

RoHS TEST REPORT

Applicant	Hangzhou Yihan Network Technology Co., Ltd.
Address	Unit 19A07, 18th Floor, T2 Office Tower Runao Business Centre Xiaoshan District, Hangzhou
Manufacturer	Hangzhou Yihan Network Technology Co., Ltd.
Address	Unit 19A07, 18th Floor, T2 Office Tower Runao Business Centre Xiaoshan District, Hangzhou
Sample Name	vacuum cleaner
Model	SW-113
Date of Receipt	Nov. 25, 2025
Date of Test	Nov. 25, 2025 to Dec. 04, 2025
Date of Report	Dec. 23, 2025
Test laboratory	Guangdong KAIXU Testing Technology Co., Ltd.
Test location	Room 215, Building 2, No. 123, Dongcheng Section, Guanlong Road, Dongcheng Street, Dongguan City, Guangdong Province, China

Test Conclusion:

Test Requested	Conclusion
As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent chromium(Cr ⁶⁺), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Dibutyl phthalate (DBP), Butyl benzyl phthalate(BBP), Bis(2-2thylhexyl) phthalate (DEHP) and Diisobutyl phthalate (DIBP) content in the submitted sample(s) in accordance with EU directive 2011/65/EU and revised directive (EU)2015/863 (RoHS2.0) .	PASS

Remark: This report replaces test report No.KTi251125R1112 released on Dec.05, 2025 as the current valid report, the original test report is void.

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

Signed for and on behalf of KAIXU Test International

Tested by: Cathy

Approved by: Martin

Test Method:

1. With reference to IEC 62321-2:2021, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
 - (1) With reference to IEC 62321-3-1:2013, screening by XRF spectroscopy.
 - (2) Wet chemical test method
 - a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - c. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.
 - d. With reference to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
 - e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
3. With reference to IEC 62321-8: 2017, determination of phthalates by GC-MS.

Test Result:

Item	Results of XRF ⁽¹⁾ (mg/kg)					Results of Wet Chemical Test ⁽²⁾ (mg/kg)						
	Pb	Cd	Hg	Cr	Br	Cr ⁶⁺	PBBs	PBDEs	DBP	BBP	DEHP	DIBP
Limit	1000	100	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
No.												
1	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
5	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
6	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
8	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
9	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
10	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
11	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
12	BL	BL	BL	BL	--	--	--	--	--	--	--	--
13	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
14	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	BL	BL	BL	BL	--	--	--	--	--	--	--	--
16	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
17	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
19	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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Item	Results of XRF ⁽¹⁾ (mg/kg)					Results of Wet Chemical Test ⁽²⁾ (mg/kg)						
	Pb	Cd	Hg	Cr	Br	Cr ⁶⁺	PBBs	PBDEs	DBP	BBP	DEHP	DIBP
Limit	1000	100	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
No.												
20	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
21	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
23	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	BL	BL	BL	BL	--	--	--	--	--	--	--	--
26	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
28	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
29	BL	BL	BL	BL	--	--	--	--	--	--	--	--
30	BL	BL	BL	BL	--	--	--	--	--	--	--	--
31	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
32	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
33	BL	BL	BL	BL	--	--	--	--	--	--	--	--
34	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
35	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
36	BL	BL	BL	BL	--	--	--	--	--	--	--	--
37	BL	BL	BL	BL	--	--	--	--	--	--	--	--
38	BL	BL	BL	BL	--	--	--	--	--	--	--	--
39	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
40	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
41	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
42	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
43	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
44	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
45	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
46	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
47	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
48	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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Item	Results of XRF ⁽¹⁾ (mg/kg)					Results of Wet Chemical Test ⁽²⁾ (mg/kg)						
	Pb	Cd	Hg	Cr	Br	Cr ⁶⁺	PBBs	PBDEs	DBP	BBP	DEHP	DIBP
Limit	1000	100	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
No.												
49	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
51	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
52	BL	BL	BL	BL	--	--	--	--	--	--	--	--
53	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
54	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
55	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
56	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
57	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
58	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
59	BL	BL	BL	BL	BL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
60	BL	BL	BL	BL	--	--	--	--	--	--	--	--
61	BL	BL	BL	BL	--	--	--	--	--	--	--	--
62	BL	BL	BL	BL	--	--	--	--	--	--	--	--
63	BL	BL	BL	BL	--	--	--	--	--	--	--	--

Remark:

(1)

Pb=Lead,

Cd=Cadmium,

Hg=Mercury,

Cr=Chromium,

Br=Bromine,

PBBs=Polybrominated biphenyls,

PBDEs=Polybrominated diphenyl ethers.

(2)

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr6+.

(b) Results are obtained by XRF for primary screening, and further 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 the concentration exceeds the below warning value according to IEC62321-3-1:2013(unit: mg/kg).

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

(c) OL=Over Limit, BL=Below Limit, X=inconclusive, LOD=Limit of Detection, NA=not applicable

(d) 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)

(a) mg/kg=ppm=0.0001%, N.D.=not detected(<MDL), NEG= Negative

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Hg	Cd	PBBs	PBDEs	DBP	BBP	DEHP	DIBP
Unit	mg/kg								
MDL	10	10	10	50	50	50	50	50	50

The MDL for single compound of PBBs & PBDEs is 50mg/kg, MDL of Cr⁶⁺ for metal sample is 0.10µg/cm² and MDL of Cr⁶⁺ for polymer & composite sample is 8mg/kg.

(c) Metal sample:

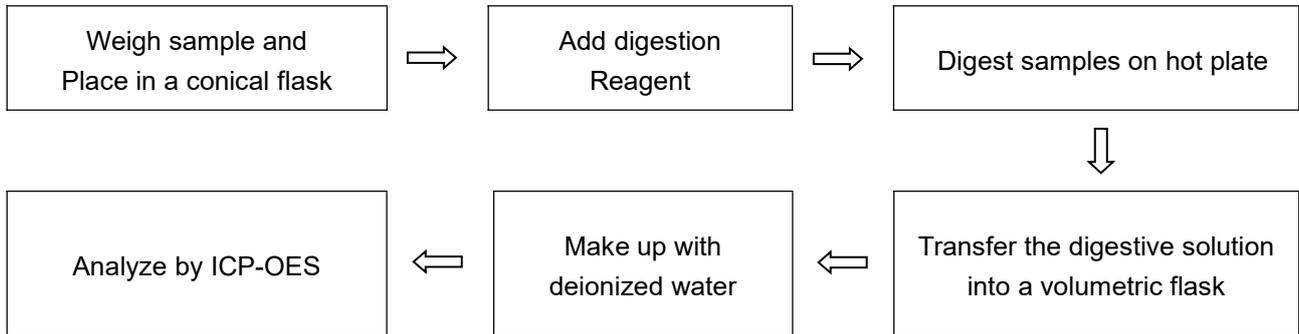
	CrVI concentration	Conclusion
1	> 0.13 µg/cm ²	Positive
2	< 0.10 µg/cm ²	Negative
3	0.10 µg/cm ² ~ 0.13 µg/cm ²	Inconclusive

unavoidable coating variations may influence the determination

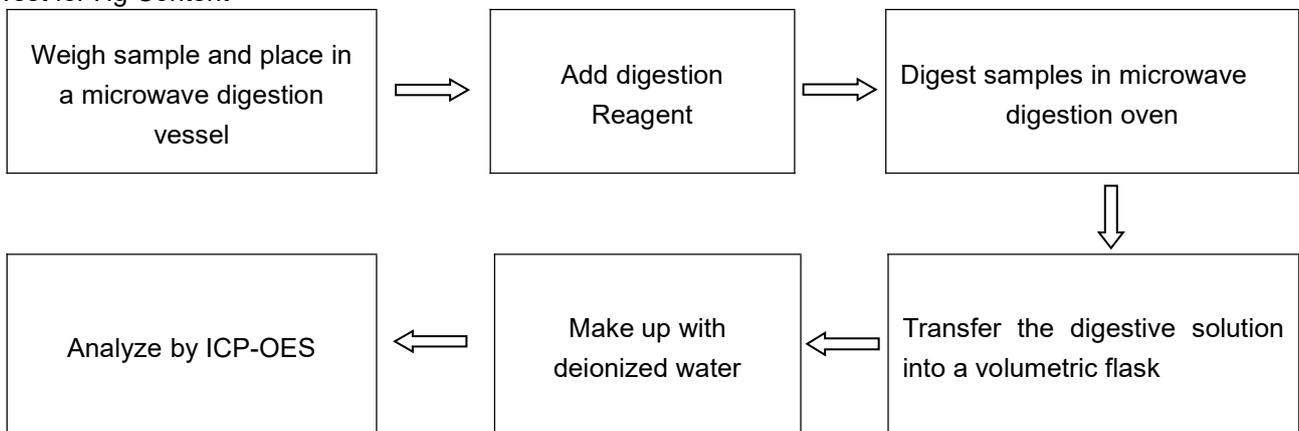
Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.

Appendix I**Test Process:**

1. Test for Cd/Pb Content

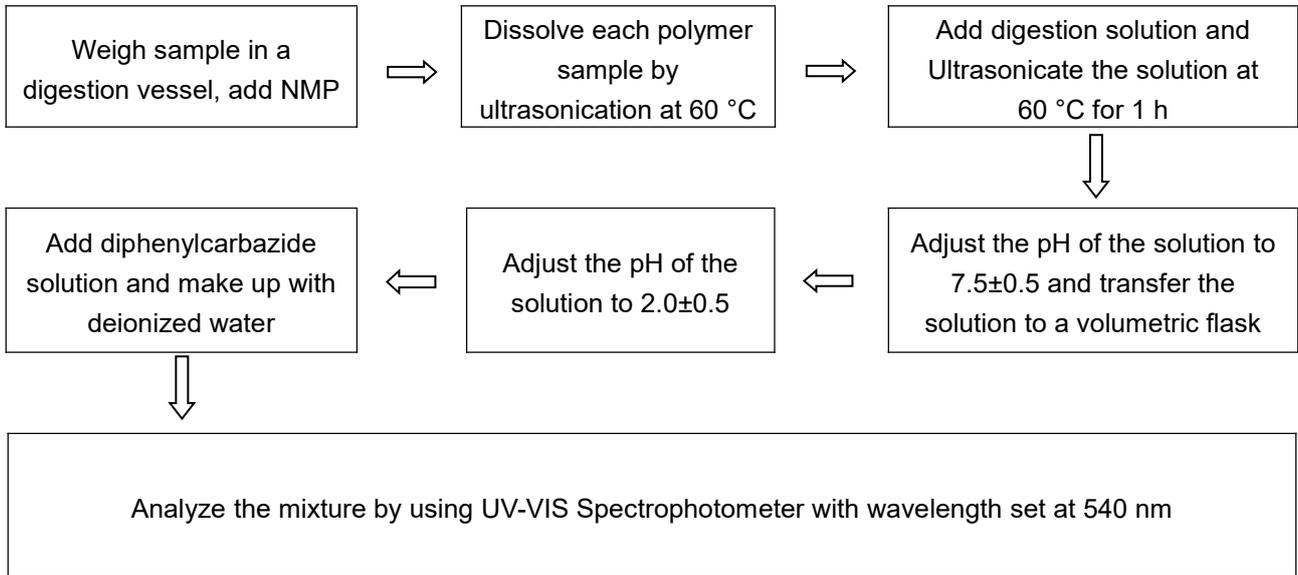


2. Test for Hg Content

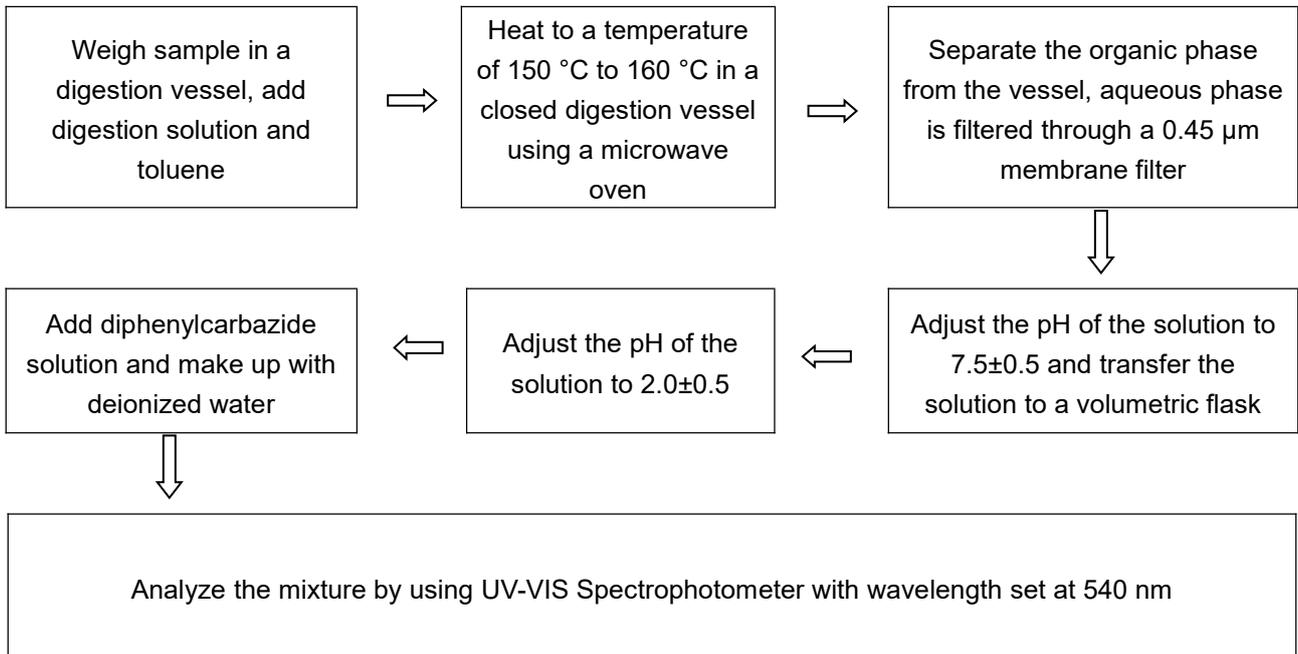


3. Test for Chromium (VI) Content

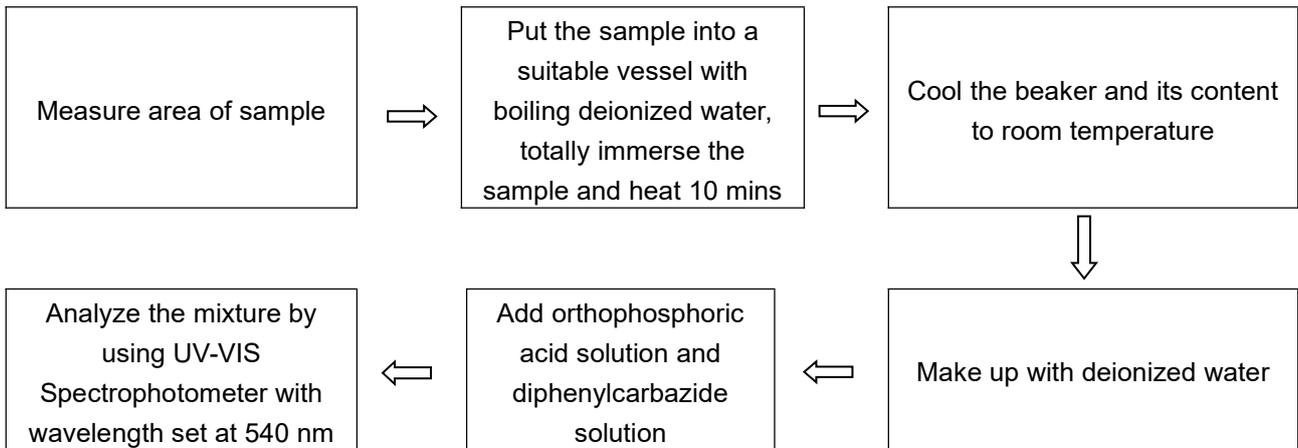
Soluble polymers:



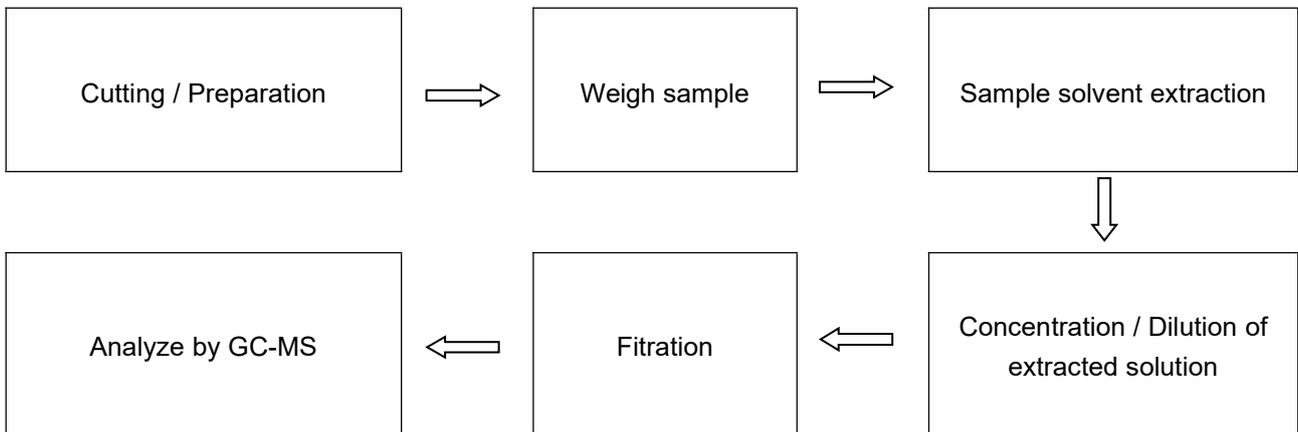
Insoluble/unknown polymers and electronics without Sb



Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBBs, PBDEs Content



Sample Description:

Material No.	Description
1	Black plastic component
2	Purple plastic component
3	Black plastic brush
4	Light grey brush
5	Black plastic housing
6	Black printed white plastic sticker
7	Black plastic component
8	Semi-transparent black plastic component
9	Red plastic wire insulation
10	Black plastic wire insulation
11	Red plastic wire insulation
12	Silver metal wire core
13	Blue plastic outer insulation
14	White plastic terminal
15	Silver grey metal shell
16	Black plastic shell
17	Semi-transparent plastic component
18	White non-woven fabric
19	Black plastic wire insulation
20	Transparent LED
21	Transparent plastic component
22	Grey plastic component
23	Transparent plastic cover
24	Black plastic sheet
25	Silver metal screw
26	Black plastic wire insulation
27	Black plastic frame
28	Matte white plastic frame
29	Silver metal shaft
30	Copper enameled wire
31	Black plastic wire insulation

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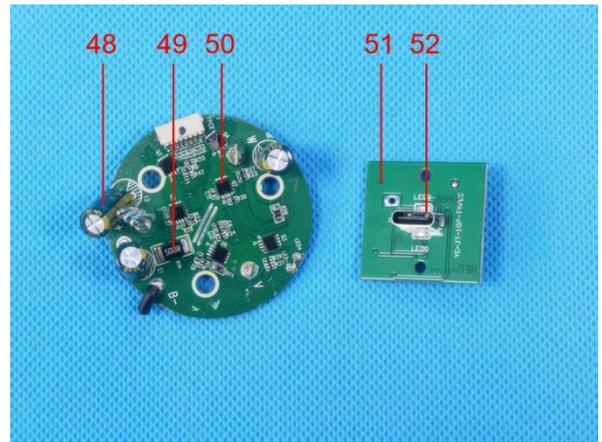
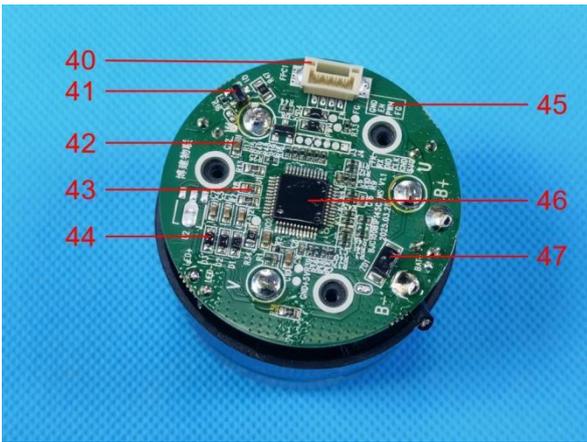
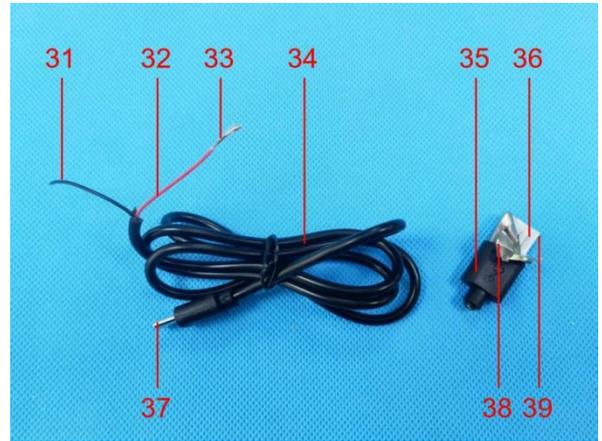
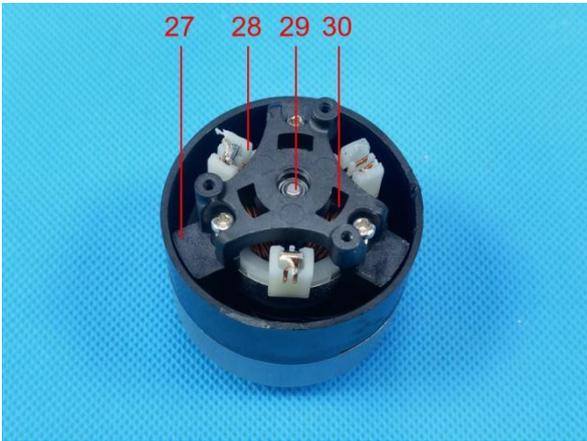
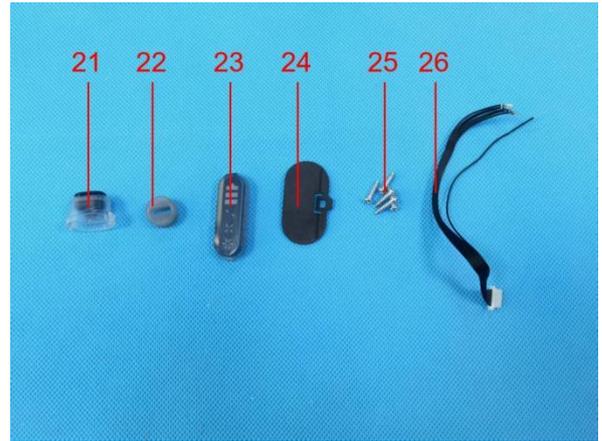
Material No.	Description
32	Red plastic wire insulation
33	Copper metal wire core
34	Black plastic wire insulation
35	Black plastic USB insulation
36	Silver metal contact pin
37	Silver metal interface
38	Silver metal USB
39	White plastic fixing
40	Apricot plastic terminal
41	Black transistor
42	Brown capacitor
43	Black resistor
44	Black diode
45	Green PCB
46	Black IC
47	Black diode
48	Green/yellow plastic insulation
49	Black resistor
50	Black IC
51	Green PCB
52	Silver metal interface
53	Black IC
54	Grey inductor
55	Black plastic switch
56	Green PCB
57	Green PCB
58	White LED
59	Yellow LED
60	Silver metal solder
61	Silver metal solder
62	Silver metal solder
63	Silver metal solder

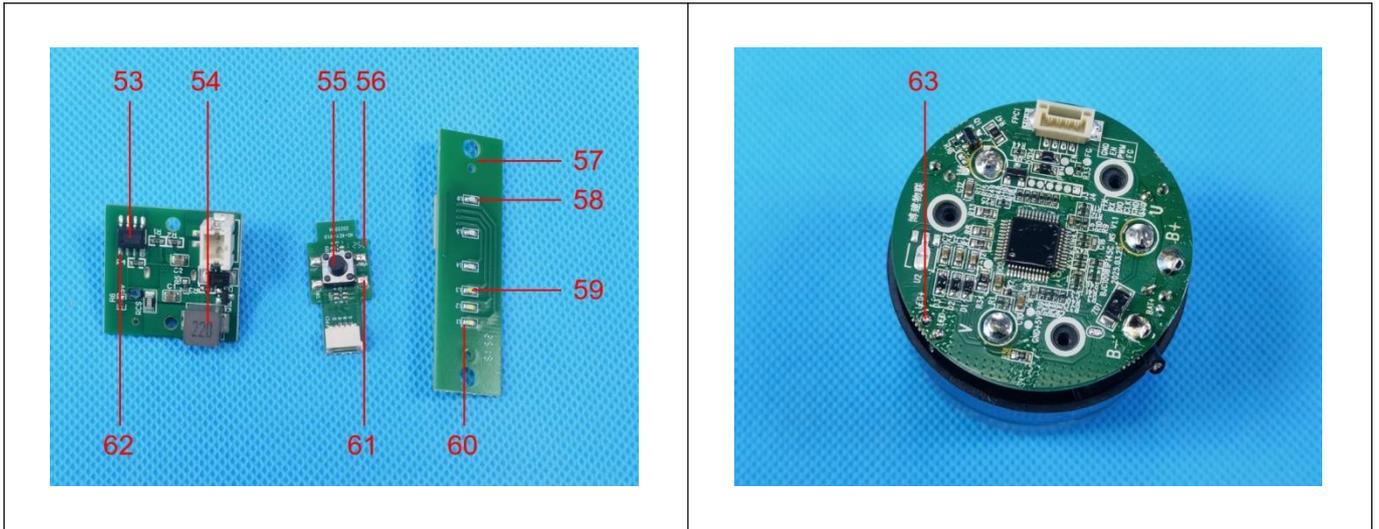
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Tested sample photos









-----THE END OF REPORT-----