

## TEST REPORT

CheckCode:263279  
Report No.:C202308155445E

**Company Name:** Energy Recovery Products (Zhuhai) Co., Ltd  
**Address:** 2nd floor, F building, No.8 Pingdong Road 2, Nanping Technology Industrial Park, Zhuhai, Guangdong, China

**The following sample information was submitted and identified by/on the behalf of the client**

**Name:** LED Driver  
**Type/Model:** PTBXXX-XXXX-XX-X  
**Material:** House + PCBA  
**Description:** Complete  
**Supplier:** ERP  
**Sample State:** Normal

**Date of Receipt:** Aug.18, 2023      **Test Period:** Aug.18, 2023 – Aug.28, 2023

**Test Request:** Selected test(s) as requested by client.

**Test Result:** Please refer to following page(s).

Edited by Cheng Wanfen      Reviewed by Tang Liping      Approved by Zheng Xiaqing



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Issue date:Aug.28,2023

The result(s) shown in this report refer(s) only to the sample(s) tested.This report is considered invalid without approved signature, special seal and the seal on the perforation. Without written approval of GRGTEST, this report can't be reproduced except in full. Any disagreements of the test report should be fed back to us within 15 workdays upon receiving the report.

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## Sample description:

Sample No.	Description
1	Off-white plastic cover with black printing
2	Off-white plastic shell
3	DK-grey glue
4	Yellow adhesive plastic sheet with grey printing
5	Lt-blue glue
6	Red plastic jacket with black printing
7	Black plastic jacket with white printing
8	Blue plastic jacket with white printing
9	White plastic jacket with black printing
10	Purple plastic jacket with black printing
11	Pink plastic jacket with black printing
12	Green "PCB"
13	Yellow plastic jacket
14	Brown body (C127)
15	White body
16	Black body (R22)
17	Black body with white printing (R21)
18	Black body
19	Black body (D97)
20	Dk-brown body
21	Black body (IC23)
22	Brown body (C120)
23	Black body (IC22)
24	Black body (Q1)
25	Black body (Q6)
26	Black body (D3)
27	Black body with white printing (R134)
28	Black body with white printing (R31)
29	Black body (Q5)
30	Black body with white printing (R65)
31	Black body (IC5)
32	Black body (Q56)
33	Brown body (C148)
34	Black body (D99)
35	Black body (D16)
36	Brown body with black printing (C70)

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37	Black body (R13)
38	Black body (ICB)
39	Black body (D1)
40	Lt-brown body (C39)
41	Black body
42	Brown body (C26)
43	Black body
44	Brown body (C130)
45	Grey body (C50)
46	Grey body (C17)
47	Lt-brown body (C4)
48	Black glue
49	Brown body
50	Lt-brown body
51	DK-brown body (C158)
52	Green "PCB"
53	Black body
54	Black body with white printing
55	Grey core
56	Copper-colored enameled wire
57	White body
58	Black body (D14)
59	Dk-grey body
60	Black body (Z16)
61	Red plastic shell
62	Silvery block
63	Green "PCB"
64	Dk-grey core (L1)
65	Yellow adhesive plastic sheet with grey printing
66	Black plastic holder
67	Copper-colored enameled wire
68-1	Dk-green coating (L5)
68-2	Grey core (Base of No.68-1)
69	Yellow plastic jacket
70	Pink plastic jacket
71	Beige glue
72	Grey plastic shell
73	Black glue

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74	Black plastic shell
75	Black plastic part
76	White fiber thread
77	Brown adhesive plastic sheet
78	White adhesive plastic sheet with black printing
79	Grey core
80	Black plastic holder
81	Copper-colored enameled wire
82	White plastic tube
83	Black plastic holder
84	Grey adhesive glue
85	blue plastic shell with white printing
86	Black rubber part
87	Transparent adhesive plastic sheet
88	Beige paper sheet with liquid
89	Blue body (C159)
90	Yellow body (MV1)
91	Orange plastic sheet with black printing
92	White translucent plastic tube
93	Yellow adhesive plastic sheet
94-1	Black coating
94-2	Grey core (Base of No.94-1)
95	Brown body (C46)

## Test result:

## Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			1	2	3	4
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			5	6	7	8
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			9	10	11	12
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			13	14	15	16
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			17	18	19	20
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			21	22	23	24
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			25	26	27	28
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			29	30	31	32
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			33	34	35	36
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			37	38	39	40
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			41	42	43	44
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			45	46	47	48
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			49	50	51	52
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			53	54	55	56
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			57	58	59	60
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			61	62	63	64
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			65	66	67	68-1
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			68-2	69	70	71
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			72	73	74	75
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			76	77	78	79
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			80	81	82	83
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			84	85	86	87
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			88	89	90	91
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)			
			92	93	94-1	94-2
All tested PFAS	---	---	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	MDL(mg/kg)	Result(mg/kg)
			95
All tested PFAS	---	---	N.D.

- Remark:
- 1) The table above only shows detected substances, and substances that below MDL are not reported. Please refer to Annex 1 for the full list of tested PFAS.
  - 2) 1mg/kg = 1ppm = 0.0001%
  - 3) MDL =method detection limit
  - 4) "N.D." = Not Detected (Below Method Detection Limit)

## Annex 1 - Full list of tested PFAS:

No.	Substance name	CAS No.	MDL(mg/kg)
1	Perfluorobutane Acid(PFBA)	375-22-4	0.01
2	Perfluoropentane Acid(PFPeA)	2706-90-3	0.01
3	Perfluorohexane Acid(PFHxA)	307-24-4	0.01
4	Perfluoroheptane Acid(PFHpA)	375-85-9	0.01
5	Perfluorooctanoic Acid(PFOA)	335-67-1	0.01
6	Perfluorononane Acid(PFNA)	375-95-1	0.01
7	Perfluorodecane Acid(PFDA)	335-76-2	0.01
8	Perfluoroundecanoic Acid(PFUdA)	2058-94-8	0.01

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No.	Substance name	CAS No.	MDL(mg/kg)
9	Perfluorododecanoic Acid(PFDoA)	307-55-1	0.01
10	Perfluorotridecanoic acid(PFTrA)	72629-94-8	0.01
11	Perfluorotetradecanoicacid(PFTeDA)	376-06-7	0.01
12	Perfluoropentadecanoic acid(PFPeDA)	141074-63-7	0.01
13	Perfluorohexadecanoic Acid(PFHxDA)	67905-19-5	0.01
14	Perfluoroheptadecanoic acid(PFHpDA)	57475-95-3	0.01
15	Perfluorooctadecanoic Acid(PFOdA)	16517-11-6	0.01
16	Perfluorononadecanoic acid(PFNDA)	133921-38-7	0.01
17	Eicosanoic acid, nonatriacontafluoro- (PFECA)	68310-12-3	0.01
18	Perfluoroheneicosanoic acid(C21PFCA)	-----	0.1
19	Perfluorobutane Sulfonate(PFBS)	375-73-5	0.01
20	perfluoropentane-1-sulphonic acid(PFPeS)	2706-91-4	0.1
21	Perfluorohexane Sulfonate(PFHxS)	355-46-4	0.01
22	Perfluoroheptane Sulfonate(PFHpS)	375-92-8	0.01
23	Perfluorooctane Sulfonates(PFOS)	1763-23-1	0.01
24	Perfluorononane sulfonic Acid(PFNS)	68259-12-1	0.01
25	Perfluorodecane Sulfonate(PFDS)	335-77-3 / 126105-34-8	0.01
26	Perfluoroundecane sulfonic acid(PFUnS)	749786-16-1	0.1
27	Perfluorododecane sulfonic acid(PFDoDS)	79780-39-5	0.01
28	Perfluorotridecane sulfonic acid(PFTrDS)	791563-89-8	0.1
29	7H-Dodecanefluoroheptane Acid(HPFHpA)	1546-95-8	0.01
30	2H,2H,3H,3H-Perfluorononanoic acid (4HPFNA)	27854-30-4	0.1
31	2H,2H-Perfluorodecane Acid (2HPFDA)	27854-31-5	0.01

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No.	Substance name	CAS No.	MDL(mg/kg)
32	2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA)	34598-33-9	0.01
33	2,3,3,3-Tetrafluoro-2-(perfluoropropoxy)propanoic Acid(HFPO-DA)	13252-13-6	0.01
34	Bis[2-(perfluorooctyl)ethyl]phosphate (8:2diPAP)	678-41-1	0.01
35	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01
36	Ethyl perfluorooctanoate(Et-PFOA)	3108-24-5	0.1
37	Methyl perfluorooctanoate(Me-PFOA)	376-27-2	0.1
38	Perfluoro-1-iodooctane(PFOI)	507-63-1	0.1
39	1H,1H,2H,2H-Perfluoro-1-iododecane (4HPFDI)	2043-53-0	0.1
40	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.1
41	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.1
42	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.1
43	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.1
44	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.1
45	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.1
46	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.1
47	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.1
48	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.1
49	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
50	1H,1H,2H,2H-Perfluorodecane sulphonic acid (8:2 FTS)	39108-34-4	0.1
51	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSi)	101947-16-4	0.1
52	2H,2H-Perfluorodecanoate Tetrabutylphosphonium (H <sub>2</sub> PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7	0.01
53	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	0.01
54	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH <sub>4</sub> )	62037-80-3	0.01
55	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	0.01
56	Perfluorooctylethene (PFOE)	21652-58-4	0.1
57	ammonium tricosafuorododecanoate (PFDoA-NH <sub>4</sub> )	3793-74-6	0.01
58	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.1
59	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.1
60	(2-(perfluorodecyl) ethyl methacrylate) (10:2FTMA)	2144-54-9	0.1
61	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N -methylbutane-1-sulphonamide (Me-FBSE)	34454-97-2	0.01
62	Ammonium perfluorobutanoate (PFBA-NH <sub>4</sub> )	10495-86-0	0.1
63	Sodium perfluoroundecane sulfonic (8:2diPAP-Na)	114519-85-6	0.1
64	1H,1H,2H,2H-Perfluorooctyl iodide (6:2FTI)	2043-57-4	0.1

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65	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	0.1
66	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.1
67	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4: 2 FTS)	757124-72-4	0.01
68	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.1
69	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.1
70	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.1
71	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.1
72	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.1
73	3-Perfluoropropyl propanoic acid(3:3 FTCA)	356-02-5	0.1
74	3-Perfluoroheptyl propanoic acid(7:3 FTCA)	812-70-4	0.1
75	Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	0.1
76	Potassium heptafluorobutanoate(PFBA-K)	2966-54-3	0.1
77	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	0.1
78	Sodium perfluoropentanoate(PFPA-Na)	2706-89-0	0.1
79	Perfluoropentanoic acid, Sodium Salt	2483735-37-9	0.1
80	Potassium perfluoropentanoate(PFPA-K)	336-23-2	0.1
81	Ammonium perfluoropentanoate (PFPA-NH <sub>4</sub> )	68259-11-0	0.1
82	Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	0.1
83	Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	0.1
84	Ammonium undecafluorooctanoate (PFHxA-NH <sub>4</sub> )	21615-47-4	0.01

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85	Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	0.1
86	Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	0.1
87	Ammonium perfluoroheptanoate (PFHpA-NH <sub>4</sub> )	6130-43-4	0.1
88	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01
89	Sodium perfluorooctanoate(PFOA-Na)	335-95-5	0.01
90	Potassium perfluorooctanoate(PFOA-K)	2395-00-8	0.01
91	Silver perfluorooctanoate(PFOA-Ag)	335-93-3	0.01
92	Perfluorooctanoyl fluoride(PFOA-F)	335-66-0	0.01
93	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)	68141-02-6	0.1
94	Perfluorononan-1-oic acid, ammonium salt (APFN)	4149-60-4	0.01
95	Perfluorononanoate Na-Salt(PFNA-Na)	21049-39-8	0.01
96	Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluorometh yl)-	1812247-20-3	0.1
97	Perfluorodecanoate Na-salt(PFDA-Na)	3830-45-3	0.01
98	Perfluorodecanoate ammonium salt (APFDA)	3108-42-7	0.01
99	Potassium perfluorononanoate (PFNA-K)	21049-38-7	0.1
100	Ammonium perfluoroundecanoate (PFUnA-NH <sub>4</sub> )	4234-23-5	0.1
101	Perfluoroundecanoic acid sodium salt (PFUnA-K)	60871-96-7	0.1
102	Potassium 2H,2H,3H,3H-Perfluoroundecanoate (4H-PFDA-K)	83310-58-1	0.1

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## TEST REPORT

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Report No.:C202308155445E

No.	Substance name	CAS No.	MDL(mg/kg)
103	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.1
104	Perfluorohexyl iodide (PFHxI)	355-43-1	0.1
105	Perfluorohexyl ethylene (PFHxE)	25291-17-2	0.1
106	sodium hydrogen (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phosphonate	1189052-95-6	0.1
107	(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)phosphonic acid monoethyl ester	1189052-97-8	0.1
108	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl methacrylate	1228350-17-1	0.1
109	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-2-hydroxynonyl acrylate	127377-12-2	0.1
110	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4bis(trifluoromethyl)heptyl]silane	130676-81-2	0.1
111	1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4(trifluoromethyl)pentane	132182-92-4	0.1
112	(perfluorohexyl)hexadecane	133310-71-1	0.1
113	1-(Perfluorohexyl)octane	133331-77-8	0.1
114	Trimethyl(tridecafluorohexyl)silane	135841-49-5	0.1
115	4,4,5,5,6,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl acrylate	16083-76-4	0.1
116	4,4,5,5,6,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate	16083-79-7	0.1
117	bromotris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane	175354-31-1	0.1
118	tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane	175354-32-2	0.1
119	(prop-2-en-1-yl)tris(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)stannane	192212-66-1	0.1
120	Perfluorohexanoic Anhydride	308-13-4	0.1
121	1H,1H-Tridecafluoro-1-iodoheptane	212563-43-4	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
122	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7	0.1
123	1H.1H.2H.2H-Perfluorooctanesulphonic acid (4HPFOS/6:2PFOS)	27619-97-2	0.01
124	Perfluorohexane sulfonamide (PFH <sub>x</sub> SA)	41997-13-1	0.1
125	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.01
126	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	0.01
127	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	0.01
128	N-methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.01
129	N-ethylperfluoro-1-octanesulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.01
130	2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	0.01
131	2-(N-ethylperfluoro-1-octanesulfonamido) - ethan ol(EtFOSE)	1691-99-2	0.01
132	N-(Perfluoro-1-octanesulfonyl) Glycine (FOSAA)	2806-24-8	0.01
133	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.1
134	N-Methylperfluoro-1-hexanesulfonamide (N-MeFH <sub>x</sub> SA)	68259-15-4	0.1
135	N-[3-(dimethylamino)propyl]tridecafluorohexanes ulphonamide (N-AP-FH <sub>x</sub> SA)	50598-28-2	0.1
136	2-[Methyl[(tridecafluorohexyl)sulphonyl]amino]eth yl acrylate (N-MeFHSEA)	67584-57-0	0.1
137	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF <sub>3</sub> ONS)	756426-58-1	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
138	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF <sub>3</sub> OUdS)	763051-92-9	0.1
139	Sodium perfluoro-1-undecanesulfonate (PFUnS-Na)	-----	0.1
140	Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	0.1
141	Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	0.1
142	Perfluorobutansulfonyl fluoride (PFBS-F)	375-72-4	0.01
143	N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	25628-08-4	0.01
144	Perfluorooctanesulfonic acid HYDRATE (PFBS-H <sub>2</sub> O)	59933-66-3	0.01
145	Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	17202-41-4	0.1
146	Perfluorobutylsulfonamide(PBSA)	30334-69-1	0.1
147	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBA-NH <sub>4</sub> )	68259-10-9	0.1
148	Nonafluoro-1-butanesulfonyl chloride (PFBA-Cl)	2991-84-6	0.1
149	Perfluorobutanesulfonate K-salt(PFBS-K)	29420-49-3	0.01
150	Magnesium perfluorobutanesulfonate (PFBA-Mg)	507453-86-3	0.1
151	Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	0.1
152	Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2	0.1
153	Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	0.01
154	Perfluorohexanesulfonate NA-salt (PFHxS-Na)	82382-12-5	0.01

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No.	Substance name	CAS No.	MDL(mg/kg)
155	Ammonium perfluorohexane-1-sulphonate (PFHxS-NH <sub>4</sub> )	68259-08-5	0.01
156	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)(PFHxS-Li)	55120-77-9	0.01
157	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	0.01
158	Perfluorohexanesulfonate sulfonyl fluoride (PFHxA-F)	423-50-7	0.1
159	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1)(PFHxS-Ce)	92011-17-1	0.1
160	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0	0.1
161	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0	0.1
162	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl) (PFHxS-Ga)	341035-71-0	0.1
163	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0	0.1
164	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	72033-41-1	0.1
165	Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonic acid (1:1)(PFHxS-N(CH <sub>3</sub> ) <sub>4</sub> )	189274-31-5	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
166	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1) (PFHxS-(CH <sub>3</sub> ) <sub>3</sub> CNH <sub>2</sub> )	202189-84-2	0.1
167	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonate (1:1)	213740-81-9	0.1
168	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0	0.1
169	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonic acid (1:1) (9Cl)	866621-50-3	0.1
170	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonate (1:1)	910606-39-2	0.1
171	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]dip henyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu +C129lfonate (1:1)	911027-68-4	0.1
172	Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphen yl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5	0.1
173	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesu lfonic acid (1:2)	421555-73-9	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
174	Sodium Perfluoroheptanesulfonate (PFHpS-Na)	21934-50-9	0.1
175	Perfluoroheptanesulfonate K-salt (PFHpS-K)	60270-55-5	0.01
176	Perfluoroheptanesulfonate Na-salt	68555-66-8	0.01
177	Perfluorooctanesulfonate Na-salt (PFOS-Na)	4021-47-0	0.01
178	Perfluorooctanesulfonate K-salt (PFOS-K)	2795-39-3	0.01
179	Perfluorooctanesulfonate ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9	0.01
180	Magnesium bis(perfluorooctane-1-sulfonate) (PFOS-Mg)	91036-71-4	0.01
181	N-decyl-N,N-dimethyldecan-1-amium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8	0.01
182	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8	0.01
183	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	0.01
184	Perfluorooctane Sulfonyl fluoride (POSF)	307-35-7	0.01
185	Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3	0.01
186	Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	0.01
187	Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7	0.01
188	Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8	0.01
189	Perfluoroaliphatic Dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> )	67906-42-7	0.01

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No.	Substance name	CAS No.	MDL(mg/kg)
190	Sodium perfluoro-1-dodecanesulfonate (PFD <sub>o</sub> DS-Na)	1260224-54-1	0.01
191	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	-----	0.1
192	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	1000597-52-3	0.1
193	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9	0.1
194	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)	108427-55-0	0.1
195	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)	1187817-57-7	0.1
196	Methanaminium, N-[4-[[4-(dimethylamino)phenyl] [4-(ethylamino)-1-naphthalenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	1310480-24-0	0.1
197	Methanaminium, N-[4-[[4-(dimethylamino) phenyl][4-(ethylamino)-1-naphthalenyl]methylene] -2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	1310480-27-3	0.1
198	Methanaminium, N-[4-[[4-(diethylamino)phenyl] [4-(phenylamino)-1-naphthalenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	1310480-28-4	0.1
199	Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonic acid ion(1-) (1:1)	1329995-45-0	0.1
200	Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonic acid ion(1-) (1:1)	1329995-69-8	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
201	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	144116-10-9	0.1
202	Quinolinium, 1-(carboxymethyl)-4- [2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8 b- hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	1462414-59-0	0.1
203	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	153443-35-7	0.1
204	Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7	0.1
205	Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3	0.1
206	Morpholinium perfluorobutanesulfonate	503155-89-3	0.1
207	1,5-Trisiloxanediol, 3-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadeca fluorodecyl)-1,1,3,5,5-pentamethyl- (9Cl)	165320-75-2	0.1
208	2-Propenoic acid, 2-methyl-, methyl ester, telomere with 1-dodecanethiol, 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10 -heptadecafluorodecyl 2-propenoate and 2-Propenoic acid	321318-71-2	0.1
209	Cyclotetrasiloxane, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptade cafluoroundecyl)-2,4,6,8-tetramethyl-, Si-[3-(oxiranylmethoxy)propyl] derivs	206886-57-9	0.1
210	Poly[[1,3-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-1,3:1,3- disiloxanediylidene]-1,3-bis(oxy)]	161045-59-6	0.1
211	Perfluorooctylethyltrimethoxysilane	83048-65-1	0.1
212	Perfluorooctylethyltrichlorosilane	78560-44-8	0.1

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No.	Substance name	CAS No.	MDL(mg/kg)
213	1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	111393-39-6	0.1
214	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium,19-[4-(1,1-dimethylethyl)phenyl]- 6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	928049-42-7	0.1
215	Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-noctyl)silane	102488-47-1	0.1
216	lithium 2-(bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hydroxynonyl)amino)ethane-1-sulfonate	1262880-17-0	0.1
217	ammonium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonate	182176-52-9	0.1
218	1H-Tridecafluoro-3,3-dimethylhex-1-yne	261503-44-0	0.1
219	Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.1
220	Methyl Perfluoroamyl Ketone	2708-07-8	0.1
221	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonyl chloride	27619-89-2	0.1
222	Perfluorooctane sulfonate anion	45298-90-6	0.1
223	Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	341548-85-4	0.1
224	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonic	421555-74-0	0.1
225	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	425670-70-8	0.1
226	Perfluorohexane sulphonyl chloride	55591-23-6	0.1

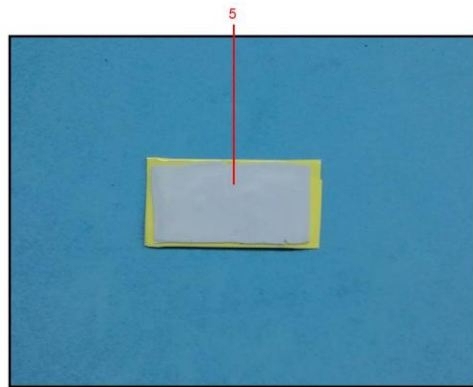
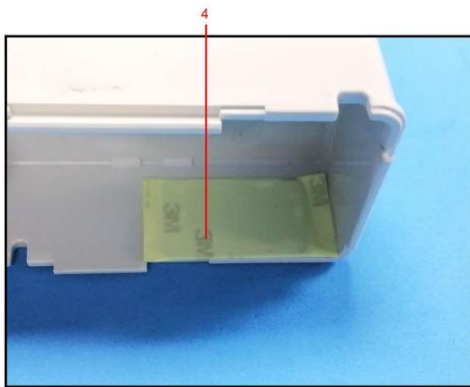
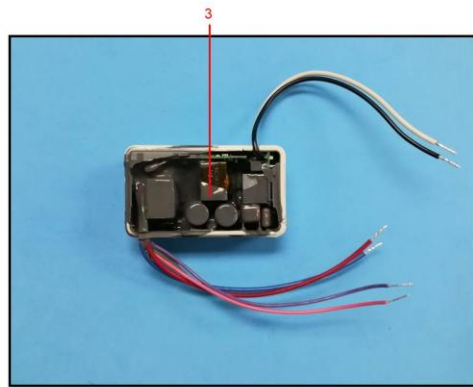
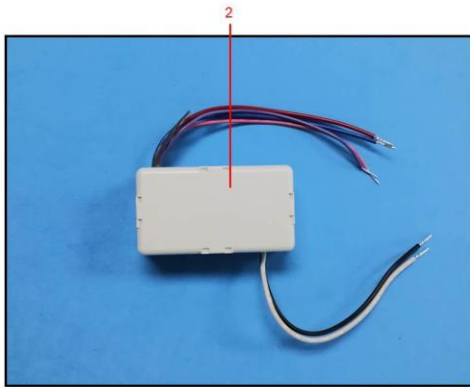
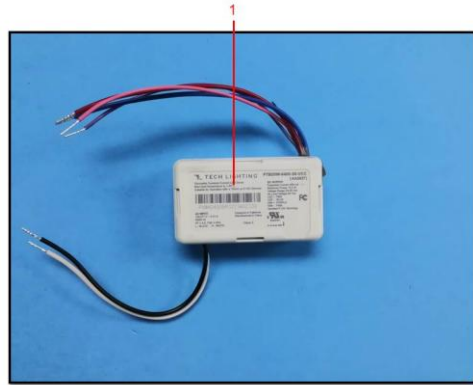
## GRG METROLOGY &amp; TEST GROUP CO., LTD.

Add: No.150, No. 8, Qishan Road, Shiqi Town, Panyu District, Guangzhou, P.R.China  
Laboratory Add: No. 31, Nanxiang 2nd Road, Science City, Huangpu District, Guangzhou, P.R.China  
Tel: 4006020999 Fax: +86-020-38698685 Website: <http://www.grgtest.com>

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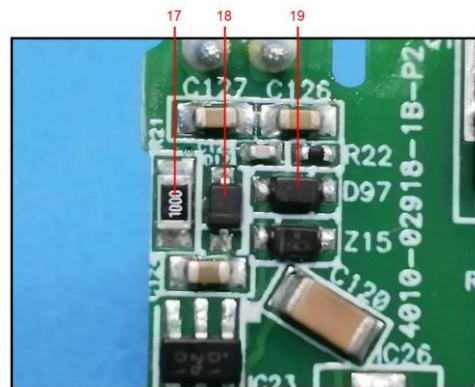
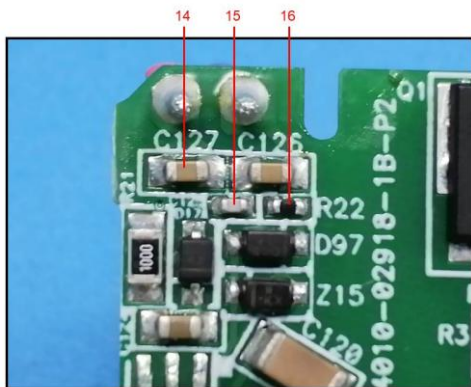
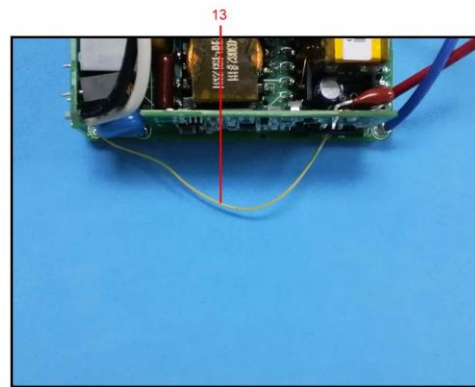
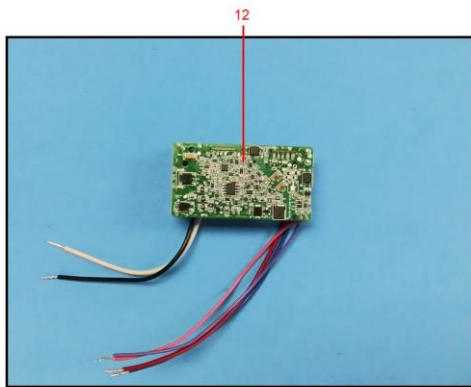
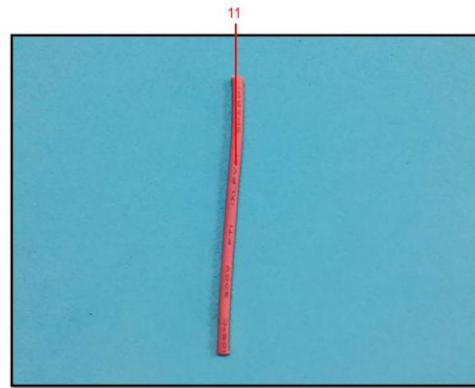
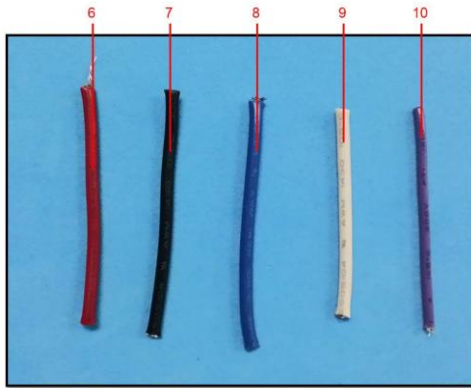
## Photo of Sample





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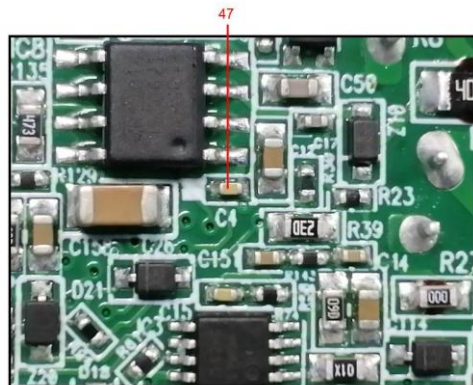
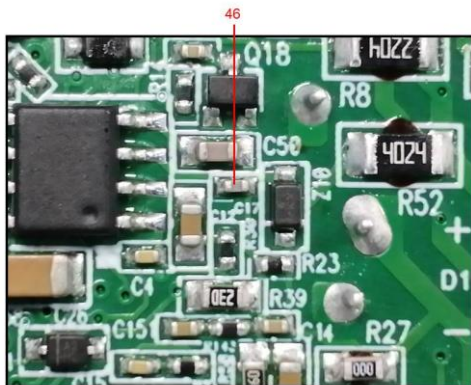
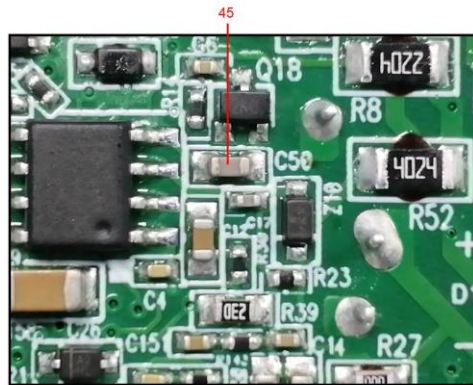
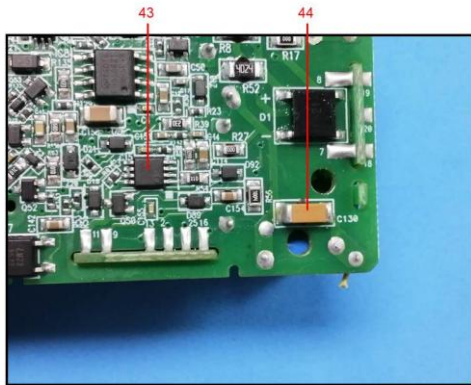
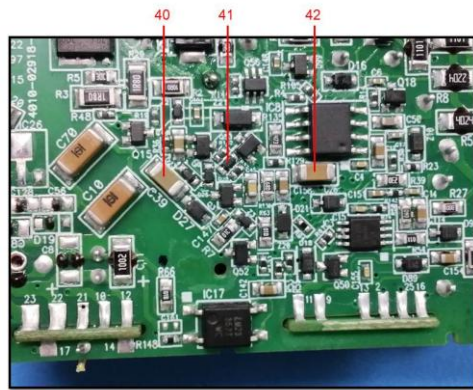
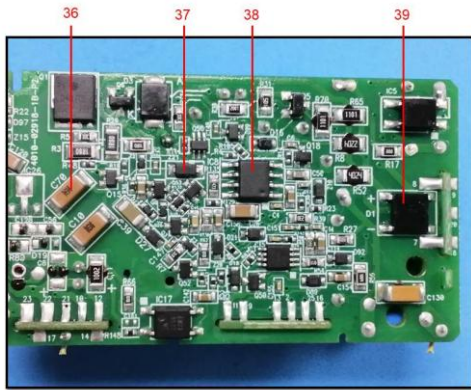






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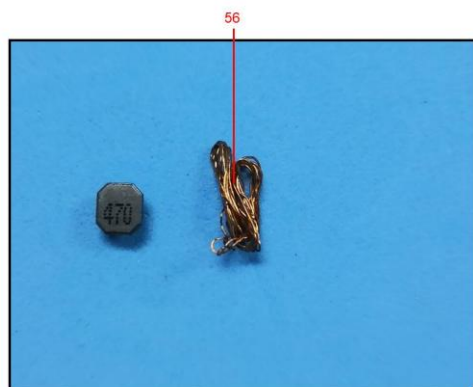
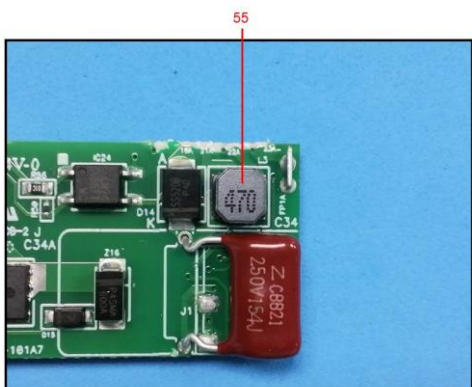
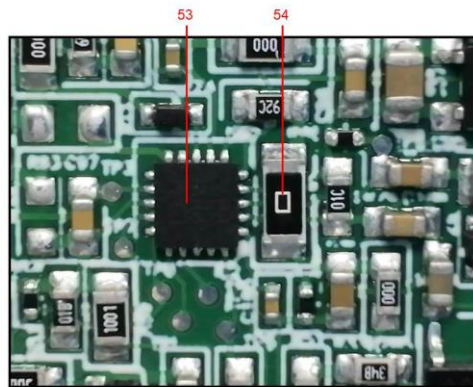
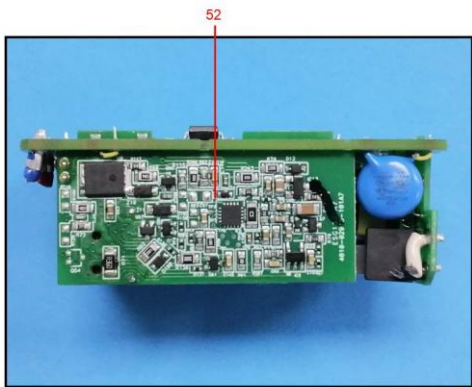
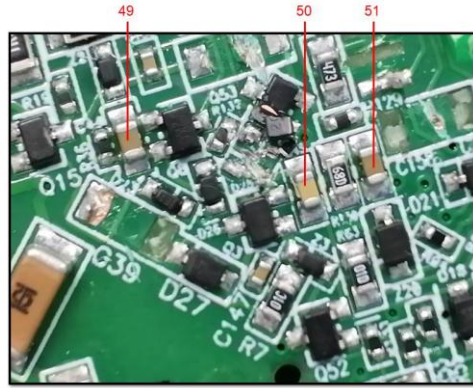
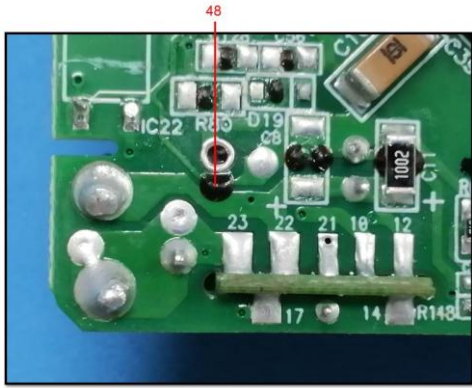
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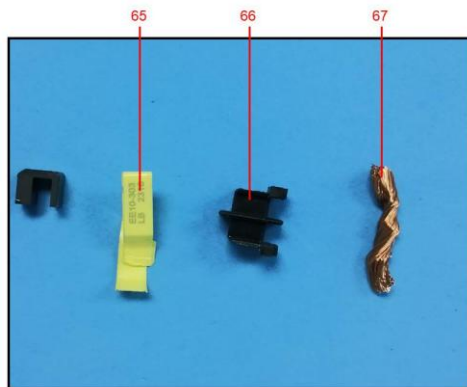
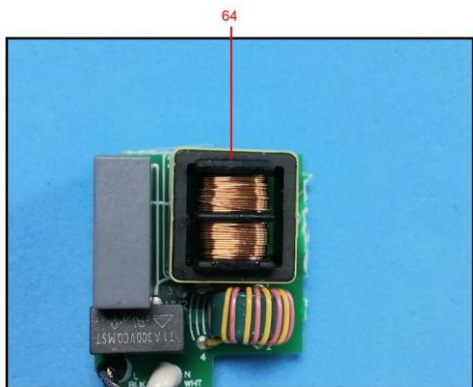
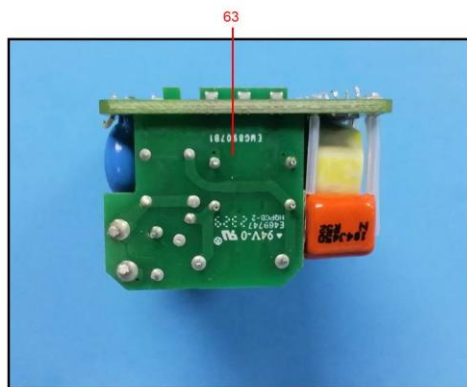
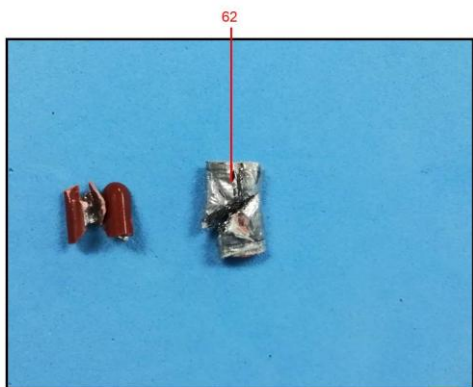
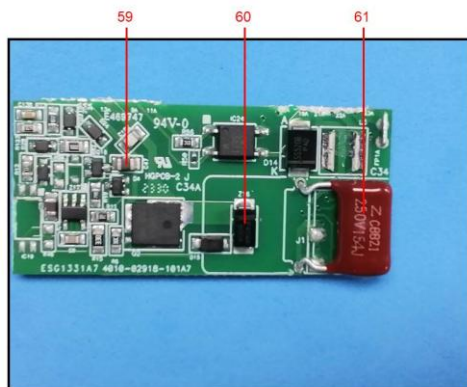
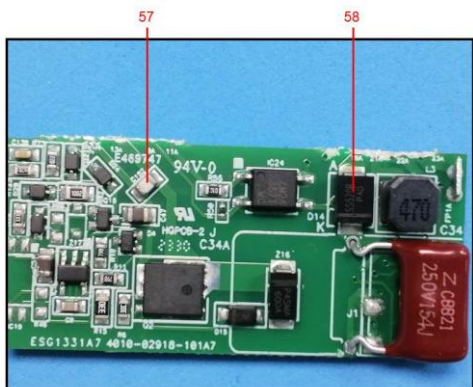
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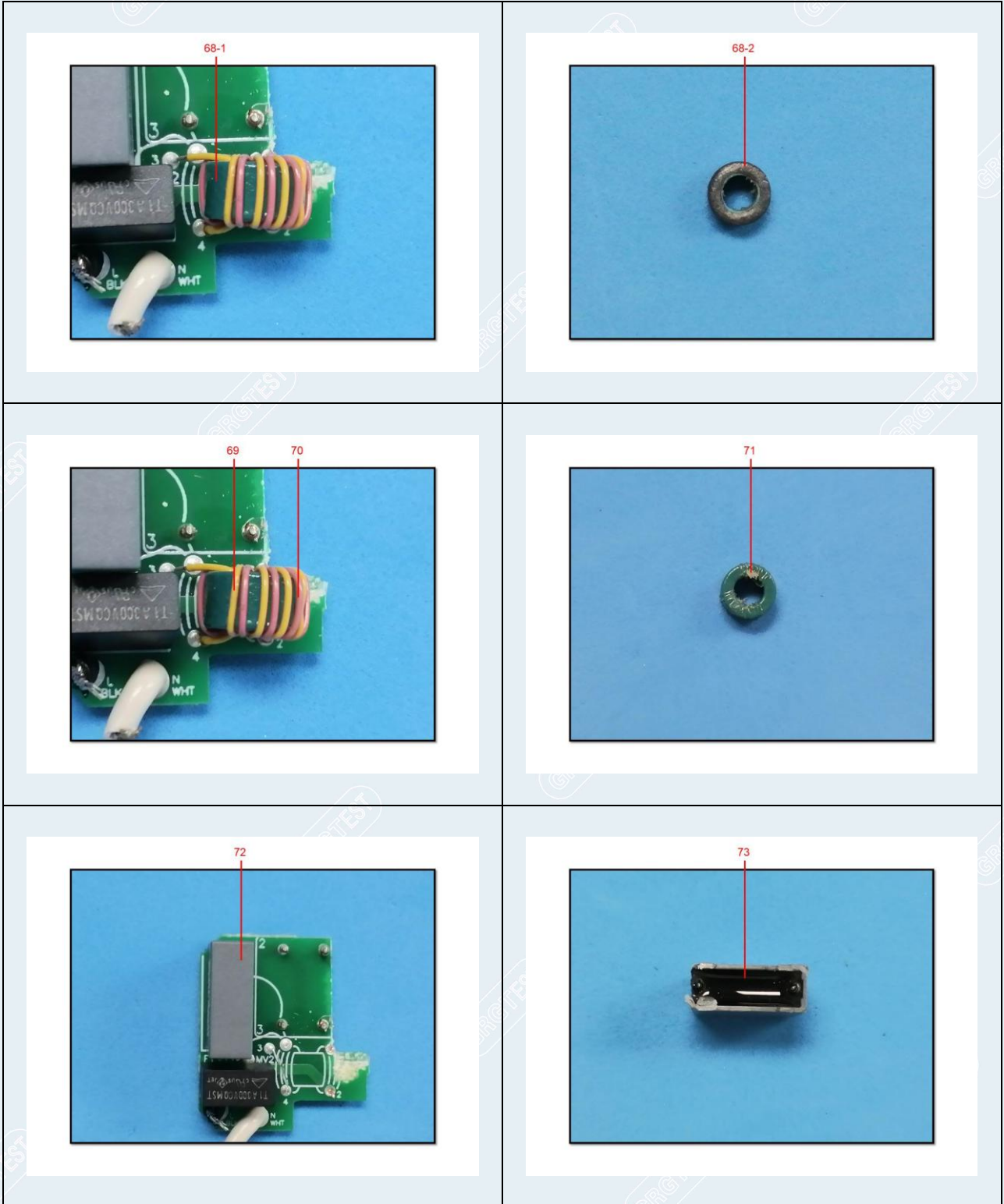
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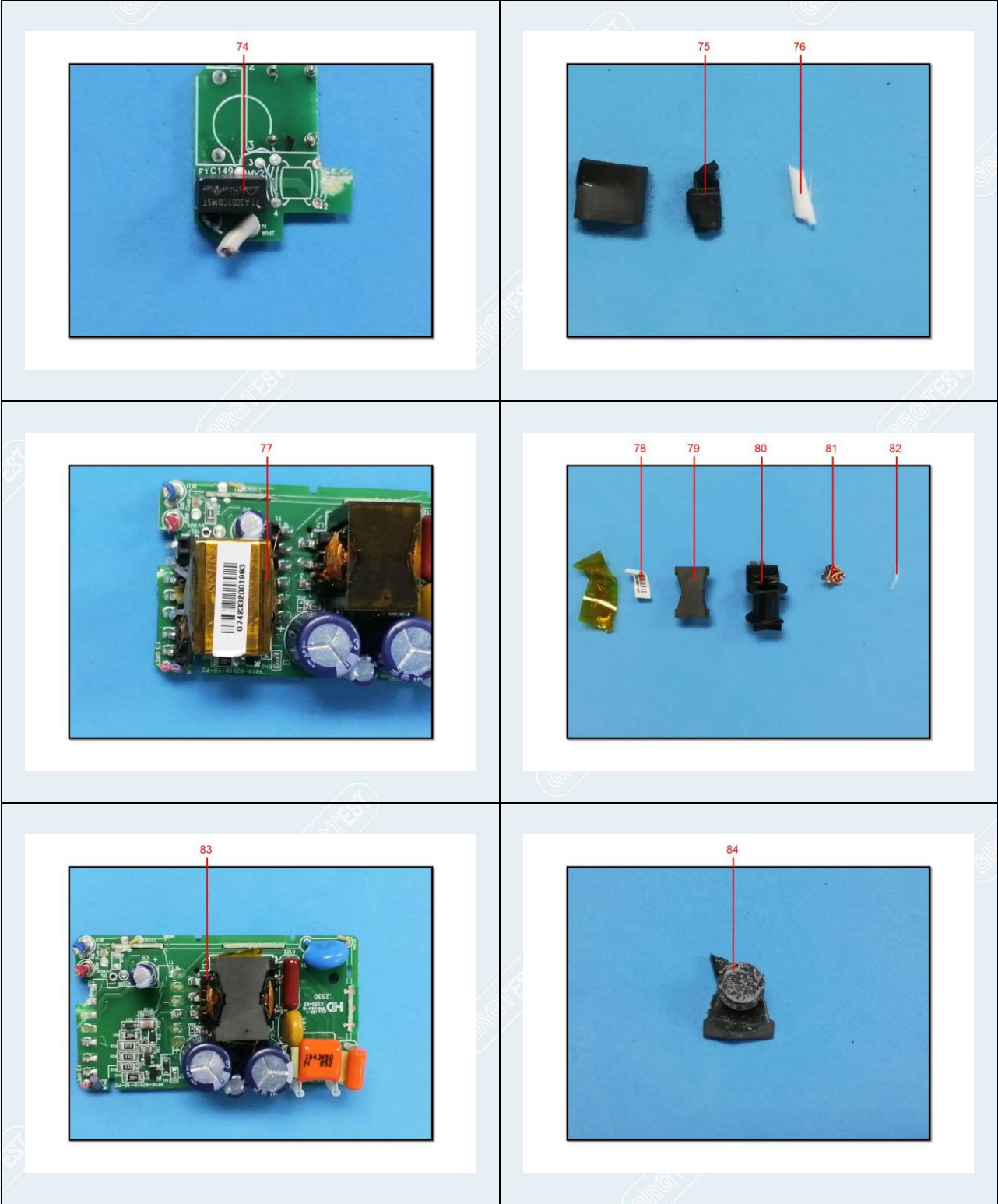
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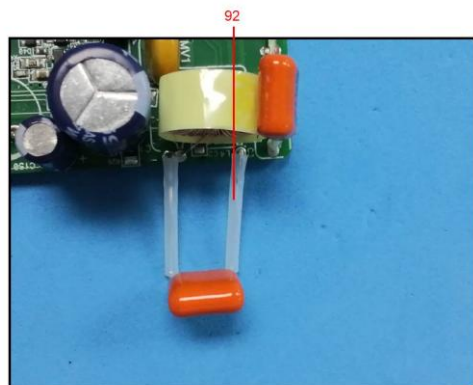
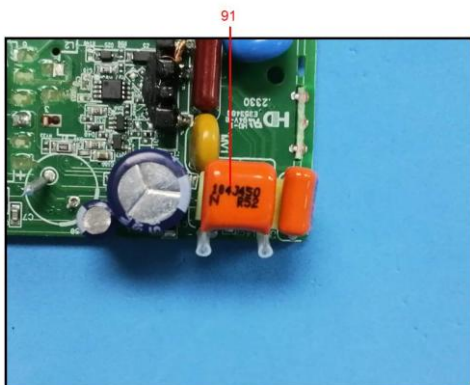
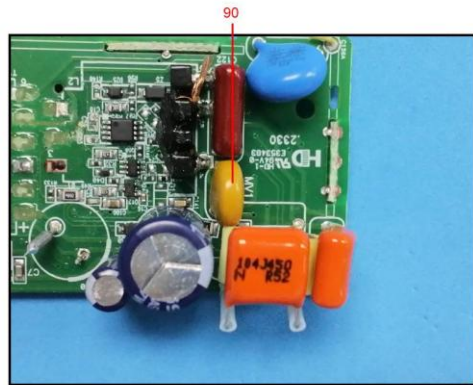
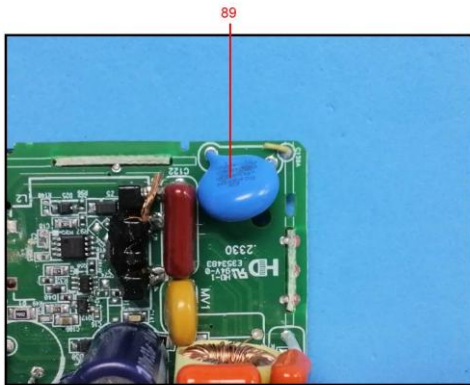
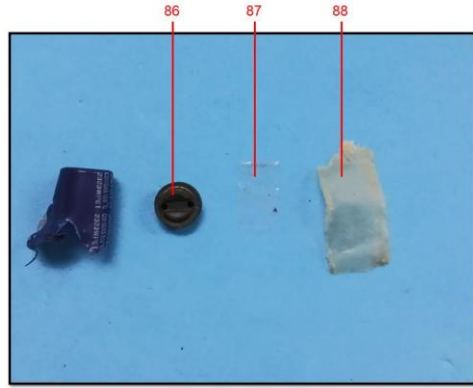
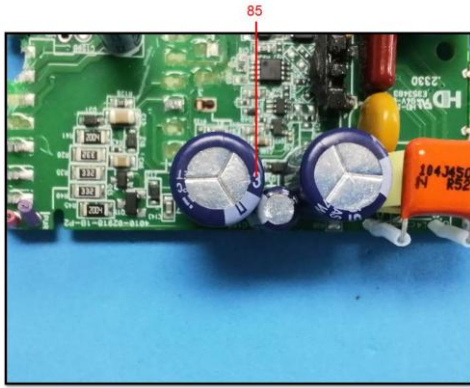
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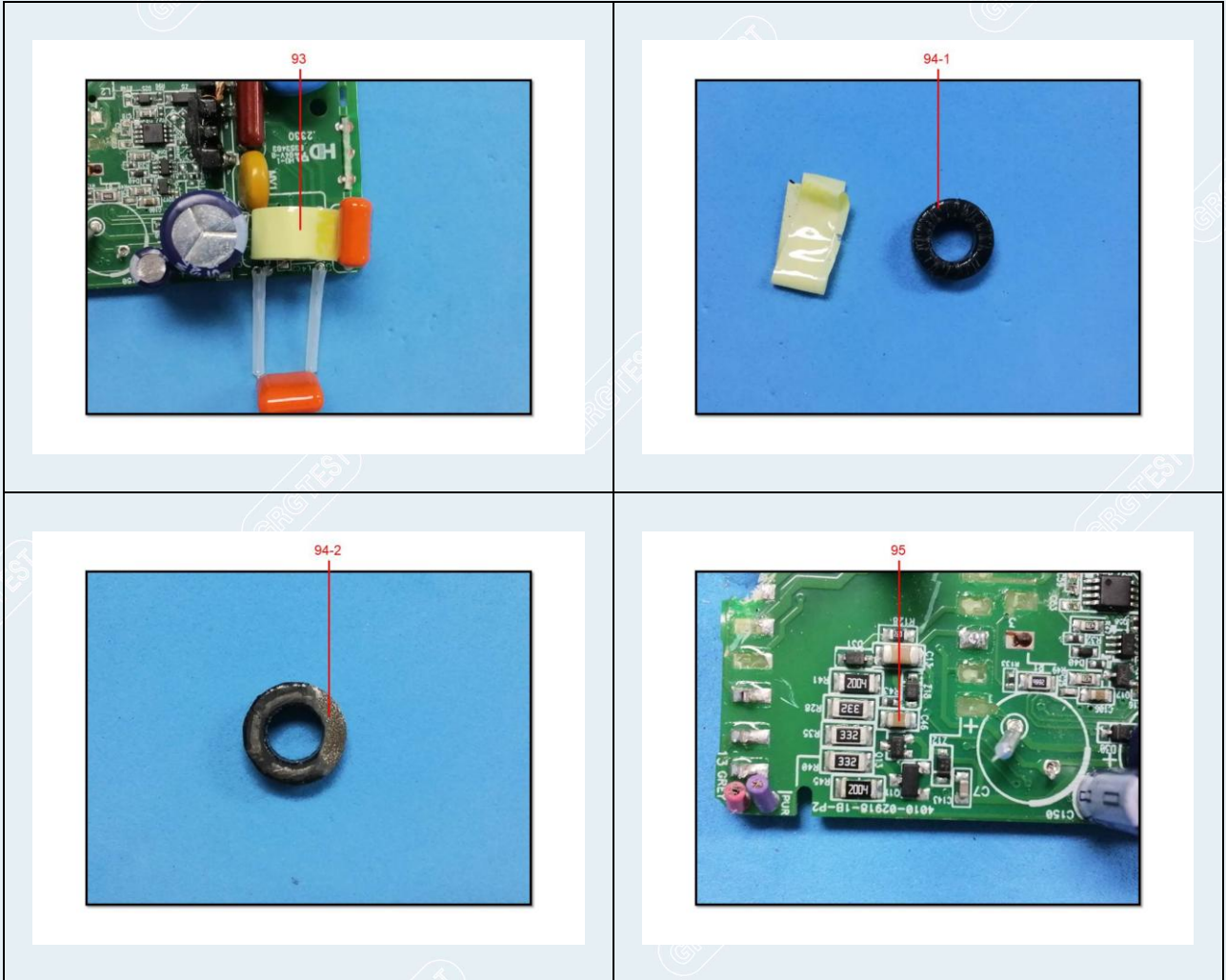
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