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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: Wireless Chargers
Model: Eco Desk/ECD
Client Ref. Info.: Terra /TER

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.: \$241022030032 Sample Received Date: 2024-10-24

Testing Period: 2024-10-24~ 2024-11-30

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.

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:

Date: 2025-01-14

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Pass



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Sample Description:

No.	Sample name	Description		
1		Yellow wood of shell		
2		Black colloid of shell		
3		Transparent colloid of shell	مر ۲	
4		Black foam with glue of shell	110	
5		Silver metal shell of type-c interface	_	
6		Black plastic of type-c interface		
7	Mobile Power Bank	Metal plug pin of type-c interface		
8	WIODITE FOWER DATK	Green PCB		
9		Magnet core of PCB		
10		White cotton thread of PCB		
11		Core of wire of PCB		
12		Yellow transparent adhesive tape of PCB		
13		Red capacitor of PCB	411	
14	0	Tin solder of PCB		

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

	. ,	,,,		<u> </u>	<u> </u>			
	Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion		
			Pb	BL	1			
			Cd Cyrin	BL	/			
	1		Hg	BL	/	Door		
	ı	Cr	Cr(VI)	BL	/	Pass		
		ב.	PBBs	- BL	/			
		⊢ Br	PBDEs		/			
		Pb BL Cd BL	BL	/	*			
			BL	/ /	377			
	0	Hg		BL	A 1	Dana		
	2	Cr	Cr(VI)	BL	<u> </u>	Pass		
		Ċ.	PBBs	DI	DI	/		
>		Br PBDEs BL	/					
			Pb	BL	/			
3		Cd	BL	/				
	2	Hg		Hg		BL	/	Door
	3	Cr Cr(VI)	BL	· /	Pass			
		Dr	PBBs	- BL	Kill I	41		
		Br —	PBDEs		1			



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rtopont rton	02 0220				1 490 0 01 1 1
		Pb	BL	/	
		Cd	BL	/	
4		Hg	BL	/	Door
4	Cr	Cr(VI)	BL	/	Pass
	Dr	PBBs	DI	/	مر ملہ
	Br	PBDEs	BL	<u> </u>	P.E.
		Pb	BL	Lillin 1	
		Cd	BL	1	
5		Hg A	BL	1	Pass
5	Cr	Cr(VI)	IN	N.D.	1 033
	Dr	PBBs	/	/	
	Br	PBDEs	/	/	
		Pb	BL	/	
		Cd	BL	/	A C
6		Hg	BL		Pass
O	Cr	Cr(VI)	BL	at 1	Pass 1
	Br	PBBs	BL		
	וט	PBDEs	DL	/	
		Pb	BL	/	
		Cd	BL	/	
7		Hg	BL	/	Pass
,	Cr	Cr(VI)	BL	/	1 833
	Br PBBs	/	. /	E.	
	ы	PBDEs	7	AKille /	4.
		Pb	BL	1	
		Cd Kills	BL	1	
8		Hg	BL	/	Pass
O	Cr	Cr(VI)	BL	/	1 833
	Br	PBBs	IN	N.D.	
	ы	PBDEs	114	N.D.	
		Pb	BL	/	<u></u>
		Cd	BL	, I	Zile.
a	9	BL	1	Pass	
9		BL	1	1 433	
		,	1		
	ы	PBDEs	,	1	
		Pb	BL	/	
		Cd	BL	1	
10		Hg	BL	/	Pass
10	Cr	Cr(VI)	BL	, <i>I</i>	1 833
	Br	PBBs	BL	, x; 1	41,
	וט	PBDEs	DL	et /	

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Pb BL	Pass	
11	Pass	
Cr Cr(VI) BL / Br PBBs / PBDEs / /	Pass	
Cr Cr(VI) BL /	Fass	
PBDEs /	STEEL!	
PBDES /		
Pb BL Air /		
Cd BL /		
12 Hg BL /	Pass	
Cr Cr(VI) BL /	Pass	
Br PBBs BL /		
PBDEs /		
Pb BL /	3	
Cd BL /	at a	
13 Hg BL /	Pass	
Cr Cr(VI) BL /	Pass*	
Br PBBs BL /		
PBDEs /		
Pb BL /		
Cd BL /		
14 Hg BL /	Pass	
Cr Cr(VI) BL /	F 055	
Br PBBs /		
PBDEs /	4.	

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

Toot Home	Result(mg/kg)				
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		

Test Items	Result(mg/kg)			
rest 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.
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 Applicable2. 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 µg/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 µg/cm² and 0.13 µg/cm², 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.

Elamant.	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)<>
	(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	UV-Vis	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
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
A	(D 110 D: // (E11) 004 E/000		5:	0044/05/5

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

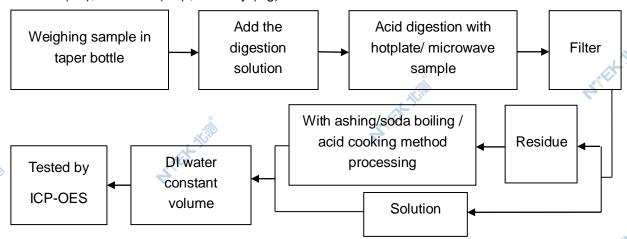
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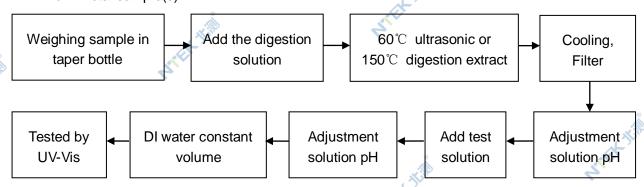
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Test Flow:

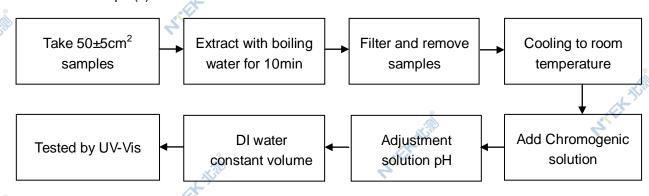
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



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



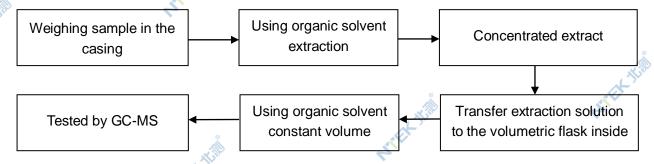
2.2 Metal sample(s)



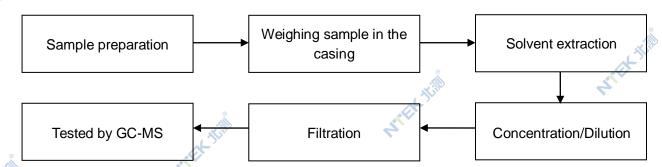


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3. PBBs/ PBDEs



4. Phthalates





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Sample photo(s):



Fig.1 (Finished photo)



Fig.2 (Finished photo)

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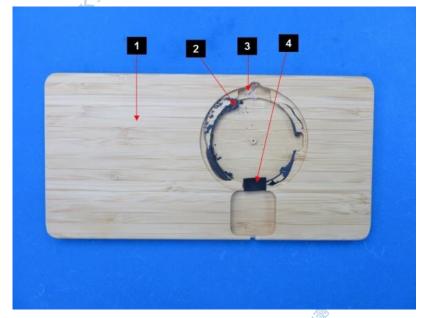


Fig.3

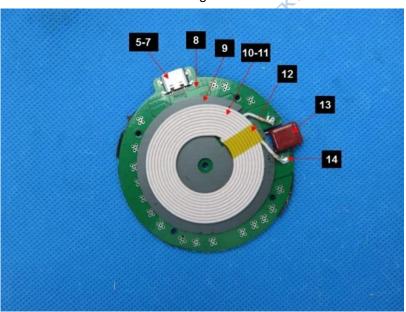


Fig.4

This test report displaces the original report No. S24102203031001, and the original report was invalid since the date of this test report released.

****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.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full.

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

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Appendix:

Client reference photo:





Fig.1

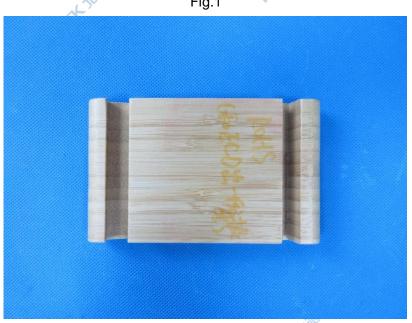


Fig.2

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Fig.3

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