



TEST REPORT

Report No.:AZT24111209C-E0

Date of issue: November 18, 2024

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Applicant : EXPERT IT SRL
Address : Reghin str. MIHAI VITEAZU, 208 MUREȘ, 545300, ROMÂNIA
Manufacturer : EXPERT IT SRL
Address : 1806, Tower B, DaTang ShiDai, 2203 MeiLong Rd, Longhua, Shenzhen, 518109, China

Report on the submitted samples said to be:

Sample Name : Video conference camera
Tested model : QB-V4K8MP
Series models : QB-V4K8MP-2, QB-V4K8MP-3, QB-V4K16MP, QB-V4K16MP-1, QB-V4K16MP-2
Date of Sample Received : November 12, 2024
Testing Period : November 12, 2024 ~ November 18, 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.

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Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
01	Black plastic shell	
02	Black velcro	
03	Black wire jacket	
04	Black soft plastic	
05	Silvery metal	
06	Glass	
07	Copper metal	
08	Silvery metal with black plating	
09	Black soft plastic with glue	



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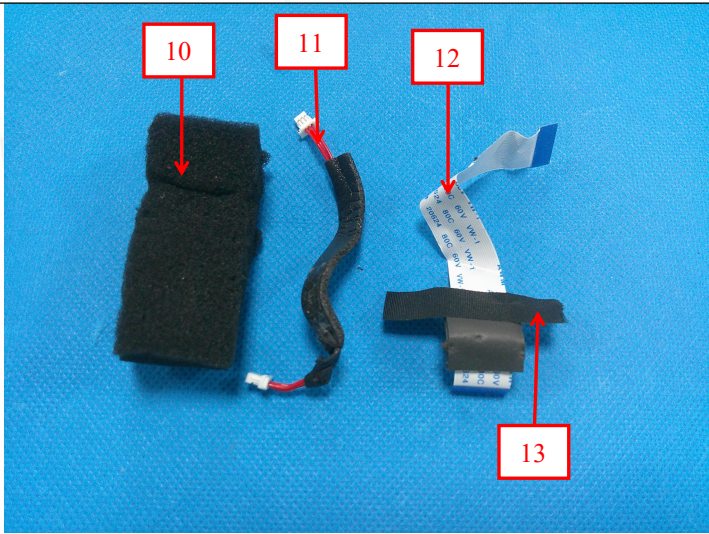
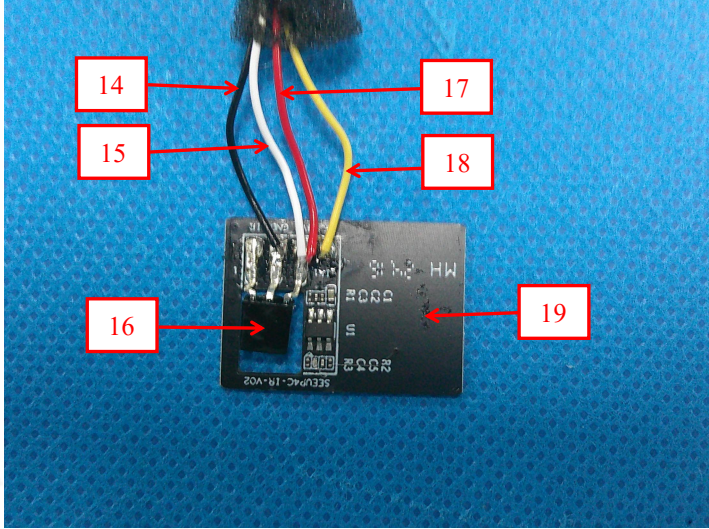
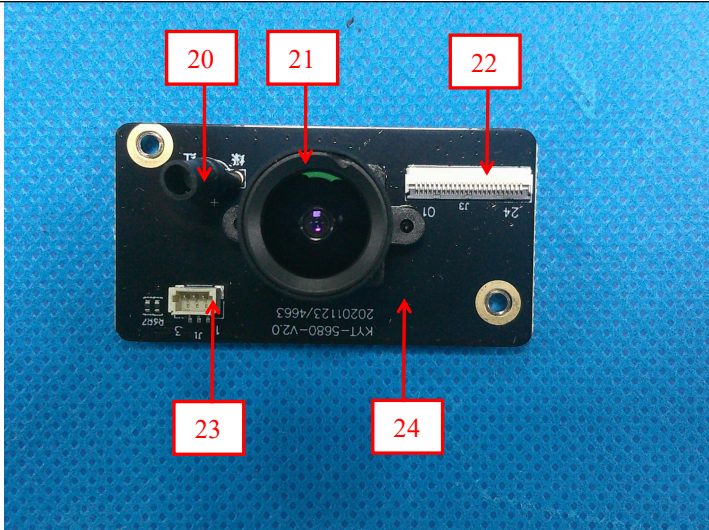


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No.	Tested Part(s)	The photo of the sample
10	Black foam	
11	Red wire jacket	
12	White FPC	
13	Black tape	
14	Black wire jacket	
15	White wire jacket	
16	Transistor	
17	Red wire jacket	
18	Yellow wire jacket	
19	Black PCB	
20	Black heat shrink tube	
21	Black plastic	
22	White plastic	
23	Beige plastic	
24	Black PCB	



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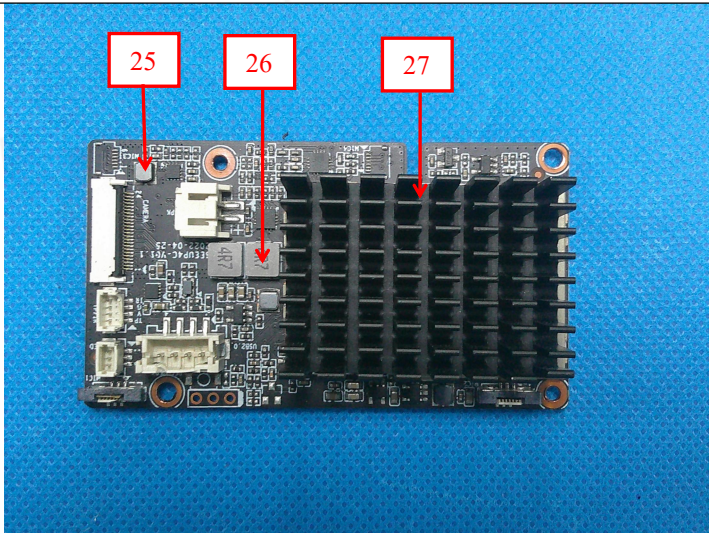
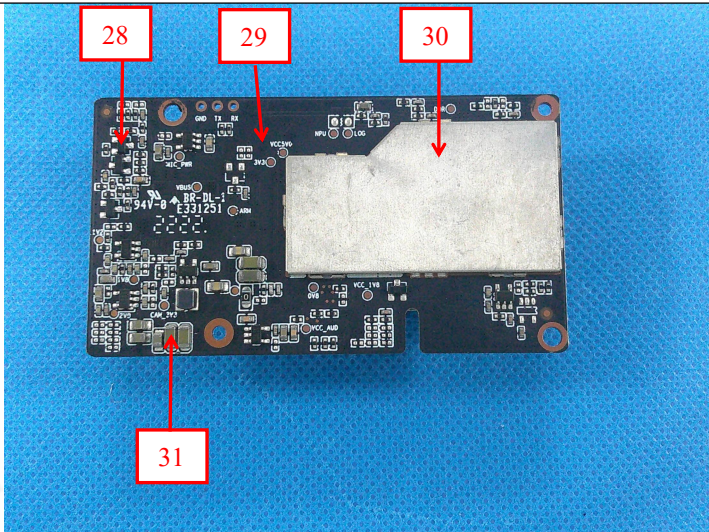
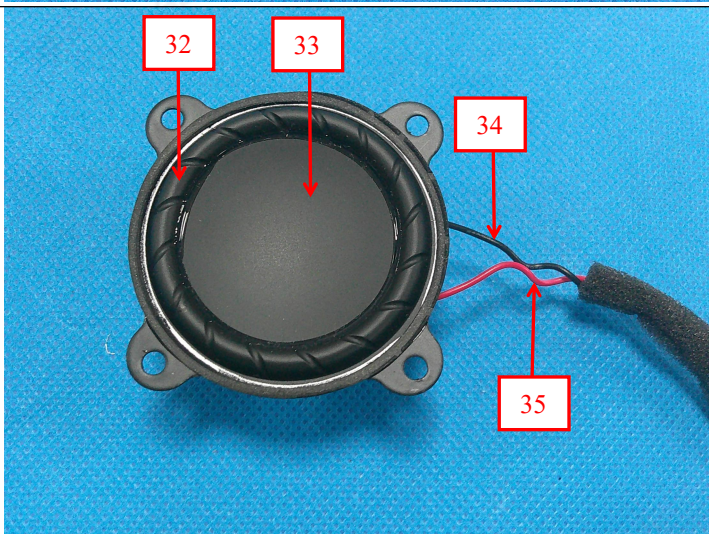


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No.	Tested Part(s)	The photo of the sample
25	Chip inductor	
26	Chip inductor	
27	Silvery metal with black plating	
28	Chip transistor	
29	Black PCB	
30	Silvery metal	
31	Chip capacitor	
32	Black foam	
33	Black plastic	
34	Black wire jacket	
35	Red wire jacket	



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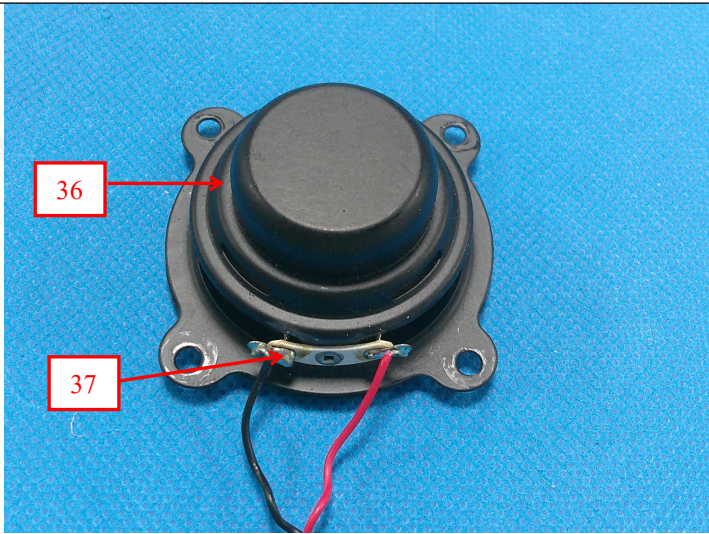
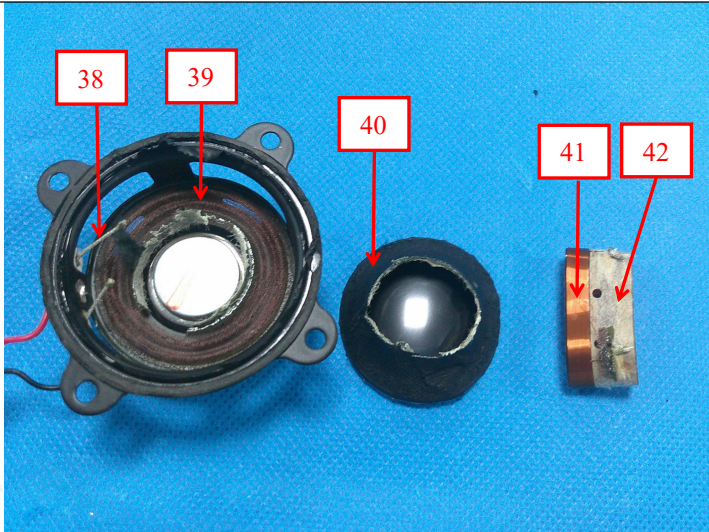
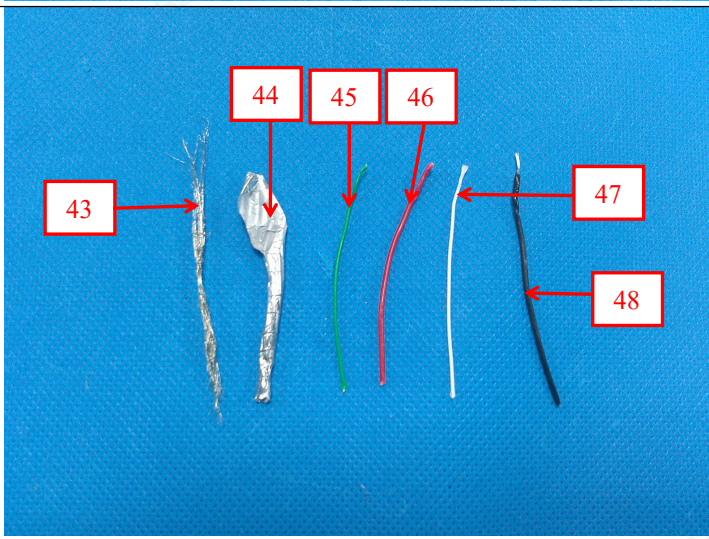


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No.	Tested Part(s)	The photo of the sample
36	Silvery metal with black plating	
37	Silvery soldering tin	
38	Silvery enamelled wire	
39	Brown wave	
40	Black paper	
41	Copper metal	
42	Brown paper	
43	Silvery metal wire core	
44	Silvery metal foil sheet	
45	Green wire jacket	
46	Red wire jacket	
47	White wire jacket	
48	Black wire jacket	



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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 plastic shell	BL	BL	BL	BL	BL	BL
02	Black velcro	BL	BL	BL	BL	BL	BL
03	Black wire jacket	BL	BL	BL	BL	BL	BL
04	Black soft plastic	BL	BL	BL	BL	BL	BL
05	Silvery metal	BL	BL	BL	BL	/	/
06	Glass	BL	BL	BL	BL	/	/
07	Copper metal	BL	OL	BL	BL	/	/
08	Silvery metal with black plating	BL	BL	BL	BL	/	/
09	Black soft plastic with glue	BL	BL	BL	BL	BL	BL
10	Black foam	BL	BL	BL	BL	BL	BL
11	Red wire jacket	BL	BL	BL	BL	BL	BL
12	White FPC	BL	BL	BL	BL	BL	BL
13	Black tape	BL	BL	BL	BL	X	X
14	Black wire jacket	BL	BL	BL	BL	BL	BL
15	White wire jacket	BL	BL	BL	BL	BL	BL
16	Transistor	BL	BL	BL	BL	X	X
17	Red wire jacket	BL	BL	BL	BL	BL	BL
18	Yellow wire jacket	BL	BL	BL	BL	BL	BL
19	Black PCB	BL	BL	BL	BL	X	X
20	Black heat shrink tube	BL	BL	BL	BL	BL	BL
21	Black plastic	BL	BL	BL	BL	BL	BL
22	White plastic	BL	BL	BL	BL	BL	BL
23	Beige plastic	BL	BL	BL	BL	BL	BL
24	Black PCB	BL	BL	BL	BL	X	X
25	Chip inductor	BL	BL	BL	BL	/	/
26	Chip inductor	BL	BL	BL	BL	/	/
27	Silvery metal with black plating	BL	BL	BL	BL	/	/
28	Chip transistor	BL	BL	BL	BL	BL	BL



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No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
29	Black PCB	BL	BL	BL	BL	X	X
30	Silvery metal	BL	BL	BL	BL	/	/
31	Chip capacitor	BL	BL	BL	BL	BL	BL
32	Black foam	BL	BL	BL	BL	BL	BL
33	Black plastic	BL	BL	BL	BL	BL	BL
34	Black wire jacket	BL	BL	BL	BL	BL	BL
35	Red wire jacket	BL	BL	BL	BL	BL	BL
36	Silvery metal with black plating	BL	BL	BL	BL	/	/
37	Silvery soldering tin	BL	BL	BL	BL	/	/
38	Silvery enamelled wire	BL	BL	BL	BL	/	/
39	Brown wave	BL	BL	BL	BL	BL	BL
40	Black paper	BL	BL	BL	BL	BL	BL
41	Copper metal	BL	BL	BL	BL	/	/
42	Brown paper	BL	BL	BL	BL	BL	BL
43	Silvery metal wire core	BL	BL	BL	BL	/	/
44	Silvery metal foil sheet	BL	BL	BL	BL	/	/
45	Green wire jacket	BL	BL	BL	BL	BL	BL
46	Red wire jacket	BL	BL	BL	BL	BL	BL
47	White wire jacket	BL	BL	BL	BL	BL	BL
48	Black wire jacket	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 (Screening result was over limit, thus further confirmation test was conducted.)
 - X=Inconclusive(Screening result was inconclusive, thus further confirmation test was conducted.)
 - /=Not Applicable
 - mg/kg = milligram per kilogram = ppm
- (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 Lead (Pb)

Test Item	Unit	MDL	Results	Limit
			07# ¹	
Lead (Pb)	mg/kg	10	29329	1000

Note:

- MDL = Method Detection Limit
- mg/kg = milligram per kilogram = ppm
- N.D.=Not Detected (<MDL or LOQ)

#1 The tested part(s) <07> 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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2) The test results of DBP, BBP, DEHP & DIBP

Test Items	CAS No.	Unit	MDL	Results		Limit
				01+19+22	03+11+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
Diisopbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results		Limit
				04+09+20	15+17+18	
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
				23+24+29	34+35+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

Test Items	CAS No.	Unit	MDL	Results	Limit
				46+47+48	
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
Diisopbutyl 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
			13	16	19	24	29	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	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.	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Remark:

- mg/kg = milligram per kilogram = 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

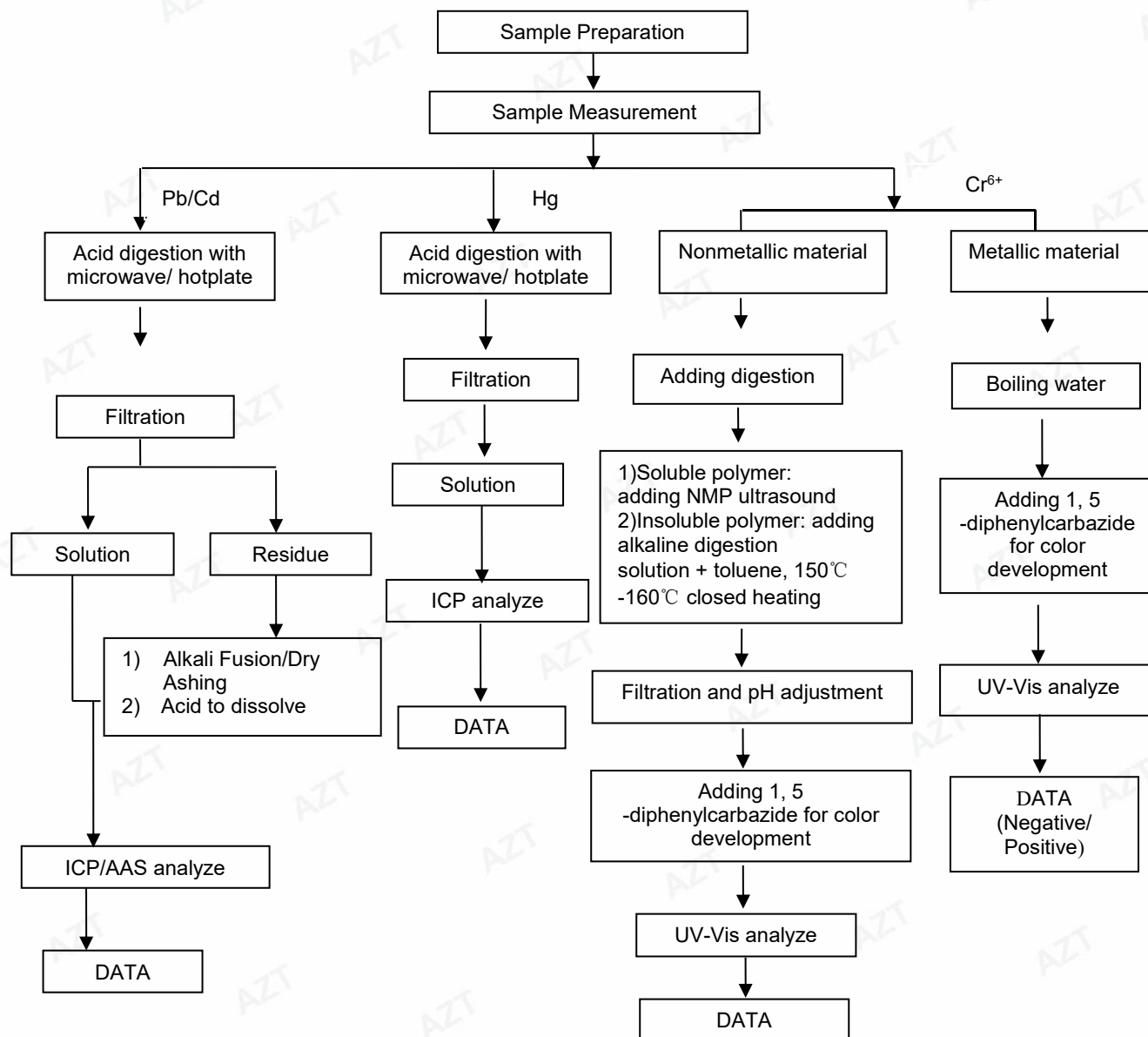


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Appendix

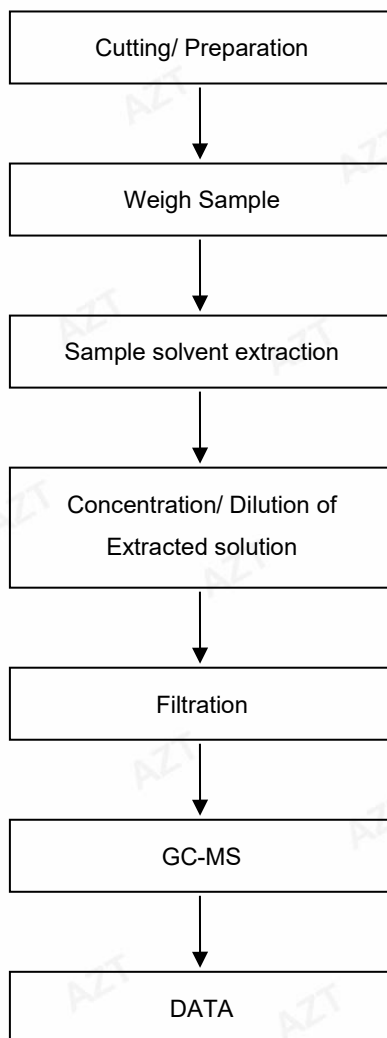
Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart





TEST REPORT

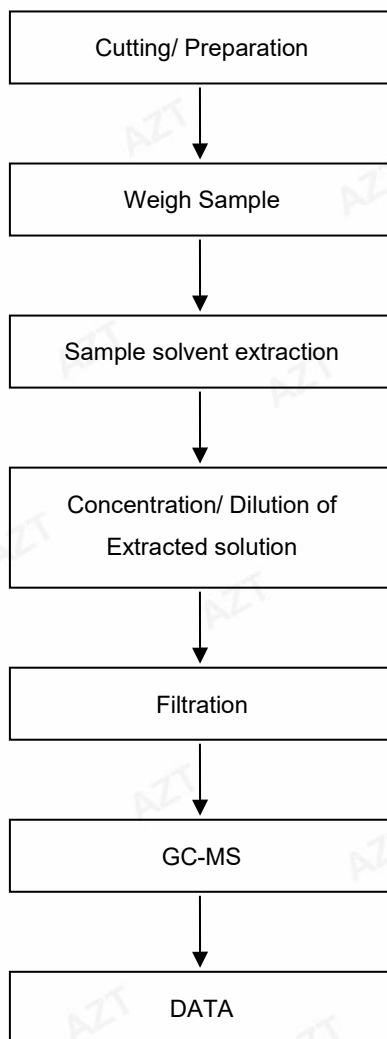
PBBs/PBDEs Testing Flow Chart





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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.
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 ***



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