



TEST REPORT

Report No.:AZT24060407C-E2

Date of issue: June 12, 2024

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Applicant : Shenzhen Sulang Technology Co.,Ltd
Address : Area C, 18th Floor, Building 12, Lehui Science and Technology
Innovation Center, No. 489 Jihua Road, Bantian Community, Longgang
District, Shenzhen City,China.
Manufacturer : Shenzhen Sulang Technology Co.,Ltd
Address : Area C, 18th Floor, Building 12, Lehui Science and Technology
Innovation Center, No. 489 Jihua Road, Bantian Community, Longgang
District, Shenzhen City,China.

Report on the submitted samples said to be:

Sample Name : Digital microscope
Tested model : inskam372
Series models : inskam372A,inskam372B,inskam372C,inskam372D ,
inskam372E,inskam372F,inskam372G,inskam372H,inskam372K,
NHKJ-VC-222,D8TP-6200,D8TP-6201,D8TP-6202,D8TP-6203,
D8TP-6204,D8TP-6205,D8TP-6206,D8TP-6207,D8TP-6208,D8TP-6209
Trade Mark : inskam
Date of Sample Received : June 04, 2024
Testing Period : June 04, 2024 ~ June 12, 2024
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 2011/65/EU Annex II amending Directive (EU)2015/863.

CONCLUSION

Pass

Signed for and on behalf of AZT

Jack Zhong



Shenzhen AZT Technology Co., Ltd.

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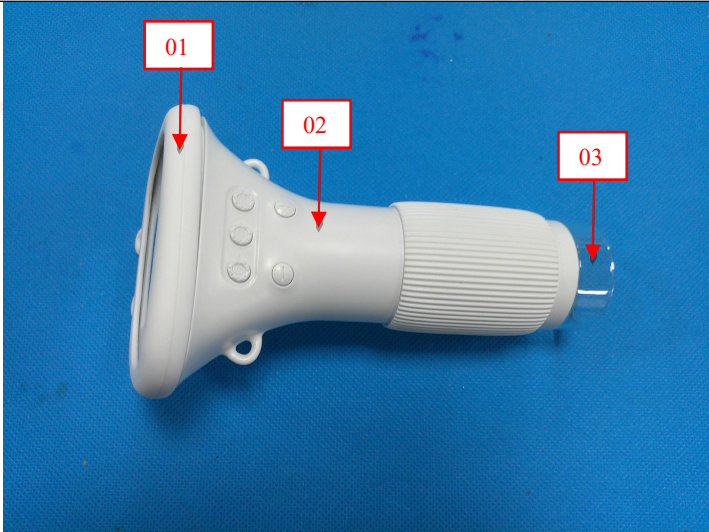
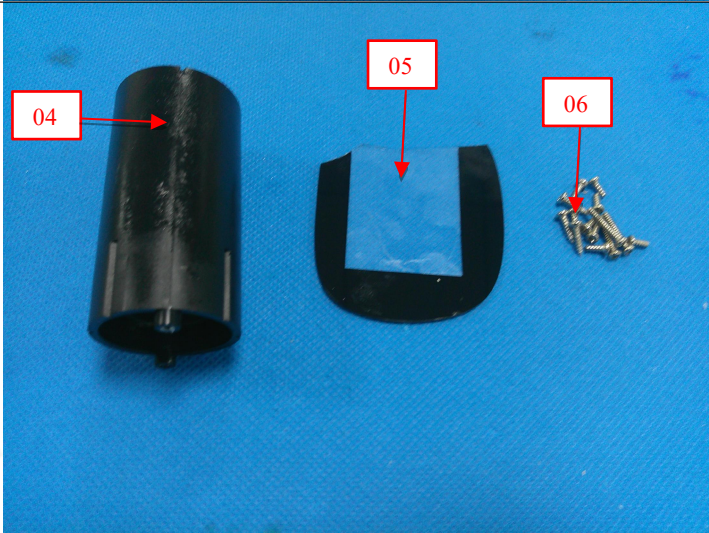
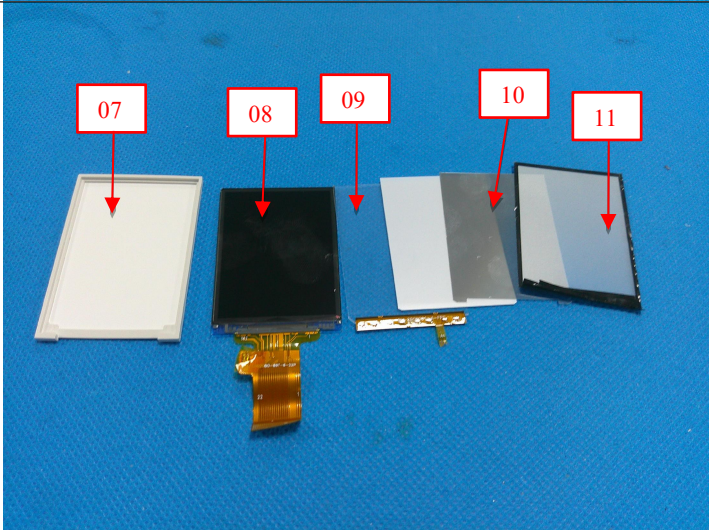
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Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
1	White silicone	
2	White plastic	
3	Transparent plastic	
4	Black plastic	
5	Transparent + black plastic	
6	Silvery metal screw	
7	White plastic film	
8	Glass	
9	Transparent plastic	
10	Silvery grey plastic film	
11	White plastic film	



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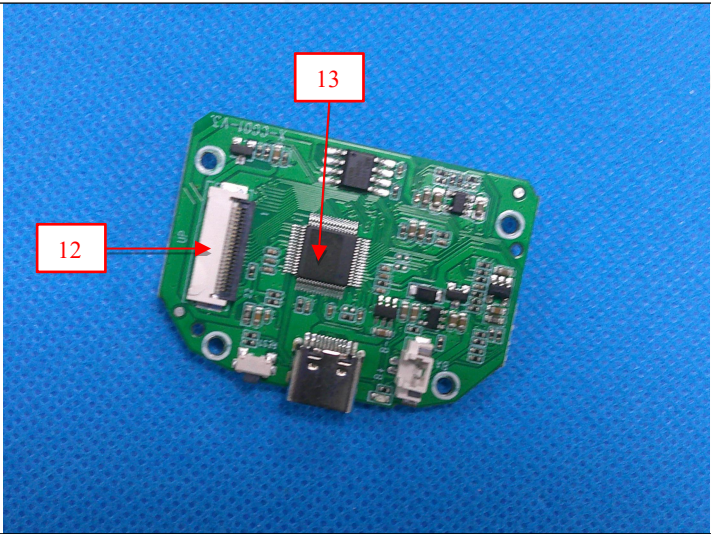
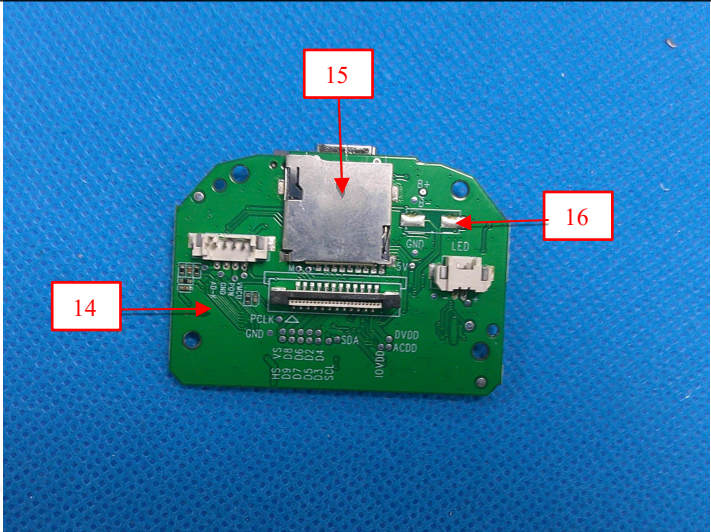
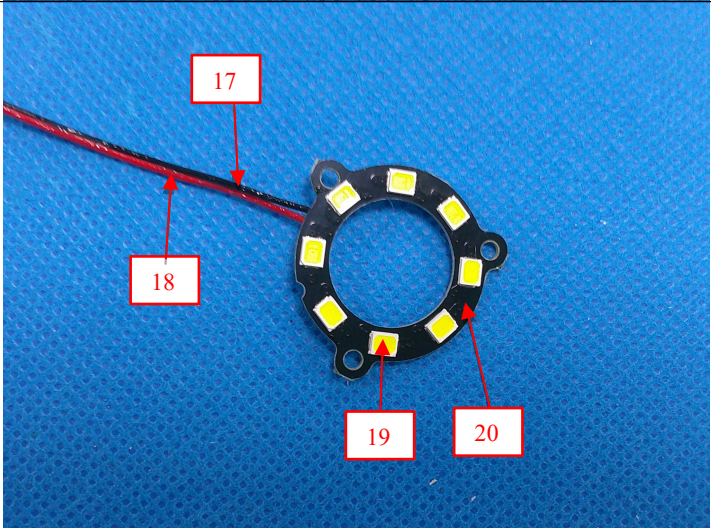


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No.	Tested Part(s)	The photo of the sample
12	White plastic	
13	IC	
14	Green PCB	
15	Silvery metal	
16	Metal soldering tin	
17	Black wire jacket	
18	Red wire jacket	
19	LED	
20	Black PCB	



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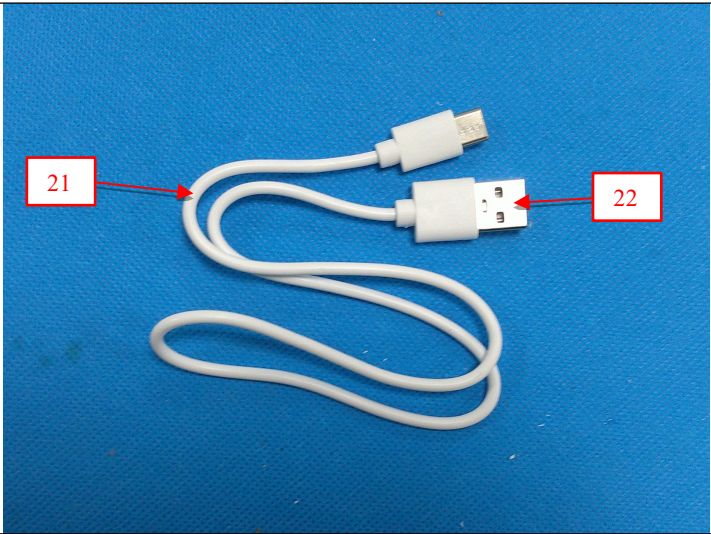
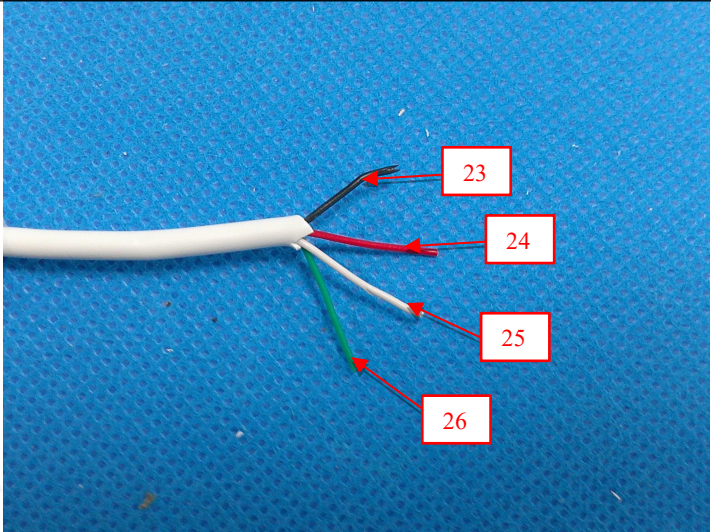
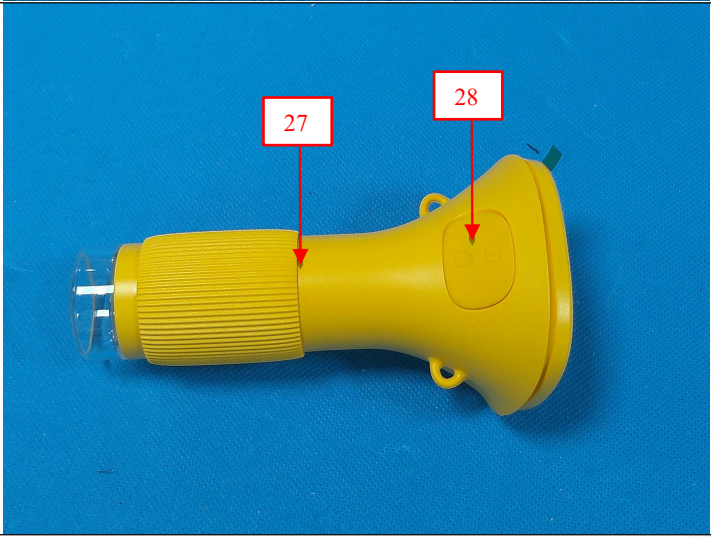


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No.	Tested Part(s)	The photo of the sample
21	White wire jacket	
22	Silvery metal	
23	Black wire jacket	
24	Red wire jacket	
25	White wire jacket	
26	Green wire jacket	
27	Yellow plastic	
28	Yellow silicone	





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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
1	White silicone	BL	BL	BL	BL	BL	BL
2	White plastic	BL	BL	BL	BL	BL	BL
3	Transparent plastic	BL	BL	BL	BL	BL	BL
4	Black plastic	BL	BL	BL	BL	BL	BL
5	Transparent + black plastic	BL	BL	BL	BL	BL	BL
6	Silvery metal screw	BL	BL	BL	BL	/	/
7	White plastic film	BL	BL	BL	BL	BL	BL
8	Glass	BL	BL	BL	BL	BL	BL
9	Transparent plastic	BL	BL	BL	BL	BL	BL
10	Silvery grey plastic film	BL	BL	BL	BL	BL	BL
11	White plastic film	BL	BL	BL	BL	BL	BL
12	White plastic	BL	BL	BL	BL	BL	BL
13	IC	BL	BL	BL	BL	BL	BL
14	Green PCB	BL	BL	BL	BL	X	X
15	Silvery metal	BL	BL	BL	X	/	/
16	Metal soldering tin	BL	BL	BL	BL	/	/
17	Black wire jacket	BL	BL	BL	BL	BL	BL
18	Red wire jacket	BL	BL	BL	BL	BL	BL
19	LED	BL	BL	BL	BL	BL	BL
20	Black PCB	BL	BL	BL	BL	BL	BL
21	White wire jacket	BL	BL	BL	BL	BL	BL
22	Silvery metal	BL	BL	BL	BL	/	/
23	Black wire jacket	BL	BL	BL	BL	BL	BL
24	Red wire jacket	BL	BL	BL	BL	BL	BL
25	White wire jacket	BL	BL	BL	BL	BL	BL
26	Green wire jacket	BL	BL	BL	BL	BL	BL
27	Yellow plastic	BL	BL	BL	BL	BL	BL
28	Yellow silicone	BL	BL	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.

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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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. 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 Hexavalent Chromium (Cr (VI))(metal)

Test Item	Unit	MDL	Results	Limit
			15	
Hexavalent Chromium (Cr(VI))▼	µg/cm ²	0.10	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



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

Test Items	CAS No.	Unit	MDL	Results		Limit
				1+5+28	2+3+4	
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
				7+9+10	11+12+14	
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
				17+18	21+23	
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
				24+25+26	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	1000
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	1000
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	1000



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3) The test results of PBBs & PBDEs

Test Items	Unit	MDL	Results	Limit
			14	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	mg/kg	50	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	/
Total content	mg/kg	/	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)				
Monobromodiphenyl ether	mg/kg	50	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	/
Decabromodiphenyl ether	mg/kg	50	N.D.	/
Total content	mg/kg	/	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

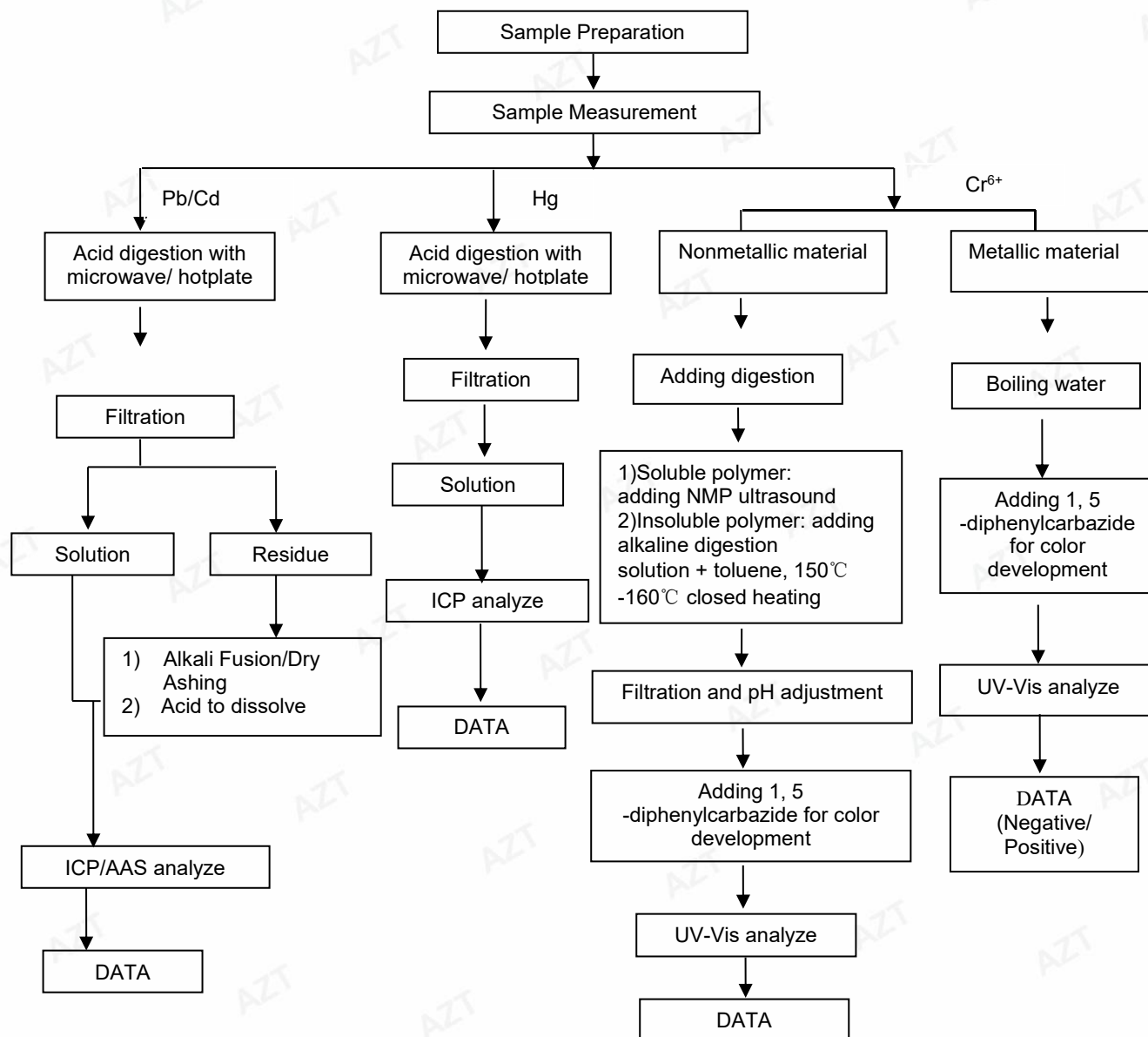


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Appendix

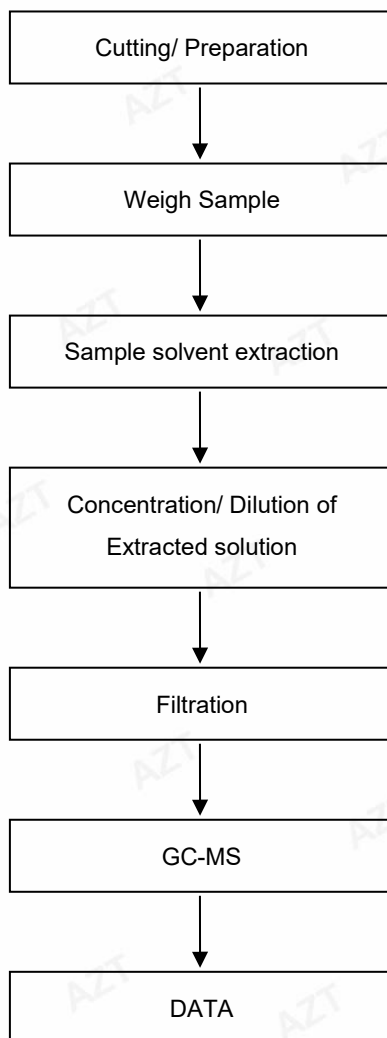
Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart





TEST REPORT

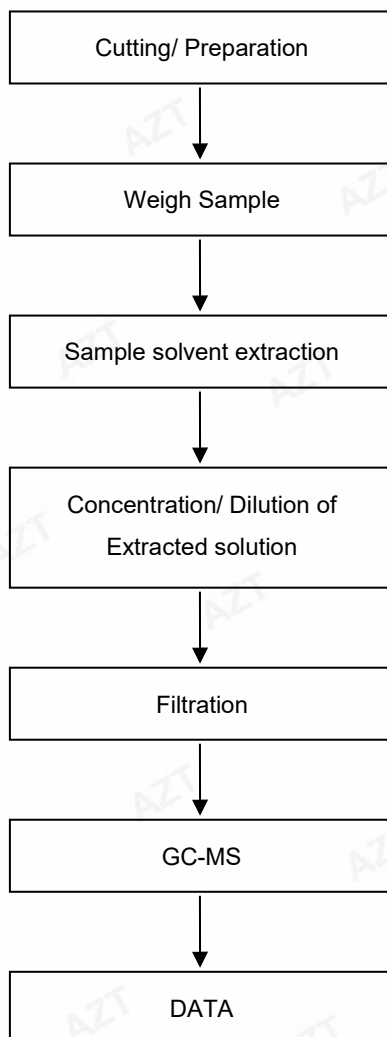
PBBs/PBDEs Testing Flow Chart





TEST REPORT

Phthalates Testing Flow Chart



The photo of the sample



AZT authenticate the photo on original report only

Declaration: Report AZT24060407C-E1 was repealed and replaced by Report AZT24060407C-E2.

Statement:

1. This test report is invalid without the signature of the approver and the special seal of the company's report.
2. The copy of the test report is invalid if the "special seal for testing" or "Special Seal for testing" or the official seal of the testing unit is not re-stamped.
3. After the test report is altered, the test report is invalid.
4. If there is any objection to the test report, please submit written comments to the laboratory within 15 days from the date of receipt of the report.
5. This test is only responsible for samples provided by customers.
6. This report shall not be reproduced in whole or in part without the written authorization of the Company.
7. The laboratory is not responsible for sampling, all samples are provided by customers.
8. The test results in this test report are only related to the samples provided by the customer.
9. If the report is not stamped with the qualification mark, it is only used for scientific research, teaching, internal quality control and other activities, and does not have a proof role for the society.

*** End of Report ***

