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TEST REPORT

Applicant: Address: 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:	Tree Duo/TD
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.:
 S241022030023

 Sample Received Date:
 2024-10-24

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



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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);

Adalyn, Shen Moy Li

Reviewed by:

Luetta Mo

Compiled by:

Approved by:

Date:

2025-01-06



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Sample Description:

Hill	No.	Sample name	Description	
ALL A	1		Yellow wood of shell	
	2		Silver metal magnet of shell	
	3		Transparent colloid of shell	
	4		Silver metal ring of shell	HE.
	5		Silver metal head of shell	4
	6		White cotton thread of shell	
	7	A Tim	Silver metal clasp of shell	
	8		Silver metal shell of USB interface	
AL Han	9	USB Flash Drives	Black plastic of USB interface	
	10		Silver metal pin of USB interface	
	11		Blue PCB of mainboard PCB	
	12		SMD chip of mainboard PCB	X
	13		Silver metal shell of type-c interface	-TIV
	14		Gray plastic of type-c interface	
	15		Silver metal insert of type-c interface	
	16	A No	Silver metal pin of type-c interface	

Test Result(s):

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

•	• •	•		d Diphenyl Ethers(P	omium (Cr(VI)), Polyn BDEs)				
	Part No.	Tes	t Items	XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion			
			Pb 👗	BL	1				
	-		Cd	BL	/				
STEK Him	1		Hg	BL	/	Deee			
1 Him	1	Cr	Cr(VI)	BL	/	Pass			
ester .		PBBs	BL	/					
		Br	PBDEs	DL	/				
	2		Pb	BL	/	A			
			Cd	BL	<u></u> 1				
		Hg		BL	at ~ /	– Pass			
		Z	Z	2	Cr	Cr(VI)	BL		F 855
8		Br	PBBs	1	/	-			
ATEK Him		Ы	PBDEs	1	/				
.et "	-		Pb	BL	/	_			
211	-		Cd	BL	/	_			
	3	3	Hg	BL	/	Pass 📈			
		Cr	Cr(VI)	BL	◎ /				
		Br	PBBs	BL	ALIP 1	4			
			PBDEs						



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	NTE	ドに	。	ATTER THE	ATTEK A
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ANTER TO		Pb Cd	BL BL		
J'IL.	4	Hg	BL	/	Pass
		Cr Cr(V Br PBB PBDE	s /		- ret Sil
		Pb	BL	1 Jun /	~
		Cd	BL		
	5	Hg 🔎	BL	/	Pass
	5	Cr Cr(V	l) BL	/	F d S S
WTER HIS		Br PBB	/	/	
		Pb	BL	/	, Alexandre and Alexandre a
		Cd	BL	/	
	6	Hg	BL	/	Pass
	0	Cr Cr(V	l) BL		F d 55
		Br PBB	– BI		
		Pb	BL		
A Han		Cd	BL		
N'EL H		Hg	BL		
	7	Cr Cr(V			- Pass
		PRR		, 	
		Br PBDE	/	Kill I	
		Pb	s BL		
		Cd	BL		
©	0	Hg	BL	/	Dees
Will?	8	Cr Cr(V	l) BL	/	Pass
N'EL HIN		Br PBB	/	/	
		Pb	BL	/	- Kill
		Cd	BL		
		Hg	BL		
	9	Cr Cr(V			Pass
NTEK Tim		Br PBB	s BL		
at		Pb	BL	/	
A.C.		Cd	BL	/	
	10	Hg	BL	/	- Pass
	-	Cr Cr(V			
		Br PBB			-
		PBDE	<u>-s</u>		



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ANTER HIM			Pb Cd	BL BL		_	
at se			Hg	BL	/	_	
21	11	Cr	Cr(VI)	BL		Pass	
		Br	PBBs PBDEs	IN	N.D.		
_			Pb	BL			
			Cd 👗	BL			
			Hg	BL			
() ()	12	Cr	Cr(VI)	BL	/	Pass	
Hill		01	PBBs	DL	/	_	
ATTEK TIN		Br	PBDEs	BL		_	
			Pb	BL	/		
			Cd	BL	/	- Dooo Arrith	
	13		Hg	BL		– Pass	
	13	Cr	Cr(VI)	IN	N.D.	F 455	
	Dr	Br	PBBs	/			
(0)		Br	PBDEs	/	/		
ATTEK TIN			Pb	BL	/		
at se				Cd	BL	/	
S.			Hg	BL	/	Dana	
	14	Cr	Cr(VI)	BL	/	– Pass	
		_	PBBs		· /		
		Br	PBDEs	BL	Xill I	4	
			Pb	BL			
			Cd vin	BL			
®	. –		Hg	BL	/	_	
Kill	15	Cr	Cr(VI)	IN	N.D.	Pass	
ATER HI			PBBs		/		
<u> </u>		Br	PBDEs	/	/		
_			Pb	BL	/		
			Cd	BL	<u> </u>		
			Hg	BL			
	16	Cr	Cr(VI)	BL		– Pass	
			PBBs		/		
ATEK Hill		Br	PBDEs	/	/		
Hille			,		,		



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STER.	Test Items	Result(mg/kg)				
4.	Test tierns	3	6	9+14	11	
	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	
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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;

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ATEK Tim

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 μ g/cm², The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the $0.10 \ \mu g/cm^2$ 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:

k: 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.

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	t of IEC 62321-3-1:2013 Ed.1.0	(mg/kg)				
	Polymers	Metals	Composite material				
	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ) <Χ</td><td>BL≤(500-3σ)<Χ</td></x<>	BL≤(700-3σ) <Χ	BL≤(500-3σ)<Χ				
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)<>				
	(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)< Χ	BL≤(500-3σ)< X				
Br	BL≤(300-3σ)< X	1	BL≤(250-3σ)< X				

Note:

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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





2. Chemical Test

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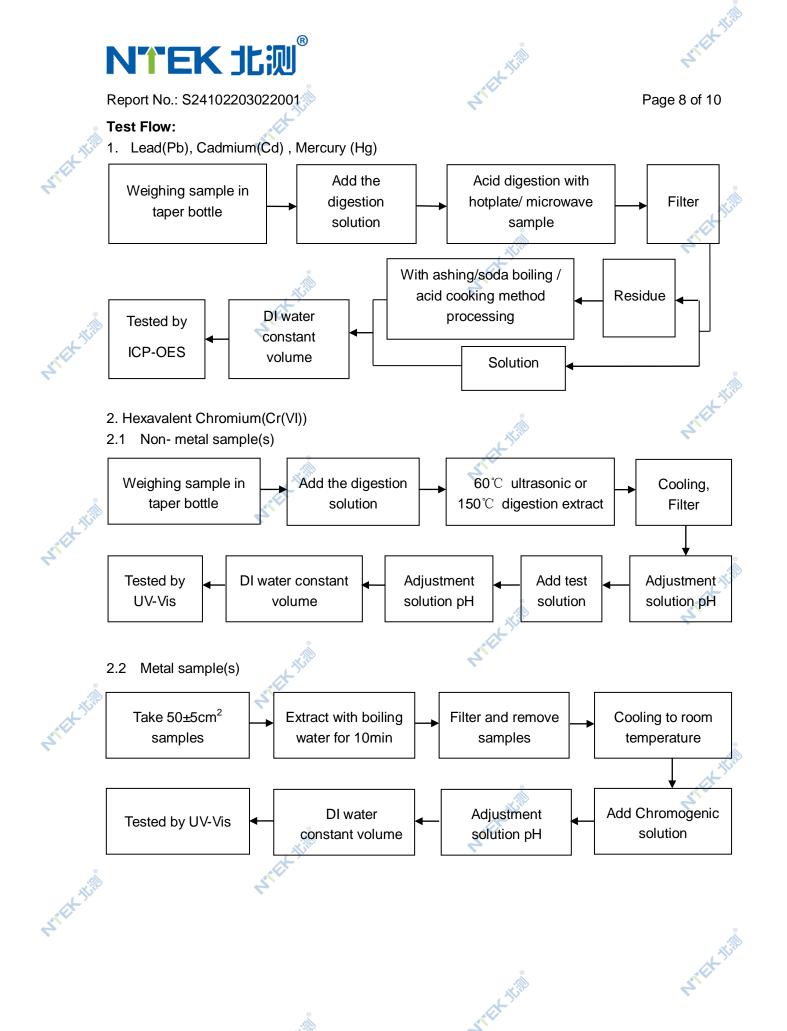
with The

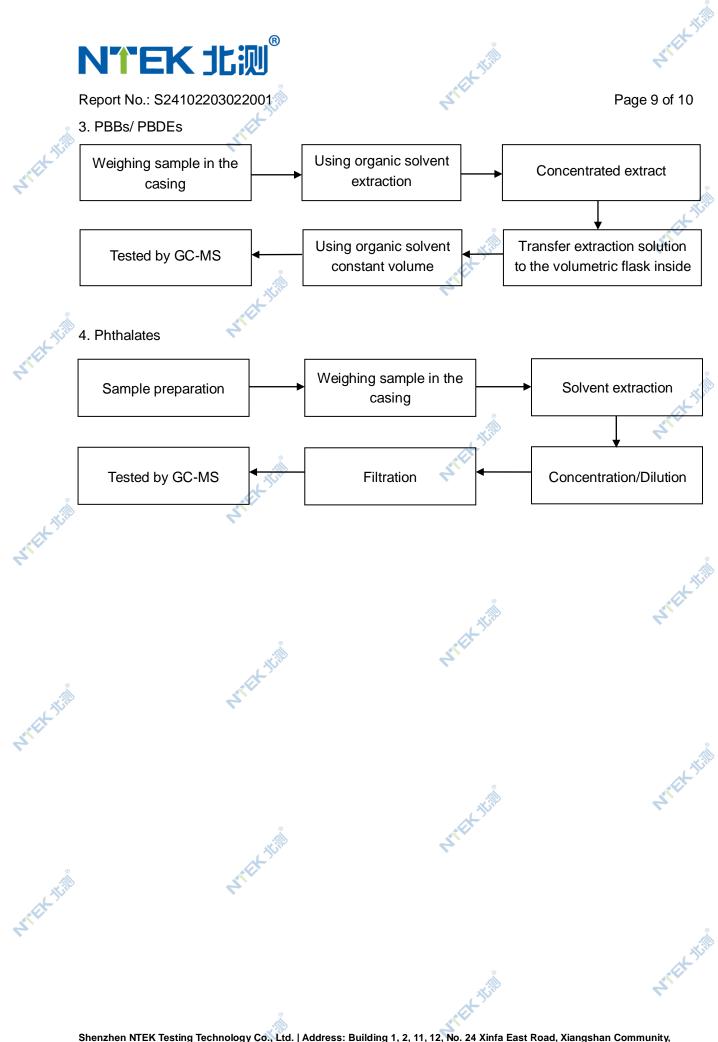
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TEX His	Test item	Test method	Test instrument	MDL	Limit△	
4	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg	
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg	
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm ²	1000 mg/kg	
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg	
	Polybrominated Biphenyls(PBBs)	EC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
WTEX His	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	
WTEX Juil	Dibutyl Phthalate (DBP)	EC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
	Diisobutyl Phthalate (DIBP)		GC-MS	30 mg/kg	1000 mg/kg	
	^A The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.					
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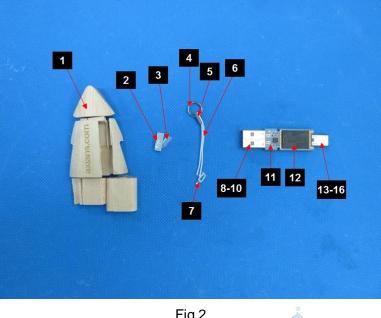
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Fig.1 Finished photo





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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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