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TESTREPORT

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: Stand/SA

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.: S241022030038

Sample Received Date: 2024-10-24

Testing Period: 2024-10-24~2024-11-26

Test Requirement: Conclusion

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg),

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls(PBBs),

PolybrominatedDiphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP),

Benzylbutyl 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:

Approved by:

Date: 2025-01-06

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Sample Description:

No.	Sample name	Description	
1		Transparent soft plastic film of shell	
2		White plastic sheet with glue of shell	-
3		Black plastic of shell	ر کار
4		Gray plastic label with lettering (with glue) of shell	140
5		Silver metal magnet of shell	7
6	***	Black coating of shell	
7	A-Kin	Silver metal frame of shell	
8		Gray rubber pad of shell	
9		Silver metal screw of shell	
10	Power Banks	Silver metal shell of type-c interface	
11		Black plastic of type-c interface	
12		Metal plug pin of type-c interface	AL S
13		Green PCB of PCB	4
14		Magnet core of PCB	
15		White cotton thread of PCB	
16	at w	Core of wire of PCB	
17	45	Red capacitor of PCB	
18		Yellow transparent adhesive tape of PCB	
19		Tin solder of PCB	

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Test Result(s):

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

Part No.	Te	est Items	XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion
		Pb	BL	1	4.6
		Cd	BL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Hg	BL	J. 1	
1	Cr	Cr(VI)	BL	1	Pass
	Br	PBBs PBDEs	BL	/	
		Pb	BL	/	
		Cd	BL	/	, L
•		Hg	BL	/ /	2
2	Cr	Cr(VI)	BL	A-1111	Pass
	Br	PBBs PBDEs	BL	1	
		Pb	BL	/	
		Cd	BL	/	_
		Hg	BL	/	_
3		Cr(VI)	BL	/	Pass
		PBBs PBDEs	BL	/ / / / / / / / / / / / / / / / / / /	AN EX
		Pb	BL	1	
		Cd Kill	BL	1	-
		Hg	BL	/	D
4	Cr	Cr(VI)	BL	/	Pass
	Br	PBBs PBDEs	BL	/	
	Р	Pb	BL	/	
	Br PBE	Cd	BL	<u></u> /	
E		Hg	BL	Lillin /	Door
5		Cr(VI)	BL	1	Pass
		PBBs PBDEs	/	/	
		Pb	BL	/	
		Cd	BL	/	-
_		Hg	BL	/	_
6	Cr	Cr(VI)	IN	N.D.	Pass
	Br	PBBs PBDEs	BL	1	A. P.



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орон но.	. 02 022				1 490 1 01 10
		Pb	BL	/	
		Cd	BL	/	
7		Hg	BL	/	Door
1	Cr	Cr(VI)	IN	N.D.	Pass
	D.,	PBBs	1	/	م ک
	Br	PBDEs	/	/	
		Pb	BL	L'Hill	
		Cd 👗	BL	1	
		Hg Little	BL	1	_
8	Cr	Cr(VI)	BL	/	Pass
		PBBs		/	
	Br	PBDEs	BL	/	
		Pb	BL	/	
		Cd	BL	/	نا ا
		Hg	BL	,	ALE TO
9	Cr	Cr(VI)	BL	A Living 1	Pass
	Ci	PBBs	DL		
	Br		/	7	_
		PBDEs	DI	/	
		Pb	BL	1	
		Cd		/	
10		Hg	BL	/	Pass
	Cr Cr(VI) IN	N.D.	٠,٠		
	Br	PBBs	_ /	· (iii)	- CAREL
		PBDEs		J. J	4
		Pb	BL		
		Cd Kill	BL	7 /	
11		Hg	BL	/	Pass
	Cr	Cr(VI)	BL	/	1 433
	PRRs	BL	/		
	Br	PBDEs	DL DL	/	
12		Pb	BL	/	4
		Cd	BL	<u></u> /	
	2	BL	1 / Jun /	Davis	
		1	Pass		
		PBBs		1	
	Br	PBDEs	/	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
13	Cr	Cr(VI)	BL	/	Pass
		PBBs		N.D.	3,01
	Br	PBDEs	IN	N.D.	
		ו חחרי		IN.D.	

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	•					•	
9			Pb BL /	/			
			Cd	BL	/		
	4.4		Hg	BL	/	Dana	
	14	Cr	Cr(VI)	BL	/	Pass	
		D.,	PBBs	,	/	مر ۲	
		Br	PBDEs	/	<u></u> 1	4.61	
			Pb	BL	Likim 1		
			Cd	BL			
	15		Hg Lifting	BL	1	Pass	
) }	13	Cr	Cr(VI)	BL	1	F ass	
		Br	PBBs	BL	/		
		DI	PBDEs	DL .	1		
			Pb	BL	1		
			Cd	BL	1	.C.F	
	16		Hg	BL	<u> </u>	Pass	
	10	Cr	Cr(VI)	BL	at 1	1 233	
		Br PBBs /	,				
			PBDEs		1		
			Pb	BL	1		
			Cd	BL	1		
			Hg	BL	1	Pass	
		.,	Cr	Cr(VI)	BL	1	- 1 dos
		Br	PBBs	BL		1	
			PBDEs		Kill /	7	
			Pb	BL			
			Cd Kills	BL	7		
) }	18				/	Pass	
,		BL	1				
		Br PBBs	BL				
			PBDEs		/		
			Pb	BL	1	_ ct	
			Cd	BL	/ /	4,1	
	Cr Cr(VI) B	ч		BL		Pass	
		BL	1				
)		Br	PBBs	/	1		
A			PBDEs		/		

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

Test Items	Result(mg/kg)			
restitems	1+18	2+4	3+11+17	
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	

Toot Home	Result(mg/kg)			
Test Items	6	8	13	
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	

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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;

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 $\mu g/cm^2$,

The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the

0.10μg/cm² and 0.13μg/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.

Element	Limit	t of IEC 62321-3-1:2013 Ed.1.0	(mg/kg)
Element	Polymers	Metals	Composite material
Pb	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<>
PD	<(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<>
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	/	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	1	0.10 µg/cm ²	4.000 mm m/l cm	
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	

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

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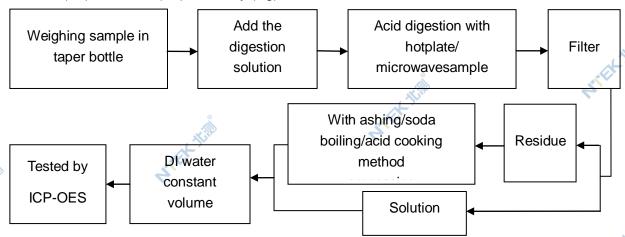
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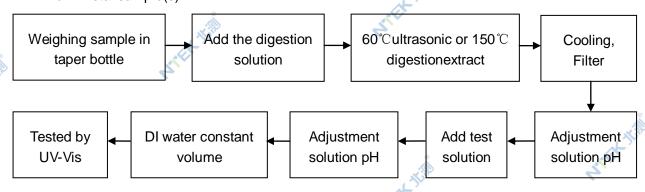
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Test Flow:

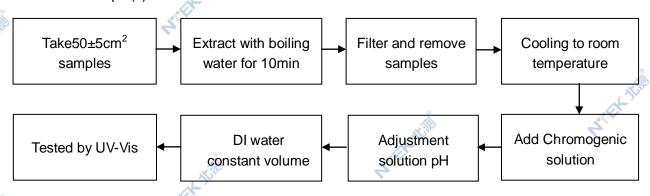
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



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



2.2 Metal sample(s)

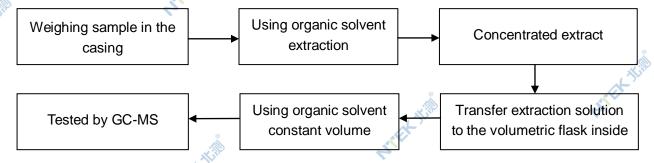




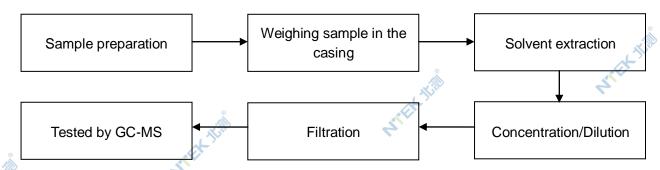
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3. PBBs/ PBDEs



4. Phthalates



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Sample photo(s):



Fig.1 (Finished photo)



Fig.2 (Finished photo)

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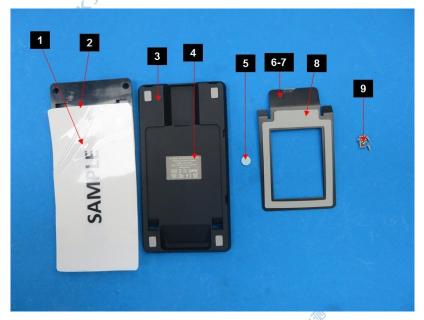


Fig.3

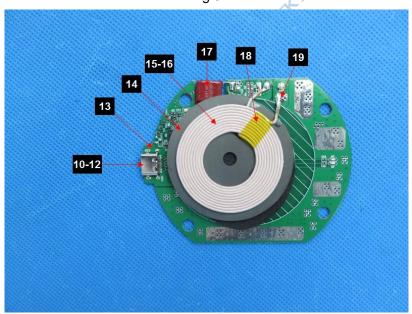


Fig.4

****End of Report****

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