Test Report No.: 48.400.25.1439.01-00/05

Dated: 2025-12-25

Applicant:	Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address:	No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Attn:	Han Zhonghua
Sample Description:	Meter
Model No.:	APM521
Sample Received Date:	2025-12-01
Test Period:	2025-12-01~2025-12-23
Test Location:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, SHA Chemical Lab.
Purpose of examination:	Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Results:	Refer to following page(s)
Remark:	- The result relates only to the items tested. - The reference model(s) was declared by client. - The test sample(s) and item(s) was specified by client.

TüV SüD Certification and Testing (China) Co., Ltd.
TüV SüD Group

Prepared by: Mr. Yiwei CHEN

Reviewed by: Mr. Feng ZHANG

Disclaimer Measurement Uncertainty:Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties.Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as FailAny use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	**PASS**	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	**PASS**	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	**PASS**	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

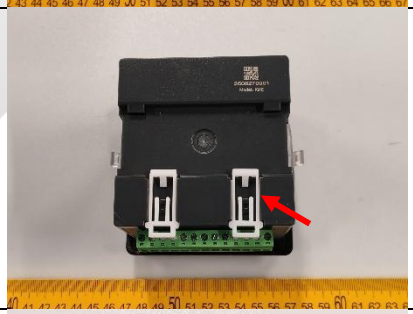
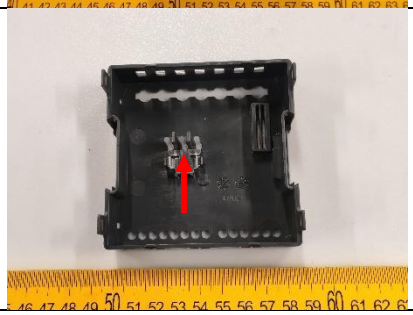
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

1. TESTED SUBJECT DESCRIPTION

Sample No.	Description (Material, colour)	Photograph/Location
01	Transparent soft plastic film	
02	Black soft plastic label	
03	Black hard plastic enclosure	
04	Transparent hard plastic cover	
05	Black rubber button	

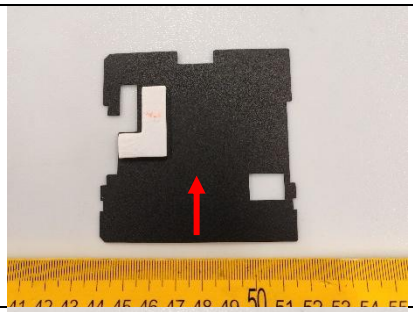
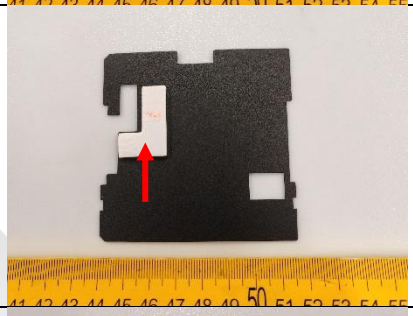
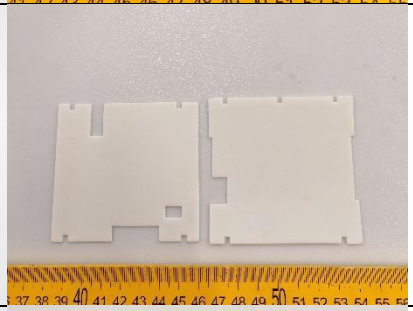
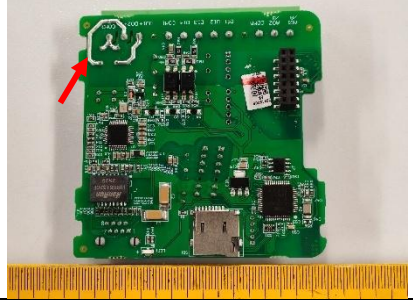
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
06	Black rubber ring	
07	Transparent hard plastic bracket	
08	Black soft plastic label	
09	White hard plastic bracket	
10	Transparent hard plastic bracket	

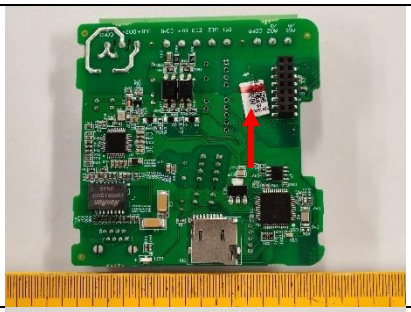
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
11	Black soft plastic slice	
12	White sponge cushion	
13	White soft plastic slice	
14	Green hard PCB	
15	Silver metal solder	

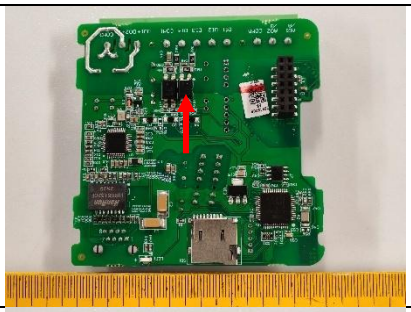
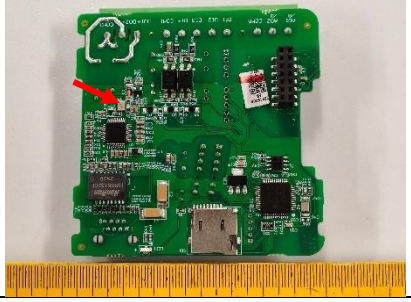
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
16	White soft plastic label	
17	Black hard plastic socket	
18	Golden metal pin	
19	Black resistor	
20	Brown capacitor	

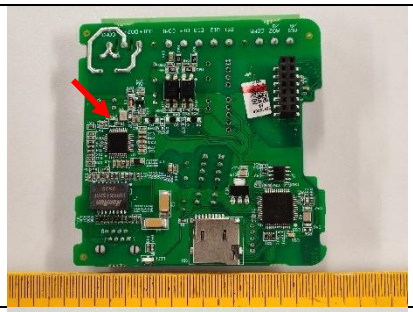
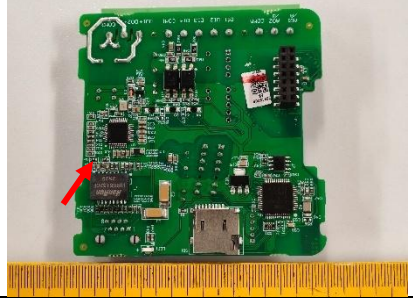
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
21	Black hard IC	
22	Black resistor	
23	Black triode	
24	Golden metal IC	
25	Silvery metal IC	

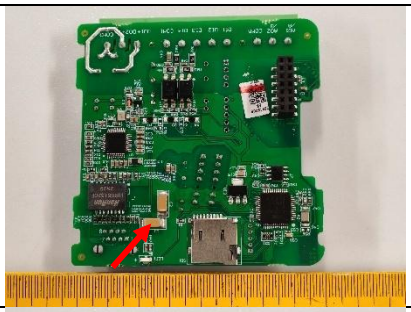
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
26	White capacitor	
27	Black hard IC	
28	Silvery metal pin	
29	Black capacitor	
30	Black resistor	

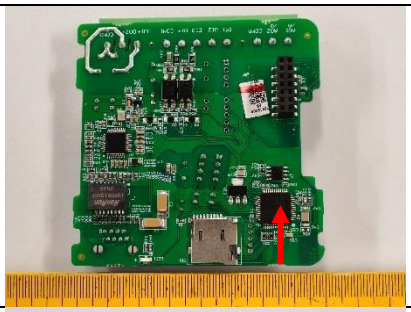
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
31	Brown capacitor	
32	White hard LED	
33	Black hard IC	
34	Silvery metal pin	
35	Black hard IC	

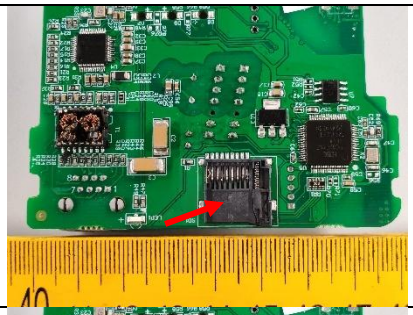
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
36	Black hard IC	
37	Silvery metal pin	
38	Black hard IC	
39	Black hard plastic cover	
40	Silvery metal cover	

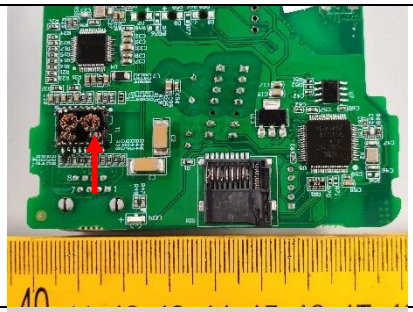
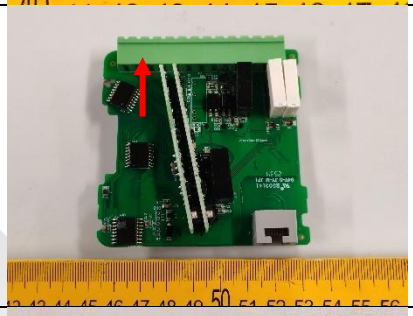
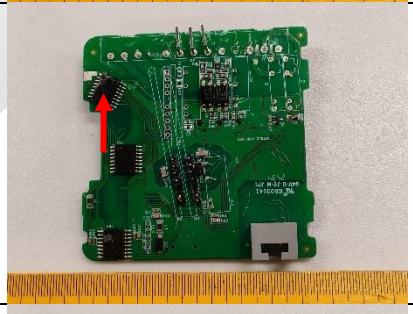
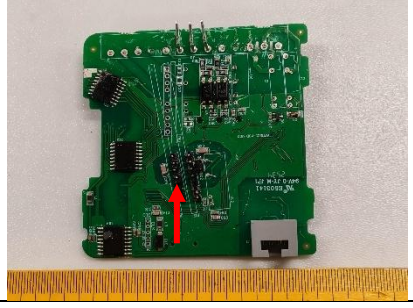
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
41	Black hard plastic base	
42	Golden metal pin	
43	Silver metal spring	
44	Black hard plastic bracket	
45	Golden metal wire	

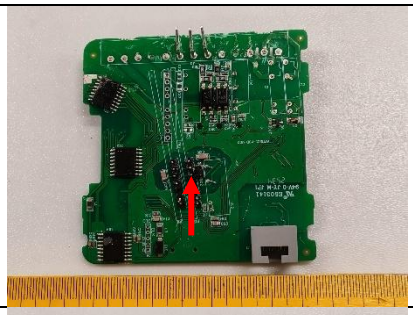
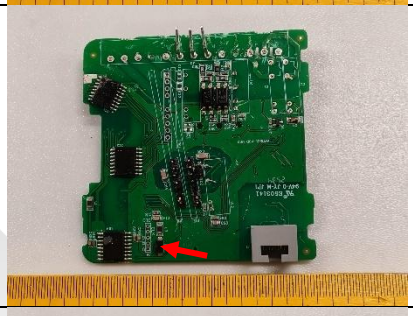
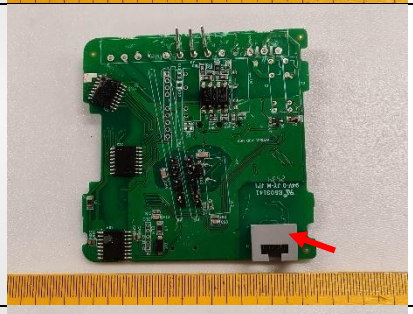
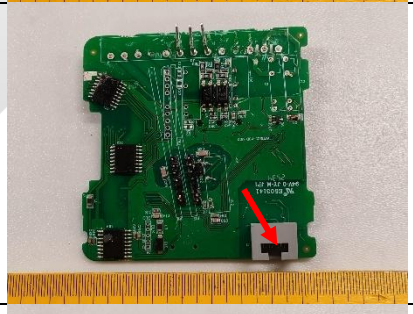
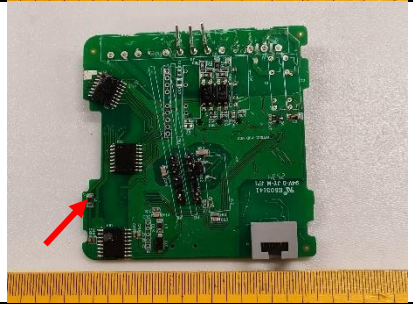
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
46	Black metal magnet	
47	Green hard plastic socket	
48	Silvery metal pin	
49	Black hard IC	
50	Black hard plastic bracket	

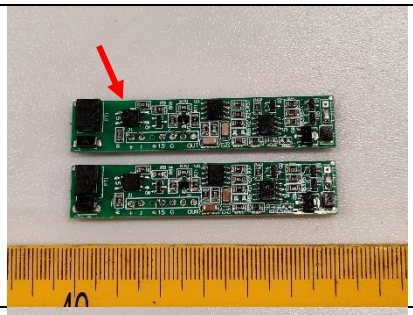
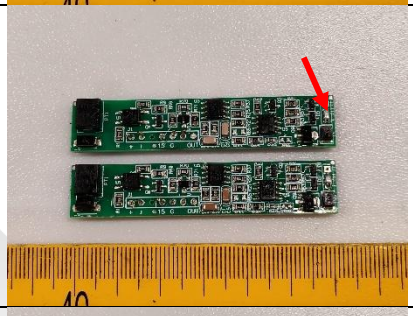
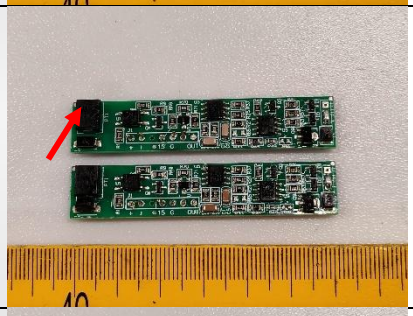
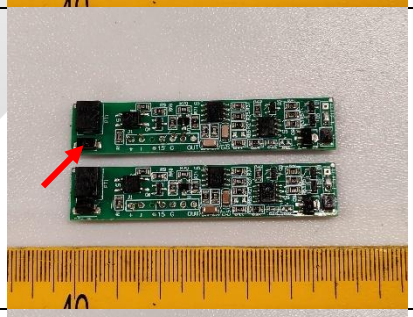
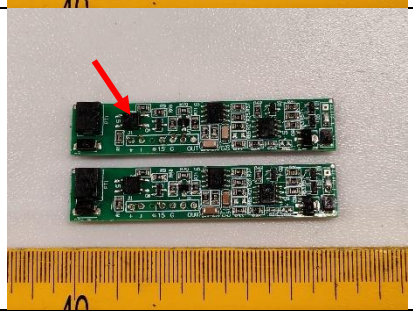
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
51	Golden metal pin	
52	Black diode	
53	Gray hard plastic frame	
54	Silvery metal pin	
55	Black capacitor	

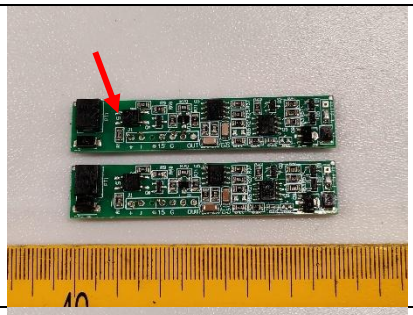
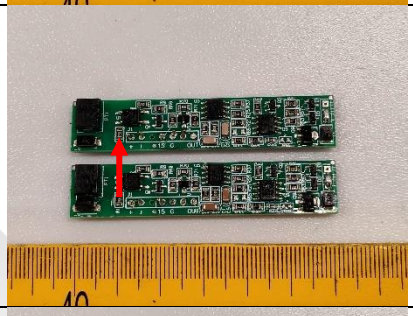
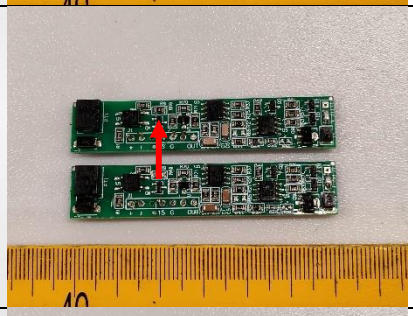
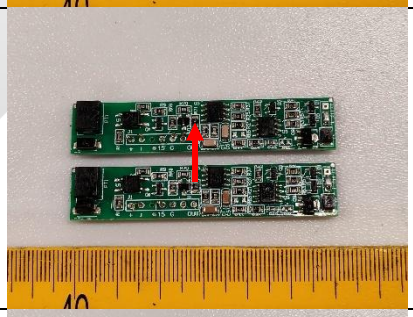
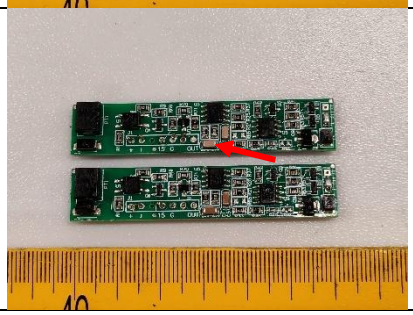
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
56	Green hard PCB	
57	Silver metal solder	
58	Black hard IC	
59	Black diode	
60	Black hard IC	

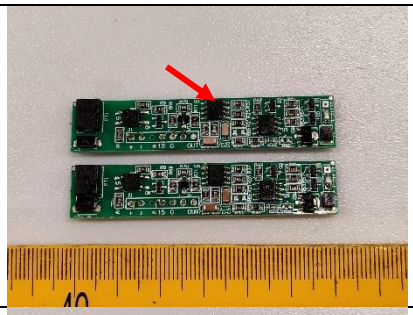
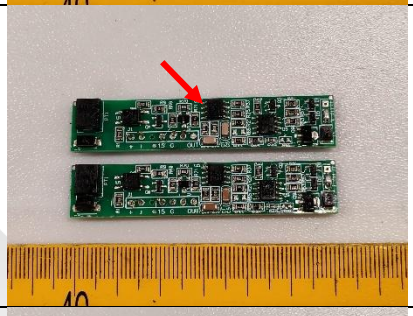
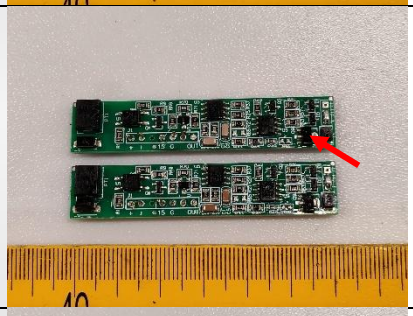
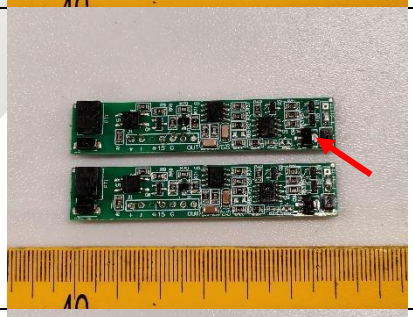
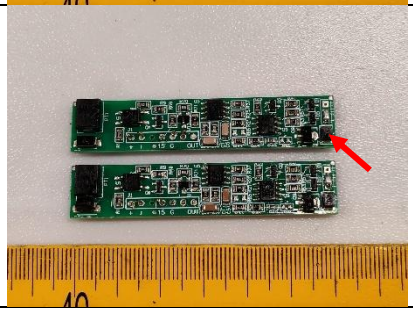
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
61	Silvery metal pin	
62	Black resistor	
63	Black triode	
64	Black resistor	
65	Brown capacitor	

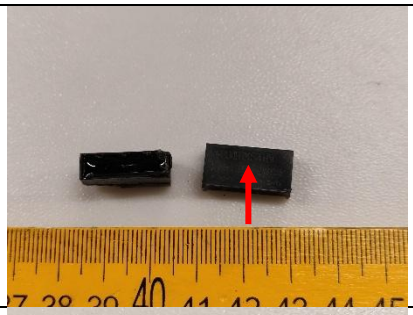
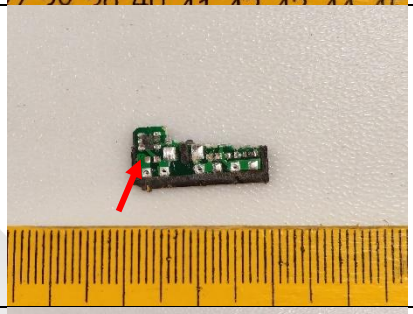
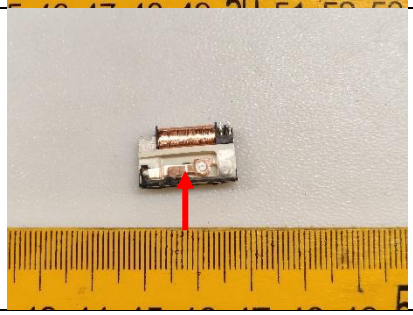
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
66	Black hard IC	
67	Silvery metal pin	
68	Black hard IC	
69	Silvery metal pin	
70	Black hard IC	

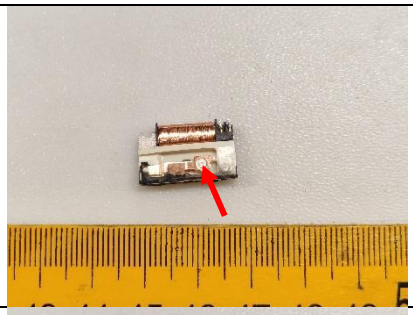
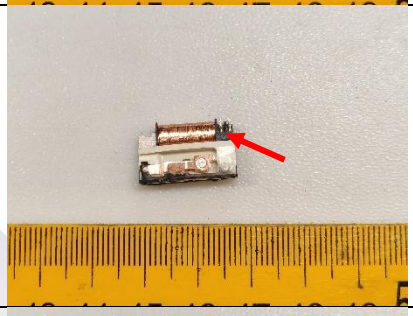
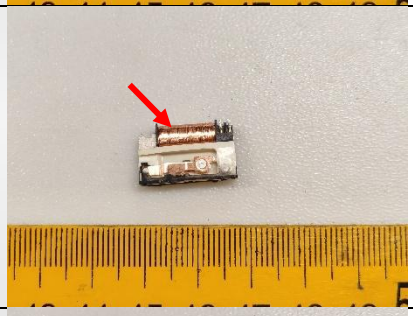
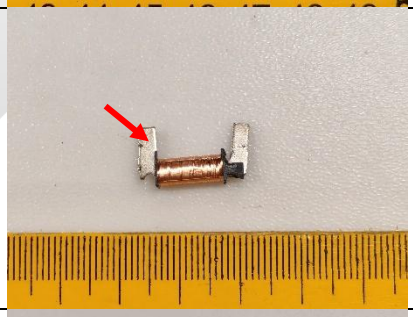
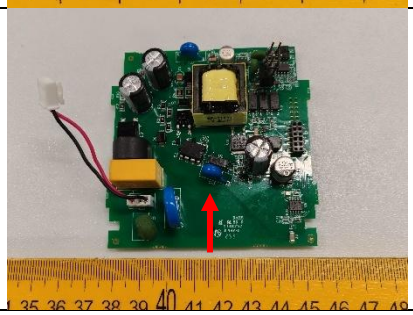
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
71	Black hard plastic shell	
72	Green hard plastic plate	
73	White hard plastic shell	
74	White hard plastic base	
75	Golden metal slice	

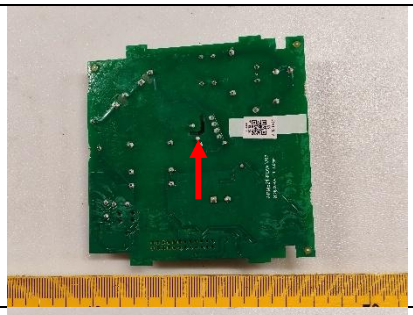
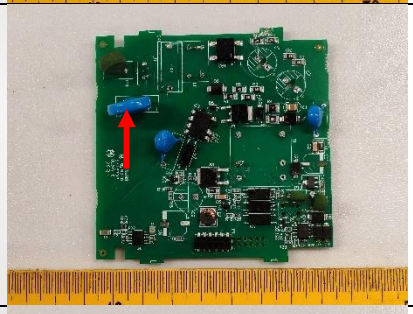
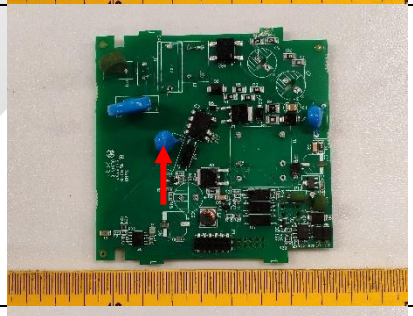
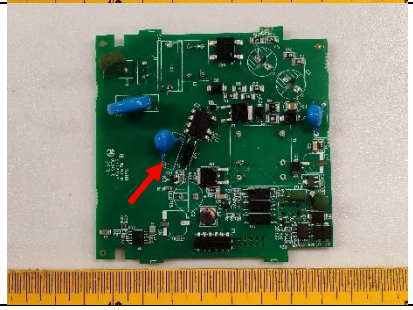
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
76	Silver alloy contact	
77	Black hard plastic bracket	
78	Golden metal wire	
79	Silvery metal bracket	
80	Green hard PCB	

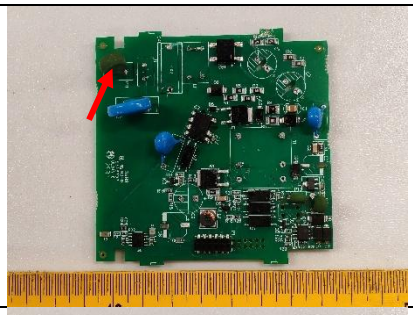
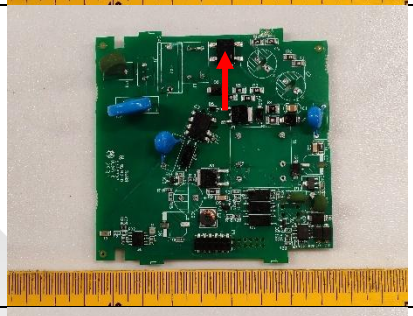
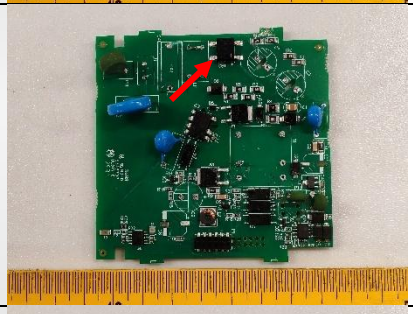
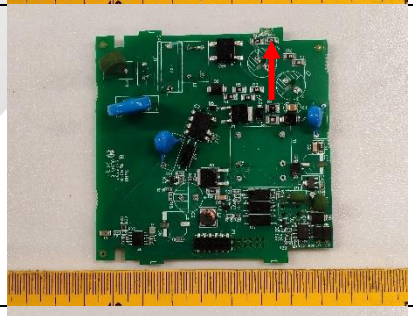
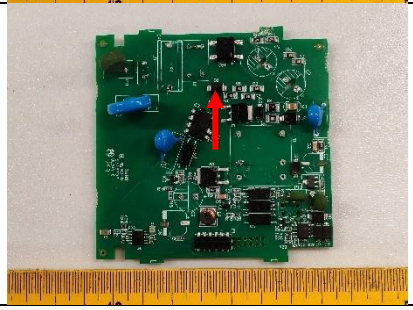
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
81	Silver metal solder	
82	White soft plastic label	
83	Blue capacitor	
84	Blue capacitor	
85	Silvery metal pin	

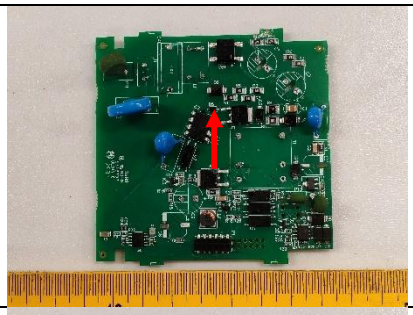
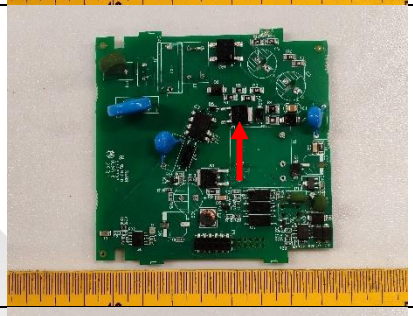
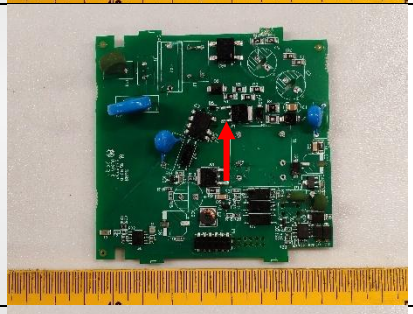
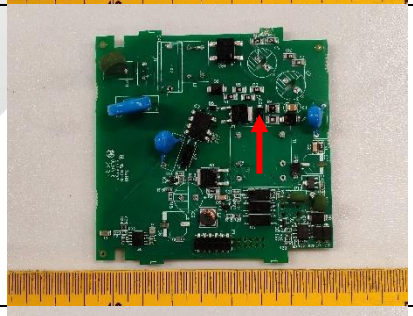
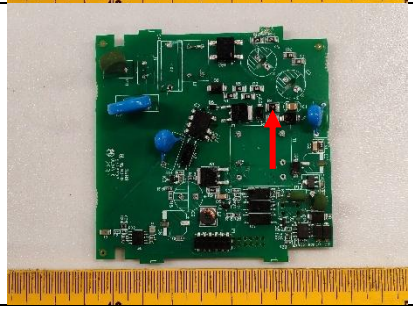
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
86	Green hard IC	
87	Black hard IC	
88	Silvery metal pin	
89	Black resistor	
90	Black diode	

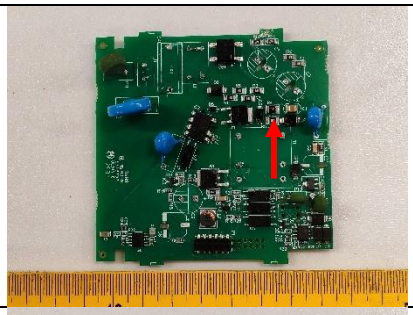
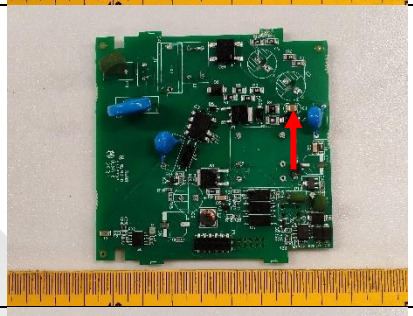
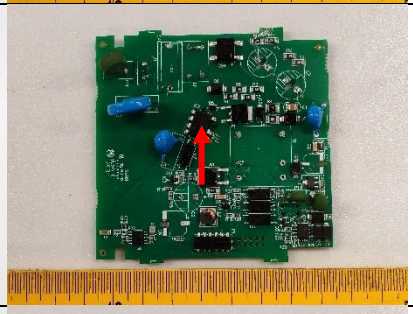
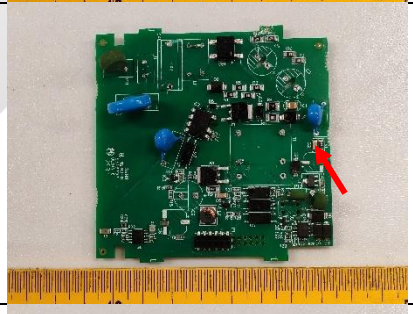
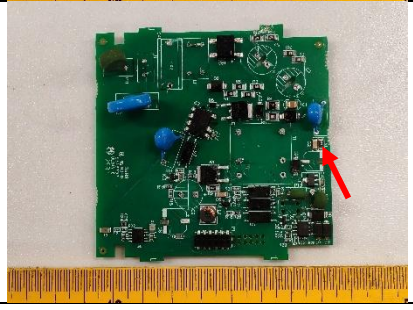
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
91	Black hard IC	
92	Black hard IC	
93	Silvery metal pin	
94	Black diode	
95	Black resistor	

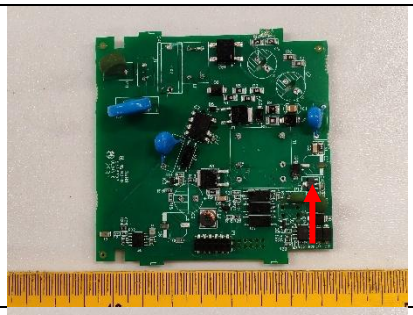
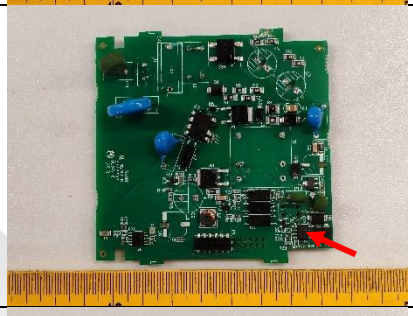
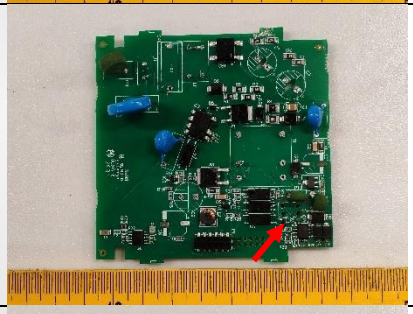
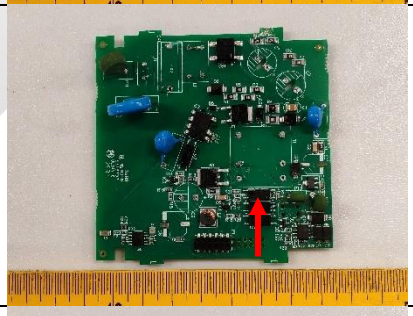
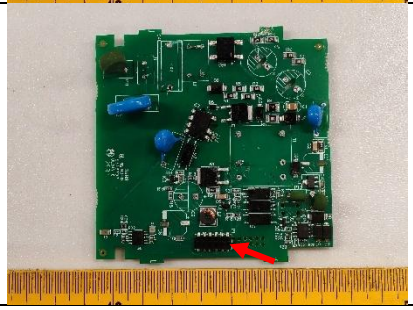
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
96	Black resistor	
97	Brown capacitor	
98	Black hard IC	
99	Brown capacitor	
100	Black resistor	

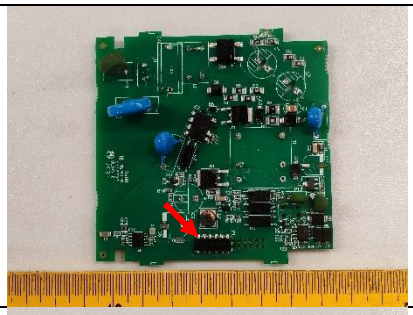
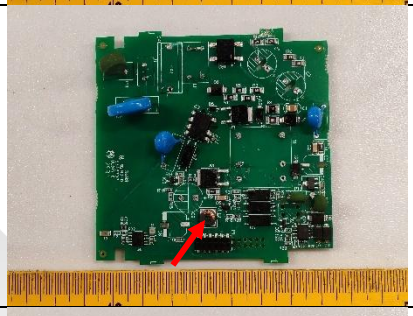
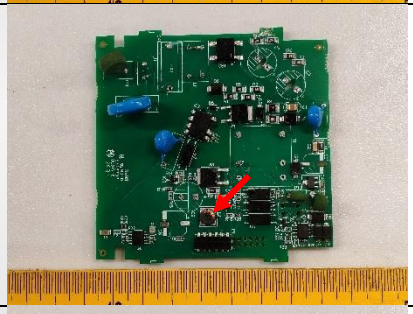
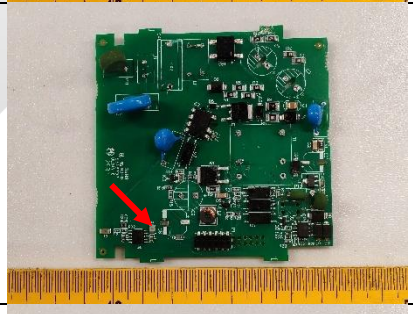
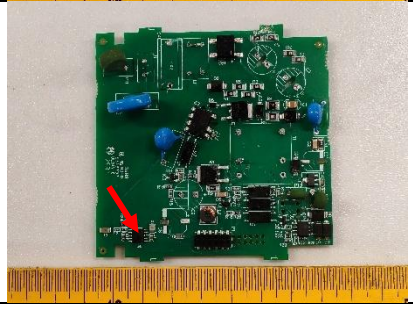
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
101	Black hard IC	
102	Black hard IC	
103	Black triode	
104	Black hard IC	
105	Black hard plastic socket	

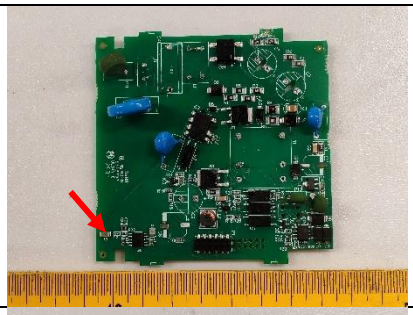
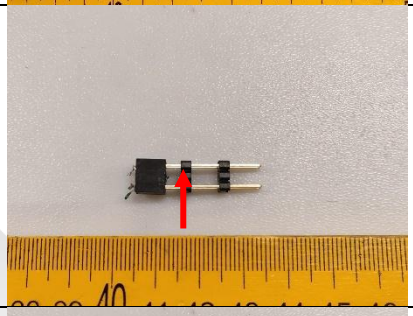
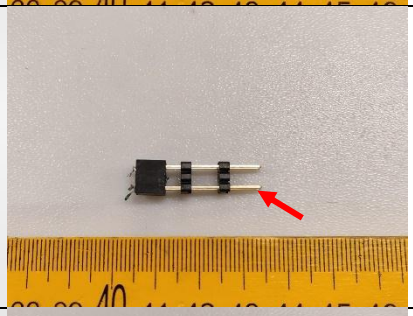
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
106	Golden metal pin	
107	Black metal magnet	
108	Golden metal wire	
109	Silvery metal IC	
110	Black hard IC	

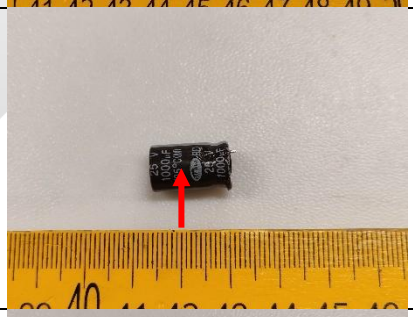
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
111	Gray capacitor	
112	Black hard plastic bracket	
113	Golden metal pin	
114	Black soft plastic film	
115	Silvery metal shell	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
116	Silvery metal pin	
117	Brown paper film	
118	Black rubber cushion	
119	Black soft plastic film	
120	Silvery metal shell	

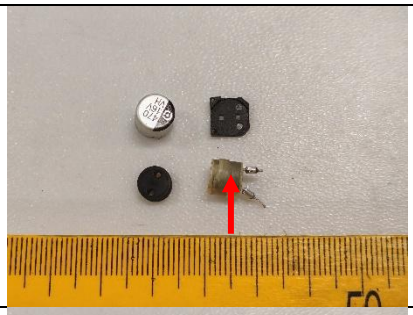
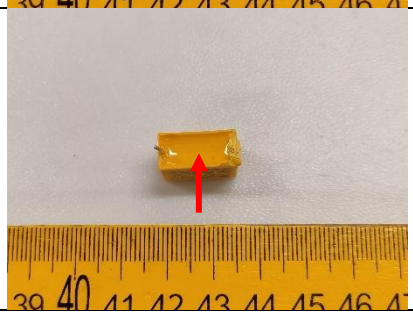
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
121	Silvery metal pin	
122	Gray paper film	
123	Black rubber cushion	
124	Silvery metal shell	
125	Silvery metal pin	

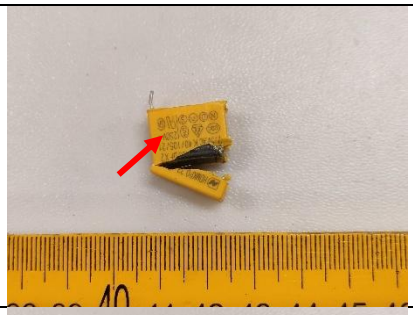
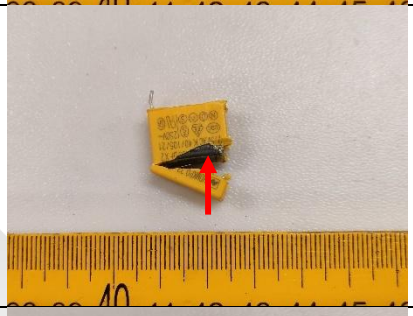
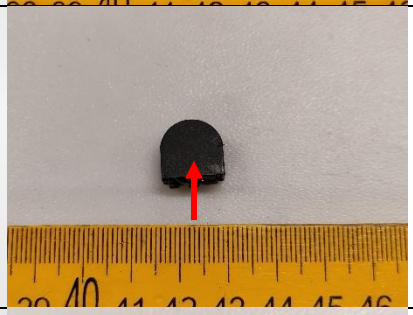
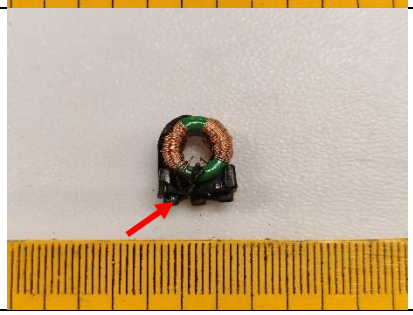
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
126	Brown paper film	
127	Black rubber cushion	
128	Black hard plastic base	
129	Silvery metal pin	
130	Yellow potting compound	

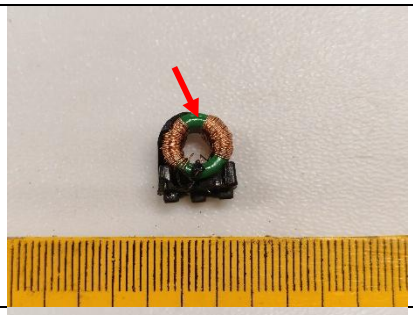
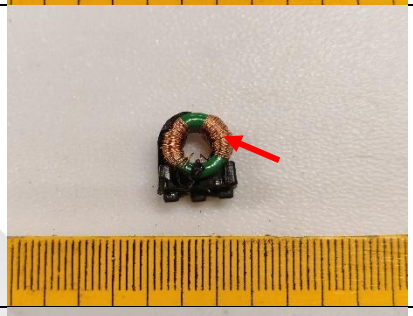
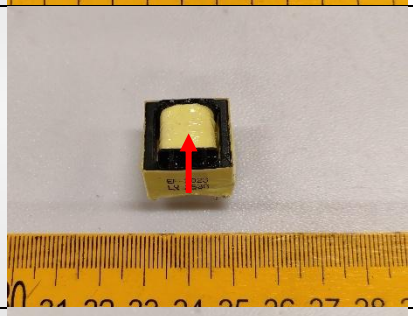
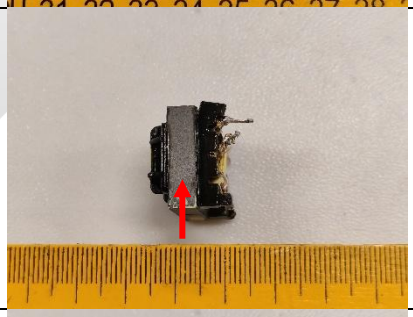
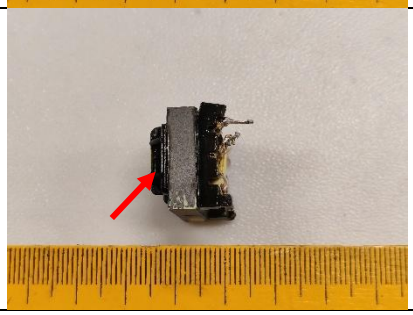
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
131	Yellow hard plastic shell	
132	Silvery soft plastic film	
133	Black hard plastic shell	
134	Black glue	
135	Black hard plastic base	

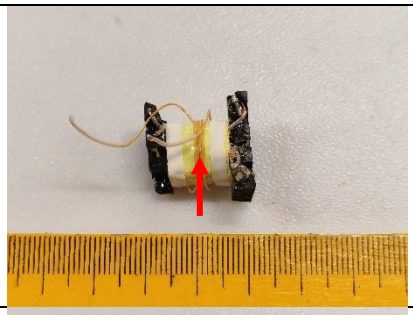
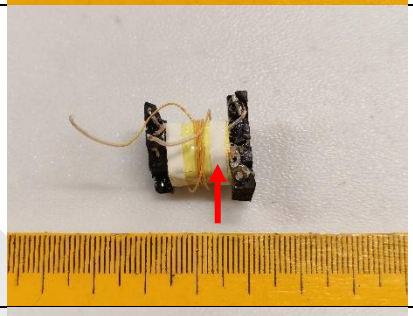
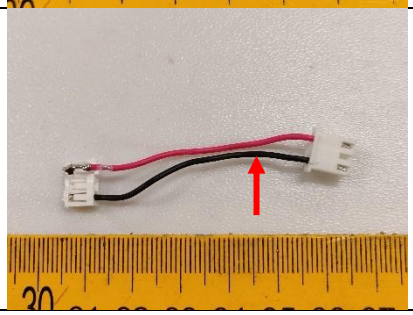
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
136	Green metal ring	
137	Golden metal wire	
138	Yellow soft plastic adhesive tape	
139	Black metal magnet	
140	Black hard plastic frame	

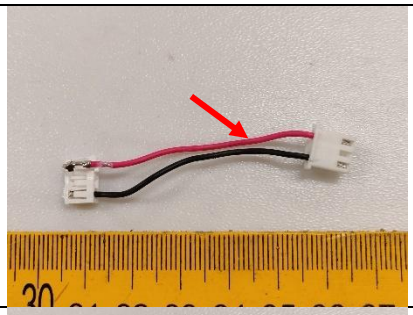
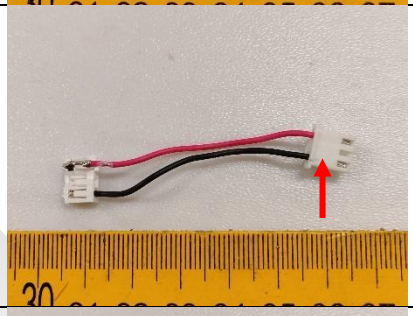
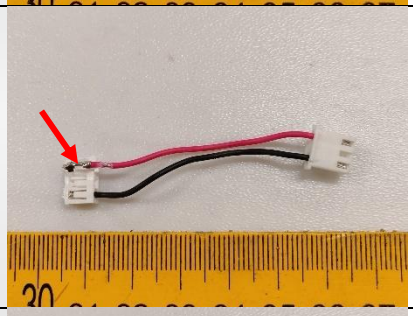
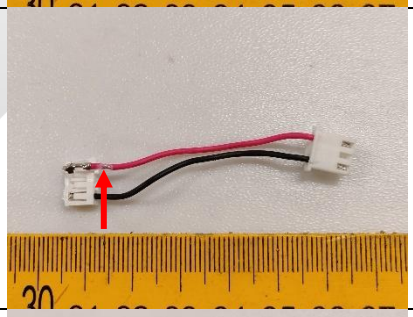
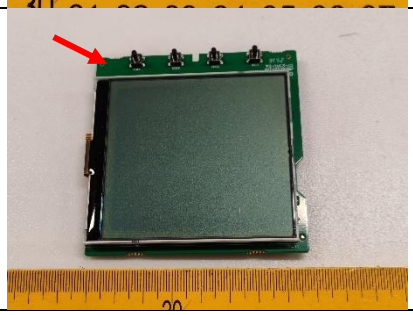
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
141	Yellow soft plastic wire jacket	
142	White soft plastic adhesive tape	
143	Transparent soft plastic sheath	
144	Golden metal wire	
145	Black soft plastic wire jacket	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
146	Pink soft plastic wire jacket	
147	White hard plastic plug	
148	Silvery metal pin	
149	Silvery metal wire	
150	Green hard PCB	

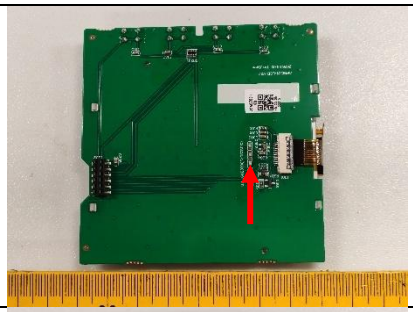
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
151	Silver metal solder	
152	White soft plastic label	
153	Gray capacitor	
154	Black hard IC	
155	Black resistor	

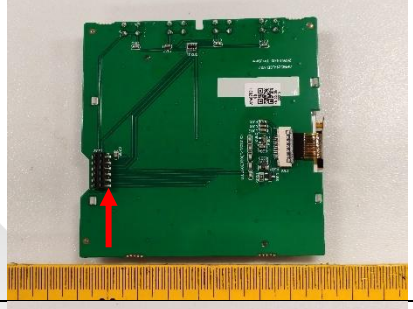
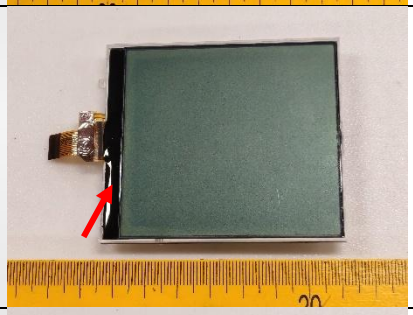
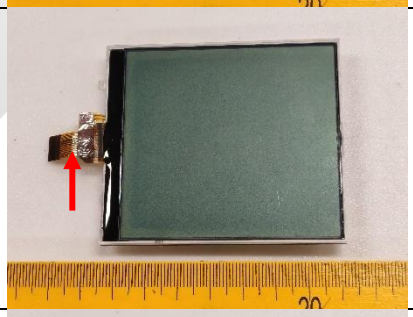
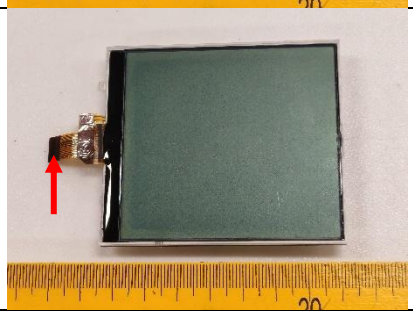
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
156	White capacitor	
157	White hard plastic socket	
158	Black hard plastic component	
159	Black resistor	
160	Black triode	

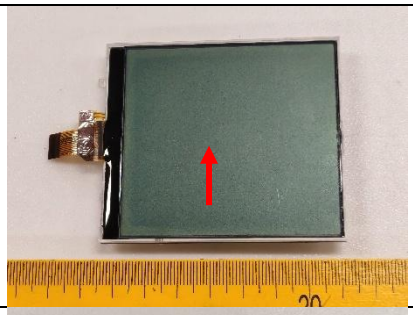
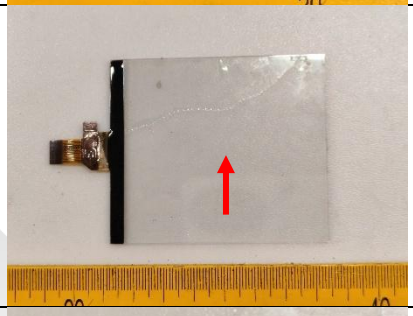
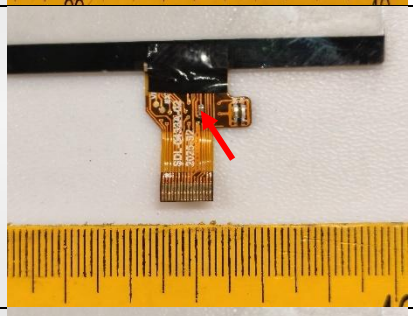
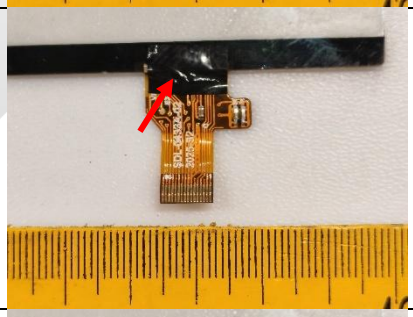
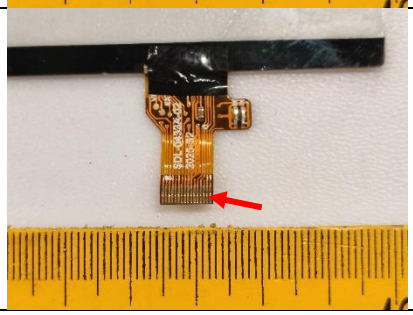
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
161	Black hard plastic socket	
162	Golden metal pin	
163	Black glue	
164	Yellow soft plastic wire harness	
165	Brown hard plastic slice	

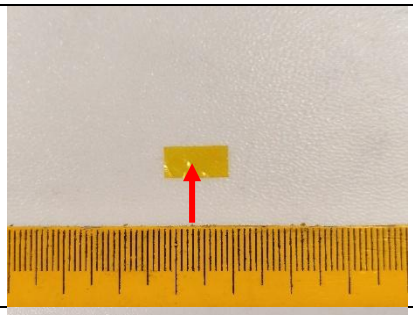
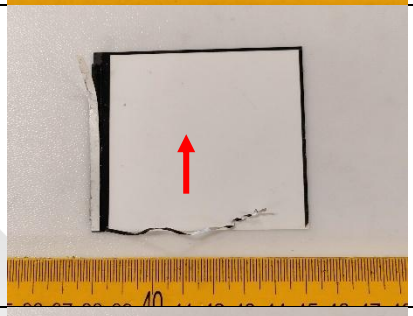
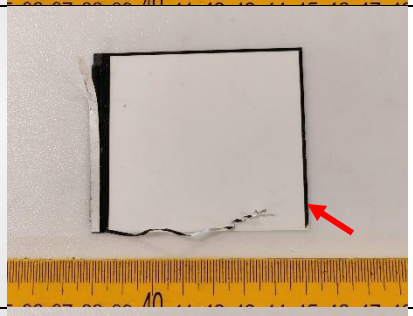
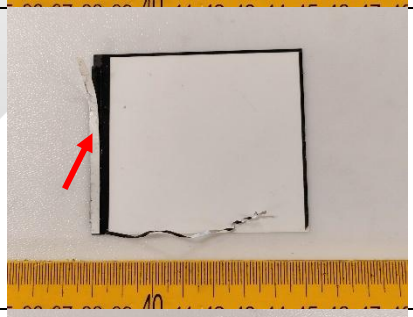
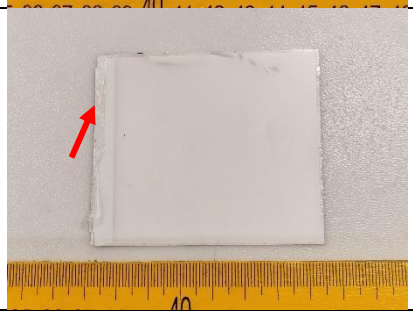
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
166	Gray soft plastic film	
167	Transparent glass	
168	Brown capacitor	
169	Black soft plastic adhesive tape	
170	Golden metal pin	

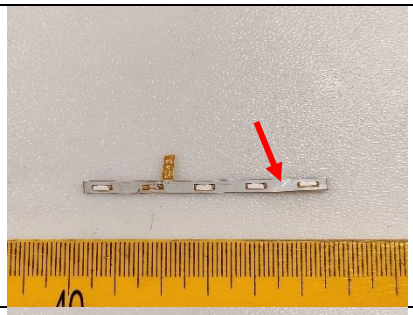
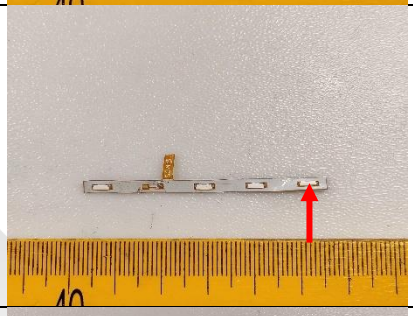
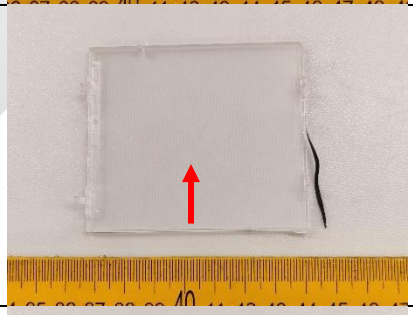
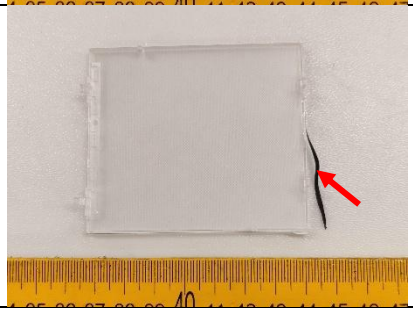
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
171	Yellow soft plastic film	
172	White soft plastic film	
173	Black soft plastic adhesive tape	
174	White soft plastic adhesive tape	
175	Transparent soft plastic adhesive tape	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

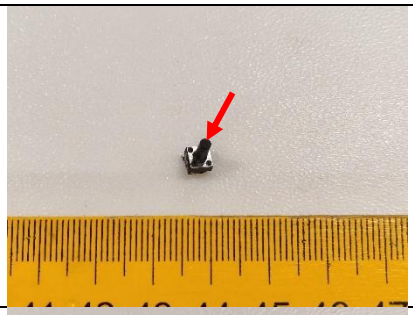
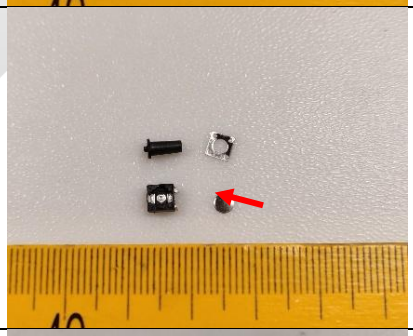
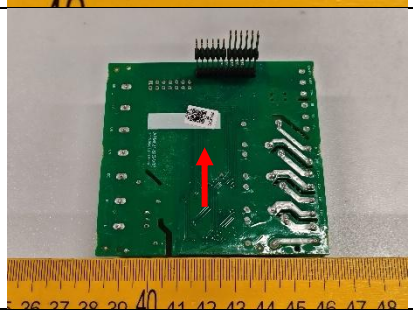
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
176	White soft plastic strip	
177	White hard LED	
178	White soft plastic film	
179	Transparent hard plastic frame	
180	Black soft plastic adhesive tape	

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

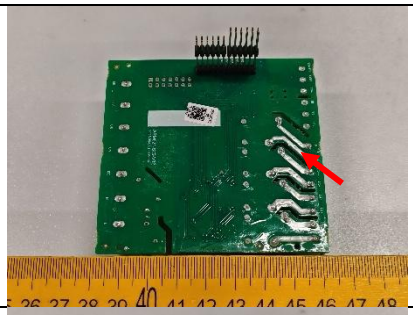
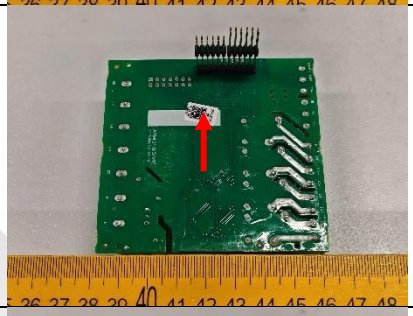
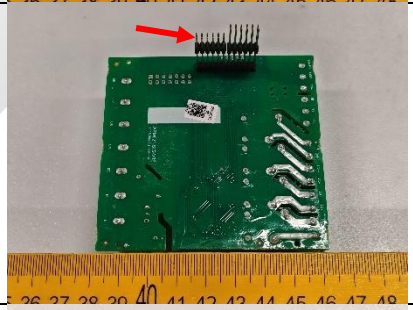
Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
181	Black hard plastic button	
182	Black hard plastic base	
183	Silvery metal frame	
184	Silvery metal slice	
185	Green hard PCB	

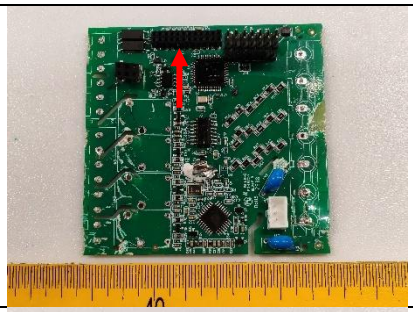
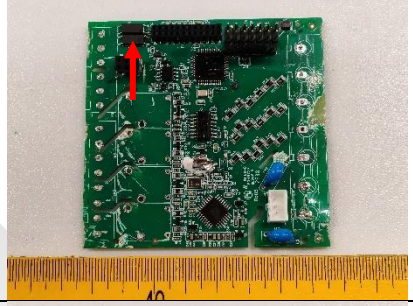
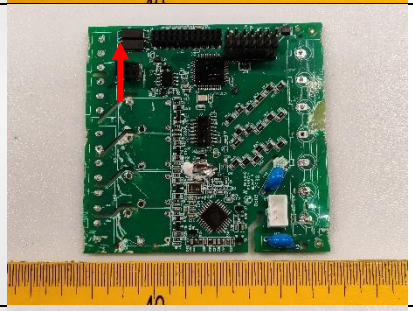
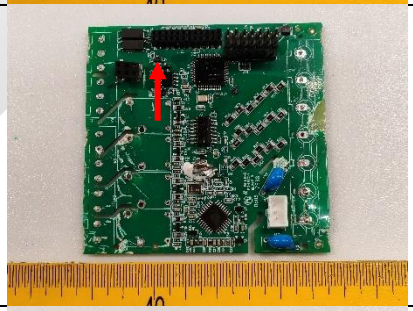
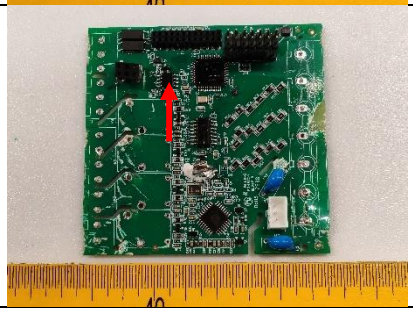
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
186	Silver metal solder	
187	White soft plastic label	
188	Black hard plastic bracket	
189	Golden metal pin	
190	Black hard plastic socket	

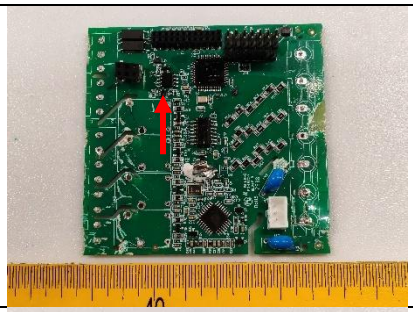
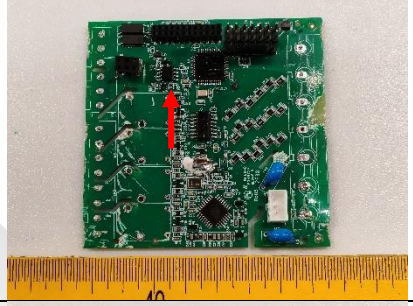
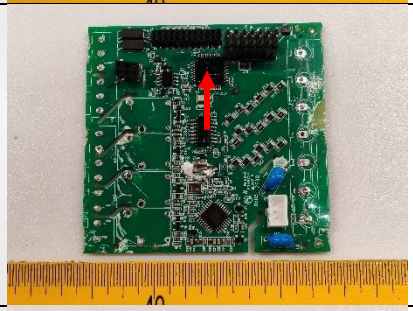
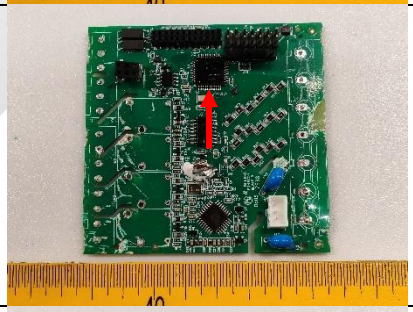
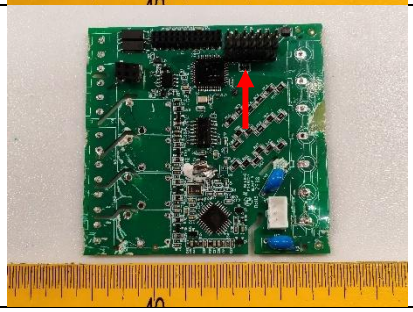
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
191	Golden metal pin	
192	Black hard IC	
193	Silvery metal pin	
194	Black triode	
195	Black hard IC	

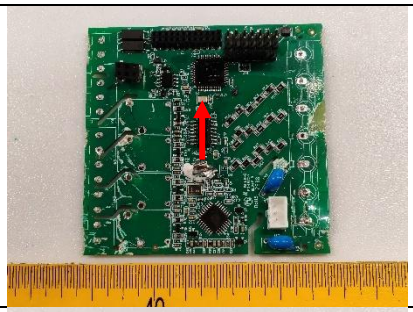
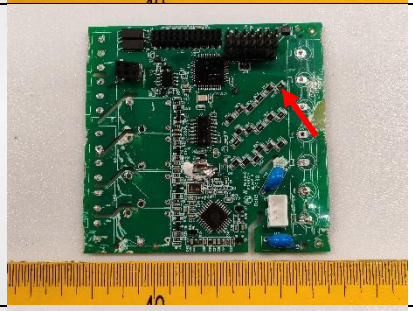
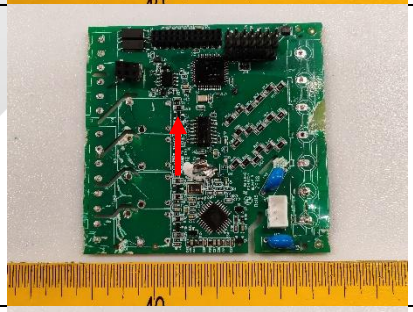
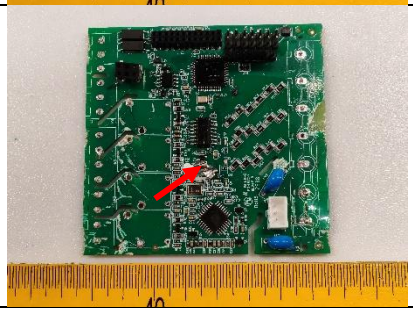
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
196	Black hard IC	
197	Black resistor	
198	Black hard IC	
199	Silvery metal pin	
200	Black hard IC	

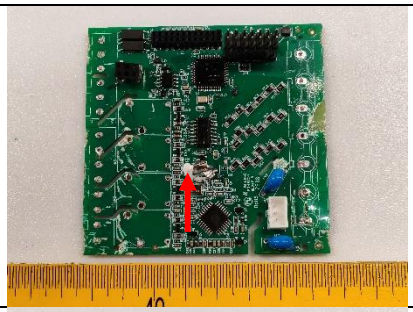
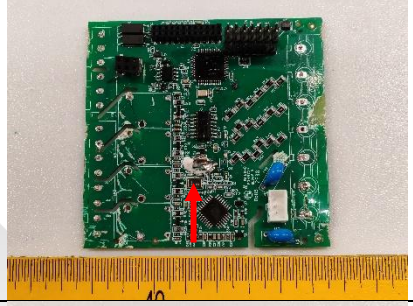
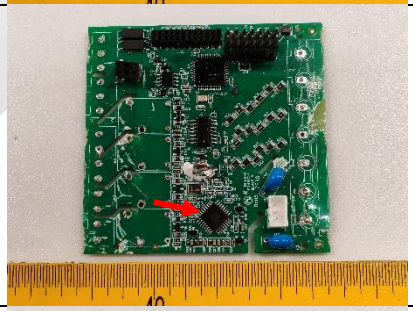
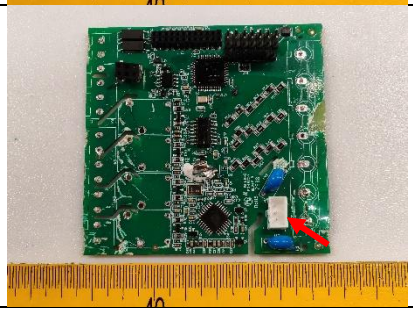
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
201	Silvery metal IC	
202	White capacitor	
203	Black resistor	
204	Black triode	
205	Silvery metal touches	

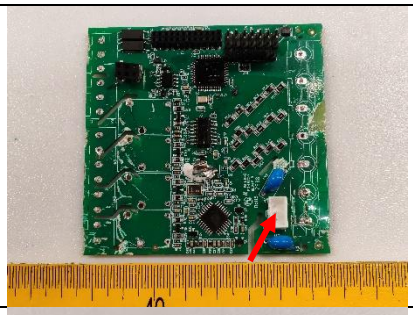
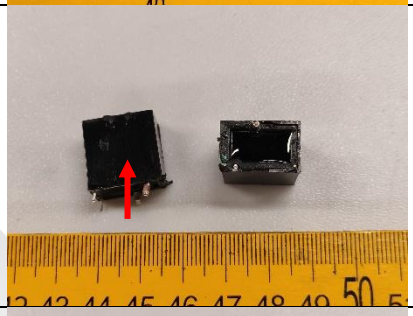
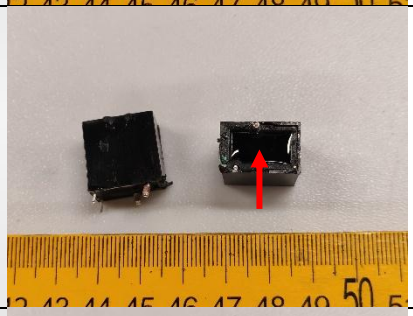
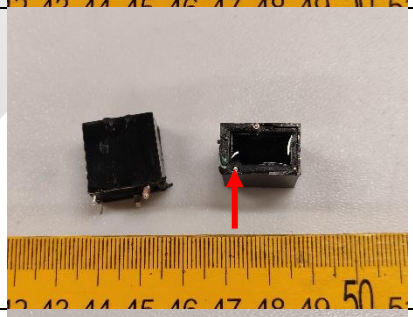
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
206	White glue	
207	Silvery metal IC	
208	Black hard IC	
209	Silvery metal pin	
210	White hard plastic socket	

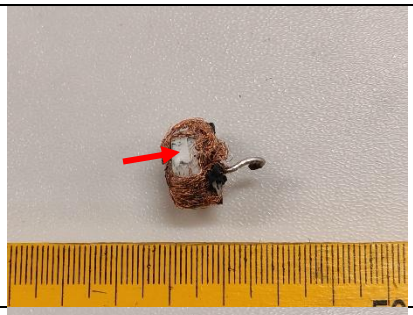
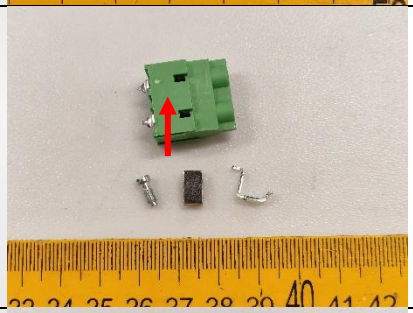
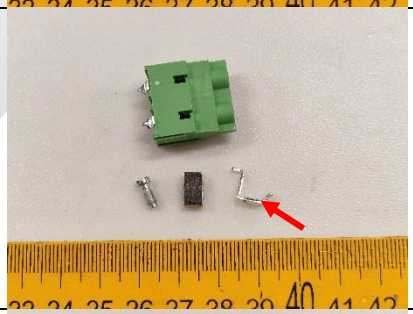
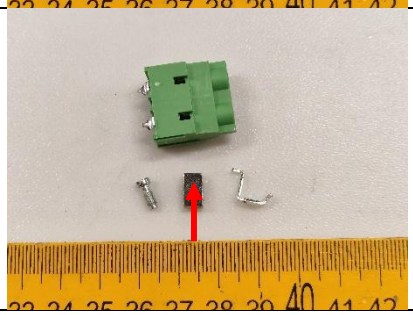
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
211	Silvery metal pin	
212	Black hard plastic shell	
213	Black potting compound	
214	Silvery metal pin	
215	Golden metal wire	

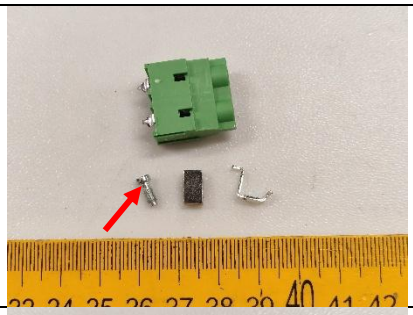
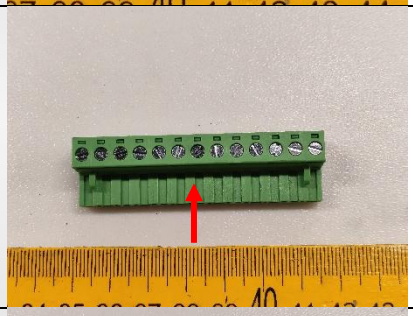
TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
216	White hard plastic ring	
217	Silvery metal ring	
218	Green hard plastic plug	
219	Silvery metal bracket	
220	Silvery metal block	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
221	Silvery metal screw	
222	Yellow soft plastic ring	
223	Green hard plastic plug	
224	Silvery metal screw	
225	Silvery metal bracket	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Description (Material, colour)	Photograph/Location
226	Silvery metal block	

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017.
For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
01	BL	BL	BL	BL	BL	BL	BL	BL	BL
02	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	BL	BL	BL	BL	BL	BL	BL	BL	BL
04	BL	BL	BL	BL	BL	BL	BL	BL	BL
05	BL	BL	BL	BL	BL	BL	BL	BL	BL
06	BL	BL	BL	BL	BL	BL	BL	BL	BL
07	BL	BL	BL	BL	BL	BL	BL	BL	BL
08	BL	BL	BL	BL	BL	BL	BL	BL	BL
09	BL	BL	BL	BL	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL	BL	BL	BL	BL
12	BL	BL	BL	BL	BL	BL	BL	BL	BL
13	BL	BL	BL	BL	BL	BL	BL	BL	BL
14	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
15	BL	BL	BL	BL	NA	NA	NA	NA	NA
16	BL	BL	BL	BL	BL	BL	BL	BL	BL
17	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
18	BL	BL	BL	BL	NA	NA	NA	NA	NA
19	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
20	BL	BL	BL	BL	BL	BL	BL	BL	BL

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
21	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
22	BL	BL	BL	BL	BL	BL	BL	BL	BL
23	BL	BL	BL	BL	BL	BL	BL	BL	BL
24	BL	BL	BL	BL	BL	BL	BL	BL	BL
25	BL	BL	BL	BL	NA	NA	NA	NA	NA
26	BL	BL	BL	BL	BL	BL	BL	BL	BL
27	BL	BL	BL	BL	BL	BL	BL	BL	BL
28	BL	BL	BL	BL	NA	NA	NA	NA	NA
29	BL	BL	BL	BL	BL	BL	BL	BL	BL
30	BL	BL	BL	BL	BL	BL	BL	BL	BL
31	BL	BL	BL	BL	BL	BL	BL	BL	BL
32	BL	BL	BL	BL	BL	BL	BL	BL	BL
33	BL	BL	BL	BL	BL	BL	BL	BL	BL
34	BL	BL	BL	BL	NA	NA	NA	NA	NA
35	BL	BL	BL	BL	BL	BL	BL	BL	BL
36	BL	BL	BL	BL	BL	BL	BL	BL	BL
37	BL	BL	BL	BL	NA	NA	NA	NA	NA
38	BL	BL	BL	BL	BL	BL	BL	BL	BL
39	BL	BL	BL	BL	BL	BL	BL	BL	BL
40	BL	BL	BL	**Inc.**[(a)]	NA	NA	NA	NA	NA
41	BL	BL	BL	BL	BL	BL	BL	BL	BL
42	BL	BL	BL	BL	NA	NA	NA	NA	NA
43	BL	BL	BL	BL	NA	NA	NA	NA	NA
44	BL	BL	BL	BL	BL	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
45	BL	BL	BL	BL	NA	NA	NA	NA	NA
46	BL	BL	BL	BL	NA	NA	NA	NA	NA
47	BL	BL	BL	BL	BL	BL	BL	BL	BL
48	BL	BL	BL	BL	NA	NA	NA	NA	NA
49	BL	BL	BL	BL	BL	BL	BL	BL	BL
50	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
51	BL	BL	BL	BL	NA	NA	NA	NA	NA
52	BL	BL	BL	BL	BL	BL	BL	BL	BL
53	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
54	BL	BL	BL	BL	NA	NA	NA	NA	NA
55	BL	BL	BL	BL	BL	BL	BL	BL	BL
56	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
57	BL	BL	BL	BL	NA	NA	NA	NA	NA
58	BL	BL	BL	BL	BL	BL	BL	BL	BL
59	BL	BL	BL	BL	BL	BL	BL	BL	BL
60	BL	BL	BL	BL	BL	BL	BL	BL	BL
61	BL	BL	BL	BL	NA	NA	NA	NA	NA
62	BL	BL	BL	BL	BL	BL	BL	BL	BL
63	BL	BL	BL	BL	BL	BL	BL	BL	BL
64	BL	BL	BL	BL	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	BL	BL	BL	BL	BL
66	BL	BL	BL	BL	BL	BL	BL	BL	BL
67	BL	BL	BL	BL	NA	NA	NA	NA	NA
68	BL	BL	BL	BL	BL	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
69	BL	BL	BL	BL	NA	NA	NA	NA	NA
70	BL	BL	BL	BL	BL	BL	BL	BL	BL
71	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
72	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
73	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
74	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
75	BL	BL	BL	BL	NA	NA	NA	NA	NA
76	BL	BL	BL	BL	NA	NA	NA	NA	NA
77	BL	BL	BL	BL	BL	BL	BL	BL	BL
78	BL	BL	BL	BL	NA	NA	NA	NA	NA
79	BL	BL	BL	BL	NA	NA	NA	NA	NA
80	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
81	BL	BL	BL	BL	NA	NA	NA	NA	NA
82	BL	BL	BL	BL	BL	BL	BL	BL	BL
83	BL	BL	BL	BL	BL	BL	BL	BL	BL
84	BL	BL	BL	BL	BL	BL	BL	BL	BL
85	BL	BL	BL	BL	NA	NA	NA	NA	NA
86	BL	BL	BL	BL	BL	BL	BL	BL	BL
87	BL	BL	BL	BL	BL	BL	BL	BL	BL
88	BL	BL	BL	BL	NA	NA	NA	NA	NA
89	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
90	BL	BL	BL	BL	BL	BL	BL	BL	BL
91	BL	BL	BL	BL	BL	BL	BL	BL	BL
92	BL	BL	BL	BL	BL	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
93	BL	BL	BL	BL	NA	NA	NA	NA	NA
94	BL	BL	BL	BL	BL	BL	BL	BL	BL
95	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
96	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
97	BL	BL	BL	BL	BL	BL	BL	BL	BL
98	BL	BL	BL	BL	BL	BL	BL	BL	BL
99	BL	BL	BL	BL	BL	BL	BL	BL	BL
100	BL	BL	BL	BL	BL	BL	BL	BL	BL
101	BL	BL	BL	BL	BL	BL	BL	BL	BL
102	BL	BL	BL	BL	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	BL	BL	BL	BL	BL
104	BL	BL	BL	BL	BL	BL	BL	BL	BL
105	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
106	BL	BL	BL	BL	NA	NA	NA	NA	NA
107	BL	BL	BL	BL	NA	NA	NA	NA	NA
108	BL	BL	BL	BL	NA	NA	NA	NA	NA
109	BL	BL	BL	BL	NA	NA	NA	NA	NA
110	BL	BL	BL	BL	BL	BL	BL	BL	BL
111	BL	BL	BL	BL	BL	BL	BL	BL	BL
112	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
113	BL	BL	BL	BL	NA	NA	NA	NA	NA
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	NA	NA	NA	NA	NA
116	BL	BL	BL	BL	NA	NA	NA	NA	NA

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
117	BL	BL	BL	BL	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	BL	BL	BL	BL	BL
119	BL	BL	BL	BL	BL	BL	BL	BL	BL
120	BL	BL	BL	BL	NA	NA	NA	NA	NA
121	BL	BL	BL	BL	NA	NA	NA	NA	NA
122	BL	BL	BL	BL	BL	BL	BL	BL	BL
123	BL	BL	BL	BL	BL	BL	BL	BL	BL
124	BL	BL	BL	BL	NA	NA	NA	NA	NA
125	BL	BL	BL	BL	NA	NA	NA	NA	NA
126	BL	BL	BL	BL	BL	BL	BL	BL	BL
127	BL	BL	BL	BL	BL	BL	BL	BL	BL
128	BL	BL	BL	BL	BL	BL	BL	BL	BL
129	BL	BL	BL	BL	NA	NA	NA	NA	NA
130	BL	BL	BL	BL	BL	BL	BL	BL	BL
131	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
132	BL	BL	BL	BL	BL	BL	BL	BL	BL
133	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
134	BL	BL	BL	BL	BL	BL	BL	BL	BL
135	BL	BL	BL	BL	BL	BL	BL	BL	BL
136	BL	BL	BL	BL	NA	NA	NA	NA	NA
137	BL	BL	BL	BL	NA	NA	NA	NA	NA
138	BL	BL	BL	BL	BL	BL	BL	BL	BL
139	BL	BL	BL	BL	NA	NA	NA	NA	NA
140	BL	BL	BL	BL	BL	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
141	BL	BL	BL	BL	BL	BL	BL	BL	BL
142	BL	BL	BL	BL	BL	BL	BL	BL	BL
143	BL	BL	BL	BL	BL	BL	BL	BL	BL
144	BL	BL	BL	BL	NA	NA	NA	NA	NA
145	BL	BL	BL	BL	BL	BL	BL	BL	BL
146	BL	BL	BL	BL	BL	BL	BL	BL	BL
147	BL	BL	BL	BL	BL	BL	BL	BL	BL
148	BL	BL	BL	BL	NA	NA	NA	NA	NA
149	BL	BL	BL	BL	NA	NA	NA	NA	NA
150	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
151	BL	BL	BL	BL	NA	NA	NA	NA	NA
152	BL	BL	BL	BL	BL	BL	BL	BL	BL
153	BL	BL	BL	BL	BL	BL	BL	BL	BL
154	BL	BL	BL	BL	BL	BL	BL	BL	BL
155	BL	BL	BL	BL	BL	BL	BL	BL	BL
156	BL	BL	BL	BL	BL	BL	BL	BL	BL
157	BL	BL	BL	BL	BL	BL	BL	BL	BL
158	BL	BL	BL	BL	BL	BL	BL	BL	BL
159	BL	BL	BL	BL	BL	BL	BL	BL	BL
160	BL	BL	BL	BL	BL	BL	BL	BL	BL
161	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
162	BL	BL	BL	BL	NA	NA	NA	NA	NA
163	BL	BL	BL	BL	BL	BL	BL	BL	BL
164	BL	BL	BL	BL	BL	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
165	BL	BL	BL	BL	BL	BL	BL	BL	BL
166	BL	BL	BL	BL	BL	BL	BL	BL	BL
167	BL	BL	BL	BL	NA	NA	NA	NA	NA
168	BL	BL	BL	BL	BL	BL	BL	BL	BL
169	BL	BL	BL	BL	BL	BL	BL	BL	BL
170	BL	BL	BL	BL	NA	NA	NA	NA	NA
171	BL	BL	BL	BL	BL	BL	BL	BL	BL
172	BL	BL	BL	BL	BL	BL	BL	BL	BL
173	BL	BL	BL	BL	BL	BL	BL	BL	BL
174	BL	BL	BL	BL	BL	BL	BL	BL	BL
175	BL	BL	BL	BL	BL	BL	BL	BL	BL
176	BL	BL	BL	BL	BL	BL	BL	BL	BL
177	BL	BL	BL	BL	BL	BL	BL	BL	BL
178	BL	BL	BL	BL	BL	BL	BL	BL	BL
179	BL	BL	BL	BL	BL	BL	BL	BL	BL
180	BL	BL	BL	BL	BL	BL	BL	BL	BL
181	BL	BL	BL	BL	BL	BL	BL	BL	BL
182	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
183	BL	BL	BL	BL	NA	NA	NA	NA	NA
184	BL	BL	BL	**Inc.**[(a)]	NA	NA	NA	NA	NA
185	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
186	BL	BL	BL	BL	NA	NA	NA	NA	NA
187	BL	BL	BL	BL	BL	BL	BL	BL	BL
188	BL	BL	BL	BL	BL	BL	BL	BL	BL

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
189	BL	BL	BL	BL	NA	NA	NA	NA	NA
190	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
191	BL	BL	BL	BL	NA	NA	NA	NA	NA
192	BL	BL	BL	BL	BL	BL	BL	BL	BL
193	BL	BL	BL	BL	NA	NA	NA	NA	NA
194	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
195	BL	BL	BL	BL	BL	BL	BL	BL	BL
196	BL	BL	BL	BL	BL	BL	BL	BL	BL
197	BL	BL	BL	BL	BL	BL	BL	BL	BL
198	BL	BL	BL	BL	BL	BL	BL	BL	BL
199	BL	BL	BL	BL	NA	NA	NA	NA	NA
200	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
201	BL	BL	BL	BL	NA	NA	NA	NA	NA
202	BL	BL	BL	BL	BL	BL	BL	BL	BL
203	BL	BL	BL	BL	BL	BL	BL	BL	BL
204	BL	BL	BL	BL	BL	BL	BL	BL	BL
205	BL	BL	BL	**Inc.**[(a)]	NA	NA	NA	NA	NA
206	BL	BL	BL	BL	BL	BL	BL	BL	BL
207	BL	BL	BL	BL	NA	NA	NA	NA	NA
208	BL	BL	BL	BL	BL	BL	BL	BL	BL
209	BL	BL	BL	BL	NA	NA	NA	NA	NA
210	BL	BL	BL	BL	BL	BL	BL	BL	BL
211	BL	BL	BL	BL	NA	NA	NA	NA	NA
212	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
213	BL	BL	BL	BL	BL	BL	BL	BL	BL
214	BL	BL	BL	BL	NA	NA	NA	NA	NA
215	BL	BL	BL	BL	NA	NA	NA	NA	NA
216	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
217	BL	BL	BL	BL	NA	NA	NA	NA	NA
218	BL	BL	BL	BL	BL	BL	BL	BL	BL
219	BL	BL	BL	BL	NA	NA	NA	NA	NA
220	BL	**Inc.**[(a)]	BL	BL	NA	NA	NA	NA	NA
221	BL	BL	BL	**Inc.**[(a)]	NA	NA	NA	NA	NA
222	BL	BL	BL	BL	BL	BL	BL	BL	BL
223	BL	BL	BL	BL	BL	BL	BL	BL	BL
224	BL	BL	BL	BL	NA	NA	NA	NA	NA
225	BL	BL	BL	BL	NA	NA	NA	NA	NA
226	BL	**Inc.**[(a)]	BL	BL	NA	NA	NA	NA	NA

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Remark:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2 and 2.3.
- XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	X≤(70-3σ)	(70-3σ)<X<(130+3σ)	X≥(130+3σ)
Pb	X≤(700-3σ)	(700-3σ)<X<(1300+3σ)	X≥(1300+3σ)
Hg	X≤(700-3σ)	(700-3σ)<X<(1300+3σ)	X≥(1300+3σ)
Br	X≤(300-3σ)	X>(300-3σ)	NA
Cr	X≤(700-3σ)	X>(700-3σ)	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	X≤(70-3σ)	(70-3σ)<X<(130+3σ)	X≥(130+3σ)
Pb	X≤(700-3σ)	(700-3σ)<X<(1300+3σ)	X≥(1300+3σ)
Hg	X≤(700-3σ)	(700-3σ)<X<(1300+3σ)	X≥(1300+3σ)
Cr	X≤(700-3σ)	X>(700-3σ)	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	X≤(50-3σ)	(50-3σ)<X<(150+3σ)	X≥(150+3σ)
Pb	X≤(500-3σ)	(500-3σ)<X<(1500+3σ)	X≥(1500+3σ)
Hg	X≤(500-3σ)	(500-3σ)<X<(1500+3σ)	X≥(1500+3σ)
Br	X≤(250-3σ)	X>(250-3σ)	NA
Cr	X≤(500-3σ)	X>(500-3σ)	NA

- Screening limits in mg/kg for regulated phthalates in various matrices

PHTHALATES	BL	INCONCLUSIVE
DEHP	X<600	X≥ 600
BBP	X<600	X≥ 600
DBP	X<600	X≥ 600
DIBP	X<600	X≥ 600

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet–visible spectrophotometer (UV-Vis).
[Reporting Limit: 2.0 mg/kg for Cadmium; 5.0 mg/kg or 0.10 μg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
19	--	--	--	--	<10
40	--	/	Negative	--	--
89	--	--	--	--	<10
95	--	--	--	--	<10
96	--	--	--	--	<10
184	--	/	Negative	--	--
200	--	--	--	--	<10
205	--	/	Negative	--	--
220	--	--	--	--	**23857.1[(c)]**
221	--	/	Negative	--	--
226	--	--	--	--	25.2
Unit	mg/kg	mg/kg	μg/cm²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative[#]	1000	1000

Remark:

- "mg/kg" denotes milligram per kilogram
- "μg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Positive" denotes the absorbance value of sample is > 0.13 μg/cm², the sample is considered to be positive for Hexavalent Chromium.
- "Inconclusive" denotes the absorbance value of sample is ≥ 0.10 μg/cm² and ≤ 0.13 μg/cm², the sample is considered to be Inconclusive for Hexavalent Chromium.
- "Negative" denotes the absorbance value of sample is < 0.10 μg/cm², the sample is considered to be negative for Hexavalent Chromium.
- "#" According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- "(c)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) Copper alloy containing up to 4 % lead by weight".

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		14	17	21	50	53	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		56	71	72	73	74	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		80	105	112	131	133	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		150	161	182	185	190	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]			RoHS Requirement [mg/kg]
		194	212	216	
PBBs	Monobromobiphenyl	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	1000

Remark:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than

TEC_WUX_F_25.05E – Rev. 00 2021-06-24

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

APPENDIX I: Product Model

Product: Meter	Test model: APM521
	
Additional models: APM521-*, APM510-*, APM520-*, APM510-S-*, APM520-S-*, APM300-*, APM300-R-*, "*"means:E, KC, KM, KCE, KME, F, 2M, T, CE, L, 2C, WF, LR, 4G, K, ;APM800/#, APM801/#, APM810/#, APM830/#, "#"means:MD82, MA84, MLOG, MCM, MCE, MCP, MPNET, MTN, MTH, MTP, F	

Remark:
1. The report covers material testing on specified samples.
2. The tested materials covered by the report were declared by the manufacturer to be used on the additional model.

--END OF REPORT--

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi Jiangsu. China
Tel.: +86-510-88203737 Fax: +86-510-88203636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000