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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: Cirque/CQ

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.: S241022030031

Sample Received Date: 2024-10-24

Testing Period: 2024-10-24~ 2024-11-13

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: Zane. W Reviewed by:

Approved by: Date: 2025-01-06



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Sample Description:

No.	Sample name	Description		
1		White plastic label with lettering (with glue) of shell		
2		Black plastic sheet with glue of shell		
3		Black foam of shell		
4		Silver metal of shell		
5		Gray rubber pad of shell		
6	***	Silver metal screw of shell		
7	A Allin	Silver metal shell of type-c interface		
8	Power Bank	Black plastic of type-c interface		
9	Power bank	Metal plug pin of type-c interface		
10		Green PCB of PCB		
11		Magnet core of PCB		
12		White cotton thread of PCB		
13		Core of wire of PCB		
14	8	Yellow transparent adhesive tape of PCB		
15	N. T.	Red capacitor of PCB		
16	St. ye	Tin solder of PCB		

Test Result(s):

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

	Part No.	Toc	t Itome	XRF Screening	Chemical Test	Conclusion	
	raitino.	Test Items		Result(mg/kg)	Result(mg/kg)	Conclusion	
		Pb xi		BL	1		
		Cd		BL	/		
	4		Hg	BL	/	Pass	
	ı	Cr	Cr(VI)	BL	/		
		Br	PBBs	BL	/		
		ы	PBDEs	DL	/	٨	
	Pb		BL	<u> </u>			
			Cd	BL	A Mills	4	
	2	Hg BL /	1	Pass			
	2	Cr	Cr(VI)	BL	1	F d 5 5	
		Br	PBBs	BL	/		
		DI	PBDEs	DL	/		



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⊚		Pb	BL	/	
*		Cd	BL	/	
		Hg	BL	/	Dane
3	Cr	Cr(VI)	BL	/	Pass
	Б.	PBBs	DI	/	
	Br	PBDEs	BL	<u> </u>	N. C.
		Pb	BL	Till 1	
		Cd 👗	BL	1	
		Hg Little	BL	1	_
4	Cr	Cr(VI)	IN	N.D.	Pass
		PBBs		/	
	Br	PBDEs	/	/	
		Pb	BL	/	
		Cd	BL		- L
		Hg	BL	/	The state of the s
5	Cr	Cr(VI)	BL	A Main /	Pass
	Oi	PBBs	DL		_
	Br	PBDEs	BL	/	
		Pb	BL	/	
		Cd BL		1	_
-			BL	/	_
6	0-	Hg			Pass
	Cr Cr(VI) BL PBBs /	BL	1		
				3,6	
		PBDEs			
		Pb	BL		
		Cd Kin	BL	/	
7		Hg	BL	/	Pass
_	Cr		IN	N.D.	
	Br	PBBs	/	/	
		PBDEs	6	/	-
		Pb BL	/		
		Cd BL	/	- Litt	
8	Br PBE		BL		Pass
		Cr(VI)	BL		
		PBBs	RI	BL /	
		PBDEs		1	
		Pb	BL	/	
	Cd	BL	/		
9		Hg	BL	/	Pass
9	Cr	Cr(VI)	BL	· /	F 455
	PBE PBE	PBBs	,	Kill /	45
	Br	PBDEs	/	1	

Shenzhen NTEK Testing Technology Co., Ltd. | Address: Building 1, 2, 11, 12, No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China | Tel: +86-0755-2320 0050 | http://www.ntek.org.cn

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. topoit i toi.	02 0220				1 ago 1 0. 11	
		Pb	BL	/		
		Cd	BL	/		
10		Hg	BL	/	Door	
	Cr	Cr(VI)	BL	/	Pass	
	D.,	PBBs	INI	N.D.	~L*	
	Br	PBDEs	IN	N.D.	, in	
		Pb	BL	A Min /		
		Cd	BL	1		
4.4		Hg Lifting	BL	/	Door	
11	Cr	Cr(VI)	BL	/	Pass	
		PBBs	,	/		
	Br	PBDEs	/	/		
		Pb	BL	/		
		Cd	BL	/		
		Hg	BL	,	- 2716	
12	Cr	Cr(VI)	BL	A 1	Pass	
		PBBs		1		
	Br	PBDEs	BL	/		
		Pb	BL	/		
		Cd	BL	/		
	Ha		BL	/		
13	Cr	Cr(VI)	BL	/	Pass	
	PRRs	» /				
	Br	PBDEs	/	Kill /	41	
		Pb	BL			
		Cd Kill	BL	1		
		Hg	BL	/		
14	Cr		BL	/	Pass	
	Cr Cr(VI)		/	-		
	Br	PBDEs	BL	/		
		Pb	BL	/	()	
	Cd BL Hg BL Cr Cr(VI) BL PBBs BI		* /			
15				4,		
				/	Pass	
		1				
		Br PBDEs BL	/			
		Pb	BL			
		Cd	BL	/	-	
	На	BL	/	_		
16	C			/	Pass	
	Cr	Cr(VI)	BL	1		
	Br	PBBs	/	AK AND I	7	
		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	1+2	3	5	8+15
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

Test Items	Result(mg/kg)			
rest items	10	12	14	
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.	181	
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	
Conclusion	Pass	Pass	Pass	

Note: 1.N.D. = Not Detected (<MDL)

> MDL = Method Detection Limit 1 mg/kg = 1 ppm = 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 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.

Element	Limit	t of IEC 62321-3-1:2013 Ed.1.0	(mg/kg)
	Polymers	Metals	Composite material
DL	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<>
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

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.

 3σ =The reproducibility of analytical instruments

LOD= Detection limit



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2. Chemical Test

2. Grioffical Tool						
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		
ATh a limit is greated from Dall C Directive (ELI) 2045/002 amonding Appay II to Directive 2044/05/EN						

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

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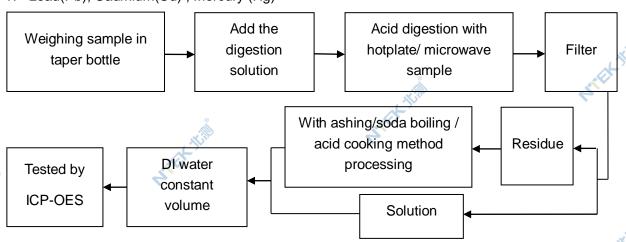
KYTEK JEM



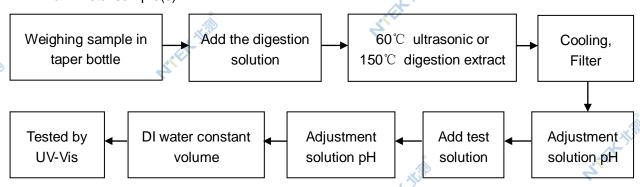
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Test Flow:

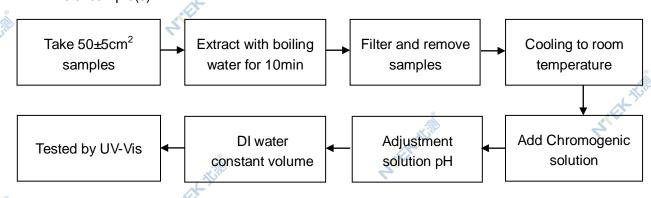
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



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



2.2 Metal sample(s)

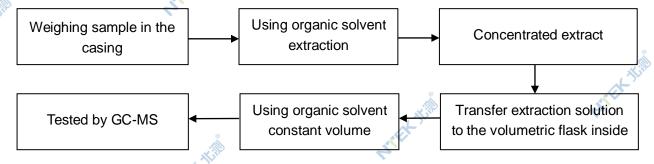




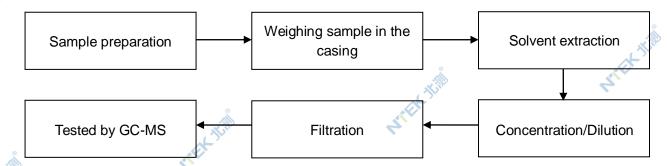
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3. PBBs/ PBDEs



4. Phthalates





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Sample photo(s):



Fig.1 (Finished photo)



Fig.2 (Finished photo)



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Fig.3

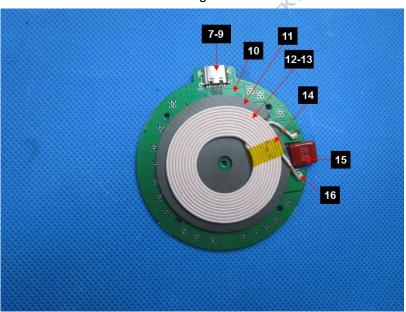


Fig.4

****End of Report****

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