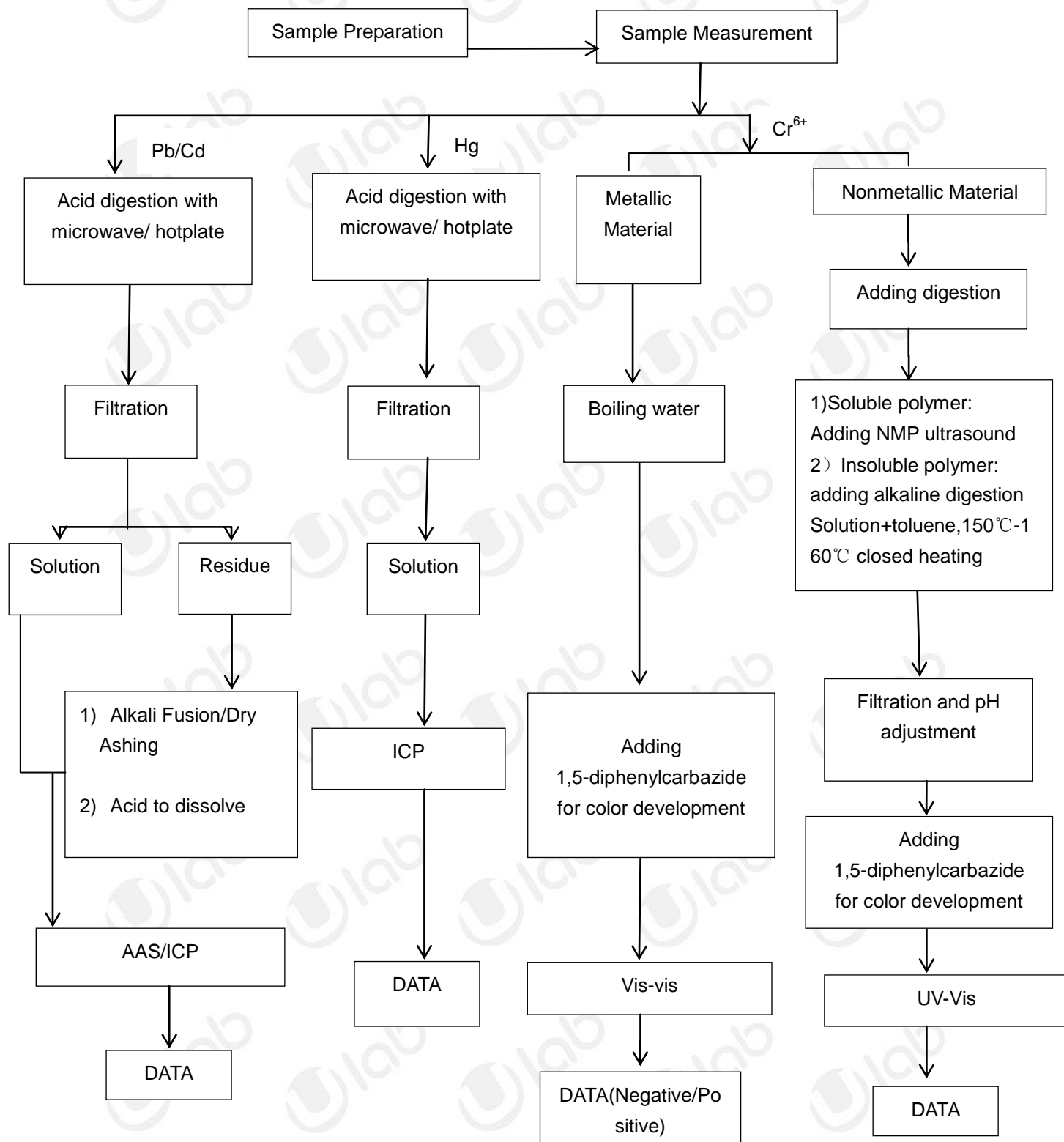
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



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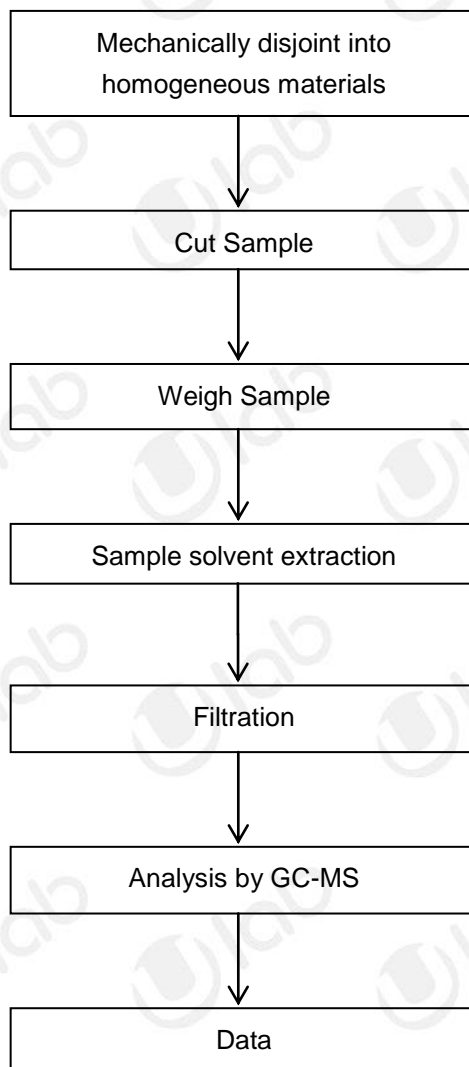
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PBBs/PBDEs Testing Flow Chart or Phthalates Testing Flow Chart



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