Report No.: HUAX250428084KR



## **TEST REPORT**

**Applicant** Tianchang Jinjie Electronics Co., Ltd

**Address** Union village Qinlan Town Tianchang City Anhui Provice HUAX TESTING

Report on the submitted sample said to be:

INTELLIGENT PULSE REPAIR Sample name

Model XJB1210-2

**Trade Mark** N/A

Manufacturer

Union village Qinlan Town Tianchang City Anhui Provice
Shenzhen Huaxiang Testing Co Address

**Testing laboratory** 

1st Floor, Building A1, No. 2082 Jincheng Road, Shajing Street, Bao'an **Test address** 

District, Shenzhen City, Guangdong Province

Sample received date Apr. 24, 2025

**Testing period** Apr. 24, 2025 - Apr. 28, 2025

Test Requested:	Conclusion :.
The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863and (EU)2017/2102 amending Annex II to Directive 2011/65/EU — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP),	Pass
Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	

HURX	Drafted By:		kevin b
	Approved By:	(Kevin su)	and Trang
Ris = 5		LAB Manager: Amy ji	ang
	Date:	Apr. 28, 2025	

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 1 of 15



#### **Test Part Description:**.

est Fait Descri	<del>perorini</del>	170	77
Specimen No.	Description.		
1	Cable sheath		
2	Red plastic	·C	
3 5	Screw	GTING	/Ć
4	Black plastic	XTEO	NX TEC
5	PCB	HOM	HOM
6	Capacitance		
7	Transformer		
8	Metal	NG	
9 (5)	White line	ESTINE	-25
10	Black line	XALL	TALL
11	Capacitance	Ho.	Ho.
12	Diode tube		
13	Black plastic		
14	White ribbon cable	ING	
15 (5)	Screen	TEST	TES
16	Chip	LIVEY	MAN
17	Orange plastic	77	7
18	Red plastic		
19	Yellow plastic		
-1	NG ING	TING	HUAXTES

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 2 of 15





#### **TEST RESULT:**

1.Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs—RoHS Directive (EU) 2015/863.

	I Init		Result								1 ::4
Test Items	Unit	Test Method	1	2	3	4	5	6	7	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2017,ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	µg/cm²	IEC 62321-7-1:2015, UV-VIS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	0.10
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<u>_</u> _5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<b>5</b>	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	- ,
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Sum of PBBs	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Sum of PBDEs	mg/kg	JAG	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1C-	1000

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 3 of 15



6711		67/1		-671	-071	1					
Test Items	Unit Test Method	IT	E		Resul	lt	VI	ES	MDL	Limit	
restitents	Oilit	rest wethou	8	9	10	11	12	13	14	INIDL	Lillin
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2017,ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	µg/cm²	IEC 62321-7-1:2015, UV-VIS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	0.10
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	. 5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<u>\$</u> 5	-
Sum of PBBs	mg/kg	(TEST	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	- ,
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	- 1
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Sum of PBDEs	mg/kg	Ho. Ho	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1000

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 4 of 15



-GN		-911		- / / /			-GV		1
Test Items	Unit Test Method				Result		YTES		Limit
Tostitoms	Oiiit	Tool Method	15	16	17	18	19	MDL	
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2017,ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	N.D.	N.D.	N.D.	2	100
Hexavalent Chromium	µg/cm²	IEC 62321-7-1:2015, UV-VIS	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	0.10
(CrVI)		, ax The	XTE			tai	TE		
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	- '
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	. 5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	\C5	-
Sum of PBBs	mg/kg	TEST.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	- ,
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Pentabromodiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
ether		XTES	XTE	D .			LES.		
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Heptabromodiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
ether									
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	N.D.	N.D.	N.D.	5	-
Sum of PBDEs	mg/kg	HOLE HO	N.D.	N.D.	N.D.	N.D.	N.D.	-	1000
-			-	•			•		

#### Note:

- 1. mg/kg = milligram per kilogram = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not Regulated
- 5. Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is less than  $0.10\mu g$  with  $1cm^2$  sample surface area. Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than  $0.13\mu g$  with  $1cm^2$  sample surface area.

Inconclusive =the detected concentration in boiling-water-extraction solution is greater than 0.10µg and less than 0.13µg with 1cm² sample surface area.

- 6. Positive = result be regarded as not comply with RoHS requirement
- 7. Negative = result be regarded as comply with RoHS requiremen

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 5 of 15



Report No.: HUAX250428084KR



# 2. <u>Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive (EU) 2015/863.</u>

Test method: With reference to IEC 62321-8:2017\*, analysis was performed by GC-MS.

Test Items	Unit	Unit Result MDL								Limit
restitens	SILL	1	2	4	13	17	18	19	IVIDE	LIIIII
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000

#### Note:

- 1. mg/kg = milligram per kilogram = ppm
- 2. N.D. = Not Detected (<MDL)
- 3. MDL = Method detection limit
- 4. "\*"=The test method of Phthalates is not authorized by CNAS

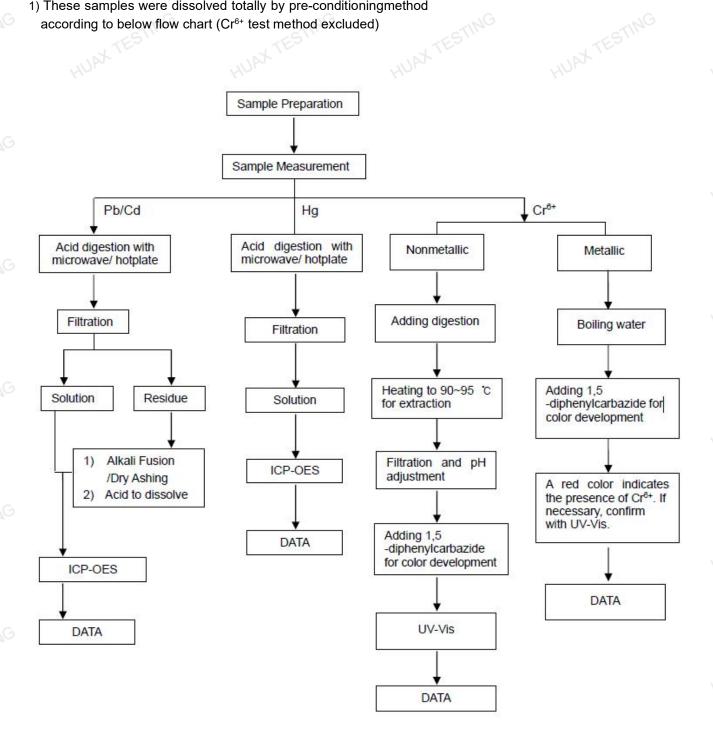
Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 6 of 15



#### FLOW CHART FOR ROHS TESTING:

#### Pb/Cd/Hg/Cr6+ Testing Flow Chart

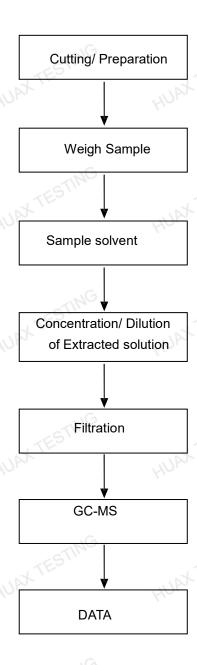
1) These samples were dissolved totally by pre-conditioningmethod according to below flow chart (Cr6+ test method excluded)



Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 7 of 15

Chenznen Huar

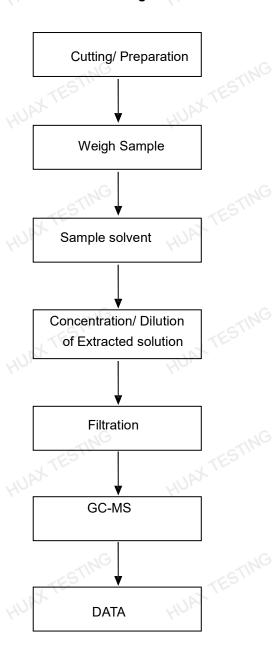
### PBBs/PBDEs Testing Flow Chart



Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 8 of 15

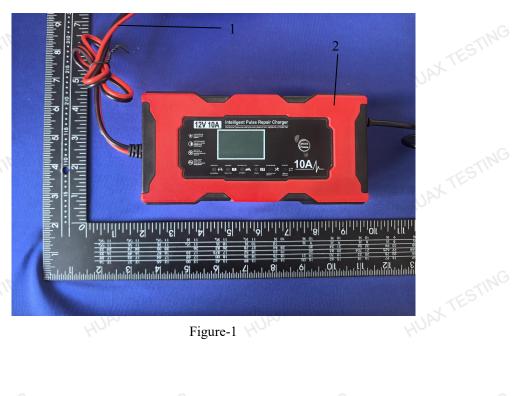


#### **Phthalates Testing Flow Chart**



Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 9 of 15

#### **PHOTOGRAPH OF SAMPLE:**





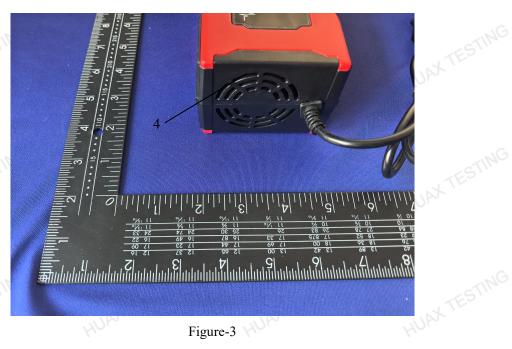


Figure-3



Figure-4

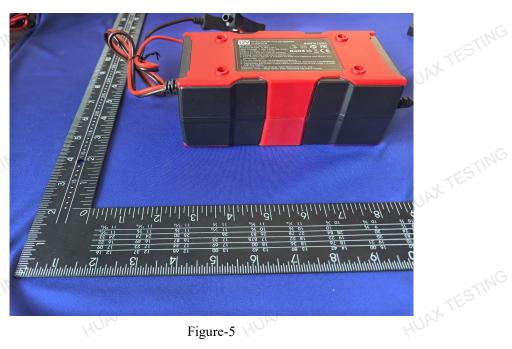
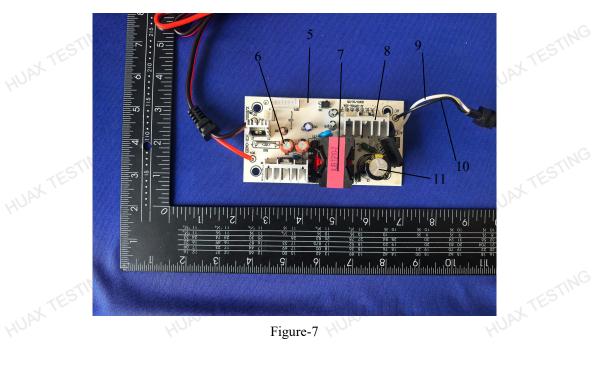
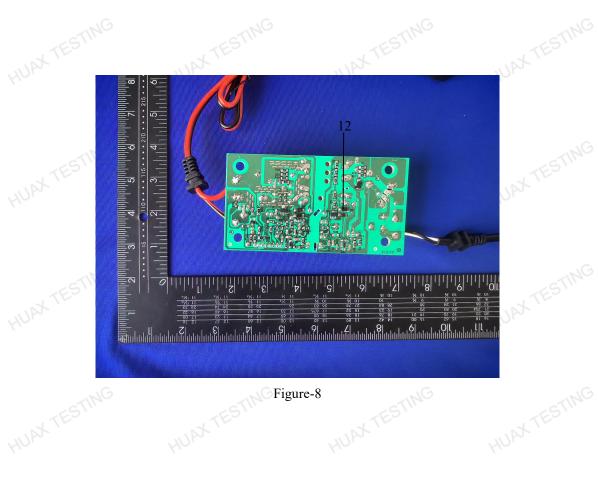


Figure-5



Figure-6





20/09/00, 175/



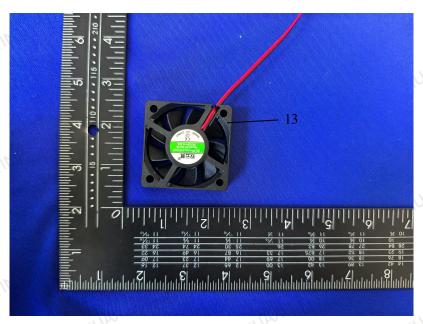


Figure-9

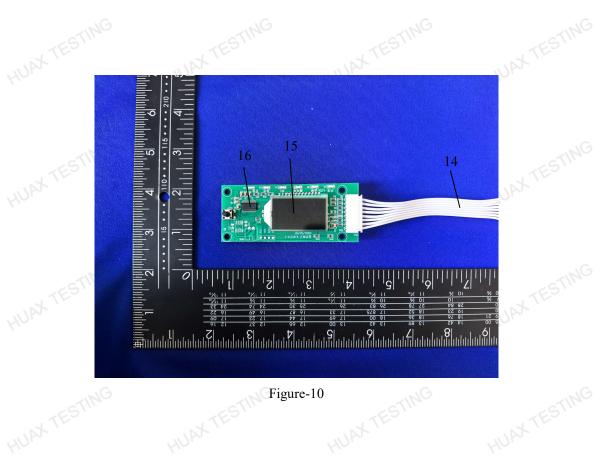
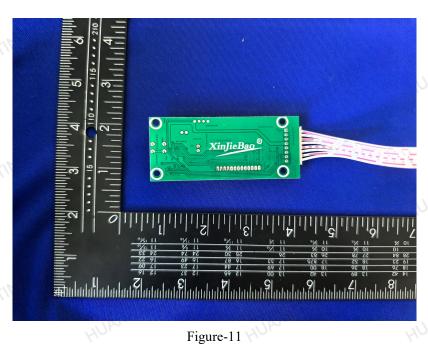


Figure-10





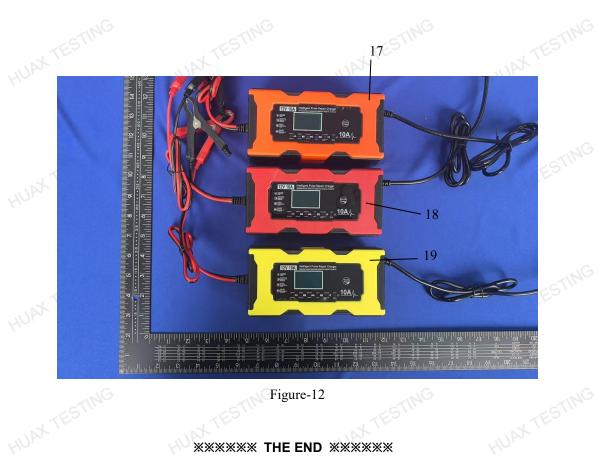


Figure-12

#### \*\*\*\*\* THE END \*\*\*\*\*

Email: huaxiang@hua-x.com Page 15 of 15 Web: www.hua-x.com Tel: 0755-23010432