

# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 1 of 15

**Applicant:** Dongguan Shengtemei Electroacoustic Technology Co., Ltd**Contact information:** No. 6 Gao Qi Xiang, Shuibei village, Shipai, Dongguan, Dongguan City, Guangdong province**The following sample(s) was (were) submitted and identified by client as:**

Sample Name : Headphones  
Model No. : Play Immersion BB8844 BT109  
Received Date : Aug. 21, 2024  
Testing Period : From Oct. 15, 2024 to Oct. 17, 2024  
Test Request : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by



Max Wu

Checked by



Thea Ye

Approved by



Mark Wu

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 2 of 15

Summary of Test Results (Tested parts are required partially by client):

**TEST REQUEST**

RoHS Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863

To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),  
(1) Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)  
content by screening test and chemical test

(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test

**CONCLUSION**

**PASS**

**PASS**

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# Test Report

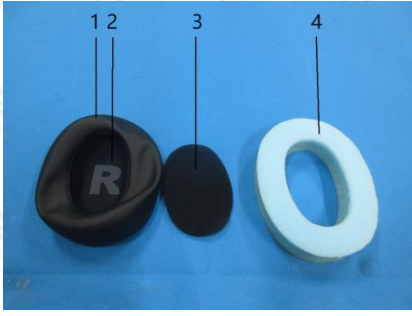
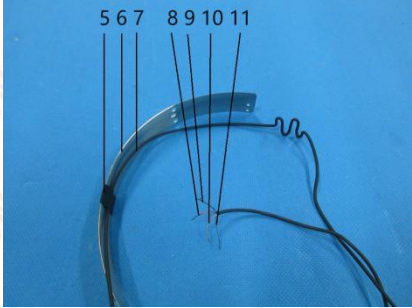
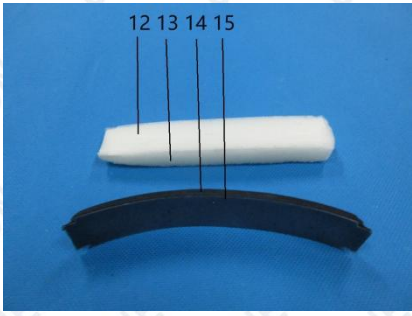
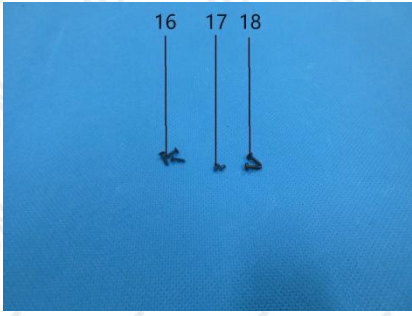
Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 3 of 15

## Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Black PU	
2	Black fabric	
3	Black foam	
4	Light blue foam	
5	Black fabric with adhesive	
6	Silvery metal(head band)	
7	Black soft plastic(wire jacket)	
8	Red metal(enamelled wire)	
9	Blue metal(enamelled wire)	
10	Yellow metal(enamelled wire)	
11	Green metal(enamelled wire)	
12	Transparent plastic	
13	White sponge	
14	Transparent plastic	
15	Black foam	
16	Silvery metal with black coating(screw)	
17	Silvery metal with black coating(screw)	
18	Silvery metal with black coating(screw)	

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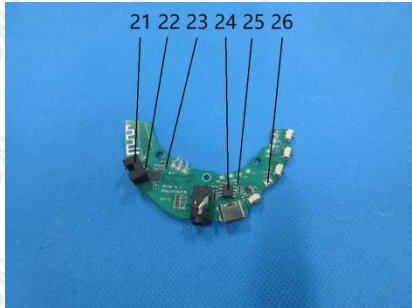
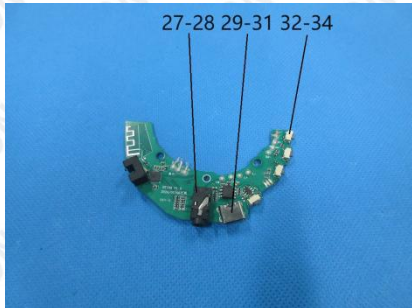

# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 4 of 15

Material No.	Description (Location)	Photo(s) of tested materials
19	Black plastic(shell)	
20	Black plastic	
21	Black foam	
22	Silvery body(crystal oscillator)	
23	Black body(capacitor)	
24	Black body(IC)	
25	Brown body(capacitor)	
26	White body(LED)	
27	Black plastic(shell,headset jack)	
28	Silvery metal(connector,headset jack)	
29	Silvery metal(shell,type-c)	
30	Black plastic(pin holder,type-c)	
31	Silvery metal(pin,type-c)	
32	Beige plastic(shell,button)	
33	Black plastic(button)	
34	Silvery metal(cover,button)	
35	Black plastic with grey printing	
36	Silvery metal	
37	Black plastic	

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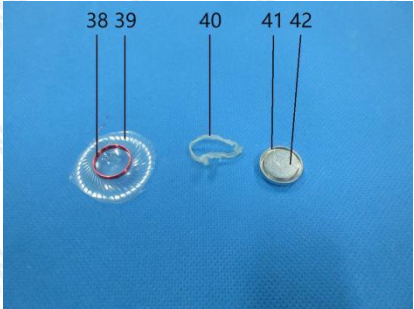
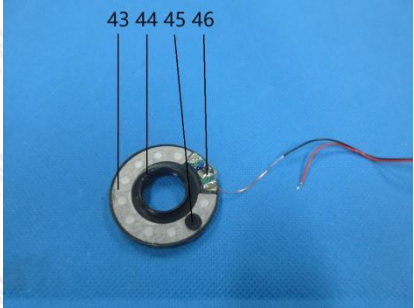
# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 5 of 15

Material No.	Description (Location)	Photo(s) of tested materials
38	Red metal(coil,speaker)	
39	Transparent plastic(film,speaker)	
40	Transparent glue	
41	Silvery metal	
42	Silvery metal(magnet)	
43	White material	
44	Black plastic	
45	Black plastic net	
46	Silvery metal(solder)	
47	Black soft plastic(handle)	
48	Silvery metal(shell,type-c)	
49	Black plastic(pin holder,type-c)	
50	Silvery metal(pin,type-c)	
51	Green PCB	
52	Black soft plastic(cable jacket)	
53	Coppery metal(wire)	
54	Black soft plastic(wire jacket)	
55	Red soft plastic(wire jacket)	
56	Silvery metal(shell,USB)	
57	Silvery metal with golden plating(pin,USB)	
58	White plastic(pin fixtures,USB)	

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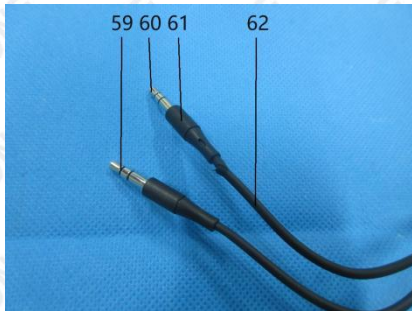
# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 6 of 15

Material No.	Description (Location)	Photo(s) of tested materials
59	Black plastic(ring)	
60	Silvery metal(pin)	
61	Black soft plastic(handle)	
62	Black soft plastic(wire jacket)	

## Test Result(s):

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	—	—	PASS
2	BL	BL	BL	BL	BL	—	—	PASS
3	BL	BL	BL	BL	BL	—	—	PASS
4	BL	BL	BL	BL	BL	—	—	PASS
5	BL	BL	BL	BL	BL	—	—	PASS
6	BL	BL	BL	BL	NA	—	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	NA	—	—	PASS
9	BL	BL	BL	BL	NA	—	—	PASS
10	BL	BL	BL	BL	NA	—	—	PASS
11	BL	BL	BL	BL	NA	—	—	PASS
12	BL	BL	BL	BL	BL	—	—	PASS
13	BL	BL	BL	BL	BL	—	—	PASS
14	BL	BL	BL	BL	BL	—	—	PASS

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 7 of 15

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
15	BL	BL	BL	BL	BL	—	—	PASS
16	BL	BL	BL	BL	NA	—	—	PASS
17	BL	BL	BL	BL	NA	—	—	PASS
18	BL	BL	BL	BL	NA	—	—	PASS
19	BL	BL	BL	BL	BL	—	—	PASS
20	BL	BL	BL	BL	BL	—	—	PASS
21	BL	BL	BL	BL	BL	—	—	PASS
22	BL	BL	BL	BL	BL	—	—	PASS
23	BL	BL	BL	BL	BL	—	—	PASS
24	BL	BL	BL	BL	BL	—	—	PASS
25	BL	BL	BL	BL	BL	—	—	PASS
26	BL	BL	BL	BL	BL	—	—	PASS
27	BL	BL	BL	BL	BL	—	—	PASS
28	BL	BL	BL	BL	NA	—	—	PASS
29	BL	BL	BL	BL	NA	—	—	PASS
30	BL	BL	BL	BL	BL	—	—	PASS
31	BL	BL	BL	BL	NA	—	—	PASS
32	BL	BL	BL	BL	BL	—	—	PASS
33	BL	BL	BL	BL	BL	—	—	PASS
34	BL	BL	BL	BL	NA	—	—	PASS
35	BL	BL	BL	BL	BL	—	—	PASS
36	BL	BL	BL	BL	NA	—	—	PASS
37	BL	BL	BL	BL	BL	—	—	PASS
38	BL	BL	BL	BL	NA	—	—	PASS
39	BL	BL	BL	BL	BL	—	—	PASS
40	BL	BL	BL	BL	BL	—	—	PASS
41	BL	BL	BL	BL	NA	—	—	PASS

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 8 of 15

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
42	BL	BL	BL	BL	NA	—	—	PASS
43	BL	BL	BL	BL	BL	—	—	PASS
44	BL	BL	BL	BL	BL	—	—	PASS
45	BL	BL	BL	BL	BL	—	—	PASS
46	BL	BL	BL	BL	NA	—	—	PASS
47	BL	BL	BL	BL	BL	—	—	PASS
48	BL	BL	BL	BL	NA	—	—	PASS
49	BL	BL	BL	BL	BL	—	—	PASS
50	BL	BL	BL	BL	NA	—	—	PASS
51	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
52	BL	BL	BL	BL	BL	—	—	PASS
53	BL	BL	BL	BL	NA	—	—	PASS
54	BL	BL	BL	BL	BL	—	—	PASS
55	BL	BL	BL	BL	BL	—	—	PASS
56	BL	BL	BL	BL	NA	—	—	PASS
57	BL	BL	BL	BL	NA	—	—	PASS
58	BL	BL	BL	BL	BL	—	—	PASS
59	BL	BL	BL	BL	BL	—	—	PASS
60	X	BL	BL	BL	NA	Pb: 67	—	PASS
61	BL	BL	BL	BL	BL	—	—	PASS
62	BL	BL	BL	BL	BL	—	—	PASS

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 9 of 15

## Remark:

(1) ① Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

③ The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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

## Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than MDL).

② Unit and MDL (Method detection limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	5	5

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.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 10 of 15

## (2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	PASS
15	N.D.	N.D.	N.D.	N.D.	PASS
19	N.D.	N.D.	N.D.	N.D.	PASS
20	N.D.	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	N.D.	N.D.	PASS
22	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
25	N.D.	N.D.	N.D.	N.D.	PASS
26	N.D.	N.D.	N.D.	N.D.	PASS
27	N.D.	N.D.	N.D.	N.D.	PASS
30	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	PASS
33	N.D.	N.D.	N.D.	N.D.	PASS

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 11 of 15

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
35	N.D.	N.D.	N.D.	N.D.	PASS
37	N.D.	N.D.	N.D.	N.D.	PASS
39	N.D.	N.D.	N.D.	N.D.	PASS
40	N.D.	N.D.	N.D.	N.D.	PASS
43	N.D.	N.D.	N.D.	N.D.	PASS
44	N.D.	N.D.	N.D.	N.D.	PASS
45	N.D.	N.D.	N.D.	N.D.	PASS
47	N.D.	N.D.	N.D.	N.D.	PASS
49	N.D.	N.D.	N.D.	N.D.	PASS
51	N.D.	N.D.	N.D.	N.D.	PASS
52	N.D.	N.D.	N.D.	N.D.	PASS
54	N.D.	N.D.	N.D.	N.D.	PASS
55	N.D.	N.D.	N.D.	N.D.	PASS
58	N.D.	N.D.	N.D.	N.D.	PASS
59	N.D.	N.D.	N.D.	N.D.	PASS
61	N.D.	N.D.	N.D.	N.D.	PASS
62	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. MDL= method detection limit.
  3. N.D.=not detected(less than MDL).

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Report No.: U00703241014605E

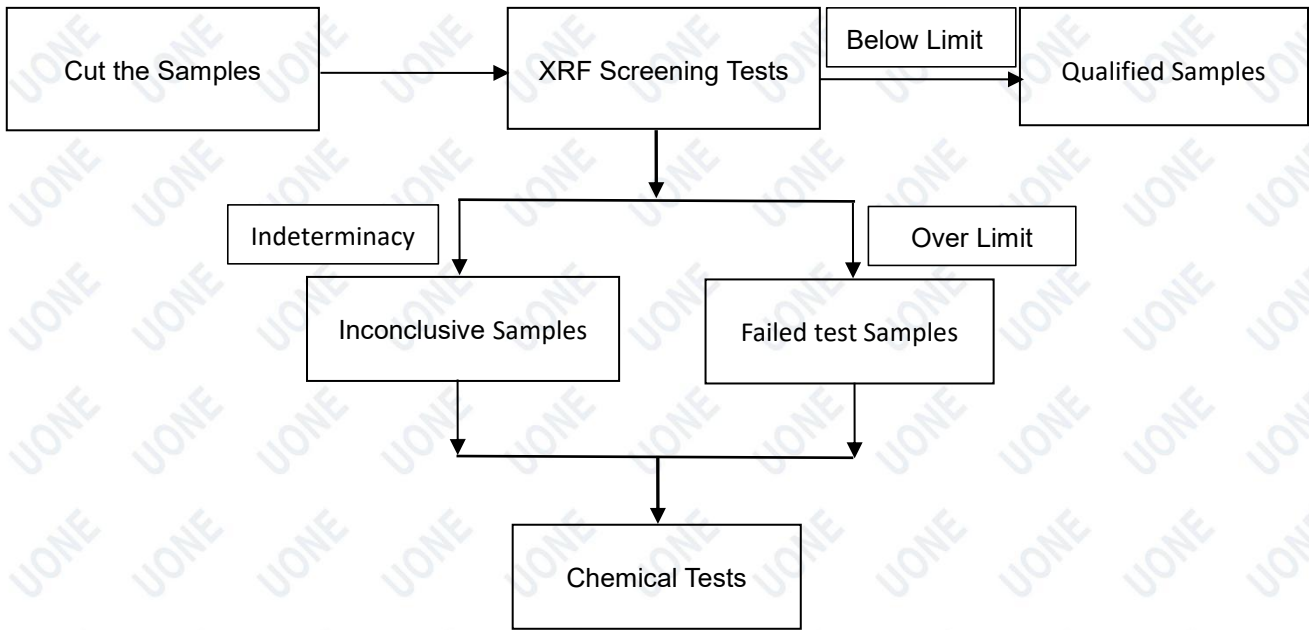
Query Password: QW1398

Date: Oct. 17, 2024

Page 12 of 15

## Test Process Flow

### 1. XRF scan



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# Test Report

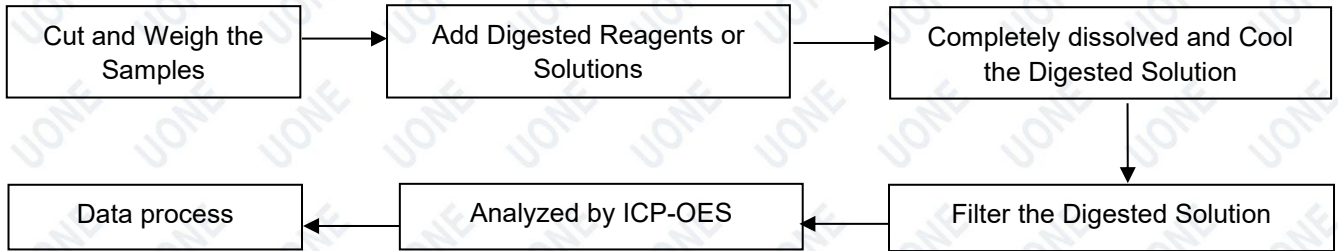
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Query Password: QW1398

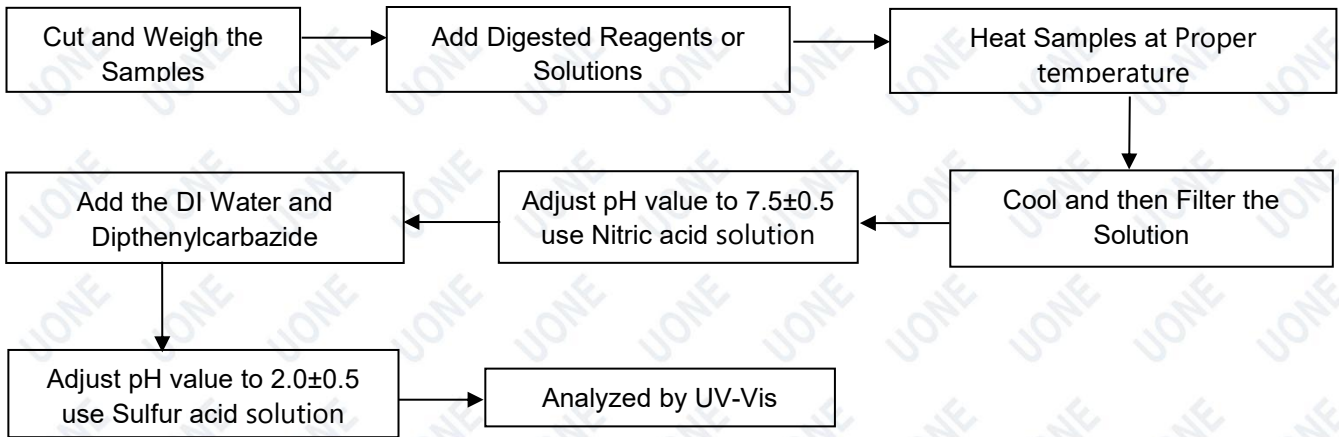
Date: Oct. 17, 2024

Page 13 of 15

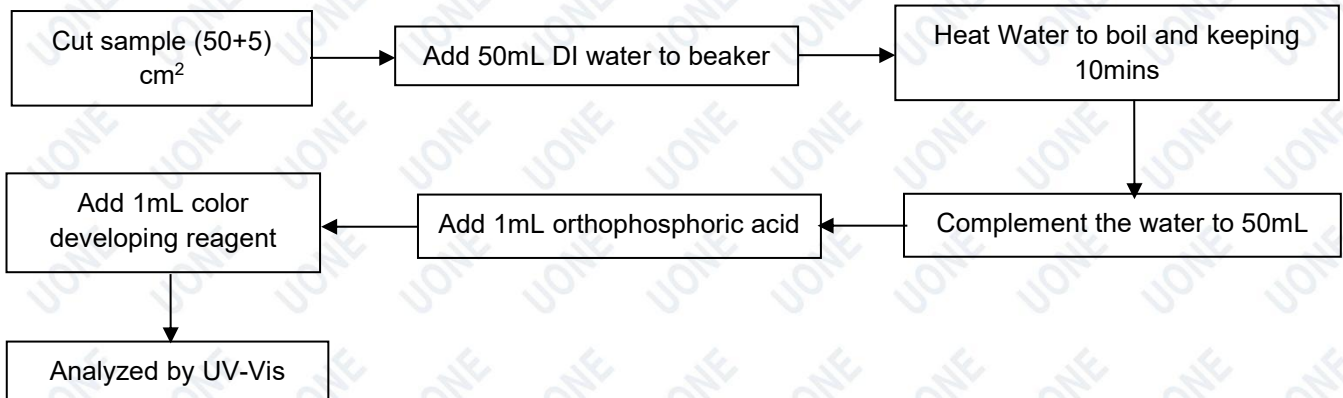
## 2. Lead, Cadmium, Mercury



## 3. Hexavalent Chromium (Non-metal)



## Hexavalent Chromium (Metal)



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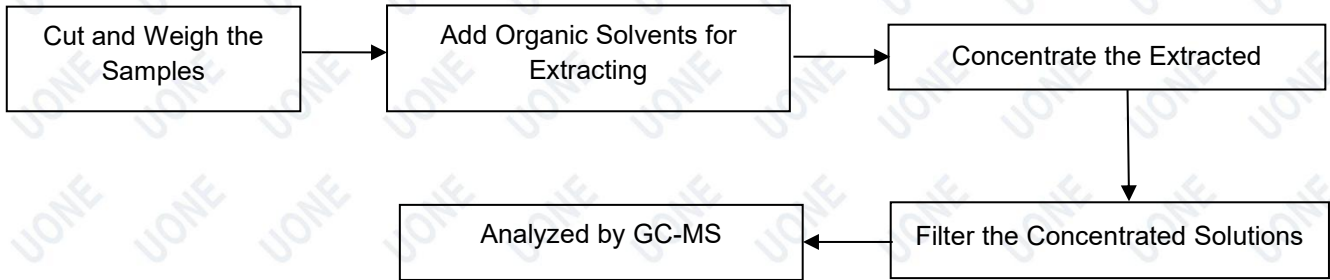
Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 14 of 15

## 4. PBBs & PBDEs, Phthalates



### Photo(s) of Sample:



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

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# Test Report

Report No.: U00703241014605E

Query Password: QW1398

Date: Oct. 17, 2024

Page 15 of 15

## Statement

1. The information listed on the first page of this test report, except the date of receipt, test date, test result and test conclusion, is provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.
2. The test conclusion of this report are only applicable to the test samples submitted for inspection, and the samples submitted for inspection are only kept for 30 days, and the company does not bear other joint and several liabilities other than the test results.
3. The test report shall take effect only with the seal of the company, and this report shall not be deleted or modified.
4. This report shall not be reproduced in whole or in part without the written authorization of the Company.
5. Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
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