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## **TEST REPORT**

**Applicant:** Address:

,STEK I

Flashbay Electronics 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:	Memo/ME
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.: S241022030016 2024-10-24 Sample Received Date: **Testing Period:** 2024-10-24~ 2024-11-08

## **Test Requirement:**

Conclusion

Pass

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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);

Nina.Cor May Li

Reviewed by:

Luetta Mo

Compiled by:

Approved by:

Date:









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### Sample Description:

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	Sample name	Description	
1		Silver metal shell	
2	USB Flash Drives	Black plastic shell	
3		Silver metal spring of shell	
4		Silver metal wire of shell	
5		Silver metal shell of USB interface	~
6		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)

	Part No.	Те	st Items	XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion
			Pb	BL		
	-		Cd	BL		-
©	-		Hg	BL	/	
°	1	Cr	Cr(VI)	BL	/	Pass
	-	D#	PBBs	/	/	
		Br	PBDEs	/	/	
			Pb	BL	/	
			Cd	BL	<u> </u>	
	2		Hg	BL	June 1	Pass
	2	Cr	Cr(VI)	BL		F 855
a		Br	PBBs	BL	1	-
° <b>///</b> -			PBDEs		/	
	-		Pb	BL	/	-
	-		Cd	BL	/	-
	3	<u> </u>	Hg	BL	/	Pass
		Cr	Cr(VI) PBBs	BL		-
		Br	PBDEs	- /		
			Pb	BL		
	_		Cd	BL	/	-
	_		Hg	BL	/	
-	4	Cr	Cr(VI)	BL	/	Pass
°	-	Br	PBBs	/	/	]
		DI	PBDEs	1	/	





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			1 2			*		
writek trill	5		Pb	BL	/			
		Cd		BL	/			
		F Hg		BL	/	Pass		
		Cr	Cr(VI)	BL	/	rass		
		D,	PBBs	S DI	/	A Side		
		Br	PBDEs	BL	<u> </u>			
STEK TRI	6		Pb	BL	A Min /			
		6		Cd 👗	BL	/		
			6		Hg	BL	/	Pass
			Cr	Cr(VI)	BL	/	r d55	
		D	PBBs	IN	N.D.			
		Br	PBDEs	IIN	N.D.			
						Å		

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

Test Items	Result(	(mg/kg)
restilens	2	6
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.
Conclusion	Pass	Pass 💉
	× 34	1

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/cm<sup>2</sup>, 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.

		<u> </u>				
4.	Element	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)				
		Polymers	Metals	Composite material		
	Pb	BL≤(700-3σ) <Χ	BL≤(700-3σ) <x< th=""><th>BL≤(500-3σ)&lt;Χ</th></x<>	BL≤(500-3σ)<Χ		
		<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL		
ATTER TIM	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)<>		
		(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL		
	Hg	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ		
		<(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		
				RATER.		

Note:

BL= Below the XRF screening limit

OL=Over the XRF screening limit

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

 $3\sigma$  =The reproducibility of analytical instruments



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LOD= Detection limit



2. Chemical Test

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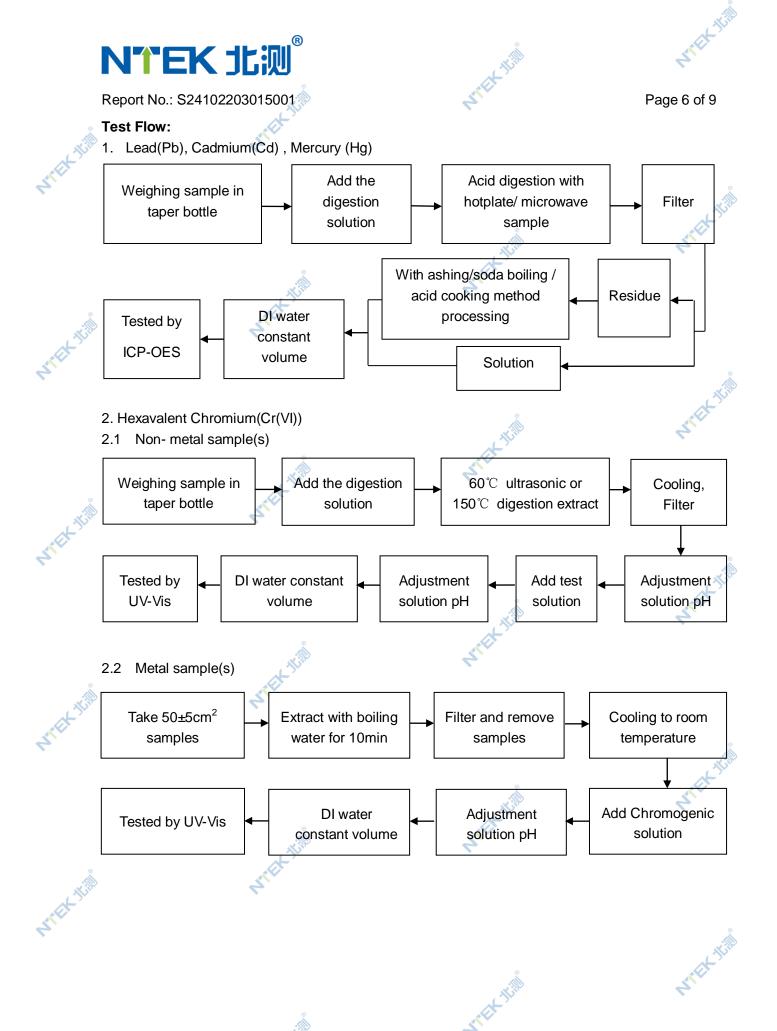
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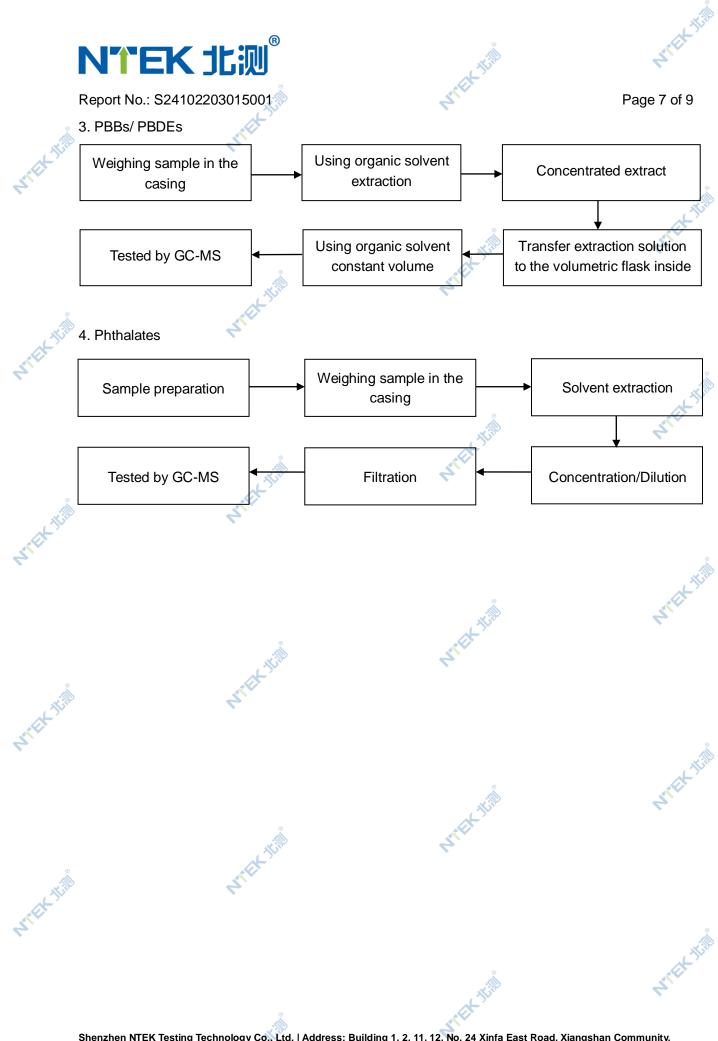
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TEX TIN	Test item	Test method	Test instrument	MDL	Limit△	
4.	Lead (Pb)	ead (Pb) IEC 62321-5:2013 Ed.1.0		2 mg/kg	1000 mg/kg	
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg	
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm <sup>2</sup>	1000 mg/kg	
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg	
ANT THE THIN	Polybrominated Biphenyls(PBBs)	EC 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	
WIEKT	Dibutyl Phthalate (DBP)	EC 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	
	<sup>A</sup> The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.					
			- Till		ATTE:	





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NTEX TE Sample photo(s):





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WTEX TIN

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NTEK Tim

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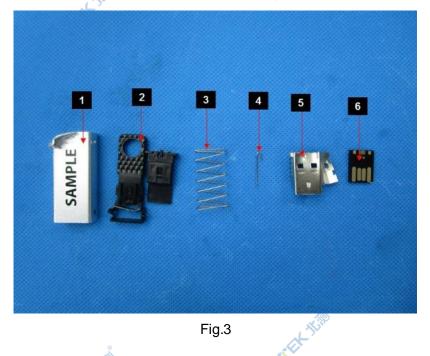
ATEK III

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\*\*\*\*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.

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