

Test Report

No.: SHAEC24002372102

Date: Mar 20, 2024

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Client Name: Renac Power Technology Co., Ltd.

Client Address: Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone, Suzhou Hi-Tech District, Suzhou, China

Sample Name: TB-H3-9.5

Client Ref. Information: TB-H3-7.1, TB-H3-9.5

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-003404

Sample Receiving Date: Jan 31, 2024

Testing Period: Jan 31, 2024 ~ Mar 14, 2024

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	Conclusion
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Tin Screening for Organotin	See Result
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Organotin compounds	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Tom Ni

Tom Ni
Approved Signatory

scan to see the report



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Test Result(s):

Photo of Submitted Sample



SGS authenticate the photo on original report only

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0023721-0001.C001	Black plastic
SN2	A2	SHA24-0023721-0001.C002	Black plastic
SN3	A3	SHA24-0023721-0001.C003	Black plastic
SN4	A4	SHA24-0023721-0001.C004	Orange plastic
SN5	A5	SHA24-0023721-0001.C005	Red plastic
SN6	A6	SHA24-0023721-0001.C006	White plastic
SN7	A7	SHA24-0023721-0001.C007	Gray plastic
SN8	A8	SHA24-0023721-0001.C008	Black plastic
SN9	A9	SHA24-0023721-0001.C009	Brown rubber
SN10	A10	SHA24-0023721-0001.C010	Black plastic
SN11	A11	SHA24-0023721-0001.C011	Black plastic
SN12	A12	SHA24-0023721-0001.C012	Black plastic
SN13	A13	SHA24-0023721-0001.C013	Black foam
SN14	A14	SHA24-0023721-0001.C014	Black plastic
SN15	A15	SHA24-0023721-0001.C015	White plastic
SN16	A16	SHA24-0023721-0001.C016	Blue plastic
SN17	A17	SHA24-0023721-0001.C017	Red plastic
SN18	A18	SHA24-0023721-0001.C018	Yellow plastic
SN19	A19	SHA24-0023721-0001.C019	Black plastic
SN20	A20	SHA24-0023721-0001.C020	Red plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN21	A21	SHA24-0023721-0001.C021	White fibreglass
SN22	A22	SHA24-0023721-0001.C022	Gray adhesive
SN23	A23	SHA24-0023721-0001.C023	Gray plastic
SN24	A24	SHA24-0023721-0001.C024	Black epoxy
SN25	A25	SHA24-0023721-0001.C025	Black plastic
SN26	A26	SHA24-0023721-0001.C026	Green PCB
SN27	A27	SHA24-0023721-0001.C027	Silvery battery
SN28	A28	SHA24-0023721-0001.C028	Silvery battery
SN29	A1+A2+A3	SHA24-0023721-0002	Black plastic + Black plastic + Black plastic
SN30	A4+A5+A7	SHA24-0023721-0003	Orange plastic + Red plastic + Gray plastic
SN31	A8+A9+A10	SHA24-0023721-0004	Black plastic + Brown rubber + Black plastic
SN32	A11+A12+A14	SHA24-0023721-0005	Black plastic + Black plastic + Black plastic
SN33	A19+A20	SHA24-0023721-0006	Black plastic + Red plastic
SN34	A12+A13	SHA24-0023721-0007	Black plastic + Black foam
SN35	A14+A19	SHA24-0023721-0008	Black plastic + Black plastic
SN36	A20+A21	SHA24-0023721-0009	Red plastic + White fibreglass
SN37	A22+A23	SHA24-0023721-0010	Gray adhesive + Gray plastic
SN38	A24+A25	SHA24-0023721-0011	Black epoxy + Black plastic

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Total Tin Screening for Organotin

Test Method: SGS In-house method, analysis was performed by EDXRF.

Test Item(s)	Unit(s)	MDL	A1	A2	A3
Tin (Sn)	mg/kg	700	<700	<700	<700

Test Item(s)	Unit(s)	MDL	A4	A5	A6
Tin (Sn)	mg/kg	700	<700	<700	<700

Test Item(s)	Unit(s)	MDL	A7	A8	A9
Tin (Sn)	mg/kg	700	<700	<700	<700

Test Item(s)	Unit(s)	MDL	A10	A11	A12
Tin (Sn)	mg/kg	700	<700	<700	<700

Test Item(s)	Unit(s)	MDL	A14	A15	A16
Tin (Sn)	mg/kg	700	<700	>700#	>700#



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Test Item(s)	Unit(s)	MDL	A17	A18	A19
Tin (Sn)	mg/kg	700	>700#	>700#	<700

Test Item(s)	Unit(s)	MDL	A20	A26
Tin (Sn)	mg/kg	700	<700	<700

Notes:

- (1) Confirmation test of organic tin is not required in case of Total Tin, after conversion, does not exceed the Organotin by weight of Tin requirement as specified in Entry 20 of Annex XVII.
- (2)#=If the Total Tin content is over 700 mg/kg, it is strongly recommended to perform further Organotin test to check the compliance with Entry 20 of REACH ANNEX XVII.

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Organotin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A15	A16	A17
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A18
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND
Conclusion				Pass



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Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A4+A5+A7	A8+A9+A10
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A11+A12+A14	A19+A20
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND
Conclusion					Pass	Pass

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances

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



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A27	A28	A12+A13
C9-C14 PFCA, their salts							
Perfluorononane Acid (PFNA), its salts [^]	375-95-1	-	µg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts [^]	335-76-2	-	µg/kg	10	ND	ND	ND
Perfluoroundecanoic Acid (PFUnDA), its salts [^]	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecanoic Acid (PFDoDA), its salts [^]	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA), its salts [^]	72629-94-8	-	µg/kg	10	ND	ND	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND	ND	ND
C9-C14 PFCA-related substances							
Perfluorodecane Sulfonate (PFDS), its salts [^]	335-77-3	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecan	120226-60-0	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A27	A28	A12+A13
e sulfonic acid (10:2 FTS)							
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-	678-39-7	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A27	A28	A12+A13
decanol (8:2 FTOH)							
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H-Heptafluorodecyl-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A14+A19	A20+A21	A22+A23
C9-C14 PFCA, their salts							
Perfluorononanoic Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND	ND	ND
Perfluorodecanoic Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND	ND	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A14+A19	A20+A21	A22+A23
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND	ND	ND
C9-C14 PFCA-related substances							
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A14+A19	A20+A21	A22+A23
Perfluorotridecane sulfonic acid (PFTrDS), its salts [^]	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), its salts [^]	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts [^]	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts [^]	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts [^]	34598-33-9	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A14+A19	A20+A21	A22+A23
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A24+A25
C9-C14 PFCA, their salts					
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND
C9-C14 PFCA-related substances					
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl	2144-54-9	-	µg/kg	100	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A24+A25
methacrylate (10:2 FTMA)					
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyl	1996-88-9	-	µg/kg	100	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A24+A25
methacrylate (8:2 FTMA)					
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts [^]	27854-31-5	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltriet hoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro decyl) hydrogen phosphate (8:2 diPAP), its salts [^]	678-41-1	-	µg/kg	10	ND
2H,2H,3H,3H-Perfluoroundecan oic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts [^]	34598-33-9	-	µg/kg	10	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
Conclusion					Pass

Notes:

- (1) 1µg/kg=1ppb.
- (2) Until 25 August 2024, the concentration limit for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCAs, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (3) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCAs, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (4) [^]=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
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PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7
Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
PFUnDA, its salts	
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
PFDODA, its salts	
Perfluorododecanoic Acid (PFDODA)	307-55-1
Ammonium tricosafuorododecanoate (PFDODA-NH ₄)	3793-74-6
Sodium perfluorododecanoate (PFDODA-Na)	60872-01-7
PFTrDA, its salts	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6
PFDS, its salts	
Perfluorodecane Sulfonate (PFDS)	335-77-3
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
PFNS, its salts	
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1
Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2
ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
PFDODS, its salts	
Perfluorododecanesulfonic acid (PFDODS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFDODS-Na)	1260224-54-1
PFTrDS, its salts	
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8
Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-Na)	27619-96-1
H₂PFDA/8:2 FTCA, its salts	



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Test Report

No.: SHAEC24002372102

Date: Mar 20, 2024

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2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
H₄PFUnDA/ 8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1

Test was conducted on composite of random parts of the item as per client's request. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

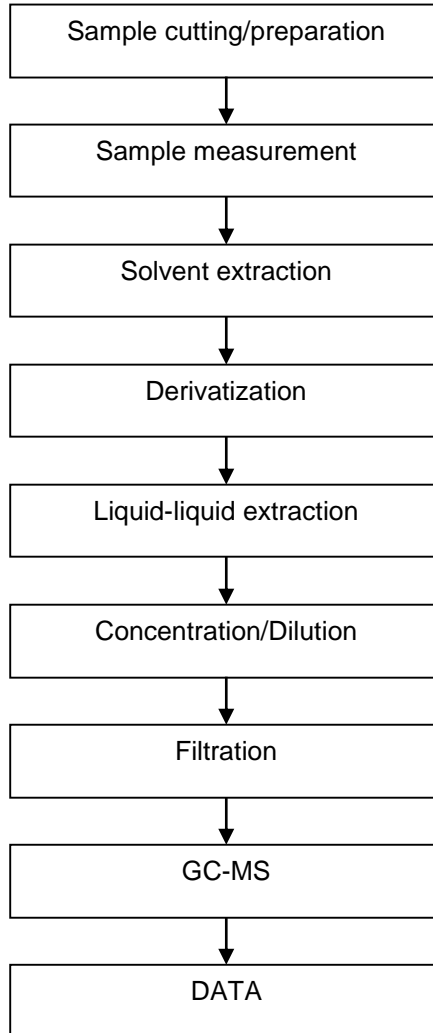


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Organotin Testing Flow Chart



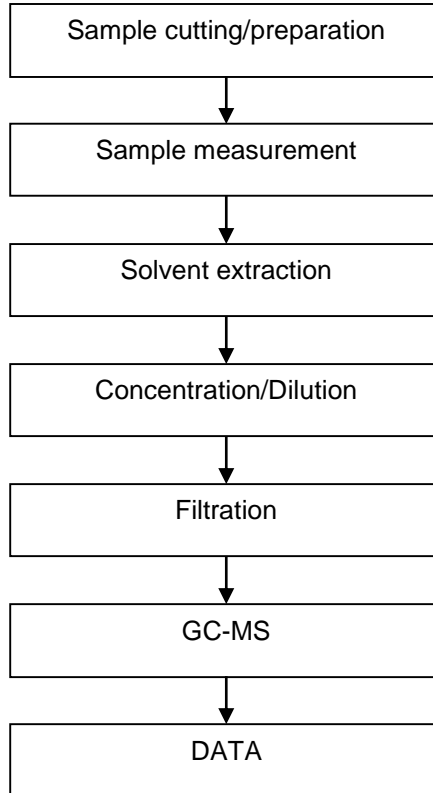
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PAHs Testing Flow Chart



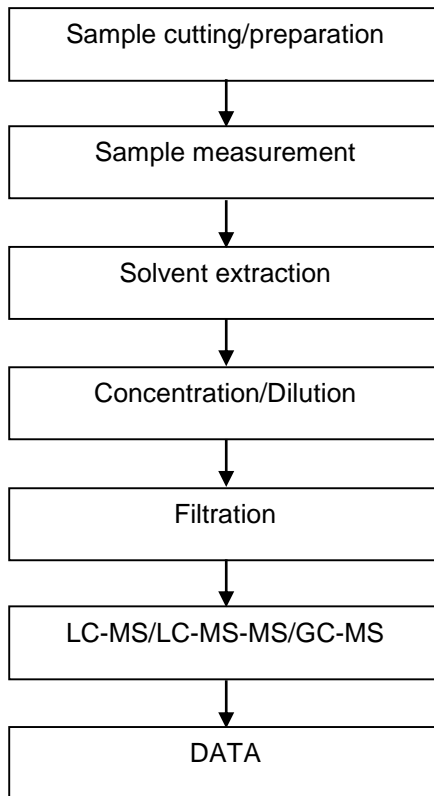
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PFASs/ PFOS/PFOA Testing Flow Chart



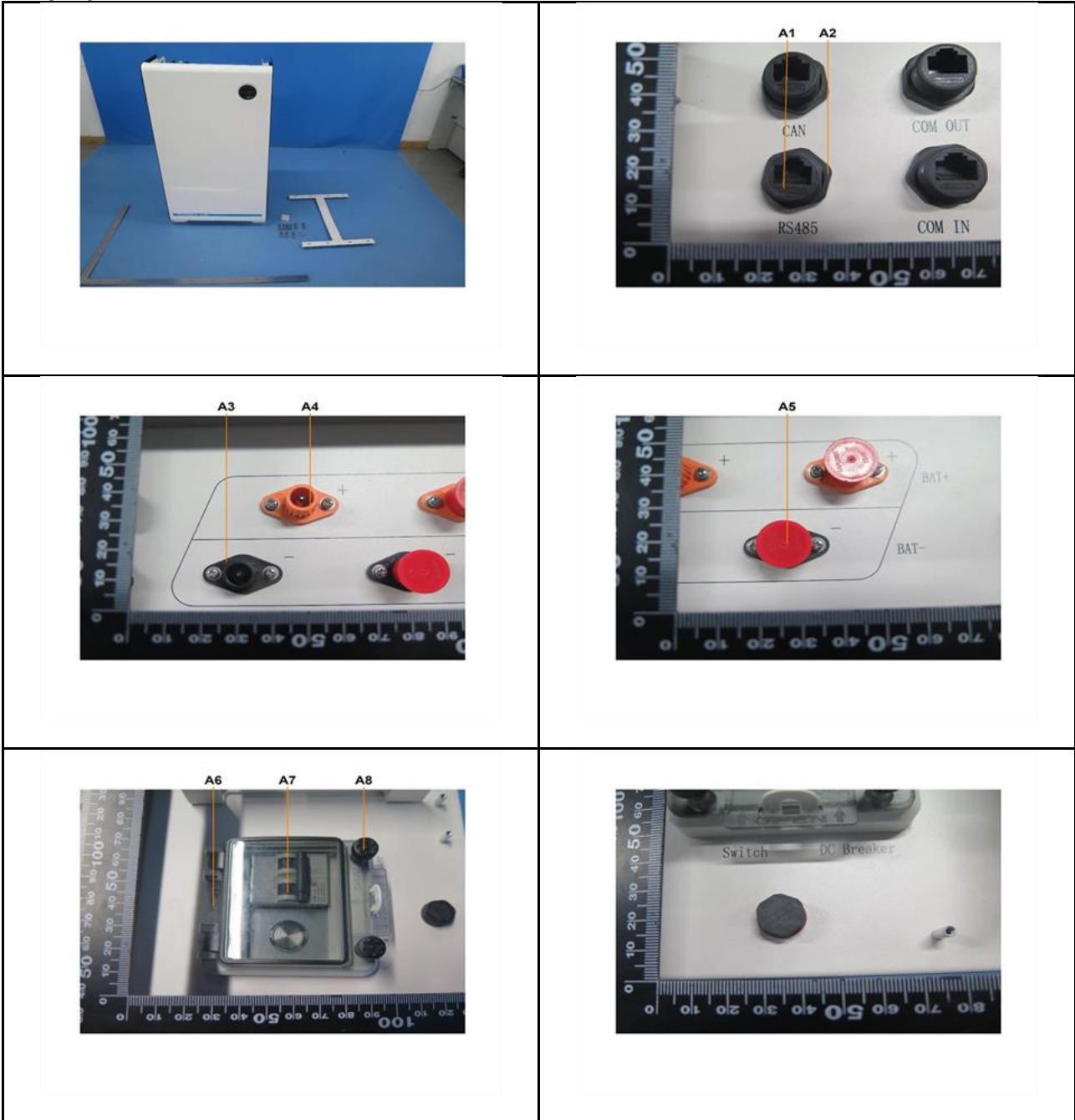
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Sample photos:

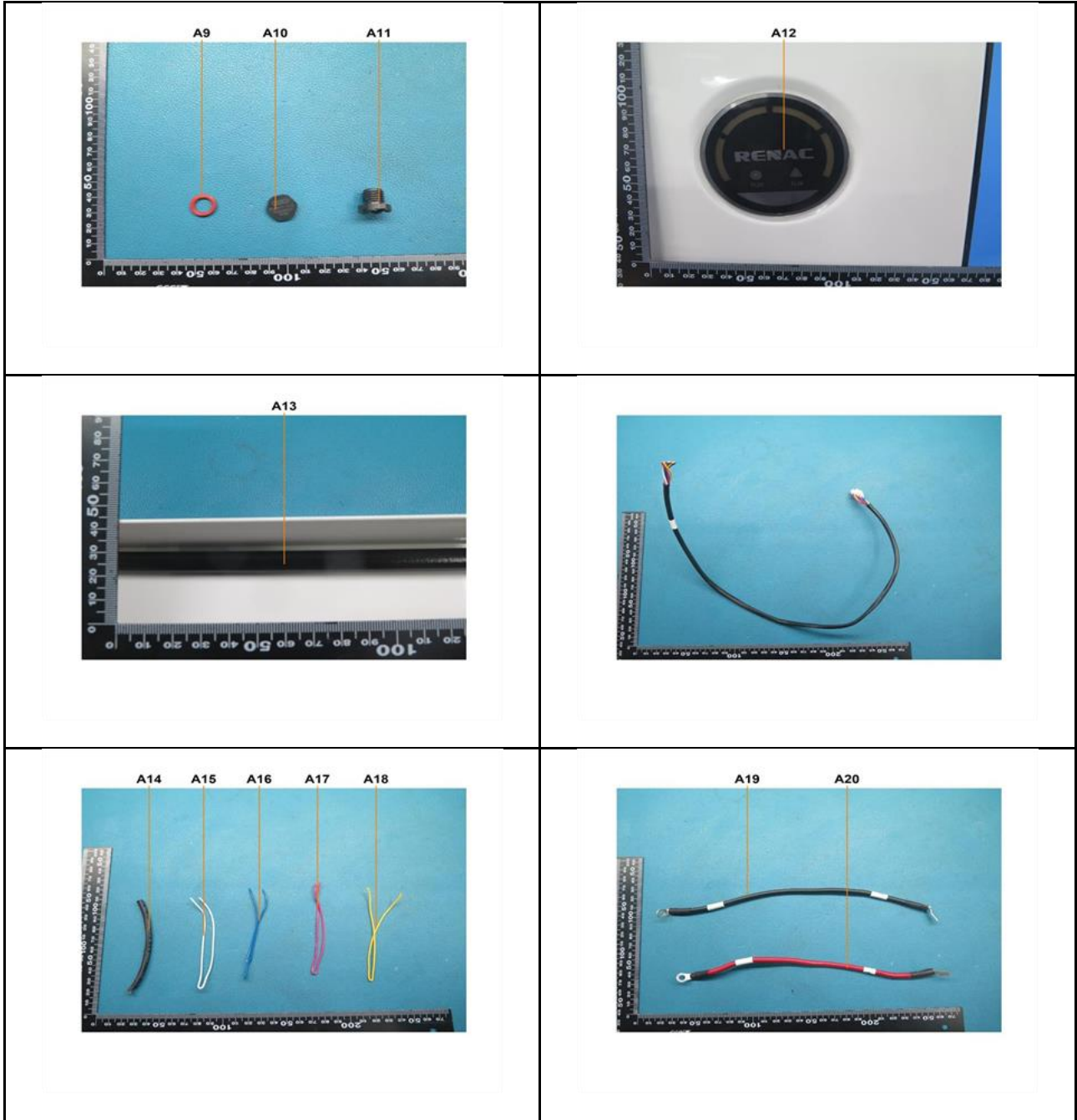


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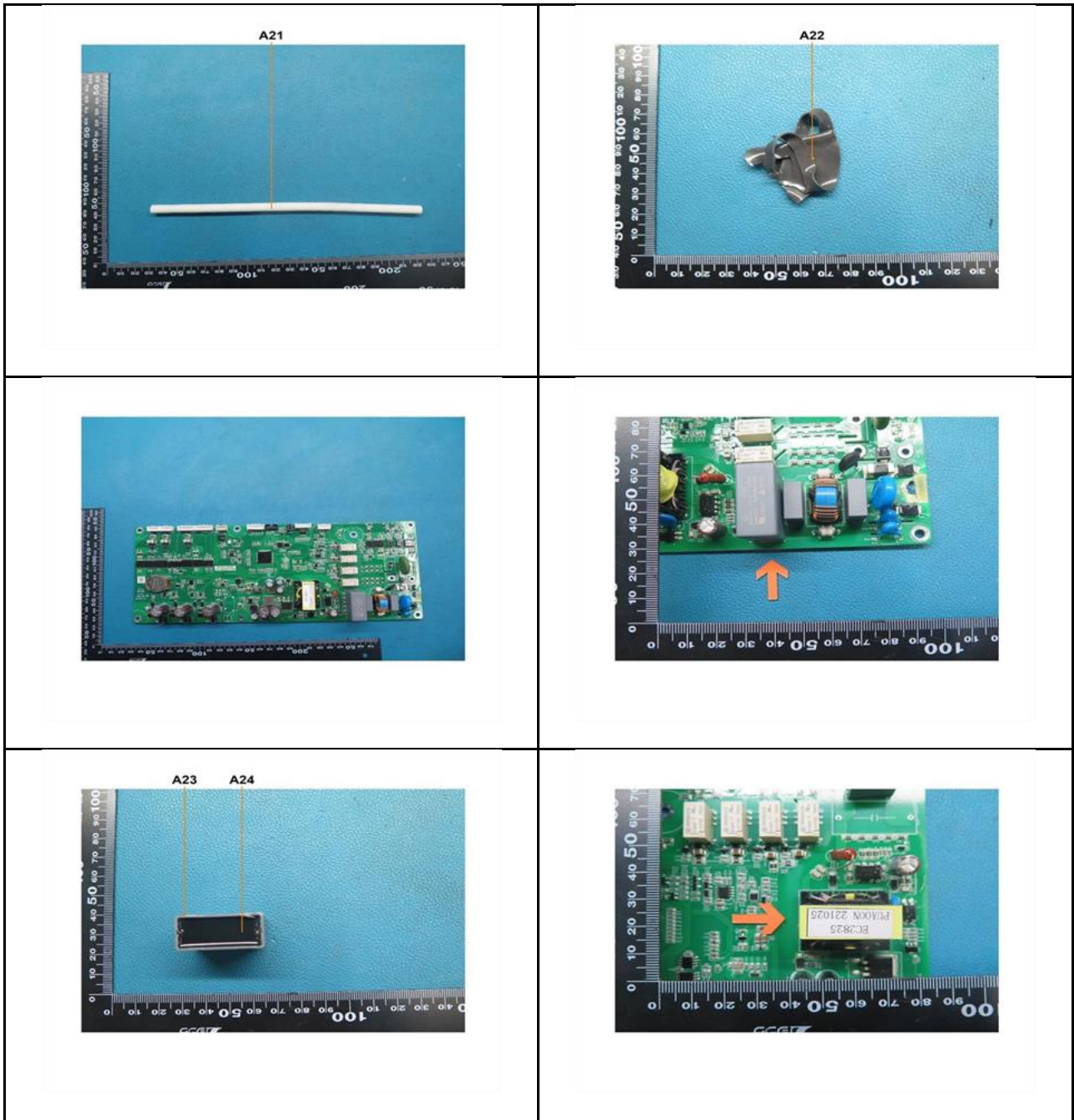
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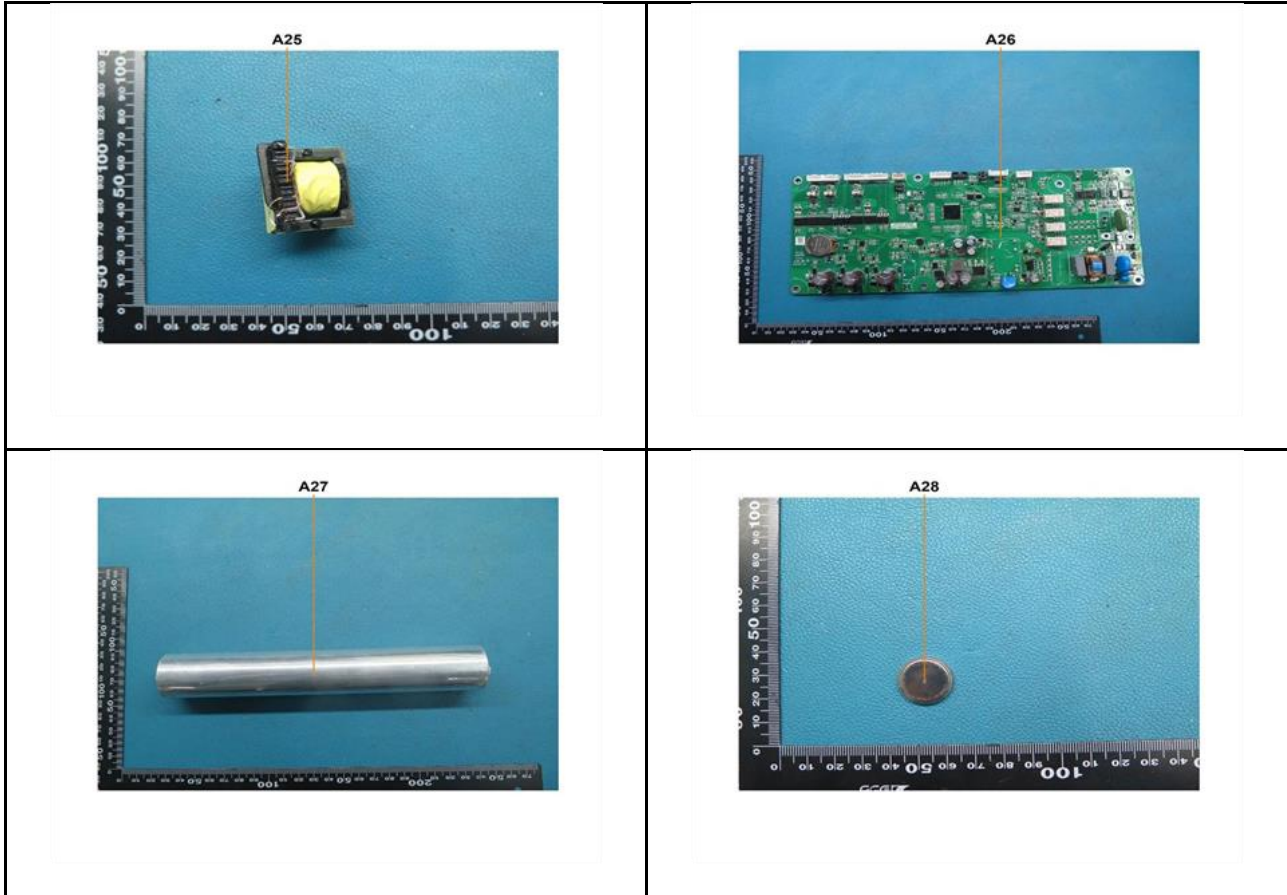
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