



# TEST REPORT

REPORT No.: **DTI20200952**

Date: 2020-05-28

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Applicant Company Name: Shenzhen Maikejie Technology Co.,Ltd.

Applicant Company Address: 301A, 5# Building, Furong Road, Gushu Community, Xixiang Street, Bao'an District, Shenzhen 518126, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : Wireless earphones  
Model NO. : M31  
Additional models : M32,M9S,Y1,M27,M28,M29,M35,M36,M38  
Sample Receiving Date : May 22,2020  
Testing Period : From May 22,2020 to May 28,2020  
Results : Please refer to next page(s).

## Summary of Test Results:

### TEST REQUEST

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU ([RoHS 2.0](#))

Pass

Signed for and on behalf of  
DTI

Approved by: Tommy Jiang  
lab manager

### CONCLUSION



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**Results:**

**1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF**

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

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black Plastic Cover	BL	BL	BL	BL	BL
2	Black Plastic Case	BL	BL	BL	BL	BL
3	Black Plastic Cover	BL	BL	BL	BL	BL
4	Silver Magnet	BL	BL	BL	BL	BL
5	Black Plastic Case	BL	BL	BL	BL	BL
6	Silver Magnet	BL	BL	BL	BL	BL
7	Silver Metal Shaft	BL	BL	BL	BL	BL
8	PCB	BL	BL	BL	BL	BL
9	Solder Point	BL	BL	BL	BL	BL
10	Gold Metal Terminal	X	BL	BL	BL	BL
11	Black Ceramic Components	BL	BL	BL	BL	BL
12	Silver Metal Pin	BL	BL	BL	BL	BL
13	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
14	Patch Coil Inductor	BL	BL	BL	BL	BL
15	Copper Winding	BL	BL	BL	BL	BL
16	LED	BL	BL	BL	BL	BL
17	Silver Metal Case (Micro)	BL	BL	BL	BL	BL
18	Internal Black Plastic (Micro)	BL	BL	BL	BL	BL
19	Silver Metal Needles	BL	BL	BL	BL	BL
20	Double Faced Adhesive Tape	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Yellow Plastic Sticker	BL	BL	BL	BL	BL
22	Electrode Metal Sheet	BL	BL	BL	BL	BL
23	Aluminum Laminated Films	BL	BL	BL	BL	BL
24	Polymer Membranes	BL	BL	BL	BL	BL
25	Green Plastic Sticker	BL	BL	BL	BL	BL
26	White Plastic Sticker	BL	BL	BL	BL	BL
27	Copper Foil	BL	BL	BL	BL	BL
28	Aluminum Foil	BL	BL	BL	BL	BL
29	PCB	BL	BL	BL	BL	X
30	Solder Point	BL	BL	BL	BL	BL
31	Black Ceramic Body Chip	BL	BL	BL	BL	BL
32	Patch Resistor	BL	BL	BL	BL	BL
33	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
34	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
35	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
36	Wire Internal Metal Wire	BL	BL	BL	BL	BL
37	Black Plastic Cover	BL	BL	BL	BL	BL
38	Copper Foil	BL	BL	BL	BL	BL
39	Black Plastic Case	BL	BL	BL	BL	BL
40	Silver Magnet	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Black Horn Net	BL	BL	BL	BL	BL
42	Black Soft Rubber (Earplugs)	BL	BL	BL	BL	BL
43	Double Faced Adhesive Tape	BL	BL	BL	BL	BL
44	Silver Metal Cover (Horn)	BL	BL	BL	BL	BL
45	Transparent Plastic (Horn)	BL	BL	BL	BL	BL
46	Copper Wire (Horn)	BL	BL	BL	BL	BL
47	Silver Magnet (Horn)	BL	BL	BL	BL	BL
48	Silver Metal Pedestal (Horn)	BL	BL	BL	BL	BL
49	Solder Point	BL	BL	BL	BL	BL
50	Blue Adhesive	BL	BL	BL	BL	BL
51	Red Wire Outer Skin	BL	BL	BL	BL	BL
52	Wire Internal Metal Wire	BL	BL	BL	BL	BL
53	White Tape	BL	BL	BL	BL	BL
54	Yellow Plastic Sticker	BL	BL	BL	BL	BL
55	Electrode Metal Sheet	BL	BL	BL	BL	BL
56	Aluminum Laminated Films	BL	BL	BL	BL	BL
57	Polymer Membranes	BL	BL	BL	BL	BL
58	Green Plastic Sticker	BL	BL	BL	BL	BL
59	White Plastic Sticker	BL	BL	BL	BL	BL
60	Copper Foil	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	Aluminum Foil	BL	BL	BL	BL	BL
62	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
63	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
64	Wire Internal Metal Wire	BL	BL	BL	BL	BL
65	Black Sponge Viscose	BL	BL	BL	BL	BL
66	PCB	BL	BL	BL	BL	X
67	Solder Point	BL	BL	BL	BL	BL
68	Black Ceramic Body Chip	BL	BL	BL	BL	BL
69	Patch Resistor	BL	BL	BL	BL	BL
70	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
71	Patch LED	BL	BL	BL	BL	BL
72	SMD Components	BL	BL	BL	BL	BL
73	Gold Metal Terminal	X	BL	BL	BL	BL
74	Silver Metal Components	BL	BL	BL	BL	BL
75	Gold Metal Terminal	X	BL	BL	BL	BL
76	Patch Resistor	BL	BL	BL	BL	BL
77	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
78	Crystal Oscillator	BL	BL	BL	BL	BL

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Remark:

- (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.

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	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit  
OL = Over Limit  
X = Inconclusive

- (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.

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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

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 diphenylethers (PBDEs)	≤1000

(4) 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.

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## 2、The Test Results of Chemical Method:

### Test method:

#### Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

#### Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

#### Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

#### PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

#### DEHP, BBP, DBP&.DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of Pb

Item	Unit	MDL	Results			Limit
			10*	73*	75*	
Lead(Pb)	mg/kg	2	11693	15301	13943	≤1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- \*= the weight of lead in the copper alloy does not exceed 4%(40000ppm).

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## 2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results		Limit
			29	66	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	≤1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	/

### Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit

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

Item	Unit	MDL	Results					Limit
			1	2	3	5	8	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			11	13	14	16	18	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			20	21	23	24	25	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			26	29	31	32	33	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			34	35	37	39	41	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			42	43	45	50	51	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			53	54	56	57	58	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			59	62	63	65	66	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			68	69	70	71	72	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results		Limit
			76	77	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Flow chart appendix is included.
- Photo appendix is included.

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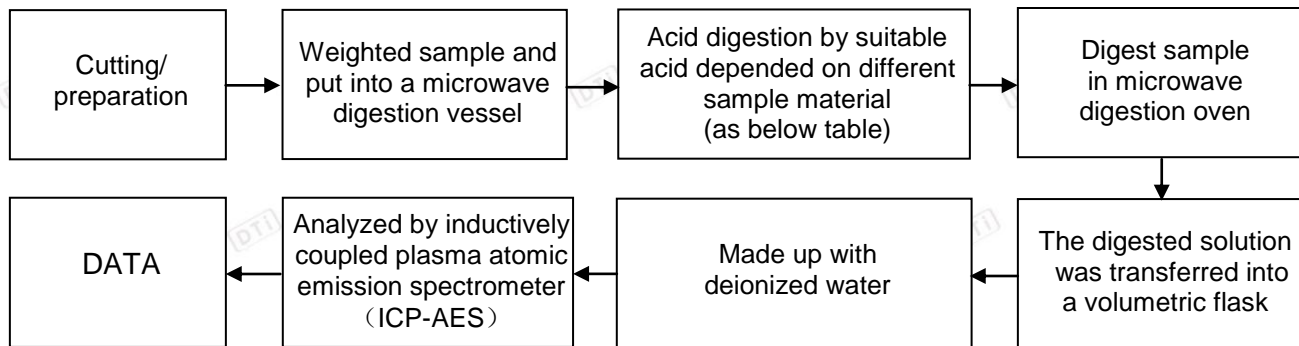
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## Appendix I

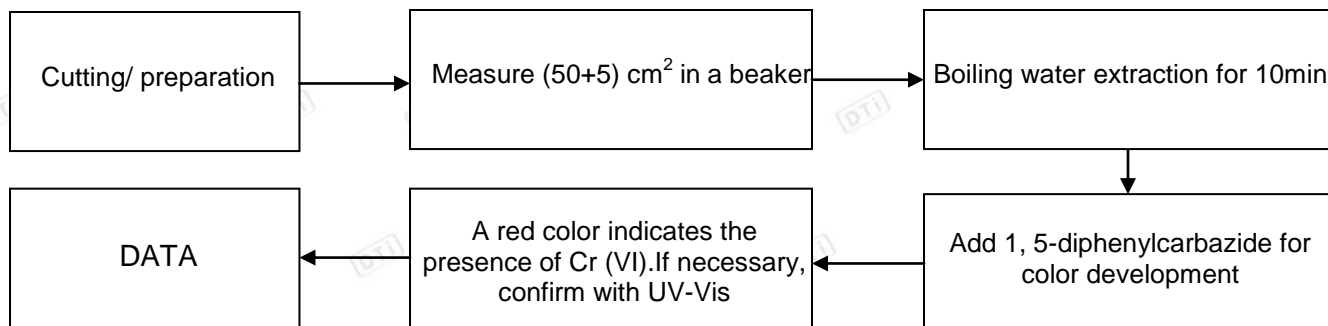
### Test Flow chart

#### 1. Test Flowchart for Cd / Pb /Hg content

These samples were dissolved totally by pre-conditioning method according to below flow chart.



#### 2. Test Flowchart for Cr<sup>6+</sup> content (Metal material)



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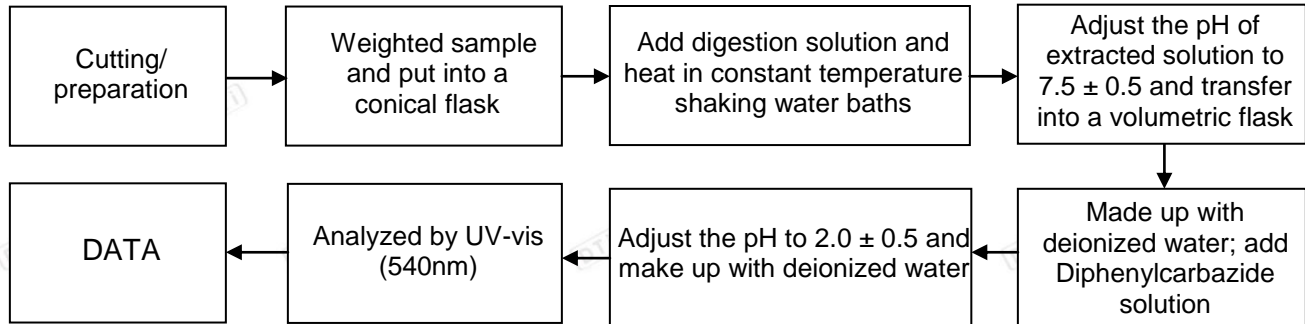
# TEST REPORT

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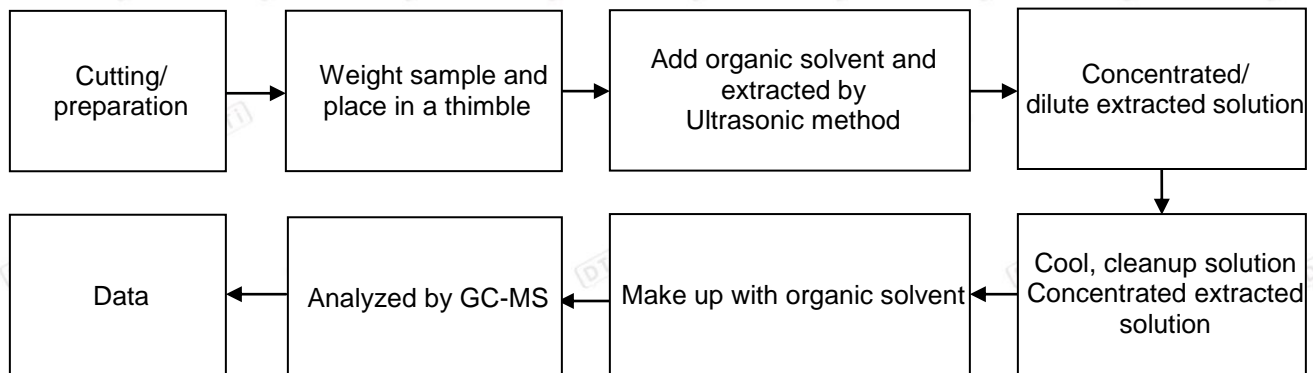
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## 3. Test Flowchart for Cr<sup>6+</sup> content (Non-metal material)



## 4. Test Flowchart for PBBs & PBDEs content



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## 5. Test Flowchart for DEHP, BBP, DBP & DIBP content

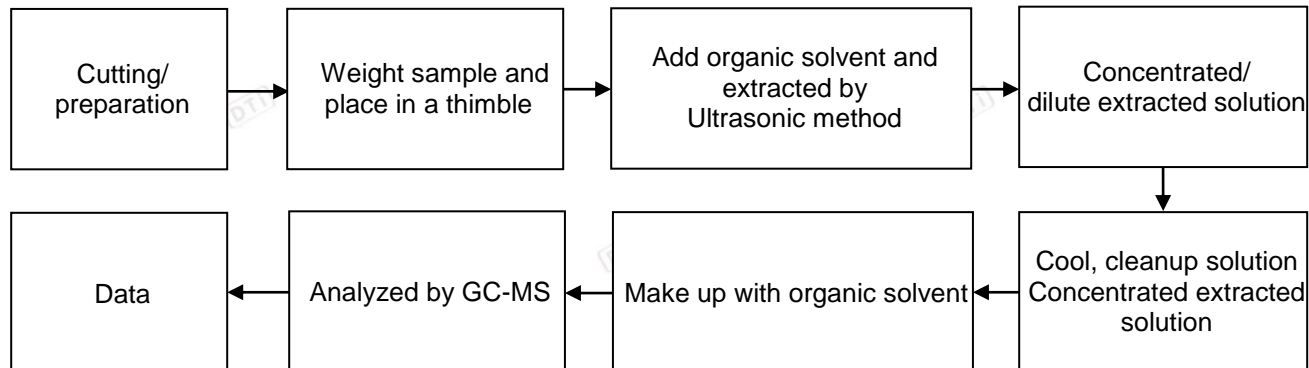


Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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## Appendix II

Photograph of Sample



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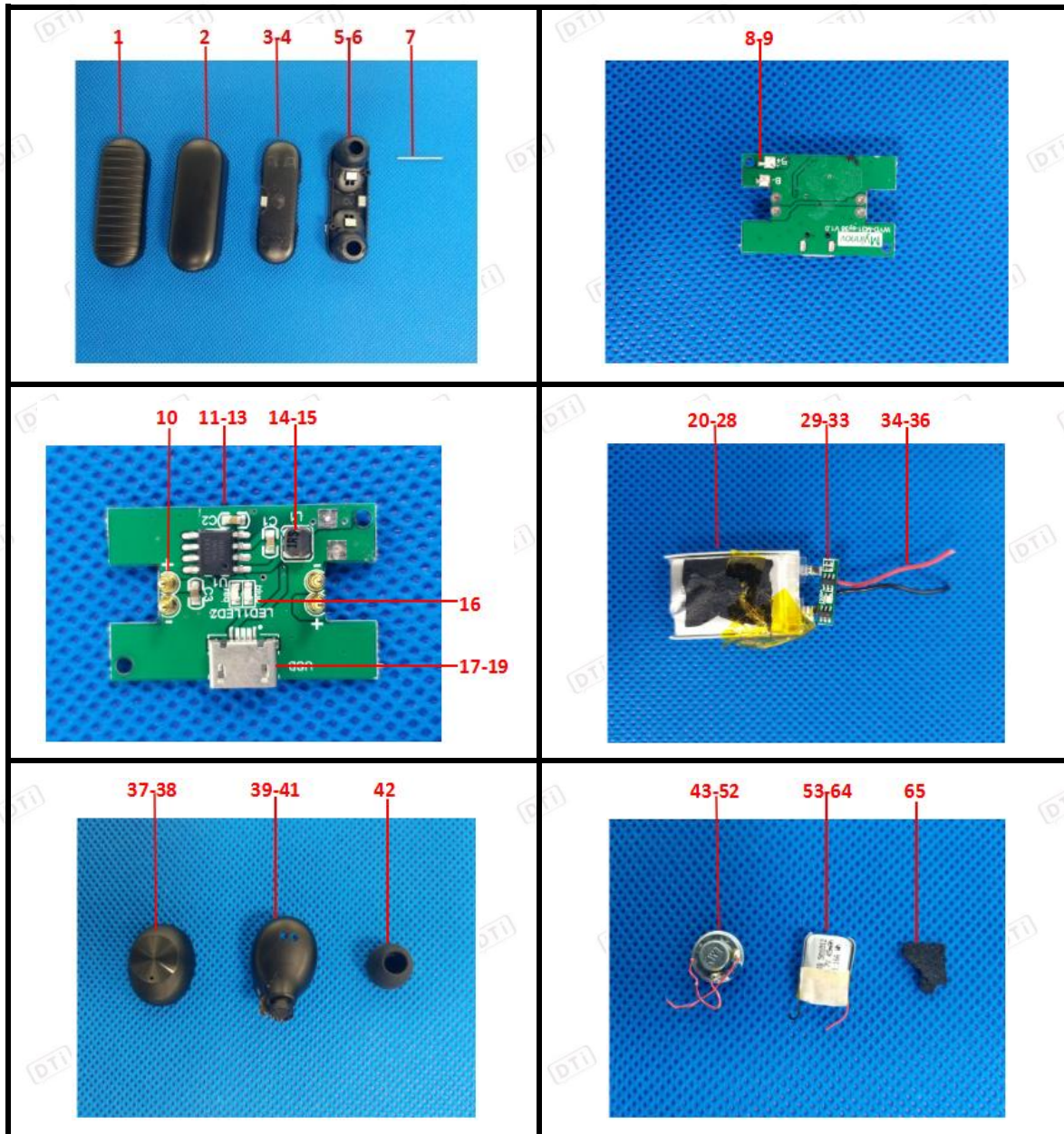
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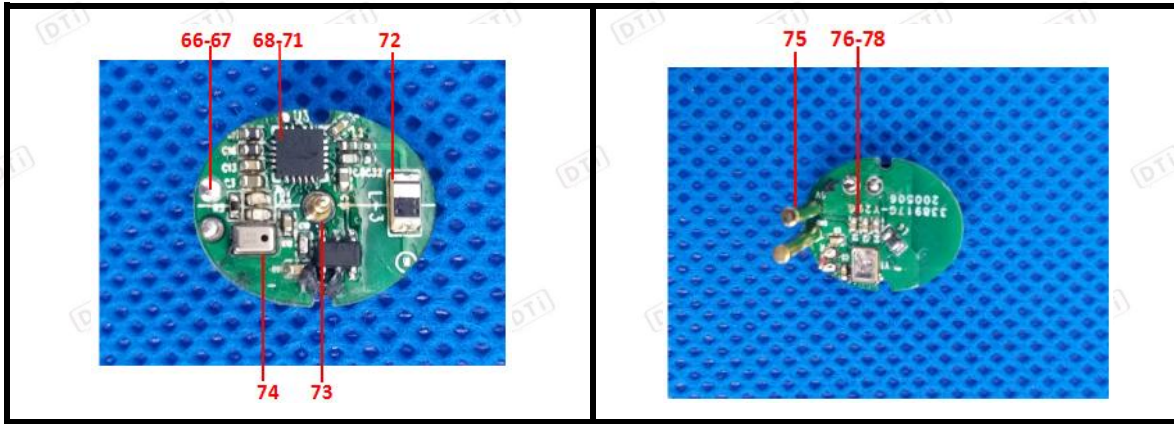


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