

TEST REPORT

Report No.: AZT032110180023C-011

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Applicant : Shenzhen Jimashi trading Co., Ltd
Address : Room 1303 Building A, Jingji Binhe Time Square, Xiasha Village, No 9298 Binghe Rd, Xiasha Community, Shatou Street, Futian District, Shenzhen.
Manufacturer's name : Shenzhen Autige Technology Co., Ltd
Address : Room 611, Building A, Huafeng Internet Creative Park, Gonghe Industrial Road, Baoan District, Shenzhen, China

Report on the submitted samples said to be:

Sample Name : Power Air 3 in 1 Wireless Charging Station
Trade Mark : wiwu
Tested model : M6
Series models : M7, M8, M9
Testing Period : October 18, 2021 ~ October 18, 2021
Date of issue : October 29, 2021
Results : Please refer to next page(s).



TEST REQUEST

CONCLUSION

According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diisobutyl Phthalate (DIBP) content comply with the limit as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Pass

Signed for and on behalf of AZT


Suez Su
Shenzhen AZT Technology Co., Ltd.
深圳安正检测技术有限公司

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Results:

A.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					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
1	White plastic	BL	BL	BL	BL	BL	BL
2	Silver magnet	BL	BL	BL	BL	/	/
3	Silver metal	BL	BL	BL	BL	/	/
4	Silver magnet	OL	BL	BL	BL	/	/
5	Grey plastic	BL	BL	BL	BL	BL	BL
6	Black foam	BL	BL	BL	BL	BL	BL
7	White plastic	BL	BL	BL	BL	BL	BL
8	Black metal screw	BL	BL	BL	BL	/	/
9	Silver metal screw	BL	BL	BL	BL	/	/
10	White braided thread	BL	BL	BL	BL	BL	BL
11	Yellow tape	BL	BL	BL	BL	BL	BL
12	Black ceramic	BL	BL	BL	BL	BL	BL
13	White double-sided adhesive tape	BL	BL	BL	BL	BL	BL
14	Silver metal	BL	BL	BL	X	/	/
15	Black plastic	BL	BL	BL	BL	BL	BL
16	Baseband	BL	BL	BL	BL	BL	BL
17	IC	BL	BL	BL	BL	BL	BL
18	IC	BL	BL	BL	BL	BL	BL
19	IC	BL	BL	BL	BL	BL	BL
20	Diode	BL	BL	BL	BL	BL	BL
21	Crystals	BL	BL	BL	BL	/	/
22	Inductance	BL	BL	BL	BL	BL	BL
23	Capacitance	BL	BL	BL	BL	BL	BL
24	The patch capacitance	BL	BL	BL	BL	BL	BL
25	SMD resistor	BL	BL	BL	BL	BL	BL
26	Light yellow paper	BL	BL	BL	BL	BL	BL
27	IC	BL	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
28	The patch capacitance	BL	BL	BL	BL	BL	BL
29	SMD resistor	BL	BL	BL	BL	BL	BL
30	PCB	BL	BL	BL	BL	BL	BL
31	Solder	BL	OL	BL	BL	/	/
32	White plastic	BL	BL	BL	BL	BL	BL
33	Silver metal	BL	BL	BL	X	/	/
34	Copper wire	BL	BL	BL	BL	/	/
35	Black plastic	BL	BL	BL	BL	BL	BL
36	Copper wire	BL	BL	BL	BL	/	/
37	Silver magnet	BL	BL	BL	BL	/	/
38	IC	BL	BL	BL	BL	BL	BL
39	Triode	BL	BL	BL	BL	BL	BL
40	Crystals	OL	BL	BL	BL	/	/
41	The patch capacitance	BL	BL	BL	BL	BL	BL
42	SMD resistor	BL	BL	BL	BL	BL	BL
43	PCB	BL	BL	BL	BL	BL	BL
44	Solder	BL	BL	BL	BL	/	/



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Note:

- (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.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼ = For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content



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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 diphenyl ethers (PBDEs)	1000
Dibutyl Phthalate (DBP)	1000
Benzyl butyl Phthalate (BBP)	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	1000
Diisobutyl Phthalate (DIBP)	1000

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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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead (Pb) & Cadmium (Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury (Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium (Cr⁶⁺) Content:

With reference to IEC 62321-7-1:2015 or 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)

BBP DBP DEHP & DIBP Content:

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

1) The test results of Lead (Pb), Cadmium (Cd) and Mercury (Hg)

Item	Unit	MDL	Results	Limit
			31	
Lead (Pb)	mg/kg	2	148	1000

Item	Unit	MDL	Results		Limit
			4	40	
Cadmium Content (Cd)	mg/kg	2	N.D.	N.D.	100



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2) The test results of Hexavalent Chromium (Cr⁶⁺) (metal)

Item	Unit	MDL	Results		Limit
			14	33	
Hexavalent Chromium(Cr(VI))▼	ug/cm ²	0.10	Negative	Negative	-

Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²
- mg/kg = ppm=parts per million
- N.D.=Not Detected (<MDL or LOQ)
- ▼ = a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr (VI)
b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10ug/cm²). The sample coating is considered a non- Cr (VI) based coating
c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination

- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezo electronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its Amendments, Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.



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

Item	Unit	MDL	Results					Limit
			1	5	6	7	10	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results					Limit
			11	12	13	15	16	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results					Limit
			17	18	19	20	22	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results					Limit
			23	24	25	26	27	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000



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Item	Unit	MDL	Results					Limit
			28	29	30	32	35	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results					Limit
			38	39	41	42	43	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL= Method detected limited
- Flow chart appendix is included
- Photo appendix is included.
- All test data in this report are derived the original report No.: AZT032108180001C-010.
- This report replaced the original report No.: AZT032110180023C-010, the original report was annulled.



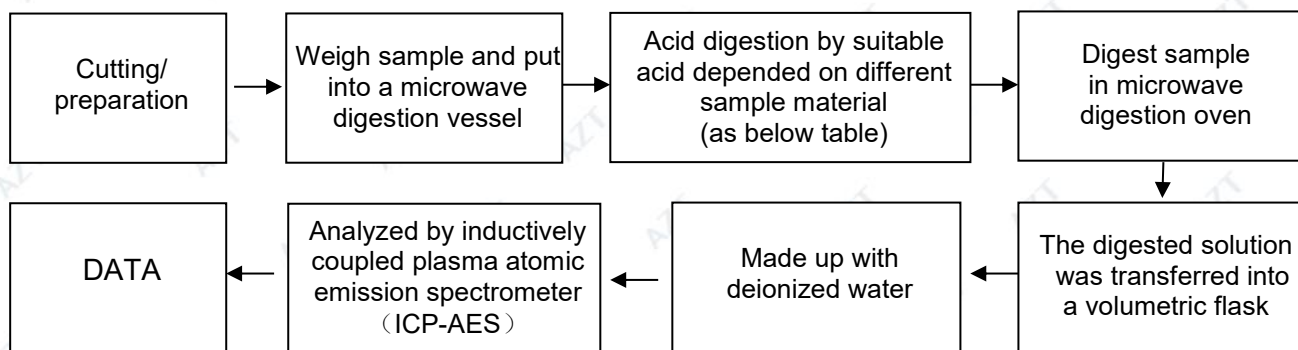
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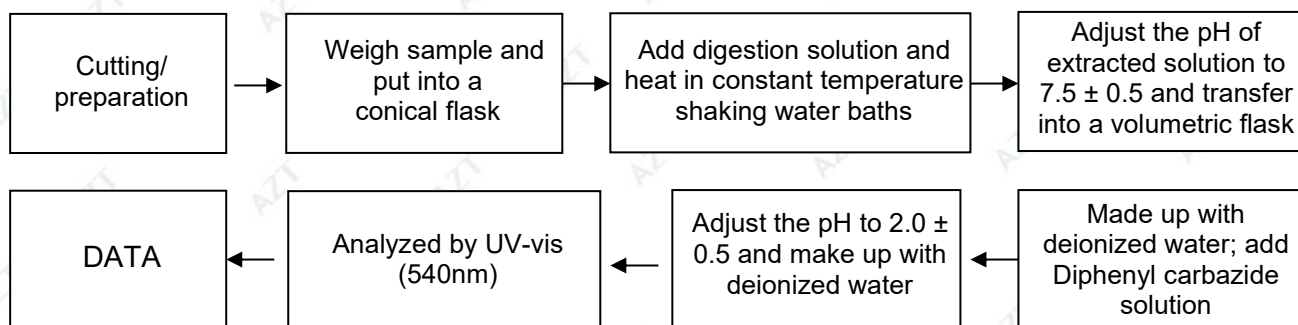
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Appendix

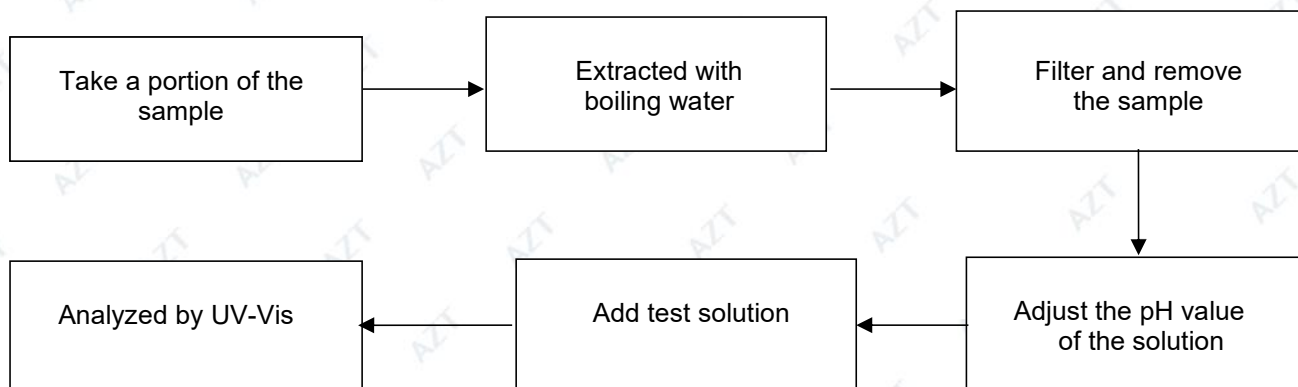
1. Test Flow chart for Cd/Pb /Hg content



2. Test Flowchart for Cr⁶⁺ content (For non-metal material)



Test Flowchart for Cr⁶⁺ content (For metal material)



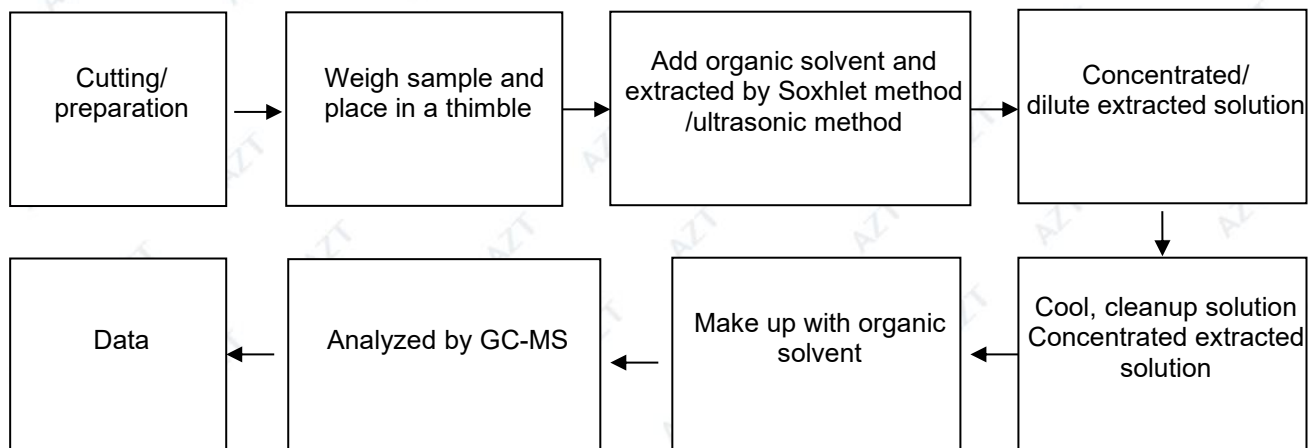


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3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



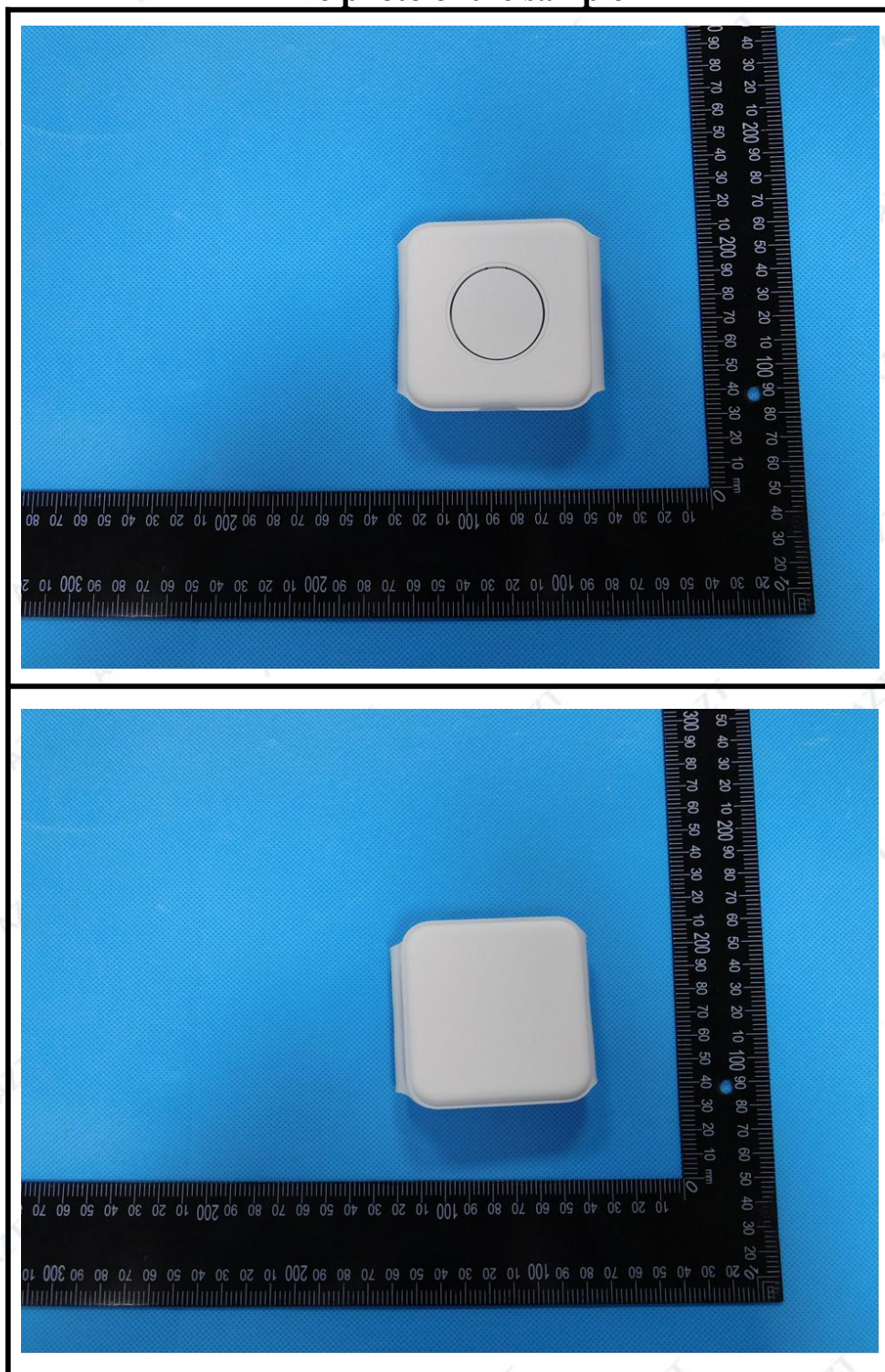


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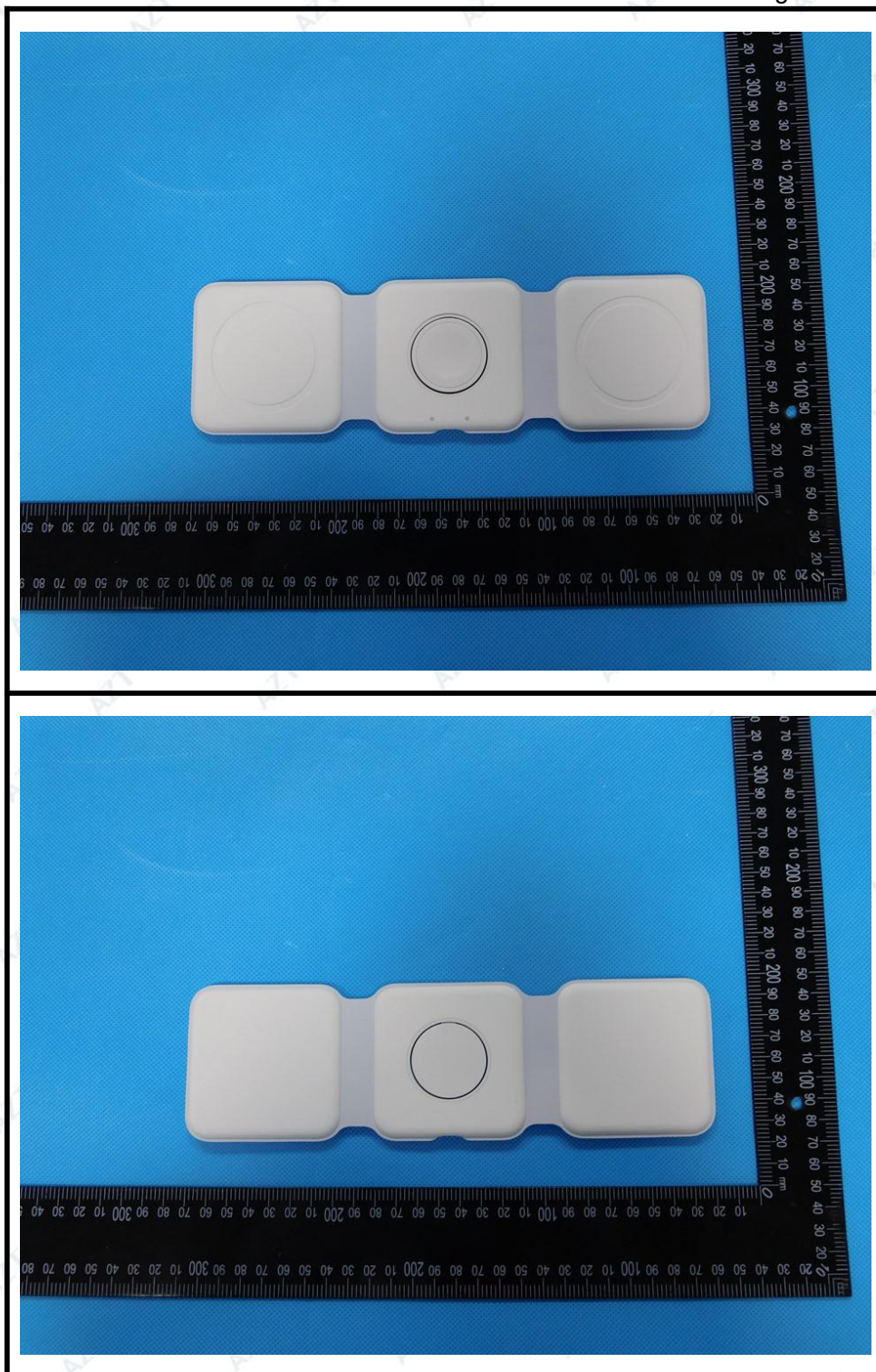
The photo of the sample



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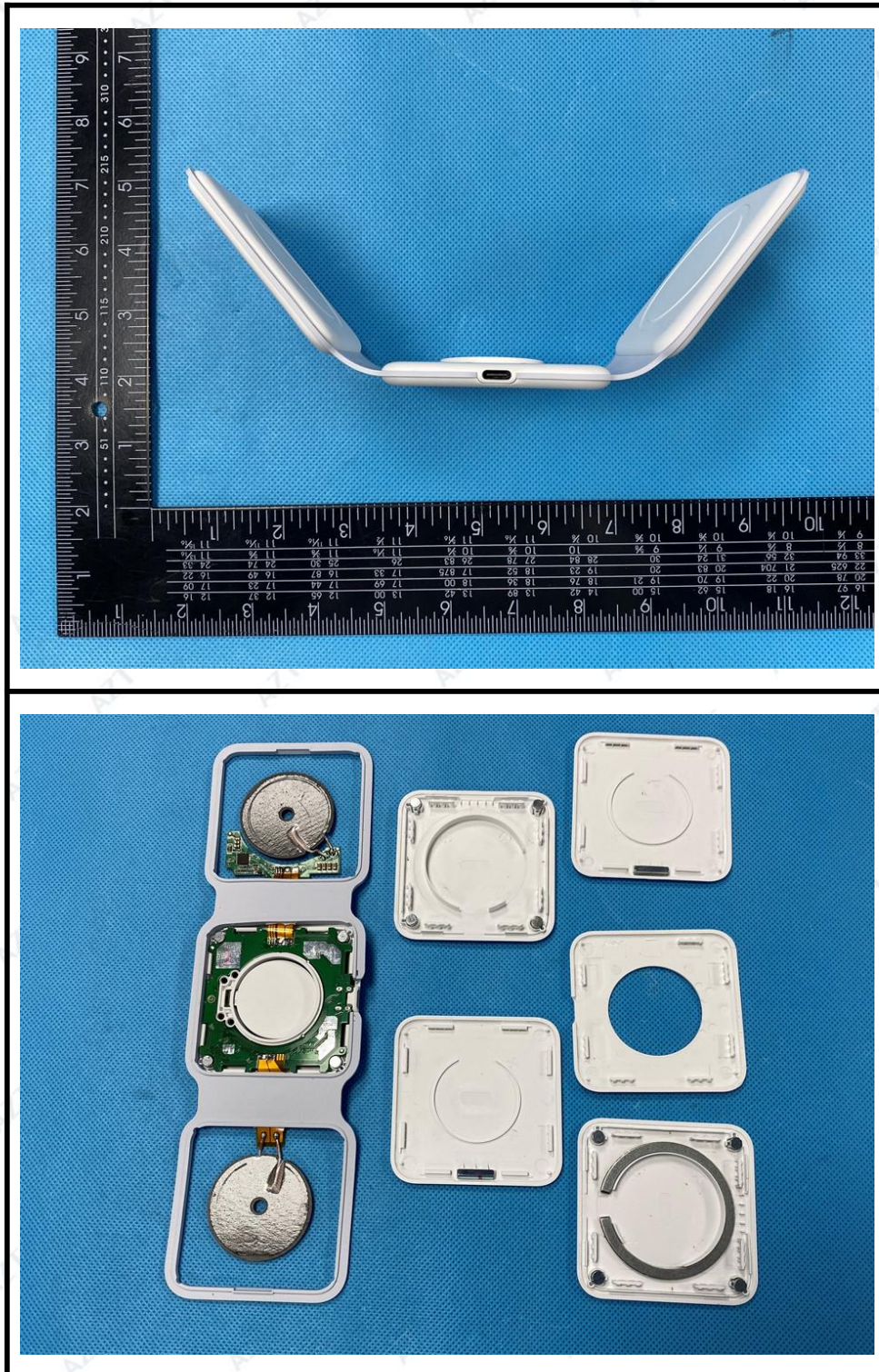
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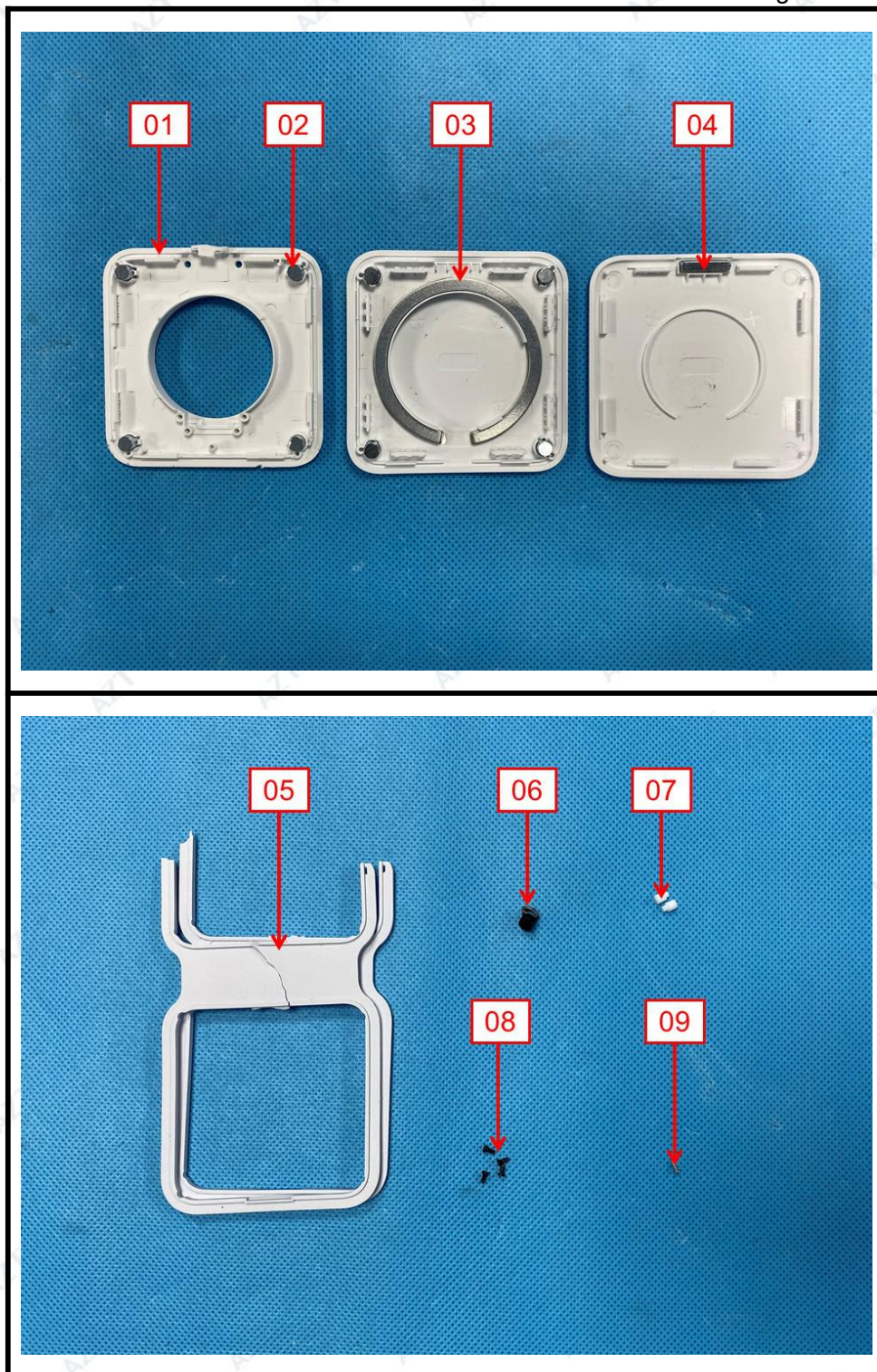
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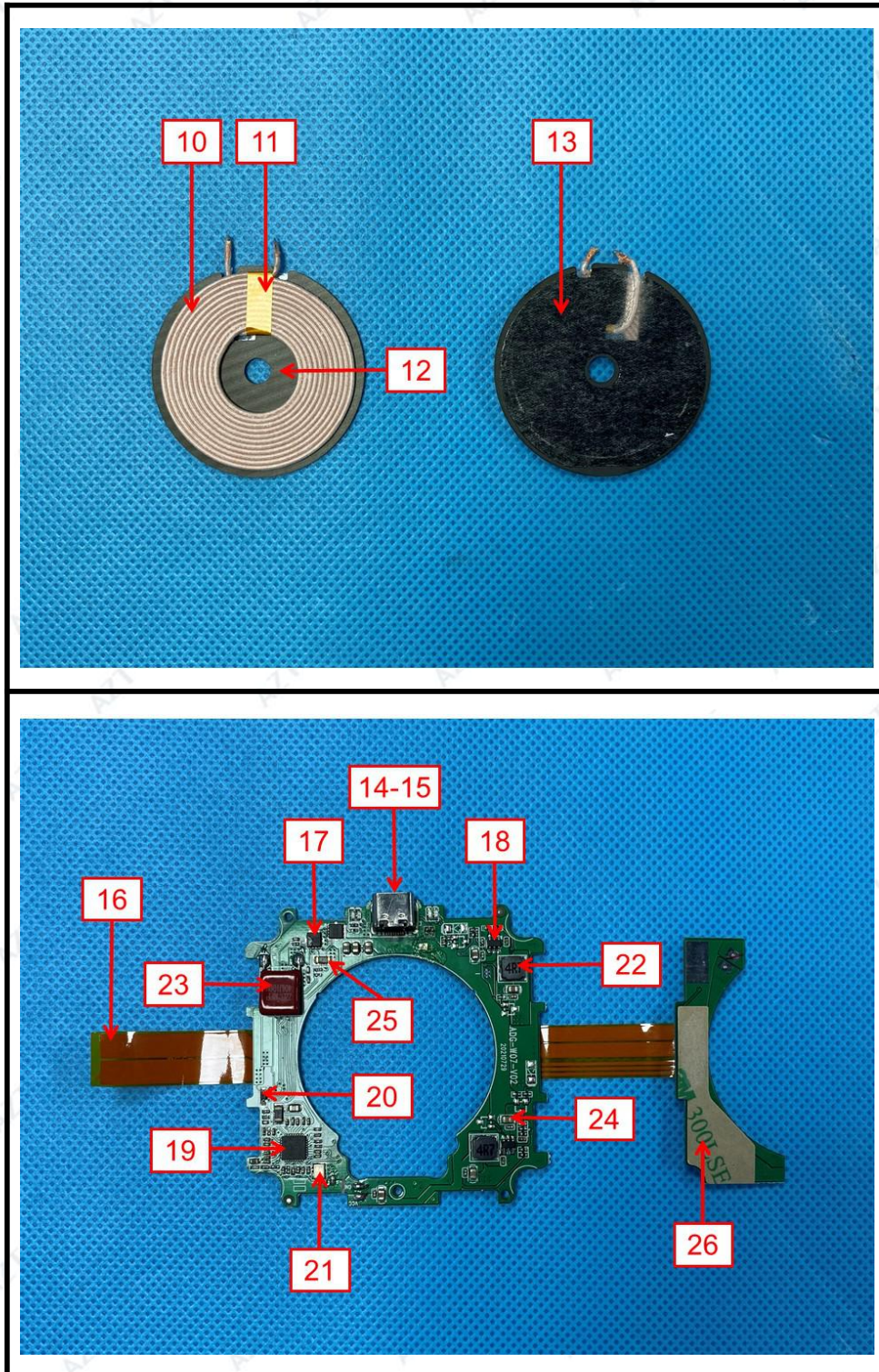
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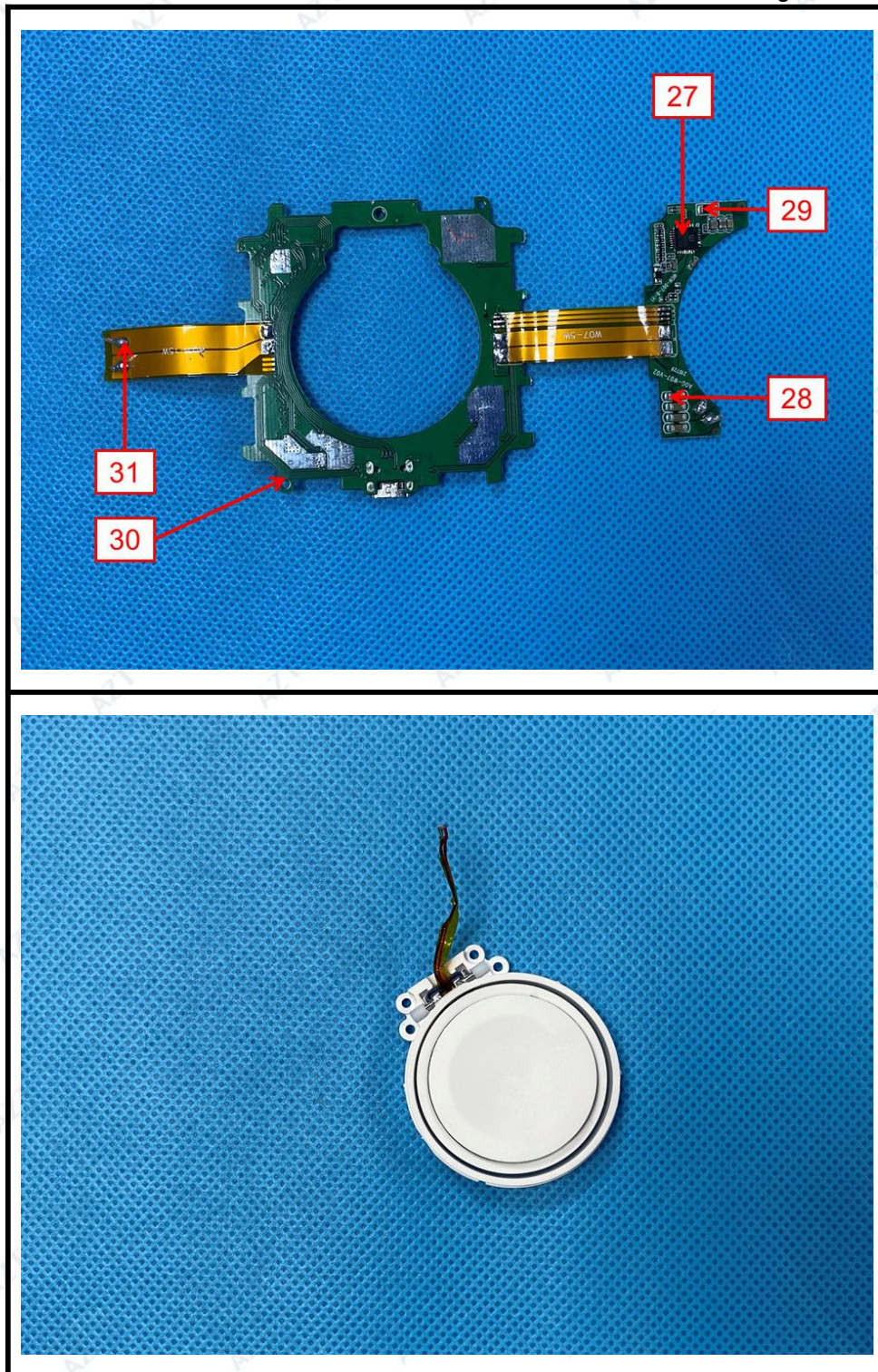
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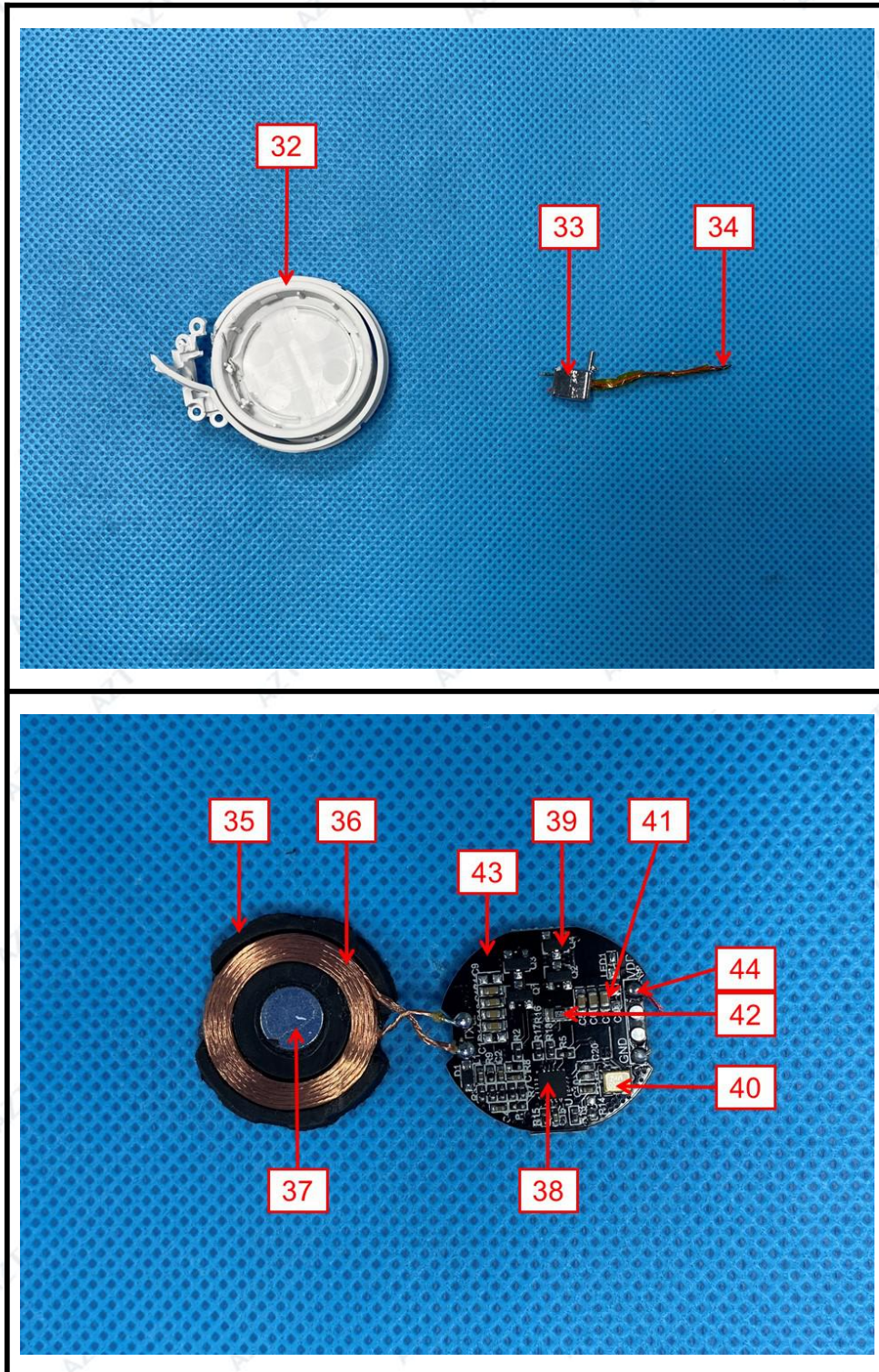
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AZT authenticate the photo on original report only

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



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Statement:

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2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of AZT, this report can't be reproduced except in full.
4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which AZT hasn't verified.
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

