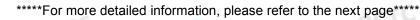
	Test Deve BCT	
	Test Report	
No.BCTC-FY17010055	5R Date: Jan. 23, 2017	Page 1 of 10
Applicant	: Ningbo Three Tree Electronic Co., Ltd.	
Address	: The East Sea Machinery Manufacturing In District, Ningbo, China.	ndustrial Park, Yinzhou
	sample information was/were submitted and	l identified by/on the behalf
of the client Sample name	: work light	
Type /model	: NBT-P2-128	
DOTC.	NBT-P2-127,NBT-P2-179	
Trademark	: N/A	
Manufacturer	> Ningbo Three Tree Electronic Co., Ltd.	
Address	: The East Sea Machinery Manufacturing Ir	dustrial Park, Yinzhou
	District, Ningbo, China.	
Sample received date	: Jan.18, 2017	
Testing period	: Jan.18, 2017-Jan.23, 2017	
Test requested	: 1. As specified by client, to screen Lead(F	Pb), Cadmium(Cd),
	Mercury(Hg), Chromium(Cr) and Bromine sample(s) by XRF.	(Br) in the submitted
	2. As specified by client, when screening screening limit in IEC 62321-3-1:2013, fur	
	methods are required to test the Lead(Pb), Cadmium(Cd),
	Mercury(Hg), Hexavalent Chromium(Cr(V	(I)), Polybrominated
	Biphenyls(PBBs), Polybrominated Dipher	yl Ethers(PBDEs) in the
	submitted samples.	



Tested by July Ton BCTC APPROVED Approved by July Approved by

Lab:Shenzhen BCTC Testing Co.,Ltd.

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No.BCTC-FY170100555R

Date: Jan. 23, 2017

Page 2 of 10

Hotline

www.bctc-lab.com.cn

400-788-9558

Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

	Limit of IEC 62321-3	MDL		
Element	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

-BL = Under the XRF screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

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

 -3σ = The reproducibility of analytical instruments

-LOD= Detection limit

B. Chemical Test

	Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
6	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
	Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Hoveyclant Chromium Cr(//l)	IEC 62321-7-1:2015 Ed.1.0	UV-VIS	/	1000 mg/kg
	Hexavalent Chromium Cr(VI)	IEC 62321:2008 Ed.1 Annex C	UV-VIS	2 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

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Test Report

No.BCTC-FY170100555R

倍测检测 BCTC TEST

Date: Jan. 23, 2017

Page 3 of 10

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusio
	BCTC	Pb	BL	1	
		Cd	BL	/	CTC.
1	Red plastic shell	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	/	-
	C.	Br(PBBs&PBDEs)	BL	/	-
BC		Pb	BL	/	
	Transment	Cd	BL	DO C	
2	Transparent	Hg	BL	1	PASS
	plastic shell	Cr(Cr(VI))	BL	1	205
		Br(PBBs&PBDEs)	BL	1	BCI
		Pb	BL	1	
	- Talland	Cd	BLSC	/	-
3	Transparent	Hg	BL	1	PASS
	plastic	Cr(Cr(VI))	BL	/ BCI	C
		Br(PBBs&PBDEs)	BL	/	-
		Pb	BL	/	1
	Dedwikken	Cd	BL	1	
4	Red rubber	Hg	BL	1	PASS
	DID	Cr(Cr(VI))	BL BC	1	-
	Der	Br(PBBs&PBDEs)	BL	/	
		Pb	BL	/	BCIC
	Cd BL Black plastic Hg BL Cr(Cr(VI)) BL Br(PBBs&PBDEs) BL	Cd	BL	/	PASS
5		Hg	BLC	1	
		Cr(Cr(VI))	BL	1	-
Der		1			
BC	BC.	Pb	BL	BCIT	PASS
		Cd	BL	/	
6		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BLOCTC	/	1

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Test Report

No.BCTC-FY170100555R

Date: Jan. 23, 2017

Page 4 of 10

-10		Pb	BCTC BL	/	
		Cd	BL	/	
7	Black plastic	Hg	BL	20101	PASS
	BCTC	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	/	OTC
		Pb	BL	/	BC
	Disek plastic	Cd	BL	/	
8	Black plastic shell	Hg	BL	/	PASS
	Shell	Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	BOTC	7
	BC	Pb	BL	/	
		Cd	C BL	/	PASS
9	Silvery metal	Hg	BL	/	
		Cr(Cr(VI))	32418	Negative	
	DIDE	Br(PBBs&PBDEs)	/BCIC	/	

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.02 mg/kg with $50cm^2$ sample surface area used.

-2011/65/EU,2011/534/EU According to directive 2011/65/EU and 2011/534/EU.

#1 Lead is exempted as copper alloy containing up to 4% lead by weight

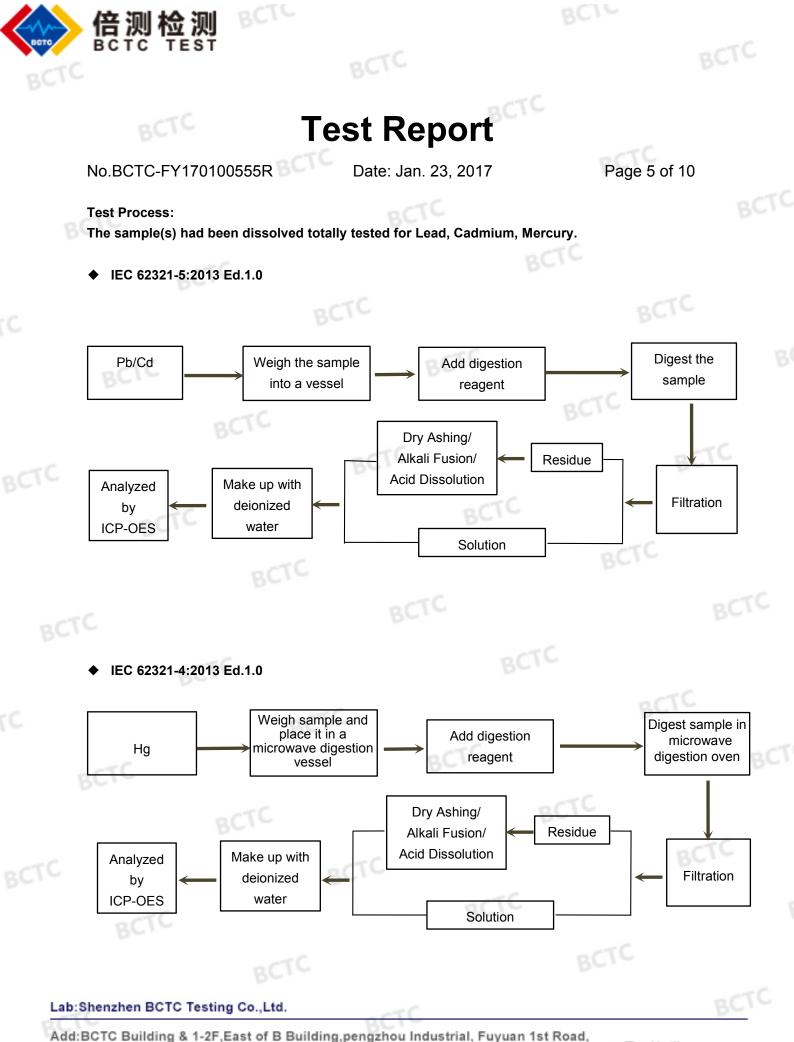
Remark:

- The screening results are only used for reference.

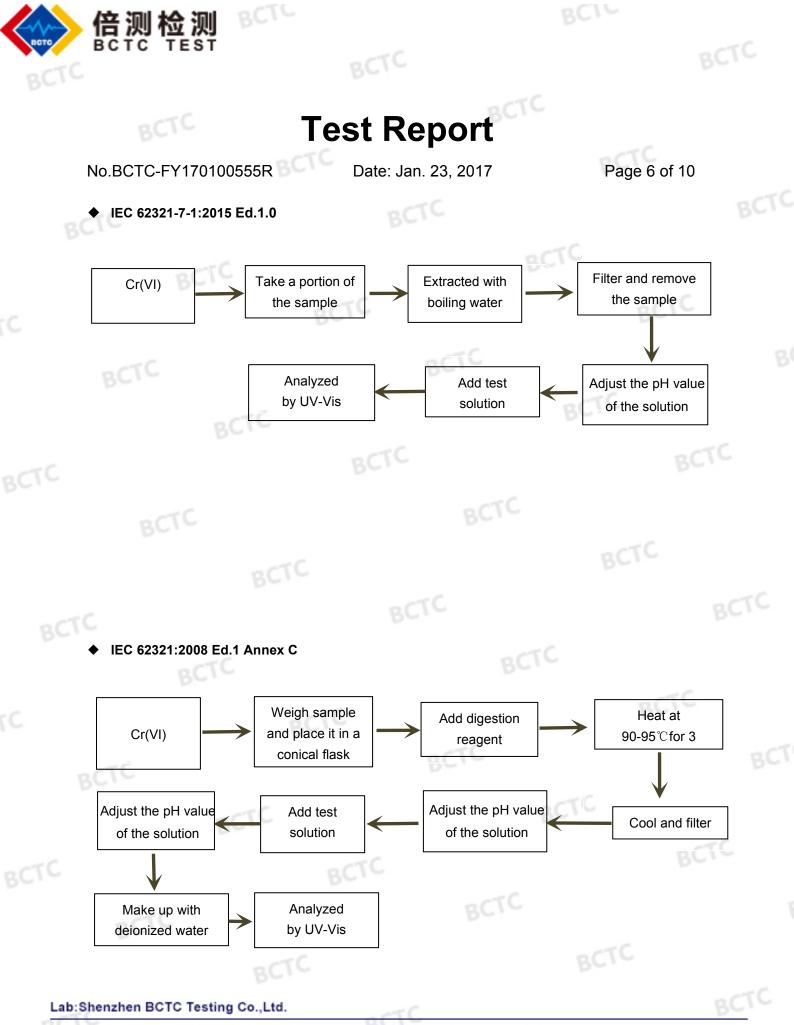
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

Lab:Shenzhen BCTC Testing Co.,Ltd.

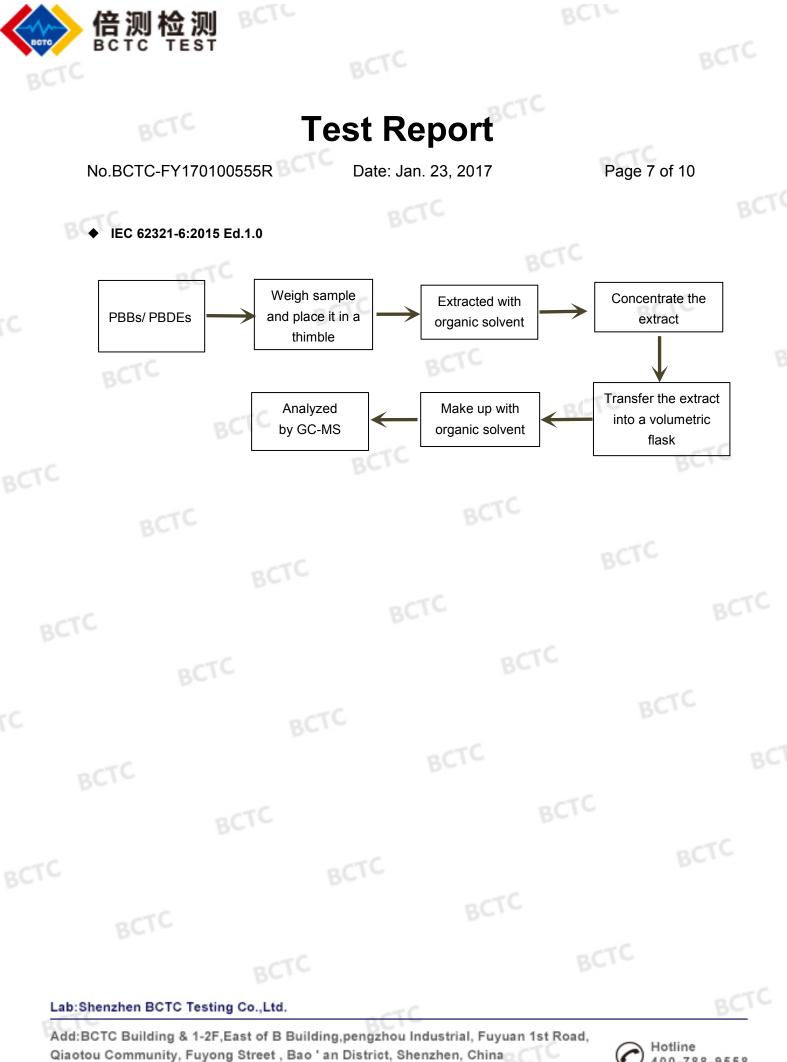
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