

Verification Report No.: CANEC25011421001 Date: Jun 09, 2025 Page 1 of 28

Client Name: JIAYU ENERGY TECHNOLOGY CO., LTD
 Client Address: UNIT 1, BUILDING 3, NO.3 NANSHAN ROAD, SONGSHAN LAKE PARK. DONGGUAN CITY. 523000 GUANGDONG P.R. CHINA

Sample Name: PV Microinverter

Model No.: JMI-800

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

SGS Job No.: SZP25-024475
 Sample Receiving Date: May 19, 2025
 Testing Period: May 19, 2025 ~ Jun 09, 2025
 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
European Regulation POPs (EU) 2024/2570 amending to Regulation (EU) 2019/1021 Annex I - Alkanes, C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) and Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	Pass
European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives	Pass
European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds	Pass
European Regulation POPs (EU) 2019/1021 Annex I-Halogenated compounds	Pass

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Liao

Jenny Liao
 Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0114210-0001.C001	Black plastic (cable jacket) with white printing
SN2	A2	CAN25-0114210-0001.C002	Black plastic part
SN3	A3	CAN25-0114210-0001.C003	Black plastic part
SN4	A4	CAN25-0114210-0001.C004	Blue plastic part
SN5	A5	CAN25-0114210-0001.C005	Blue plastic (wire insulation)
SN6	A6	CAN25-0114210-0001.C006	Brown plastic (wire insulation)
SN7	A7	CAN25-0114210-0001.C007	Yellow/green plastic (wire insulation)
SN8	A8	CAN25-0114210-0001.C008	Black plastic part
SN9	A9	CAN25-0114210-0001.C009	Black plastic part
SN10	A10	CAN25-0114210-0001.C010	Black adhesive plastic sheet
SN11	A11	CAN25-0114210-0001.C011	Black plastic part
SN12	A12	CAN25-0114210-0001.C012	Black plastic part
SN13	A13	CAN25-0114210-0001.C013	Black plastic part
SN14	A14	CAN25-0114210-0001.C014	Black "PCB"
SN15	A15	CAN25-0114210-0001.C015	Black rubber part
SN16	A16	CAN25-0114210-0001.C016	Black plastic (cable jacket)
SN17	A17	CAN25-0114210-0001.C017	Transparent plastic (wire insulation)
SN18	A18	CAN25-0114210-0001.C018	Black plastic part
SN19	A19	CAN25-0114210-0001.C019	Black plastic part
SN20	A20	CAN25-0114210-0001.C020	Black plastic part
SN21	A21	CAN25-0114210-0001.C021	Black plastic shell with white printing
SN22	A22	CAN25-0114210-0001.C022	Black rubber cover
SN23	A23	CAN25-0114210-0001.C023	Transparent adhesive plastic sheet
SN24	A24	CAN25-0114210-0001.C024	Brown paper sheet with liquid
SN25	A25	CAN25-0114210-0001.C025	Grey plastic shell with white printing
SN26	A26	CAN25-0114210-0001.C026	Black block (envelopment)
SN27	A27	CAN25-0114210-0001.C027	Silvery block(filling)
SN28	A28	CAN25-0114210-0001.C028	Grey plastic shell with white printing
SN29	A29	CAN25-0114210-0001.C029	Yellow plastic sheet
SN30	A30	CAN25-0114210-0001.C030	Blue surfaced material ring
SN31	A31	CAN25-0114210-0001.C031	Black "PCB"
SN32	A32	CAN25-0114210-0001.C032	Brown transparent adhesive plastic sheet
SN33	A33	CAN25-0114210-0001.C033	Yellow adhesive plastic sheet
SN34	A34	CAN25-0114210-0001.C034	Black plastic part
SN35	A35	CAN25-0114210-0001.C035	Brown plastic shell with white printing
SN36	A36	CAN25-0114210-0001.C036	Black plastic part
SN37	A37	CAN25-0114210-0001.C037	White plastic shell with grey printing
SN38	A38	CAN25-0114210-0001.C038	Black plastic part
SN39	A39	CAN25-0114210-0001.C039	White plastic part
SN40	A40	CAN25-0114210-0001.C040	Grey plastic shell with white printing
SN41	A41	CAN25-0114210-0001.C041	Black plastic part
SN42	A42	CAN25-0114210-0001.C042	Grey plastic shell with grey printing
SN43	A43	CAN25-0114210-0001.C043	Black plastic shell



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SN ID	Sample No.	SGS Sample ID	Description
SN44	A44	CAN25-0114210-0001.C044	Black glue
SN45	A45	CAN25-0114210-0001.C045	White translucent plastic tube
SN46	A46	CAN25-0114210-0001.C046	Yellow plastic sheet
SN47	A47	CAN25-0114210-0001.C047	Black plastic part
SN48	A48	CAN25-0114210-0001.C048	Green "PCB"
SN49	A49	CAN25-0114210-0001.C049	Transparent plastic part
SN50	A50	CAN25-0114210-0001.C050	Grey material sheet
SN51	A51	CAN25-0114210-0001.C051	Black adhesive plastic sheet
SN52	A1+A2	CAN25-0114210-0002	Black plastic (cable jacket) with white printing + Black plastic part
SN53	A3+A4	CAN25-0114210-0003	Black plastic part + Blue plastic part
SN54	A8+A11	CAN25-0114210-0004	Black plastic part + Black plastic part
SN55	A13+A18	CAN25-0114210-0005	Black plastic part + Black plastic part
SN56	A48+A51	CAN25-0114210-0006	Green "PCB" + Black adhesive plastic sheet

Remarks:

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

European Regulation POPs (EU) 2024/2570 amending to Regulation (EU) 2019/1021 Annex I - Alkanes, C₁₀-C₁₃, chloro (short chain-chlorinated paraffins) (SCCPs) and Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to SGS In-House method, analysis was performed by EDXRF and GC-NCI-MS / GC-ECD / GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2	A3
Cl	-	-	mg/kg	100	IN	BL	IN
SCCPs	85535-84-8	1500	mg/kg	500	ND	-	ND
Br	-	-	mg/kg	-	BL	IN	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	-	ND	-
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4	A5	A6
Cl	-	-	mg/kg	100	BL	IN	IN
SCCPs	85535-84-8	1500	mg/kg	500	-	ND	ND
Br	-	-	mg/kg	-	IN	BL	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	-	-
Conclusion					Pass	Pass	Pass



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A7	A8	A9
Cl	-	-	mg/kg	100	IN	BL	IN
SCCPs	85535-84-8	1500	mg/kg	500	ND	-	ND
Br	-	-	mg/kg	-	BL	IN	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	-	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10	A11	A12
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	BL	BL	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	-	-	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13	A14	A15
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	IN	IN	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	ND	-
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A16	A17	A18
Cl	-	-	mg/kg	100	IN	IN	BL
SCCPs	85535-84-8	1500	mg/kg	500	ND	ND	-
Br	-	-	mg/kg	-	BL	BL	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	-	-	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A19	A20	A21
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	IN	IN	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8	75	mg/kg	50	ND	ND	-



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A19	A20	A21
	/25637-99-4 /3194-55-6						
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A22	A23	A24
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	BL	BL	BL
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A26	A27
Cl	-	-	mg/kg	100	BL	IN	BL
SCCPs	85535-84-8	1500	mg/kg	500	-	ND	-
Br	-	-	mg/kg	-	IN	IN	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	ND	-
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A28	A29	A30
Cl	-	-	mg/kg	100	BL	IN	BL
SCCPs	85535-84-8	1500	mg/kg	500	-	ND	-
Br	-	-	mg/kg	-	IN	IN	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A31	A32	A33
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	BL	BL	BL
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34	A35	A36
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	BL	BL	BL
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A37	A38	A39
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	IN	IN	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A37	A38	A39
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A40	A41	A42
Cl	-	-	mg/kg	100	IN	BL	BL
SCCPs	85535-84-8	1500	mg/kg	500	ND	-	-
Br	-	-	mg/kg	-	IN	BL	IN
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	-	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A43	A44	A45
Cl	-	-	mg/kg	100	BL	BL	IN
SCCPs	85535-84-8	1500	mg/kg	500	-	-	ND
Br	-	-	mg/kg	-	IN	BL	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	ND	-	-
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A46	A47	A48
Cl	-	-	mg/kg	100	BL	BL	BL
Br	-	-	mg/kg	-	BL	IN	BL
HBCDD	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	50	-	ND	-
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A49	A50	A51
Cl	-	-	mg/kg	100	IN	IN	BL
SCCPs	85535-84-8	1500	mg/kg	500	ND	ND	-
Br	-	-	mg/kg	-	BL	BL	BL
Conclusion					Pass	Pass	Pass

Notes:

(1) There are the results on total Cl while test items on restricted substances are SCCPs and total Br are HBCDD.

Results are obtained by EDXRF for primary screening, (Cl: $BL \leq (400-3\sigma) < X$, Br: $BL \leq (50-3\sigma) < X$), and further chemical testing by GC-NCI-MS / GC-ECD / GC-MS for SCCPs or HBCDD is recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

(2) BL = Below Limit, IN = Inconclusive.

(3) The EDXRF screening test for Br and Cl elements, the reading may be different to the actual content in the sample be of non-uniformity composition.



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(4) The exemptions laid down for HBCDD shall be reviewed and assessed by the Commission by 1 January 2026.

European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives

Test Method: With reference to modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
PFOS, its salts and related compounds							
Perfluorooctane sulfonic acid (PFOS), its salts [^]	1763-23-1	-	mg/kg	0.010	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonamide (PFOSA), its salts [^]	754-91-6	-	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^]	2806-24-8	-	mg/kg	0.010	ND	ND	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [^]	2355-31-9	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [^]	2991-50-6	-	mg/kg	0.010	ND	ND	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	1000	mg/kg	-	ND	ND	ND
PFOA, its salts							
Perfluorooctanoic acid (PFOA), its salts [^]	335-67-1	0.025	mg/kg	0.010	ND	ND	ND
PFOA-related compounds							
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts [^]	39108-34-4	1	mg/kg	0.010	ND	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	mg/kg	0.200	ND	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	1	mg/kg	0.200	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	mg/kg	0.100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND	ND	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	1	mg/kg	0.200	ND	ND	ND
2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts [^]	27854-31-5	1	mg/kg	0.010	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	1	mg/kg	0.100	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	1	mg/kg	0.010	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts^	34598-33-9	1	mg/kg	0.010	ND	ND	ND
1H,1H,2H-Heptafluorodec-1-ene (PFDE)	21652-58-4	1	mg/kg	0.100	ND	ND	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	1	mg/kg	0.100	ND	ND	ND
2H-Perfluoro-2-decanoic acid (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND	ND	ND
6:8 Perfluorophosphonic acid (6:8 PFPI)	610800-34-5	1	mg/kg	0.010	ND	ND	ND
8:8 Perfluorophosphonic acid (8:8 PFPI), its salts^	40143-79-1	1	mg/kg	0.010	ND	ND	ND
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	1	mg/kg	0.100	ND	ND	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^	57678-03-2	1	mg/kg	0.100	ND	ND	ND
Sum of PFOA-related compounds	-	1	mg/kg	-	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13+A18	A48+A51
PFOS, its salts and related compounds						
Perfluorooctane sulfonic acid (PFOS), its salts [^]	1763-23-1	-	mg/kg	0.010	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND	ND
Perfluorooctane sulfonamide (PFOSA), its salts [^]	754-91-6	-	mg/kg	0.010	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^]	2806-24-8	-	mg/kg	0.010	ND	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [^]	2355-31-9	-	mg/kg	0.010	ND	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [^]	2991-50-6	-	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13+A18	A48+A51
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	1000	mg/kg	-	ND	ND
PFOA, its salts						
Perfluorooctanoic acid (PFOA), its salts [^]	335-67-1	0.025	mg/kg	0.010	ND	ND
PFOA-related compounds						
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts [^]	39108-34-4	1	mg/kg	0.010	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	mg/kg	0.200	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	1	mg/kg	0.200	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	1	mg/kg	0.200	ND	ND
2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts [^]	27854-31-5	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	1	mg/kg	0.100	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorod	678-41-1	1	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13+A18	A48+A51
ecyl) hydrogen phosphate (8:2 diPAP), its salts ^						
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts^	34598-33-9	1	mg/kg	0.010	ND	ND
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	1	mg/kg	0.100	ND	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorodecyltrichlorosilane/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	1	mg/kg	0.100	ND	ND
2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND	ND
6:8 Perfluorophosphonic acid (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND	ND
8:8 Perfluorophosphonic acid (8:8 PFPi), its salts^	40143-79-1	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	1	mg/kg	0.100	ND	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^	57678-03-2	1	mg/kg	0.100	ND	ND
Sum of PFOA-related compounds	-	1	mg/kg	-	ND	ND
Conclusion					Pass	Pass

Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1



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Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecyl-1-aminium heptafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C ₄ H ₉) ₄)	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-((heptafluorooctyl)sulfonyl)-, potassium salt (N-Et-FOSAA-K)	2991-51-7



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2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7
8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5



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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
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1
Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄)	93776-20-6
8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
8:8 PFPI, its salts	
8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1
Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)	500776-69-2
Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)	500776-70-5
Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)	500776-71-6
8:2 monoPAP, its salts	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2
8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8

(2) The conclusion is only applicable to the substance list in the report.

European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds

Test Method: Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
PFHxS, its salts							
Perfluorohexanesulfonic acid (PFHxS), its salts [^]	355-46-4	0.025	mg/kg	0.010	ND	ND	ND
PFHxS-related compounds							
N-Methylperfluoro-	68259-15-4	1	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
1-hexanesulfonamide (N-Me-PFHxSA)							
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND	ND	ND
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND	ND	ND
2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND	ND	ND
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	1	mg/kg	0.200	ND	ND	ND
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	1	mg/kg	0.200	ND	ND	ND
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl- (MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND	ND	ND
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts [^]	68957-32-4	1	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2	A3+A4	A8+A11
Sum of PFHxS-related compounds	-	1	mg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13+A18	A48+A51
PFHxS, its salts						
Perfluorohexanesulfonic acid (PFHxS), its salts [^]	355-46-4	0.025	mg/kg	0.010	ND	ND
PFHxS-related compounds						
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	1	mg/kg	0.010	ND	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND	ND
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND	ND
2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND	ND
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	1	mg/kg	0.200	ND	ND
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	1	mg/kg	0.200	ND	ND
1-Hexanesulfonamide,	68555-75-9	1	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A13+A18	A48+A51
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)						
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl](EtFHxSAA), its salts [^]	68957-32-4	1	mg/kg	0.010	ND	ND
Sum of PFHxS-related compounds	-	1	mg/kg	-	ND	ND
Conclusion					Pass	Pass

Notes:

- (1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending to Regulation (EU) 2019/1021 Annex I as regard the listing of perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Official Journal of the EU, August 8, 2023.

Substance	Scope	Specific exemption on intermediate use or other specification
PFHxS and its salts	Substances, mixtures or articles	≤ 0.025 mg/kg
PFHxS-related compounds	Substances, mixtures or articles	≤ 1 mg/kg (individual or sum of all)
PFHxS, its salts and PFHxS-related compounds	Concentrated firefighting foam	≤ 0.1 mg/kg (to be reviewed within three years after entry into force of this amending regulation with a view to lower the limit)

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds refer to the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink: <https://echa.europa.eu/list-of-substances-proposed-as-pops>

- (3) [^]=Substances refer to its salts/derivative listed in below table

PFHxS, its salts & derivatives	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4
Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
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
Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52-3



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N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC ₄ H ₉)	1187817-57-7
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) (PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄)	1310480-24-0
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) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3
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) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	1310480-28-4
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) (PFHxS-C ₄₂ H ₇₀ O ₃₅)	1329995-45-0
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)(PFHxS-C ₄₈ H ₈₀ O ₄₀)	1329995-69-8
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)	144116-10-9
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)(PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)	1462414-59-0
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₅) ₂)	153443-35-7
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	189274-31-5
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-NH ₂ (CH ₃) ₃)	202189-84-2
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)(PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0
Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4
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
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
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
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)(PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂)	421555-73-9
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with	421555-74-0



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1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I (C ₆ H ₄) ₂ (C ₅ H ₁₁))	
Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7
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)(PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0
Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0
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 ₂ H ₅) ₃)	72033-41-1
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) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3
Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2
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) (PFHxS-S(C ₆ H ₅) ₂ 8 ₁₀ H ₉ O ₂)	911027-68-4
1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1
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) (PFHxS-SC ₂₈ H ₃₁ O ₄)	928049-42-7
Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6
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 (PFHxS-Sulfonium, propenoate polymer)	911027-69-5
Perfluorohexane sulfonate (anion)	108427-53-8
Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C ₄ H ₉) ₄))	2310194-12-6
EtFHxSAA, its salts	
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA)	68957-32-4
Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6
Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4

(4) The conclusion is only applicable to the substance list in the report.

European Regulation POPs (EU) 2019/1021 Annex I—Halogenated compounds



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Guangzhou Branch Technical Laboratory

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Verification Report No.: CANEC25011421001 **Date:** Jun 09, 2025 **Page 21 of 28**
Test Method: SGS In-House method, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A31
Hexachlorobutadiene	87-68-3	Prohibited	mg/kg	5	ND	ND
Pentachlorobenzene	608-93-5	Prohibited	mg/kg	5	ND	ND
Polychlorinated biphenyls (PCBs)	-	50	mg/kg	5	ND	ND
Polychlorinated naphthalenes (PCNs)	-	Prohibited	mg/kg	5	ND	ND
Hexabromodiphenyl	-	Prohibited	mg/kg	5	ND	ND
Tetrabromodiphenyl ether	40088-47-9 and others	-	mg/kg	5	ND	ND
Pentabromodiphenyl ether	32534-81-9 and others	-	mg/kg	5	ND	ND
Hexabromodiphenyl ether	36483-60-0 and others	-	mg/kg	5	ND	ND
Heptabromodiphenyl ether	68928-80-3 and others	-	mg/kg	5	ND	ND
Decabromodiphenyl ether (decaBDE)	1163-19-5	-	mg/kg	5	ND	ND
Sum of PBDEs*	-	500	mg/kg	-	ND	ND
Conclusion					Pass	Pass

Notes:

- (1) Sum of PBDEs* Means Sum of Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether and Decabromodiphenyl ether.
- (2) Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether are ≤ 10 mg/kg for substances, and Sum of tetra-, penta-, hexa-, hepta- and decaBDE ≤ 500 mg/kg for mixtures or articles, this restriction is subject to review and assessment by the European by 16 July 2021.
- (3) Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2011/65/EU are exempted.

The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

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.



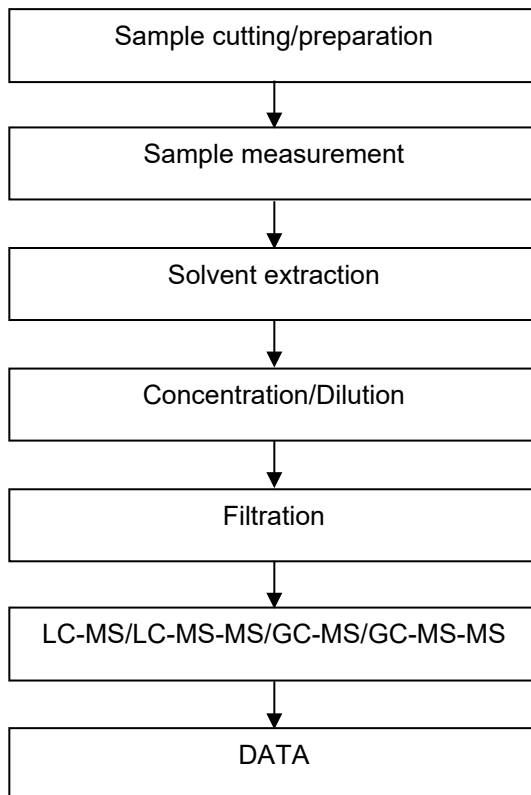
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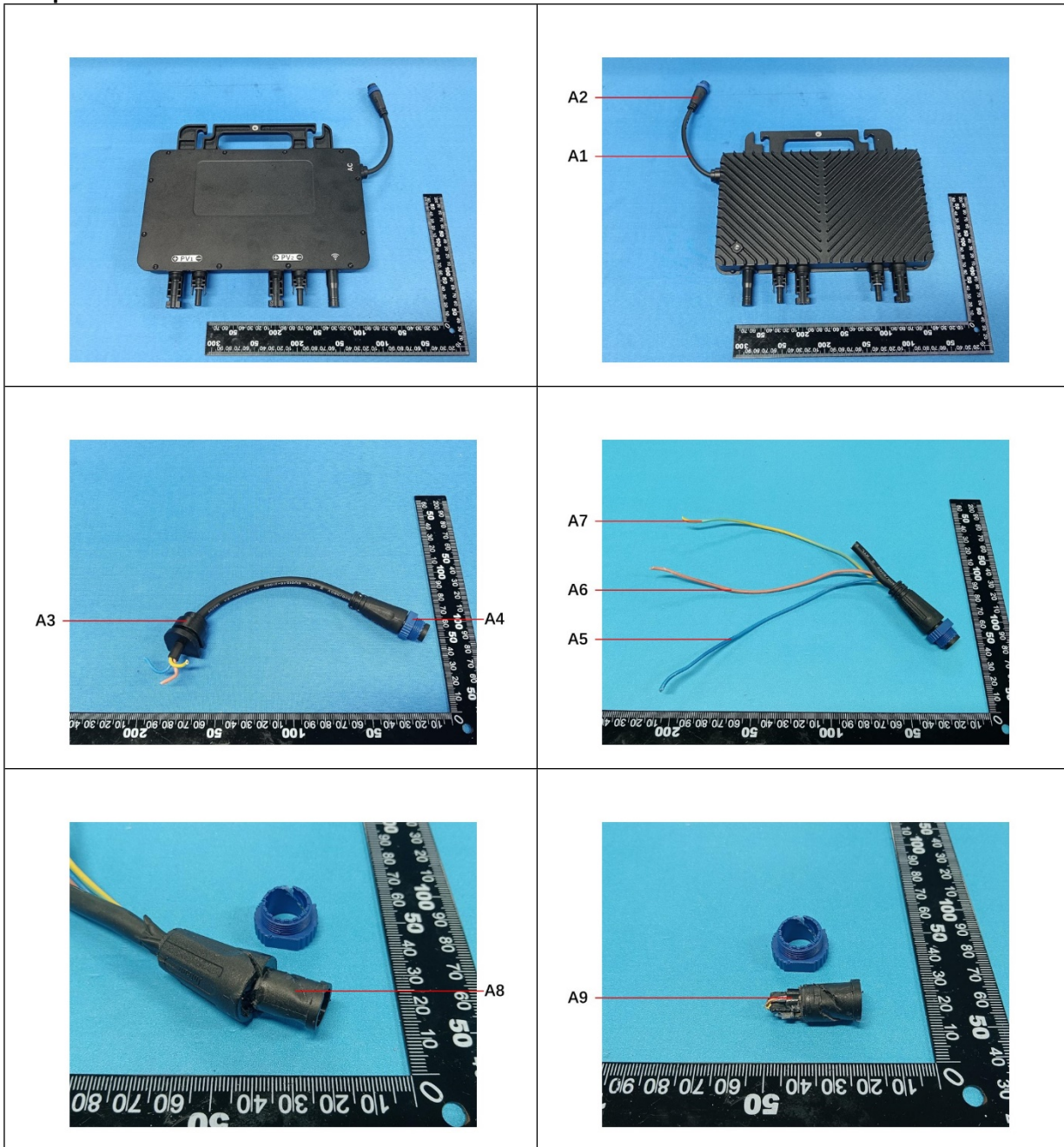
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PFASs/ PFOS/PFOA Testing Flow Chart



Sample Photo:

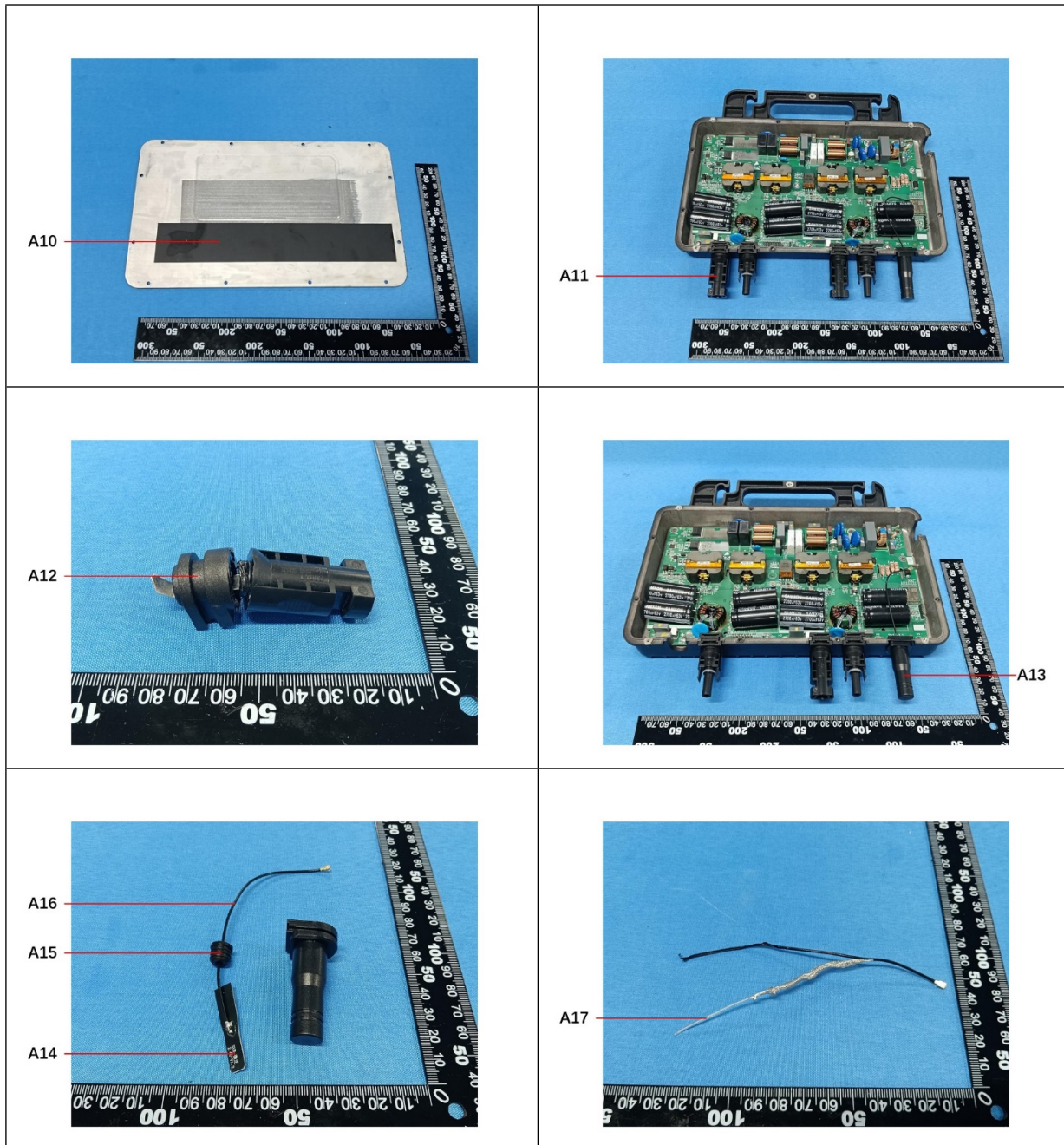


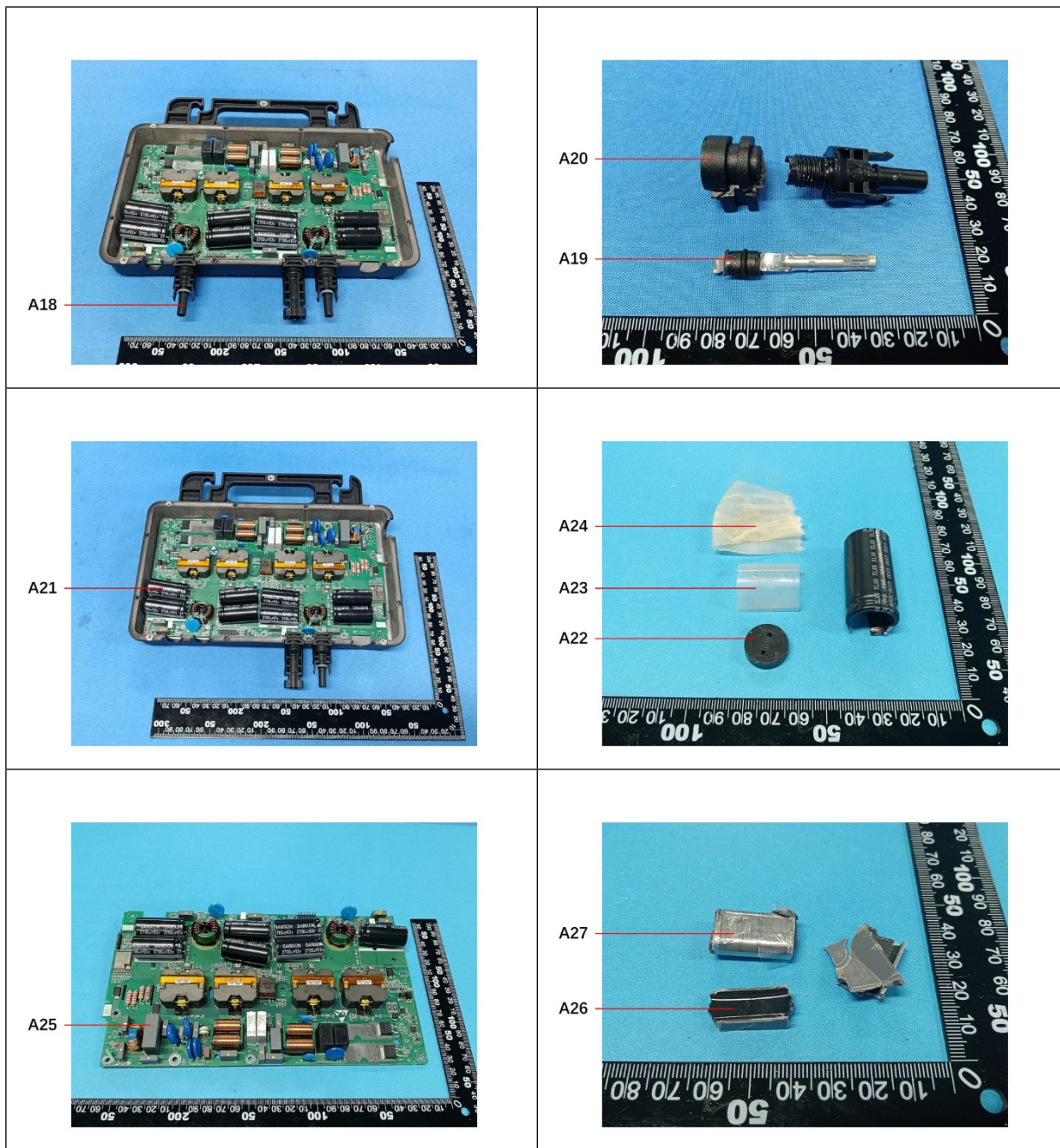
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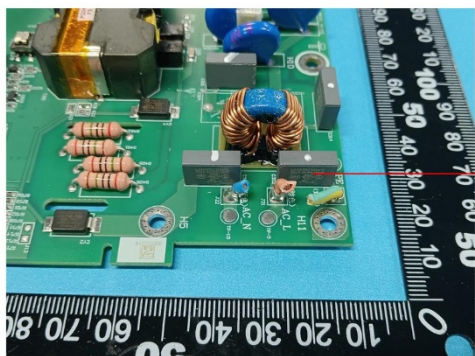
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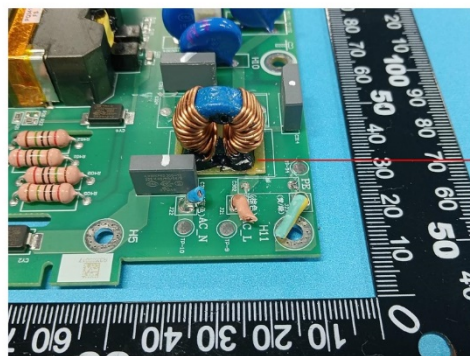
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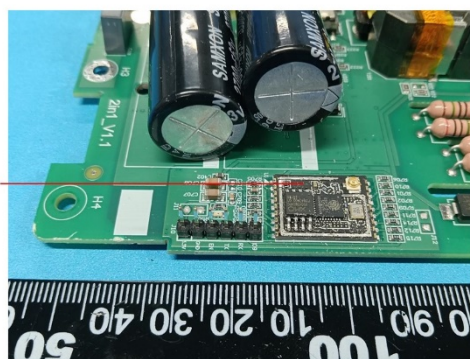
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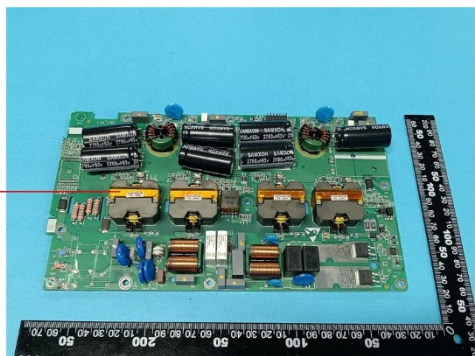
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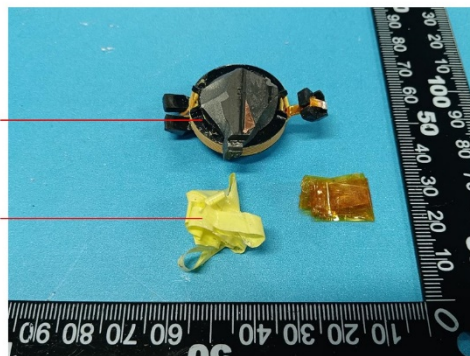
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A31



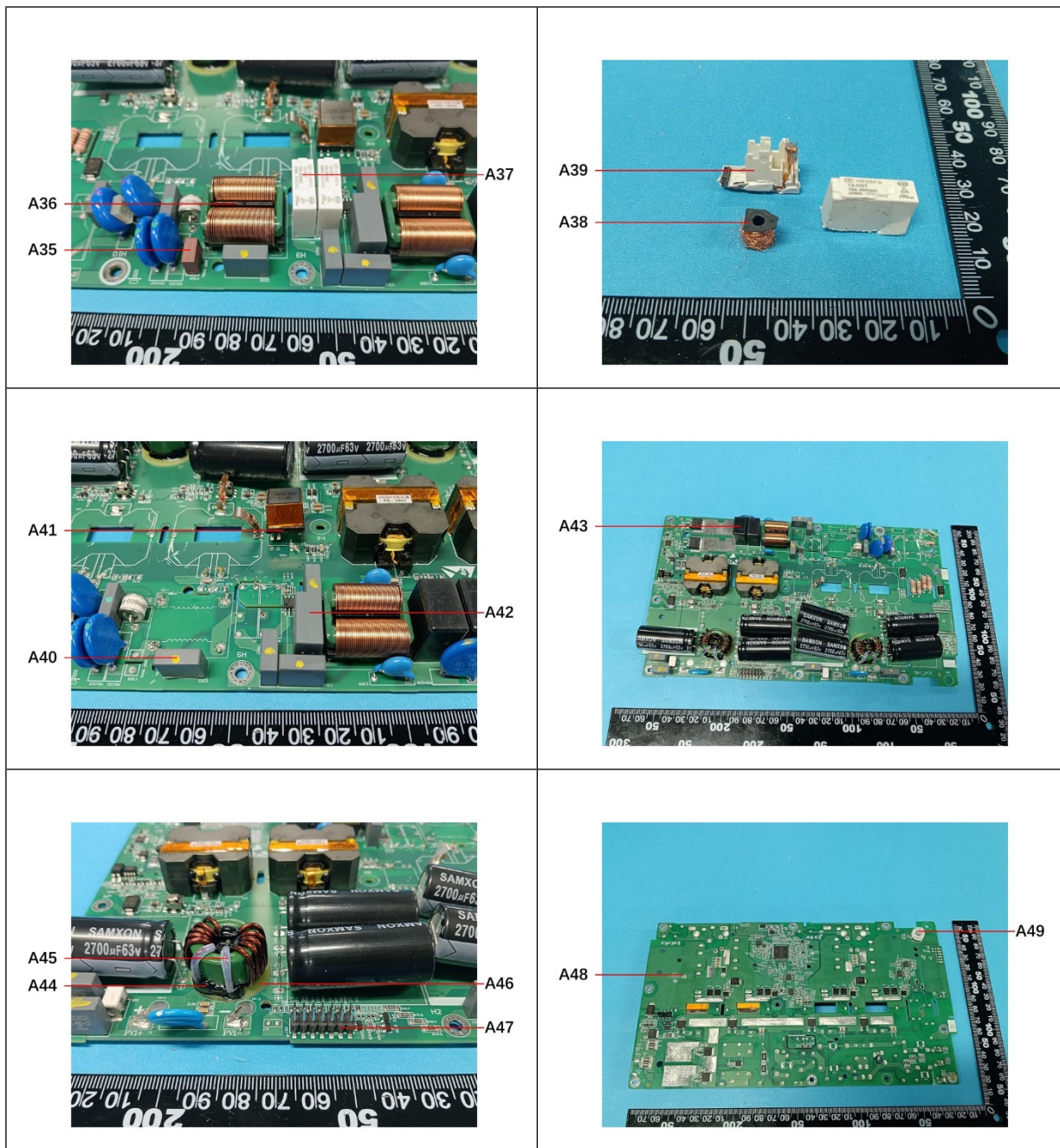
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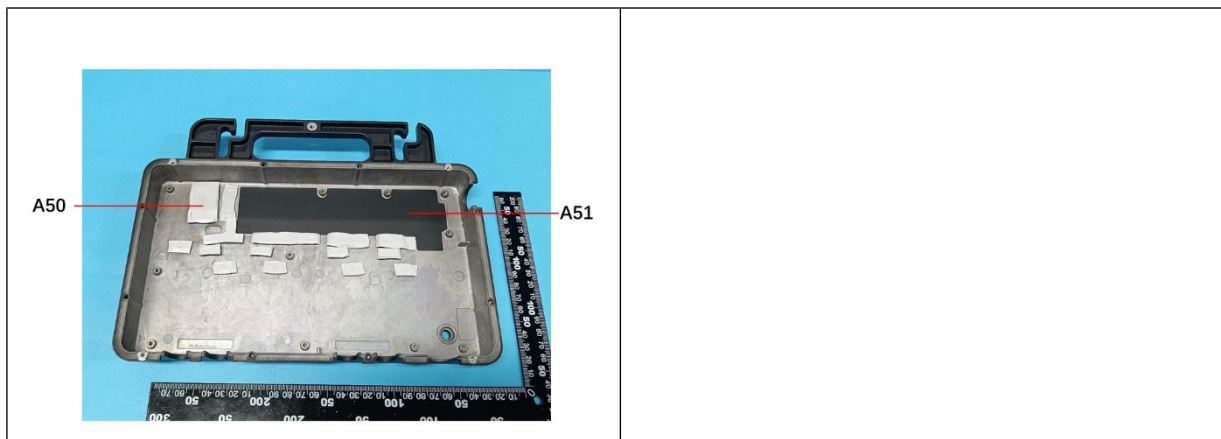


A34

A33







*** End of Report ***



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