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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: Forest/FR

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.: S241022030036

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.

Pass

**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:	Luetta Mo
Approved by:	May Li	Date:	2025-01-06



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### **Sample Description:**

No.	Sample name	Description	
1		Yellow wood of shell	
2		Transparent colloid of shell	
3		Black colloid of shell	نام ا
4		White plastic sheet with glue of shell	10
5		Gray rubber pad of shell	-
6		Silver metal shell of type-c interface	
7	A Kin	Black plastic of type-c interface	
8	Mobile Power Bank	Metal plug pin of type-c interface	
9		Green PCB	
10		Magnet core of PCB	
11		White cotton thread of PCB	å
12		Core of wire of PCB	A.
13		Red capacitor of PCB	Z''
14		Yellow transparent adhesive tape of PCB	*
15	x;	Tin solder of PCB	

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

	1, 2, 4, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,			- /			
Р	art No.	t No. Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion	
		Pb		BL	/		
	•		Cd Living	BL	/	Davis	
	1		Hg	BL	/		
	·I	Cr	Cr(VI)	BL	/	Pass	
	•	D.,	PBBs	DI	/		
		Br	PBDEs	BL	/		
		Pb Cd Hg	Pb	BL	/	× (*)	
			Cd	BL	/	Zille.	
			Hg	BL	/		
	2	Cr	Cr(VI)	BL	<b>5</b> 1	Pass	
			PBBs	BBs	/	-	
		Br	PBDEs		/	-	
			Pb	BL	/		
		Cd	BL	/	-		
3	Ha	Hg BL /		/	<b>.</b>		
		BL	· /	Pass			
		PBBs	AKIM 1	47			
	Br PBDEs		BL	1			

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	. 02 0220				. ago o o
		Pb	BL	/	
		Cd	BL	/	
4		Hg	BL	/	Door
7	Cr	Cr(VI)	BL	/	Pass
	D.,	PBBs	DI	/	مر ا
	Br	PBDEs	BL	<u></u> 1	· · ·
		Pb	BL	/	7
		Cd	BL	/	
_		Hg Little	BL	/	
5	Cr	Cr(VI)	BL	/	Pass
		PBBs		/	
	Br	PBDEs	BL	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
6	Cr	Cr(VI)	IN	N.D.	Pass
		PBBs		<u> </u>	_
	Br	PBDEs	/	/	_
		Pb	BL	/	
		Cd	BL	/	
	H	Hg	BL	/	_
7	Cr	Cr(VI)	BL	/	Pass
	PRRs	DE	, , , , , , , , , , , , , , , , , , ,	- Ct	
	Br	PBDEs	BL —	· · · · · · · · · · · · · · · · · · ·	45
		Pb 🕺	BL		*
		Cd Will	BL	/	_
		Hg	BL	/	_
8	Cr	Cr(VI)	BL	/	Pass
	01	PBBs	DE	/	
	Br	PBDEs	/	/	
		Pb	BL	/	
		Cd	BL	/	
			BL	/	4,
9	Hg BL Cr Cr(VI) BL PBBs			Pass	
		N.D.			
	Br	- <del> </del>	- IN		_
		PBDEs	DI	N.D.	
		Pb	BL	/	_
			•	_	
10	0	Hg	BL	/	Pass
	Cr	Cr(VI)	BL		
	Br	PBBs	/	Kille /	4
		PBDEs			



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			4 3					
9			Pb	BL	/			
			Cd	BL	/			
4.4		Hg	BL	/	Dana			
	11	Cr	Cr(VI)	BL	/	Pass		
		D.,	PBBs	DI	/	ر ا		
		Br	PBDEs	BL	<u></u> 1	4.00		
			Pb	BL	/			
			Cd 👗	BL	/			
	12		Hg Little	BL	/	Door		
	12	Cr	Cr(VI)	BL	/	Pass		
,		D.	PBBs	1	/			
		Br	PBDEs	/	/			
			Pb	BL	/	3		
		13	Cd	BL	/	A CH		
	12		Hg	BL	/	Pass		
	13		Cr(VI)	BL		F 455		
			1					
9			PBDEs	DL	1			
			Pb	BL	1			
			Cd	BL	/			
	14		Hg	BL	/	Pass		
	14	Cr	Cr(VI)	BL	1	r ass		
		Br	PBBs	BL	· /			
		Di	PBDEs	DL	Kills /	4		
	15	Pb Cd	Pb	IN	34			
			Cd Kills	BL	1			
			Hg BL /	Pass				
10	Cr Cr(VI) BL	BL	/	1 400				
				Br	PBBs	/	/	
			5,	PBDEs	,	/		

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

Test Items	Result(mg/kg)			
r est items	2+3	4	5	
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	7+13	9	11	14
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

1 mg/kg = 1 ppm = 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/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 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.

	0 0 0		
Element	Limit	of IEC 62321-3-1:2013 Ed.1.0	(mg/kg)
Liement	Polymers	Metals	Composite material
DI	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)<>
Cu	(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL
Цα	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<>
пу	Hg <(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	1	BL≤(250-3σ)< X

BL= Below the XRF screening limit Note:

OL=Over the XRF screening limit

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

 $3\sigma$  =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	40.4060	0.10 µg/cm <sup>2</sup>	4000
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0	UV-Vis	8 mg/kg	1000 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
	AThe limit is sureted	from Dolle Directive (ELI) 2015/062		ovillas Dinastiva	2044 (05 (5))

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

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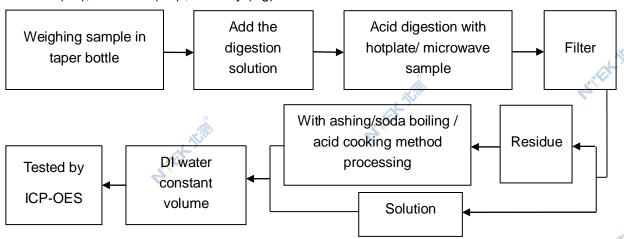
ATELY THE



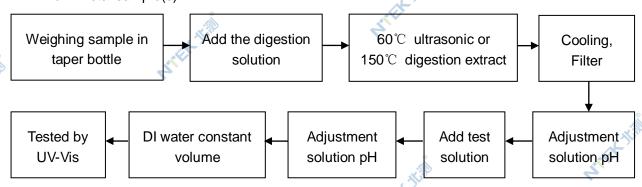
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#### **Test Flow:**

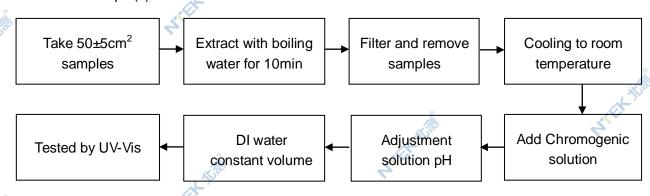
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



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



#### 2.2 Metal sample(s)



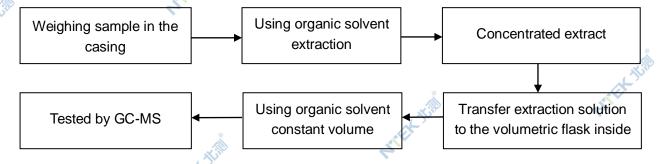
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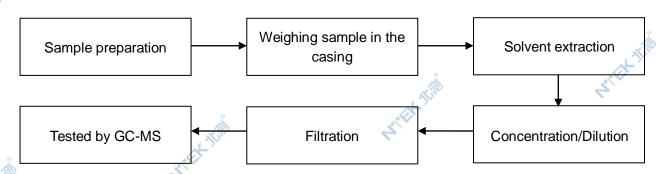
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#### 3. PBBs/ PBDEs



#### 4. Phthalates





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### Sample photo(s):



Fig.1 (Finished photo)



Fig.2 (Finished photo)

TEL Kill

TEK Till

THEK Kill

- EK-Kill

.EL Hill

NIEK JEIM

**K**ill



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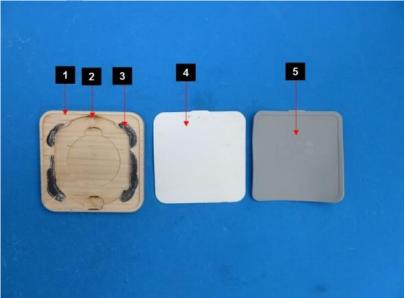


Fig.3

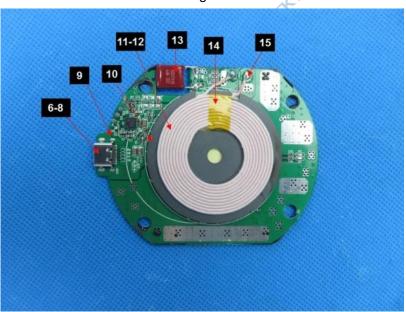


Fig.4

# \*\*\*\*End of Report\*\*\*\*

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