



Page 1 of 9

## **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:	Pod/PO
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.: S241022030019 Sample Received Date: 2024-10-24 **Testing Period:** 2024-10-24~ 2024-11-12

## **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

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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:

2024-11-12







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#### Sample Description:

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Hill	No.	Sample name	Description
STEK The	1		White plastic shell
2.	2		Silver metal ring of shell
	3		Silver metal clasp of shell
	4	USB Flash Drives	Transparent plastic shell
	5		Black plastic of USB interface
	6		Silver metal shell of USB interface
	7	L Yim	Black PCB of USB interface
Hi	>	ATTE:	
TEF	Test Re	esult(s):	

## Test Result(s):

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

		(,,	p	,		
	Part No.	Test Items	XRF Screening	Chemical Test	Conclusion	
	Fall NO.	i est items	Result(mg/kg)	Result(mg/kg)	COnclusion	
		Pb , 🔊	BL 🔮	/		
		Cd	BL	/		
, j	1	Hg	BL	/	Deee	
NTEX TIM	I	Cr Cr(VI)	BL	/	Pass	
SIL		PBBs	Ы	/	8	
		Br PBDEs	BL	/	A Cill	
		Pb	OL	20510 <sup>#1</sup>		
		Cd	IN	21	4	
	2	0	Hg	BL		Pass
۲		Cr Cr(VI)	BL 🗧		P 855	
			Br	/	/	
Hill		PBDEs	1	/		
ANTEX TIM		Pb	BL	/		
4.		Cd	BL	/		
	3	Hg	BL	/	Pass	
	5	Cr Cr(VI)	BL	<u> </u>	F doo	
		Br PBBs	/	The I	4	
		PBDEs		1		
		1 Store				
		JTE .				
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	NTE	EK J	L测®		MTEX Jui	WIEK
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8			Pb	BL	/	
Hill			Cd	BL	/	
with Will	4		Hg	BL	/	Pass
4.	4	Cr	Cr(VI)	BL	/	Pass
		Br	PBBs PBDEs	BL		- TEK Sin
			Pb	BL	A Kine	4
			Cd 👗	BL		-
	F		Hg	BL	1	Data
	5	Cr	Cr(VI)	BL	/	Pass
WTEX HI		D.,	PBBs	BL	/	
STE		Br	PBDEs	BL	/	
	6		Pb	BL	/	J.
			Cd	BL	<u>ا</u>	
			Hg	BL		Pass
	0	Cr	Cr(VI)	BL		F d55
		Br	PBBs	1		
NTEK Til		PBDE	PBDEs		/	
			Pb	BL	/	
	7		Cd	BL	/	
			Hg	BL	/	Pass 👗
		Cr	Cr(VI)	BL	/	
		Br	PBBs	IN	N.D.	
			PBDEs		N.D.	4

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

J'IEL '	Test Items	Result(mg/kg)	
4	Test Items	1+4+5	7
	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
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## **NTEK 北测**<sup>®</sup>

Report No.: S24102203018001



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Note:

/=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 <sup>2</sup> ,
The sample coating is considered to contain Cr(VI);

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WTEX III

1.N.D. = Not Detected (<MDL) MDL = Method Detection Limit 1mg/kg = 1ppm =0.0001%

The result is considered to be inconclusive, the Cr(VI) concentration is between the 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup>, 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.



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.

2. According to the client's statement , the material of the sample(s) comply with RoHS directive 2011/65/EU Annex III Exemption, Corresponding exemption clause:
#1 6(c) Lead is exempted as copper alloy containing up to 4% lead by weight .

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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.

		3 3 3 3		-	
4	Floment	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)			
	Element	Polymers	Metals	Composite material	
	Pb	BL≤(700-3σ) <Χ	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)&lt;Χ</td></x<>	BL≤(500-3σ)<Χ	
		<(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)<>	
WIELT		(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 🔬 🔊	
			XI	ANIEL.	

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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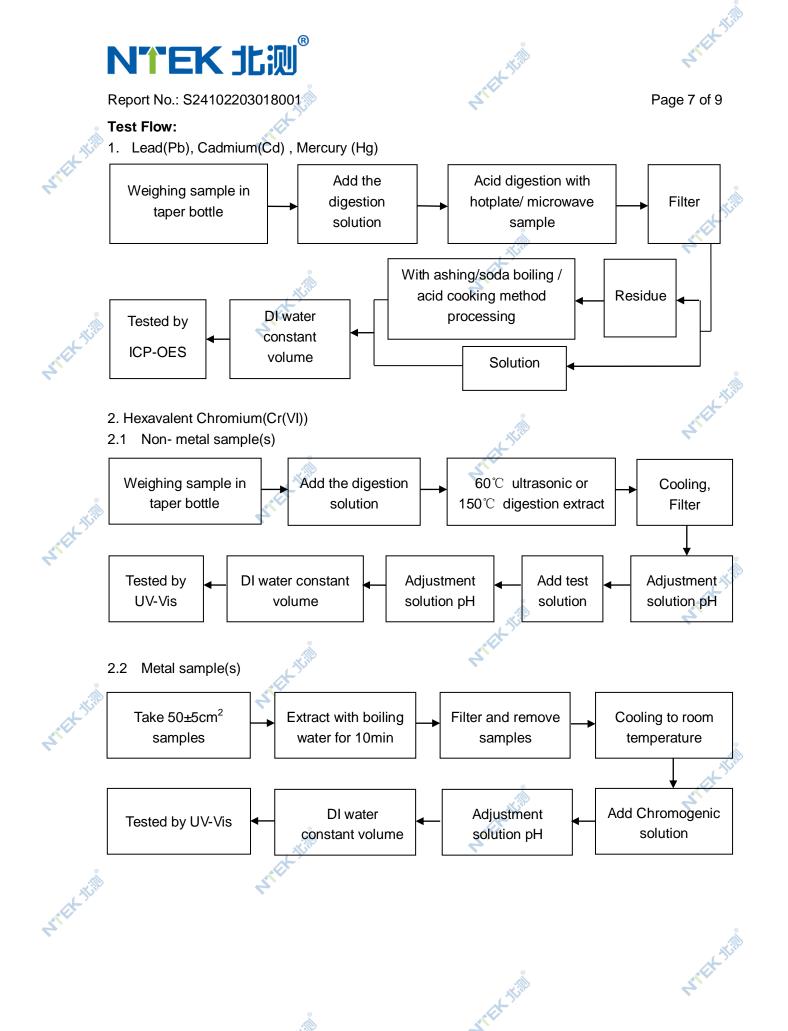
## Page 6 of 9

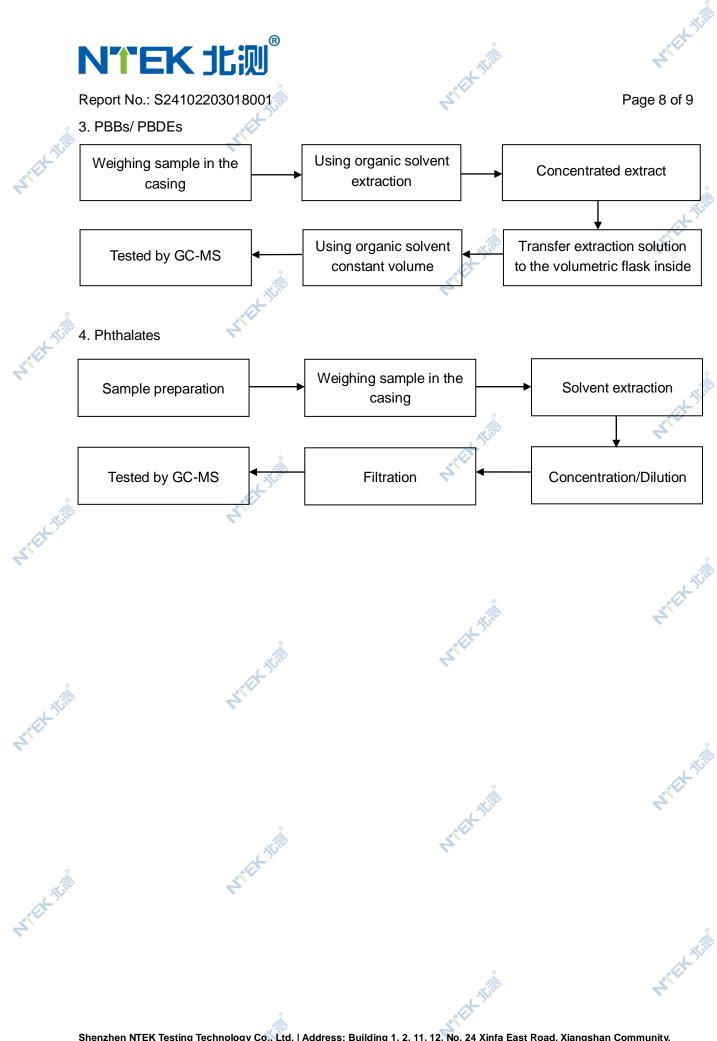
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TEX Trill	Test item Test method		Test instrument	MDL	Limit△
4.	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm <sup>2</sup>	1000 mg/kg
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg
	Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
WIELT	Polybrominated, Diphenyl IEC 62321-6:2015 Ed.1.0 Ethers(PBDEs)		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
TEX IS	Dibutyl Phthalate (DBP)	EC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
AN'ER!	Diisobutyl Phthalate (DIBP)		GC-MS	30 mg/kg	1000 mg/kg
	<sup>4</sup> The limit is quoted from RoHS Directive (EU) 201			ex II to Directive	2011/65/EU.
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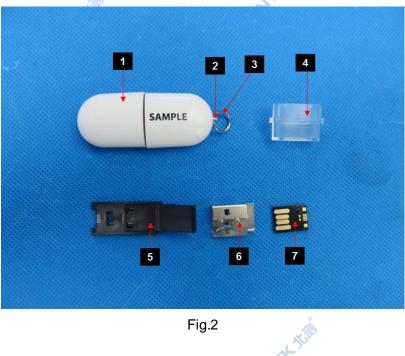
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Fig.1 (Finished photo)



## \*\*\*\*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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