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TEST REPORT

Applicant: Flashbay Electronics

Address: Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian

Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample name: USB Flash Drives

Model: Wafer/WA

Manufacturer & Factory: Flashbay Electronics

Address: Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian

Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

Pass

Sample No.: S241022030028

Sample Received Date: 2024-10-24

Testing Period: 2024-10-24~ 2024-11-13

Test Requirement: Conclusion

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)contents in the submitted sample(s) in accordance with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Test Result(s): Please refer to the following page(s);

Test Method: Please refer to the following page(s);

Compiled by:

Adalyn , Shen

Reviewed by:

Date: 2024-11-13

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Sample Description:

No.	Sample name	Description
1		Transparent soft plastic film
2	USB Flash Drives	White plastic label with lettering (with glue)
3		Transparent plastic shell
4		Cupreous metal
5		Silver metal rod
6		Black PCB

Test Result(s):

Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs)

Diblietiyis	(PDDS), PC	nybronimateu t	Dipnenyi Ethers(PBI	DES)	4	
Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion	
	Pb		BL	1	7	
	Cd 🔊		BL	1	-	
	Hg		BL	/		
1	Cr	Cr(VI)	BL	/	Pass	
	D.,	PBBs	BL	/		
	Br	PBDEs		/		
		Pb	BL	/	×	
		Cd	BL	_® /	Pass	
2		Hg	BL	Kill I		
		Cr(VI)	BL	1	Fass	
		PBBs	- BL	1		
	Di	PBDEs		1		
	Pb		BL	1		
	Cd		BL	1		
3		Hg	BL	1	Pass	
	Cr Cr(VI) Br PBDE	Cr(VI)	BL	1	1 033	
		PBBs	- BL	<u> </u>	A.C.	
		PBDEs		A Min 1		
		Pb	BL	1		
		Cd	BL	/	-	
4		Hg	BL	/	Pass	
	Cr	Cr(VI)	BL	/	-	
	Br —	PBBs	/			
		PBDEs		/	200	

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		Pb	BL	/	
>		Cd	BL	/	
5		Hg	BL	/	Door
3	Cr	Cr(VI)	IN	N.D.	Pass
	Br	PBBs	- /	/	٨٨
	ы	PBDEs		, I	A.E.
		Pb	BL	A Think	
		Cd	BL	1	
6	Hg Latin		BL	/	Pass
	Cr Cr(VI) Br PBDEs	BL	/	r ass	
		IN	N.D.		
		PBDEs	IIN	N.D.	

Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)

Test Items	Result(mg/kg)				
restiteris	1	2	3	6	
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	
Conclusion	Pass	Pass	Pass	Pass A	

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Note: 1.N.D. = Not Detected (<MDL)

MDL = Method Detection Limit 1mg/kg = 1ppm =0.0001%

/=Not Regulated or Not Applicable

2. BL = Below the XRF screening limit

IN = Further chemical test will be conducted when the screening result inconclusive

OL = Further chemical test will be conducted while the result is above the screening limit.

3. For metal samples, the sample is negative for Cr(VI), if the Cr(VI) concentration is less than

0.10 µg/cm², the coating is considered a non- Cr(VI) based coating;

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 µg/cm²,

The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the

0.10 μg/cm² and 0.13 μg/cm², unavoidable coating variations may influence the determination.

Because the storage condition and production date of the sample are not known, the test

results of the sample of hexavalent chromium can only represent the state of hexavalent

chromium in the samples tested.

Remark: 1. When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br

Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to

screen Chromium exclusively.

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Test Method:

1. With reference to IEC 62321-1: 2013 Ed.1.0, IEC 62321-2:2021 Ed.2.0, IEC 62321-3-1:2013 Ed.1.0. XRF screening limits in mg/kg for regulated elements in various matrices.

Clamant	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)				
Element	Polymers	Metals	Composite material		
Pb	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>		
PD	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL		
Cd	BL≤(70-3σ) <x <<="" td=""><td>BL≤(70-3σ)<x <<="" td=""><td>LOD <x<(150+3σ)< td=""></x<(150+3σ)<></td></x></td></x>	BL≤(70-3σ) <x <<="" td=""><td>LOD <x<(150+3σ)< td=""></x<(150+3σ)<></td></x>	LOD <x<(150+3σ)< td=""></x<(150+3σ)<>		
Cu	(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL		
⊔ α	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>		
Hg	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL		
Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X		
Br	BL≤(300-3σ)< X	/	BL≤(250-3σ)< X		

Note: BL= Below the XRF screening limit

OL=Over the XRF screening limit

X=The symbol"X"marks the region where further investigation is necessary.

 3σ =The reproducibility of analytical instruments

LOD= Detection limit

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2. Chemical Test

2	Test item	Test method	Test instrument	MDL	Limit△	
	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg	
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg	
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm ²	1000 mg/kg	
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0	UV-VIS	8 mg/kg		
	Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
	Polybrominated, Diphenyl Ethers(PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
	Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
	Benzyl butyl Phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
	Dibutyl Phthalate (DBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
	Diisobutyl Phthalate (DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
	The limit is guested from BoHS Directive (ELI) 2015/962 amonding Appear I to Directive 2011/95/ELI					

△The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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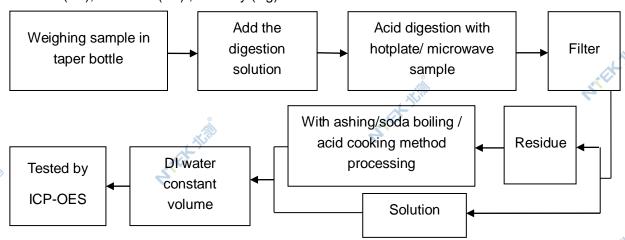
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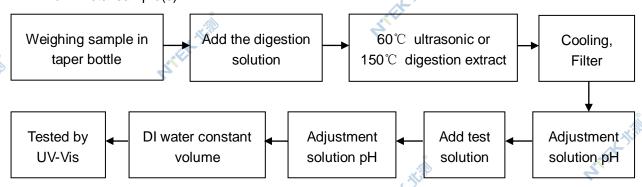
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Test Flow:

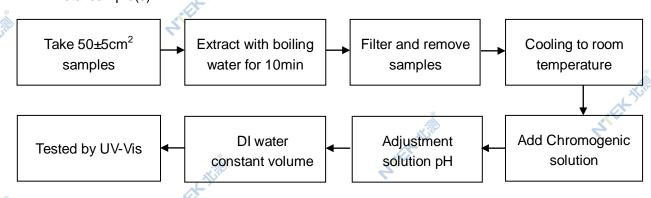
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



- 2. Hexavalent Chromium(Cr(VI))
- 2.1 Non- metal sample(s)



2.2 Metal sample(s)

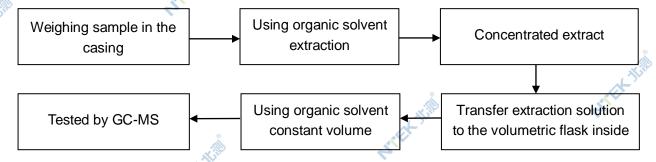




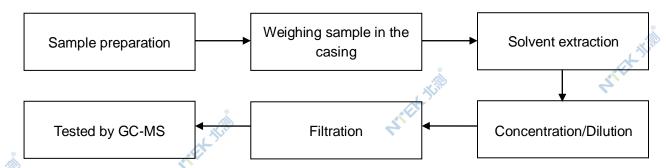
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3. PBBs/ PBDEs



4. Phthalates





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Sample photo(s):



Fig.1 (Finished photo)

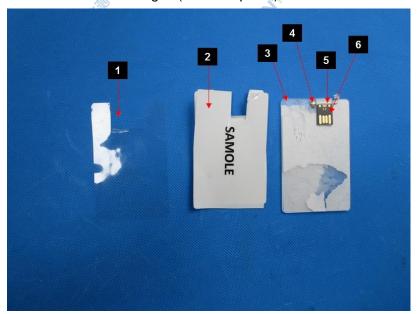


Fig.2

****End of Report****

The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full.

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