

TEST REPORT

Report No.: BCTC2309330755R

Applicant: Shenzhen Enimei Tech Co., Ltd

Product Name: Beauty massager

Product Type: GP220

Tested Date: 2023-09-18 to 2023-09-25

Issued Date: 2023-09-26

Shenzhen BCTC Testing Co., Ltd.



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Product Name	Beauty massager					
Product Type	GP220					
Additional Type	GP220A, GP220B, GP300, GP310, GP320, GP330, GP340, GP350, GP360, GP370, GP380					
Applicant	henzhen Enimei Tech Co., Ltd					
Address	2 / F, Building D, Shuangli Science Park, 45 South Longling Road, Pingdi Street, Longgang District, Shenzhen.					
Manufacturer	Shenzhen Enimei Tech Co., Ltd					
Address	2 / F, Building D, Shuangli Science Park, 45 South Longling Road, Pingdi Street, Longgang District, Shenzhen.					
Trademark						
Sample Received Date	2023-09-18					
Test Type	Entrustment Test					
Test Method	Please refer to the following page(s).					
Test Requested	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 sample(s). 3. As specified by client, to test the Diisobutyl phthalate(DIBP), Dibutyl phthalate(DBP), Butyl benzyl phthalate(BBP), Bis(2-ethylhexyl) phthalate(DEHP) in the submitted sample(s).					
Test Standard	RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863					
Test Result	The samples were tested according to the entrusted requirements and test standard, and the test items of the test samples were qualified.					
Prepared by:	Bear Approved by: Saher Chen Saher Chen					

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Test Method:

A. Screening test by XRF spectroscopy

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

	Screening limits of IEC 623	MDL		
Element	Polymers and metals Composite material		Polymers	Other material
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(1500+3σ)≤ol<>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(150+3σ)≤ol<>	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<(1500+3σ)≤ol<>	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<></td></x<>	BL≤(500-3σ) <x< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<>	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ) <x< td=""><td>BL≤(250-3σ)<x< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<></td></x<>	BL≤(250-3σ) <x< td=""><td>10 mg/kg</td><td>50 mg/kg</td></x<>	10 mg/kg	50 mg/kg

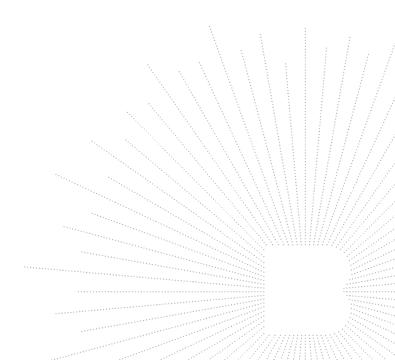
Note:

- -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
- -"--" = Not regulated.









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B. Chemical Test

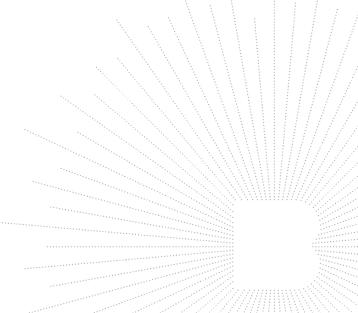
Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Llove velent Chromium Cr(\(/I)\)	IEC 62321-7-1:2015 Ed.1.0	111/1/10		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	HPLC-UV	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	HPLC-UV	5 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg











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Test Result(s):

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
NO.	Description	Pb	BL	/ (mg/kg)	
		Cd	BL	/	•
1	Black plastic		BL	/	PASS
'	DIACK PIASTIC	Hg Cr(Cr(VI))	BL	/	PASS
			BL	/	•
		Br(PBBs&PBDEs) Pb	BL	/	
	VA/Initia and and in	Cd	BL	/	DAGO
2	White plastic	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	1	
		Pb	BL	1	
		Cd	BL	1	
3	White plastic	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	BL	1	
		Pb	BL	1	
		Cd	BL	1	
4	Yellow FPC	Hg	BL	1	PASS
		Cr(Cr(VI))	48806	N.D.	
		Br(PBBs&PBDEs)	BL	1	
		Pb	BL	1	
		Cd	BL	\/ I ;	
5	Tin solder	Hg	BL	Ž,	PASS
		Cr(Cr(VI))	BL		
		Br(PBBs&PBDEs)	1		
		Pb	BL \		
		Cd	BL	1	
6	Black wire	Hg	BL		PASS
	jacket	Cr(Cr(VI))	BL		
		Br(PBBs&PBDEs)	BL	A Comment	
		Pb	BL	1	
		Cd	BL	I	
7	Red wire jacket	Hg	BL		PASS
	,	Cr(Cr(VI))	-BL		
		Br(PBBs&PBDEs)	BL	**************************************	

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Pb BL		T			T	
Blue wire jacket Hg					1	
Cr(Cr(VI)) BL			Cd	BL	1	
Br(PBBs&PBDEs) BL	8	Blue wire jacket	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
Solver metal Cd			Br(PBBs&PBDEs)	BL	1	
Solver metal Hg			Pb	BL	1	
Cr(Cr(VI)) BL			Cd	BL	1	
Br(PBBs&PBDEs) BL	9	Black plastic	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
Cd			Br(PBBs&PBDEs)	BL	1	
10			Pb	BL	1	
Cr(Cr(VI)			Cd	BL	1	
Br(PBBs&PBDEs)	10	Silver metal	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	171319	Negative	
11			Br(PBBs&PBDEs)	1	1	
11			Pb	BL	/	
11		Marita a da a	Cd	BL	1	
Cr(Cr(VI)) BL	11		Hg	BL	1	PASS
Br(PBBs&PBDEs) BL		јаскет	Cr(Cr(VI))	BL	1	
12 White plastic Cd				BL	1	
12			Pb	BL	1	
Cr(Cr(VI) BL			Cd	BL	1	
Cr(Cr(VI) BL	12	White plastic	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
Pb				BL	1	
13 Silver metal Hg				BL	\/	
Cr(Cr(VI) BL			Cd	BL	1	
Cr(Cr(VI)) BL	13	Silver metal	Hg	BL	1	PASS
Br(PBBs&PBDEs)			Cr(Cr(VI))	BL .		
Pb				1		
14 Green PCB Hg BL / PASS Cr(Cr(VI)) BL / / BL / </td <td></td> <td></td> <td></td> <td>BL.</td> <td>XXX</td> <td></td>				BL.	XXX	
14 Green PCB Hg BL / PASS Cr(Cr(VI)) BL / / BL / / / C C / / / ASS / / ASS / / ASS / ASS <td< td=""><td></td><td></td><td>Cd</td><td>BL</td><td>1</td><td></td></td<>			Cd	BL	1	
Cr(Cr(VI)) BL	14	Green PCB	Hg	BL	1	PASS
Br(PBBs&PBDEs) BL				BL	1	
Pb BL ////////////////////////////////////					1	
Cd BL Image: Bl control of the property of the proper					1	
15 Tin solder Hg BL ////////////////////////////////////				***************************************	1	
Cr(Cr(VI)) BL	15	Tin solder			1	PASS
					1	

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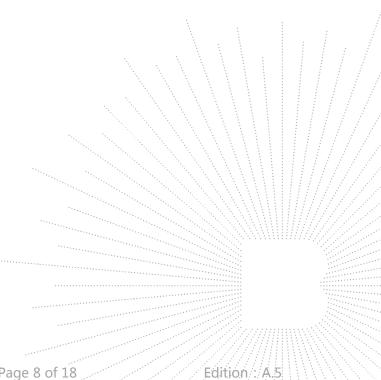
Pb BL						
16			Pb	BL	1	
Cr(Cr(VI)) BL					1	
Br(PBBs&PBDEs) BL	16	SMD LED		BL	1	PASS
Pb				BL	1	
Silver metal spring			Br(PBBs&PBDEs)	BL	1	
Silver metal spring			Pb	BL	1	
Total		Silver metal	Cd	BL	1	
Br(PBBs&PBDEs)	17		Hg	BL	1	PASS
Pb		Spring	Cr(Cr(VI))	131950	Negative	
The image			Br(PBBs&PBDEs)	1	1	
Black foam			Pb	BL	1	
Cr(Cr(VI)) BL			Cd	BL	1	
Br(PBBs&PBDEs) BL	18	Black foam	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
19			Br(PBBs&PBDEs)	BL	1	
19 White PCB			Pb	BL	1	
Cr(Cr(VI)) BL		19 White PCB	Cd	BL	1	
Br(PBBs&PBDEs) 324 N.D.	19		Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
Cd			Br(PBBs&PBDEs)	324	N.D.	
Aluminum shell			Pb	BL	1	
Cr(Cr(VI) BL			Cd	BL	1	
Br(PBBs&PBDEs)	20	Aluminum shell	Hg	BL	1	PASS
Pb			Cr(Cr(VI))	BL	1	
Cd BL / PASS			Br(PBBs&PBDEs)	1	1	
21 Gray magnet Hg BL / PASS Cr(Cr(VI)) BL /<			Pb	BL	M	0 0 0 0 0 0
Cr(Cr(VI)			Cd	BL	, A	
Br(PBBs&PBDEs)	21	Gray magnet	Hg	BL		PASS
Pb BL			Cr(Cr(VI))	BL 🦠		
Cd BL / PASS			Br(PBBs&PBDEs)	1		
22 Copper coil Hg BL / PASS Cr(Cr(VI)) BL /<			Pb	BL		
Cr(Cr(VI)) BL / Br(PBBs&PBDEs) / / Pb BL / Cd BL / Cd BL / PASS Cr(Cr(VI)) BL /			Cd	BL	1	
Br(PBBs&PBDEs)	22	Copper coil	Hg	BL	1	PASS
23 IC			Cr(Cr(VI))	BL	1	
23 IC Cd BL / PASS Cr(Cr(VI)) BL / PASS			Br(PBBs&PBDEs)		1	
23 IC Hg BL / PASS Cr(Cr(VI)) BL			Pb	·BL	1	
Cr(Cr(VI)) BL			Cd	BL	1	
Cr(Cr(VI)) BL	23	IC	Hg	BL		PASS
			Cr(Cr(VI))	BL	1	
				BL	1	

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		Pb	BL	1	
		Cd	BL	1	
24	Silver metal	Hg	BL	1	PASS
		Cr(Cr(VI))	154723	Negative	
		Br(PBBs&PBDEs)	1	1	
		Pb	BL	1	
		Cd	BL	1	
25	Gold metal	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	1	
		Br(PBBs&PBDEs)	1	1	

Tested Item(s)	Results Unit (mg/kg)							
	1	2	3	4	6	7	8	9
Diisobutyl phthalate(DIBP) CAS No.:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl phthalate(DBP) CAS No.:84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate(BBP) CAS No.:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Bis(2-ethylhexyl) phthalate(DEHP) CAS No.:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.



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Tested Item(s)	Results Unit (mg/kg)							
	11	12	14	16	18	19	23	
Diisobutyl phthalate(DIBP) CAS No.:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibutyl phthalate(DBP) CAS No.:84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Butyl benzyl phthalate(BBP) CAS No.:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis(2-ethylhexyl) phthalate(DEHP) CAS No.:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Note:

- -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.
- -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:

- -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.

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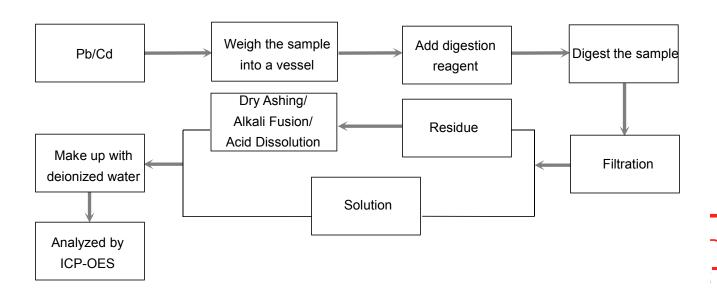
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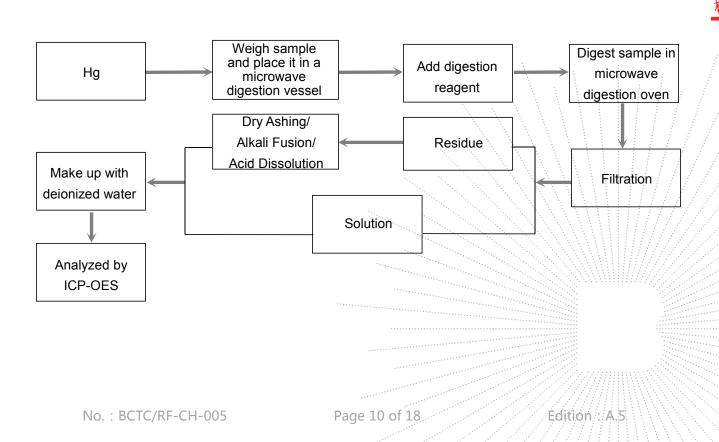
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

♦IEC 62321-5:2013 Ed.1.0

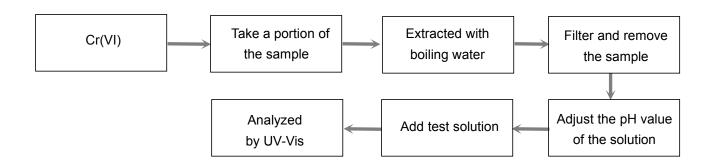


♦IEC 62321-4:2013+AMD1:2017

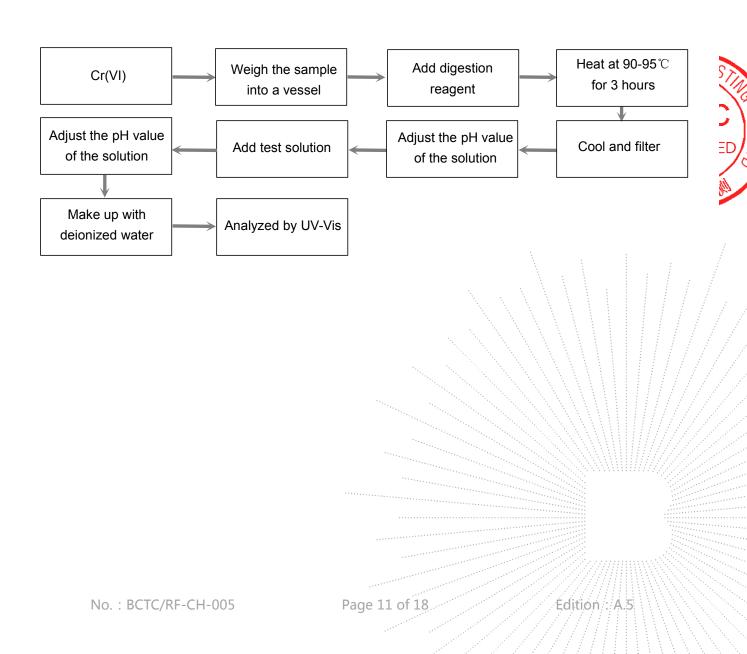




♦IEC 62321-7-1:2015 Ed.1.0

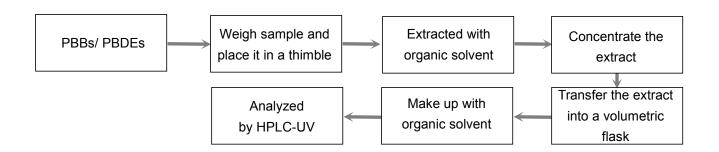


♦IEC 62321-7-2:2017 Ed.1.0

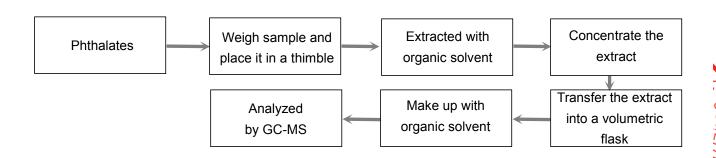


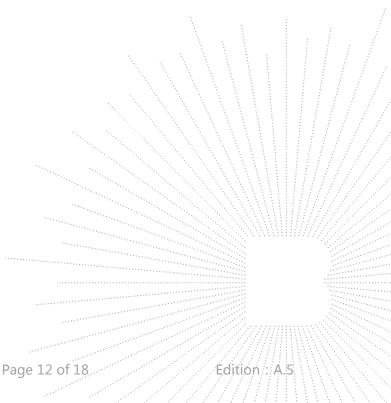


♦IEC 62321-6:2015 Ed.1.0



♦IEC 62321-8:2017 Ed.1.0





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Photograph of Sample

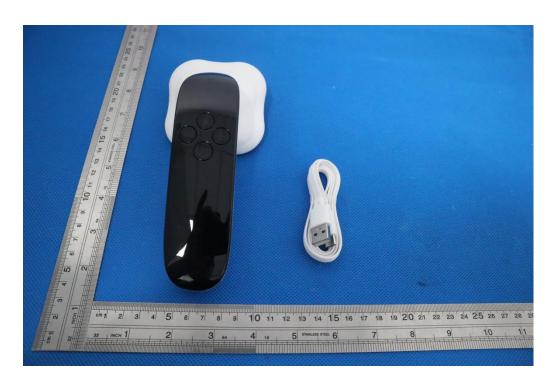


Fig.1



Fig.2

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Photo(s) of the tested component(s)



Fig.3

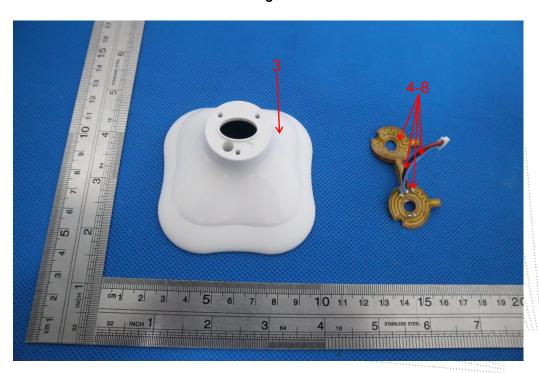


Fig.4

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Fig.5

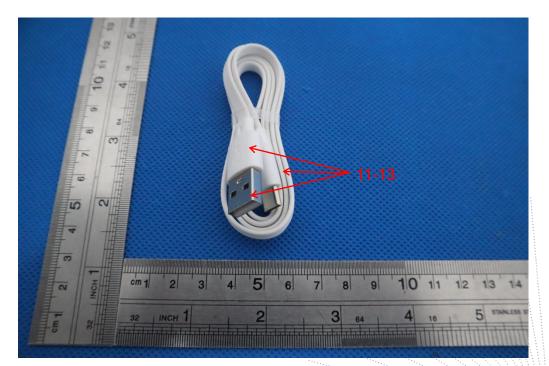


Fig.6

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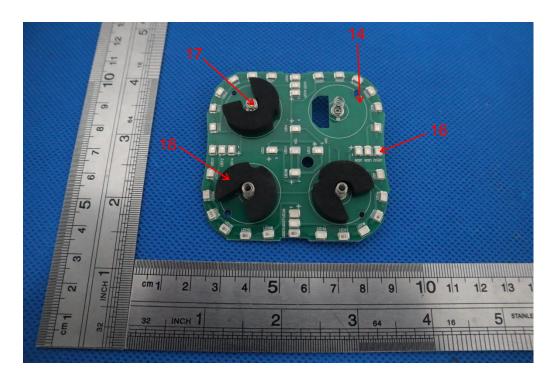


Fig.7



Fig.8

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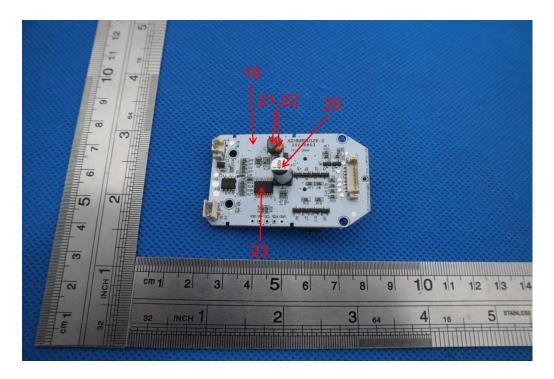


Fig.9



Fig.10

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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

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