

No. BCTC-FYC190716020R

Date: July. 16, 2019

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Applicant	:	
Address	:	

: DHBT033

July.05, 2019

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

July.05,2019 - July.16,2019

Sample name Sample received date **Testing period**

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

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

Tested by Xingping Li BCIC



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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.

BCIC	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
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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
Lisuanda et Ohnemium Or()///	IEC 62321-7-1:2015 Ed.1.0		100	1000 mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-2:2017 Ed.1.0	00-015	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	C.
BCI	<u> </u>	Pb	BL	/		
		Cd	BL	TC /	-	
1	BCTC	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	1	IC .	
	-	Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		0.0
	BCTC	Cd	BL	/		20
2	Gray foam frame	Hg	BL	and C	PASS	
	(Frame)	Cr(Cr(VI))	BL	1001	-	
		Br(PBBs&PBDEs)	BL	/	1015	
C		Pb	BL	/	Ber	1
		Cd	BL	/	-	
3	Black leather	Hg	BL	/	PASS	
	(Frame)	Cr(Cr(VI))	BL	1	-	
		Br(PBBs&PBDEs)	BL	1	-	
-	Pb	BL	/			
	_	Cd	BCI BL	/	BUIL	
4	Black plastic frame	Hg	BL	/	PASS	
	(Frame)	Cr(Cr(VI))	BL BCI			
	BLIS	Br(PBBs&PBDEs)	BL	/	Sec.	
		Pb	BL	/ BC	LC.	
		Cd	BL	1	-	
5	Silver metal stents	Hg	BL	/	PASS	10
BC	(Pranic)	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	1	ICICI	-	
	B	Pb	BL	/		1
2		Cd	BL	/	BCTC	
6	Silver plated	Hg	BL	/	PASS	
plastic buckle	plastic buckle	Cr(Cr(VI))	BL	/		10
	BCTC	Br(PBBs&PBDEs)	BL	/		1
		Pb	BL	-dsC		1
		Cd	BL	/		
7	Black screw	Hg	BL	/	PASS	
PTDA		Cr(Cr(VI))	BL	/	pu	
D.		Br(PBBs&PBDEs)	1		1	

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		Pb	BL	BCIL	
		Cd	BL	1	
8	Black plastic	Hg	BL	/	PASS
BCI	ear shen(Earrap)	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	1	
	BUIL	Pb	BL	/	
	Dla ala su stal a su su	Cd	BL	1 80	I C
9	(Earlap)	Hg	BL	1	PASS
	(200100)	Cr(Cr(VI))	BL	/	
- 1	SCIL	Br(PBBs&PBDEs)	1	1	
		Pb	BL	aC14	
	BC	Cd	BL	1	
10	Silver plastic stents	Hg	BL	/	PASS
10 C	(Lanap)	Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
	BCTC	Pb	BL	/	
		Cd	BL	-FTC	-
11	(Connecting line)	Hg	BL	1	PASS
	(Connecting fine)	Cr(Cr(VI))	BL	/	OFTC
TTC		Br(PBBs&PBDEs)	BL	/	BC
,		Pb	BL	1	
	RCTC	Cd	BL	/	
12	Red enameled wire	Hg	BL	1	PASS
	(Connecting line)	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	1	/	
	10	Pb	BCBL	/	BC
pc	Green enameled	Cd	BL	1	
13	wire(Connecting	Hg	BL		PASS
	line)	Cr(Cr(VI))	BL	1	
6		Br(PBBs&PBDEs)	1	/	BCIC
		Pb	BL	/	
	- CTC	Cd	BL	/	_
14	Black leather	Hg	BL	1	PASS
	(Earmuff)	Cr(Cr(VI))	BL	BCY	-

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	D		PC V	
	Pb	BL		-
Black mesh cloth	Cd	BL	/	
(Earmuff)	Hg	BL	/	PASS
	Cr(Cr(VI))	BL	1	_
arte	Br(PBBs&PBDEs)	BL BC	1	
Berg	Pb	BL	1	-
Vellow hubble	Cd	BL	1 801	
cotton(Earmuff)	Hg	BL	1	PASS
-35	Cr(Cr(VI))	BL	1	1
101-	Br(PBBs&PBDEs)	BL	1	
1	Pb	BL	BCT4	
BL L L BC	Cd	BL	1	
Black plastic	Hg	BL	/	PASS
	Cr(Cr(VI))	BL	/	
	Br(PBBs&PBDEs)	BL	/	
BCTC	Pb	BL	/	
Black plastic cover (Horn)	Cd	BL	-CTC	_
	Hg	BL	1	PASS
	Cr(Cr(VI))	BL	1	OFTC
	Br(PBBs&PBDEs)	BL	/	Brie
White dustproof	Pb	BL	/	
	Cd	BL BC	1	
	Hg	BL	1	PASS
	Cr(Cr(VI))	BL	1 60	
	Br(PBBs&PBDEs)	BL	/	
rÓ	Pb	BC BE	/	BC
	Cd	BL	1	
Tin solder(Horn)	Hg	BL 🔋		PASS
6.0	Cr(Cr(VI))	BL	1	
	Br(PBBs&PBDEs)	1	1	BCIC
	Pb	BL	/	
	Cd	BLCTC	/	-
PCB board(Horn)	Ha	BL	1-	PASS
- ()	Cr(Cr(VI))	BL	BCYC	-
	Br(PBBs&PBDEs)	BL	/	write.
	· · ·			BC. I.
	Black mesh cloth (Earmuff) Yellow bubble cotton(Earmuff) Black plastic ring(Earmuff) Black plastic cover 	PbCdHgCr(Cr(VI))Br(PBBs&PBDEs)Yellow bubble cotton(Earmuff)PbCdHgCr(Cr(VI))Br(PBBs&PBDEs)Black plastic ring(Earmuff)Black plastic cover (Horn)Br(PBBs&PBDEs)Black plastic cover (Horn)PbCdHgCdBr(PBBs&PBDEs)PbCdBr(PBBs&PBDEs)PbCdHgCr(Cr(VI))Br(PBBs&PBDEs)PbCdHg <t< td=""><td>Black mesh cloth (Earmuff)PbBLImage: Black mesh cloth (Earmuff)HgBLCdBLBr(PBBs&PBDEs)BLBr(PBBs&PBDEs)BLBLCdBLBLCdBLBLCdBLBLCdBLBLCdBLBLCr(Cr(VI))BLBLBlack plastic ring(Earmuff)PbBLCdBLF(PBs&PBDEs)BLCdBLCdBLCdBLF(Cr(VI))BLBCCdTin solder(Horn)HgBLCdBLCdBLPbBLCdBLCdBLCdBLPCB board(Horn)HgBLCdBLCdBLCdBLCdBLCdBLCdBLF(PBs&PBDEs)/FPbBLCdBLF(PBs&PBDEs)BLCdBLF(PBs&PBDEs)BL</td></t<> <td>Pb BL / Black mesh cloth (Earmuff) Cd BL / Hg BL / Cr(Cr(VI)) BL / Br(PBs&PBDEs) BL / Pb BL / Yellow bubble cotton(Earmuff) Pb BL / Gd BL / / Black plastic ring(Earmuff) Pb BL / Black plastic ring(Earmuff) Pb BL / Black plastic cover (Horn) Pb BL / Black plastic cover (Horn) Pb BL / Black plastic cover (Horn) Pb BL / Vhite dustproof net(Horn) Pb BL / Cd BL / / Pb BL / / Gd BL / / CfC(Cr(VI)) BL / / Black plastic cover (Horn) Pb BL / CfC(Cr(VI))</td>	Black mesh cloth (Earmuff)PbBLImage: Black mesh cloth (Earmuff)HgBLCdBLBr(PBBs&PBDEs)BLBr(PBBs&PBDEs)BLBLCdBLBLCdBLBLCdBLBLCdBLBLCdBLBLCr(Cr(VI))BLBLBlack plastic ring(Earmuff)PbBLCdBLF(PBs&PBDEs)BLCdBLCdBLCdBLF(Cr(VI))BLBCCdTin solder(Horn)HgBLCdBLCdBLPbBLCdBLCdBLCdBLPCB board(Horn)HgBLCdBLCdBLCdBLCdBLCdBLCdBLF(PBs&PBDEs)/FPbBLCdBLF(PBs&PBDEs)BLCdBLF(PBs&PBDEs)BL	Pb BL / Black mesh cloth (Earmuff) Cd BL / Hg BL / Cr(Cr(VI)) BL / Br(PBs&PBDEs) BL / Pb BL / Yellow bubble cotton(Earmuff) Pb BL / Gd BL / / Black plastic ring(Earmuff) Pb BL / Black plastic ring(Earmuff) Pb BL / Black plastic cover (Horn) Pb BL / Black plastic cover (Horn) Pb BL / Black plastic cover (Horn) Pb BL / Vhite dustproof net(Horn) Pb BL / Cd BL / / Pb BL / / Gd BL / / CfC(Cr(VI)) BL / / Black plastic cover (Horn) Pb BL / CfC(Cr(VI))

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		Pb	BL	BACIN	
		Cd	BL	1	
22	Black plastic rack	Hg	BL	/	PASS
BCI	(mon)	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL 📳		
	BUIL	Pb	BL	/	
		Cd	BL	/ 801	C.
23	Magnetic shield (Horn)	Hg	BL	/	PASS
	(mon)	Cr(Cr(VI))	BL	/	
- 9	SCIL	Br(PBBs&PBDEs)	1	1	
		Pb	BL	act4	
	BC	Cd	BL	1	
24	Magnet (Horn)	Hg	BL	/	PASS
C		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	1 AC	/	
	BCTC	Pb	BL	/	
		Cd	BL	JCTC.	
25	(Horn)	BCTCHg	BL	1	PASS
	(110111)	Cr(Cr(VI))	BL	/	OFTC
STO		Br(PBBs&PBDEs)	BL	/	Bress
30		Pb	BL	1	
	Enomolod ooil	Cd	BL	1	
26	(Horn)	Hg	BL	1	PASS
	()	Cr(Cr(VI))	BL	1 50	
		Br(PBBs&PBDEs)	1	/	
	10	Pb	BCBL	1	BC
BC		Cd	BL	1	
27	Black oval rubber	Hg	BL	801-1	PASS
	Ting	Cr(Cr(VI))	BL	1	-50
C		Br(PBBs&PBDEs)	BL	1	BCIN
		Pb	BL	/	
	Black plastic	Cd	BL	/	
28	button(Tact Switch)	Hg	BL	1	PASS
28	(Circuit board)				-
28	(Circuit board)	Cr(Cr(VI))	BL	BCY	

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		Pb	BL	BLIC	
	Sheet metal	Cd	BL	/	
29	(Tact Switch)	Hg	BL	/	PASS
BCI	(Circuit board)	Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	1 80		
	BCIC	Pb	BL	/	
	LED Ontology	Cd	BL	1 801	C
30	(TLED lamp)	Hg	BL	/	PASS
	(Circuit board)	Cr(Cr(VI))	BL	/	10
	BCIL	Br(PBBs&PBDEs)	BL	1	
		Pb	BL	eC14	
	BC	Cd	BL	/	
31	Pin(TLED lamp)	Hg	BL	/	PASS
C.	(Circuit board)	Cr(Cr(VI))	BL	/	per
	1.11	Br(PBBs&PBDEs)	1	/	
	BCTC	Pb	BL	/	
		Cd	BL	1-10	
32	(Circuit board)	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	OTTC
DITE		Br(PBBs&PBDEs)	1	/	Brit
p.		Pb	BL	1	
	Dut ICBCTC	Cd	BL	/	
33	(Circuit board)	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	1 60	
		Br(PBBs&PBDEs)	BL	/	
	10	Pb	BCBL	/	BC
BC		Cd	BL	1	
34	Tin solder (Circuit board)	Нg	BL		PASS
	(Chedit board)	Cr(Cr(VI))	BL	/	
C		Br(PBBs&PBDEs)	/	/	BCIC
		Pb	BL	1	
	1000	Cd	BL	/	
35	PCB board	Hg	BL	1	PASS
-	(Circuit Doard)	Cr(Cr(VI))	BI	BCYC	
		Br(PBBs&PBDEs)	DI DI	/	
			DL DL		801-

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		1	in Child	
	Pb	BL	BL	
Black plastic	Cd	BL	/	
headset seat	Hg	BL	/	PASS
(Circuit board)	Cr(Cr(VI))	BL	1	
100	Br(PBBs&PBDEs)	BL BL	/	
BCIT	Pb	BL	/	-
	Cd	BL	/ 801	line of the second s
Black glue cap	Hg	BL	/	PASS
(microphone)	Cr(Cr(VI))	BL	/	
L'in	Br(PBBs&PBDEs)	BL	1	
	Pb	BL	8014	
Copper shell	Cd	BL	1	
(Microphone)	Hg	BL	/	PASS
	Cr(Cr(VI))	BL	/	
	Br(PBBs&PBDEs)	Inc	/	
BCTC	Pb	BL	/	
Vibration film (Microphone)	Cd	BL	alte	1
	BCTCHg	BL	/	PASS
	Cr(Cr(VI))	BL	/	OTC
	Br(PBBs&PBDEs)	BL	/	Briss
	Pb	BL	1	
Matal miner	Cd	BL	/	
(Microphone)	Hg	BL	1	PASS
(wherophone)	Cr(Cr(VI))	BL	1 80	
	Br(PBBs&PBDEs)	1	/	
ró.	Pb	BCBL	/	BC
X71.4. 1. 4	Cd	BL	1	1
white plastic ring (Microphone)	TC Hg	BL		PASS
	Cr(Cr(VI))	BL	/	
	Br(PBBs&PBDEs)	BL	/	BCIC
	Pb	BL	/	
	Cd	BL	/	
Sheet metal	Hg	BL	1	PASS
(witcropnone)	Cr(Cr(VI))	BL	BCY	
	Br(PBBs&PBDEs)	/	/	DITC
		TC .	1	p-
	Black plastic headset seat (Circuit board)Black glue cap (Microphone)Copper shell (Microphone)Vibration film (Microphone)Metal ring (Microphone)White plastic ring 	Black plastic headset seat (Circuit board)PbCdHg(Circuit board)Br(PBBs&PBDEs)Black glue cap (Microphone)HgCdHgCr(Cr(VI))Br(PBBs&PBDEs)Copper shell (Microphone)HgCdHgCdHgCdHgCdHgCdHgMetal ring (Microphone)PbCdHgMetal ring (Microphone)Cr(Cr(VI))Br(PBBs&PBDEs)CdMetal ring (Microphone)HgCdHgMite plastic ring (Microphone)PbSheet metal (Microphone)PbCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHgCdHg	Black plastic headset seat (Circuit board)PbBLCdBL(Circuit board)Cr(Cr(VI))BLBr(PBBs&PBDEs)BLCr(Cr(VI))BLBlack glue cap (Microphone)HgBLCdBLCopper shell (Microphone)CdBLCopper shell (Microphone)CdBLCopper shell (Microphone)GdBLCopper shell (Microphone)GdBLCopper shell (Microphone)GdBLCdBLCdBLCdBLCdBLCr(Cr(VI))BLBCCdBL <tr< td=""><td>Black plastic headset seat (Circuit board)PbBL/GdBL/(Circuit board)Cr(Cr(VI))BL/Black glue cap (Microphone)PbBL/Black glue cap (Microphone)HgBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)Cr(Cr(VI))BL/Copper shell (Microphone)CdBL/Copper shell (Microphone)CdBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)GdBL/PbBL//Copper shell (Microphone)FPBS&PBDEs)//Vibration film (Microphone)PbBL/Vibration film (Microphone)PbBL/White plastic ring (Microphone)PbBL/Metal ring (Microphone)HgBL/Mite plastic ring (Microphone)PbBL/PbBL//PbBL//CdBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//</td></tr<>	Black plastic headset seat (Circuit board)PbBL/GdBL/(Circuit board)Cr(Cr(VI))BL/Black glue cap (Microphone)PbBL/Black glue cap (Microphone)HgBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)Cr(Cr(VI))BL/Copper shell (Microphone)CdBL/Copper shell (Microphone)CdBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)GdBL/Copper shell (Microphone)GdBL/PbBL//Copper shell (Microphone)FPBS&PBDEs)//Vibration film (Microphone)PbBL/Vibration film (Microphone)PbBL/White plastic ring (Microphone)PbBL/Metal ring (Microphone)HgBL/Mite plastic ring (Microphone)PbBL/PbBL//PbBL//CdBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//PbBL//

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		Pb	BL	BCIL	
		Cd	BL	/	
43	PCB board	Hg	BCIBL	/	PASS
Bi	(Microphone)	Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	BCI-1	
	BCI	Pb	BL	/	
	Tin solder	Cd Cd	BL	1 18	TC
44	(Microphone)	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	
	BCIT	Br(PBBs&PBDEs)	1	/	
		Pb	BL	BOLC	
45	Red line skin (Microphone)	Cd	BL	/	
		Hg	STC BL	/	PASS
77.0		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
	BCIL	Pb	BL	/	
	Wing a see	Cd	BL	1 0010	
46	(Microphone)	BC Hg	BL	/	PASS
	(interoptione)	Cr(Cr(VI))	BL	/	051
RCT		Br(PBBs&PBDEs)	10	/	Dec.
47		Pb	BL		
	BULL BCI	Cd	BL	/	
	Black line skin (Microphone)	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/	W1.
		Br(PBBs&PBDEs)	BL	/	

Lab:Shenzhen BCTC Testing Co.,Ltd.

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RCT

			100		
Tested Item(s)		Results Unit (mg/kg)			
OTTO		1-47		BC	C.
Di-isobutyl phthalate(DIBP)					
CAS #:84-69-5		N.D.			
Dibutyl phthalate(DBP)		ND			
CAS #:84-74-2	RCTC	N.D.	BCTC		
Benzylbutyl phthalate(BBP)			10 C		100
CAS #:85-68-7	11	ETC N.D.			BETC
Bis(2-ethyl(hexyl) phthalate)(DEHP)	P	ND			
CAS #:117-81-7		N.D.	1C		
BCTC		20			

Note:

SCTC

-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.

BETC

BCIC

RETC

BCIC

BETC

BCTC

BCTC

-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.

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Test Report

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Photo(s) of the tested component(s)



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