



Test Report
检测报告

No.: S240226015001-1
编号: S240226015001-1

Date: Mar 13, 2024
日期: 2024年03月13日

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Customer: Dongguan Rico Electronic Co.,Ltd

客户名称: 东莞市亮瑞电子有限公司

Customer Address: Area 301,Building1,No. 3 Hengli Nanhuan Road, Hengli Town, Dongguan, Guangdong,
PEOPLE'S REPUBLIC OF CHINA

客户地址: 广东省东莞市横沥镇横沥南环路3号1号楼301室

Sample Name: LED Power Supply AC/DC ADAPTER

样品名称: LED电源AC/DC ADAPTER AC/DC适配器

Manufacturer: Dongguan Rico Electronic Co.,Ltd

制造商: 东莞市亮瑞电子有限公司

Manufacturer Address: Area 301,Building1,No. 3 Hengli Nanhuan Road, Hengli Town, Dongguan,

制造商地址: Guangdong, PEOPLE'S REPUBLIC OF CHINA

广东省东莞市横沥镇横沥南环路3号1号楼301室

The above samples and information are provided by the customer

以上样品及信息由客户提供

Sample Received Date: Feb 26, 2024

样品接收日期: 2024年02月26日

Test Period: Feb 26, 2024 to Mar 13, 2024

检测周期: 2024年02月26日至2024年03月13日

Test Requirements: Test according to customer requirement.

检测要求: 根据客户要求检测.

Test Method: Please refer to next page(s).

检测方法: 请参见下一页

Test Result: Please refer to next page(s).

检测结果: 请参见下一页

WRITTEN BY

Zoey Zhang

张亚婷 Zoey Zhang

REVIEWED BY

Kira Fu

符克霞 Kira Fu

Soar Testing Certification
(GuangDong) Co., Ltd.



批准签署人 Approved signatory

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Lab name: Soar Testing Certification (GuangDong) Co., Ltd.
Post Code: 523945

Tel: (86-769) 38937518

Address: Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
E-mail: service@soar-cert.com

Website: http://www.soartestlab.com



Result Summary:

检测结果概要:

Test Requested 检测要求	Conclusion 结论
1. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 1. RoHS 指令 2011/65/EU 附录 II 的修正指令(EU)2015/863 —Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content —铅、汞、镉、六价铬、多溴联苯和多溴二苯醚含量 —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content —邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸苯基丁酯(BBP)、 邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)含量	PASS 符合 PASS 符合

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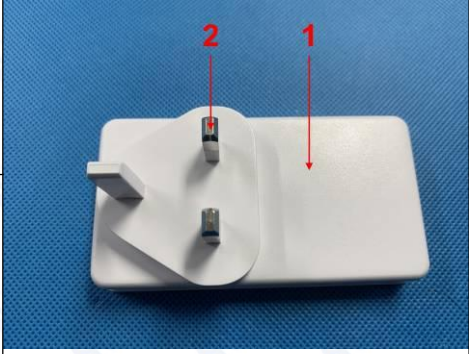
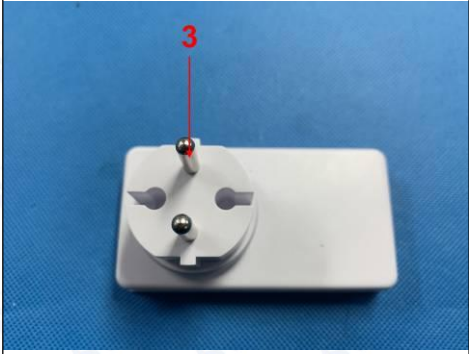
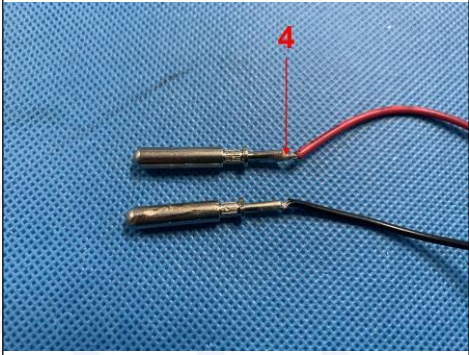
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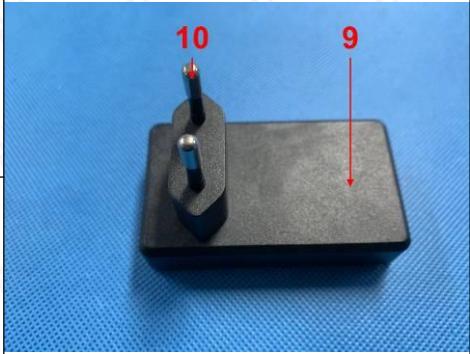
Website: http://www.soartestlab.com

2. Test Item Description And Photo List

测试项目描述和样品照片清单

Sample No. 样品编号	Description 描述	Photograph 图示
001	White plastic 白色塑胶	
002	Silvery metal 银色金属	
003	Silvery metal 银色金属	
004	Silvery solder 银色焊锡	


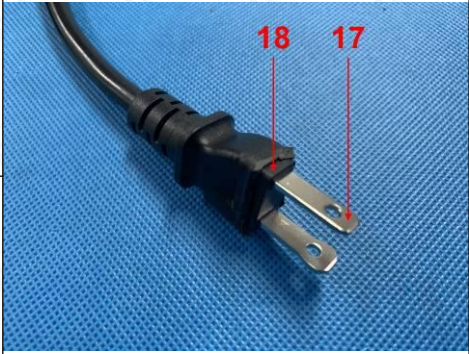
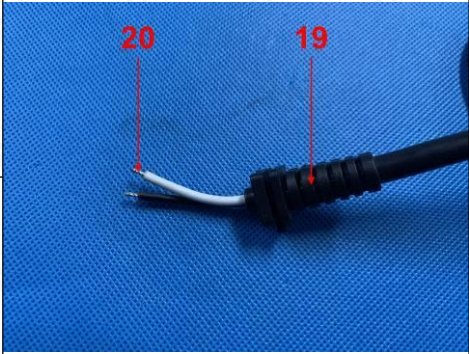
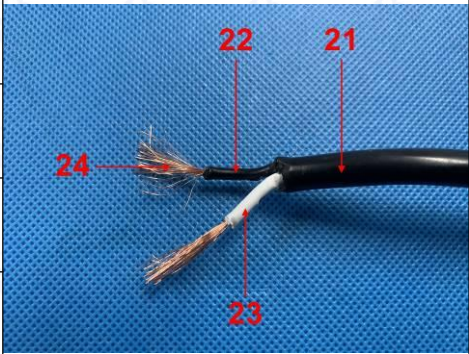
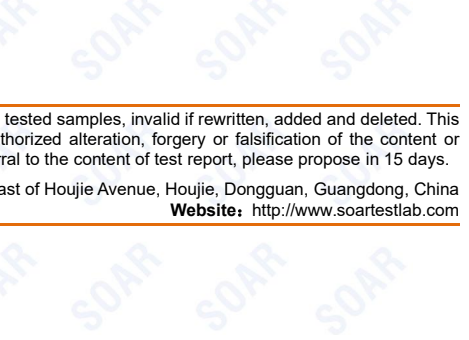
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Sample No. 样品编号	Description 描述	Photograph 图示
005	Silvery solder 银色焊锡	
006	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
007	Red soft plastic (wire jacket) 红色软塑胶 (电线外皮)	
008	Silvery metal (wire core) 银色金属 (线芯)	
009	Black plastic 黑色塑胶	
010	Silvery metal 银色金属	
011	Silvery metal 银色金属	

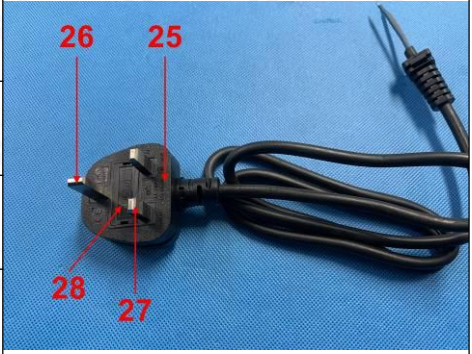

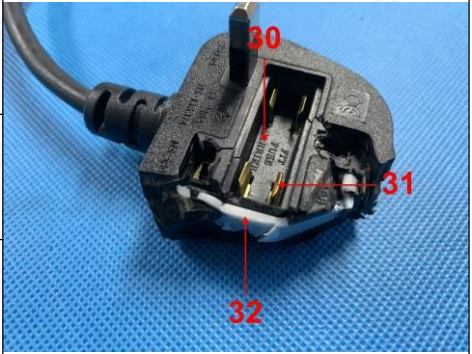
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Sample No. 样品编号	Description 描述	Photograph 图示
012	Silvery metal 银色金属	
013	Silvery solder 银色焊锡	
014	Silvery metal 银色金属	
015	Silvery metal 银色金属	

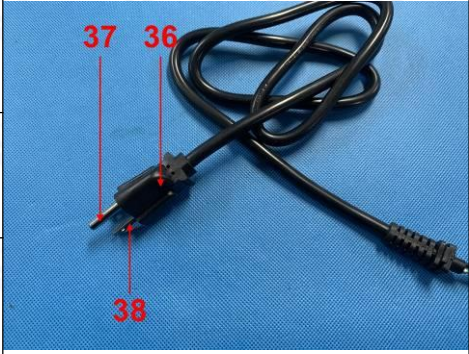
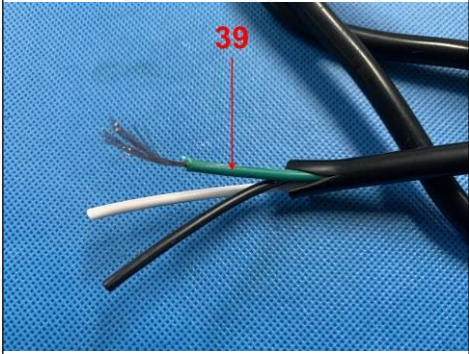

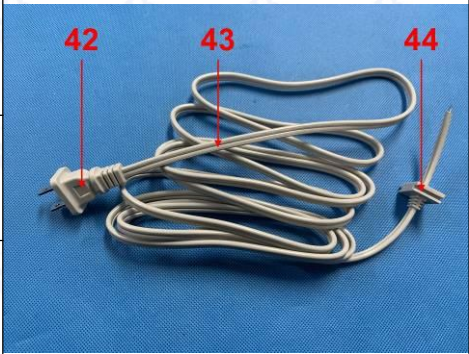
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Sample No. 样品编号	Description 描述	Photograph 图示
016	Black soft plastic 黑色软塑胶	
017	Silvery metal 银色金属	
018	Black plastic 黑色塑胶	
019	Black soft plastic (tail card) 黑色软塑胶 (尾卡)	
020	Silvery solder 银色焊锡	
021	Black soft plastic (cable jacket) 黑色软塑胶 (电缆外皮)	
022	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
023	White soft plastic (wire jacket) 白色软塑胶 (电线外皮)	
024	Copper metal (wire core) 铜色金属 (线芯)	

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Sample No. 样品编号	Description 描述	Photograph 图示
025	Black soft plastic 黑色软塑胶	
026	Silvery metal 银色金属	
027	Silvery metal 银色金属	
028	Black plastic 黑色塑胶	
029	White body 白色本体	
030	Black plastic 黑色塑胶	
031	Golden metal 金色金属	
032	White plastic 白色塑胶	
033	Black soft plastic (cable jacket) 黑色软塑胶 (电缆外皮)	
034	Brown soft plastic (wire jacket) 棕色软塑胶 (电线外皮)	
035	Blue soft plastic (wire jacket) 蓝色软塑胶 (电线外皮)	

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Sample No. 样品编号	Description 描述	Photograph 图示
036	Black soft plastic 黑色软塑胶	
037	Silvery metal 银色金属	
038	Silvery metal 银色金属	
039	Green soft plastic (wire jacket) 绿色软塑胶 (电线外皮)	
040	Black soft plastic 黑色软塑胶	
041	Silvery metal 银色金属	
042	Grey soft plastic 灰色软塑胶	
043	Grey soft plastic (wire jacket) 灰色软塑胶 (电线外皮)	
044	Grey soft plastic (tail card) 灰色软塑胶 (尾卡)	

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Sample No. 样品编号	Description 描述	Photograph 图示
045	Silvery metal 银色金属	
046	Silvery metal 银色金属	
047	Black plastic 黑色塑胶	
048	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
049	Silvery metal 银色金属	

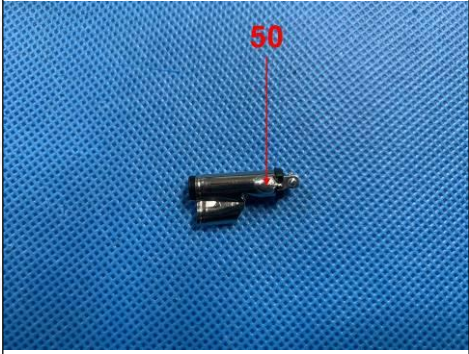
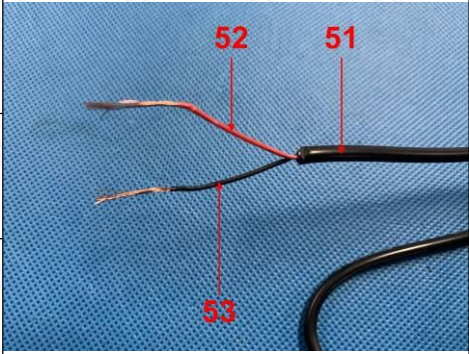
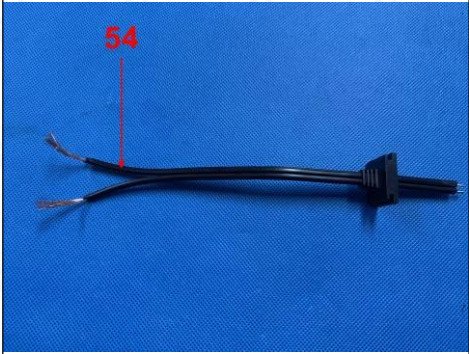
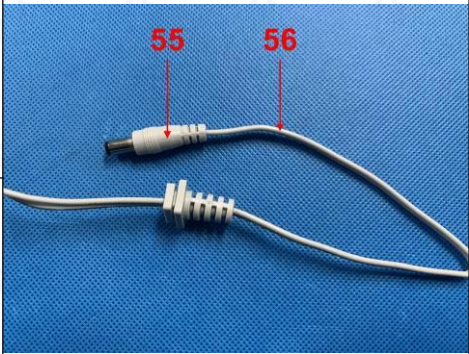
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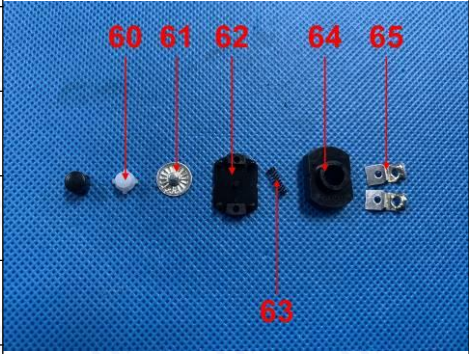
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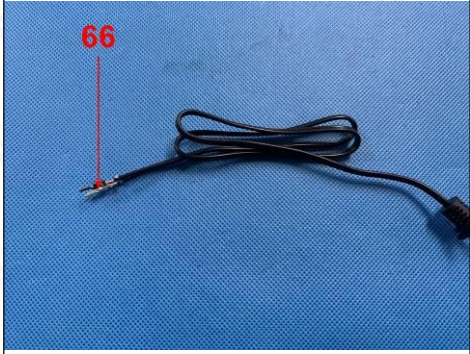
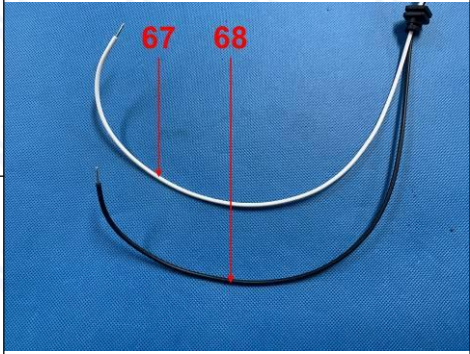
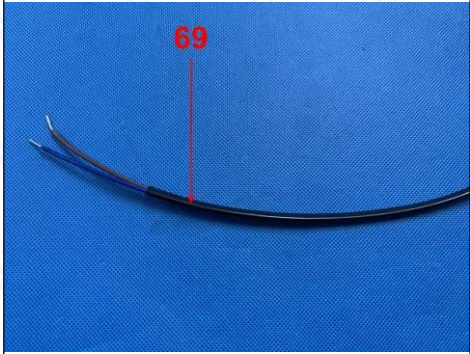
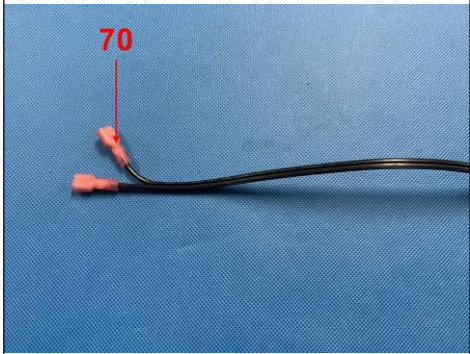
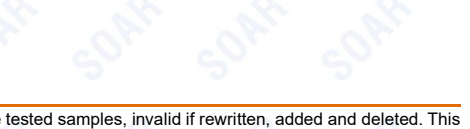
Website: <http://www.soartestlab.com>

Sample No. 样品编号	Description 描述	Photograph 图示
050	Silvery solder 银色焊锡	
051	Black soft plastic (cable jacket) 黑色软塑胶 (电缆外皮)	
052	Red soft plastic (wire jacket) 红色软塑胶 (电线外皮)	
053	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
054	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
055	Grey soft plastic 灰色软塑胶	
056	Grey soft plastic (wire jacket) 灰色软塑胶 (电线外皮)	

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Sample No. 样品编号	Description 描述	Photograph 图示
057	Yellow plastic 黄色塑胶	
058	Black plastic 黑色塑胶	
059	Black plastic 黑色塑胶	
060	White plastic 白色塑胶	
061	Silvery metal 银色金属	
062	Black plastic 黑色塑胶	
063	Silvery metal with black plating 银色金属带黑色镀层	
064	Black plastic 黑色塑胶	
065	Silvery metal 银色金属	

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Sample No. 样品编号	Description 描述	Photograph 图示
066	Silvery metal 银色金属	
067	White soft plastic (wire jacket) 白色软塑胶 (电线外皮)	
068	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
069	Black soft plastic (cable jacket) 黑色软塑胶 (电缆外皮)	
070	Pink plastic 粉色塑胶	

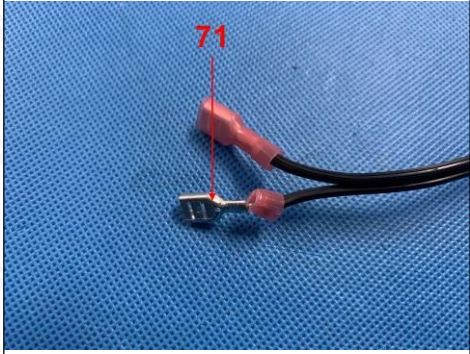
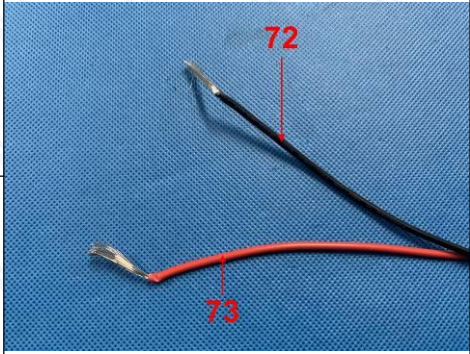
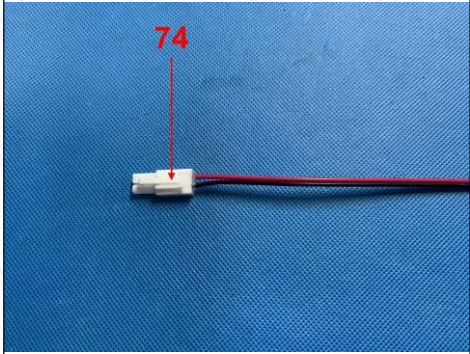
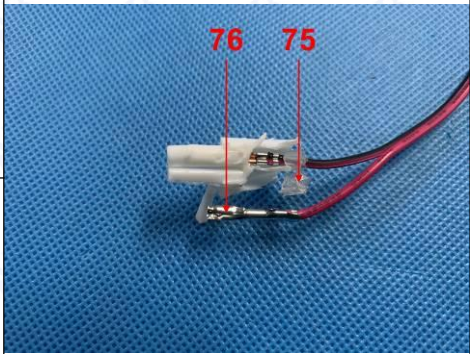
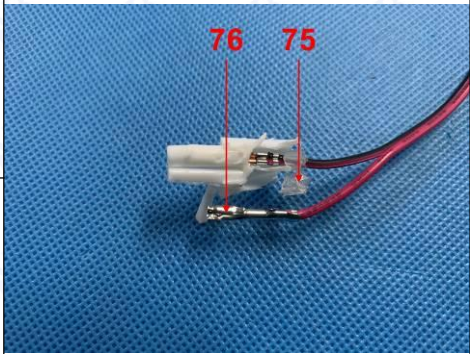
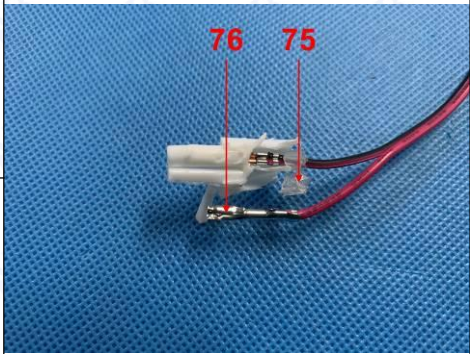
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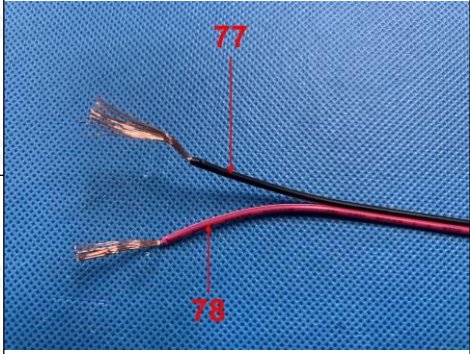
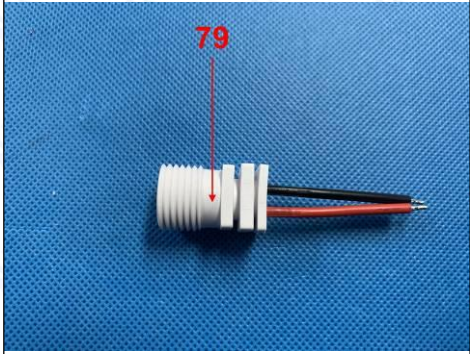
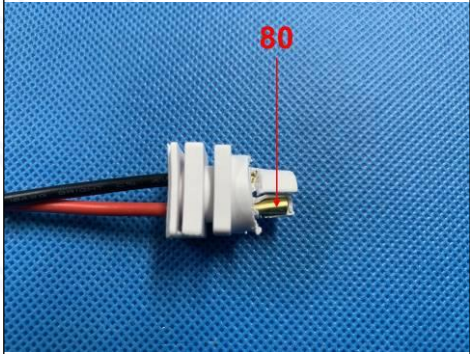
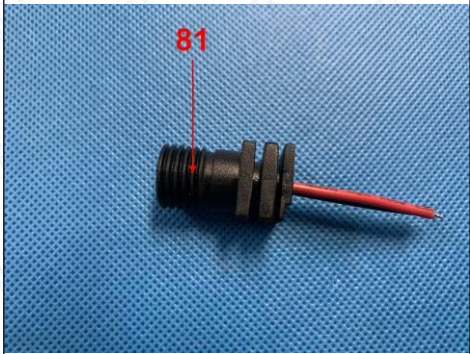
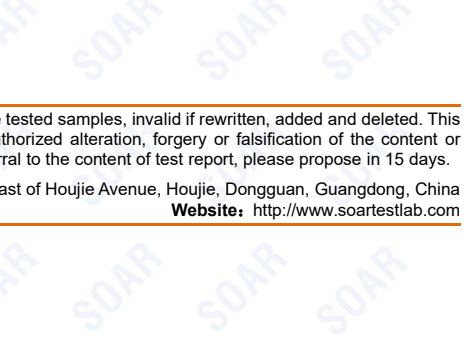
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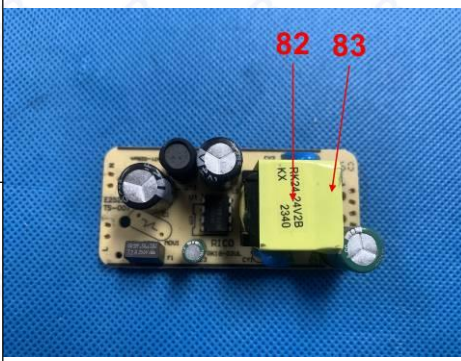

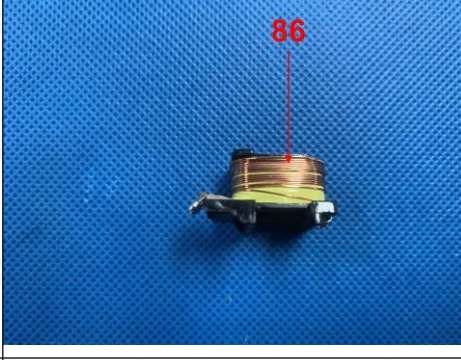
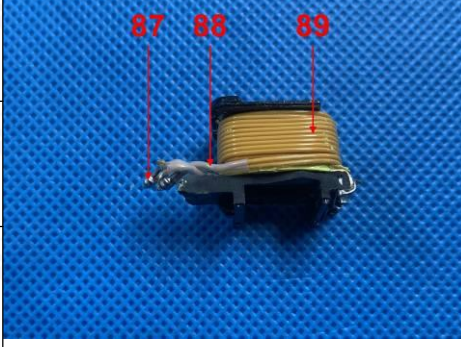
Website: <http://www.soartestlab.com>

Sample No. 样品编号	Description 描述	Photograph 图示
071	Silvery metal 银色金属	
072	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
073	Red soft plastic (wire jacket) 红色软塑胶 (电线外皮)	
074	White plastic 白色塑胶	
075	Transparent glue 透明胶	
076	Silvery metal 银色金属	

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Sample No. 样品编号	Description 描述	Photograph 图示
077	Black soft plastic (wire jacket) 黑色软塑胶 (电线外皮)	
078	Pink soft plastic (wire jacket) 粉色软塑胶 (电线外皮)	
079	White plastic 白色塑胶	
080	Golden metal 金色金属	
081	Black plastic 黑色塑胶	

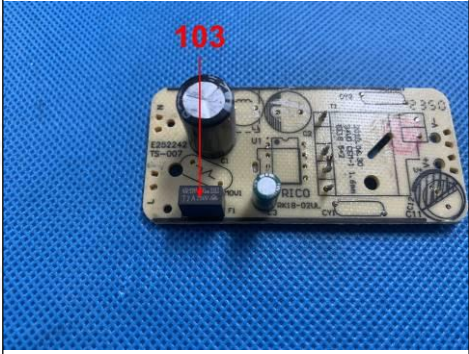
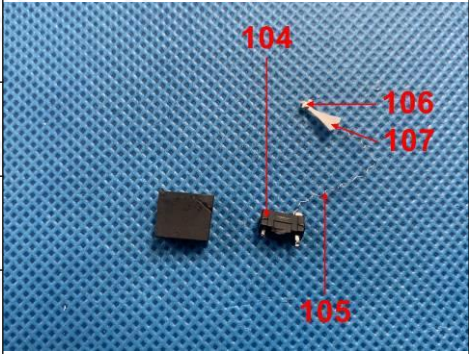
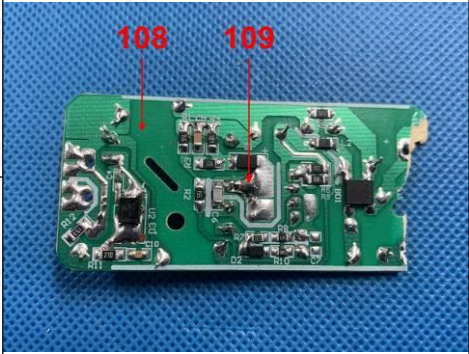
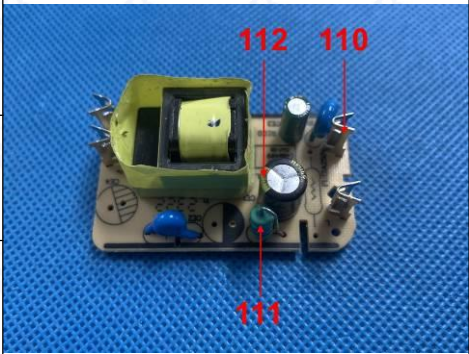
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Sample No. 样品编号	Description 描述	Photograph 图示
082	Transparent plastic with black printing 透明塑胶带黑色印刷	
083	Yellow plastic 黄色塑胶	
084	Grey magnet 灰色磁石	
085	Black plastic 黑色塑胶	
086	Copper metal 铜色金属	
087	Silvery solder 银色焊锡	
088	Transparent plastic 透明塑胶	
089	Yellow soft plastic 黄色软塑胶	

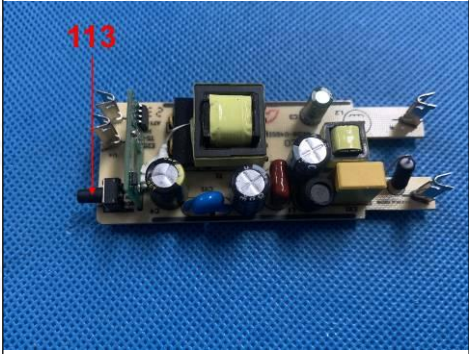
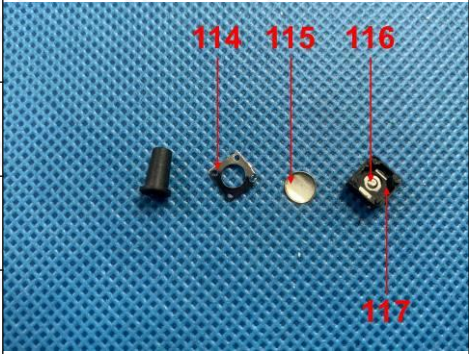
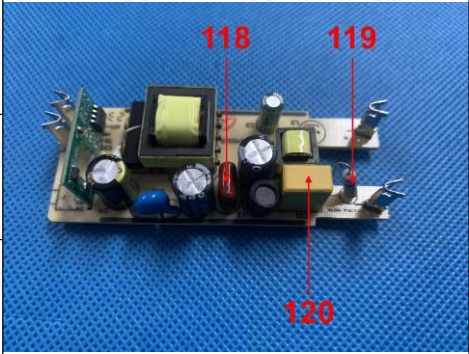
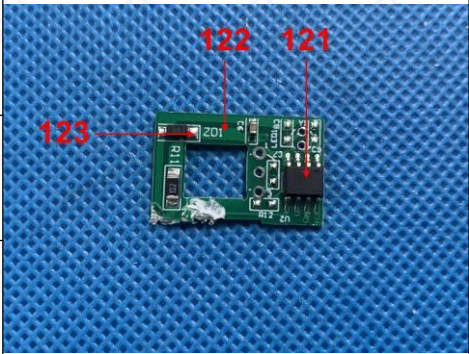
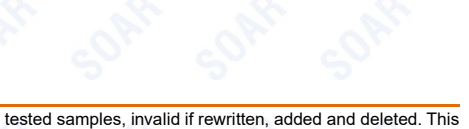
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Sample No. 样品编号	Description 描述	Photograph 图示
090	Green plastic with grey printing 绿色塑胶带灰色印刷	
091	Black plastic with grey printing 黑色塑胶带灰色印刷	
092	Silvery metal 银色金属	
093	Black rubber 黑色橡胶	
094	Beige paper 米色纸	
095	Silvery metal foil 银色金属箔片	
096	Grey metal foil 灰色金属箔片	
097	Silvery metal 银色金属	
098	Black soft plastic 黑色软塑胶	
099	Grey magnet 灰色磁石	
100	Copper metal 铜色金属	
101	Black body 黑色本体	
102	Blue body 蓝色本体	

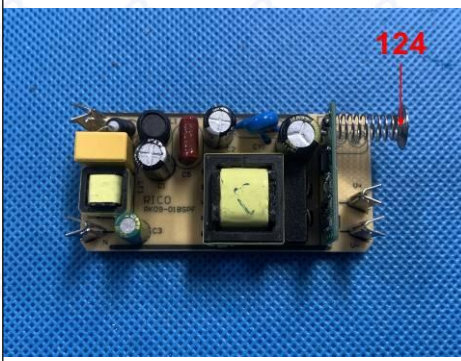
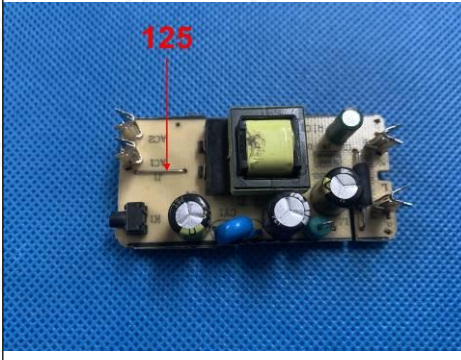

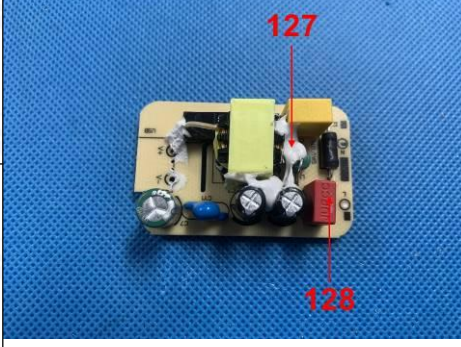
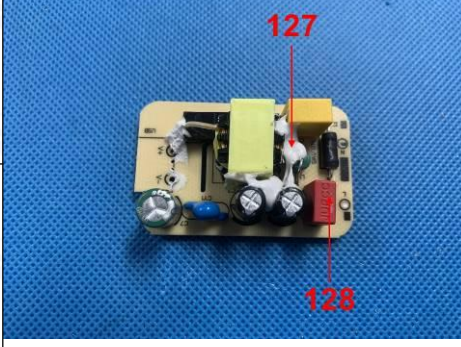
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Sample No. 样品编号	Description 描述	Photograph 图示
103	Black plastic 黑色塑胶	
104	Black plastic 黑色塑胶	
105	Silvery metal 银色金属	
106	Silvery metal 银色金属	
107	White fibre 白色纤维	
108	Green PCB 绿色 PCB	
109	Silvery solder 银色焊锡	
110	Silvery metal 银色金属	
111	Green body with colored printing 绿色本体带彩色印刷	
112	Black plastic with yellow printing 黑色塑胶带黄色印刷	

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Sample No. 样品编号	Description 描述	Photograph 图示
113	Black plastic 黑色塑胶	
114	Silvery metal 银色金属	
115	Silvery metal 银色金属	
116	Silvery metal 银色金属	
117	Black plastic 黑色塑胶	
118	Red body 红色本体	
119	Grey body with colored printing 灰色本体带彩色印刷	
120	Yellow plastic 黄色塑胶	
121	Black body 黑色本体	
122	Green PCB 绿色 PCB	
123	Silvery solder 银色焊锡	

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Sample No. 样品编号	Description 描述	Photograph 图示
124	Silvery metal 银色金属	
125	Silvery metal 银色金属	
126	Yellow plastic 黄色塑胶	
127	White glue 白色胶	
128	Red body 红色本体	

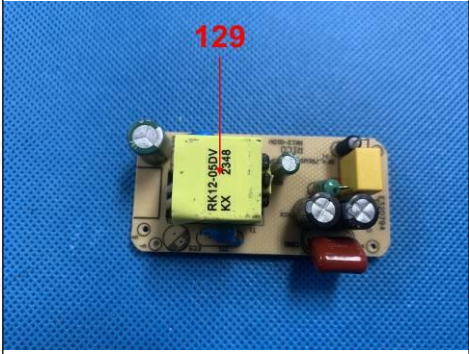
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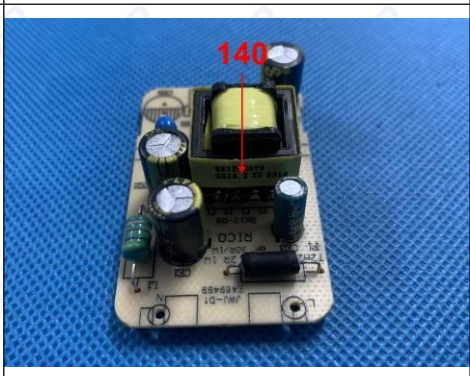
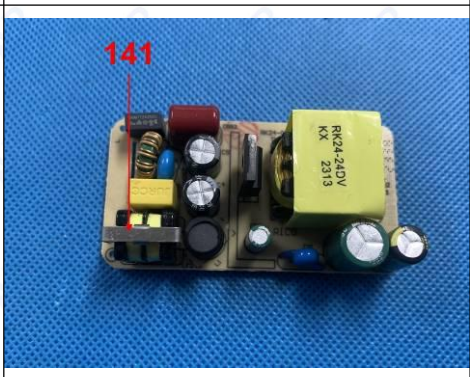

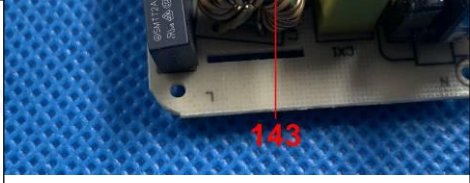
Tel: (86-769) 38937518

Address: Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
E-mail: service@soar-cert.com

Website: <http://www.soartestlab.com>

Sample No. 样品编号	Description 描述	Photograph 图示
129	Transparent plastic with black printing 透明塑胶带黑色印刷	
130	Black foam 黑色泡棉	
131	Silvery metal 银色金属	
132	Silvery metal 银色金属	
133	Grey metal foil 灰色金属箔片	
134	White plastic 白色塑胶	
135	Silvery metal 银色金属	
136	White plastic 白色塑胶	
137	Green PCB 绿色 PCB	
138	Silvery solder 银色焊锡	

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Sample No. 样品编号	Description 描述	Photograph 图示
139	Transparent plastic with black printing 透明塑胶带黑色印刷	
140	Transparent plastic with black printing 透明塑胶带黑色印刷	
141	Silvery metal 银色金属	
142	0 透明金属	
143	Green magnet 绿色磁石	

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Sample No. 样品编号	Description 描述	Photograph 图示
144	Green plastic with black printing 绿色塑胶带黑色印刷	
145	Silvery body 银色本体	
146	Black soft plastic 黑色软塑胶	
147	Yellow plastic with black printing 黄色塑胶带黑色印刷	

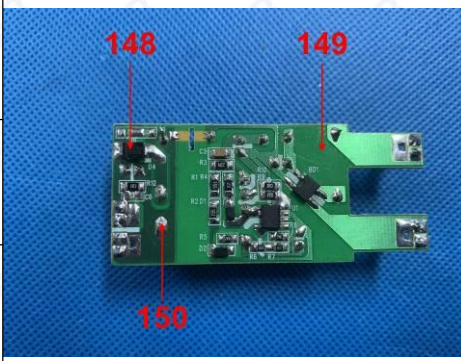
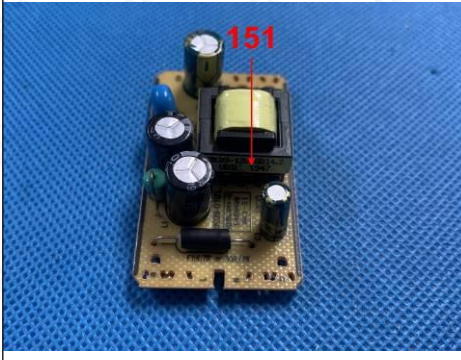

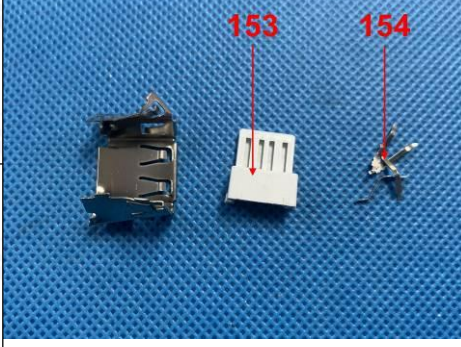
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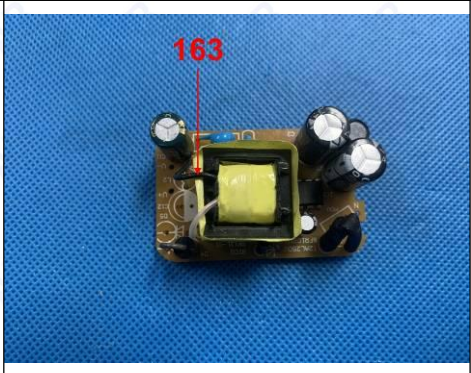
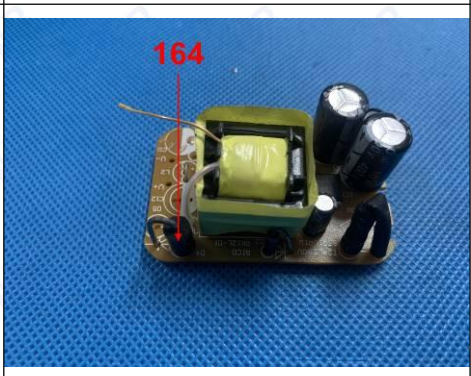
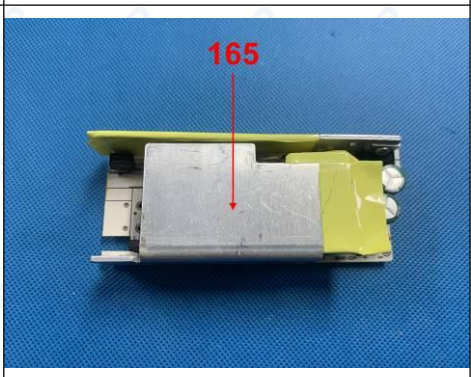
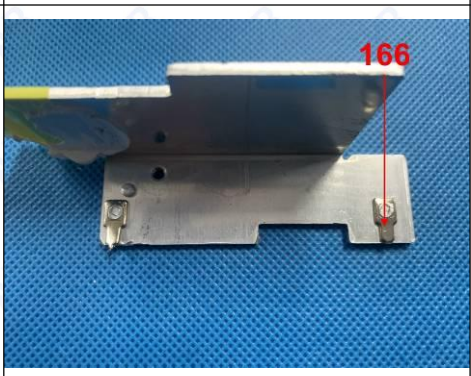
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Sample No. 样品编号	Description 描述	Photograph 图示
148	Black body 黑色本体	
149	Green PCB 绿色 PCB	
150	Silvery solder 银色焊锡	
151	Yellow plastic with black printing 黄色塑胶带黑色印刷	
152	Silvery metal 银色金属	
153	White plastic 白色塑胶	
154	Silvery metal 银色金属	

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Sample No. 样品编号	Description 描述	Photograph 图示
155	Silvery metal with red plating 银色金属带红色镀层	
156	Black body 黑色本体	
157	Green PCB 绿色 PCB	
158	Silvery solder 银色焊锡	
159	Transparent plastic with black printing 透明塑胶带黑色印刷	
160	Red plastic 红色塑胶	
161	Green PCB 绿色 PCB	
162	Silvery solder 银色焊锡	

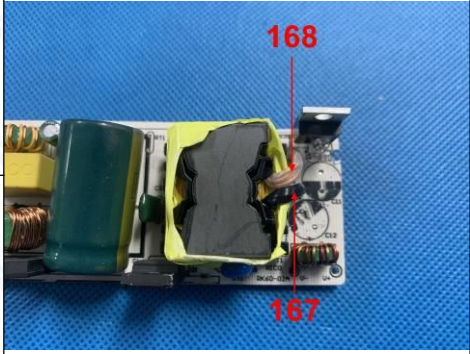
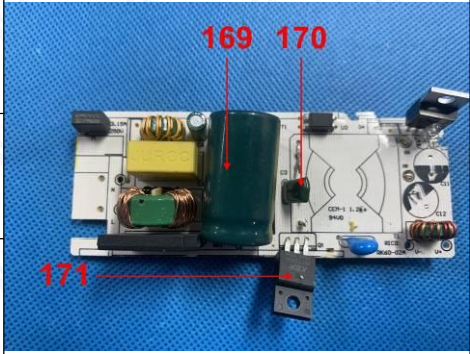
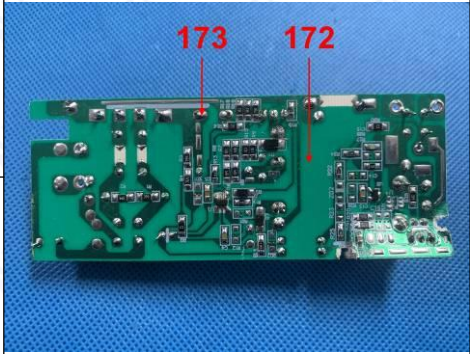

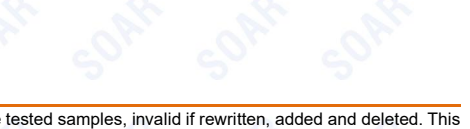
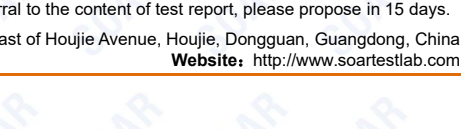

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Sample No. 样品编号	Description 描述	Photograph 图示
163	Black soft plastic 黑色软塑胶	
164	Black body 黑色本体	
165	Silvery metal 银色金属	
166	Silvery metal 银色金属	

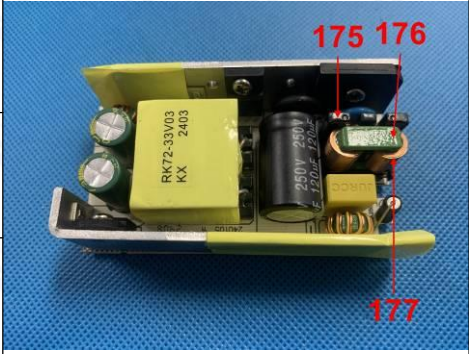
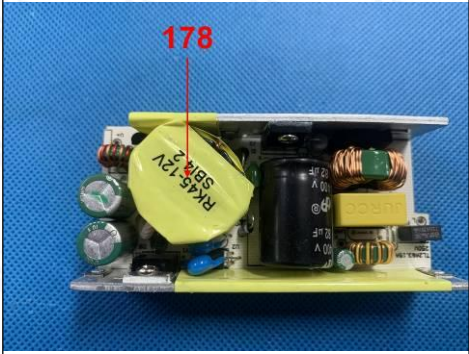
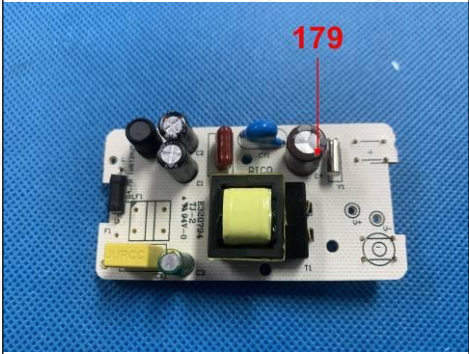
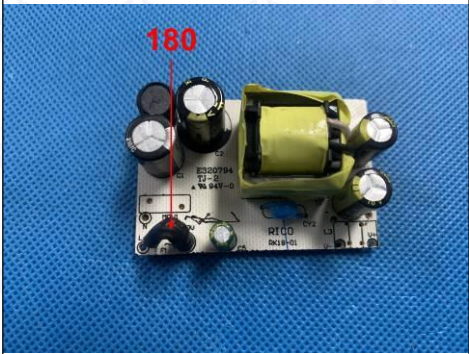
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E-mail: service@soar-cert.com Website: http://www.soartestlab.com

Sample No. 样品编号	Description 描述	Photograph 图示
167	Black soft plastic 黑色软塑胶	
168	Transparent soft plastic 透明软塑胶	
169	0 绿色塑胶带金色镀层	
170	Green body with colored printing 绿色本体带彩色印刷	
171	Black body 黑色本体	
172	Green PCB 绿色 PCB	
173	Silvery solder 银色焊锡	
174	Black body 黑色本体	

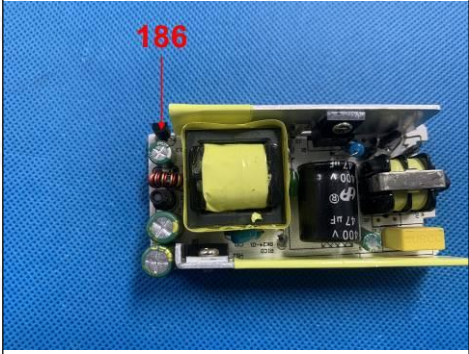
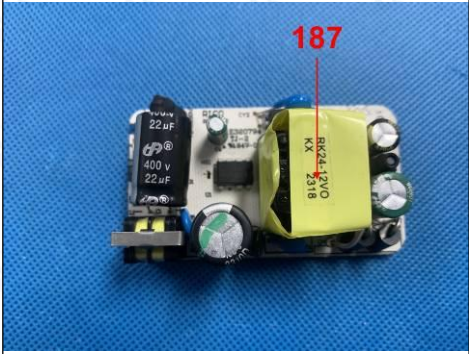
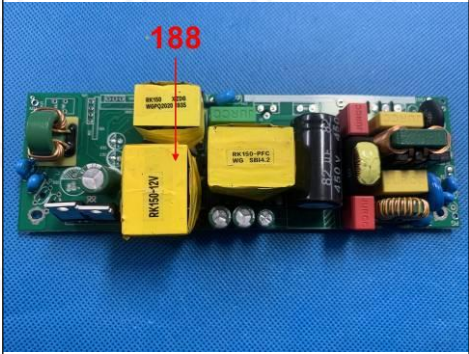
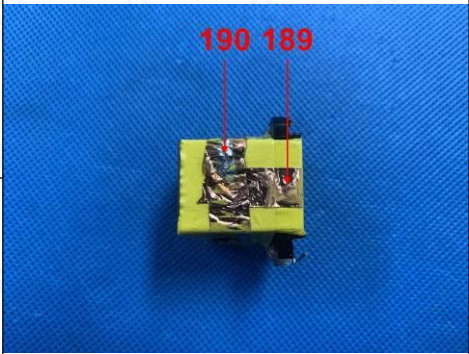
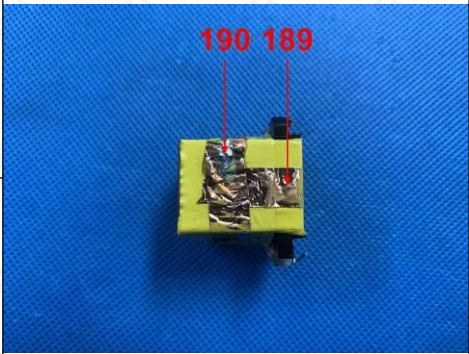
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Sample No. 样品编号	Description 描述	Photograph 图示
175	Black plastic 黑色塑胶	
176	Green magnet 绿色磁石	
177	Copper metal 铜色金属	
178	Transparent plastic with black printing 透明塑胶带黑色印刷	
179	Brown plastic with grey printing 棕色塑胶带灰色印刷	
180	Black soft plastic 黑色软塑胶	

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Sample No. 样品编号	Description 描述	Photograph 图示
181	White body 白色本体	
182	Green body 绿色本体	
183	Coppery metal with red plating 铜色金属带红色镀层	
184	Yellow body 黄色本体	
185	Transparent plastic with black printing 透明塑胶带黑色印刷	

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Sample No. 样品编号	Description 描述	Photograph 图示
186	Black body 黑色本体	
187	Transparent plastic with black printing 透明塑胶带黑色印刷	
188	Yellow plastic 黄色塑胶	
189	Copper metal foil 铜色金属箔片	
190	Silvery solder 银色焊锡	

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E-mail: service@soar-cert.com

Website: <http://www.soartestlab.com>

Sample No. 样品编号	Description 描述	Photograph 图示
191	Black body 黑色本体	
192	Green PCB 绿色 PCB	
193	Silvery solder 银色焊锡	

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3. Test Results

3. 测试结果

3.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

3.1 指定的RoHS有害物质的筛检试验所选材料的提交样品

- Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
- 重金属 (镉, 铬, 汞, 铅) 含量测试
- Bromine Content Test
- 溴含量测试

According to IEC 62321-3-1:2013, and Quantification analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

依据 IEC 62321-3-1:2013, 采用能量散射 X 射线荧光光谱仪 (ED-XRF) 进行分析。

Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 001 样品 001	BL	BL	BL	BL	BL
Sample 002 样品 002	BL	OL [^]	BL	BL	N.A.
Sample 003 样品 003	BL	OL [^]	BL	BL	N.A.
Sample 004 样品 004	BL	OL [^]	BL	BL	N.A.
Sample 005 样品 005	BL	BL	BL	BL	N.A.
Sample 006 样品 006	BL	BL	BL	BL	BL
Sample 007 样品 007	BL	BL	BL	BL	BL
Sample 008 样品 008	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 009 样品 009	BL	BL	BL	BL	BL
Sample 010 样品 010	BL	BL	BL	BL	N.A.
Sample 011 样品 011	BL	BL	BL	Inconclusive [^] 不确定 [^]	N.A.
Sample 012 样品 012	BL	BL	BL	BL	N.A.
Sample 013 样品 013	BL	BL	BL	BL	N.A.

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 014 样品 014	BL	BL	BL	BL	N.A.
Sample 015 样品 015	BL	BL	BL	BL	N.A.
Sample 016 样品 016	BL	BL	BL	BL	BL
Sample 017 样品 017	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 018 样品 018	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 019 样品 019	BL	BL	BL	BL	BL
Sample 020 样品 020	BL	BL	BL	BL	N.A.
Sample 021 样品 021	BL	BL	BL	BL	BL
Sample 022 样品 022	BL	BL	BL	BL	BL
Sample 023 样品 023	BL	BL	BL	BL	BL
Sample 024 样品 024	BL	OL [^]	BL	BL	N.A.
Sample 025 样品 025	BL	BL	BL	BL	BL
Sample 026 样品 026	Inconclusive [^] 不确定 [^]	OL [^]	BL	BL	N.A.
Sample 027 样品 027	Inconclusive [^] 不确定 [^]	OL [^]	BL	BL	N.A.
Sample 028 样品 028	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 029 样品 029	BL	BL	BL	BL	BL
Sample 030 样品 030	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 031 样品 031	BL	BL	BL	BL	N.A.
Sample 032 样品 032	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 033 样品 033	BL	BL	BL	BL	BL

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 034 样品 034	BL	BL	BL	BL	BL
Sample 035 样品 035	BL	BL	BL	BL	BL
Sample 036 样品 036	BL	BL	BL	BL	BL
Sample 037 样品 037	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 038 样品 038	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 039 样品 039	BL	BL	BL	BL	BL
Sample 040 样品 040	BL	BL	BL	BL	BL
Sample 041 样品 041	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 042 样品 042	BL	BL	BL	BL	BL
Sample 043 样品 043	BL	BL	BL	BL	BL
Sample 044 样品 044	BL	BL	BL	BL	BL
Sample 045 样品 045	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 046 样品 046	BL	BL	BL	BL	N.A.
Sample 047 样品 047	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 048 样品 048	BL	BL	BL	BL	BL
Sample 049 样品 049	BL	BL	BL	BL	N.A.
Sample 050 样品 050	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 051 样品 051	BL	BL	BL	BL	BL
Sample 052 样品 052	BL	BL	BL	BL	BL
Sample 053 样品 053	BL	BL	BL	BL	BL

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 054 样品 054	BL	BL	BL	BL	BL
Sample 055 样品 055	BL	BL	BL	BL	BL
Sample 056 样品 056	BL	BL	BL	BL	BL
Sample 057 样品 057	BL	BL	BL	BL	BL
Sample 058 样品 058	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 059 样品 059	BL	BL	BL	BL	BL
Sample 060 样品 060	BL	BL	BL	BL	BL
Sample 061 样品 061	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 062 样品 062	BL	BL	BL	BL	BL
Sample 063 样品 063	BL	BL	BL	BL	N.A.
Sample 064 样品 064	BL	BL	BL	BL	BL
Sample 065 样品 065	BL	BL	BL	BL	N.A.
Sample 066 样品 066	BL	BL	BL	BL	N.A.
Sample 067 样品 067	BL	BL	BL	BL	BL
Sample 068 样品 068	BL	BL	BL	BL	BL
Sample 069 样品 069	BL	BL	BL	BL	BL
Sample 070 样品 070	BL	BL	BL	BL	BL
Sample 071 样品 071	BL	BL	BL	BL	N.A.
Sample 072 样品 072	BL	BL	BL	BL	BL
Sample 073 样品 073	BL	BL	BL	BL	BL

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 074 样品 074	BL	BL	BL	BL	BL
Sample 075 样品 075	BL	BL	BL	BL	BL
Sample 076 样品 076	BL	BL	BL	BL	N.A.
Sample 077 样品 077	BL	BL	BL	BL	BL
Sample 078 样品 078	BL	BL	BL	BL	BL
Sample 079 样品 079	BL	BL	BL	BL	BL
Sample 080 样品 080	BL	BL	BL	BL	N.A.
Sample 081 样品 081	BL	BL	BL	BL	BL
Sample 082 样品 082	BL	BL	BL	BL	BL
Sample 083 样品 083	BL	BL	BL	BL	BL
Sample 084 样品 084	BL	BL	BL	BL	BL
Sample 085 样品 085	BL	BL	BL	BL	BL
Sample 086 样品 086	BL	BL	BL	BL	N.A.
Sample 087 样品 087	BL	BL	BL	BL	N.A.
Sample 088 样品 088	BL	BL	BL	BL	BL
Sample 089 样品 089	BL	BL	BL	BL	BL
Sample 090 样品 090	BL	BL	BL	BL	BL
Sample 091 样品 091	BL	BL	BL	BL	BL
Sample 092 样品 092	BL	BL	BL	Inconclusive [^] 不确定 [^]	N.A.
Sample 093 样品 093	BL	BL	BL	BL	BL

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 094 样品 094	BL	BL	BL	BL	BL
Sample 095 样品 095	BL	BL	BL	BL	N.A.
Sample 096 样品 096	BL	BL	BL	BL	N.A.
Sample 097 样品 097	BL	BL	BL	BL	N.A.
Sample 098 样品 098	BL	BL	BL	BL	BL
Sample 099 样品 099	BL	Inconclusive [^] 不确定 [^]	BL	Inconclusive [^] 不确定 [^]	BL
Sample 100 样品 100	BL	BL	BL	BL	N.A.
Sample 101 样品 101	BL	BL	BL	BL	BL
Sample 102 样品 102	BL	BL	BL	BL	BL
Sample 103 样品 103	BL	BL	BL	BL	BL
Sample 104 样品 104	BL	BL	BL	BL	BL
Sample 105 样品 105	BL	BL	BL	BL	N.A.
Sample 106 样品 106	BL	BL	BL	BL	N.A.
Sample 107 样品 107	BL	BL	BL	BL	BL
Sample 108 样品 108	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 109 样品 109	Inconclusive [^] 不确定 [^]	BL	BL	BL	N.A.
Sample 110 样品 110	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 111 样品 111	BL	BL	BL	BL	BL
Sample 112 样品 112	BL	BL	BL	BL	BL
Sample 113 样品 113	BL	BL	BL	BL	BL

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 114 样品 114	BL	BL	BL	BL	N.A.
Sample 115 样品 115	BL	BL	BL	BL	N.A.
Sample 116 样品 116	BL	BL	BL	BL	N.A.
Sample 117 样品 117	BL	BL	BL	BL	BL
Sample 118 样品 118	BL	BL	BL	BL	BL
Sample 119 样品 119	BL	BL	BL	Inconclusive^ 不确定^	BL
Sample 120 样品 120	BL	BL	BL	BL	Inconclusive^ 不确定^
Sample 121 样品 121	BL	BL	BL	BL	BL
Sample 122 样品 122	BL	BL	BL	BL	Inconclusive^ 不确定^
Sample 123 样品 123	BL	BL	BL	BL	N.A.
Sample 124 样品 124	BL	BL	BL	BL	N.A.
Sample 125 样品 125	BL	BL	BL	BL	N.A.
Sample 126 样品 126	BL	BL	BL	BL	BL
Sample 127 样品 127	BL	BL	BL	BL	BL
Sample 128 样品 128	BL	BL	BL	BL	Inconclusive^ 不确定^
Sample 129 样品 129	BL	BL	BL	BL	BL
Sample 130 样品 130	BL	BL	BL	BL	BL
Sample 131 样品 131	BL	BL	BL	Inconclusive^ 不确定^	N.A.
Sample 132 样品 132	BL	BL	BL	BL	N.A.
Sample 133 样品 133	BL	BL	BL	BL	N.A.

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 134 样品 134	BL	BL	BL	BL	BL
Sample 135 样品 135	BL	Inconclusive [^] 不确定 [^]	BL	BL	N.A.
Sample 136 样品 136	BL	BL	BL	BL	BL
Sample 137 样品 137	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 138 样品 138	BL	BL	BL	BL	N.A.
Sample 139 样品 139	BL	BL	BL	BL	BL
Sample 140 样品 140	BL	BL	BL	BL	BL
Sample 141 样品 141	BL	BL	BL	Inconclusive [^] 不确定 [^]	N.A.
Sample 142 样品 142	BL	BL	BL	BL	N.A.
Sample 143 样品 143	BL	BL	BL	BL	BL
Sample 144 样品 144	BL	BL	BL	BL	BL
Sample 145 样品 145	BL	BL	BL	BL	BL
Sample 146 样品 146	BL	BL	BL	BL	BL
Sample 147 样品 147	BL	BL	BL	BL	BL
Sample 148 样品 148	BL	BL	BL	BL	BL
Sample 149 样品 149	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 150 样品 150	OL [^]	BL	BL	BL	N.A.
Sample 151 样品 151	BL	BL	BL	BL	BL
Sample 152 样品 152	BL	BL	BL	BL	N.A.
Sample 153 样品 153	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 154 样品 154	BL	BL	BL	BL	N.A.
Sample 155 样品 155	BL	BL	BL	BL	N.A.
Sample 156 样品 156	BL	BL	BL	BL	BL
Sample 157 样品 157	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 158 样品 158	BL	BL	BL	BL	N.A.
Sample 159 样品 159	BL	BL	BL	BL	BL
Sample 160 样品 160	BL	BL	BL	BL	BL
Sample 161 样品 161	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 162 样品 162	BL	BL	BL	BL	N.A.
Sample 163 样品 163	BL	BL	BL	BL	BL
Sample 164 样品 164	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 165 样品 165	BL	BL	BL	BL	N.A.
Sample 166 样品 166	BL	BL	BL	Inconclusive [^] 不确定 [^]	N.A.
Sample 167 样品 167	BL	BL	BL	BL	BL
Sample 168 样品 168	BL	BL	BL	BL	BL
Sample 169 样品 169	BL	BL	BL	BL	BL
Sample 170 样品 170	BL	BL	BL	Inconclusive [^] 不确定 [^]	BL
Sample 171 样品 171	BL	BL	BL	Inconclusive [^] 不确定 [^]	BL
Sample 172 样品 172	BL	BL	BL	BL	Inconclusive [^] 不确定 [^]
Sample 173 样品 173	BL	BL	BL	BL	N.A.

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Sample No. 样品编号	Total Cadmium 总镉	Total Lead 总铅	Total Mercury 总汞	Total Chromium 总铬	Total Bromine 总溴
Sample 174 样品 174	BL	BL	BL	BL	BL
Sample 175 样品 175	BL	BL	BL	BL	BL
Sample 176 样品 176	BL	BL	BL	BL	BL
Sample 177 样品 177	BL	BL	BL	BL	N.A.
Sample 178 样品 178	BL	BL	BL	BL	BL
Sample 179 样品 179	BL	BL	BL	BL	BL
Sample 180 样品 180	BL	BL	BL	BL	BL
Sample 181 样品 181	BL	BL	BL	BL	BL
Sample 182 样品 182	BL	BL	BL	Inconclusive^ 不确定^	BL
Sample 183 样品 183	BL	BL	BL	BL	N.A.
Sample 184 样品 184	BL	BL	BL	BL	BL
Sample 185 样品 185	BL	BL	BL	BL	BL
Sample 186 样品 186	BL	BL	BL	BL	BL
Sample 187 样品 187	BL	BL	BL	BL	BL
Sample 188 样品 188	BL	BL	BL	BL	BL
Sample 189 样品 189	BL	Inconclusive^ 不确定^	BL	BL	N.A.
Sample 190 样品 190	BL	Inconclusive^ 不确定^	BL	BL	N.A.
Sample 191 样品 191	BL	BL	BL	BL	BL
Sample 192 样品 192	BL	BL	BL	BL	Inconclusive^ 不确定^
Sample 193 样品 193	BL	BL	BL	BL	N.A.

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Note:

注释:

- All Concentrations express in “mg/kg” (milligram per kilogram), mg/kg ~ ppm
所有浓度表示方式“mg/kg” (毫克每千克), mg/kg 等于 ppm
- “OL” denotes “over limit” (“OL” 表示 “超出限值”)
- “BL” denotes “below limit” (“BL” 表示 “低于限值”)
- “N.A.” denotes “Not Applicable” (“N.A.” 表示 “不适用”)
- “Inconclusive” denotes result is intermediate between “OL” and “BL”
“不确定” 表示 结果在 “OL” 和 “BL” 之间
- “^”denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 3.2 and 3.3.
“^”表示 检查的结果是不确定的或者超出限值的, 从而进一步确认, 结果清单在 3.2 和 3.3.

Screening range of different materials by XRF:

XRF 对不同材料的筛选范围:

Materials 材料	Concentration/浓度(mg/kg)				
	Cd/镉	Cr/铬	Pb/铅	Hg/汞	Br/溴
Metal 金属	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	N.A.
Polymers 塑料	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$
Composite material 复合材料	$BL \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (250-3\sigma) < X$

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3.2 Test for Heavy Metals

重金属测试

– Lead, Cadmium, Mercury and Hexavalent Chromium Tests according to IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017. Analysis was conducted by ICP-OES, UV-VIS.
– 铅, 镉, 汞和六价铬测试依据 IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017.用电感耦合等离子体发射光谱仪 (ICP-OES), 紫外-可见分光光度计 (UV-VIS) 测试。

Element 元素	Total Cadmium 总镉 [mg/kg]	Total Lead 总铅 [mg/kg]	Total Mercury 总汞 [mg/kg]	Hexavalent Chromium 六价铬 [µg/cm ²]	Hexavalent Chromium 六价铬 [mg/kg]
Detection Limit/检出限	5	5	5	0.10	5
Limit / 限值	100	1000	1000	*	1000
Sample 002 样品 002	/	20787Φ	/	/	/
Sample 003 样品 003	/	21079Φ	/	/	/
Sample 004 样品 004	/	109	/	/	/
Sample 008 样品 008	/	7	/	/	/
Sample 011 样品 011	/	/	/	N.D.	/
Sample 017 样品 017	/	62	/	/	/
Sample 024 样品 024	/	464	/	/	/
Sample 026 样品 026	55	26021Φ	/	/	/
Sample 027 样品 027	31	26222Φ	/	/	/
Sample 037 样品 037	/	67	/	/	/
Sample 038 样品 038	/	73	/	/	/
Sample 041 样品 041	/	42	/	/	/
Sample 045 样品 045	/	19	/	/	/

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Element 元素	Total Cadmium 总镉 [mg/kg]	Total Lead 总铅 [mg/kg]	Total Mercury 总汞 [mg/kg]	Hexavalent Chromium 六价铬 [µg/cm ²]	Hexavalent Chromium 六价铬 [mg/kg]
Detection Limit/检出限	5	5	5	0.10	5
Limit / 限值	100	1000	1000	*	1000
Sample 050 样品 050	/	153	/	/	/
Sample 061 样品 061	/	78	/	/	/
Sample 092 样品 092	/	/	/	N.D.	/
Sample 099 样品 099	/	18	/	/	N.D.
Sample 109 样品 109	N.D.	/	/	/	/
Sample 110 样品 110	/	73	/	/	/
Sample 119 样品 119	/	/	/	/	N.D.
Sample 131 样品 131	/	/	/	N.D.	/
Sample 135 样品 135	/	201	/	/	/
Sample 141 样品 141	/	/	/	N.D.	/
Sample 150 样品 150	N.D.	/	/	/	/
Sample 166 样品 166	/	/	/	N.D.	/
Sample 170 样品 170	/	/	/	/	N.D.
Sample 171 样品 171	/	/	/	/	N.D.
Sample 182 样品 182	/	/	/	/	N.D.
Sample 189 样品 189	/	34	/	/	/

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Test Report
检测报告

No.: S240226015001-1
编号: S240226015001-1

Date: Mar 13, 2024
日期: 2024年03月13日

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Element 元素	Total Cadmium 总镉 [mg/kg]	Total Lead 总铅 [mg/kg]	Total Mercury 总汞 [mg/kg]	Hexavalent Chromium 六价铬 [$\mu\text{g}/\text{cm}^2$]	Hexavalent Chromium 六价铬 [mg/kg]
Detection Limit/检出限	5	5	5	0.10	5
Limit / 限值	100	1000	1000	*	1000
Sample 190 样品 190	/	194	/	/	/

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Note:

注释:

1.All Concentrations express in "mg/kg"(milligram per kilogram), mg/kg ~ ppm.

1. 所有浓度表示方式"mg/kg" (毫克每千克), mg/kg 等于 ppm

2. "N.D." = "Not Detected".

2. "N.D." = "未检出".

3. * = a. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is higher than 0.13 µg/cm², the sample is positive, that is, contains hexavalent chromium;

* = a. 当每 1cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度高于 0.13 µg/cm² 时, 样品为阳性, 即含有六价铬;

b. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is N.D.(less than 0.10µg/cm²), the sample is negative, that is, no hexavalent chromium is detected;

b.当每 1cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度为 N.D.(低于 0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;

c. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is between 0.10µg/cm² and 0.13µg/cm², it is not possible to directly determine whether hexavalent chromium is detected.

c. 当每 1cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度介于 0.10 µg/cm² 与 0.13 µg/cm² 之间时, 无法直接判定是否检测到六价铬,

Surface differences of samples from different individuals may affect the determination results:

因不同个体的样品表面差异可能会影响测定结果:

Since the storage condition and production date of the sample are not known, the test result of the sample can only represent the state of the sample containing hexavalent chromium at the time of the test.

由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

Positive = result be regarded as not comply with RoHS requirement

阳性表示六价铬不符合 RoHS 要求

Negative = result be regarded as comply with RoHS requirement

阴性表示六价铬符合 RoHS 要求

4. "Φ"=the sample 002, sample 003, sample 026, sample 027 are copper alloy. The lead content which is under 4% is exempted from the requirement of directive 2011/65/EU(RoHS) Annex III.

"Φ"=样品 002, 样品 003, 样品 026, 样品 027 是铜合金, 按照 RoHS 指令 2011/65/EU 附录III的要求, 铅含量低于 4%豁免。

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3.3 Test for Flame retardants
阻燃剂的测试

- Test method: According to IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).
- 测试方法: 依据 IEC 62321-6:2015, 使用甲苯萃取, 用气相色谱质谱联用仪(GC-MS)测试。

Test Item 测试项目		Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]
		No. 018	No. 028	
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
	Sum of PBBS/多溴联苯总和	< 5	< 5	
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
	Sum of PBDEs/多溴二苯醚总和	< 5	< 5	

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 030	No. 032		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 047	No. 058		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 108	No. 120		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 122	No. 128		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 137	No. 149		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 153	No. 157		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 161	No. 164		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

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Test Item 测试项目	Result/结果[mg/kg]		RoHS Requirement RoHS 要求 [mg/kg]	
	No. 172	No. 192		
PBBS 多溴联苯	Monobromobiphenyl/一溴联苯	< 5	< 5	Sum of PBBS 多溴联苯总和 < 1000
	Dibromobiphenyl/二溴联苯	< 5	< 5	
	Tribromobiphenyl/三溴联苯	< 5	< 5	
	Tetrabromobiphenyl/四溴联苯	< 5	< 5	
	Pentabromobiphenyl /五溴联苯	< 5	< 5	
	Hexabromobiphenyl/六溴联苯	< 5	< 5	
	Heptabromobiphenyl/七溴联苯	< 5	< 5	
	Octabromobiphenyl/八溴联苯	< 5	< 5	
	Nonabromobiphenyl/九溴联苯	< 5	< 5	
	Decabromobiphenyl/十溴联苯	< 5	< 5	
Sum of PBBS/多溴联苯总和	< 5	< 5		
PBDEs 多溴二苯醚	Monobromodiphenyl Ether/一溴二苯醚	< 5	< 5	Sum of PBDEs 多溴二苯醚总和 < 1000
	Dibromodiphenyl Ether/二溴二苯醚	< 5	< 5	
	Tribromodiphenyl Ether/三溴二苯醚	< 5	< 5	
	Tetrabromodiphenyl Ether/四溴二苯醚	< 5	< 5	
	Pentabromodiphenyl Ether/五溴二苯醚	< 5	< 5	
	Hexabromodiphenyl Ether/六溴二苯醚	< 5	< 5	
	Heptabromodiphenyl Ether/七溴二苯醚	< 5	< 5	
	Octabromodiphenyl Ether/八溴二苯醚	< 5	< 5	
	Nonabromodiphenyl Ether/九溴二苯醚	< 5	< 5	
	Decabromodiphenyl Ether/十溴二苯醚	< 5	< 5	
Sum of PBDEs/多溴二苯醚总和	< 5	< 5		

Note:

注释:

1. All Concentrations express in “mg/kg” (milligram per kilogram), mg/kg ~ ppm.

所有浓度表示方式“mg/kg” (毫克每千克), mg/kg 等于 ppm

2. “<” denotes less than (“<” 表示 小于)

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3.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863
邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸苯基丁酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)含量—RoHS 指令2011/65/EU附录II的修正指令(EU)2015/863

Test method: According to IEC 62321-8:2017; Analysis was conducted by GC-MS&LC-MS.

测试方法: 依据 IEC 62321-8:2017, 使用气相色谱质谱联用仪(GC-MS)&液相色谱质谱联用仪(LC-MS)进行分析。

Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 001 样品 001	N.D.	N.D.	N.D.	N.D.
Sample 006 样品 006	N.D.	N.D.	N.D.	N.D.
Sample 007 样品 007	N.D.	N.D.	N.D.	N.D.
Sample 009 样品 009	N.D.	N.D.	N.D.	N.D.
Sample 016 样品 016	N.D.	N.D.	N.D.	N.D.
Sample 018 样品 018	N.D.	N.D.	N.D.	N.D.
Sample 019 样品 019	N.D.	N.D.	N.D.	N.D.
Sample 021 样品 021	N.D.	N.D.	N.D.	N.D.
Sample 022 样品 022	N.D.	N.D.	N.D.	N.D.
Sample 023 样品 023	N.D.	N.D.	N.D.	N.D.
Sample 025 样品 025	N.D.	N.D.	N.D.	N.D.
Sample 028 样品 028	N.D.	N.D.	N.D.	N.D.
Sample 029 样品 029				
Sample 030 样品 030				

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 032 样品 032	N.D.	N.D.	N.D.	N.D.
Sample 033 样品 033	N.D.	N.D.	N.D.	N.D.
Sample 034 样品 034	N.D.	N.D.	N.D.	N.D.
Sample 035 样品 035	N.D.	N.D.	N.D.	N.D.
Sample 036 样品 036	N.D.	N.D.	N.D.	N.D.
Sample 039 样品 039	N.D.	N.D.	N.D.	N.D.
Sample 040 样品 040	N.D.	N.D.	N.D.	N.D.
Sample 042 样品 042	N.D.	N.D.	N.D.	N.D.
Sample 043 样品 043	N.D.	N.D.	N.D.	N.D.
Sample 044 样品 044	N.D.	N.D.	N.D.	N.D.
Sample 047 样品 047	N.D.	N.D.	N.D.	N.D.
Sample 048 样品 048	N.D.	N.D.	N.D.	N.D.
Sample 051 样品 051	N.D.	N.D.	N.D.	N.D.
Sample 052 样品 052	N.D.	N.D.	N.D.	N.D.
Sample 053 样品 053	N.D.	N.D.	N.D.	N.D.
Sample 054 样品 054	N.D.	N.D.	N.D.	N.D.
Sample 055 样品 055	136	N.D.	N.D.	N.D.

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 056 样品 056	N.D.	N.D.	N.D.	N.D.
Sample 057 样品 057	N.D.	N.D.	N.D.	N.D.
Sample 058 样品 058				
Sample 059 样品 059				
Sample 060 样品 060	N.D.	N.D.	N.D.	N.D.
Sample 062 样品 062				
Sample 064 样品 064				
Sample 067 样品 067	N.D.	N.D.	N.D.	N.D.
Sample 068 样品 068	N.D.	N.D.	N.D.	N.D.
Sample 069 样品 069	N.D.	N.D.	N.D.	N.D.
Sample 070 样品 070	N.D.	N.D.	N.D.	N.D.
Sample 072 样品 072	N.D.	N.D.	N.D.	N.D.
Sample 073 样品 073	N.D.	N.D.	N.D.	N.D.
Sample 074 样品 074	N.D.	N.D.	N.D.	N.D.
Sample 075 样品 075				
Sample 077 样品 077	106	N.D.	N.D.	N.D.
Sample 078 样品 078	N.D.	N.D.	N.D.	N.D.

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 079 样品 079	N.D.	N.D.	N.D.	N.D.
Sample 081 样品 081				
Sample 082 样品 082				
Sample 083 样品 083	N.D.	N.D.	N.D.	N.D.
Sample 084 样品 084				
Sample 085 样品 085				
Sample 088 样品 088	N.D.	N.D.	N.D.	N.D.
Sample 089 样品 089	N.D.	N.D.	N.D.	N.D.
Sample 090 样品 090	N.D.	N.D.	N.D.	N.D.
Sample 091 样品 091				
Sample 093 样品 093				
Sample 094 样品 094	N.D.	N.D.	N.D.	N.D.
Sample 098 样品 098	N.D.	N.D.	N.D.	N.D.
Sample 099 样品 099	N.D.	N.D.	N.D.	N.D.
Sample 101 样品 101				
Sample 102 样品 102				

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 103 样品 103	N.D.	N.D.	N.D.	N.D.
Sample 104 样品 104				
Sample 107 样品 107				
Sample 108 样品 108	N.D.	N.D.	N.D.	N.D.
Sample 111 样品 111				
Sample 112 样品 112				
Sample 113 样品 113	N.D.	N.D.	N.D.	N.D.
Sample 117 样品 117				
Sample 118 样品 118				
Sample 119 样品 119	N.D.	N.D.	N.D.	N.D.
Sample 120 样品 120				
Sample 121 样品 121				
Sample 122 样品 122	N.D.	N.D.	N.D.	N.D.
Sample 126 样品 126				
Sample 127 样品 127				
Sample 128 样品 128	N.D.	N.D.	N.D.	N.D.
Sample 129 样品 129				
Sample 130 样品 130				

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 134 样品 134	N.D.	N.D.	N.D.	N.D.
Sample 136 样品 136				
Sample 137 样品 137				
Sample 139 样品 139	N.D.	N.D.	N.D.	N.D.
Sample 140 样品 140				
Sample 143 样品 143				
Sample 144 样品 144	N.D.	N.D.	N.D.	N.D.
Sample 145 样品 145				
Sample 146 样品 146	N.D.	N.D.	N.D.	N.D.
Sample 147 样品 147	N.D.	N.D.	N.D.	N.D.
Sample 148 样品 148				
Sample 149 样品 149				
Sample 151 样品 151	N.D.	N.D.	N.D.	N.D.
Sample 153 样品 153	N.D.	N.D.	N.D.	N.D.
Sample 156 样品 156				
Sample 157 样品 157				

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 159 样品 159	N.D.	N.D.	N.D.	N.D.
Sample 160 样品 160				
Sample 161 样品 161				
Sample 163 样品 163	N.D.	N.D.	N.D.	N.D.
Sample 164 样品 164	N.D.	N.D.	N.D.	N.D.
Sample 167 样品 167	N.D.	N.D.	N.D.	N.D.
Sample 168 样品 168	N.D.	N.D.	N.D.	N.D.
Sample 169 样品 169	N.D.	N.D.	N.D.	N.D.
Sample 170 样品 170				
Sample 171 样品 171				
Sample 172 样品 172	N.D.	N.D.	N.D.	N.D.
Sample 174 样品 174				
Sample 175 样品 175				
Sample 176 样品 176	N.D.	N.D.	N.D.	N.D.
Sample 178 样品 178				
Sample 179 样品 179				
Sample 180 样品 180	N.D.	N.D.	N.D.	N.D.

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Element/元素	Di-(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯 (DEHP) [mg/kg]	Benzylbutyl phthalate 邻苯二甲酸苯基丁酯(BBP) [mg/kg]	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP) [mg/kg]	Diisobutyl phthalate 邻苯二甲酸二异丁酯 (DIBP) [mg/kg]
Detection Limit/检出限	50	50	50	50
Limit /限值	1000	1000	1000	1000
Sample 181 样品 181	N.D.	N.D.	N.D.	N.D.
Sample 182 样品 182				
Sample 184 样品 184				
Sample 185 样品 185	N.D.	N.D.	N.D.	N.D.
Sample 186 样品 186				
Sample 187 样品 187				
Sample 188 样品 188	N.D.	N.D.	N.D.	N.D.
Sample 191 样品 191				
Sample 192 样品 192				

Note:

注释:

- 1.All Concentrations express in "mg/kg"(milligram per kilogram), mg/kg ~ ppm.
1.所有浓度表示方式"mg/kg" (毫克每千克), mg/kg 等于 ppm
2. "N.D." = "Not Detected".
2. "N.D." = "未检出".

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

备注: 根据申请人的要求, 对提交样品所选的材料进行检测。测试结果仅对提交的样品负责。本检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供参考。

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Post Code: 523945

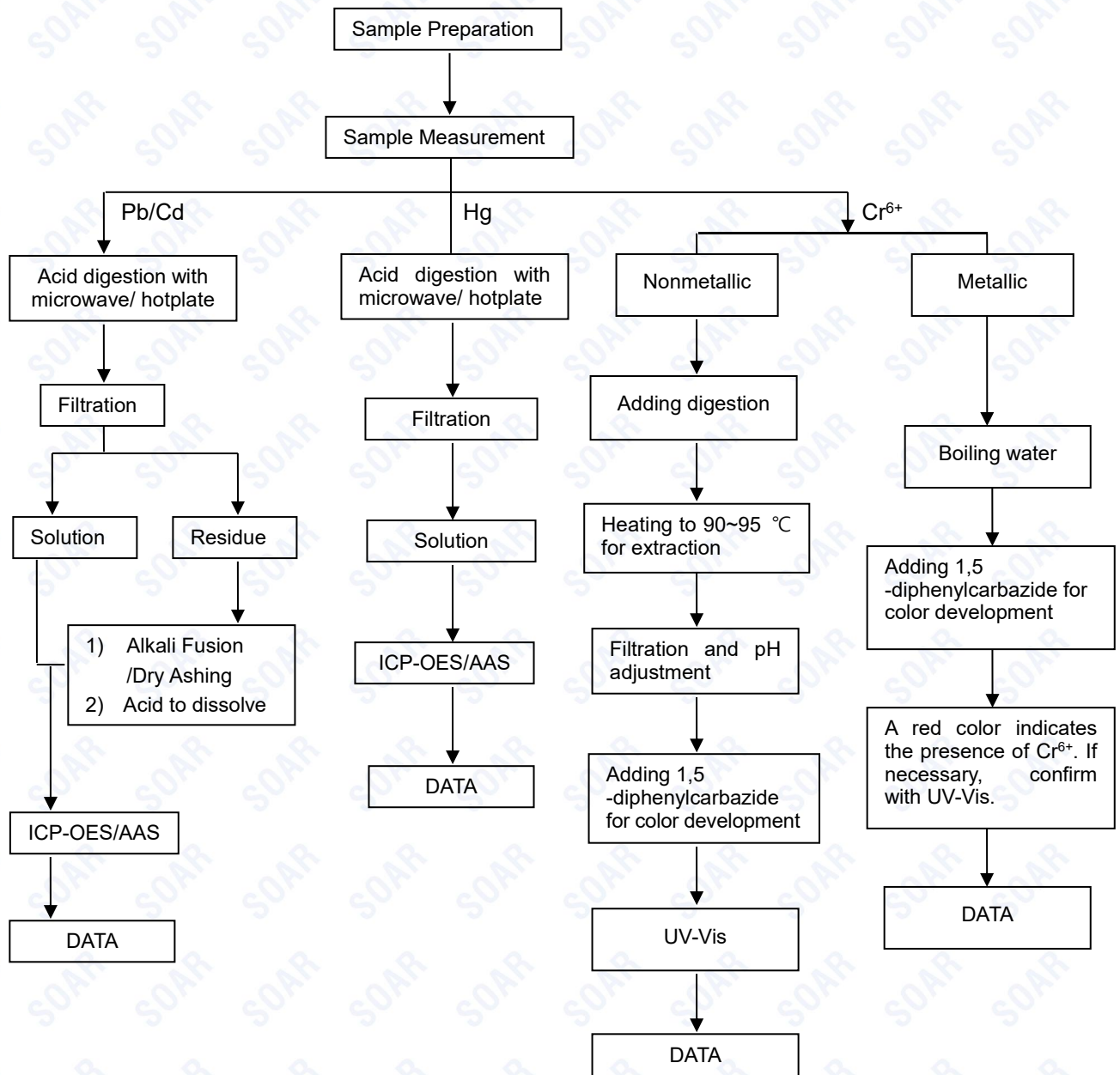
Tel: (86-769) 38937518

Address: Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
E-mail: service@soar-cert.com

Website: http://www.soartestlab.com

Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

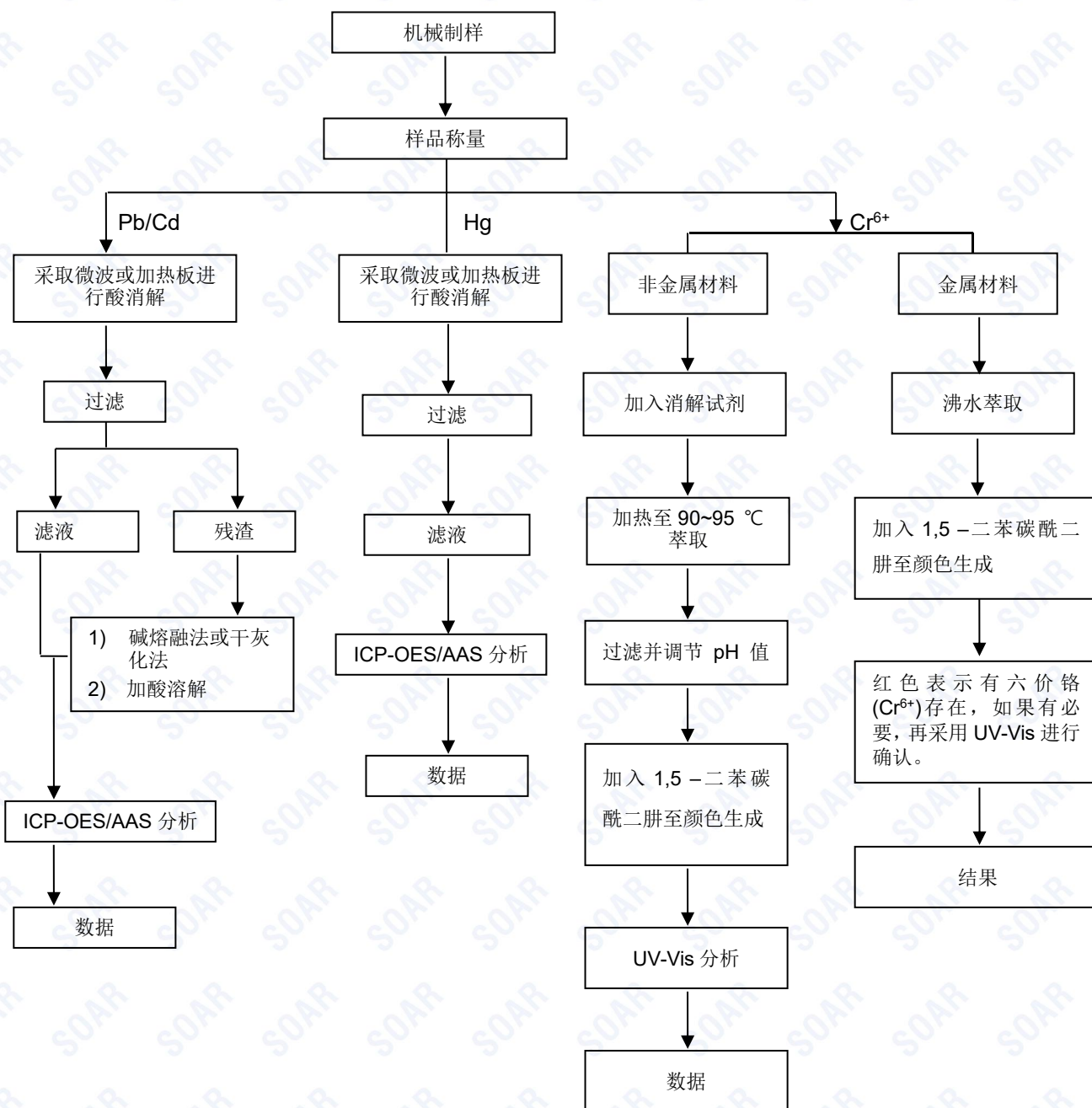
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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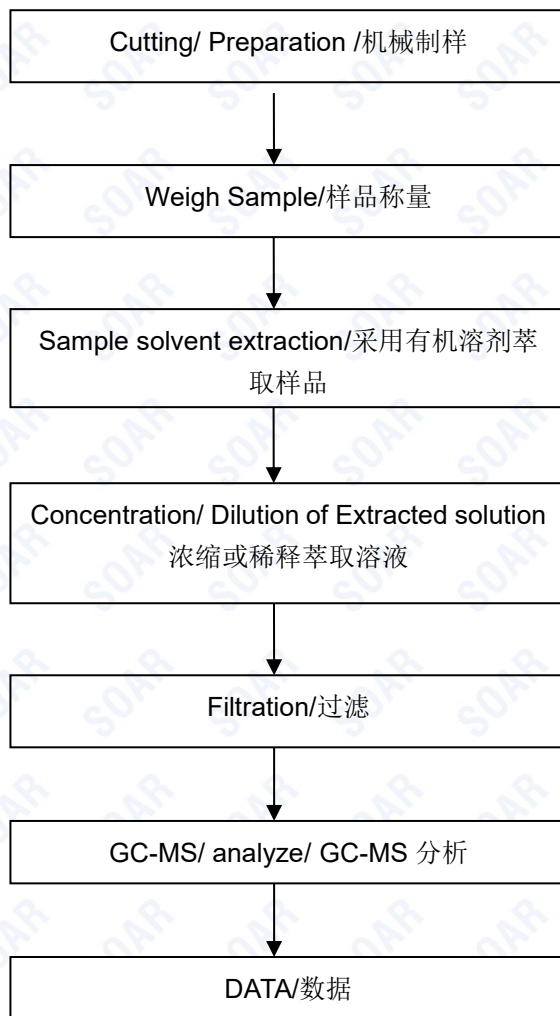
Pb/Cd/Hg/Cr⁶⁺ 测试流程图

1) 根据以下测试流程图样品在预处理方法中被完全溶解(Cr⁶⁺ 测试方法除外)。



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PBBs/PBDEs Testing Flow Chart
多溴联苯/多溴二苯醚 测试流程图



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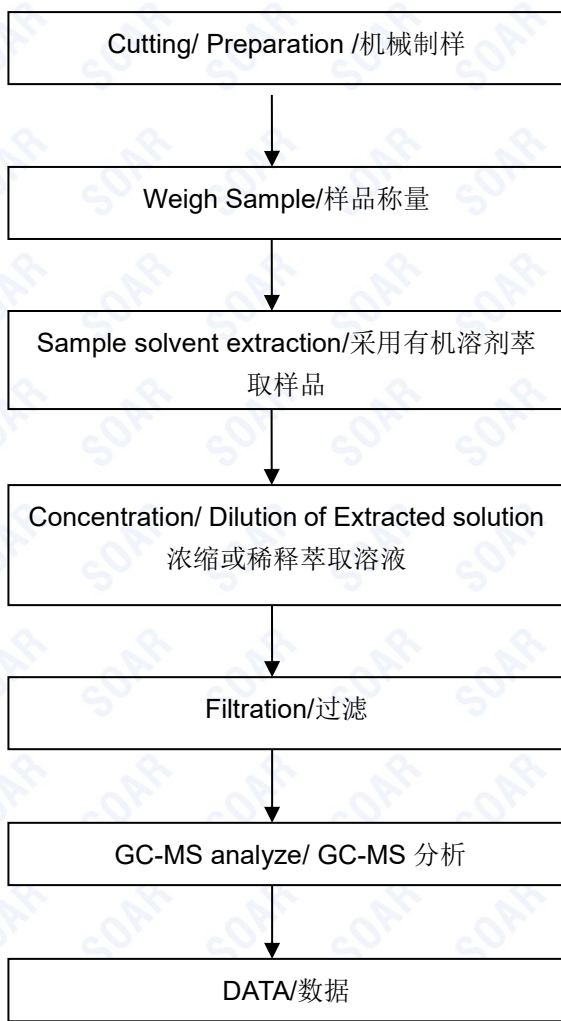
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Phthalates Testing Flow Chart

邻苯二甲酸酯 测试流程图



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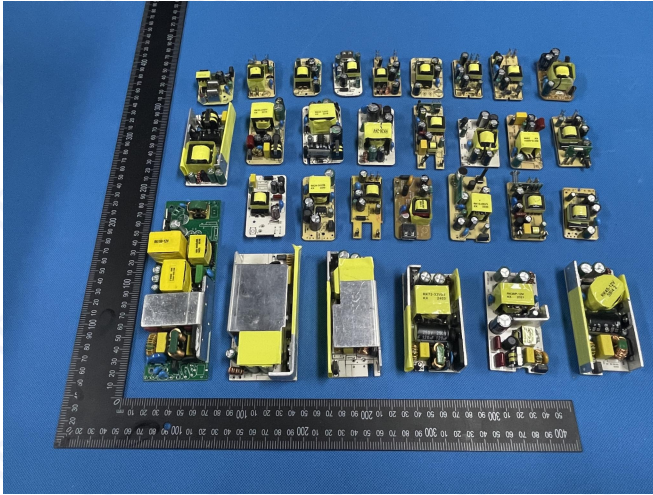
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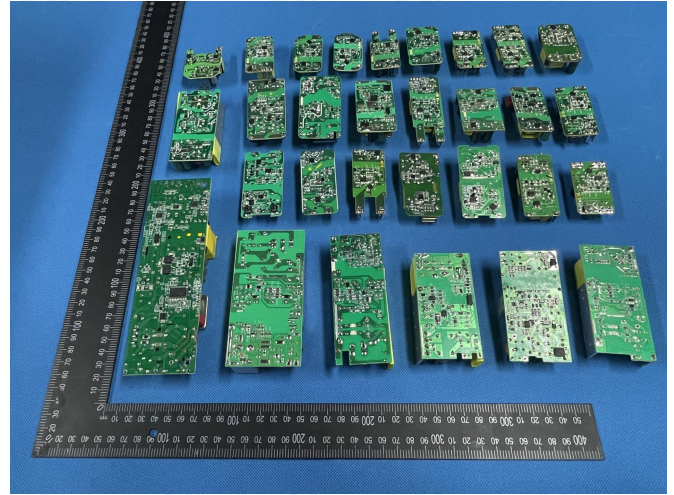
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Photo of the Sample:.
样品照片:.



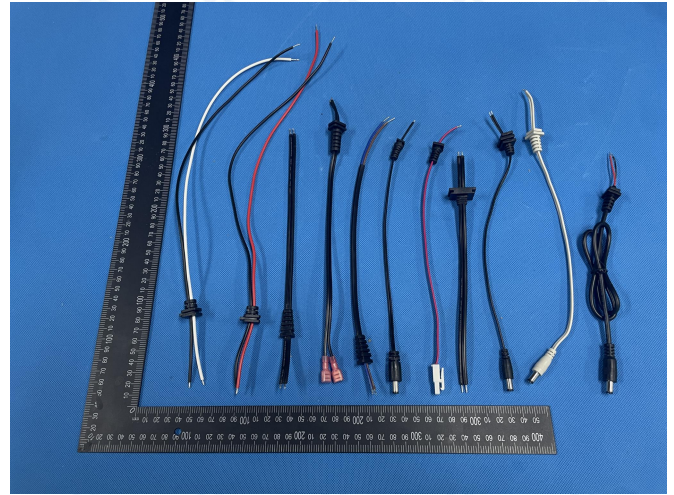
Test sample
测试样品



Test sample
测试样品



Test sample
测试样品



Test sample
测试样品

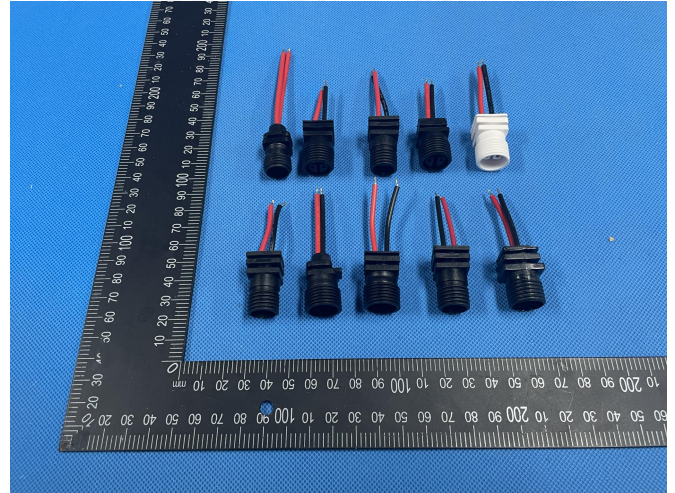
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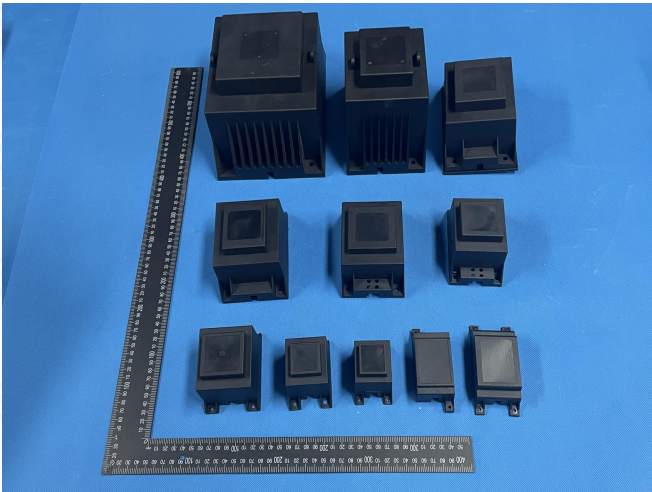
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Test sample
测试样品



Test sample
测试样品



Test sample
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Test sample
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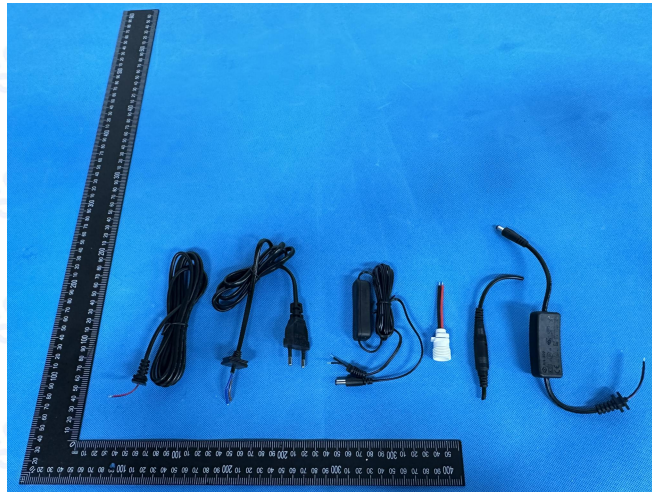
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Test sample
测试样品



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*** End of Report ***

*** 报告结束 ***

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