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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: Key/KS

Manufacturer & Factory: Flashbay Electronics

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

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

Sample No.: S241022030014

Sample Received Date: 2024-10-24

Testing Period: 2024-10-24~ 2024-11-08

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.

Pass

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

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

Compiled by:	Nina.Car	Reviewed by:	Luetta Mo
Approved by:	May Li	Date:	2025-01-06



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Sample Description:

No.	Sample name	Description	
1		Silver metal shell of shell	
2		White double-sided adhesive of shell	
3	USB Flash Drives	Black double-sided adhesive of shell	با
4		Black plastic of shell	140
5		Black PCB of USB interface	

Test Result(s):

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

Bipnenyis	(PBBS), PC	olyprominated	Dipnenyi Etners(Pi	BDES)	
Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion
		Pb	BL	Kill /	H.
		Cd	BL	-Et /	
1		Hg 💥	BL	4	Pass
I	Cr	Cr(VI)	IN	N.D.	Pass
	Br	PBBs	,	/	
	DI	PBDEs	/	/	
		Pb	BL	/	
		Cd	BL	/	ر ا
2		Hg	BL	<u> </u>	Pass
2	Cr	Cr(VI)	BL	A Mills	Pass
	Br	PBBs	BL	1	
		PBDEs		1	
		Pb	BL	/	
	Cd		BL	/	
3		Hg	BL	1	Pass
3	Cr	Cr(VI)	BL	/	Fass
	Br	PBBs	BL	/	_ ~
	DI	PBDEs		<i>J</i> 1	Zi'V
4		Pb	BL	A TOWN	
	Cd		BL	3 1	
		Hg	BL	1	Pass
	Cr	Cr(VI)	BL	/	1 000
	Br	PBBs	BL	/	
	Br	PBDEs	BL	/	

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Complaint Tel: +86-0755-23218370 | Complaint E-mail: complaint@ntek.org.cn



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		Pb	BL	/			
>>	_	Cd		Cd Bl	BL	/	
		Hg		BL	/	Pass	
5	Cr	Cr(VI)	BL	/			
		Dr. PE	PBBs	INI	N.D.	لم	
	Br PBDEs	IN	N.D.	A.C.			

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

Test Items	Result(mg/kg)			
rest items	2+3	4	5	
Bis-(2-ethylhexyl) Phthalate (DEHP)	96	N.D.	N.D.	
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.	
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	
Conclusion	Pass	Pass	Pass	

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 $\mu g/cm^2$, 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 $\mu g/cm^2$ and 0.13 $\mu g/cm^2$, 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.

Element	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)				
Element	Polymers	Metals	Composite material		
Dh	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<>		
Pb	<(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		
Hg	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<>		
	<(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

		· · · · · · · · · · · · · · · · · · ·			
	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	(1) (1) (1)	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
ı	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
AThe limit is guested from DoUS Directive (ELL) 2015/962 amending Appear II to Di				ni II da Dinaadii ca	2044/05/51

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

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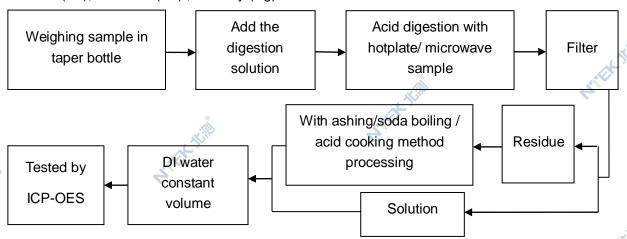
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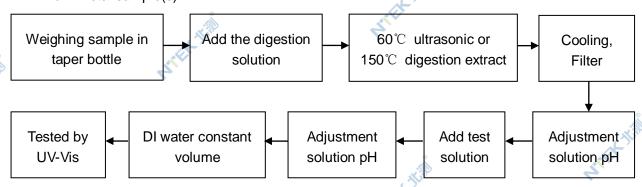
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Test Flow:

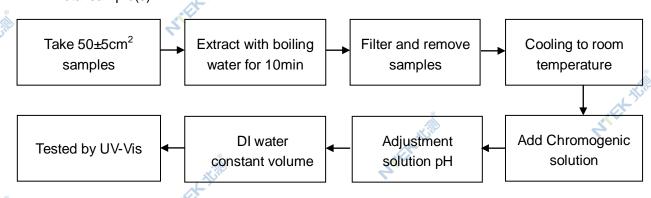
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



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



2.2 Metal sample(s)

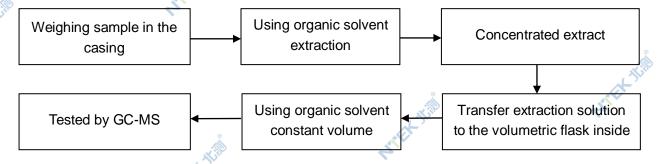




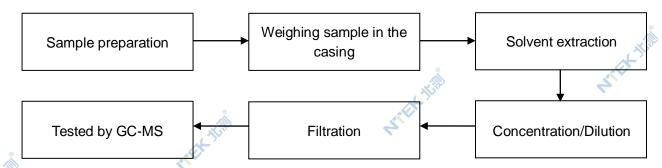
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3. PBBs/ PBDEs



4. Phthalates





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Sample photo(s):



Fig.1 Finished photo



Fig.2

****End of Report****

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