

No. BCTC-FYC190726016R

Date: July. 26, 2019

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Applicant	
Address	:

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample name Sample received date Testing period

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July.17, 2019 July.17,2019 - July.16,2019

Test requested

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1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF.

2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted samples.

3. As specified by client, to test the Di-isobutyl phthalate(DIBP),Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP),Bis(2-ethyl(hexyl) phthalate)(DEHP)in the submitted sample(s).

According to the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863

*****For more detailed information, please refer to the next page*****

Tested by Xingping Li BCIC



Lab:Shenzhen BCTC Testing Co.,Ltd.

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Test Method:

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A. Screening test by XRF spectroscopy

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

BCIL	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>			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:	OFTC	BETC			

Note:

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BCTC -BL = Under the XRF screening limit

SCIC -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

-"--" = Not regulated.

B. Chemical Test			BCT	0
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
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
Llevevelent Chromium Cr() (I)	IEC 62321-7-1:2015 Ed.1.0		10	1000 mg/kg
Hexavalent 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
Phthalates	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg

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Test Results:

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
BCT	0	Pb	BL	/	
		Cd	BL		-
1	White plastic	Hg	BL	1	PASS
	1	Cr(Cr(VI))	BL	1	TC
		Br(PBBs&PBDEs)	BL	1	-
		Pb	BL	/	
- 10	BCTC	Cd	BL	/	-
2	White plastic	Hg	BL		PASS
	12	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	/	
C.		Pb BC	BL	/	BL
		Cd	BL	/	
3	Brownt fur	Hg	BL	/	PASS
	200	Cr(Cr(VI))	BL	1	
	_	Br(PBBs&PBDEs)	BL	1	-
		Pb	BL	1	
150		Cd	BCV BL	/	BCIC
4	White plastic	Hg	BL	/	PASS
	2010	Cr(Cr(VI))	BL BC	/	
	Breit	Br(PBBs&PBDEs)	BL	/	in 1
		Pb	BL	1 80	10
		Cd	BL	/	
5	Gray silica gel	Hg	BCBL	/	PASS
BC	10	Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL		
	B	Pb	BL	1	
2		Cd	BL	/	BCTC
6	Silver metal	Hg BCIC	BL	/	PASS
		Cr(Cr(VI))	BLCTC	/	
	BCTC	Br(PBBs&PBDEs)	Γ	/	
		Pb	BL	DC/C	
		Cd	BL	1	
7	Silver screw	Hg	BL	/	PASS
BCTC		Cr(Cr(VI))	BL	/	(P-1)
		Br(PBBs&PBDEs)	1		

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		Pb	BL	/	
		Cd	BL	1	100
8	Silver metal	Hg	BL	/	PASS
BCI		Cr(Cr(VI))	BL	1	
	de	Br(PBBs&PBDEs)	/ B(1	
	Bere	Pb	BL	1	
		Cd	BL	/ BC	C.
9	Switch	Hg	BL	/	PASS
	-10	Cr(Cr(VI))	BL	1	1
	SCIL	Br(PBBs&PBDEs)	BL	1	
		Pb	BL	RCTT	
	BC	Cd	BL	1	
100	LED screen	Hg	C BL	1	PASS
		Cr(Cr(VI))	BL	1	0-
		Br(PBBs&PBDEs)	BL	1	
	BCTC	Pb	BL	/	
	1.000	Cd	BL	dette	
11	Green PCB	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	1	arTC.
TIC		Br(PBBs&PBDEs)	BL	1	Brie
1 × 1		Pb	BL	1	
	RETC	Cd	BL BCT	1	
12	Black magnet	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	1 80	
		Br(PBBs&PBDEs)	BL	1	
	rć.	Pb	BCBE	/	BL
BC		Cd	BL	1	
133	Pink wire	Hg	BL	ICTY /	PASS
	p	Cr(Cr(VI))	BL	1	
-		Br(PBBs&PBDEs)	BL	1	BCTC
		Pb	BL	/	
	-75	Cd	BLC	/	-
14	Brown tape	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	BCIC	-
	-	Br(PBBs&PBDEs)	BL	/	WTTE.
200 E		20	TC		pere

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		Pb	BL	/	
		Cd	BL	/	
15	Green PCB	Hg	BL	/	PASS
BCI	-	Cr(Cr(VI))	BL	1	
	10	Br(PBBs&PBDEs)	BL	TC /	
	BCIC	Pb	BL	/	
		Cd	BL	/ BCI	C
16	Red wire	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	38
5	CIL	Br(PBBs&PBDEs)	BL	1	
		Pb	BL	8019	
	BC	Cd	BL	/	
17	Black wire	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	10
		Br(PBBs&PBDEs)	BL	1	
	BCTC	Pb	BL	/	
		Cd	BL	2776	
18	Silver metal	Hg	BL	1	PASS
	_	Cr(Cr(VI))	BL	/	OFTC
TC		Br(PBBs&PBDEs)	BL	/	BC
		Pb	BL	/	
	BCTC	Cd	BL	/	
19	Silver cell	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
-0	0	Pb	BCBL	/	BC
BC		Cd	BL	1	
20	Black EVA	Hg	BL		PASS
	P	Cr(Cr(VI))	BL	/	-50
		Br(PBBs&PBDEs)	BL	/	BCI-
		Pb	BL	/	
		Cd	BL	/	F
21	Tin solder	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	BCY	
	, I	Br(PBBs&PBDEs)	BL	1	
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	14 C			1.	
		Pb	BL	/	
		Cd	BL	/	
22	IC	Hg	BL	/	PASS
BCI	-	Cr(Cr(VI))	BL	/	
	-10	Br(PBBs&PBDEs)	BL BC		
	BCIC	Pb	BL	/	
		Cd	BL	BCI	C
23	IC(QC1302)	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	
1	CIL	Br(PBBs&PBDEs)	BL	1	
		Pb	BL	BCT4	
	BC	Cd	BL	1	
24	Oscillator	Hg	E BL	/	PASS
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
	BCTC	Pb	BL	/	
		Cd	BL	DITC	
25	CBB capacitance	BCTCHg	BL	1	PASS
		Cr(Cr(VI))	BL	/	OFTC
TTC		Br(PBBs&PBDEs)	BL	/	Bruch
		Pb	BL	/	
	BCTC	Cd	BL	1	
26	IC(D8105)	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	BC.	
		Br(PBBs&PBDEs)	BL	/	
	ró.	Pb	BL	/	BC
BC		Cd	BL	1	
27	USB metal joint	Hg	BL 🔋		PASS
		Cr(Cr(VI))	BL	/	
÷		Br(PBBs&PBDEs)	/	/	BCTC
		Pb	BL	/	
	1 CTC	Cd	BL	/	
28	SMD capacitance	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	BCIC	
		Br(PBBs&PBDEs)	BL	/	

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		Pb	BL	/	
		Cd	BL	/	
29 Micro n	netal joint	Hg	BL	/	PASS
BLIT		Cr(Cr(VI))	BL	1	
	de	Br(PBBs&PBDEs)	/		
	Bere	Pb	BL	/	
		Cd	BL	/ BCI	C.
30 SMD ca	pacitance	Hg	BL	/	PASS
100		Cr(Cr(VI))	BL	/	8
BCIN		Br(PBBs&PBDEs)	BL	1	
		20 C		BCTG	

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Tested Item(s)		Results Unit (mg/kg)		
- TTC		1-30	BCI	
Di-isobutyl phthalate(DIBP)		ND		
CAS #:84-69-5		N.D.		
Dibutyl phthalate(DBP)		ND		
CAS #:84-74-2	RETE	N.D.	BETC	
Benzylbutyl phthalate(BBP)		N.D.	C	
CAS #:85-68-7		N.D.	1	
Bis(2-ethyl(hexyl) phthalate)(DEHP)				
CAS #:117-81-7		N.D.		

Note:

ICTO

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-" / "= Not conducted.

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu g/cm^2$ with $50cm^2$ sample surface area used.

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-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu g/cm^2$ with $50cm^2$ sample surface area used.

Remark:

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- The screening results are only used for reference.

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- 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.

RCTC

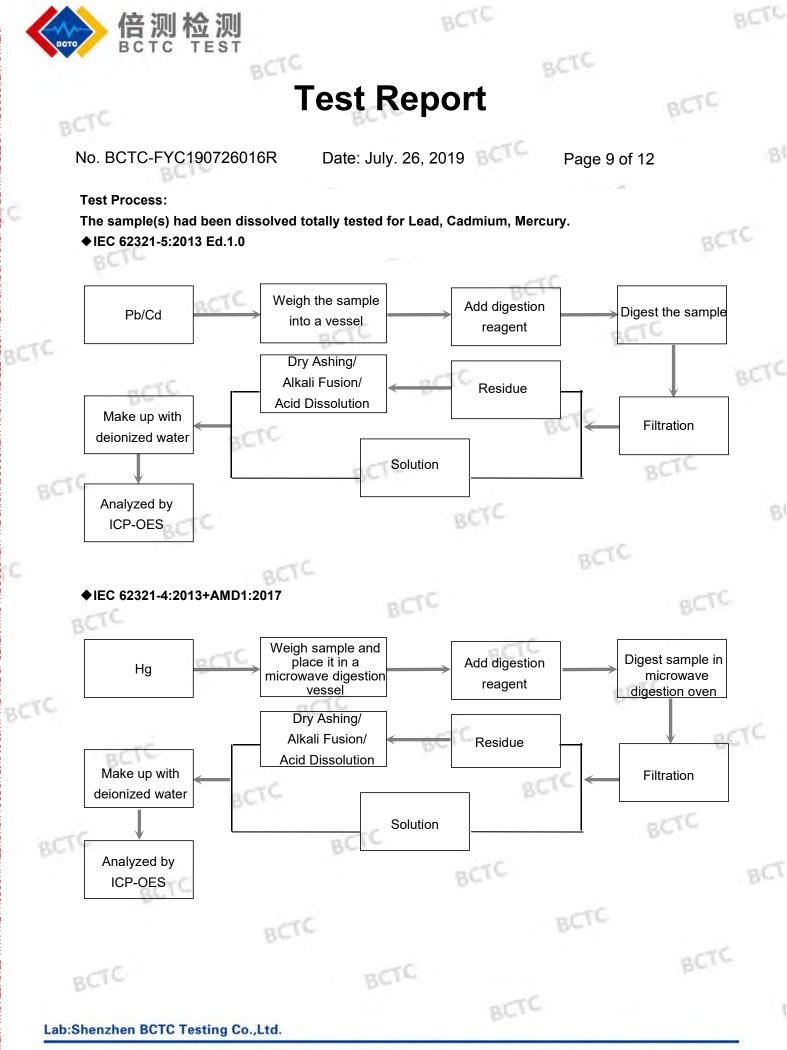
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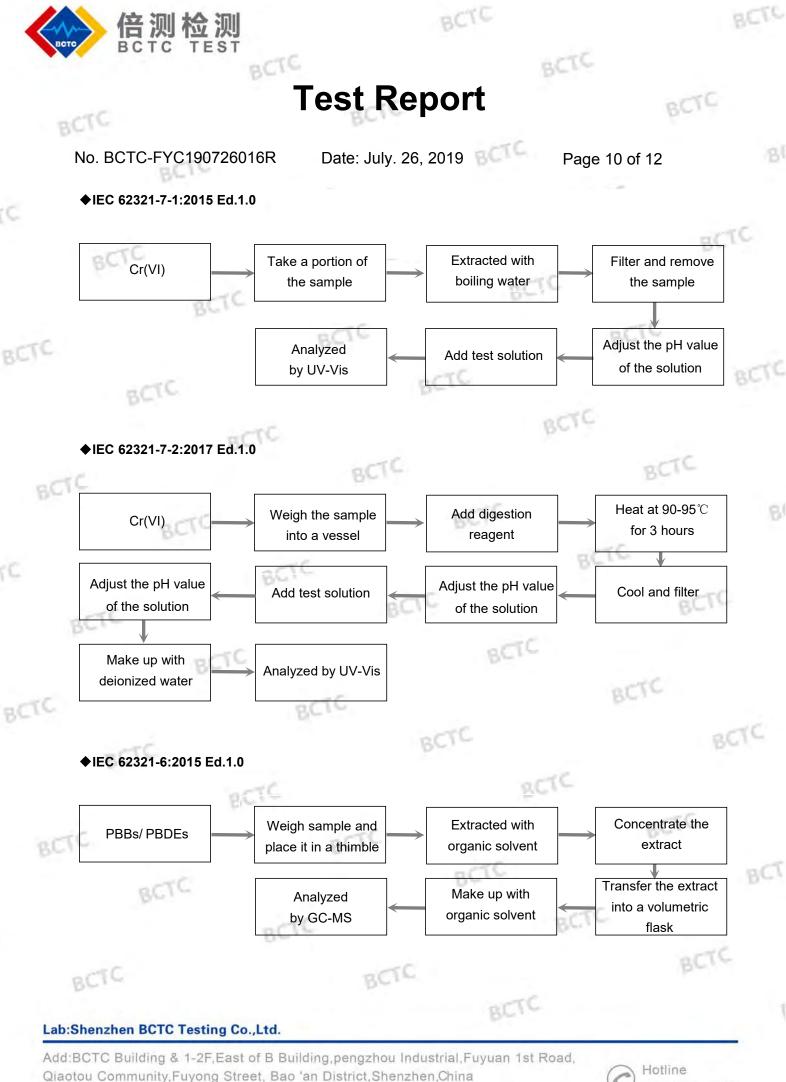
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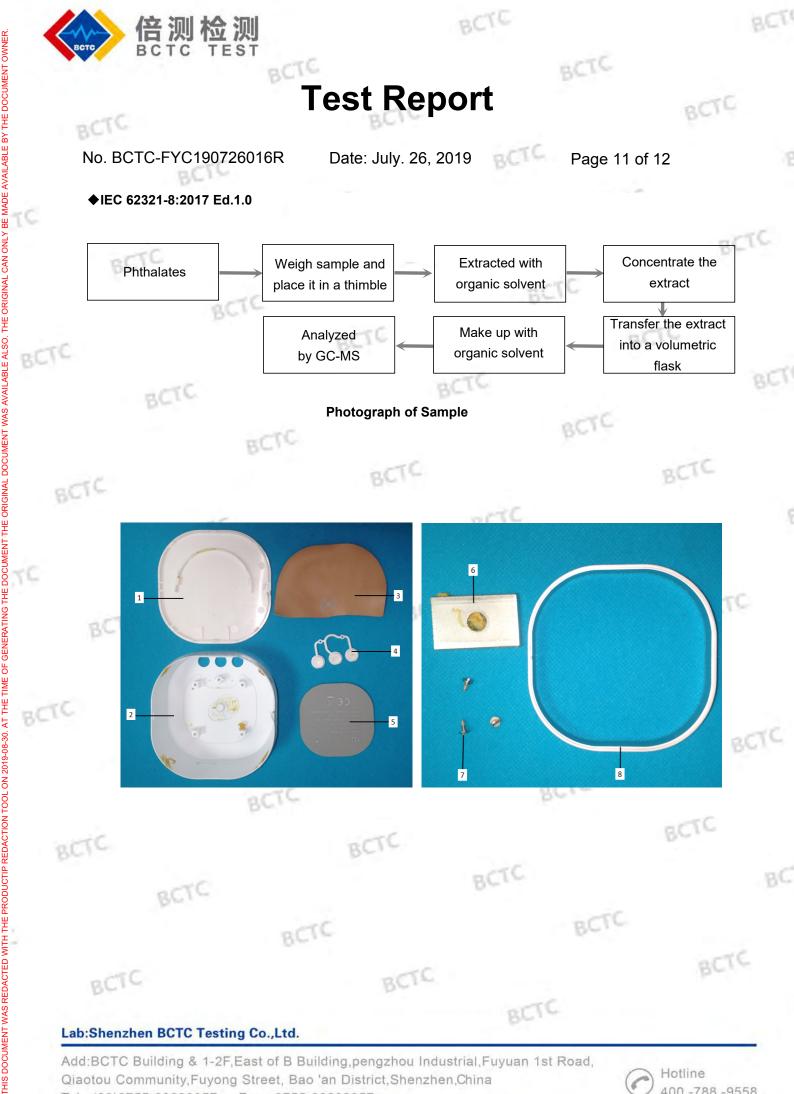
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Test Report

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Photo(s) of the tested component(s)

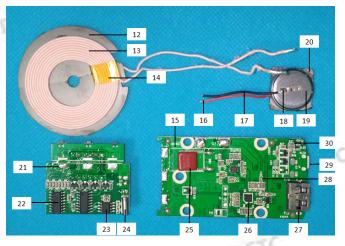


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