



TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 1 of 17

Applicant : Shenzhen Yipincheng Technology Co., Ltd.
Address : 4F, Building A, Hengchangrong Industrial Park, Pinghu Street,Longgang District, Shenzhen
Manufacturer : Shenzhen Yipincheng Technology Co., Ltd.
Address : 4F, Building A, Hengchangrong Industrial Park, Pinghu Street,Longgang District, Shenzhen

Report on the submitted samples said to be:

Sample Name : Digital microscope
Trade Mark : inskam
Tested model : inskam307
Series models : inskam306,inskam307C,inskam306C,inskam366,inskam367,inskam369,inskam376,inskam378,inskam380,inskam382,inskam386
Date of Sample Received : June 07, 2024
Testing Period : June 07, 2024 ~ June 17, 2024
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 2011/65/EU Annex II amending Directive (EU)2015/863.

Pass

Signed for and on behalf of AZT

Jack Zhong



Shenzhen AZT Technology Co., Ltd.

No.502, Building 1, Yibaolai Industrial City, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
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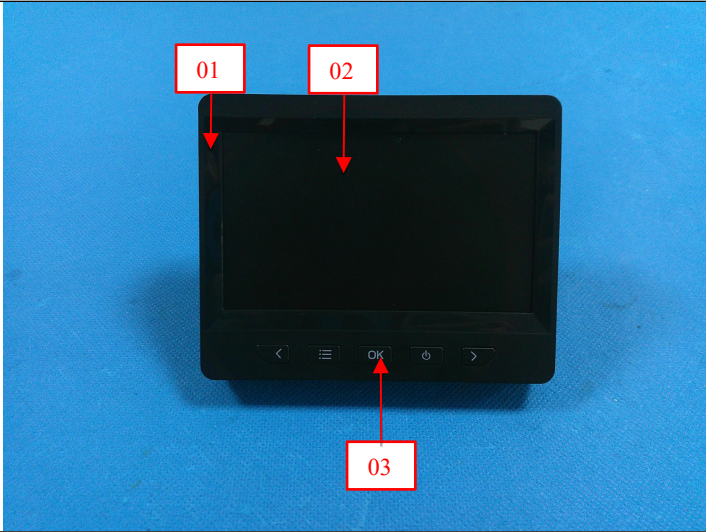
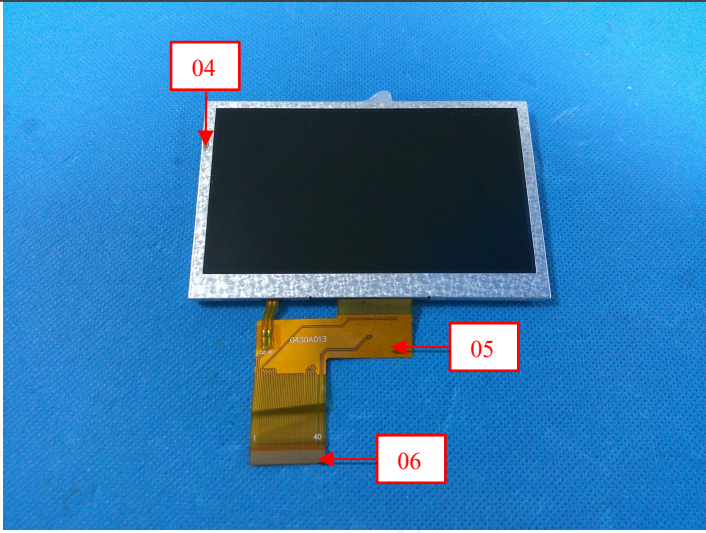
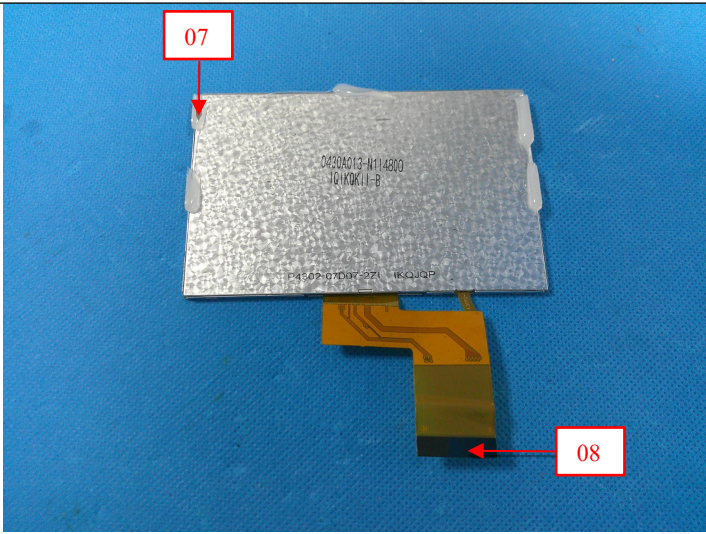
TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 2 of 17

Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
01	Black plastic shell	
02	Black glass screen	
03	Black plastic with white lettering	
04	Silvery metal shell	
05	Brown FPC	
06	Silvery metal contacts	
07	Transparent colloid	
08	Black plastic sheet	



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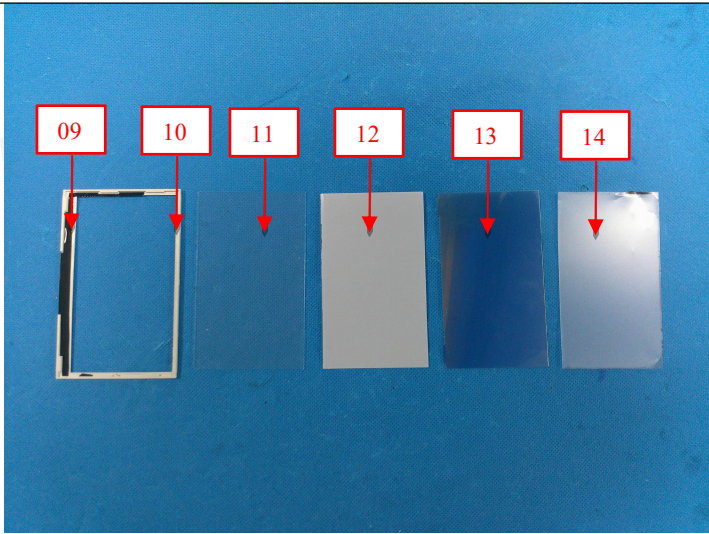
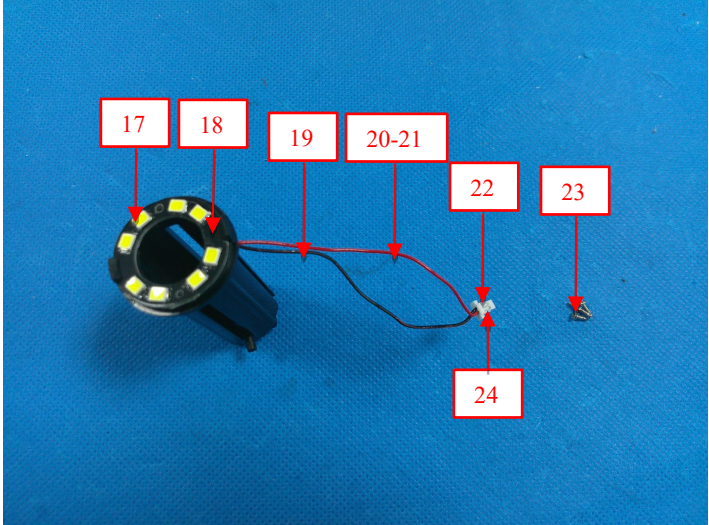


TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 3 of 17

No.	Tested Part(s)	The photo of the sample
09	Black tape	
10	White plastic frame	
11	Transparent plastic board	
12	White plastic sheet	
13	Transparent plastic sheet	
14	Silvery plastic sheet	
15	Black plastic	
16	Transparent plastic	
17	Yellow LED	
18	Black PCB	
19	Black wire jacket	
20	Red wire jacket	
21	Silvery metal core	
22	White plastic terminals	
23	Silvery metal screw	
24	Silvery metal contacts	



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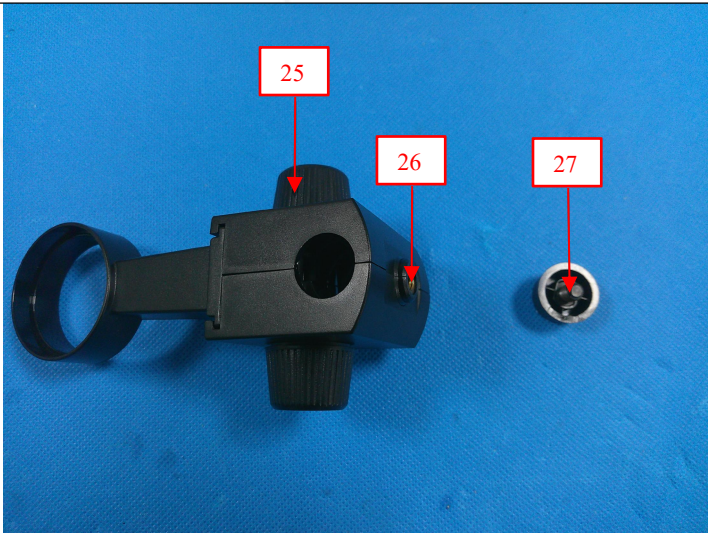
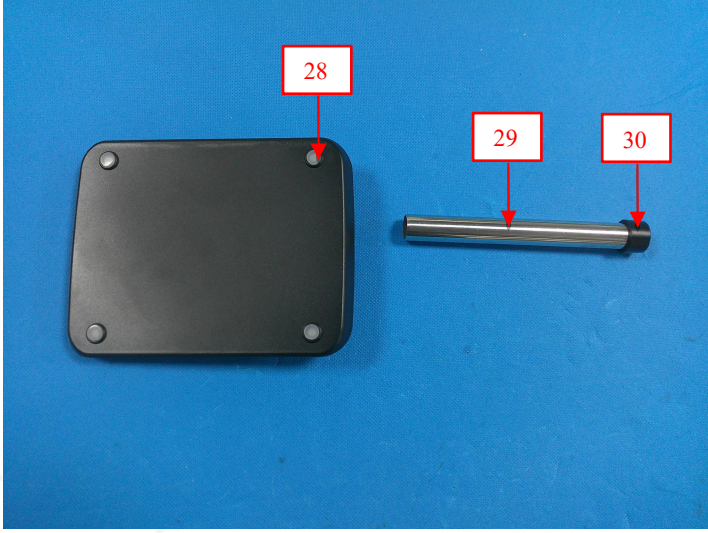
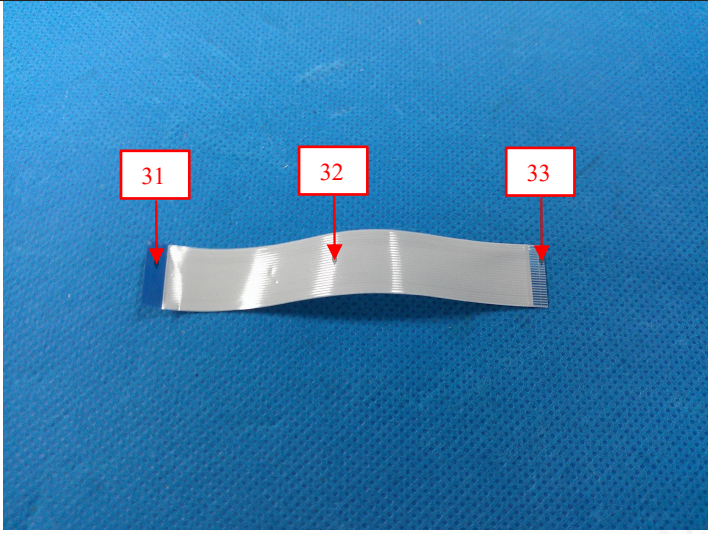


TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 4 of 17

No.	Tested Part(s)	The photo of the sample
25	Black plastic	
26	Copper metal	
27	Metal screws with black plating	
28	Transparent rubber pad	
29	Silvery metal	
30	Black plastic	
31	Blue plastic sheet	
32	White plastic sheet	
33	Silvery metal contacts	



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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 5 of 17

No.	Tested Part(s)	The photo of the sample
34	Black plastic	
35	Silvery metal	
36	Beige plastic	
37	Black plastic	
38	Silvery metal pin	
39	White plastic	
40	Silvery metal slice	
41	IC	
42	Silvery soldering tin	
43	Black adhesive tape	
44	Green PCB	
45	Black wire jacket	
46	Silvery metal shell	



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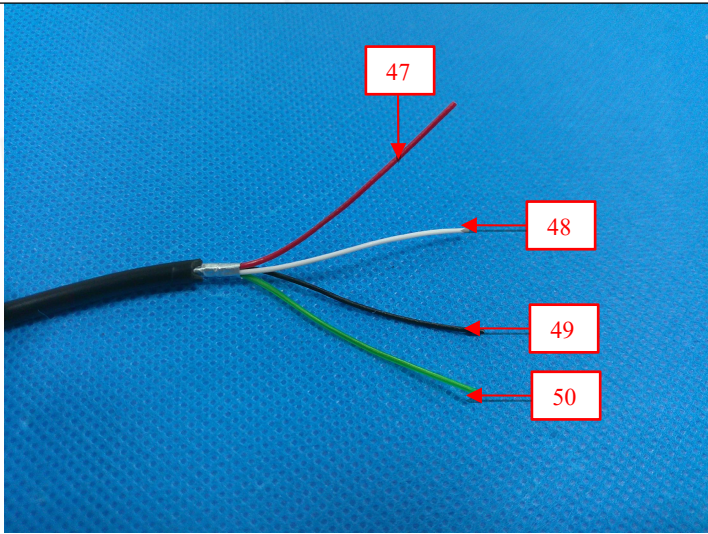
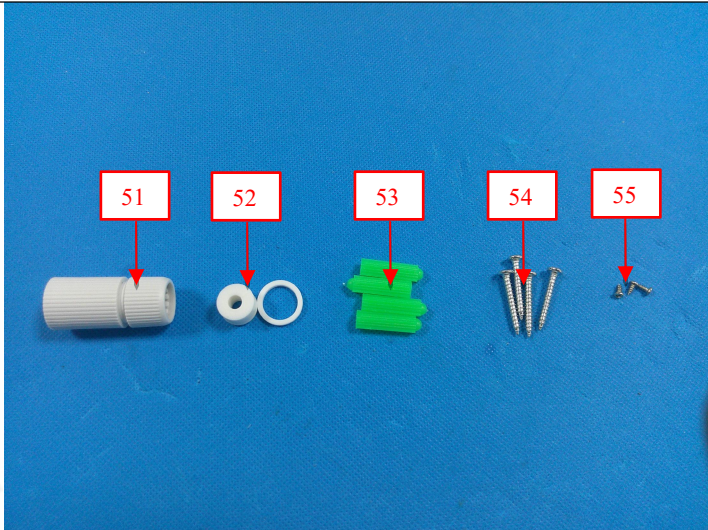


TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 6 of 17

No.	Tested Part(s)	The photo of the sample
47	Red wire jacket	
48	White wire jacket	
49	Black wire jacket	
50	Green wire jacket	
51	White plastic	
52	White rubber	
53	Green plastic	
54	Silvery metal screw	
55	Silvery metal screw	





TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 7 of 17

Results:

A. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 on XRF

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

No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
01	Black plastic shell	BL	BL	BL	BL	BL	BL
02	Black glass screen	BL	BL	BL	BL	BL	BL
03	Black plastic with white lettering	BL	BL	BL	BL	BL	BL
04	Silvery metal shell	BL	BL	BL	BL	/	/
05	Brown FPC	BL	BL	BL	BL	BL	BL
06	Silvery metal contacts	BL	BL	BL	BL	/	/
07	Transparent colloid	BL	BL	BL	BL	BL	BL
08	Black plastic sheet	BL	BL	BL	BL	BL	BL
09	Black tape	BL	BL	BL	BL	BL	BL
10	White plastic frame	BL	BL	BL	BL	BL	BL
11	Transparent plastic board	BL	BL	BL	BL	BL	BL
12	White plastic sheet	BL	BL	BL	BL	BL	BL
13	Transparent plastic sheet	BL	BL	BL	BL	BL	BL
14	Silvery plastic sheet	BL	BL	BL	BL	BL	BL
15	Black plastic	BL	BL	BL	BL	BL	BL
16	Transparent plastic	BL	BL	BL	BL	BL	BL
17	Yellow LED	BL	BL	BL	BL	BL	BL
18	Black PCB	BL	BL	BL	BL	X	X
19	Black wire jacket	BL	BL	BL	BL	BL	BL
20	Red wire jacket	BL	BL	BL	BL	BL	BL
21	Silvery metal core	BL	BL	BL	BL	/	/
22	White plastic terminals	BL	BL	BL	BL	BL	BL
23	Silvery metal screw	BL	BL	BL	BL	/	/
24	Silvery metal contacts	BL	BL	BL	BL	/	/
25	Black plastic	BL	BL	BL	BL	BL	BL
26	Copper metal	BL	OL	BL	BL	/	/
27	Metal screws with black plating	BL	BL	BL	BL	/	/
28	Transparent rubber pad	BL	BL	BL	BL	BL	BL



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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 8 of 17

No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
29	Silvery metal	BL	BL	BL	X	/	/
30	Black plastic	BL	BL	BL	BL	BL	BL
31	Blue plastic sheet	BL	BL	BL	BL	X	X
32	White plastic sheet	BL	BL	BL	BL	X	X
33	Silvery metal contacts	BL	BL	BL	BL	/	/
34	Black plastic	BL	BL	BL	BL	BL	BL
35	Silvery metal	BL	BL	BL	BL	/	/
36	Beige plastic	BL	BL	BL	BL	BL	BL
37	Black plastic	BL	BL	BL	BL	BL	BL
38	Silvery metal pin	BL	BL	BL	BL	/	/
39	White plastic	BL	BL	BL	BL	BL	BL
40	Silvery metal slice	BL	BL	BL	X	/	/
41	IC	BL	BL	BL	BL	BL	BL
42	Silvery soldering tin	BL	BL	BL	BL	/	/
43	Black adhesive tape	BL	BL	BL	BL	BL	BL
44	Green PCB	BL	BL	BL	BL	X	X
45	Black wire jacket	BL	BL	BL	BL	BL	BL
46	Silvery metal shell	BL	BL	BL	BL	/	/
47	Red wire jacket	BL	BL	BL	BL	BL	BL
48	White wire jacket	BL	BL	BL	BL	BL	BL
49	Black wire jacket	BL	BL	BL	BL	BL	BL
50	Green wire jacket	BL	BL	BL	BL	BL	BL
51	White plastic	BL	BL	BL	BL	BL	BL
52	White rubber	BL	BL	BL	BL	BL	BL
53	Green plastic	BL	BL	BL	BL	BL	BL
54	Silvery metal screw	BL	BL	BL	BL	/	/
55	Silvery metal screw	BL	BL	BL	BL	/	/



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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 9 of 17

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.

XRF screening limits for different materials:

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 RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.
- (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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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 10 of 17

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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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 11 of 17

B. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 - Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Mercury Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2015& IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

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

DBP, BBP, DEHP, DIBP Content:

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

1) The test results of Lead (Pb)

Test Item	Unit	MDL	Results	Limit
			26#	
Lead (Pb)	mg/kg	10	24669	1000

2) The test results of Hexavalent Chromium (Cr (VI))(metal)

Test Item	Unit	MDL	Results			Limit
			18	29	40	
Hexavalent Chromium (Cr(VI))▼	µg/cm ²	0.10	Negative	Negative	Negative	--

Note:

- MDL = Method Detection Limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²
- mg/kg = ppm
- N.D.=Not Detected (<MDL or LOQ)
- ▼ = a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13µg/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 0.10µg/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.
- Positive = result be regarded as not comply with RoHS requirement
- Negative = result be regarded as comply with RoHS requirement
- # The tested part(s) <26> is copper alloy. The lead content which is under 4% is exempted from the requirement of directive 2011/65/EU(RoHS)Annex III 6(c).



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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 12 of 17

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

Test Items	CAS No.	Unit	MDL	Results		Limit
				1+3+15	11+12+13	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results		Limit
				16+25+44	19+20+45	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	240	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results		Limit
				47+48+49	50	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	N.D.	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000



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TEST REPORT

Report No.:AZT24060712C-E1

Date of issue: June 17, 2024

Page 13 of 17

4) The test results of PBBs & PBDEs

Test Items	Unit	MDL	Results				Limit
			18	31	32	44	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)							
Monobromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL= Method detected limited
- The samples were mixed for phthalic acid test
- Tested part(s) was/were specified by client
- Flow chart appendix is included
- Photo appendix is included

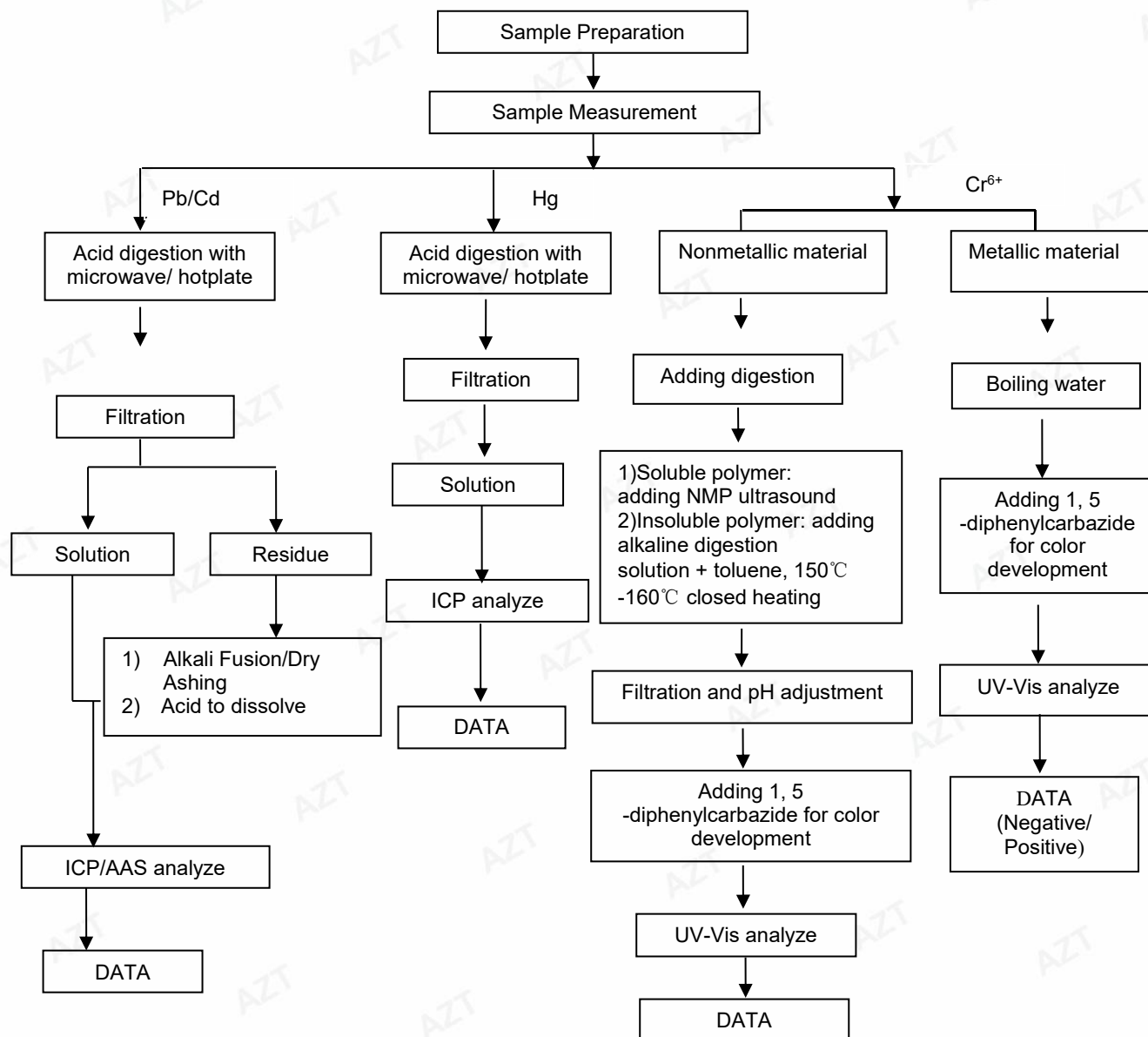


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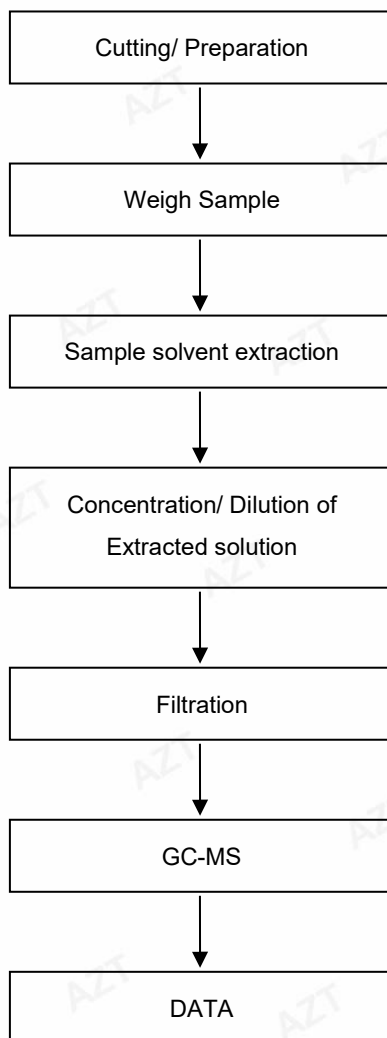
Appendix

Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



TEST REPORT

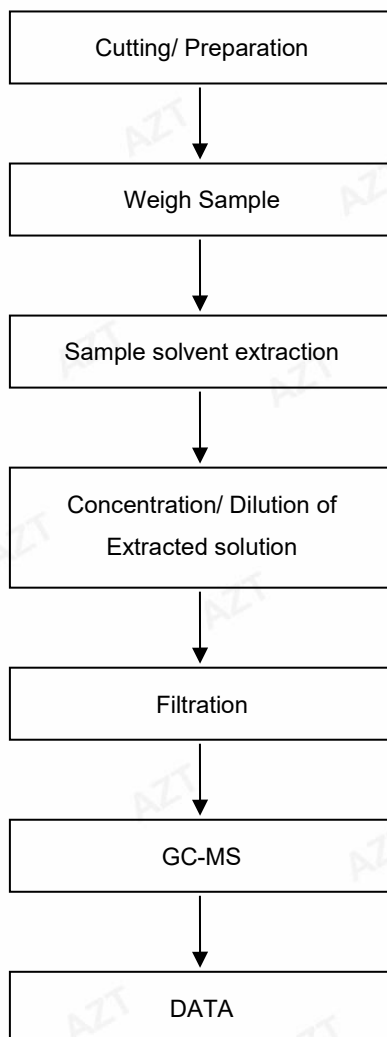
PBBs/PBDEs Testing Flow Chart





TEST REPORT

Phthalates Testing Flow Chart





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Report No.:AZT24060712C-E1

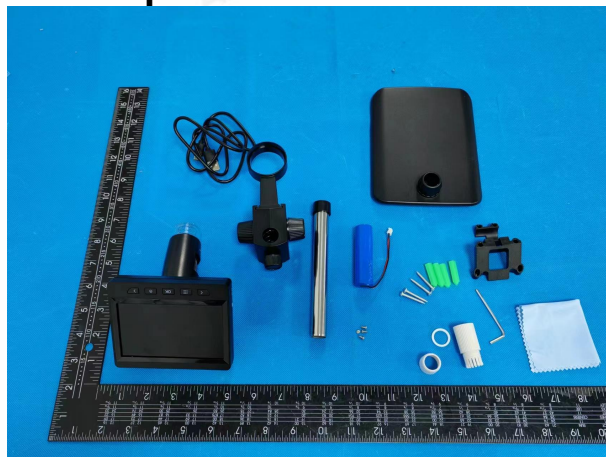
Date of issue: June 17, 2024

Page 17 of 17

The photo of the sample



Test sample



Test sample



AZT authenticate the photo on original report only

Declaration: Report AZT24060712C-E0 was repealed and replaced by Report AZT24060712C-E1.

Statement:

1. This test report is invalid without the signature of the approver and the special seal of the company's report.
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*** End of Report ***



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