

TEST REPORT

Report No.: AZT032201130005C-010

Page 1 of 37

Applicant : SHENZHEN MAONO TECHNOLOGY CO., LTD
Address : 401, Building47, SoftwareTown of Universiade, No.8288 Longgang Rd.,
He'ao Community, Yuanshan Street, Longgang District, Shenzhen, China
Manufacturer's name : Guangdong Dingchuang Smart Manufacturing Company Limited
Address : Room 401, Building 8, Fenggang Tianan Digital City, No.208, Fenggang
Section, Dongshen Road, Fenggang Town, Dongguan City, Guangdong
Province

Report on the submitted samples said to be:

Sample Name : PODCASTING CONSOLE
Trade Mark : N/A
Tested model : AME2/AME2A/AME2pro
Series models : N/A
Testing Period : January 13, 2022 ~ January 20, 2022
Date of issue : January 21, 2022
Results : Please refer to next page(s).

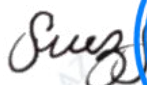

TEST REQUEST

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.

CONCLUSION

Pass

Signed for and on behalf of AZT



Suez Su

TEST REPORT

Report No.: AZT032201130005C-010

Page 2 of 37

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	Silver metal	BL	BL	BL	BL	/	/
2	Silver metal	BL	BL	BL	BL	/	/
3	Black plastic	BL	BL	BL	BL	BL	BL
4	Wet paper	BL	BL	BL	BL	BL	BL
5	Silver metal	BL	BL	BL	BL	/	/
6	Silver metal	OL	BL	BL	BL	/	/
7	Silver metal	BL	BL	BL	BL	/	/
8	Silver metal spring	BL	BL	BL	BL	/	/
9	Silver metal	BL	BL	BL	BL	/	/
10	Silver metal	BL	BL	BL	BL	/	/
11	Silver metal	BL	BL	BL	X	/	/
12	Silver metal	BL	BL	BL	X	/	/
13	Silver metal	BL	BL	BL	BL	/	/
14	Black plastic film	BL	BL	BL	BL	BL	BL
15	Black plastic	BL	BL	BL	BL	BL	BL
16	Wet paper	BL	BL	BL	BL	BL	BL
17	Silver metal	OL	BL	BL	BL	/	/
18	Silver metal	OL	BL	BL	BL	/	/
19	Silver metal	OL	X	BL	X	/	/
20	solder	BL	BL	BL	BL	/	/
21	Circuit board	BL	BL	BL	BL	X	X
22	Silver metal	BL	BL	BL	BL	/	/
23	Copper metal	BL	BL	BL	BL	/	/
24	Black coated metal	OL	BL	BL	BL	/	/
25	The white rubber	BL	BL	BL	BL	BL	BL
26	Copper metal	BL	OL	BL	BL	/	/
27	Copper metal	BL	BL	BL	BL	/	/



TEST REPORT

Report No.: AZT032201130005C-010

Page 3 of 37

Seq. No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
28	Black coated metal	X	BL	BL	BL	/	/
29	Silver metal	BL	BL	BL	BL	/	/
30	Silver metal	BL	BL	BL	BL	/	/
31	Silver metal	BL	OL	BL	X	/	/
32	Copper metal	BL	BL	BL	BL	/	/
33	Silver metal	BL	BL	BL	BL	/	/
34	Black plastic	BL	BL	BL	BL	BL	BL
35	Wet paper	BL	BL	BL	BL	BL	BL
36	Silver metal	BL	BL	BL	BL	/	/
37	Silver metal	OL	BL	BL	BL	/	/
38	Silver metal	BL	OL	BL	BL	/	/
39	Yellow tape	BL	BL	BL	BL	BL	BL
40	Black plastic	BL	BL	BL	BL	BL	BL
41	Copper wire	BL	BL	BL	BL	/	/
42	Silver metal	OL	BL	BL	BL	/	/
43	Circuit board	BL	BL	BL	BL	X	X
44	Copper metal	BL	OL	BL	BL	/	/
45	Black coated metal	BL	BL	BL	BL	/	/
46	Black rubber	BL	BL	BL	BL	BL	BL
47	Black coated metal	BL	BL	BL	BL	/	/
48	Black coated metal	BL	BL	BL	BL	/	/
49	Black coated metal	BL	BL	BL	BL	/	/
50	Copper metal	BL	BL	BL	BL	/	/
51	Silver metal	BL	OL	BL	BL	/	/
52	Solder	BL	BL	BL	BL	/	/
53	Circuit board	BL	BL	BL	BL	X	X
54	Black plastic wire	BL	BL	BL	BL	BL	BL
55	Copper wire	BL	BL	BL	BL	/	/
56	Copper metal	BL	OL	BL	BL	/	/
57	Black plastic wire	BL	BL	BL	BL	BL	BL



TEST REPORT

Report No.: AZT032201130005C-010

Page 4 of 37

Seq. No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
58	Copper wire	BL	BL	BL	BL	/	/
59	Green plastic wire	BL	BL	BL	BL	BL	BL
60	Copper wire	BL	BL	BL	BL	/	/
61	White plastic wire	BL	BL	BL	BL	BL	BL
62	Red plastic wire	BL	BL	BL	BL	BL	BL
63	Silver metal	BL	BL	BL	BL	/	/
64	Silver metal	BL	BL	BL	BL	/	/
65	Silver metal	BL	BL	BL	X	/	/
66	Black plastic	BL	BL	BL	BL	BL	BL
67	Black plastic	BL	BL	BL	BL	BL	BL
68	Black plastic wire	BL	BL	BL	BL	BL	BL
69	Red plastic wire	BL	BL	BL	BL	BL	BL
70	Copper wire	BL	BL	BL	BL	/	/
71	White plastic wire	BL	BL	BL	BL	BL	BL
72	Black plastic wire	BL	BL	BL	BL	BL	BL
73	Green plastic wire	BL	BL	BL	BL	BL	BL
74	Silver metal	BL	BL	BL	X	/	/
75	Silver metal	BL	X	BL	BL	/	/
76	Silver metal	BL	BL	BL	BL	/	/
77	Black plastic wire	BL	BL	BL	BL	BL	BL
78	White plastic wire	BL	BL	BL	BL	BL	BL
79	Copper wire	BL	BL	BL	BL	/	/
80	Red plastic wire	BL	BL	BL	BL	BL	BL



TEST REPORT

Report No.: AZT032201130005C-010

Page 5 of 37

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≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<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



TEST REPORT

Report No.: AZT032201130005C-010

Page 6 of 37

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.



TEST REPORT

Report No.: AZT032201130005C-010

Page 7 of 37

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
			19	26 ^{#3}	31	38	
Lead (Pb)	mg/kg	2	49	32015	54	83	1000

Item	Unit	MDL	Results				Limit
			44 ^{#3}	51	56 ^{#3}	75	
Lead (Pb)	mg/kg	2	34513	230	19897	62	1000

Item	Unit	MDL	Results					Limit
			5	6	17	18	19	
Cadmium Content (Cd)	mg/kg	2	N.D.	7	N.D.	N.D.	15	100

Item	Unit	MDL	Results				Limit
			24	28	37	42	
Cadmium Content (Cd)	mg/kg	2	22	19	N.D.	16	100



TEST REPORT

Report No.: AZT032201130005C-010

Page 8 of 37

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

Item	Unit	MDL	Results				Limit
			11	12	19	31	
Hexavalent Chromium(Cr(VI))▼	ug/cm ²	0.10	Negative	Negative	Negative	Negative	--

Item	Unit	MDL	Results		Limit
			65	74	
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.



TEST REPORT

Report No.: AZT032201130005C-010

Page 9 of 37

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

Item	CAS No.	Unit	MDL	Results			Limit
				3+4+14	15+16 +21	25+46 +54	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	N.D.	N.D.	979	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	N.D.	N.D.	675	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30	N.D.	N.D.	N.D.	1000

Item	CAS No.	Unit	MDL	Results			Limit
				39+40 +43	34+35 +53	57+66 +67	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	N.D.	N.D.	111	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	N.D.	N.D.	415	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30	N.D.	N.D.	N.D.	1000

Item	CAS No.	Unit	MDL	Results			Limit
				59+61 +62	68+69 71	72+73 +77	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	N.D.	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30	N.D.	N.D.	N.D.	1000

Item	CAS No.	Unit	MDL	Results			Limit
				78+80			
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	N.D.			1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	30	N.D.			1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	N.D.			1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30	N.D.			1000



TEST REPORT

Report No.: AZT032201130005C-010

Page 10 of 37

5) The test results of PBBs & PBDEs

Item	Unit	MDL	Results			Limit
			21	43	53	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)(Mon-Deca)						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	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.



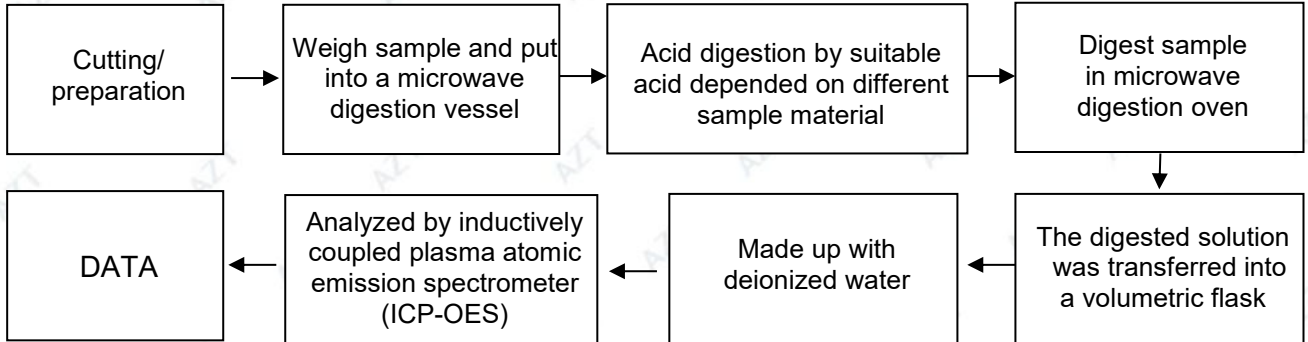
TEST REPORT

Report No.: AZT032201130005C-010

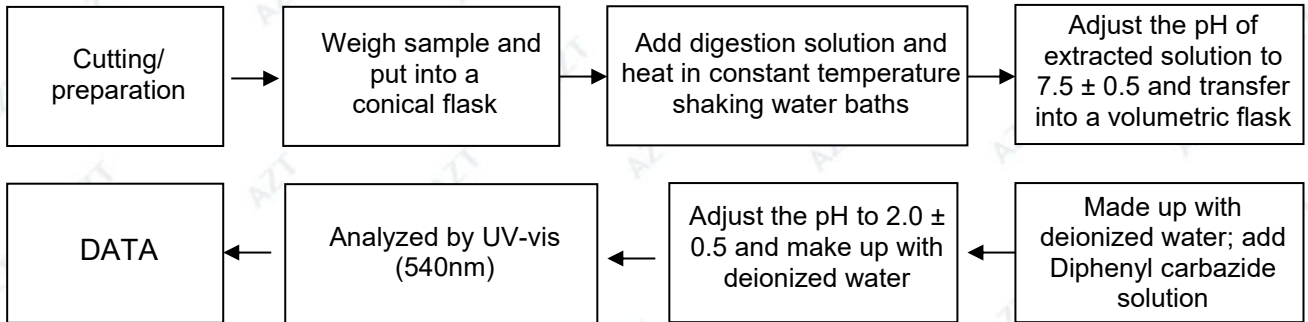
Page 11 of 37

Appendix

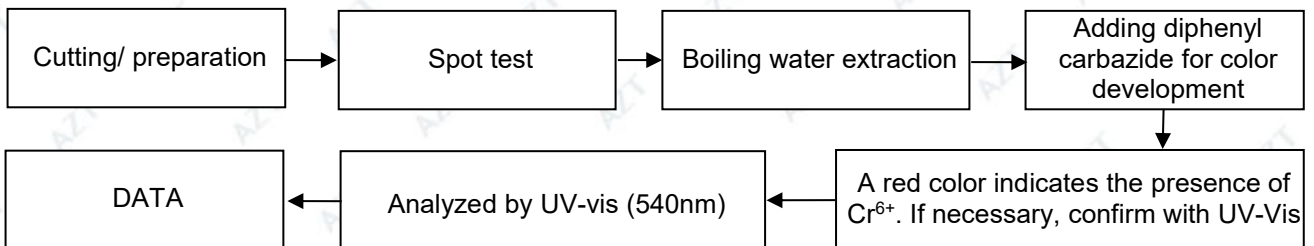
1. Test Flow chart for Cd/Pb /Hg content



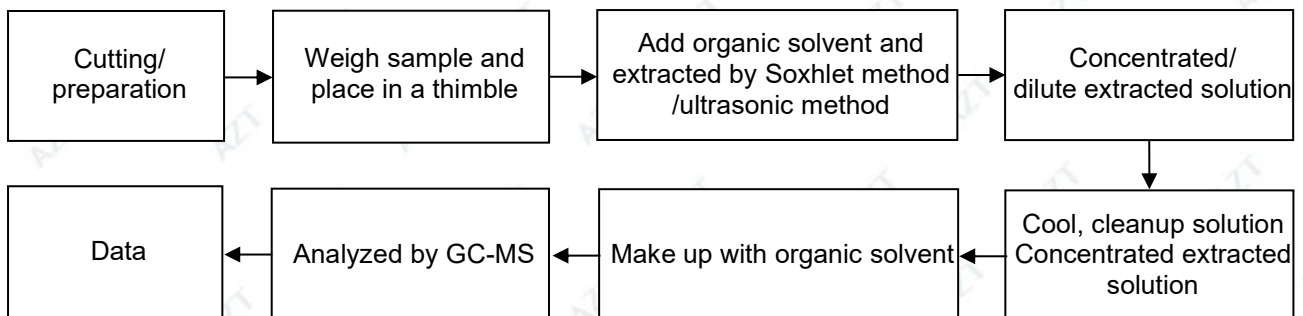
2. Test Flowchart for Cr⁶⁺ content (For non-metal material)



Test Flowchart for Cr⁶⁺ content (For metal material)



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





TEST REPORT

Report No.: AZT032201130005C-010

Page 12 of 37

The photo of the sample



TEST REPORT

Report No.: AZT032201130005C-010

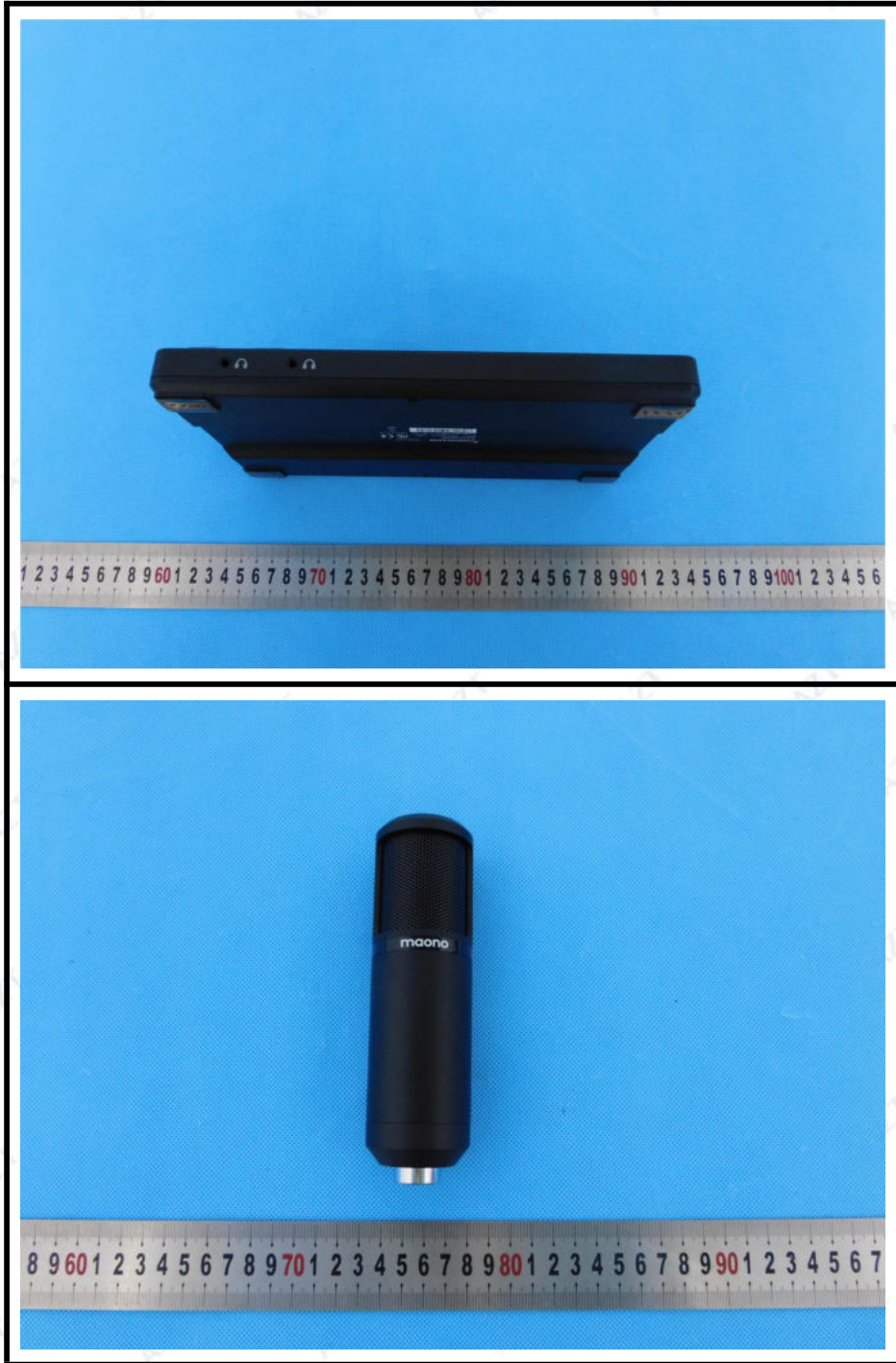
Page 13 of 37



TEST REPORT

Report No.: AZT032201130005C-010

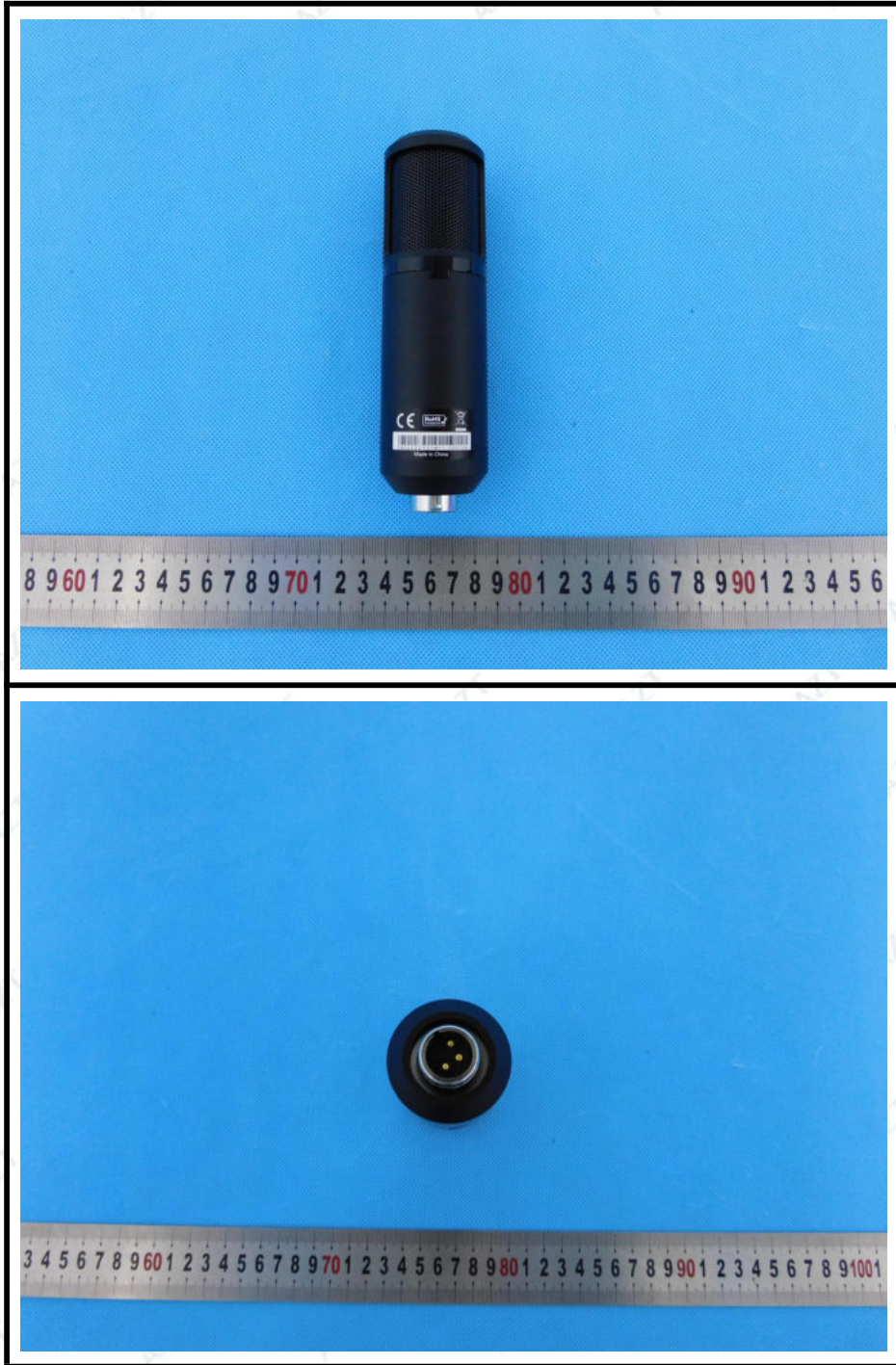
Page 14 of 37



TEST REPORT

Report No.: AZT032201130005C-010

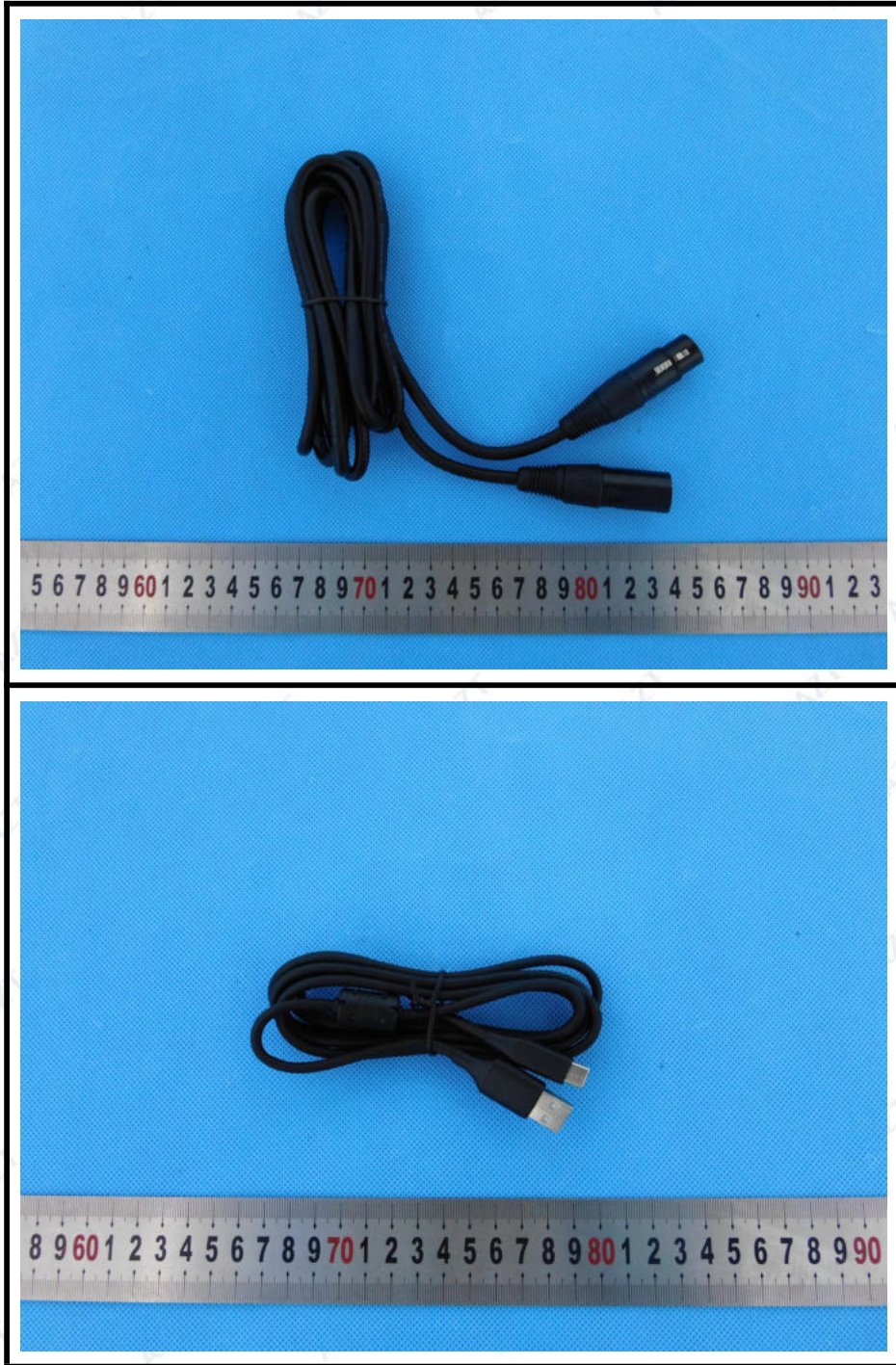
Page 15 of 37



TEST REPORT

Report No.: AZT032201130005C-010

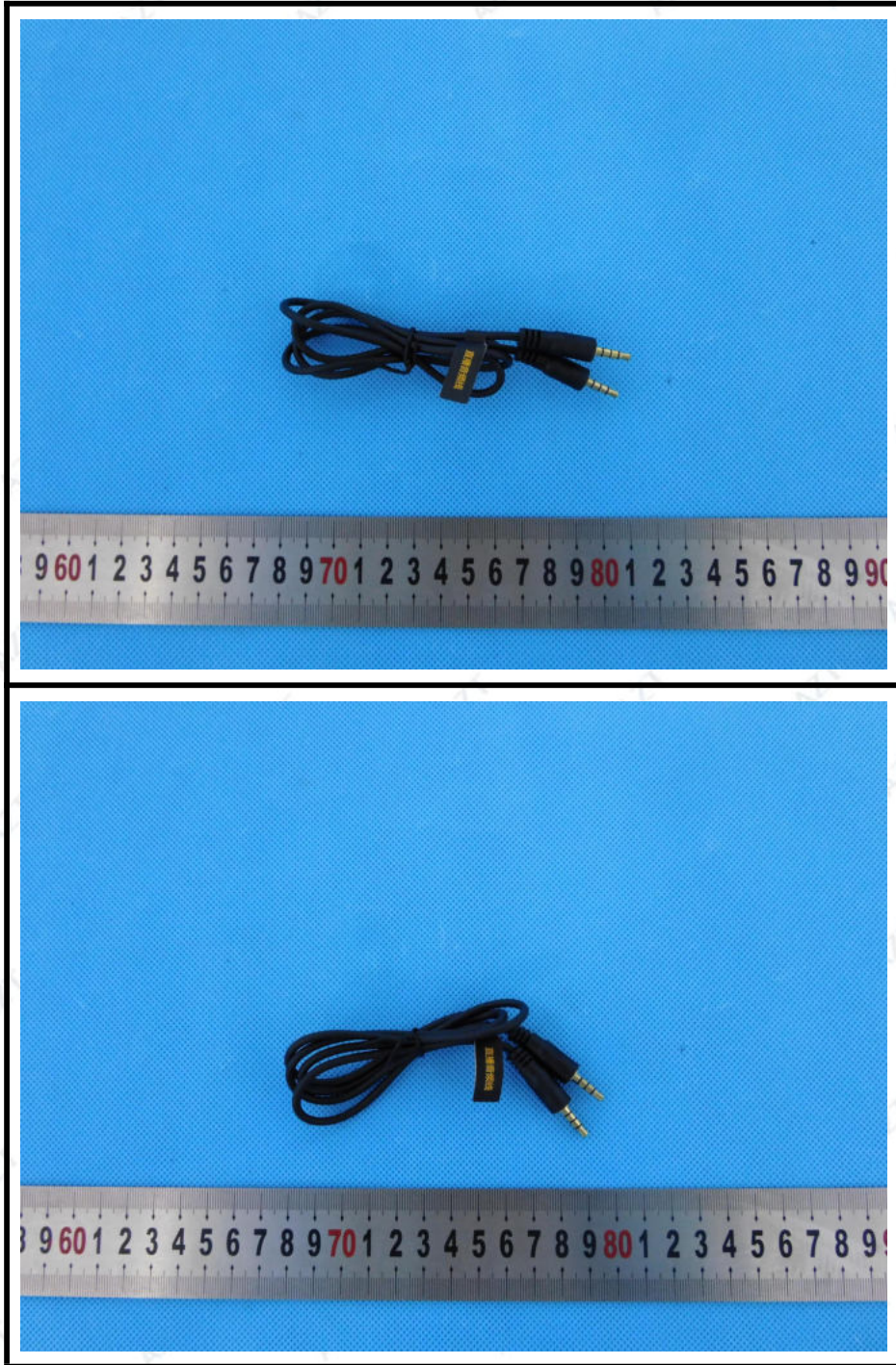
Page 16 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 17 of 37



TEST REPORT

Report No.: AZT032201130005C-010

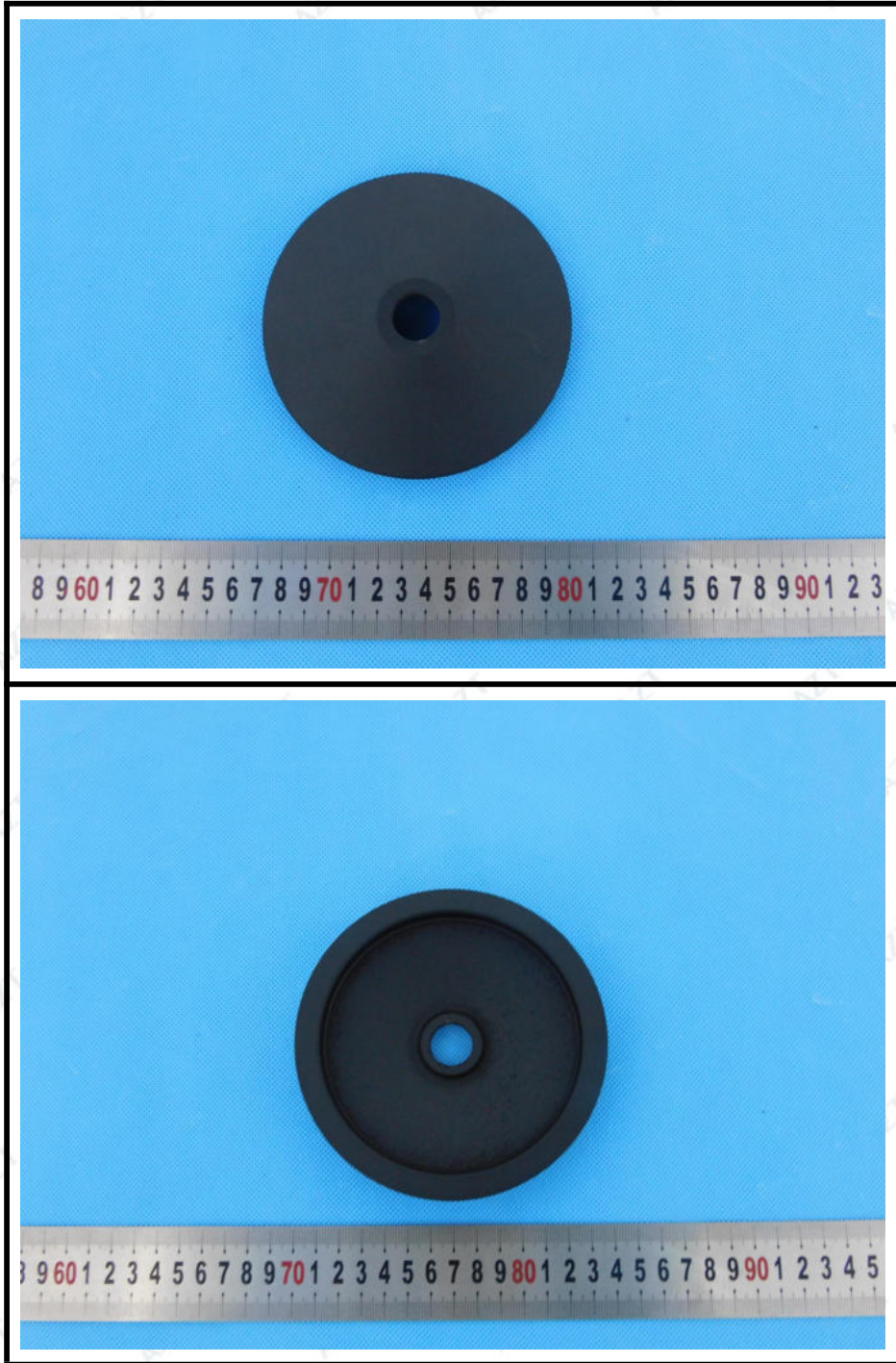
Page 18 of 37



TEST REPORT

Report No.: AZT032201130005C-010

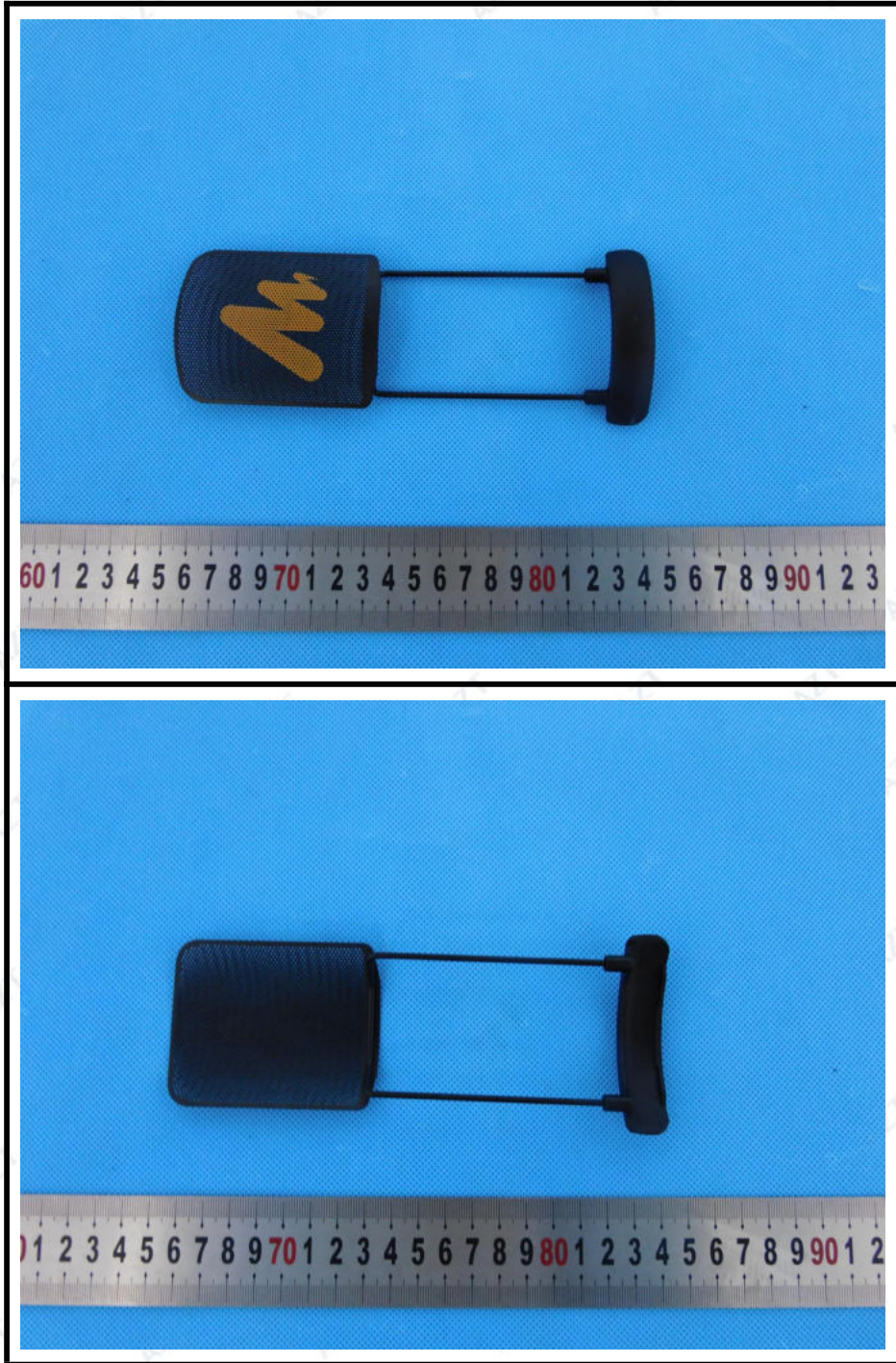
Page 19 of 37



TEST REPORT

Report No.: AZT032201130005C-010

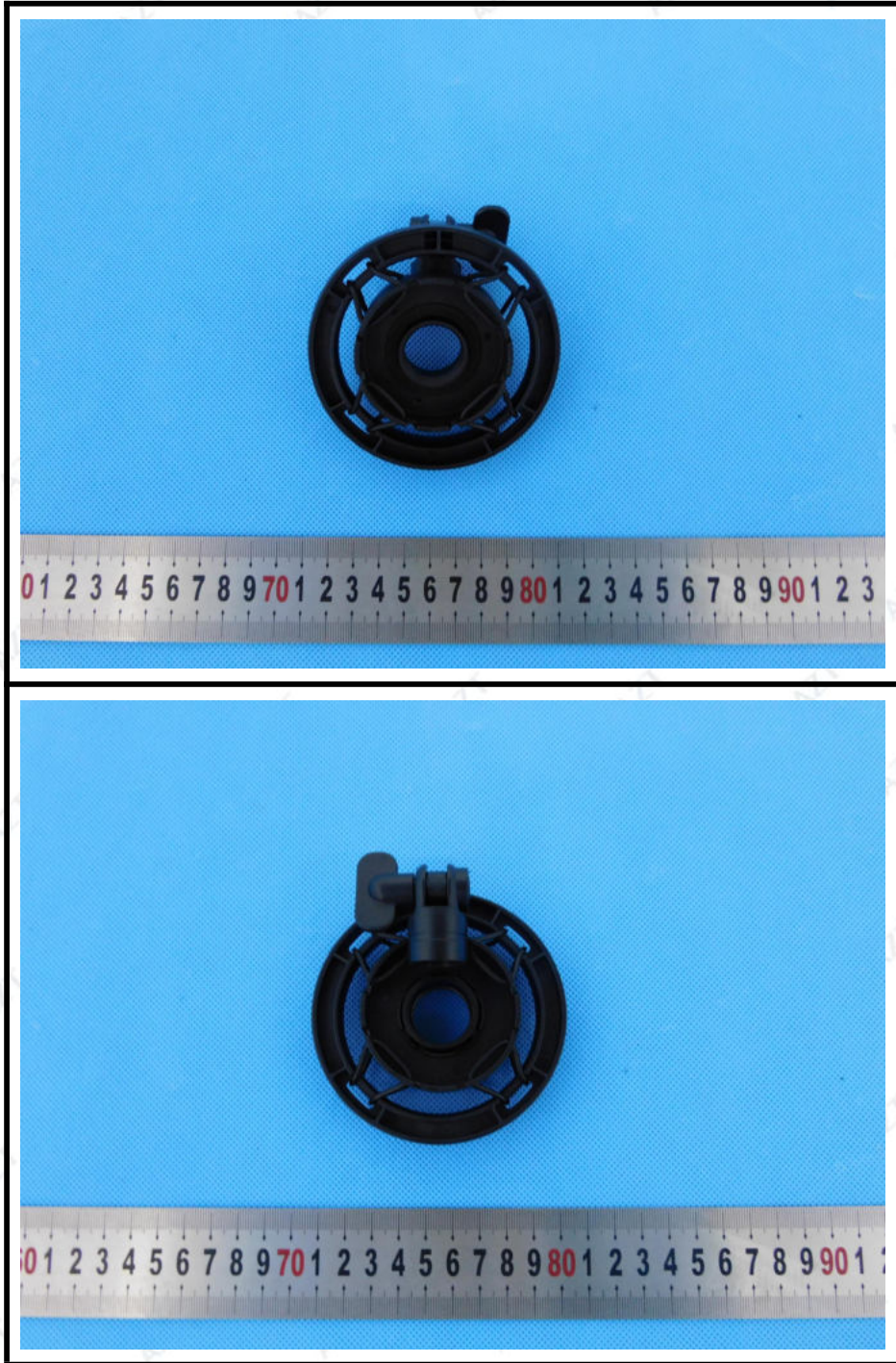
Page 20 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 21 of 37



TEST REPORT

Report No.: AZT032201130005C-010

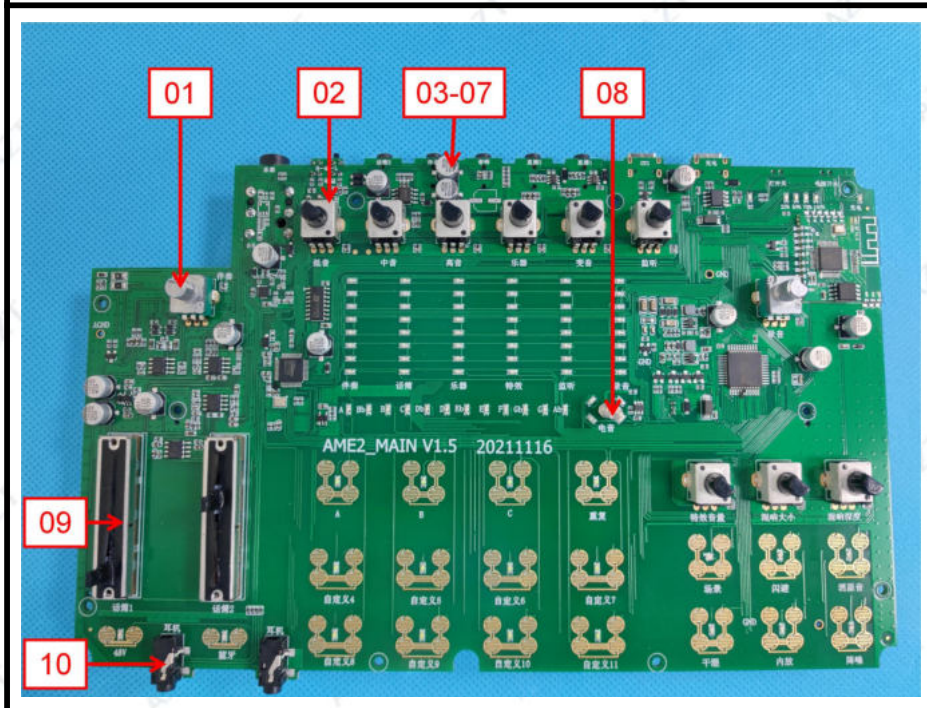
Page 22 of 37



TEST REPORT

Report No.: AZT032201130005C-010

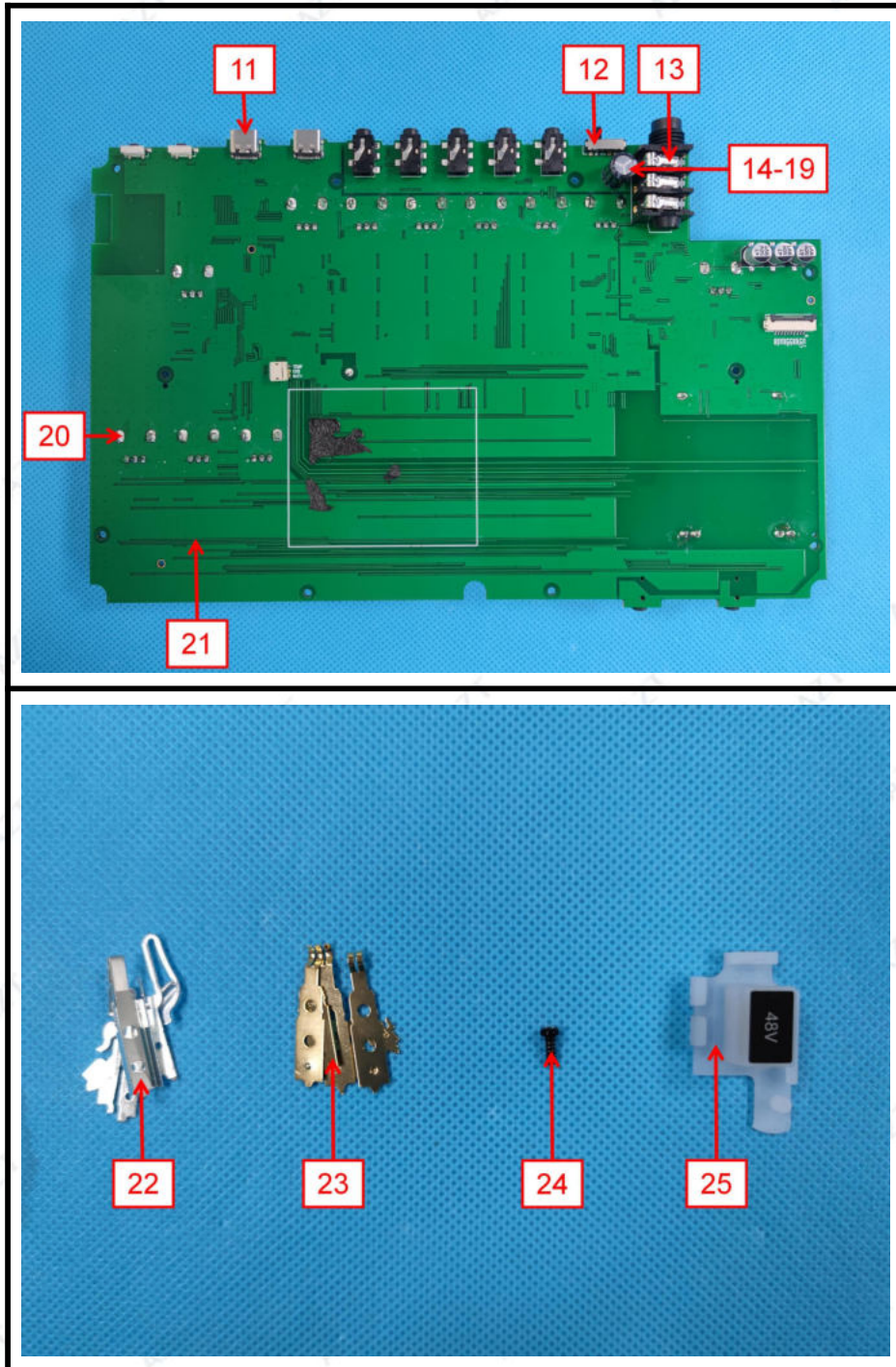
Page 23 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 24 of 37



TEST REPORT

Report No.: AZT032201130005C-010

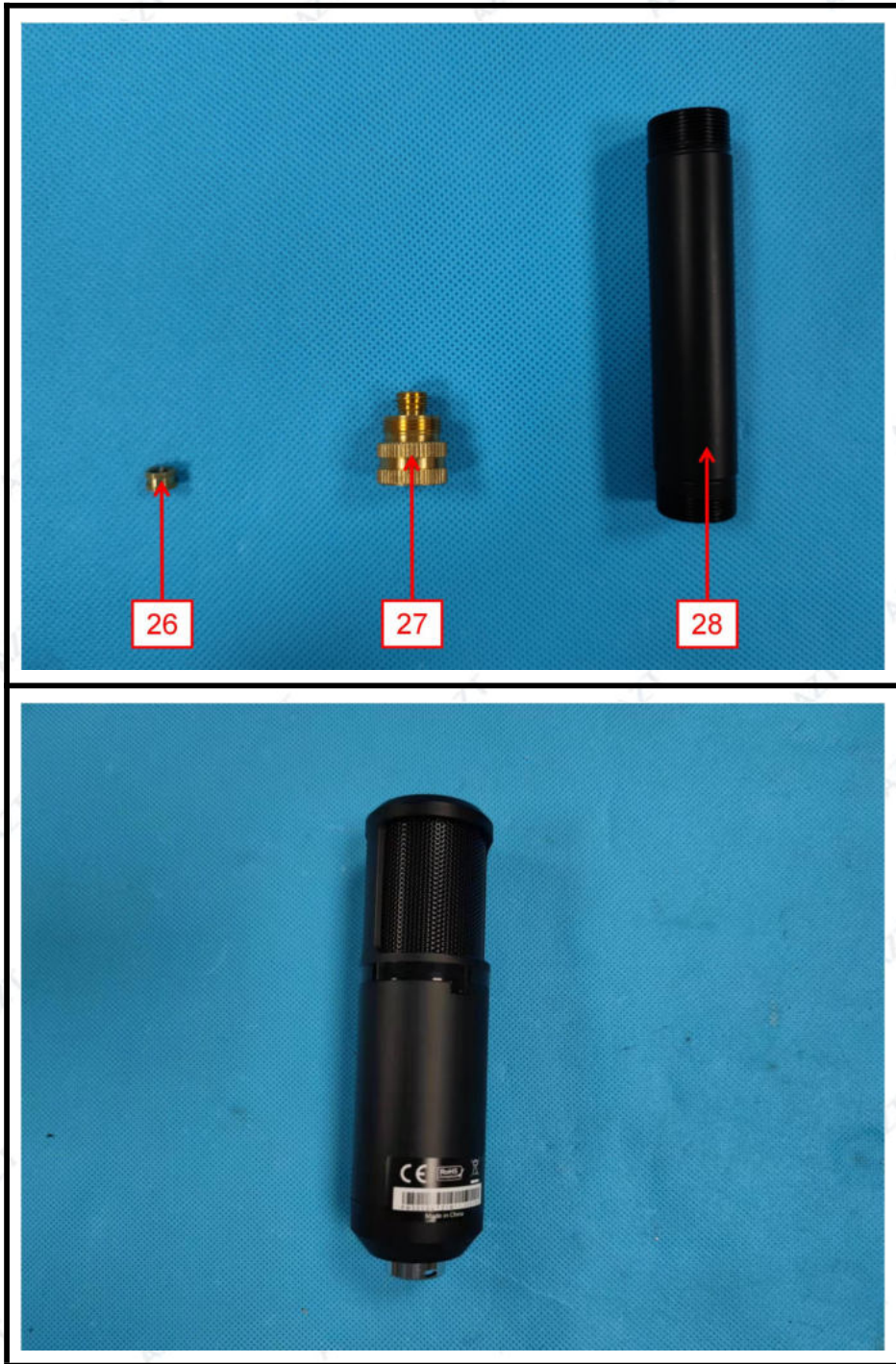
Page 25 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 26 of 37



TEST REPORT

Report No.: AZT032201130005C-010

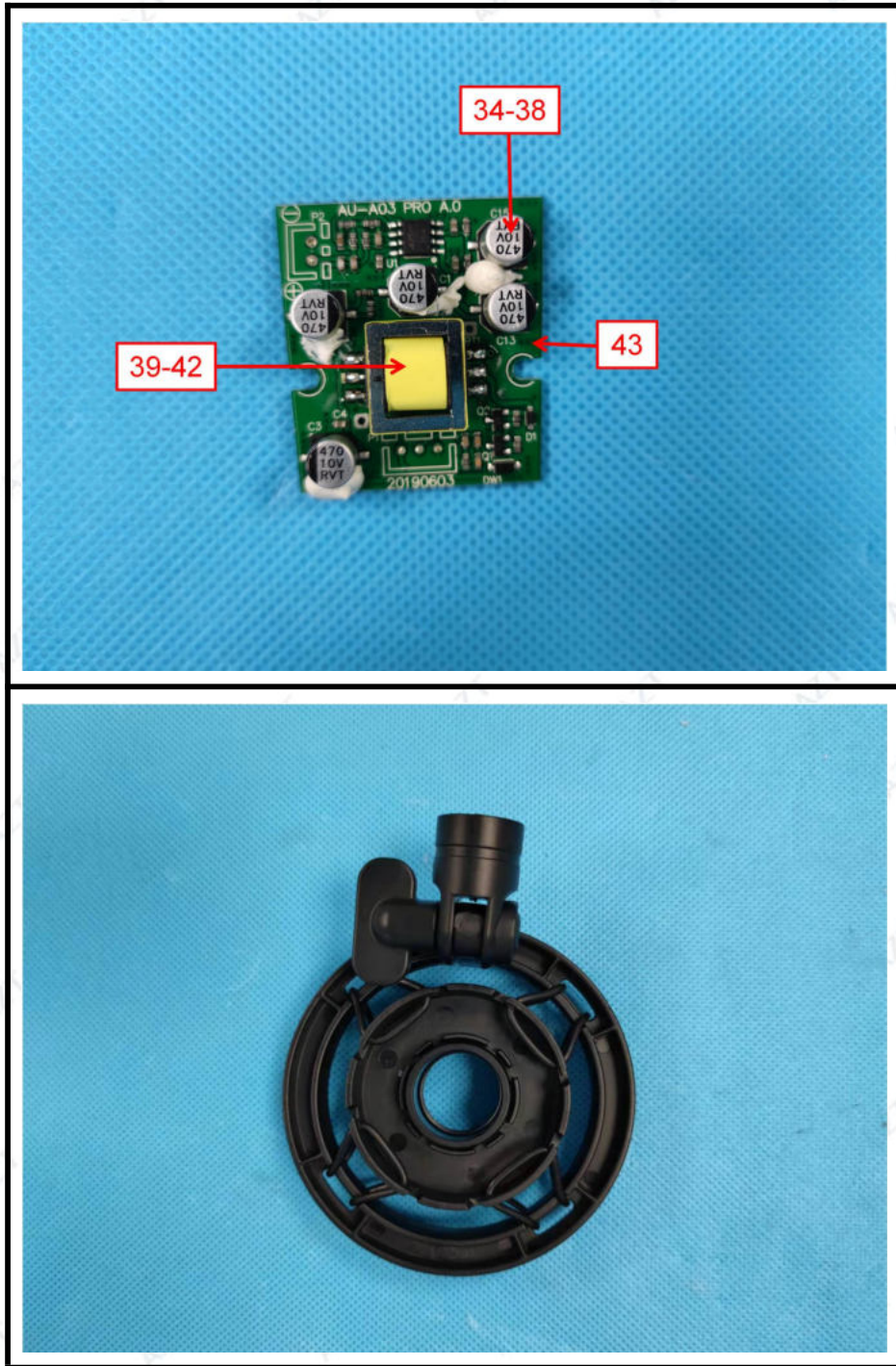
Page 27 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 28 of 37



TEST REPORT

Report No.: AZT032201130005C-010

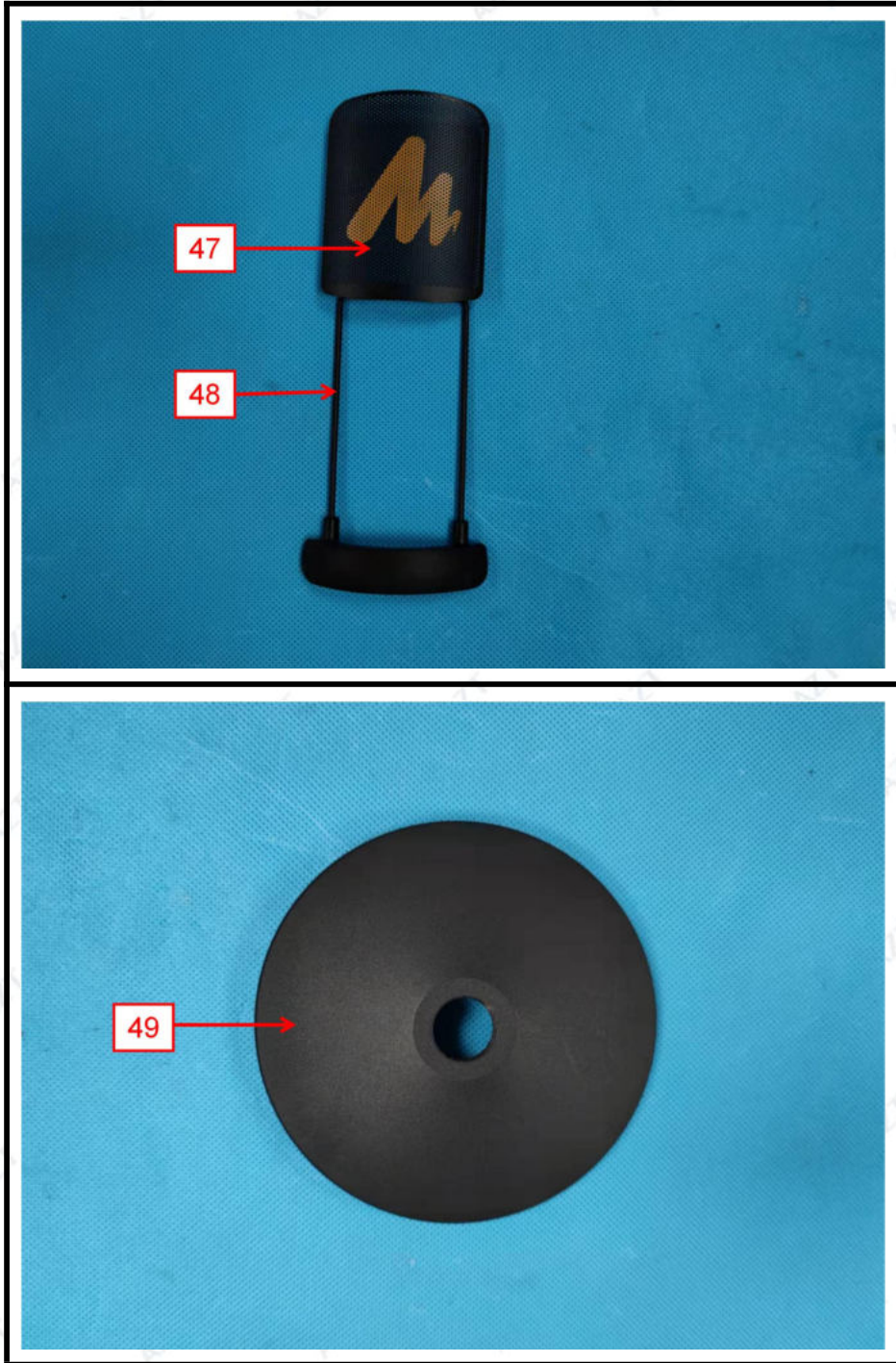
Page 29 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 30 of 37



TEST REPORT

Report No.: AZT032201130005C-010

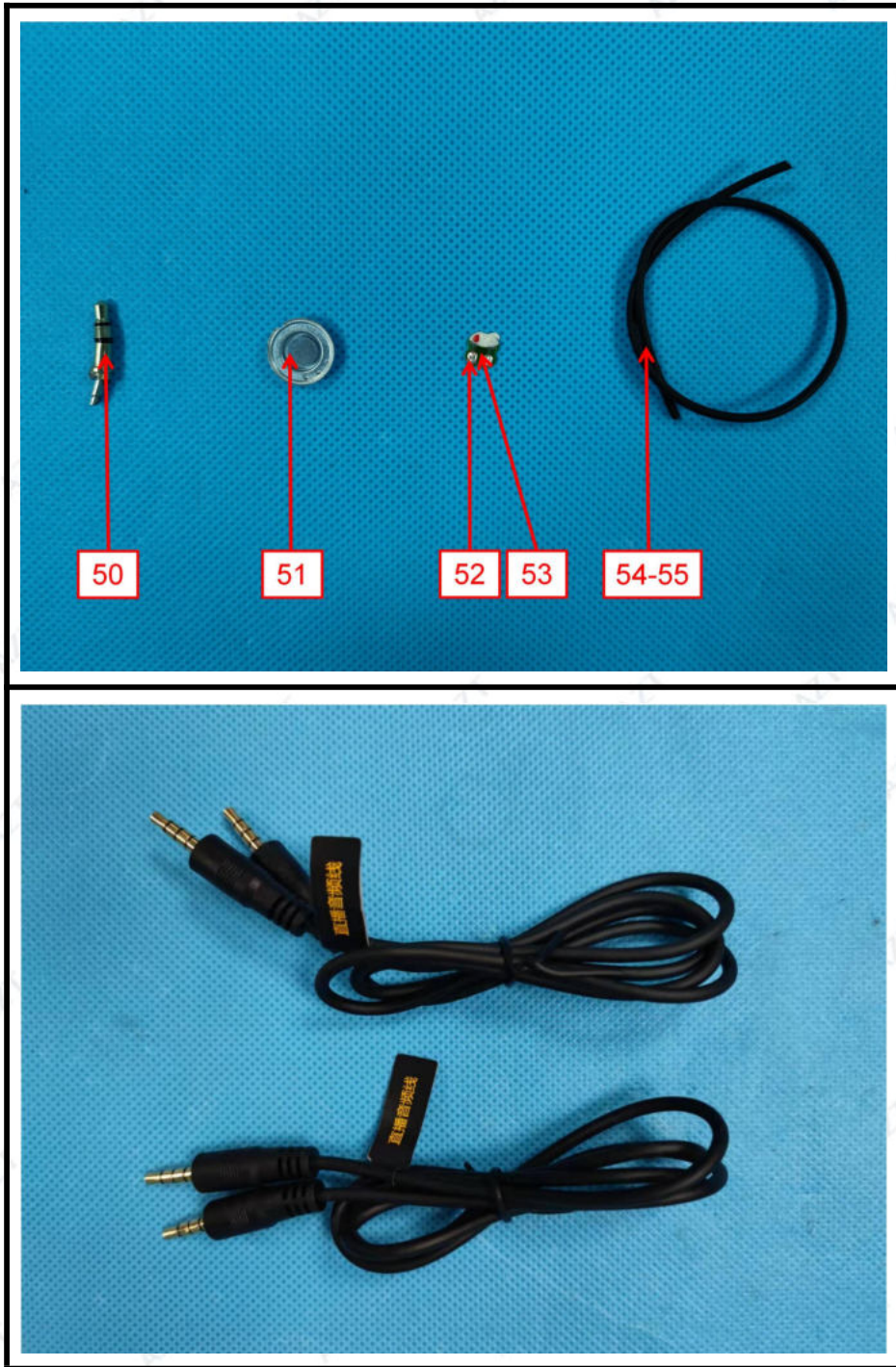
Page 31 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 32 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 33 of 37



TEST REPORT

Report No.: AZT032201130005C-010

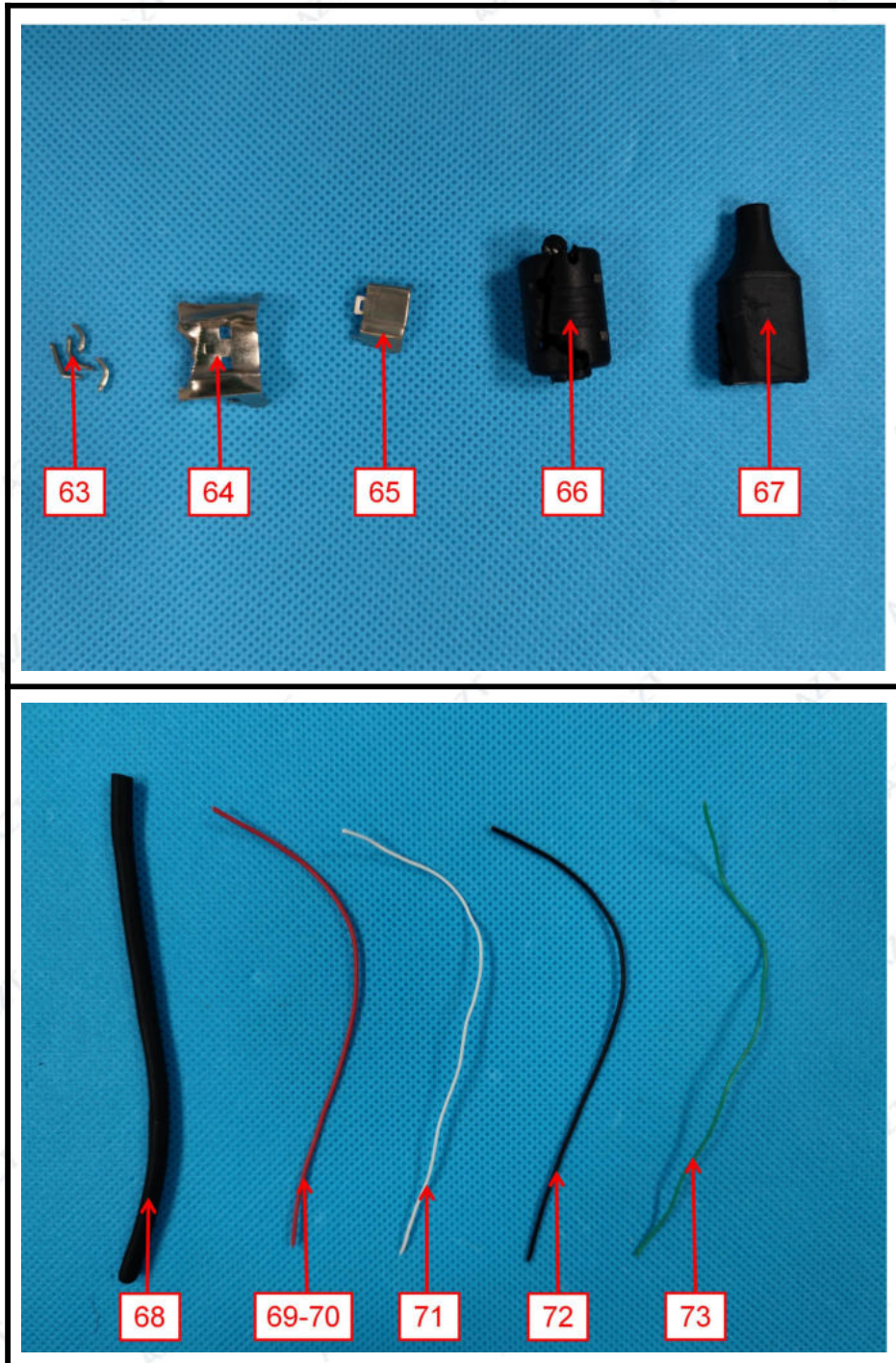
Page 34 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 35 of 37



TEST REPORT

Report No.: AZT032201130005C-010

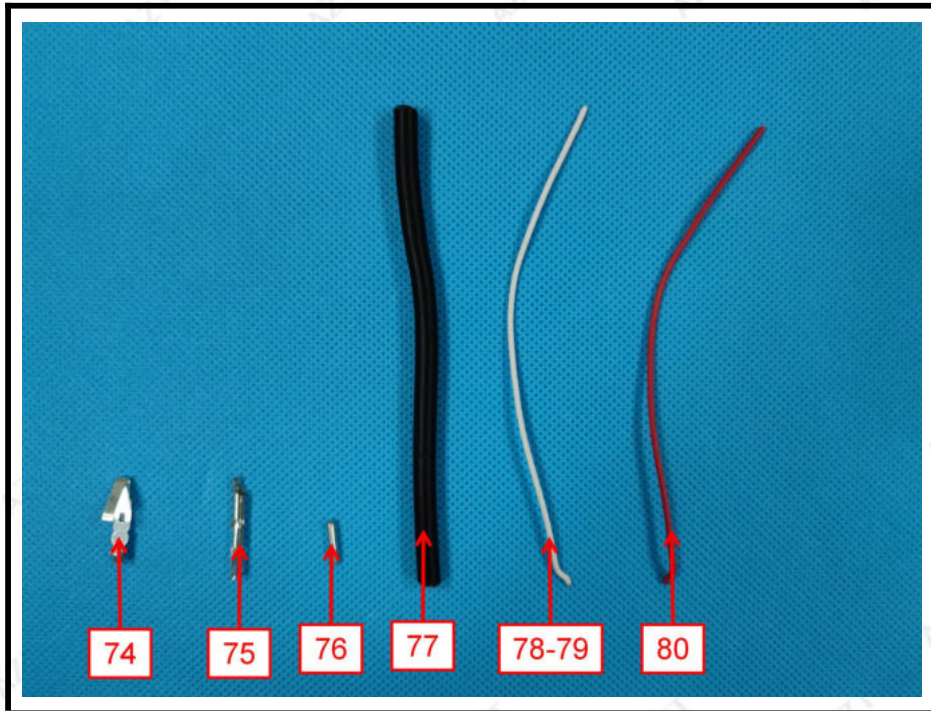
Page 36 of 37



TEST REPORT

Report No.: AZT032201130005C-010

Page 37 of 37



AZT authenticate the photo on original report only

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

Statement:

1. The test report is considered invalidated without approval signature, special seal on the perforation.
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.

