



中国认可
国际互认
检测
TESTING
CNAS L10844

TEST REPORT

Report No.: AZT24062829C-E0

Date of issue: July 05, 2024

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Applicant : SNOKO ELECTRONIC TECHNOLOGY CO., LTD
Room 1302, Building 3, Songhu Wisdom Valley Scientific Research
Address : Center, No.6, Minfu Road, Liaobu Town, Dongguan City, Guangdong Province
Manufacturer : SNOKO ELECTRONIC TECHNOLOGY CO., LTD
Room 1302, Building 3, Songhu Wisdom Valley Scientific Research
Address : Center, No.6, Minfu Road, Liaobu Town, Dongguan City, Guangdong Province

Report on the submitted samples said to be:

Sample Name : Smart Audio Glasses
Tested model : MINISO-088
Date of Sample Received : June 28, 2024
Testing Period : June 28, 2024 ~ July 05, 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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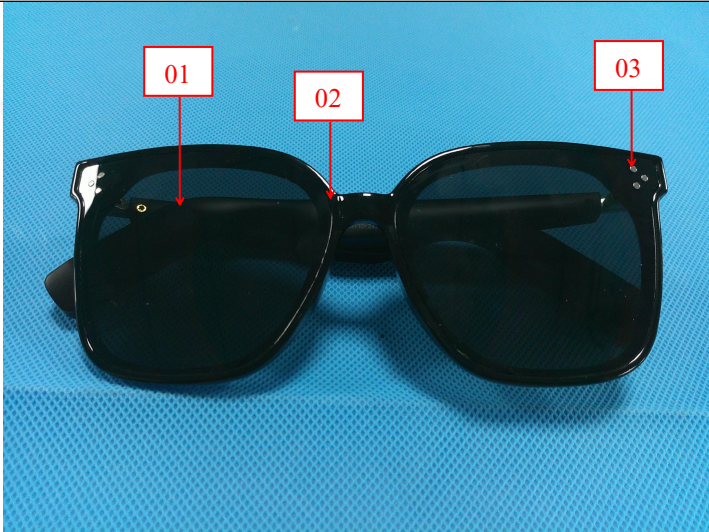
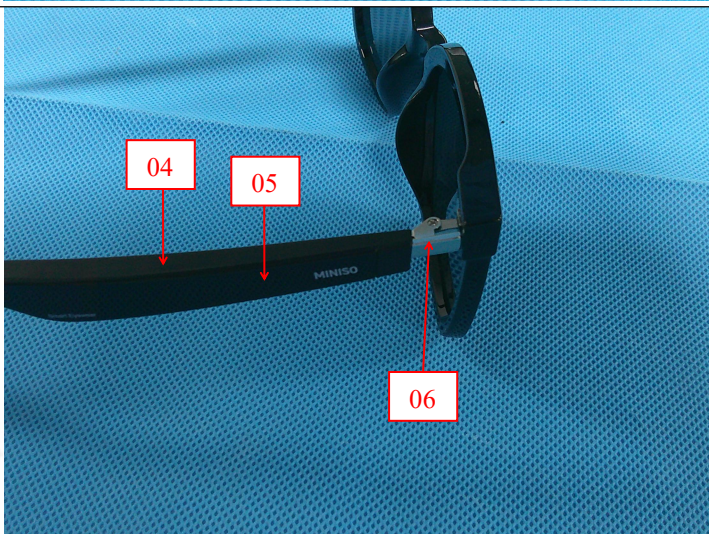
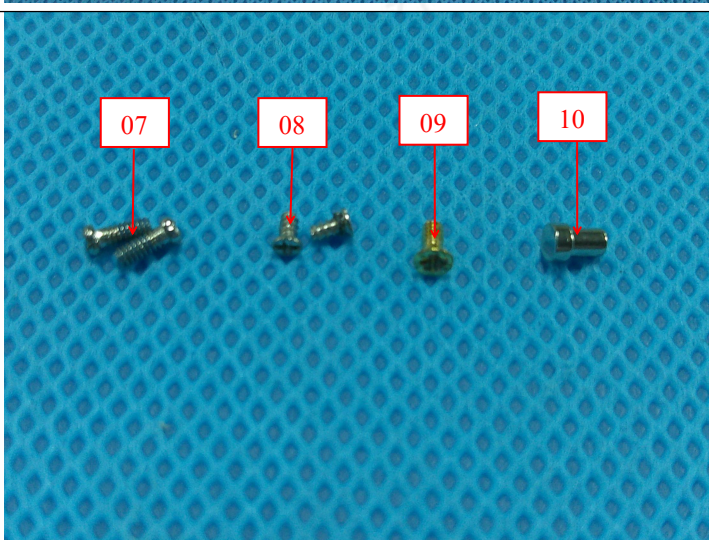
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Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
01	Black transparent plastic	
02	Black plastic	
03	Silvery metal	
04	Black plastic	
05	Black plastic	
06	Silvery metal	
07	Silvery metal screw	
08	Silvery metal screw	
09	Gold metal screw	
10	Silvery metal	



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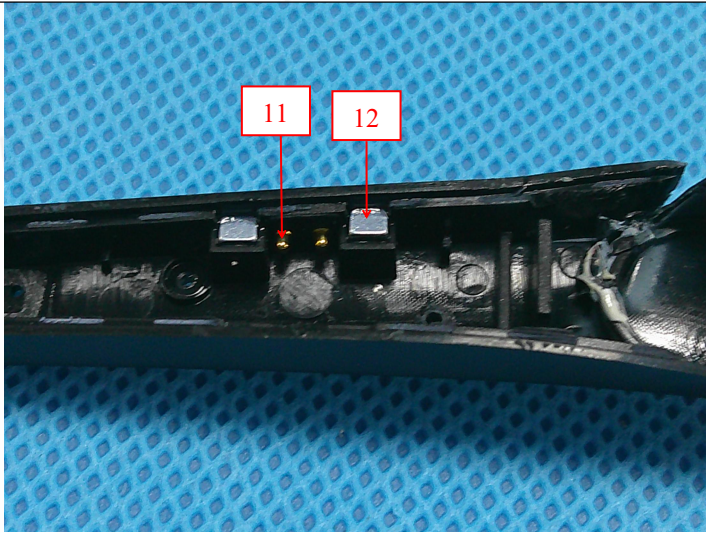
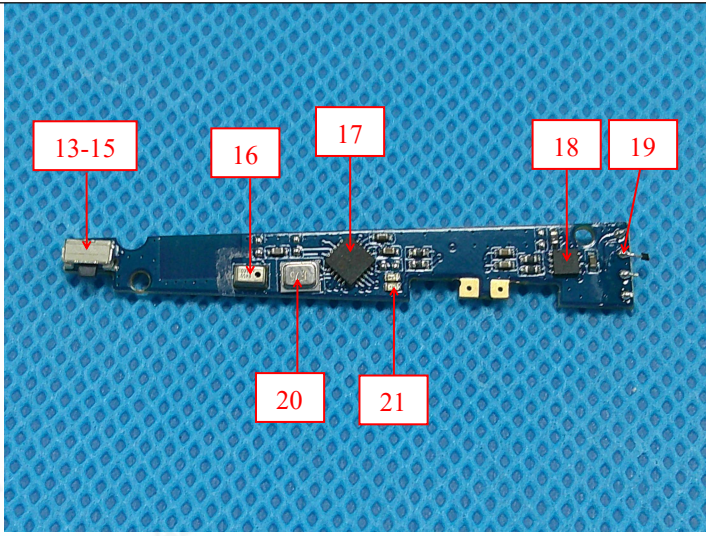
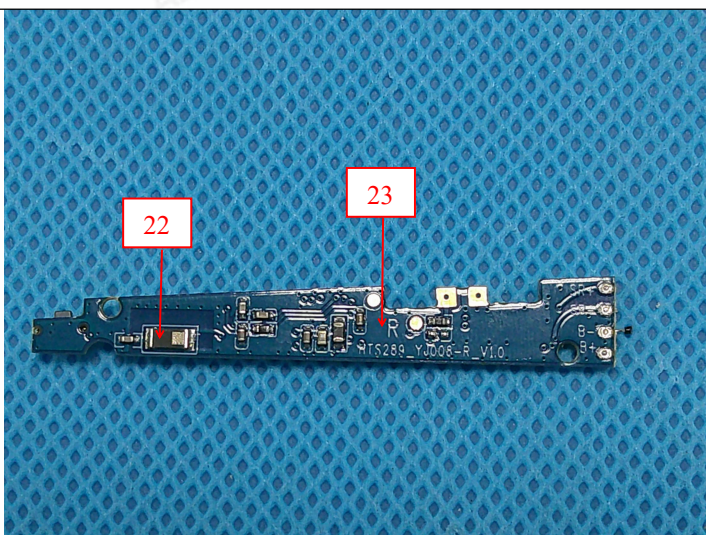


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No.	Tested Part(s)	The photo of the sample
11	Metal with gold plating	
12	Silvery metal magnet	
13	Beige plastic	
14	Black plastic	
15	Silvery metal	
16	Metal crystal oscillator	
17	IC	
18	IC	
19	Metal soldering tin	
20	Metal crystal oscillator	
21	LED	
22	Chip crystal	
23	Blue PCB	



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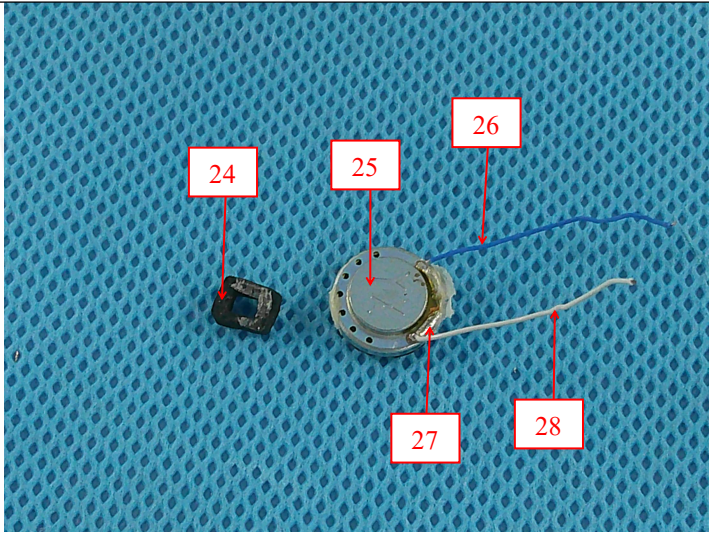
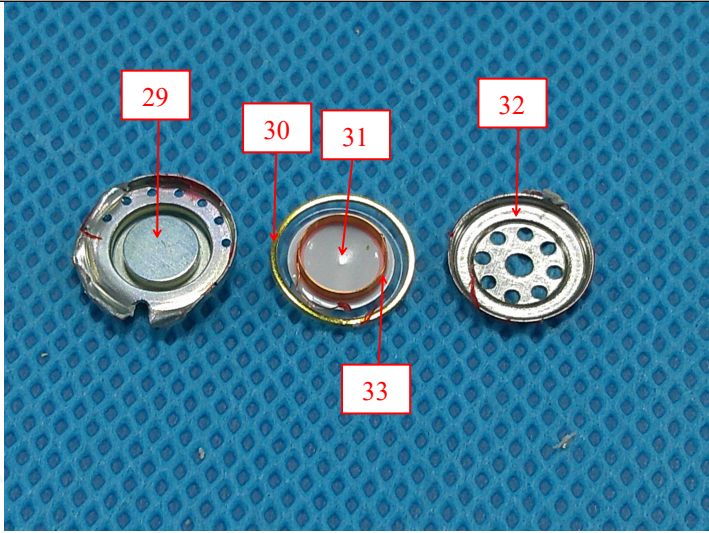
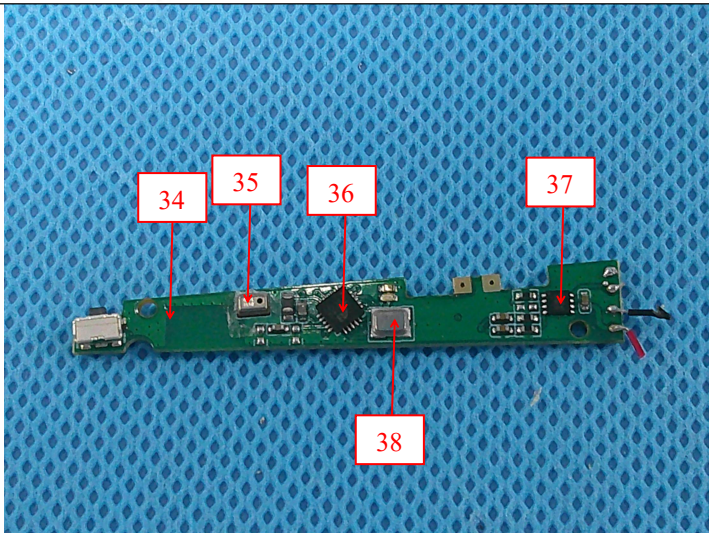


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No.	Tested Part(s)	The photo of the sample
24	Black foam with glue	
25	Silvery metal	
26	Blue wire jacket	
27	Metal soldering tin	
28	White wire jacket	
29	Silvery metal magnet	
30	Metal with gold coating	
31	White+transparent plastic	
32	Silvery metal	
33	Copper metal	
34	Green PCB	
35	Metal crystal oscillator	
36	IC	
37	IC	
38	Metal crystal oscillator	



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No.	Tested Part(s)	The photo of the sample
39	Yellow transparent tape	
40	Black tape	
41	IC	
42	Silvery metal sheet	
43	Black wire jacket	
44	Green PCB	
45	Red wire jacket	
46	Silvery metal core	



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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
01	Black transparent plastic	BL	BL	BL	BL	BL	BL
02	Black plastic	BL	BL	BL	BL	BL	BL
03	Silvery metal	BL	BL	BL	BL	/	/
04	Black plastic	BL	BL	BL	BL	BL	BL
05	Black plastic	BL	BL	BL	BL	BL	BL
06	Silvery metal	BL	BL	BL	BL	/	/
07	Silvery metal screw	BL	BL	BL	X	/	/
08	Silvery metal screw	BL	BL	BL	BL	/	/
09	Gold metal screw	BL	BL	BL	X	/	/
10	Silvery metal	BL	BL	BL	BL	/	/
11	Metal with gold plating	BL	BL	BL	BL	/	/
12	Silvery metal magnet	BL	BL	BL	BL	/	/
13	Beige plastic	BL	BL	BL	BL	BL	BL
14	Black plastic	BL	BL	BL	BL	BL	BL
15	Silvery metal	BL	BL	BL	BL	/	/
16	Metal crystal oscillator	BL	BL	BL	BL	/	/
17	IC	BL	BL	BL	BL	BL	BL
18	IC	BL	BL	BL	BL	BL	BL
19	Metal soldering tin	BL	BL	BL	BL	/	/
20	Metal crystal oscillator	BL	BL	BL	BL	/	/
21	LED	BL	BL	BL	BL	BL	BL
22	Chip crystal	BL	BL	BL	BL	BL	BL
23	Blue PCB	BL	BL	BL	BL	X	X
24	Black foam with glue	BL	BL	BL	BL	BL	BL
25	Silvery metal	BL	BL	BL	BL	/	/
26	Blue wire jacket	BL	BL	BL	BL	BL	BL
27	Metal soldering tin	BL	BL	BL	BL	/	/
28	White wire jacket	BL	BL	BL	BL	BL	BL



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No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
29	Silvery metal magnet	BL	BL	BL	BL	/	/
30	Metal with gold coating	BL	BL	BL	BL	/	/
31	White+transparent plastic	BL	BL	BL	BL	BL	BL
32	Silvery metal	BL	BL	BL	X	/	/
33	Copper metal	BL	BL	BL	BL	/	/
34	Green PCB	BL	BL	BL	BL	X	X
35	Metal crystal oscillator	BL	BL	BL	BL	/	/
36	IC	BL	BL	BL	BL	BL	BL
37	IC	BL	BL	BL	BL	BL	BL
38	Metal crystal oscillator	BL	BL	BL	BL	/	/
39	Yellow transparent tape	BL	BL	BL	BL	BL	BL
40	Black tape	BL	BL	BL	BL	BL	BL
41	IC	BL	BL	BL	BL	BL	BL
42	Silvery metal sheet	BL	BL	BL	BL	/	/
43	Black wire jacket	BL	BL	BL	BL	BL	BL
44	Green PCB	BL	BL	BL	BL	X	X
45	Red wire jacket	BL	BL	BL	BL	BL	BL
46	Silvery metal core	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
/ = Not Applicable

- (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
			07	09	32	
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



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

Test Items	CAS No.	Unit	MDL	Results		Limit
				01+02+04	05+23+34	
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
Diisopbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results		Limit
				17+36+44	43+45	
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
Diisopbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000



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3) The test results of PBBs & PBDEs

Test Items	Unit	MDL	Results			Limit
			23	34	44	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)						
Monobromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	50	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
- 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

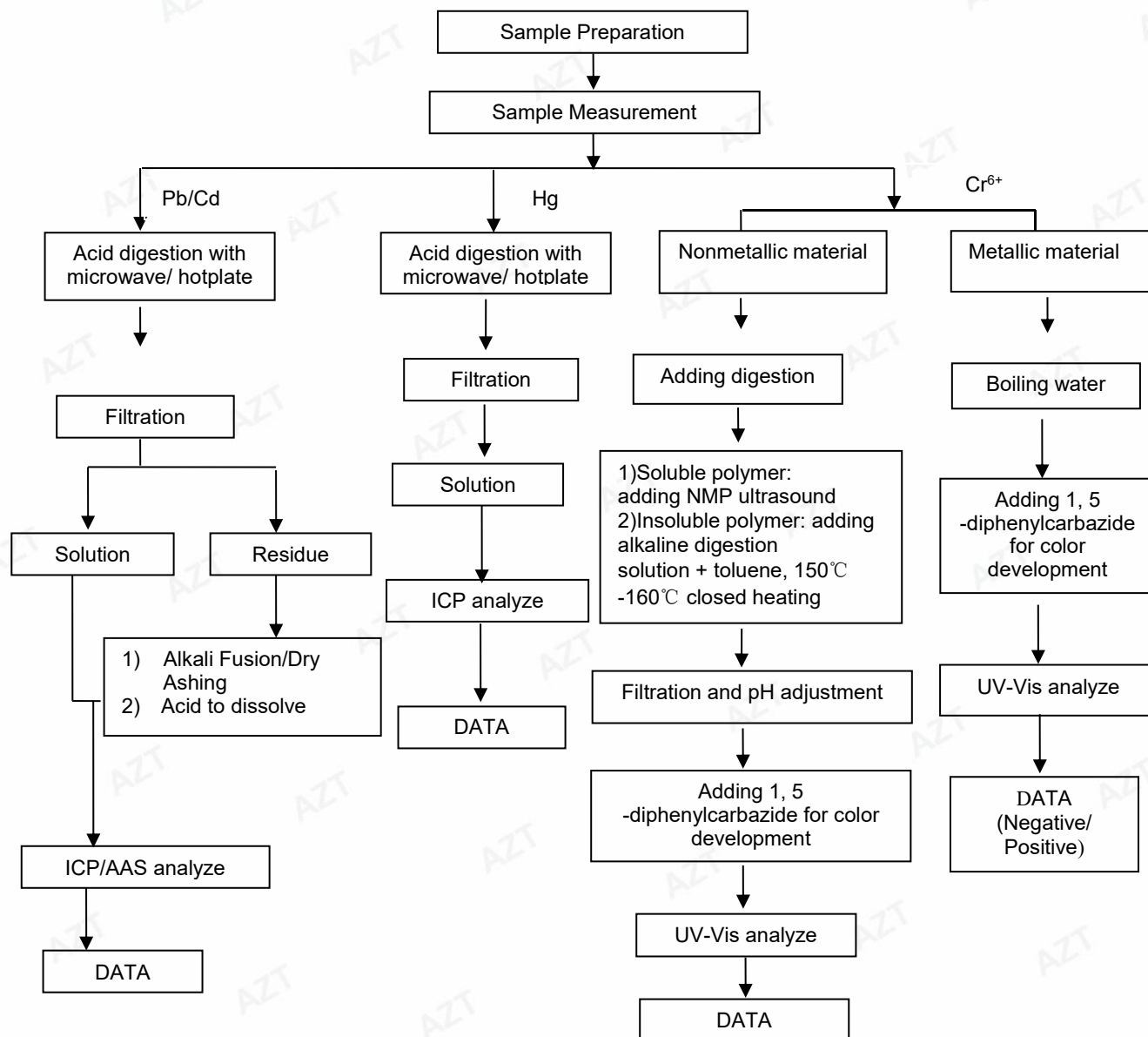


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Appendix

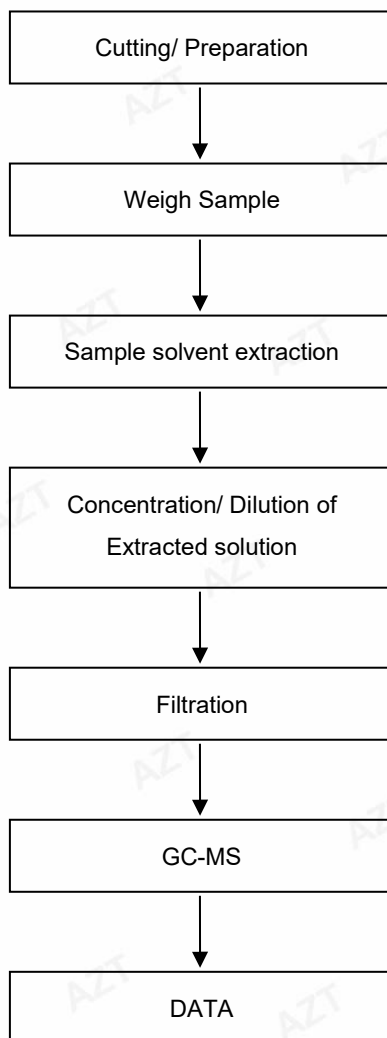
Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart





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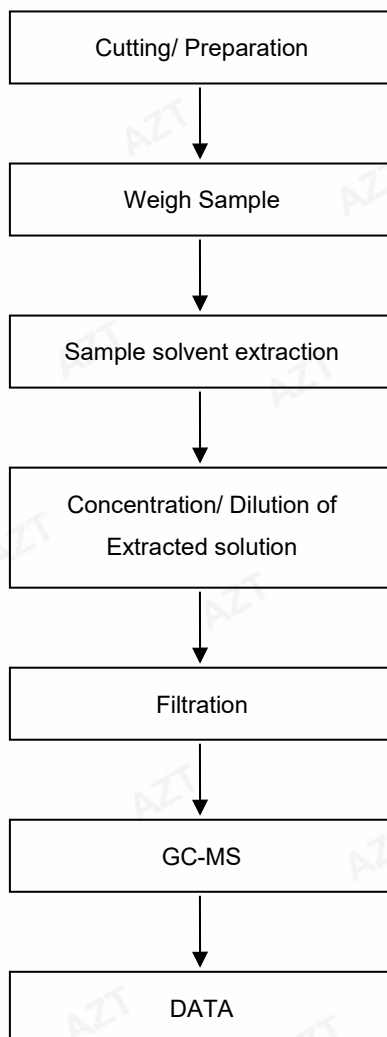
PBBs/PBDEs Testing Flow Chart





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Phthalates Testing Flow Chart





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The photo of the sample



AZT authenticate the photo on original report only

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.

*** End of Report ***



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