

Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:1/8

Applicant: SHENZHEN LEVETOP LTD.

Address: 1010, XINZHOUANG TECHNOLOGY BUILDING, NO. 9 CHANGYE ROAD, LIULIAN COMMUNITY, PINGSHAN STREET, PINGSHAN DISTRICT, SHENZHEN.

The following merchandise were submitted and identified by the clients as:

Sample Name: Chip

Model No.: LT7680A-R,LT7680B-R,LT7680+,LT7681,LT7683,LT7686,LT7381,LT268A,LT32U02,LT32A01,LT7688,LT7689,LT32U03B,LT268C,LT776,LT268D,LT269,LT268B,LT32U03A,LT3688,LT32U03C,LT168A,LT168B,LT1604M

The following information were confirmed by the laboratory:

Testing Period: From July 12, 2024 to July 17, 2024

Test Results: Please refer to next page(s)

Summary of test results

Test Requested	Conclusion
1 Perfluoroalkyl and Polyfluoroalkyl substances (PFAS) Content in submitted sample by client's request	DATA

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:


Manager

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Report No.: NB2024078537

Date: July 17, 2024

Page:2/8

Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I001	Black Chip	--

1. Perfluoroalkyl and Polyfluoroalkyl substances (PFAS) Content

Test Method: In house method,analyzed by LC-MS-MS&GC-MS.

No.	Analyte		CAS No.	MDL (mg/kg)	Client's Requirement (mg/kg)	Result (mg/kg)
						Test Item(s)
						I001
1	Perfluorooctane sulfonates	PFOS	1763-23-1	0.01	--	N.D.
2	Potassium Perfluorooctanesulfonate*	PFOS-K	2795-39-3	0.01	--	N.D.
3	Perfluorooctanesulfonic acid, lithium salt *	PFOS-Li	29457-72-5	0.01	--	N.D.
4	Perfluorooctane Sulfonate*	PFOS-Na	4021-47-0	0.01	--	N.D.
5	Magnesium bis (perfluorooctane-1-sulfonic acid)*	POSF-Mg	91036-71-4	0.01	--	N.D.
6	Perfluorooctanesulfonic acid, ammonium salt*	PFOS-NH ₄	29081-56-9	0.01	--	N.D.
7	Perfluorooctane sulfonate diethanolamine salt*	PFOS-NH (OH) ₂	70225-14-8	0.01	--	N.D.
8	Perfluorooctanesulfonic acid, tetraethylammonium salt*	PFOS-N (C ₂ H ₅) ₄	56773-42-3	0.01	--	N.D.
9	heptadecafluorooctane-1-sulfonate*	PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂ /PFOS- -DDA	251099-16-8	0.01	--	N.D.
10	Perfluorooctane Sulfonyl fluoride*	POSF	307-35-7	0.01	--	N.D.

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Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:3/8

No.	Analyte	CAS No.	MDL (mg/kg)	Client's Requirement (mg/kg)	Result (mg/kg)	
					Test Item(s)	
					1001	
11	Piperidinium perfluorooctanesulfonate*	PFOS-NH (C ₅ H ₁₁)	71463-74-6	0.01	--	N.D.
12	N-ethylperfluoro-1-octane sulfonamide	N-EtFOSA	4151-50-2	0.01	--	N.D.
13	N-methylperfluoro-1-octane sulfonamide	N-MeFOSA	31506-32-8	0.01	--	N.D.
14	2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol	N-EtFOSE	1691-99-2	0.01	--	N.D.
15	2-(N-methylperfluoro-1-octanesulfonamido) -ethanol	N-MeFOSE	24448-09-7	0.01	--	N.D.
16	Perfluorooctanoic acid	PFOA	335-67-1	0.01	--	N.D.
17	Ammonium pentadecafluorooctanoate *	APFO	3825-26-1	0.01	--	N.D.
18	Sodium perfluorooctanoate*	PFOA-Na	335-95-5	0.01	--	N.D.
19	Potassium perfluorooctanoate*	PFOA-K	2395-00-8	0.1	--	N.D.
20	Lithium perfluorooctanoate*	PFOA-Li	17125-58-5	0.1	--	N.D.
21	Silver perfluorooctanoate*	PFOA-Ag	335-93-3	0.1	--	N.D.
22	Perfluorooctanoyl fluoride*	PFOA-F	335-66-0	0.1	--	N.D.
23	Cesium perfluorooctanoate*	PFOA-Cs	17125-60-9	0.01	--	N.D.
24	Cobalt perfluorooctanoate*	PFOA-Co	35965-01-6	0.1	--	N.D.
25	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+)*	PFOA-Cr	68141-02-6	0.1	--	N.D.
26	Pentadecafluorooctanoic acid--piperazine (2/1)*	PFOA-NH (C ₄ H ₁₀ N)	423-52-9	0.01	--	N.D.
27	N,N,N-Triethylethanaminium perfluorooctanoate*	PFOA-NH (C ₈ H ₁₉)	98241-25-9	0.01	--	N.D.

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Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:4/8

No.	Analyte	CAS No.	MDL (mg/kg)	Client's Requirement (mg/kg)	Result (mg/kg)	
					Test Item(s)	
					1001	
28	Perfluorooctanoyl chloride*	PFOA-Cl	335-64-8	0.01	--	N.D.
29	Perfluorooctanoate N,N,N-Trimethylmethanaminium*	PFOA-NH (C ₄ H ₁₁)	32609-65-7	0.01	--	N.D.
30	Tetrapropylammonium perfluorooctanoate*	PFOA-NH (C ₁₂ H ₂₇)	277749-00-5	0.01	--	N.D.
31	Tetrabutylammonium perfluorooctanesulfonate*	PFOS-N (C ₁₆ H ₃₆)	111873-33-7	0.01	--	N.D.
32	Methyl perfluorooctanoate	Me-PFOA	376-27-2	0.01	--	N.D.
33	Ethyl perfluorooctanoate	Et-PFOA	3108-24-5	0.01	--	N.D.
34	Perfluoro-1-iodooctane	PFOI	507-63-1	0.01	--	N.D.
35	1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTOH	678-39-7	0.01	--	N.D.
36	1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTS	39108-34-4	0.01	--	N.D.
37	1H, 1H,2H,2H-Perfluorodecanesulfonic Acid Sodium*	8:2 FTS-Na	27619-96-1	0.01	--	N.D.
38	8:2 Fluorotelomersulfonate ammonium salt*	8:2 FTS-NH ₄	149724-40-3	0.01	--	N.D.
39	1H,1H,2H,2H-Perfluorodecyl acrylate	8:2 FTA	27905-45-9	0.01	--	N.D.
40	1H,1H,2H,2H-Perfluorodecyl methacrylate	8:2 FTMA	1996-88-9	0.01	--	N.D.
41	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	PFSI	101947-16-4	0.01	--	N.D.
42	1-Iodine-1H,1H,2H,2H-perfluorodecane	8:2 FTI	2043-53-0	0.01	--	N.D.
43	Bis (2-(perfluoroethyl)) phosphoric acid	8:2diPAP	678-41-1	0.01	--	N.D.
44	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate*	8:2diPAP-Na	114519-85-6	0.01	--	N.D.

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Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:5/8

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					Test Item(s)	
					1001	
45	Ammoniumbis(1H,1H,2H,2H-perfluorodecyl)phosphate*	8:2diPAP-NH ₄	93776-20-6	0.01	--	N.D.
46	Perfluorooctane Sulfonamide	PFOSA	754-91-6	0.01	--	N.D.
47	Perfluorooctanesulfonamide lithium salt (1:1)*	PFOSA-Li	76752-79-9	0.01	--	N.D.
48	Perfluorohexane acid	PFHxA	307-24-4	0.01	--	N.D.
49	Sodium perfluorocaproate	PFHxA-Na	2923-26-4	0.01	--	N.D.
50	Potassium perfluorocaproate*	PFHxA-K	3109-94-2	0.01	--	N.D.
51	Lithium perfluorohexanoate*	PFHxA-Li	90430-61-8	0.01	--	N.D.
52	Silver perfluorohexanoate*	PFHxA-Ag	336-02-7	0.01	--	N.D.
53	Ammonium Undecafluorohexanoate*	APFHx/PFHxA-NH ₄	21615-47-4	0.01	--	N.D.
54	Perfluoroheptane Acid*	PFHpA	375-85-9	0.01	--	N.D.
55	Sodium perfluoroheptanoate	PFHpA-Na	20109-59-5	0.1	--	N.D.
56	Potassium perfluoroheptanoate*	PFHpA-K	21049-36-5	0.1	--	N.D.
57	Lithium perfluoroheptanoate*	PFHpA-Li	60871-90-1	0.1	--	N.D.
58	Silver;2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptanoate*	PFHpA-Ag	424-05-5	0.1	--	N.D.
59	Cesium 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptanoate*	PFHpA-Cs	171198-24-6	0.1	--	N.D.
60	Ammonium perfluoroheptanoate*	PFHpA-NH ₄	6130-43-4	0.01	--	N.D.
61	Perfluorobutane Sulfonate*	PFBS	375-73-5	0.01	--	N.D.

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Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:6/8

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					Test Item(s)	
					1001	
62	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1)	PFBS-Na	60453-92-1	0.01	--	N.D.
63	Perfluorobutanesulfonate K-salt*	PFBS-K	29420-49-3	0.01	--	N.D.
64	Lithium perfluorobutylsulfonate*	PFBS-Li	131651-65-5	0.01	--	N.D.
65	Magnesium perfluorobutanesulfonate*	PFBS-Mg	507453-86-3	0.01	--	N.D.
66	Nonafluorobutane sulfonic acid hydrate*	PFBS-H2O	59933-66-3	0.01	--	N.D.
67	Perfluorobutylsulfonyl fluoride*	PFBS-F	375-72-4	0.01	--	N.D.
68	Perfluorobutyl sulfonyl chloride	PFBS-Cl	2991-84-6	0.01	--	N.D.
69	N, N, N, - triethylethylamine 1,1,2,2,3,3,4,4-monofluorobutane-1-sulfonate*	PFBS-N(C2H5)4	25628-08-4	0.1	--	N.D.
70	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate*	PFBS-NH4	68259-10-9	0.01	--	N.D.
71	bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate*	PFBS-I(C6H4)2(C4H9)2	194999-85-4	0.01	--	N.D.
72	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate*	PFBS-SC18H23O	209482-18-8	0.1	--	N.D.
73	Morpholinium perfluorobutanesulfonate*	PFBS-NC4H9O	503155-89-3	0.1	--	N.D.
74	Triphenylsulfonium nonaflate*	PFBS-S(C6H5)3	144317-44-2	0.01	--	N.D.

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Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:7/8

No.	Analyte	CAS No.	MDL (mg/kg)	Client's Requirement (mg/kg)	Result (mg/kg)	
					Test Item(s)	
					1001	
75	Dimethyl (phenyl) sulfonium perfluorobutanesulfonate*	PFBS-S(CH ₃) ₂ C ₆ H ₅	220133-51-7	0.01	--	N.D.
76	Tetrabutylphosphorus perfluorobutylsulfonate*	PFBS-P(C ₄ H ₉) ₄	220689-12-3	0.01	--	N.D.
77	Perfluorohexane Sulfonate*	PFHxS	355-46-4	0.01	--	N.D.
78	Perfluorohexanesulfonate Na-salt	PFHxS-Na	82382-12-5	0.01	--	N.D.
79	Perfluorohexanesulfonate K-salt*	PFHxS-K	3871-99-6	0.1	--	N.D.
80	Lithium perfluorohexanesulfonate*	PFHxS-Li	55120-77-9	0.1	--	N.D.
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	0.01	--	N.D.
82	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	--	N.D.
83	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	--	N.D.
Conclusion					--	DATA

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit
 "*" means Result(s) shown of the substance(s) is/are converted from the result(s) of certain compound(s).

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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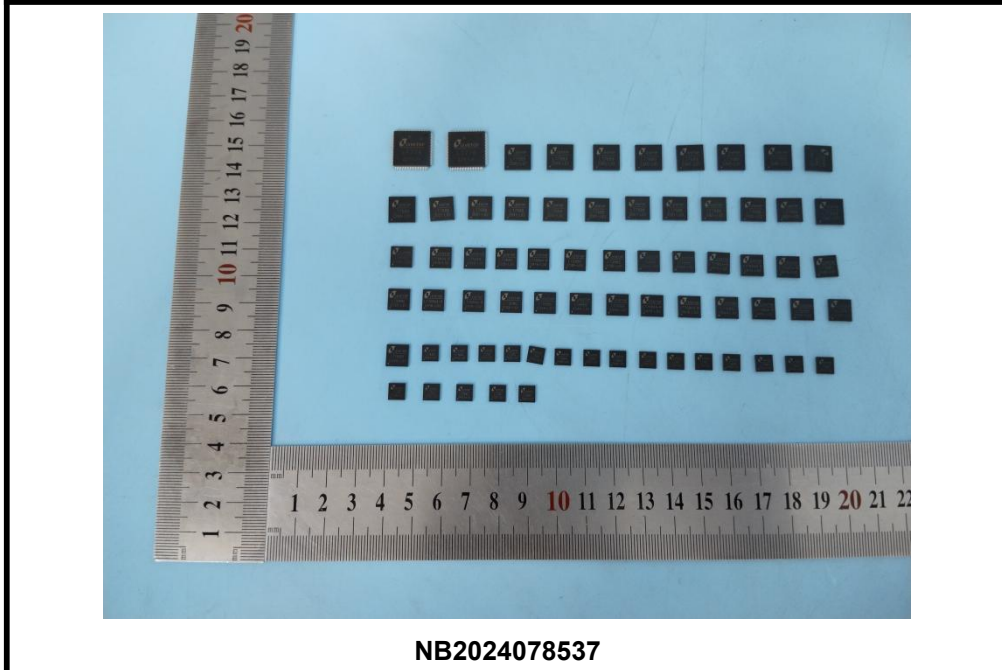
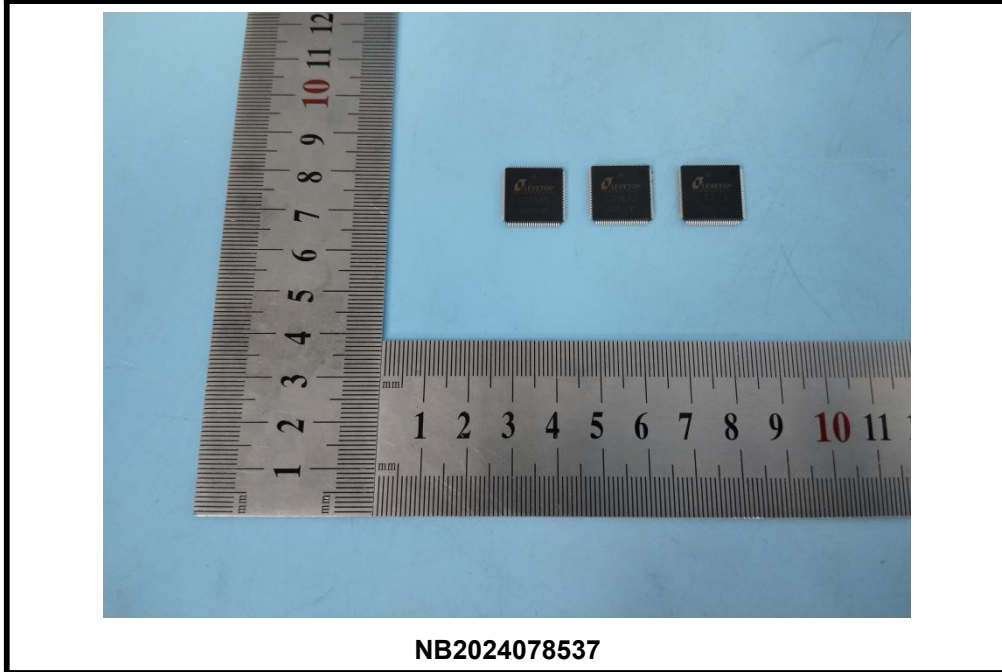
Test Report

Report No.: NB2024078537

Date: July 17, 2024

Page:8/8

Samples photograph



NBTS authenticate the photograph on original report only

End of Report

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