



Page 1 of 14

TEST REPORT

Applicant: Address:

STEKT

Flashbay Electronics Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China



Sample name: Model: Client Ref. Info.: Manufacturer&Factory: Address: Power Banks Eco Desk/ECD Terra /TER Flashbay Electronics Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

Sample No.: Sample Received Date: Testing Period: S241022030032 2024-10-24 2024-10-24~ 2024-11-30

Test Requirement:

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.



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

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

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Nina.Cor May Li

Reviewed by:

Luetta Mo

Approved by:

Compiled by:

Date:

2024-12-05

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Sample Description:

This	No.	Sample name	Description	
	1		Yellow wood of shell	
	2		Black colloid of shell	
	3		Transparent colloid of shell	
	4		Black foam with glue of shell	11 ET
	5		Silver metal shell of type-c interface	4
	6		Black plastic of type-c interface	
	7	Mahila Dawar Datu	Metal plug pin of type-c interface	
, Å	8	Mobile Power Bank	Green PCB	
1 Him	9		Magnet core of PCB	
	10		White cotton thread of PCB	
	11		Core of wire of PCB	
	12		Yellow transparent adhesive tape of PCB	A
	13		Red capacitor of PCB	LIV
	14		Tin solder of PCB	•
° N		STEEL THIS	4 st	

Test Result(s):

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

$\begin{tabular}{ c c c c c } \hline Part No. & \hline Test Items & XRF Screening Result(mg/kg) & Chemical Test Result(mg/kg) & Conclusion \\ \hline \hline Part No. & \hline Test Items & XRF Screening Result(mg/kg) & Conclusion \\ \hline \hline Part No. & \hline \hline Part No. & \hline \hline \hline Pb & BL & / & \hline \hline \hline \hline Cd & BL & / & \hline \hline \hline Pb & BL & / & \hline \hline \hline Part Part Part Part Part Part Part Part$. ,.	-						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Part No.	Tes	t Items	-		Conclusion			
$1 \begin{array}{c c c c c c c c } \hline & Hg & BL & / \\ \hline Cr & Cr(VI) & BL & / \\ \hline & PBBs & BL & / \\ \hline & PBDEs & BL & / \\ \hline & PBDEs & BL & / \\ \hline & Cd & BL & / \\ \hline & Cd & BL & / \\ \hline & Hg & BL & / \\ \hline & Cr & Cr(VI) & BL & / \\ \hline & PBBs & BL & / \\ \hline & PBDEs & BL & / \\ \hline & PBBs & BL & / \\ \hline & Cd & BL & / \\ \hline & Hg & BL & / \\ \hline & Cd & BL & / \\ \hline & Cd & BL & / \\ \hline & Cd & BL & / \\ \hline & PBBS & BL & / \\ \hline & PBBS & BL & / \\ \hline & Pass & Pass \\ \hline \end{array}$				Pb 👗	BL	1				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				Cd	BL	1				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1		Hg	BL	/	Dooo			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	AL Hill	I	Cr	Cr(VI)	BL	/	Pass			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNE OWNER OWNE OWNER OWNE		Dr	PBBs	וס	/				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7		DI	PBDEs	DL	/				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Pb	BL	/	At St.			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				Cd	BL	<u>ب</u> ا	J'E			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		0		Hg	BL	A NI	Dees			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			2	Ζ	2	Cr	Cr(VI)	BL		Pass
3 Hg BL / Pass Pass A P			Dr	PBBs	Ы	/				
3 Hg BL / Pass Pass A P			DI	PBDEs	DL	/				
3 Hg BL / Pass Pass A P	at 3			Pb	BL	/				
3 Hg BL / Pass Pass A P	LIV			Cd	BL	/				
Cr Cr(VI) BL / Br PBBs /	•			Hg	BL	/	Bass			
		3	Cr	Cr(VI)	BL	© /	Fass			
PBDEs /			Pr	PBBs	DI	Kill 1	4			
			DI	PBDEs	DL					

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Report No.: S24102203031001



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©		F	⊃b ∕	BL	/		
Hill		(Cd	BL	/		
NTEKI		ŀ	−lg	BL	/	- David	
4	4	Cr	Cr(VI)	BL	/	– Pass	
		D	PBBs	BL	/		
		Br	PBDEs	BL	× /		
		F	Þb	BL	A Him /		
		(Cd 🔬	BL			
	5	ŀ	-lg	BL		Pass	
WTEK HIM	0	Cr	Cr(VI)	IN	N.D.	1 455	
A m		Br	PBBs	1	/	_	
SIL			PBDEs	7	/		
			Pb	BL	/	- til	
		(Cd	BL	/	- Bass Article Line	
	6		lg	BL		– Pass	
	0	Cr	Cr(VI)	BL			
		Br	PBBs	BL		_	
ŝ			PBDEs		/		
(Hill			>b	BL	/	_	
RATEK TEN			Cd	BL		_	
4	7		Hg	BL	/	– Pass 👗	
		Cr	Cr(VI)	BL	1	-	
		Br	PBBs	/	• • • • •	- Ste	
		r	PBDEs	DI			
			>b Cd	BL		_	
				BL		_	
ANTER HIM	8 Cr		Hg Cr(VI)	BL		Pass	
at su		- Ci	PBBs	DL	N.D.	_	
24		Br	PBDEs	IN	N.D.		
		F	Pb	BL	/	- A Line	
			z Cd	BL			
			Hg	BL	A Still		
	9		Cr(VI)	BL		Pass	
			PBBs				
		Br	PBDEs	/	/		
MTEK JU		F	>b	BL	/		
STE		Cc		BL	/		
V			Чg	BL	/	D	
	10 Cr Br	10	Cr	Cr(VI)	BL	/	- Pass
		PBBs			A.C.		
		Br PBDEs	BI	DL			
		, and the second s					

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I	Report No.:	S2410220	3031001		ASTE.	Page 4 of 14
©			Pb	BL	/	
Hill	-		Cd	BL	/	
NTER HI	11		Hg	BL	/	Pass
4.	11	Cr	Cr(VI)	BL	/	Pass
		Br	PBBs	/	/	- Alim
_		Ы	PBDEs		/	
	_		Pb	BL	A Jun 1	
	-		Cd 🔬	BL		
	12		Hg 🔎	BL	/	Pass
	12	Cr	Cr(VI)	BL	/	
A W		Br	PBBs	BL	/	
WTEX TIM			PBDEs		/	¢
•	-		Pb	BL	/	
	-		Cd	BL	/	
	13		Hg	BL		– Pass
		Cr	Cr(VI)	BL		
		Br	PBBs	BL		
<u> </u>			PBDEs		/	
Hill	-		Pb	BL	/	
ALL AND A	-		Cd	BL	/	
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	-	Cr	Cr(VI)	BL	/	- Alin
		Br	PBBs	/		
			PBDEs		Jun 1	
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WTEK Hill Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)

STEL	—	Result(mg/kg)				
4.	Test Items	2	3	4		
	Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	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		
Atin						
ATEK ST	Test Itoms	Result(mg/kg)				
	Test Items	0.40	0 10	40		

ATTE.	Taat Itama	Result(mg/kg)				
*	Test Items	6+13	8	10	12	
	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.	
8	Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	
ALIN .	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

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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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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.

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Remark:

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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.





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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.

		0 00 0					
4		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< th=""><th>BL≤(500-3σ)<Χ</th></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)<>			
		(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL			
	Hg	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ			
1 Jun		<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL			
WTEK Till	Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X			
	Br	BL≤(300-3σ)< X	/	BL≤(250-3σ)< X			
			A STA	MIEL.			

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.

 3σ =The reproducibility of analytical instruments



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LOD= Detection limit

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2. Chemical Test

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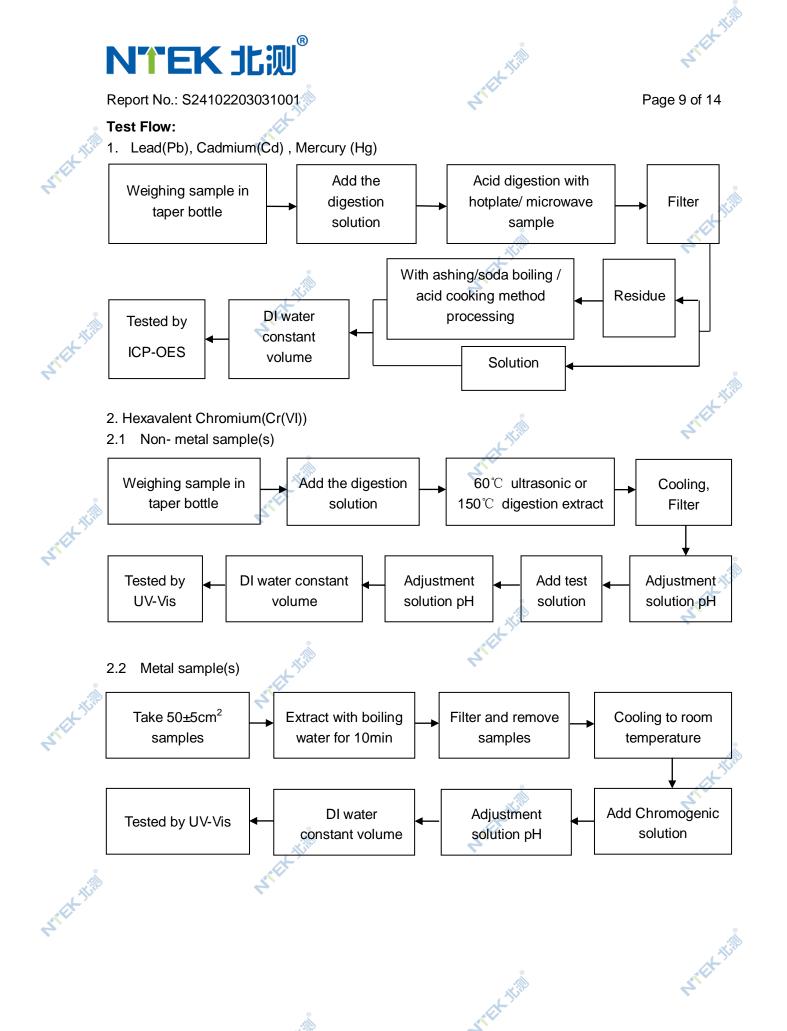
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TEX His	Test item	Test method	Test instrument	MDL	Limit△	
4	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg	
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 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	
ATTER HI	Polybrominated Biphenyls(PBBs)	EC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
	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 TIN	Dibutyl Phthalate (DBP)	EC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
ANTEK .	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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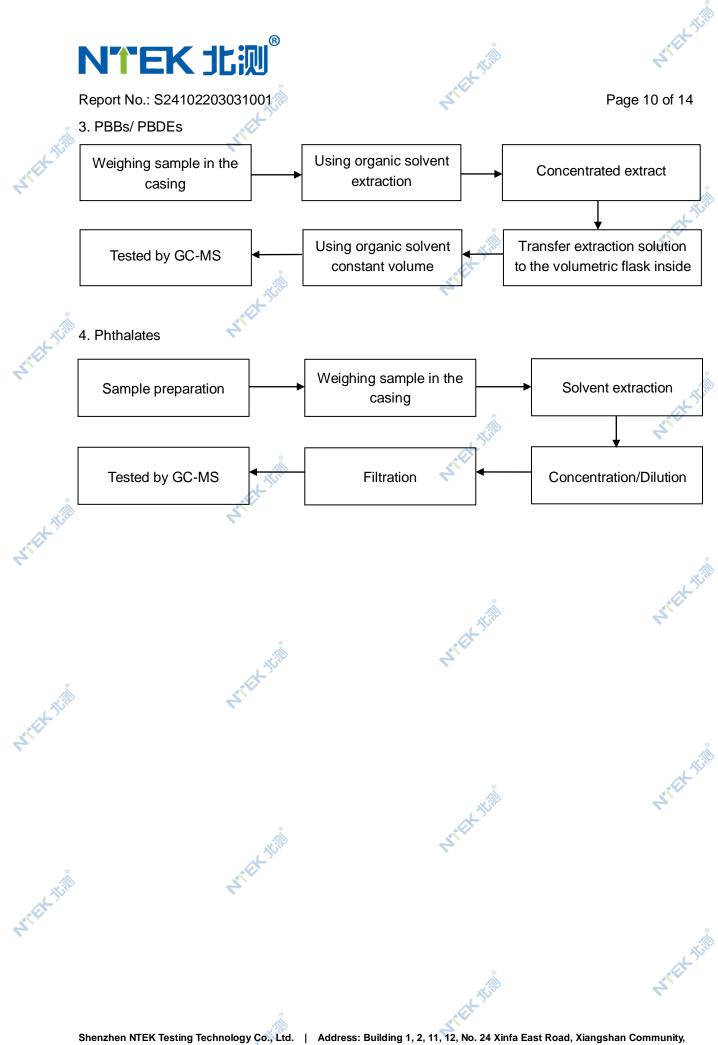
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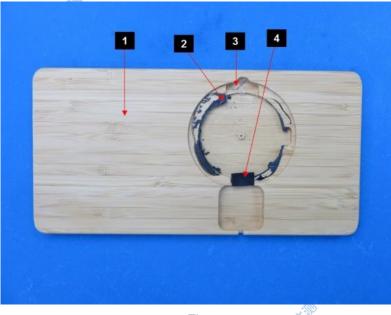
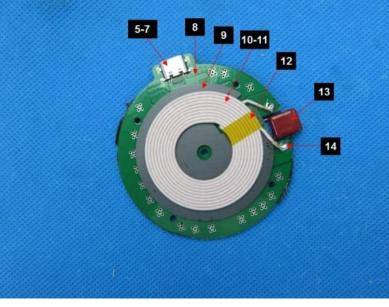


Fig.3





****End of Report****

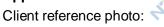
The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

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