TEST REPORT

Report No.:	BCTC2607865589R
Applicant:	Shenzhen Huafurui Technology Co., Ltd.
Product Name:	Smart watch
Test Model:	X5
Tested Date:	2026-06-29 to 2026-07-14
Issued Date:	2026-08-10

Shenzhen BCTC Testing Co., Ltd.

Product Name	Smart watch
Test Model	X5
Applicant	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China
Trademark	CUBOT
Sample Received Date	2026-06-29, 2026-07-09
Test Type	Entrustment Test
Test Method	Please refer to the following page(s).
Test Requested	1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF. 2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s). 3. As specified by client, to test the Diisobutyl phthalate(DIBP), Dibutyl phthalate(DBP), Butyl benzyl phthalate(BBP), Bis(2-ethylhexyl) phthalate(DEHP) in the submitted sample(s).
Test Conclusion	The tested sample(s) complied with the limits as set by RoHS Directive 2011/65/EU and amending Directive (EU) 2015/863.

Prepared by: Mia

Approved by: Saher Chen

Test Method:

A. XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening limits of IEC 62321-3-1:2013 Unit (mg/kg)		
	Polymers	Metals	Composite material
Pb	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(70-3σ)<X<(130+3σ)≤OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

B. Screening limits for Phthalates

Test Item(s)	Screening limits Unit (mg/kg)
Diisobutyl phthalate(DIBP)	BL≤600<X
Dibutyl phthalate(DBP)	BL≤600<X
Butyl benzyl phthalate(BBP)	BL≤600<X
Bis(2-ethylhexyl) phthalate(DEHP)	BL≤600<X

Note:

-BL = Under the screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol “X” marks the region where further investigation is necessary

-3σ= The reproducibility of analytical instruments

-LOD= Detection limit

-“--” = Not regulated.

C. Chemical Test

Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100 mg/kg

Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-VIS	0.10 μg/cm^2	1000 mg/kg
	IEC 62321-7-2:2017		8 mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg

Test Result(s):

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
1	Orange metal	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
2	Black gray metal	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	95529	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
3	Silver-gray metal	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	60275	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
4	Black plastic	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	BL	/		
		DEHP	/	BL	/		
5	Black silicone	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		
		BBP	/	/	N.D.		
		DEHP	/	/	88		
6	Silver metal needle	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	217620	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
7	Gray silicone	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		
		BBP	/	/	N.D.		
		DEHP	/	/	85		
8	Gray plastic	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	BL	/		
		DEHP	/	BL	/		
9	Transparent glass	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
10	Silver metal sheet	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	165157	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
11	Silver metal screw	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
12	Black metal screw	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	30182	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	/	/		
		DEHP	/	/	/		
13	Yellow tape	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
14	Black foam adhesive	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
15	Silver conductive cloth	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
16	Silver magnet	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	BL	/		
		DEHP	/	BL	/		
17	Black wire jacket	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		
		BBP	/	/	N.D.		
		DEHP	/	/	N.D.		
18	Gold metal contact	Pb	5466	/	25132#	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
19	White plastic	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		
		BBP	/	/	N.D.		
		DEHP	/	/	N.D.		
20	Black FPC board	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	BL	/		
		DEHP	/	BL	/		
21	IC	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
22	Black PCB board	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	11843	/	N.D.		
		DIBP	/	BL	/		
		DBP	/	BL	/		
		BBP	/	BL	/		
		DEHP	/	BL	/		
23	Tin solder	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
24	Black wire jacket	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	/	N.D.		
		DEHP	/	/	N.D.		
25	Red wire jacket	Pb	BL	/	/	PASS	2026-06-30
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	BL	/	/		
		DIBP	/	/	N.D.		
		DBP	/	/	N.D.		
		BBP	/	/	N.D.		
		DEHP	/	/	N.D.		
26	Gray silver metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	162790	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
27	Gray silver metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	188342	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
28	Gray silver metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	178650	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	/	/		
		DEHP	/	/	/		
29	Gray silver metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	162625	/	Negative		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
30	Orange metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
31	Orange metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		
		BBP	/	/	/		
		DEHP	/	/	/		
32	Orange metal	Pb	BL	/	/	PASS	2026-07-09
		Cd	BL	/	/		
		Hg	BL	/	/		
		Cr(Cr(VI))	BL	/	/		
		Br(PBBs&PBDEs)	/	/	/		
		DIBP	/	/	/		
		DBP	/	/	/		

Sample No.	Sample Description	Test Item(s)	XRF Screening Test Unit (mg/kg)	Phthalates Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
		BBP	/	/	/		
		DEHP	/	/	/		

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-" / "= Not conducted.

-The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10μg/cm^2. The coating is considered a non-Cr(VI) based coating.

-The sample is positive for Cr(VI) − The Cr(VI) concentration is above 0.13μg/cm^2. The sample coating is considered to contain Cr(VI).

-The result is considered to be inconclusive -The Cr(VI) concentration is between the 0.10μg/cm^2 and 0.13μg/cm^2. Unavoidable coating variations may influence the determination.

-#=According to the Directive (EU) 2025/2364 amending point 6(c) of Annex III to Directive 2011/65/EU, Lead is exempted as copper alloy containing up to 4%(40000mg/kg) lead by weight.

-This report is based on the original test report: BCTC2607644656R, and changes the test model, applicant name, applicant address, manufacturer name, manufacturer address ,trademark and deletes model/type reference. See the test data in the original test report BCTC2607644656R.

Remark:

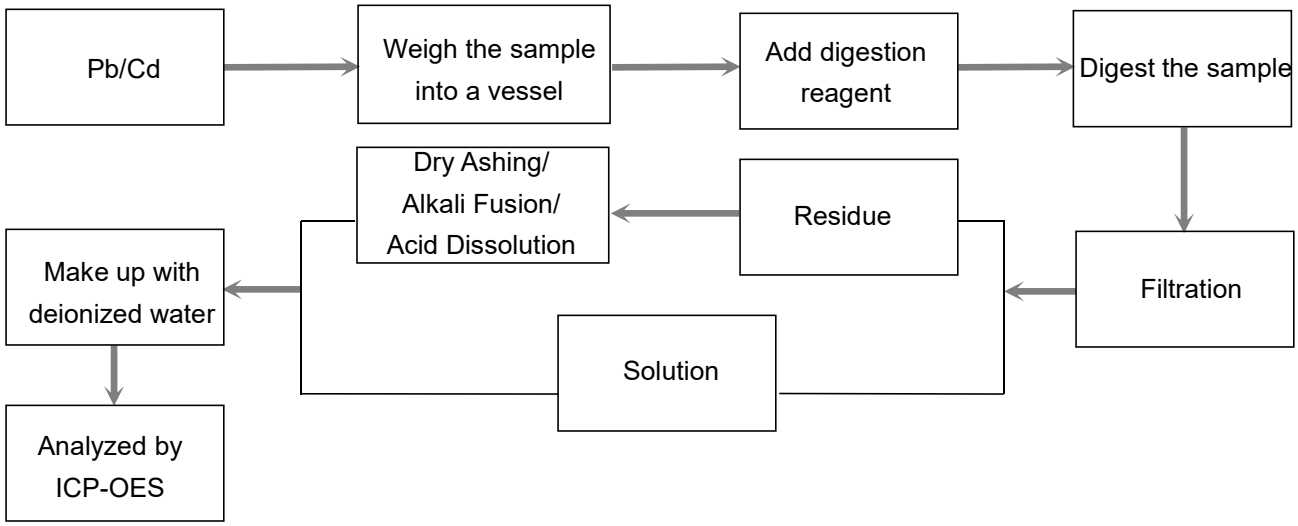
-The screening results are only used for reference.

-When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively; When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively.

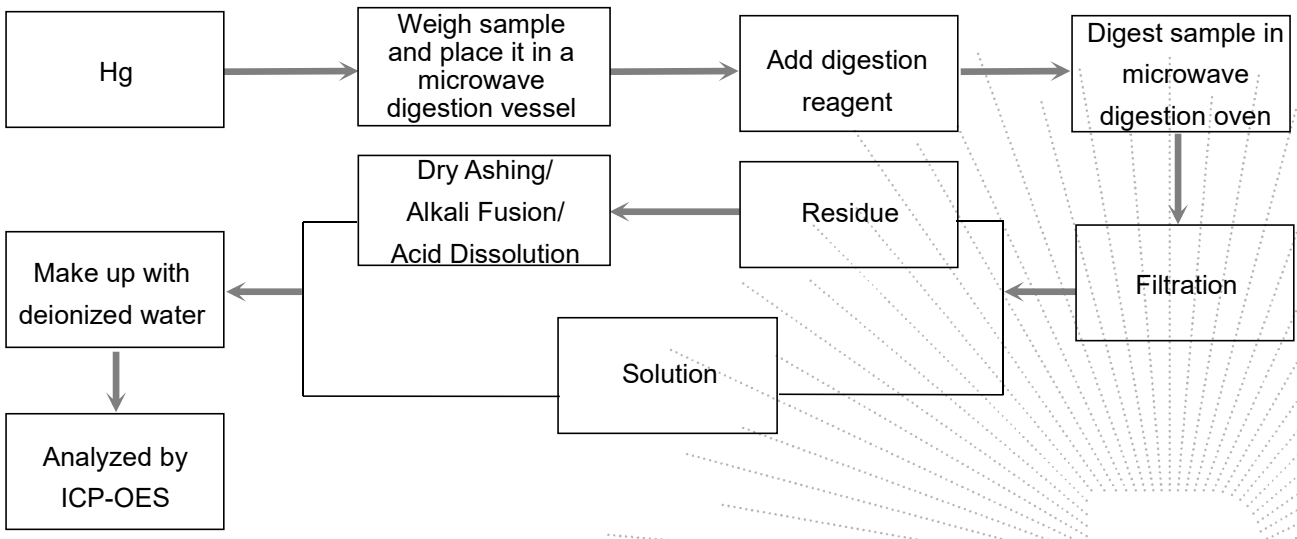
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

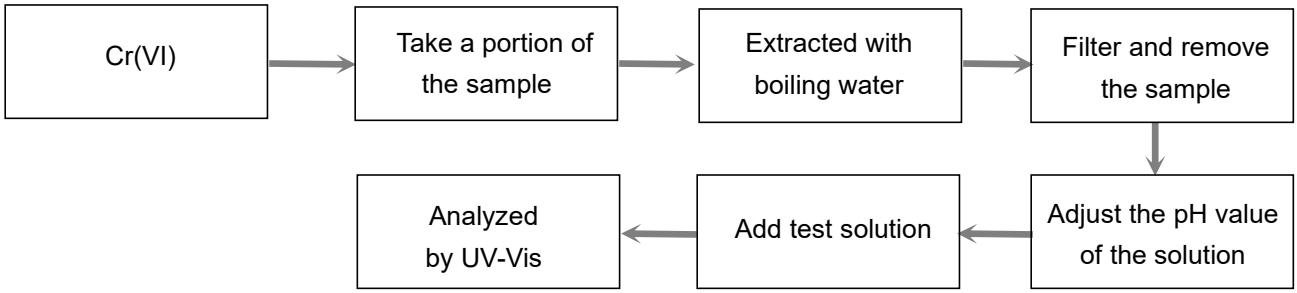
◆IEC 62321-5:2013



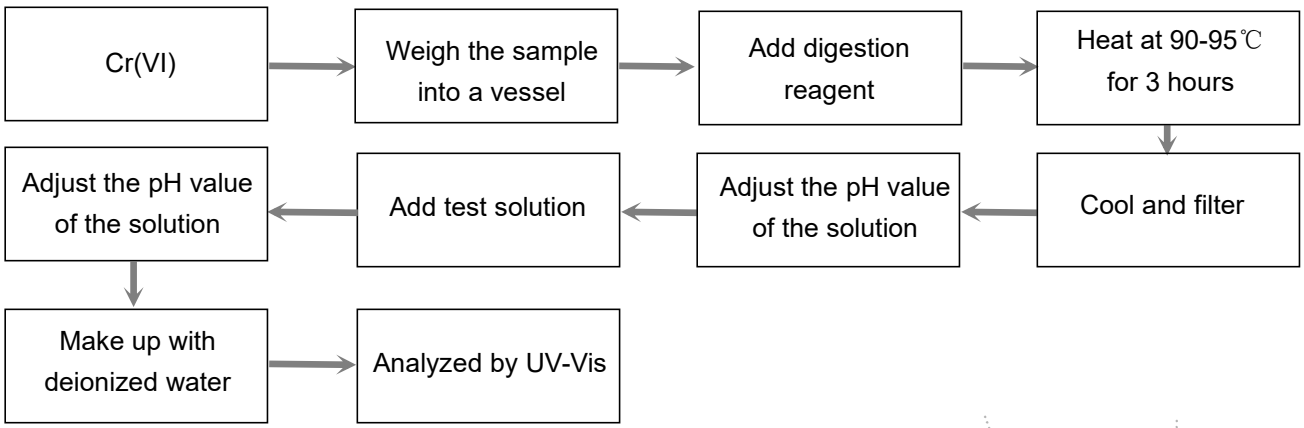
◆IEC 62321-4:2013+AMD1:2017



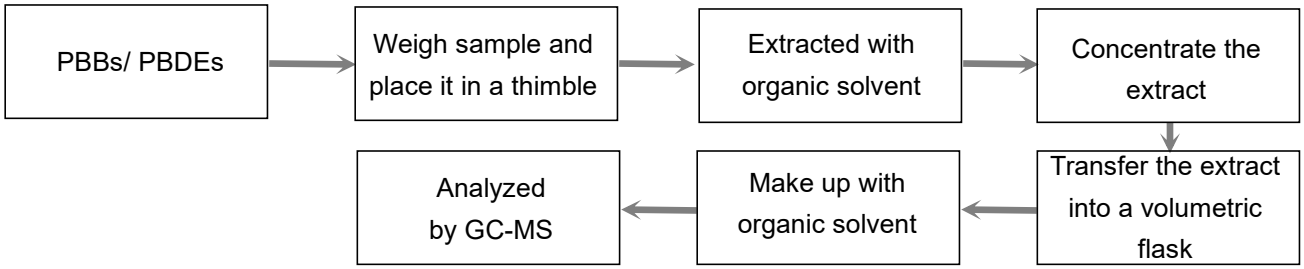
◆IEC 62321-7-1:2015



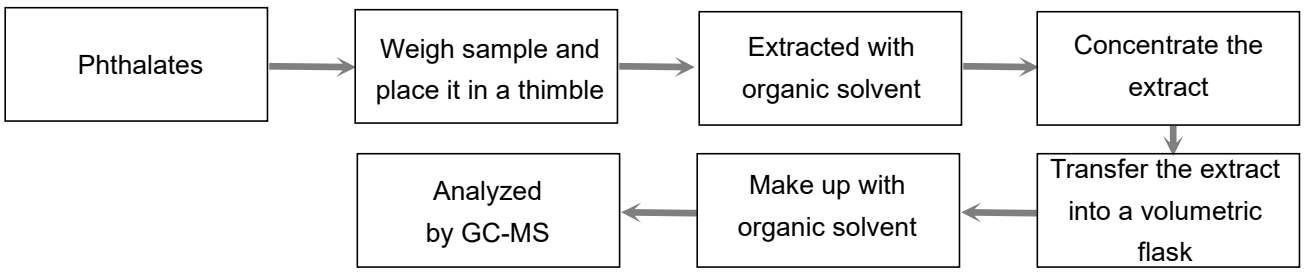
◆IEC 62321-7-2:2017



◆IEC 62321-6:2015



◆IEC 62321-8:2017



Photograph of Sample

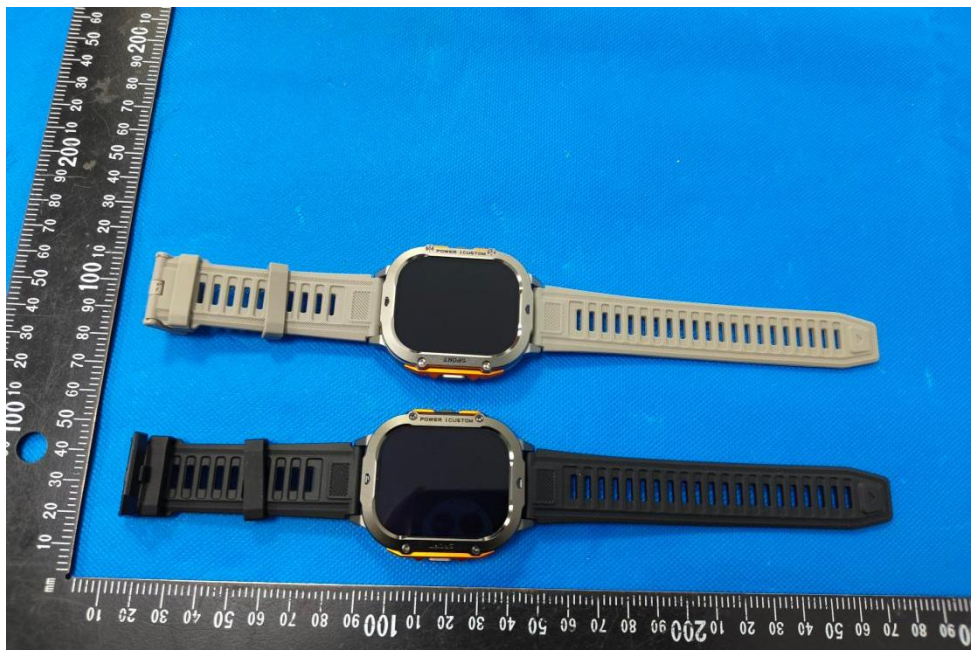


Fig.1



Fig.2



Fig.3

Photo(s) of the tested component(s)

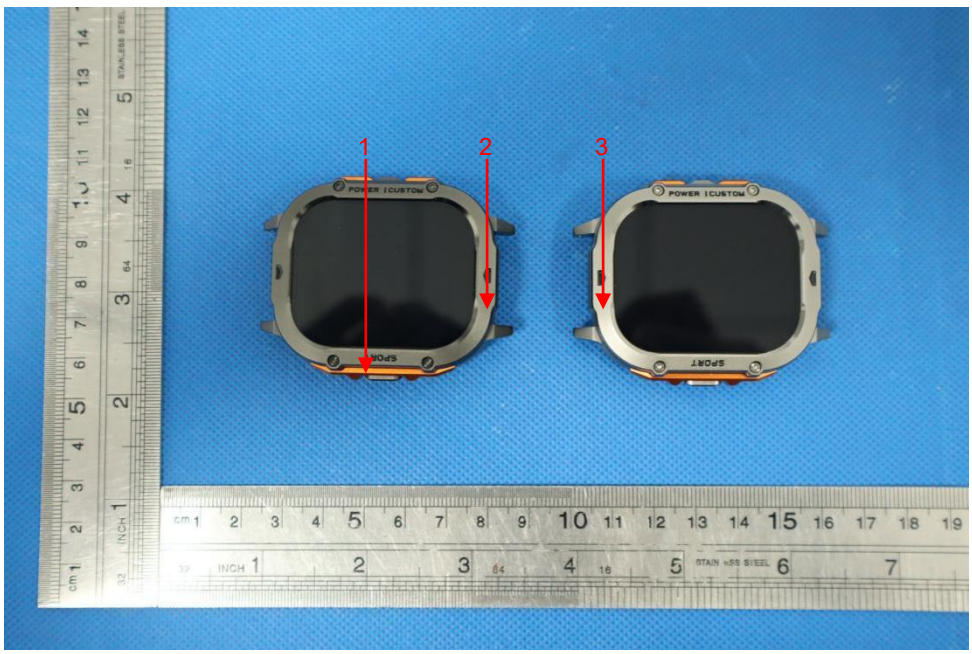


Fig.4

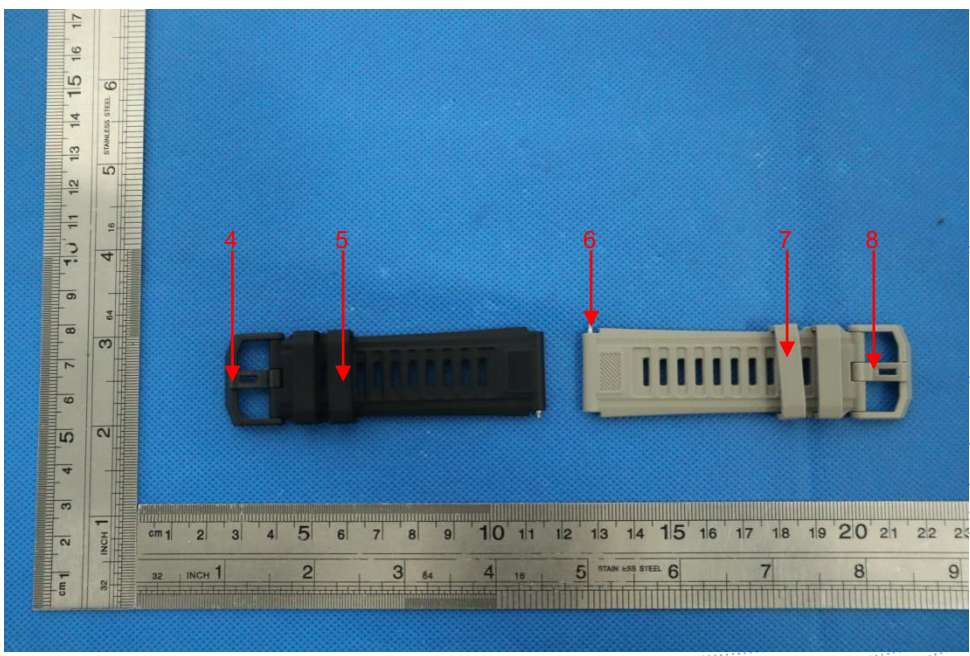


Fig.5

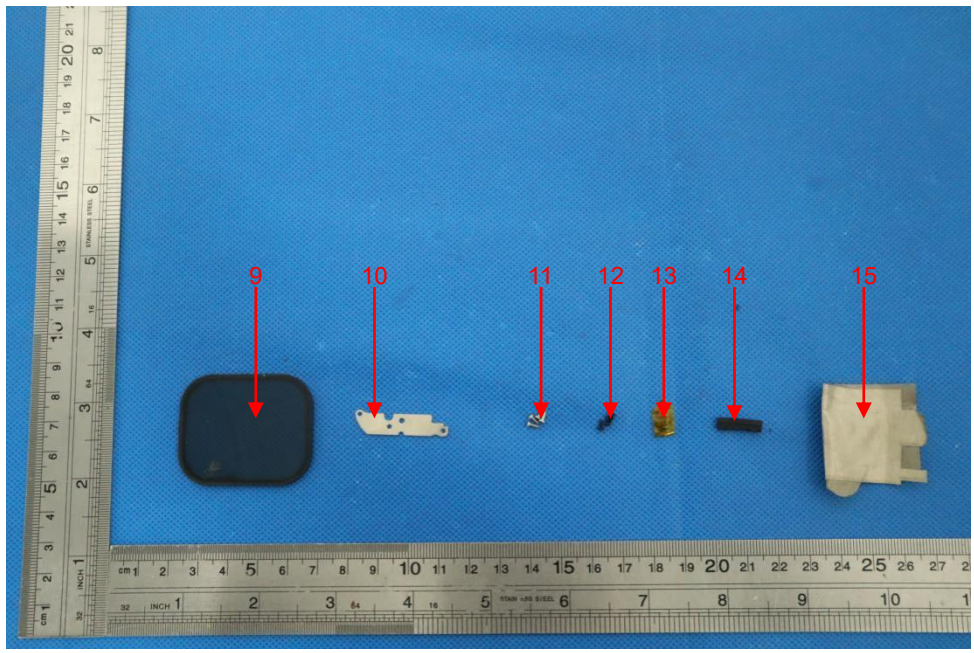


Fig.6

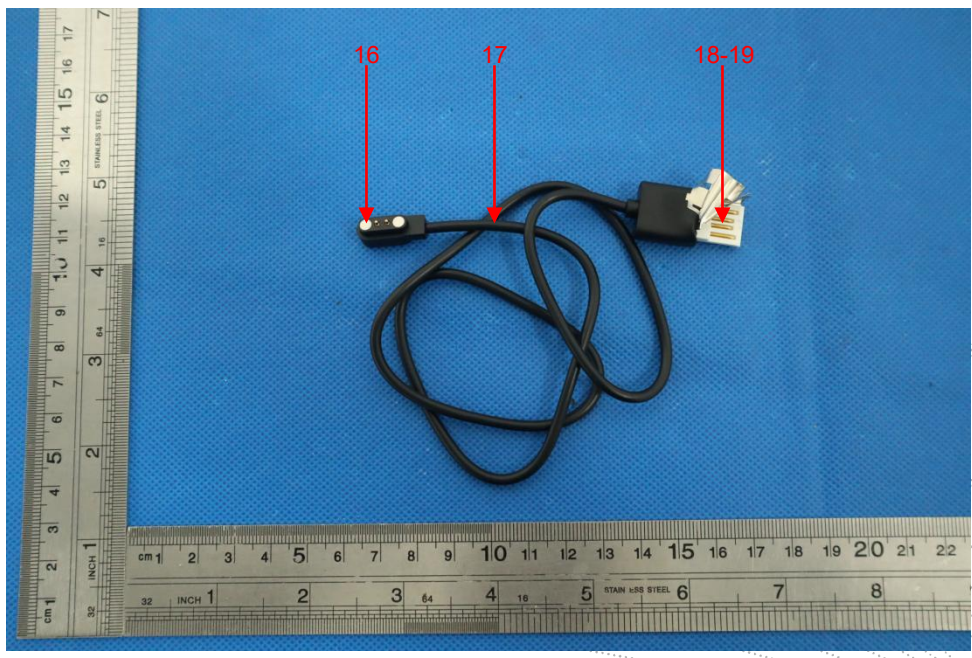


Fig.7

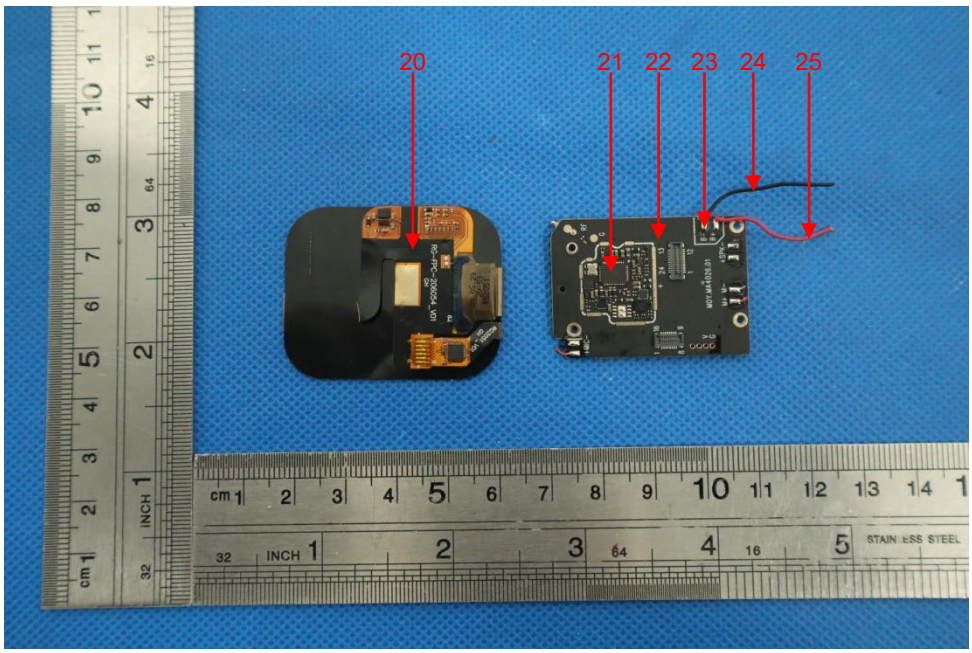


Fig.8

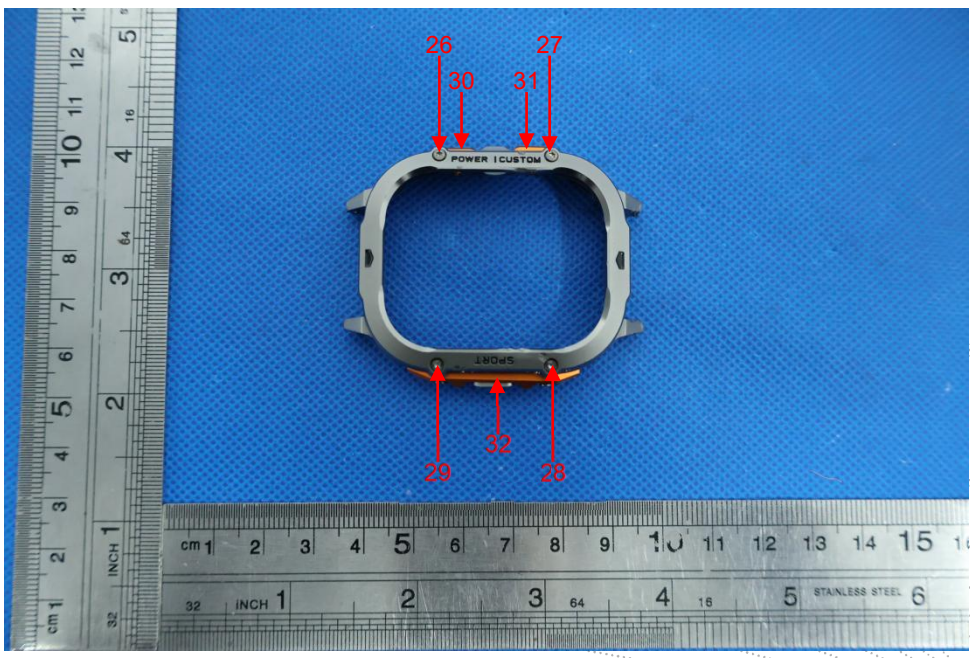


Fig.9

STATEMENT

1. The equipment lists are traceable to the International System of Units (SI).

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC 17025:2017.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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※※※※※ END ※※※※※