



TEST REPORT

Report No..... : WTH23H09207802R1C
 Applicant..... : Meizhou Chaojie Electronics Co., Ltd
 Address..... : Plant 513, xinkengbian, tangkeng Town, Fengshun County,
 Meizhou City
 Sample Name..... : Single sided PCB
 Test Requested..... : Determine the Perfluoroalkyl and polyfluoroalkyl substances
 (PFAS) content in the sample.
 Date of Receipt sample..... : 2023-9-21
 Testing period..... : 2023-9-21 ~ 2023-9-27
 Date of Issue..... : 2023-9-27
 Test Result..... : Refer to next page (s)

Prepared By:

Shenzhen Hongcai Testing Technology Co., Ltd.

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Signed for and on behalf of
 Shenzhen Hongcai Testing Technology Co., Ltd.

Michael Huang

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 http://www.hct-test.com

Report No.: WTH23H09207802R1C

Test Result(s):

Test Method/Equipment: CEN/TS 15968:2010(E) & HCT/SZ-SOP-YJ-PI035; LC-MS/MS, GC-MS

Test Item(s)	Unit	MDL	Result(s)
			(1+2+3+4+5+6)#
294 PFAS	mg/kg	0.025	ND

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

ND=Not Detected

#=As specified by client, the samples were equal mass proportional mixed to test, and the test results are calculated based on the minimum sample quality. The result(s) shown on this report may be different from the content of any homogeneous material.

Sample Description:

No.	HCT Sample ID	Test Part Description	
1	WTH23H09207802C~03C.1	1	Light yellow copper-covered laminate board with green, black, red coating (PCB board)
2	WTH23H09207802C~03C.2	2	Brown copper-covered laminate board with green, white coating (PCB board)
3	WTH23H09207802C~03C.3	3	Cream-white copper-covered laminate board with green, white, black, red coating (PCB board)
4	WTH23H09207802C~03C.4	4	Beige copper-covered laminate board with green, black, red coating (PCB board)
5	WTH23H09207802C~03C.5	5	Light brown copper-covered laminate board with green, black, red coating (PCB board)
6	WTH23H09207802C~03C.6	6	Cream-white copper-covered laminate board with green, white, black, red coating (PCB board)



Perfluoroalkyl and polyfluoroalkyl substances (PFAS) contain:

No.	Substance Name	CAS No.
1	Perfluorobutyric acid (PFBA)	375-22-4
2	Perfluoropentane Acid (PFPA)	2706-90-3
3	Perfluorohexane acid (PFHxA)	307-24-4
4	7H-Dodecafluoroheptane Acid(HPFHpA)	1546-95-8
5	Perfluorobutane Sulfonate (PFBS)	375-73-5
6	Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3
7	Perfluoroheptane Acid (PFHpA)	375-85-9
8	1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 6:2)	27619-97-2
9	Perfluorooctanoic acid (PFOA)	335-67-1
10	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
11	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
12	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
13	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
14	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
15	Tetrabutyl phosphonium 2H,2H-Perfluorodecanoate	882489-14-7
16	Perfluorohexane Sulfonate (PFHxS)	355-46-4
17	Perfluorohexanesulfonate Na-salt(PFHxS-Na)	82382-12-5
18	Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
19	Perfluorononane Acid (PFNA)	375-95-1
20	Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
21	Perfluorononanoate ammonium salt (APFN)	4149-60-4
22	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6
23	Perfluoroheptane Sulfonate (PFHpS)	375-92-8
24	Perfluoroheptanesulfonate Na-salt(PFHpS-Na)	68555-66-8
25	Perfluorodecane Acid (PFDA)	335-76-2
26	Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3
27	Perfluorodecanoate ammonium salt (APFDA)	3108-42-7
28	2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA)	34598-33-9
29	Perfluorooctane sulfonates (PFOS)	1763-23-1
30	Perfluorooctane Sulfonamide (PFOSA)	754-91-6
31	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8
32	N-ethylperfluoro-1-octanesulfonamide(EtFOSA)	4151-50-2
33	2-(N-methylperfluoro-1-octanesulfonamido) - ethanol (MeFOSE)	24448-09-7
34	2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol (EtFOSE)	1691-99-2
35	Perfluorooctane Sulfonyl fluoride (POSF)	307-35-7
36	Potassium Perfluorooctanesulfonate(PFOS-K)	2795-39-3
37	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9



No.	Substance Name	CAS No.
38	heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
39	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
40	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
41	Perfluorooctanesulfonic acid, tetraethylammonium salt(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
42	Perfluoroundecanoic Acid (PFUdA)	2058-94-8
43	Perfluorododecanoic Acid (PFDoA)	307-55-1
44	Perfluorodecane Sulfonate (PFDS)	335-77-3
45	Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
46	Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
47	Perfluoroaliphatic Dean-sulfonate salt of NH ₄ (PFDS-NH ₄)	67906-42-7
48	Perfluorotridecanoic Acid (PFTrA)	72629-94-8
49	Perfluorotetradecanoic Acid (PFTeA)	376-06-7
50	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4
51	Methyl perfluorooctanoate (Me-PFOA)	376-27-2
52	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5
53	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
54	1H,1H,2H,2H-Perfluorodecyl acrylate(8:2 FTA)	27905-45-9
55	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9
56	Perfluoro-1-iodooctane (PFOI)	507-63-1
57	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
58	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
59	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
60	Perfluoro dodecyl acrylate(10:2 FTA)	17741-60-5
61	1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	865-86-1
62	1H,1H,2H,2H-Perfluorodecyltriethoxysilane(PFSI)	101947-16-4
63	1-Iodine-1H,1H,2H,2H-perfluorodecane (8:2 FIT)	2043-53-0
64	Bis (2-(perfluoroethyl)) phosphoric acid (8:2diPAP)	678-41-1
65	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid, ammonium salts	62037-80-3
66	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5
67	Ammonium Undecafluorohexanoate (PFHxA-NH ₄)	21615-47-4
68	2H,2H-perfluorodecanoic acid	27854-31-5
69	Nonafluorobutane sulfonic acid hydrate	59933-66-3
70	Potassium perfluoroheptane sulfonate (PFHpS-K)	60270-55-5
71	2-Methyl-2-acrylic acid-3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl ester (6:2 FTMAC)	2144-53-8
72	N-(Heptadecafluorooctylsulfonyl)-N-methylglycine (N-MeFOSAA)	2355-31-9
73	N-ethyl-N-((heptadecafluorooctyl)sulfonyl)glycine (N-EtFOSAA)	2991-50-6
74	Perfluorooctane Sulfonate (PFOS-Na)	4021-47-0
75	Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-	3658-63-7



No.	Substance Name	CAS No.
	(trifluoromethyl)-, ammonium salt	
76	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	15811-52-6
77	N, N, N, - triethylethylamine 1,1,2,2,3,3,4,4-monofluorobutane-1-sulfonate	25628-08-4
78	Perfluorobutylsulfonyl fluoride	375-72-4
79	Ammonium perfluorohexanesulfonate (PFHxS-NH ₄)	68259-08-5
80	Lithium perfluorohexanesulfonate	55120-77-9
81	1-Hexaalkane sulfonic acid, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6 - trifluoro -, zinc salt (PFHxS-Zn)	70136-72-0
82	Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-	68025-62-7
83	Magnesium bis (perfluorooctane-1-sulfonic acid)	91036-71-4
84	Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-	18024-09-4
85	Ammonium perfluorodecanoate	3793-74-6
86	1,1,2,2,3,3,4,4-tetrafluoro-N - (2-hydroxyethyl) - N-methyl-1-butylsulfonamide	34454-97-2
87	Perfluorooctanoic acid (PFODA)	16517-11-6
88	N-(perfluoro-1-octylsulfonyl) glycine	2806-24-8
89	Sodium perfluorinated nonane sulfonate	98789-57-2
90	1H, 1H, 2H, 2H perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4
91	Pentane acid, non fluorocarbon - (PFPeDA)	141074-63-7
92	1H, 1H, 2H, 2H methylperfluoroacrylate dodecyl ester (10:2 FTMA)	2144-54-9
93	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	16486-96-7
94	Sodium perfluorooctanesulfonate	2483735-37-9
95	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, sodium salt (1:1)	630402-22-1
96	Potassium perfluoro caproate	3109-94-2
97	Sodium perfluoro caproate	2923-26-4
98	1H, 1H, 2H, 2H-perfluorodecyltrichlorosilane	78560-44-8
99	1H, 1H, 2H, 2H-Perfluorodecyltrimethoxysilane	83048-65-1
100	1H, 1H, 2H, 2H-Perfluorooctyl trichlorosilane	78560-45-9
101	Perfluorobutyl sulfonyl chloride	2991-84-6
102	Perfluorobutyl sulfonamide	30334-69-1
103	Lithium perfluorobutylsulfonate	131651-65-5
104	Potassium perfluoroanonanoate	21049-38-7
105	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-	307-63-1
106	Potassium eicosfluoroundecanoate, 2,2,3,3,4,4,5,5,6,6,7,7,8,9,9,10,11,11	307-71-1
107	1H, 1H, 2H, 2H-Perfluoro-1-iodododecane	2043-54-1



No.	Substance Name	CAS No.
108	1-iodo-1H,1H,2H,2H-perfluorodecane	30046-31-2
109	Perfluorohexanesulfonyl amide	41997-13-1
110	4,8-dioxy-3H-perfluoroanionic acid sodium	919005-14-4
111	Perfluoro-3-Methoxypropanoic acid	377-73-1
112	Perfluoro-4-methoxybutanoic acid	863090-89-5
113	Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6
114	Triphenylsulfonium nonaflate	144317-44-2
115	Dimethyl (phenyl) sulfonium perfluorobutanesulfonate	220133-51-7
116	Tetrabutylphosphorus perfluorobutylsulfonate	220689-12-3
117	Morpholinium perfluorobutanesulfonate	503155-89-3
118	Magnesium perfluorobutanesulfonate	507453-86-3
119	Ammonium 1,1,2,2,3,3,4,4,4-non afluorobutane-1-sulphonate	68259-10-9
120	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	209482-18-8
121	Phosphonium,triphenyl(phenylmethyl)-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3
122	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9
123	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate	108427-55-0
124	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
125	Ethanaminium,N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(Calculated in terms of PFHxS)	1310480-24-0
126	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
127	Methanaminium,N-[4-[[4-(dimethylamino)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
128	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
129	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
130	Sulfonium,triphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate(1:1)	144116-10-9
131	Quinolinium,1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-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
132	Iodonium,diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
133	Methanaminium, N,N,N-trimethyl-,salt with	189274-31-5



No.	Substance Name	CAS No.
	1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1: 1)	
134	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)	202189-84-2
135	Iodonium,bis[4-(1,1-dimethylethyl)phenyl]-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
136	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,gallium salt(9Cl)	341035-71-0
137	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
138	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,scandium(3+) salt (3:1)	350836-93-0
139	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,neodymium(3+) salt (3:1)	41184-65-0
140	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,yttrium(3+) salt (3:1)	41242-12-0
141	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
142	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
143	Perfluorohexane sulphonyl fluoride	423-50-7
144	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
145	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
146	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
147	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1)	60453-92-1
148	Iodonium,bis[(1,1-dimethylethyl)phenyl]-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl)	866621-50-3
149	Sulfonium,(4-methylphenyl)diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
150	Sulfonium,[4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
151	Sulfonium,[4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate,3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
152	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,cesium salt(1:1)(PFHxS-CsH)	92011-17-1
153	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
154	Potassium 2H,2H,3H,3H-Perfluoroundecanoate	83310-58-1

No.	Substance Name	CAS No.
155	Ammonium perfluorobutanoate	10495-86-0
156	Sodium perfluorobutanoate	2218-54-4
157	Potassium heptafluorobutanoate	2966-54-3
158	Silver perfluorobutanoate	3794-64-7
159	Sodium perfluoroheptanoate	20109-59-5
160	Potassium perfluoroheptanoate	21049-36-5
161	Ammonium perfluoroheptanoate	6130-43-4
162	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	114519-85-6
163	Sodium Perfluoroundecane sulfonic	—
164	Sodium perfluoropentanoate	2706-89-0
165	Potassium perfluoropentanoate	336-23-2
166	Ammonium perfluoropentanoate	68259-11-0
167	Potassium perfluoropentane-1-sulphonate	3872-25-1
168	ammonium nonadecafluorononanesulphonate	17202-41-4
169	Sodium perfluoro-1-dodecanesulfonate	1260224-54-1
170	Sodium perfluoro-1-tridecanesulfonate	174675-49-1
171	Perfluoroundecanoic acid sodium salt	60871-96-7
172	Ammonium perfluoroundecanoate	4234-23-5
173	9-Chlorohexadecafluoro-3-oxanonane- 1-sulfonic acid	756426-58-1
174	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
175	Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7
176	3-Perfluoropropyl propanoic acid	356-02-5
177	3-Perfluoroheptyl propanoic acid	812-70-4
178	Heptane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-7-iodo-	212563-43-4
179	2H,2H,3H,3H-Perfluorononanoic acid	27854-30-4
180	Perfluorohexanoic Anhydride	308-13-4
181	1-Methyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)imidazolium hexafluorophosphate	313475-50-2
182	Perfluorohexanoyl chloride	335-53-5
183	Perfluorohexanoyl fluoride	355-38-4
184	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid, K-salts	67118-55-2
185	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid, its acyl halides	2062-98-8
186	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid	13252-13-6
187	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4
188	Perfluorononane sulfonic acid (PFNS)	68259-12-1
189	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1
190	Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5
191	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8
192	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3

No.	Substance Name	CAS No.
193	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3
194	1H,1H,2H,2H-Perfluorododecanesulphonicacid (10:2 FTS)	120226-60-0
195	N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4
196	Trifluoroacetic Acid (TFA)	1976/5/1
197	Sodium trifluoroacetate (TFA-Na)	2923-18-4
198	Potassium trifluoroacetate (TFA-K)	2923-16-2
199	Lithium Trifluoroacetate (TFA-Li)	2923-17-3
200	Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7
201	Cesium Trifluoroacetate (TFA-Cs)	21907-50-6
202	Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0
203	Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6
204	Silver trifluoroacetate (TFA-Ag)	2966-50-9
205	Ammoniumtrifluoroacetate (TFA-NH ₄)	3336-58-1
206	Pentafluoropropionate acid (PFPrA)	422-64-0
207	Sodium pentafluoropropionate (PFPrA-Na)	378-77-8
208	Potassium pentafluoropropionate (PFPrA-K)	378-76-7
209	Silver Pentafluoropropionate (PFPrA-Ag)	509-09-1
210	Potassium 11-chloroeicosafuoro-3-oxaundecane- 1-sulfonate (11Cl-PF3OUdS-K)	83329-89-9
211	Potassium 9-chlorohexadecafluoro-3-oxanonane-1- sulfonate (9Cl-PF3ONS-K)	73606-19-6
212	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-	335-79-5
213	Lithium perfluoropentane sulfonate (PFPe-Li)	1046864-81-6
214	Ammonium perfluoropentanesulfonate (PFPe-NH ₄)	68259-09-6
215	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-	307-60-8
216	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-	376-04-5
217	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt (1:1)	423-49-4
218	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, silver(1+) salt (1:1)	133310-71-1
219	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)	133331-77-8
220	Methyl Undecafluorohexanoate	424-18-0
221	Silver perfluorohexanoate	336-02-7
222	Lithium perfluorohexanoate	90430-61-8
223	1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulphonyl chloride	55591-23-6
224	Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
225	Ammonium perfluoroheptanesulfonate	68259-07-4
226	Lithium perfluoroheptanesulfonate	117806-54-9



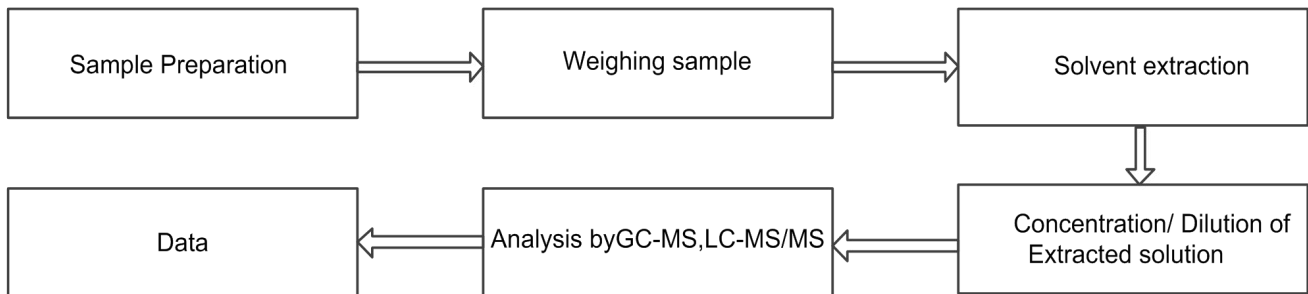
No.	Substance Name	CAS No.
227	Lithium perfluorobutanoate	4146-76-3
228	Cesium 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptanoate	171198-24-6
229	Silver;2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptanoate	424-05-5
230	Lithium perfluoroheptanoate	60871-90-1
231	Perfluoroundecanesulfonate	441296-91-9(a nion)
232	Lithium perfluoropentanoate	198482-22-3
233	Silver perfluoropentanoate	2795-30-4
234	Pentadecafluorooctanoic acid--piperazine (2/1)	423-52-9
235	Perfluorononanesulfonate potassium	29359-39-5
236	Potassium perfluoroundecanoate	30377-53-8
237	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate	5081-02-7
238	Ammonium perfluorotridecanoate	4288-72-6
239	Perfluorooctanesulfonamide lithium salt (1:1)	76752-79-9
240	6:2 Fluorotelomer sulfonate sodium salt	27619-94-9
241	6:2 Fluorotelomer sulfonate potassium salt	59587-38-1
242	6:2 Fluorotelomer sulfonate ammonium salt	59587-39-2
243	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+)	68141-02-6
244	Cobalt perfluorooctanoate	35965-01-6
245	Lithium perfluorooctanoate	17125-58-5
246	Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-	1882109-59-2
247	Hexanoic acid,2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-	1812247-20-3
248	Hexanoic acid,2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-	1812247-18-9
249	Hexanoic acid,2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-	1144512-36-6
250	Hexanoic acid,2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-	1144512-34-4
251	Heptanoic acid,2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-	909009-42-3
252	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-	207678-51-1
253	Hexanoic acid,2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-	35605-76-6
254	Hexanoic acid,2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9
255	Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-	1882109-58-1
256	Hexanoic acid,2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-	1812247-19-0
257	Hexanoic acid,3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-	1812247-17-8
258	Hexanoic acid,2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-	1192593-79-5
259	Hexanoic acid,2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-	1144512-35-5
260	Heptanoic acid,2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-	1144512-18-4
261	Heptanoic acid,2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-	705240-04-6
262	Heptanoic acid,2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-	15166-06-0

No.	Substance Name	CAS No.
263	Hexanoic acid,2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0
264	Hexanoic acid,2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-	1882109-79-6
265	Hexanoic acid,2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-	1882109-78-5
266	Pentanoic acid,2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-	1882109-77-4
267	Pentanoic acid,2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	1882109-76-3
268	Pentanoic acid,2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-	1882109-75-2
269	Pentanoic acid,2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-	1882109-74-1
270	Pentanoic acid,2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-	1882109-73-0
271	Pentanoic acid,2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-	1882109-72-9
272	Pentanoic acid,2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-	1882109-71-8
273	Pentanoic acid,3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-	1882109-70-7
274	Pentanoic acid,2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-68-3
275	Pentanoic acid,2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-67-2
276	Pentanoic acid,2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-66-1
277	Pentanoic acid,2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-65-0
278	Pentanoic acid,2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-64-9
279	Pentanoic acid,3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-63-8
280	Pentanoic acid,3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-	1882109-69-4
281	Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-	1882109-62-7
282	Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882109-61-6
283	Butanoic acid,2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-	1882109-60-5
284	Hexanoic acid,2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1);	13058-06-5
285	Hexanoic acid,2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)	1195164-59-0
286	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)	19742-57-5
287	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)	61436-04-2
288	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)	29457-73-6

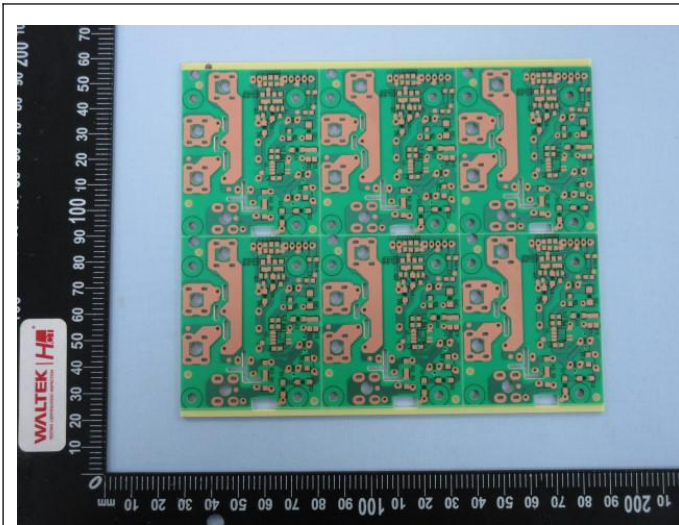


No.	Substance Name	CAS No.
289	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)	18017-22-6
290	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)	15739-82-9
291	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)	15715-47-6
292	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-, ammonium salt (1:1)	207678-62-4
293	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-, sodium salt (1:1)	207678-72-6
294	Heptanoic acid,2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-, sodium salt (1:1)	646-84-4

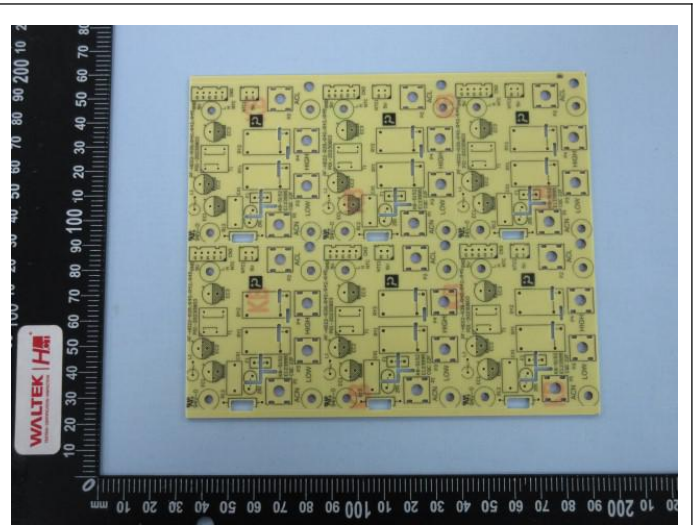
Test Flow Chart:



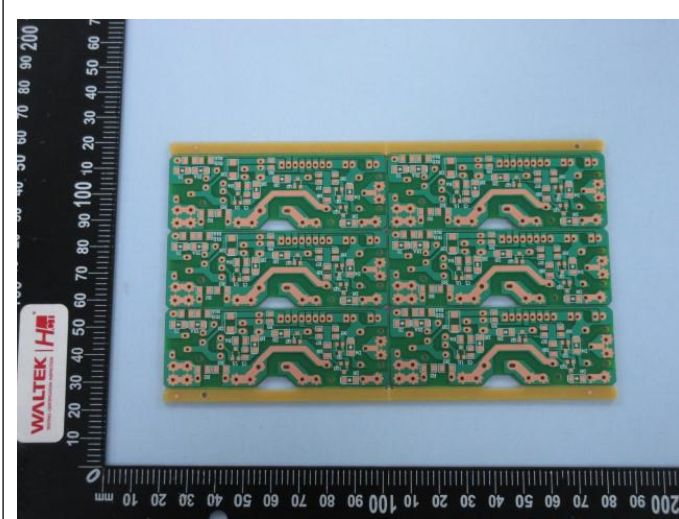
The photo of the sample



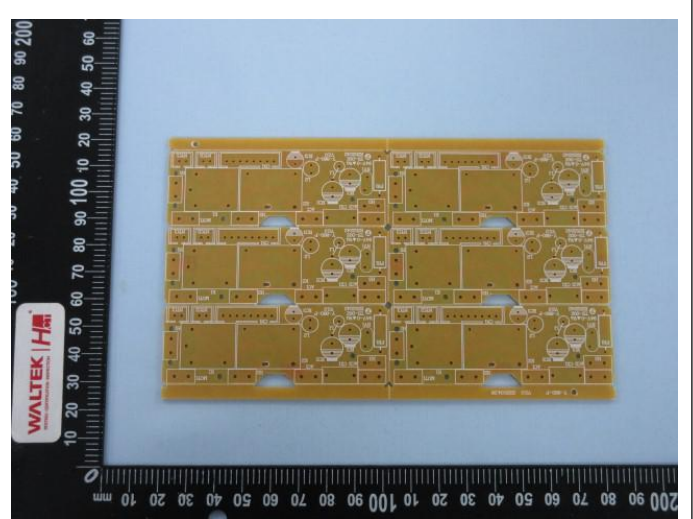
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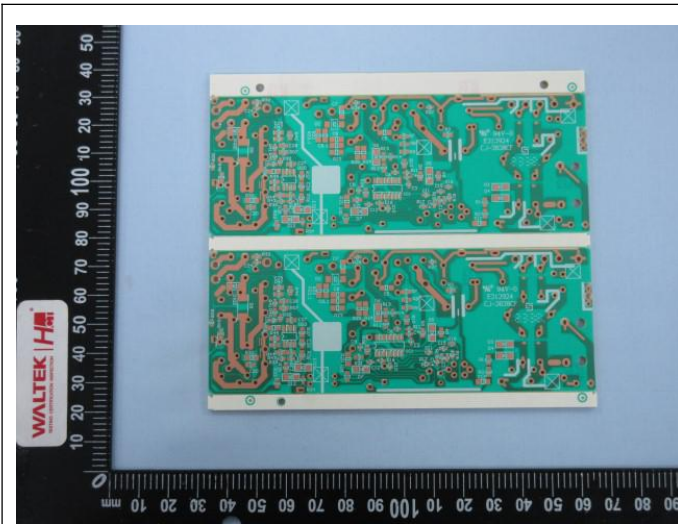


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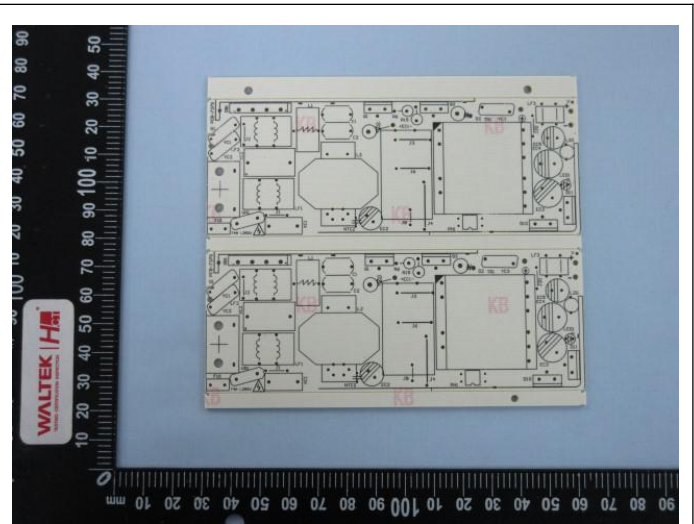


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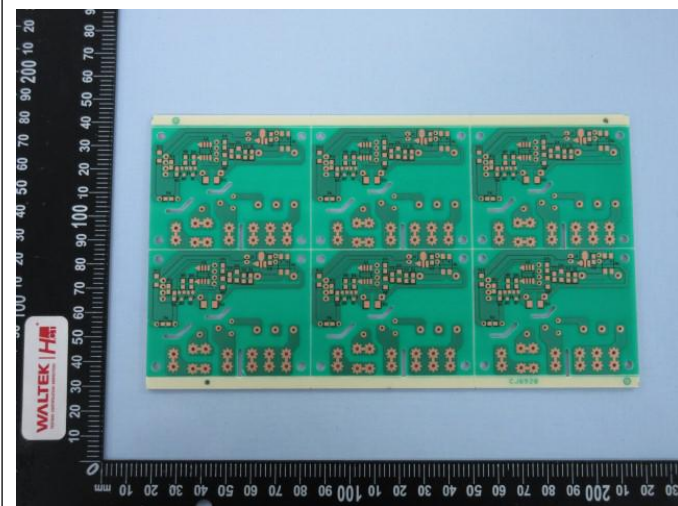




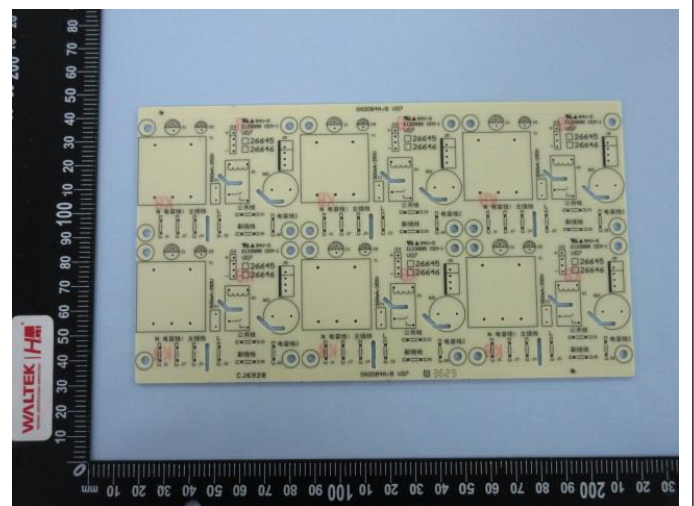
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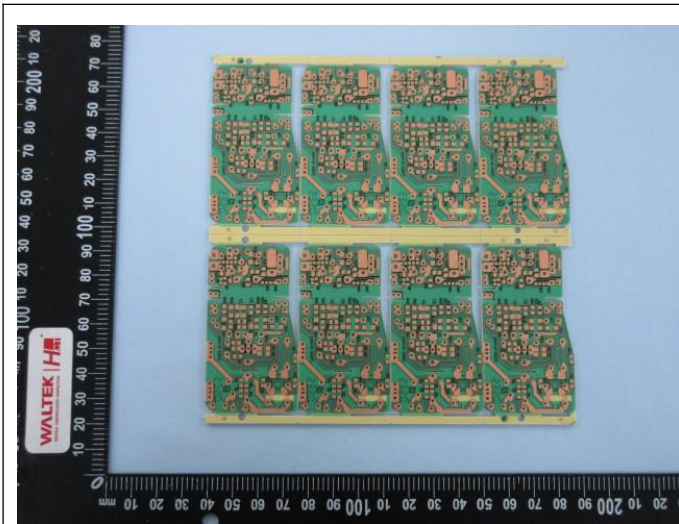


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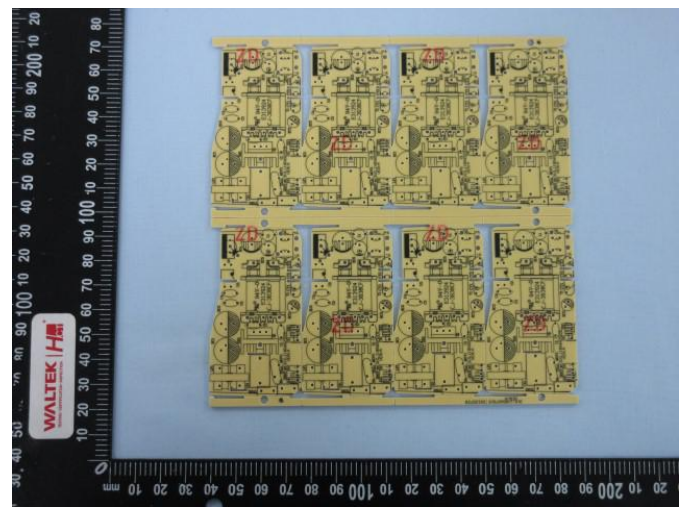


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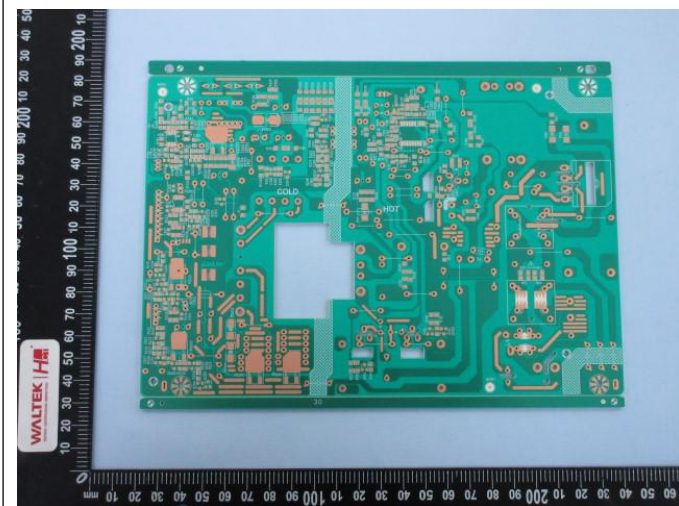




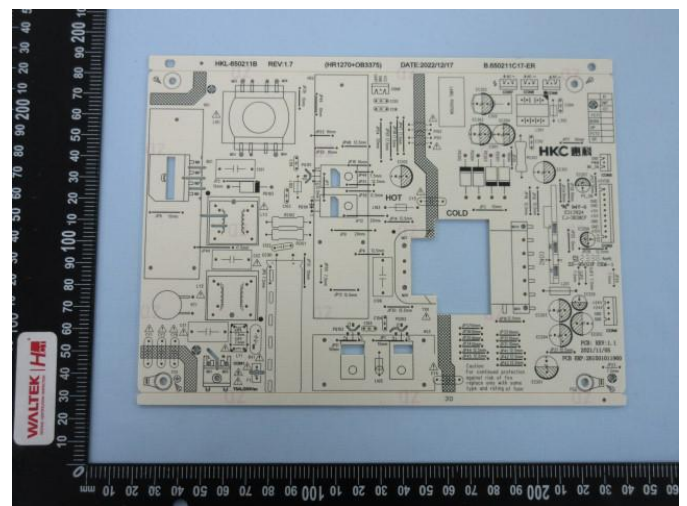
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WTH23H09207802C~03C.5



WTH23H09207802C~03C.6



WTH23H09207802C~03C.6

Statement:

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2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified.
3. The result(s)(conclusion) shown in this report refer(s) only to the sample(s) tested.
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===== End of Report =====

