



TEST REPORT

Report No...... : WTX26X05150590C
Applicant..... : Shenzhen Youge Intelligent Co., Ltd
Address..... : Unit 702, unit 6, Taoyuanju 14 District, Taoyuan community, Xixiang street, Bao'an District, Shenzhen
Manufacturer..... : Shenzhen Youge Intelligent Co., Ltd
Address..... : Unit 702, unit 6, Taoyuanju 14 District, Taoyuan community, Xixiang street, Bao'an District, Shenzhen
Sample Name..... : Smart Watch Sleep TWS headset
Model No. : X10PRO
Reference Model No. : NA
Brand..... : callmusic
Test Requested..... : In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863, to determine the 10 restricted substances content in the submitted sample.
Test Conclusion..... : **Pass** (Based on the performed tests on the submitted samples, the results comply with the requirement of EU RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863).
Date of Receipt sample..... : 2026-05-29
Testing period..... : 2026-05-29 ~ 2026-06-04
Date of Issue..... : 2026-06-30
Test Result..... : Refer to next page (s)

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China
Tel:+86-755-33663308 Fax:+86-755-33663309 E-mail:sem@waltek.com.cn

Signed for and on behalf of
Waltek Testing Group (Shenzhen) Co., Ltd.

Hugo Chen

Hugo. Chen



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Test Method:

- IEC 62321-3-1:2026, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry (XRF)
- IEC 62321-4:2013+AMD1:2017 CSV for mercury (Hg), analyzed by ICP-OES
- IEC 62321-5:2013 for lead (Pb) and cadmium (Cd), analyzed by ICP-OES
- IEC 62321-7-2:2017 and/or IEC 62321-7-1:2015 for hexavalent chromium (Cr⁶⁺), analyzed by UV-Vis
- IEC 62321-6:2015 for PBBs and PBDEs, analyzed by GC-MS
- IEC 62321-8:2017 for phthalates, analyzed by GC-MS

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Sample Photo:





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Test Results:

1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs

No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
1	Silvery metal PIN	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
2	Silvery metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
3	Black rubber	BL	BL	BL	BL	BL	NA
4	Black cladding metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : ND
5	Silvery magnet	BL	BL	BL	BL	BL	NA
6	Silvery metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
7	Black plastic	BL	BL	BL	BL	BL	NA
8	Black plastic	BL	BL	BL	BL	BL	NA
9	Silvery metal	IN	BL	BL	IN	NA	Pb:810 Cr ⁶⁺ : Negative
10	Dark glass (display screen)	BL	BL	BL	BL	BL	NA
11	Golden FPC (display screen)	BL	BL	BL	BL	BL	NA
12	Translucent plastic film plate 1 (display screen)	BL	BL	BL	BL	BL	NA



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
13	Translucent plastic film plate 2 (display screen)	BL	BL	BL	BL	BL	NA
14	Translucent plastic film plate 3 (display screen)	BL	BL	BL	BL	BL	NA
15	Transparent hard plastic plate (display screen)	BL	BL	BL	BL	BL	NA
16	White plastic film plate (display screen)	BL	BL	BL	BL	BL	NA
17	White plastic frame (display screen)	BL	BL	BL	BL	BL	NA
18	Silvery metal cover w/black sponge (microphone)	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
19	Silvery magnet (microphone)	BL	BL	BL	BL	BL	NA
20	Green cladding PCB piece (microphone)	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
21	Silvery metal shell (microphone)	BL	BL	BL	BL	NA	NA
22	Red plastic wire jacket (microphone)	BL	BL	BL	BL	BL	NA
23	Blue plastic wire jacket (microphone)	BL	BL	BL	BL	BL	NA
24	Blue cladding PCB board	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
25	Gray solid material (Inductance)	BL	BL	BL	BL	BL	NA
26	Black plastic	BL	BL	BL	BL	BL	NA
27	Silvery metal body (Crystal oscillator)	BL	BL	BL	BL	NA	NA
28	Black IC SMD	BL	BL	BL	BL	BL	NA
29	Silvery metal sheet	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
30	Silvery metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
31	Black FPC	BL	BL	BL	BL	BL	NA
32	Solder	BL	BL	BL	BL	NA	NA
33	Yellow plastic film adhesive tape (battery)	BL	BL	BL	BL	BL	NA
34	Green cladding PCB board (battery)	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
35	Solder (battery)	BL	BL	BL	BL	NA	NA
36	Black plastic wire jacket	BL	BL	BL	BL	BL	NA



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
37	Purple plastic wire jacket	BL	BL	BL	BL	BL	NA
38	Black cloth	BL	BL	BL	BL	BL	NA
39	White plastic film	BL	BL	BL	BL	BL	NA
40	Silvery conductive cloth tape	BL	BL	BL	BL	BL	NA
41	Black rubber	BL	BL	BL	BL	BL	NA
42	Black plastic	BL	BL	BL	BL	BL	NA
43	Silvery metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
44	Transparent plastic film	BL	BL	BL	BL	BL	NA
45	Coppery metal coil	BL	BL	BL	BL	NA	NA
46	Solder	BL	BL	BL	BL	NA	NA
47	Black plastic wire jacket	BL	BL	BL	BL	BL	NA
48	Red plastic wire jacket	BL	BL	BL	BL	BL	NA



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
49	Yellow plastic film adhesive tape (battery)	BL	BL	BL	BL	BL	NA
50	Solder	BL	BL	BL	BL	NA	NA
51	Black plastic wire jacket	BL	BL	BL	BL	BL	NA
52	Red plastic wire jacket	BL	BL	BL	BL	BL	NA
53	Black resistance SMD	BL	BL	BL	BL	BL	NA
54	Silvery metal body (Crystal oscillator)	BL	BL	BL	BL	NA	NA
55	Silvery metal body (microphone)	BL	BL	BL	BL	NA	NA
56	Black IC SMD	BL	BL	BL	BL	BL	NA
57	Green cladding PCB board	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
58	White plastic	BL	BL	BL	BL	BL	NA
59	White plastic	BL	BL	BL	BL	BL	NA
60	White soft plastic cable jacket	BL	BL	BL	BL	BL	NA



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
61	Black plastic wire jacket	BL	BL	BL	BL	BL	NA
62	White plastic wire jacket	BL	BL	BL	BL	BL	NA
63	White plastic	BL	BL	BL	BL	BL	NA
64	Silvery magnet	BL	BL	BL	BL	BL	NA
65	Golden cladding metal PIN	BL	BL	BL	BL	NA	NA
66	White plastic (USB Type-A)	BL	BL	BL	BL	NA	NA
67	Silvery metal shell (USB Type-A)	BL	BL	BL	BL	NA	NA
68	Golden cladding metal PIN (USB Type-A)	BL	BL	BL	BL	NA	NA
69	White soft plastic plug	BL	BL	BL	BL	BL	NA
70	Solder	BL	BL	BL	BL	NA	NA
71	Brown rubber	BL	BL	BL	BL	BL	NA
72	Coppery cladding metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : ND



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No.	Part Description (See Photograph of parts tested)	Result of XRF					Result of Chemical Testing (mg/kg)
		Pb	Cd	Hg	Cr	Br	
73	Gray rubber	BL	BL	BL	BL	BL	NA
74	Silvery metal	BL	BL	BL	IN	NA	Cr ⁶⁺ : Negative
75	White plastic	BL	BL	BL	BL	BL	NA
76	White plastic	BL	BL	BL	BL	BL	NA

2. Phthalates (DEHP, BBP, DBP, DIBP)

Serial No.	Part No. (See Photograph of parts tested)	Result (mg/kg)			
		DIBP	DBP	BBP	DEHP
T01	3+71 [△]	ND	ND	ND	ND
T02	5+7+8 [△]	ND	ND	ND	ND
T03	10+11+12 [△]	ND	ND	ND	ND
T04	13+14+15 [△]	ND	ND	ND	ND
T05	16+17 [△]	ND	ND	ND	ND
T06	19+20 [△]	ND	ND	ND	ND
T07	22+23 [△]	ND	ND	ND	ND
T08	24+25+26 [△]	ND	ND	ND	ND
T09	28+31+34 [△]	ND	ND	ND	ND
T10	33+44+49 [△]	ND	ND	ND	ND
T11	36+37 [△]	ND	ND	ND	ND
T12	38+39+40 [△]	ND	ND	ND	ND
T13	41	ND	ND	ND	ND
T14	42+53+56 [△]	ND	ND	ND	ND
T15	47+48 [△]	ND	ND	ND	ND
T16	51+52 [△]	ND	ND	ND	ND
T17	57+58+59 [△]	ND	ND	ND	ND
T18	60+69 [△]	ND	ND	ND	ND
T19	61+62 [△]	ND	ND	ND	ND
T20	63+64 [△]	ND	ND	ND	ND
T21	73	ND	ND	ND	ND
T22	75+76 [△]	ND	ND	ND	ND
T23	1	--	--	--	--

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Serial No.	Part No. (See Photograph of parts tested)	Result (mg/kg)			
		DIBP	DBP	BBP	DEHP
T24	2	--	--	--	--
T25	4	--	--	--	--
T26	6	--	--	--	--
T27	9	--	--	--	--
T28	18	--	--	--	--
T29	21	--	--	--	--
T30	27	--	--	--	--
T31	29	--	--	--	--
T32	30	--	--	--	--
T33	32	--	--	--	--
T34	35	--	--	--	--
T35	43	--	--	--	--
T36	45	--	--	--	--
T37	46	--	--	--	--
T38	50	--	--	--	--
T39	54	--	--	--	--
T40	55	--	--	--	--
T41	65	--	--	--	--
T42	66	--	--	--	--
T43	67	--	--	--	--
T44	68	--	--	--	--
T45	70	--	--	--	--
T46	72	--	--	--	--
T47	74	--	--	--	--



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Note:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2026 (unit: mg/kg)

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

BL= Below Limit OL= Over Limit LOD = Limit of Detection -- = Not Regulated

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (3) The XRF screening test for RoHS elements – the reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) mg / kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimeter.
- (5) ND = Not Detected, less than the value of Method Detection Limit.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit, it was not needed to conduct the chemical testing.
- (7) NA = "--"=Not Regulated.
- (8) MDL= Method Detection Limit in chemical test.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE
Units	mg/kg	mg/kg	mg/kg	mg/kg	$\mu\text{g}/\text{cm}^2$	mg/kg	mg/kg
MDL	10	10	10	10	0.1	10	10

Test Items	DBP	BBP	DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg
MDL	50	50	50	50

The MDL for single compound of PBBs and PBDEs is 10mg/kg, MDL of Cr⁶⁺ for polymer and composite sample is 10mg/kg and MDL of Cr⁶⁺ for metal sample is 0.1 $\mu\text{g}/\text{cm}^2$.

- (9) According to IEC 62321-7-1:2015, determine of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is less than 0.10 $\mu\text{g}/\text{cm}^2$.

Positive = Presence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is greater than 0.13 $\mu\text{g}/\text{cm}^2$.

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.

- (10) Requirement as per RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863



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Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Bis (2-ethylhexyl)- phthalate (DEHP)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzylbutyl phthalate (BBP)	0.1% (1000 mg/kg)
Diisobutyl phthalate (DIBP)	0.1% (1000 mg/kg)

(11) Abbreviation:

“Pb” denotes Lead, “Cd” denotes Cadmium, “Hg” denotes Mercury, “Cr” denotes Chromium, “Cr⁶⁺” denotes Hexavalent Chromium, “Br” denotes Bromine, “PBBs” denotes Total Polybrominated Biphenyls, “PBDEs” denotes Total Polybrominated Diphenyl Ethers. “DBP” denotes Dibutyl phthalate, “BBP” denotes Benzyl butyl phthalate (BBP), “DEHP” denotes Bis(2-ethylhexyl)-phthalate, “DIBP” denotes Diisobutyl phthalate, “PHT” denotes Phthalates.

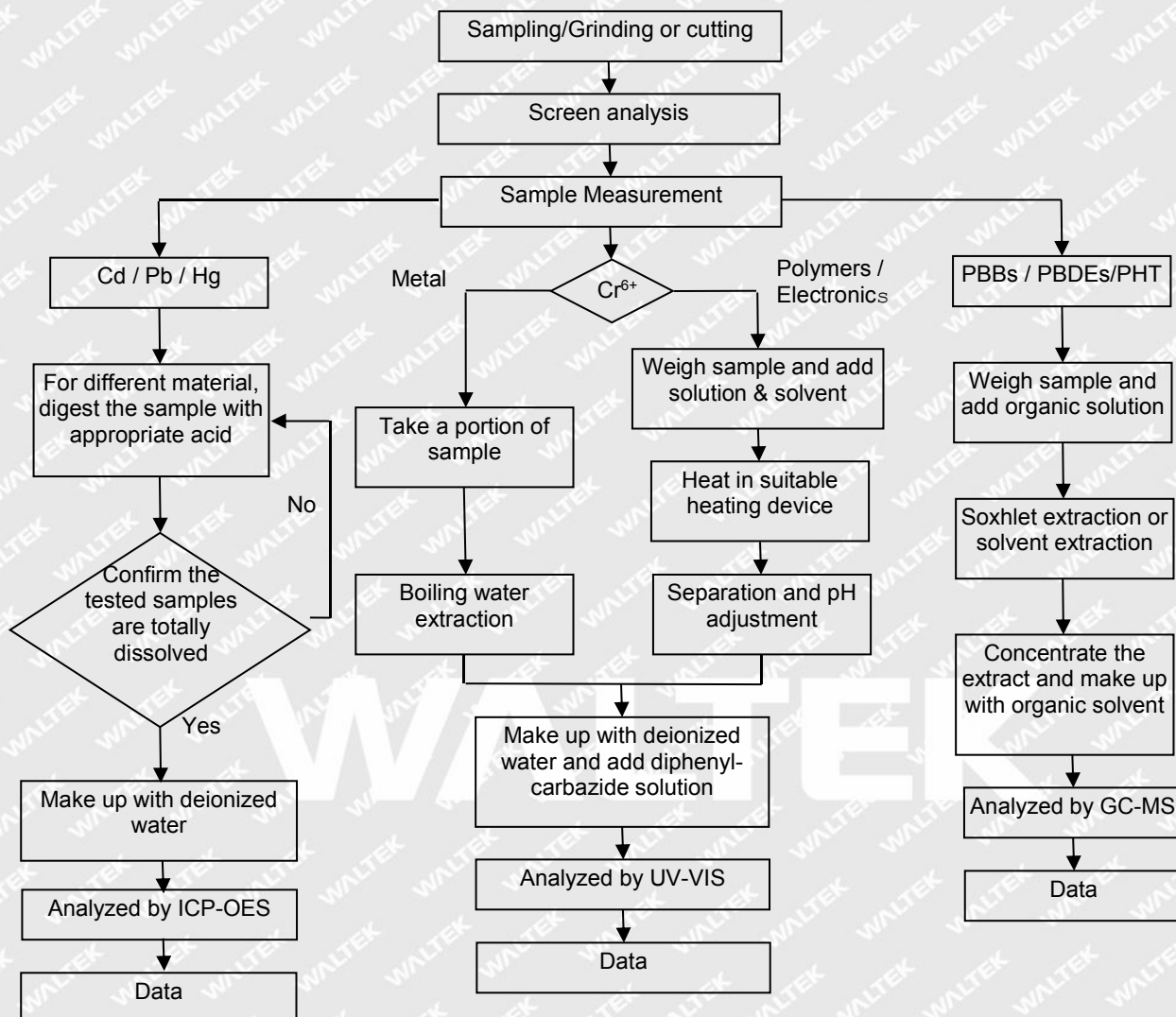
(12) “△”= As client’s requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.

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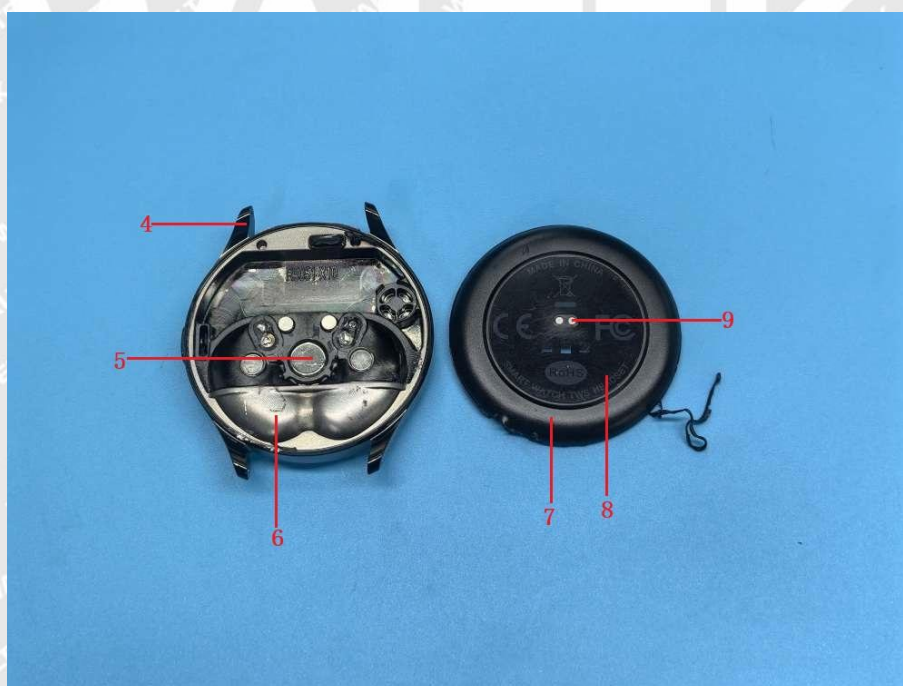
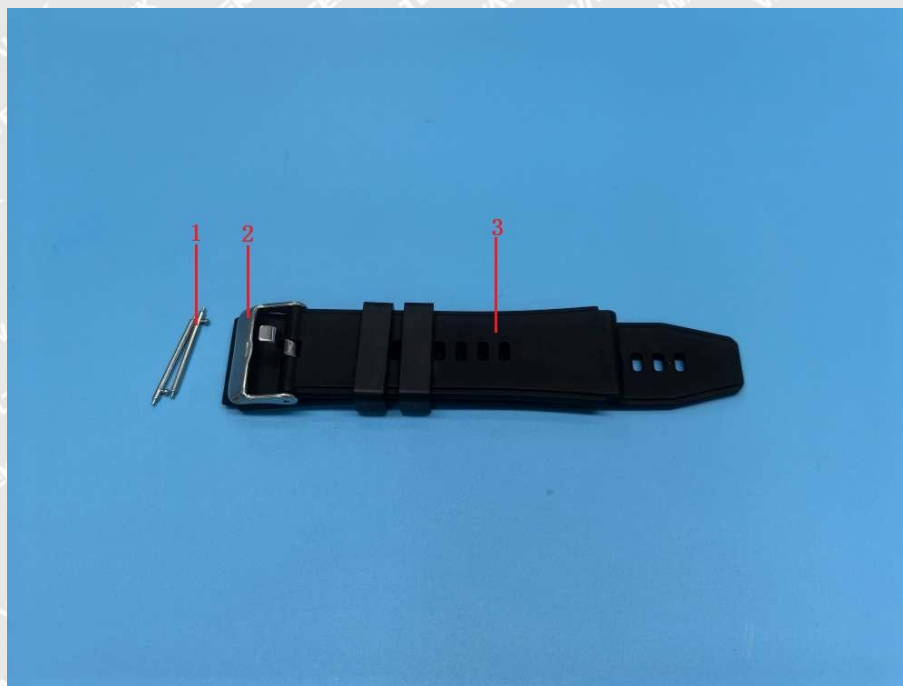
Measurement Flow chart:





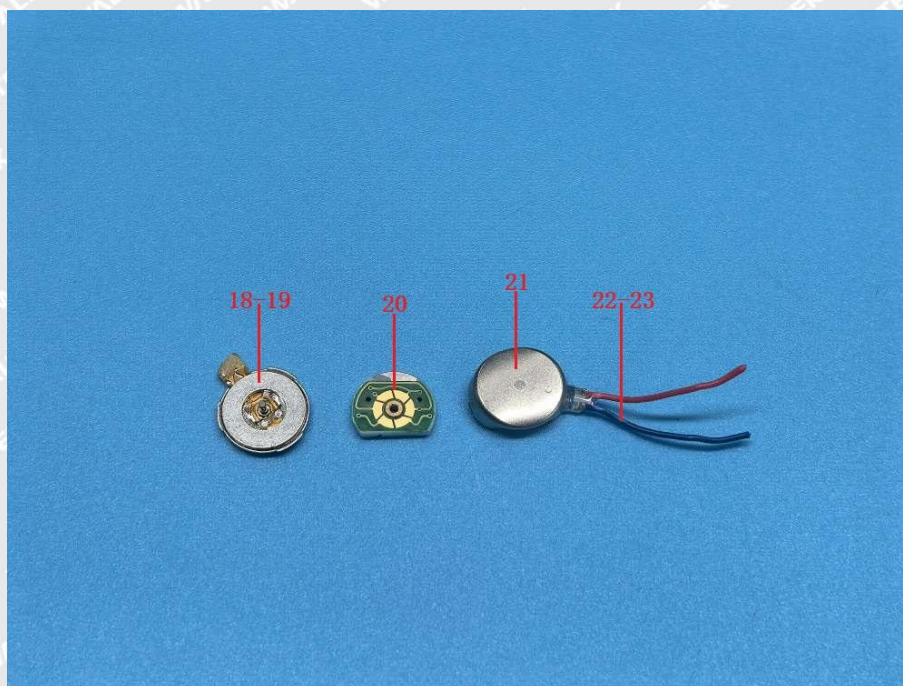
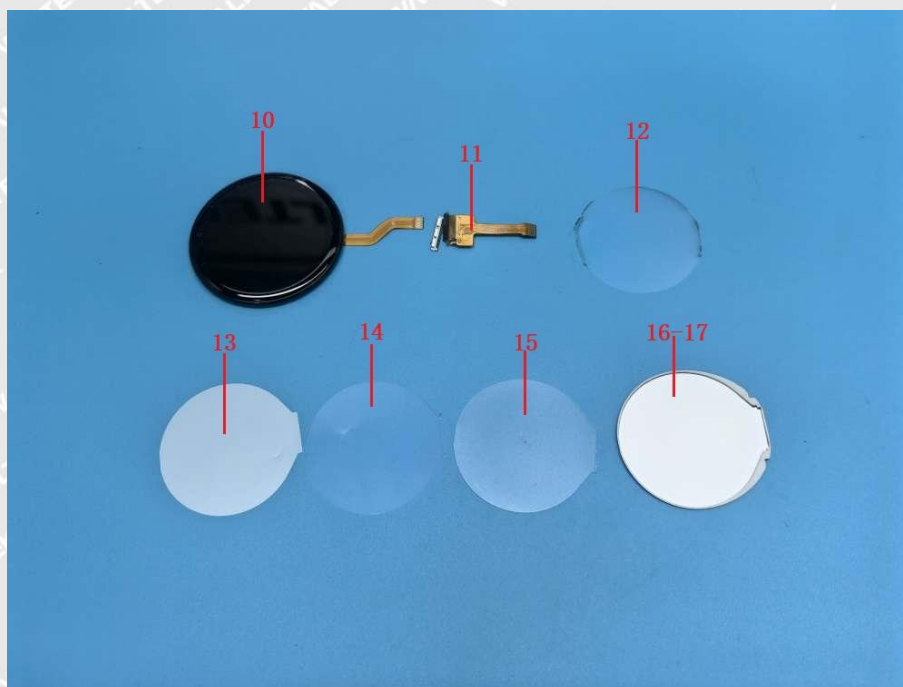
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Photograph of parts tested :



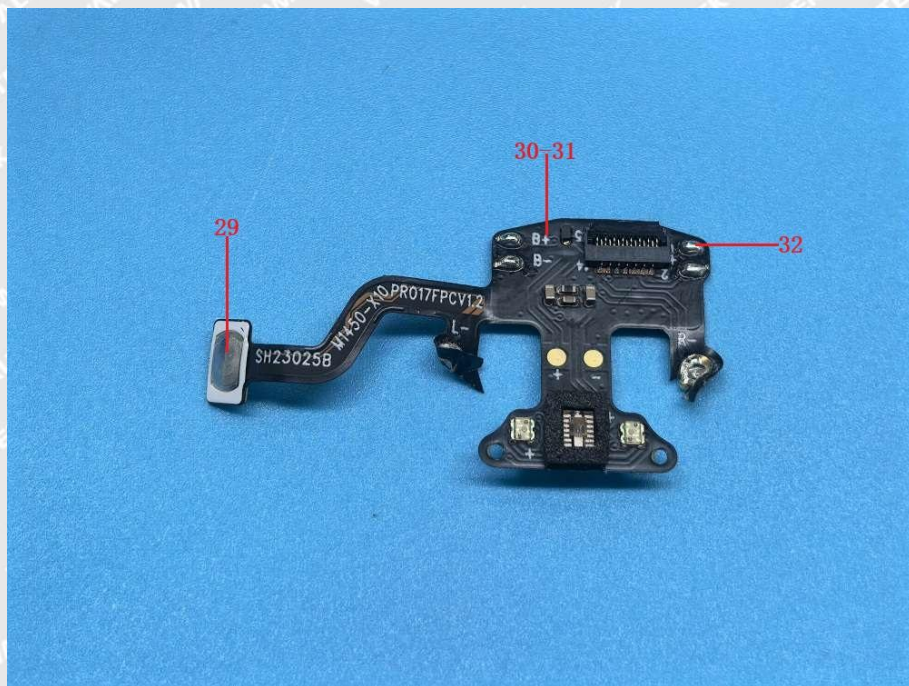
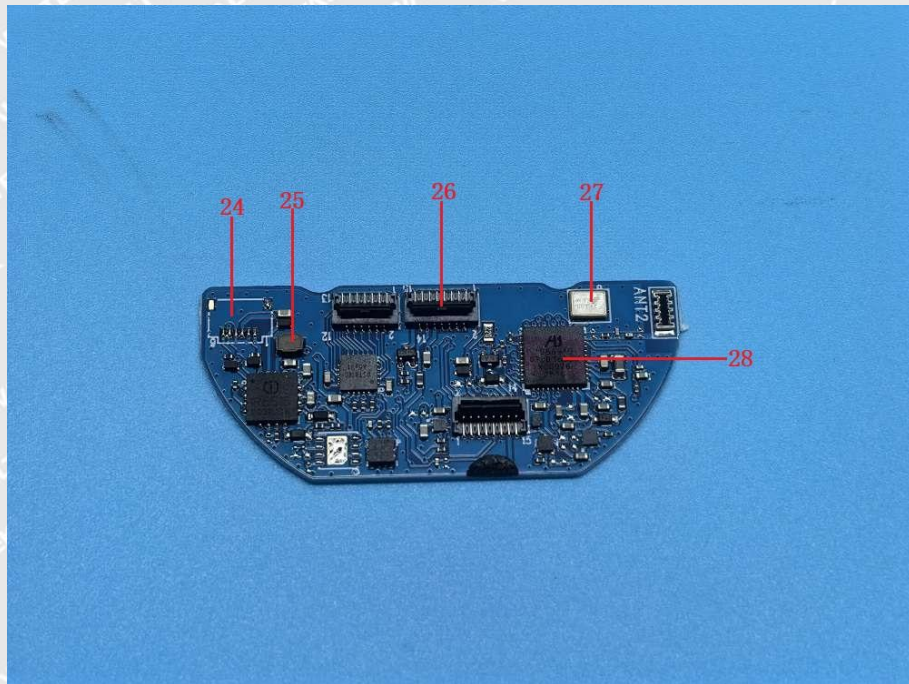


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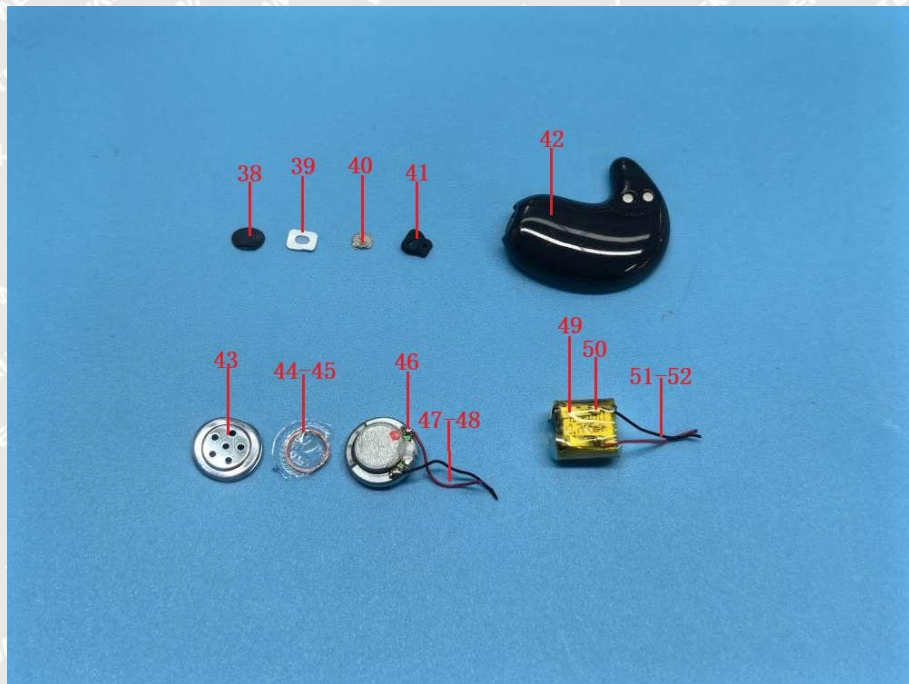
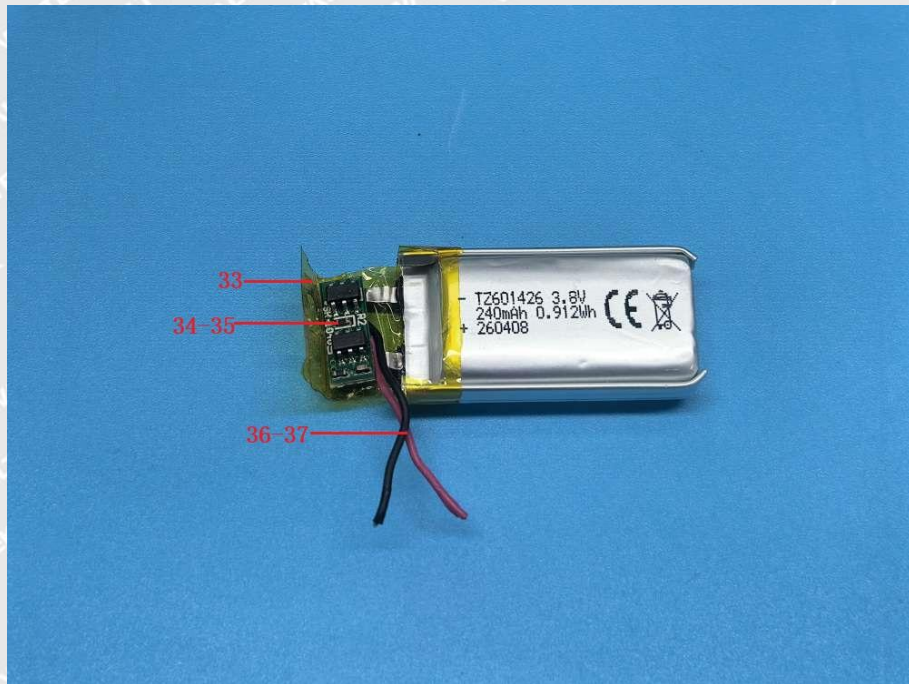


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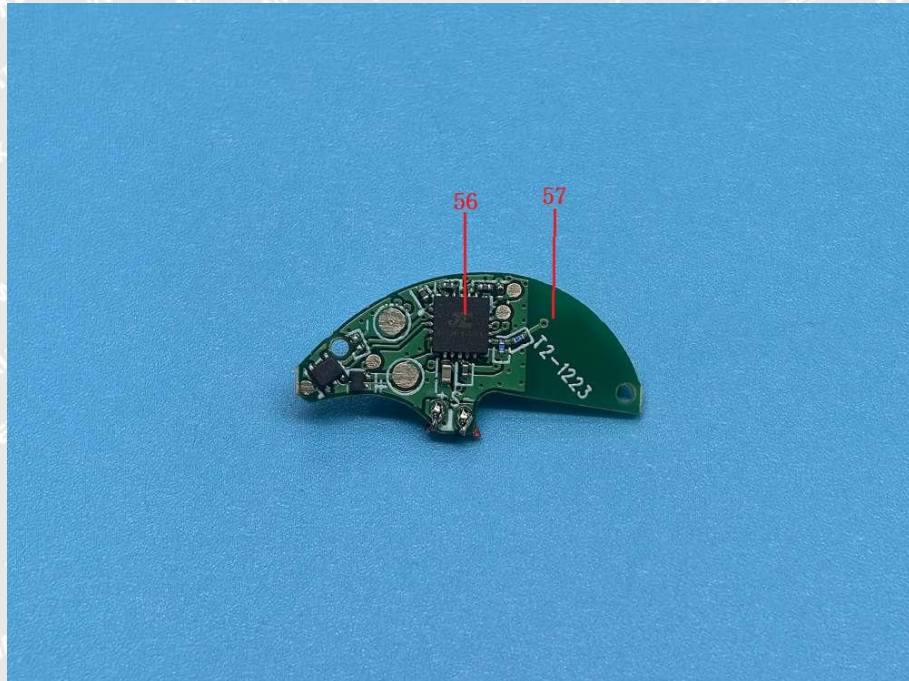
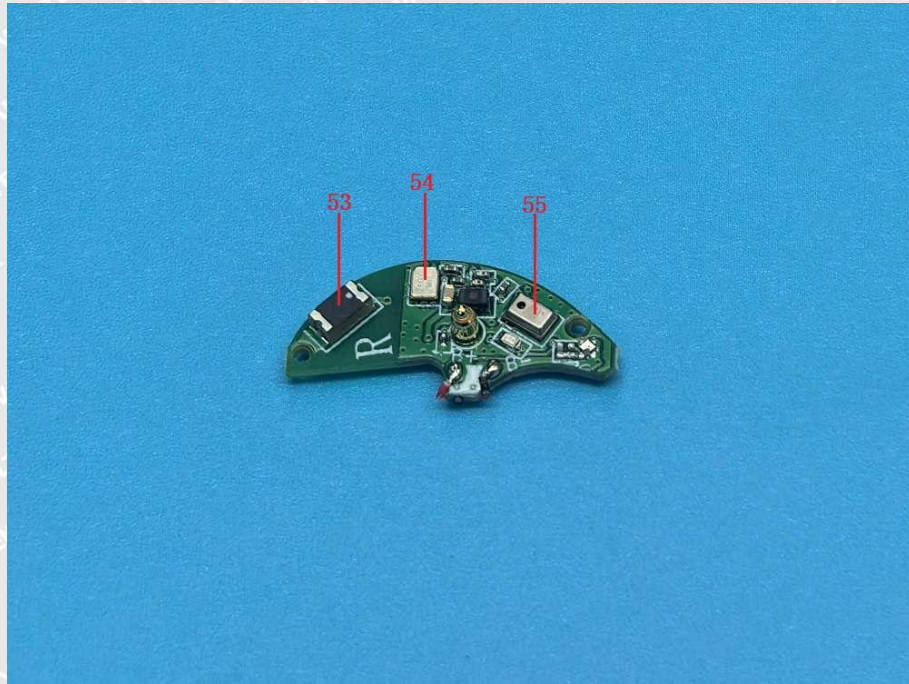


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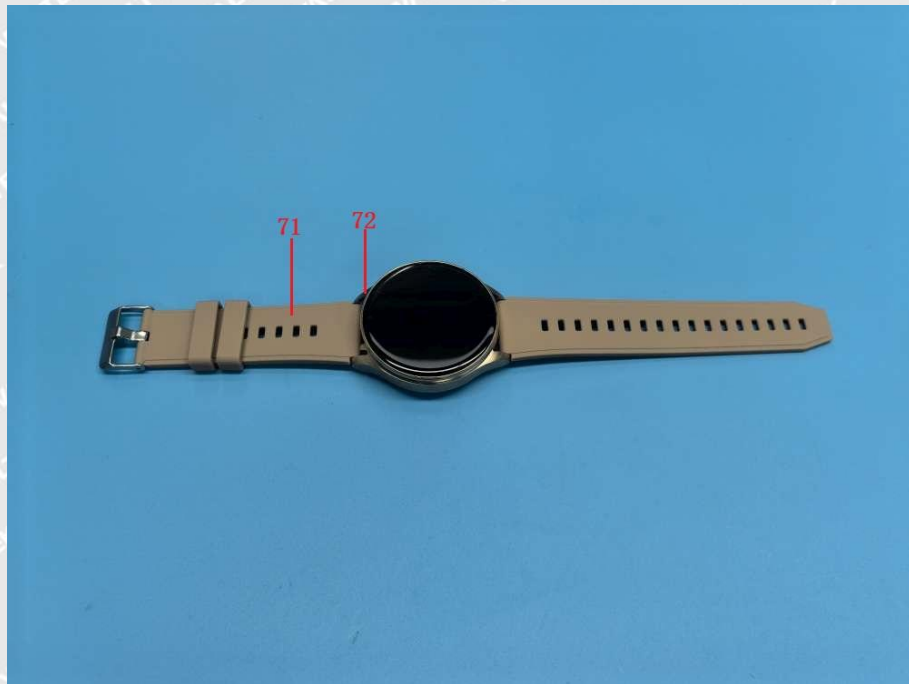


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Remarks:

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