

Test Report

No.: NGBEC26001017603

Date: Feb 13, 2026

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Client Name: NINGBO GANGBO ELECTRONIC CO., LTD.

Client Address: NO.999, ZHENNAN ROAD, DONGCUN VILLAGE, DONGWU TOWN, YINZHOU DISTRICT, NINGBO CITY, ZHEJIANG PROVINCE

Sample Name: Plating Ag C19400 material LEAD FRAME/CLIP/Jumper

Client Ref. Information: C194 (A194/CDA C19400)

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

SGS Job No.: NBP26-001078

Sample Receiving Date: Feb 05, 2026

Testing Period: Feb 05, 2026 ~ Feb 13, 2026

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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Lead	See Results
Element(s)	See Results
Halogen	See Results
Phthalates	See Results
Red Phosphorus	See Results
European Regulation POPs (EU) 2024/2570 amending Regulation (EU) 2019/1021 Annex I-Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	Pass

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

Sissie Peng
Approved Signatory

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Test Requirement	Conclusion
European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB26-0010176-0001.C001	Copper metal frame
SN2	A2	NGB26-0010176-0001.C002	Copper silvery metal frame
SN3	A3	NGB26-0010176-0001.C003	Silvery metal

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A3
Lead (Pb)	1000	mg/kg	2	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND	ND
Polybromobiphenyl (PBB)*	1000	mg/kg	-	ND	ND
Monobrominated biphenyl (MonoBB)*	-	mg/kg	5	ND	ND
Dibrominated biphenyl (DiBB)*	-	mg/kg	5	ND	ND
Tribrominated biphenyl (TriBB)*	-	mg/kg	5	ND	ND
Tetrabrominated biphenyl (TetraBB)*	-	mg/kg	5	ND	ND
Pentabrominated biphenyl (PentaBB)*	-	mg/kg	5	ND	ND
Hexabrominated biphenyl (HexaBB)*	-	mg/kg	5	ND	ND
Heptabrominated biphenyl (HeptaBB)*	-	mg/kg	5	ND	ND
Octabrominated biphenyl (OctaBB)*	-	mg/kg	5	ND	ND
Nonabrominated biphenyl (NonaBB)*	-	mg/kg	5	ND	ND
Decabrominated biphenyl (DecaBB)*	-	mg/kg	5	ND	ND
Polybromodiphenyl ether(PBDE)*	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether (MonoBDE)*	-	mg/kg	5	ND	ND
Dibrominated diphenyl ether (DiBDE)*	-	mg/kg	5	ND	ND
Tribrominated diphenyl ether (TriBDE)*	-	mg/kg	5	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1	A3
Tetrabrominated diphenyl ether (TetraBDE)*	-	mg/kg	5	ND	ND
Pentabrominated diphenyl ether (PentaBDE)*	-	mg/kg	5	ND	ND
Hexabrominated diphenyl ether (HexaBDE)*	-	mg/kg	5	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)*	-	mg/kg	5	ND	ND
Octabrominated diphenyl ether (OctaBDE)*	-	mg/kg	5	ND	ND
Nonabrominated diphenyl ether (NonaBDE)*	-	mg/kg	5	ND	ND
Decabrominated diphenyl ether (DecaBDE)*	-	mg/kg	5	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)*	1000	mg/kg	50	ND	ND
Butyl benzyl phthalate (BBP)*	1000	mg/kg	50	ND	ND
Dibutyl phthalate (DBP)*	1000	mg/kg	50	ND	ND
Diisobutyl phthalate (DIBP)*	1000	mg/kg	50	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) * = The test is not accredited by CNAS.

AfPS GS 2019:01 PAK-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.	Unit(s)	MDL	A1	A3
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1	A3
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND	ND
Sum of 15 PAHs	-	mg/kg	-	ND	ND

Notes:

(1) The test is not accredited by CNAS.

(2) AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1



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Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2	< 10		
Sum of 15 PAHs	< 1	< 5	< 10	< 20	< 50

Notes:

- ^a A "Child" is legally defined as a person before reaching the age of 14 years.
- ^b Use by children includes both active and passive contact by children.
- ^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
- ^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Lead

Test Method: With reference to IEC 62321-5:2013, analysis was performed by ICP-OES/AAS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A1	A3
Arsenic(As)	mg/kg	10	ND	ND
Beryllium(Be)	mg/kg	5	ND	ND
Antimony(Sb)	mg/kg	10	ND	ND



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Notes:

(1) The test is not accredited by CNAS.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1	A3
Fluorine(F)	mg/kg	20	ND	ND
Chlorine(Cl)	mg/kg	50	ND	ND
Bromine(Br)	mg/kg	50	ND	ND
Iodine(I)	mg/kg	50	ND	ND

Notes:

(1) The test is not accredited by CNAS.

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1	A3
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND	ND
Dipentyl Phthalates (DPP)	131-18-0	%	0.003	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	%	0.003	ND	ND
Diisopentyl Phthalate(DIPP)	605-50-5	%	0.003	ND	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	%	0.003	ND	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	%	0.01	ND	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	%	0.01	ND	ND

Notes:

(1) The test is not accredited by CNAS.

Red Phosphorus

Test Method: With reference to SGS In house method, analysis was performed by ICP-OES and Pyrolysis-GC-MS.



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Test Item(s)	CAS No.	Unit(s)	MDL	A1	A3
Red Phosphorus	7723-14-0	mg/kg	500	ND	ND

Notes:

- (1) The testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.
- (2) The test was subcontracted to SGS Shanghai chemical lab.
- (3) The test is not accredited by CNAS.

European Regulation POPs (EU) 2024/2570 amending Regulation (EU) 2019/1021 Annex I - Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)

Test Method: SGS In-House method, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A3
Hexabromocyclododecane (HBCDD) and its main diastereoisomers (α -HBCDD, β -HBCDD, γ -HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	20	ND	ND
Conclusion					Pass	Pass

Notes:

- (1) The exemptions laid down shall be reviewed and assessed by the Commission by 1 January 2026.
- (2) The test is not accredited by CNAS.

European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds

Test Method: Modified EN 17681-1:2025, 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	A3
PFOS, its salts						
Perfluorooctane sulfonic acid (PFOS), its salts [^]	1763-23-1	0.025	mg/kg	0.010	ND	ND
PFOS-related compounds						
N-ethylperfluoro-1-octanesulfonamide (N-EtFOA)	4151-50-2	-	mg/kg	0.010	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOA)	31506-32-8	-	mg/kg	0.010	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOE)	1691-99-2	-	mg/kg	0.010	ND	ND



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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
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	-	mg/kg	0.200	ND	ND
Sum of PFOS-related compounds	-	1	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 acrylate (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	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-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts [^]	678-41-1	1	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A3
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 (8:2 FTSiCl ₃)/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃)	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 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND	ND
8:8 Perfluorophosphinic 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
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts [^]	120226-60-0	1	mg/kg	0.100	ND	ND
10:2 Fluorotelomerphosphatediester (10:2 diPAP), its salts [^]	1895-26-7	1	mg/kg	0.100	ND	ND
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	1	mg/kg	0.010	ND	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	1	mg/kg	0.010	ND	ND
10:2 Fluorotelomerphosphatemonoes ter (10:2 monoPAP), its salts [^]	57678-05-4	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	1	mg/kg	0.100	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	1	mg/kg	0.100	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A3
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	1	mg/kg	0.100	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	1	mg/kg	0.100	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	1	mg/kg	0.100	ND	ND
Sum of PFOA-related compounds	-	1	mg/kg	-	ND	ND
Conclusion					Pass	Pass

Notes:

- (1) According to Regulation (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I, the concentrations of PFOS or any of its salts equal to or below 0,025 mg/kg (0,000025 % by weight) and all PFOS-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or in articles. Date of applicability: From 3 December 2025.
- (2) ^=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
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-heptadecafluorooctane-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(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-NH(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 heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-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



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N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-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 heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
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-((heptadecafluorooctyl)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-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
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



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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
Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8
Perfluorooctanoyl Bromide (PFOA-Br)	222037-87-8
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
2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5
8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (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
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



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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
10:2 FTS, its salts	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0
1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3
2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6
10:2 diPAP, its salts	
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7
Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2
10:2 monoPAP, its salts	
10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4
10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-Henicosfluorododecyl dihydrogen phosphate cyclohexylamine	2514858-66-1

- (3) The conclusion is only applicable to the substance list in the report.
- (4) The test is not accredited by CNAS.

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.



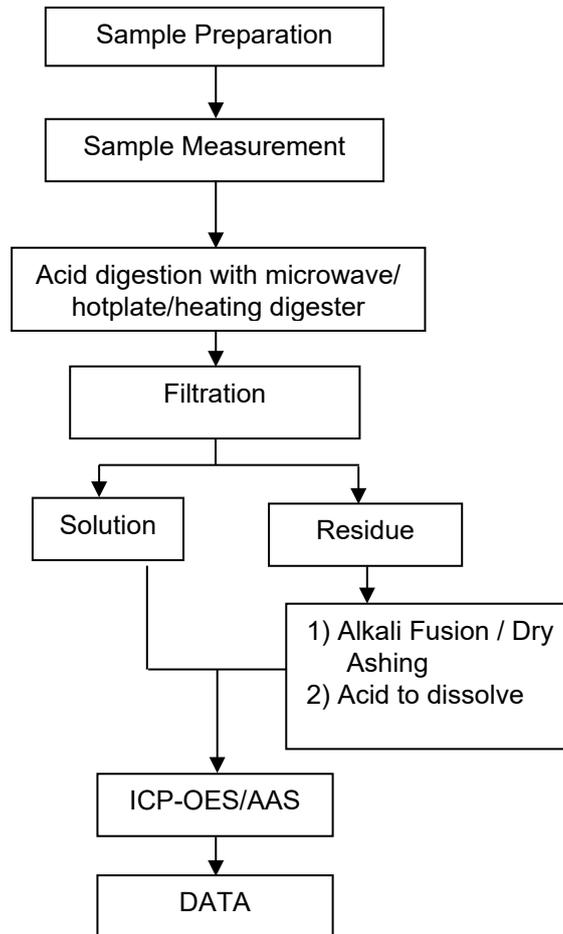
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Elements Testing Flow Chart

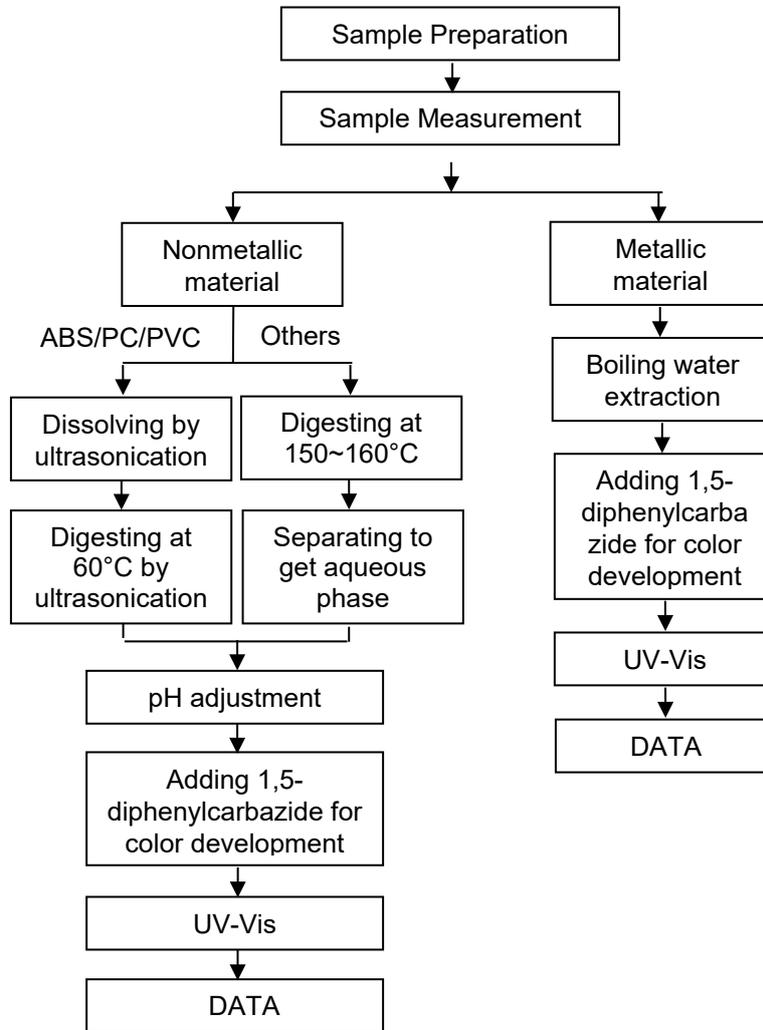
These samples were dissolved totally by pre-conditioning method according to below flow chart.



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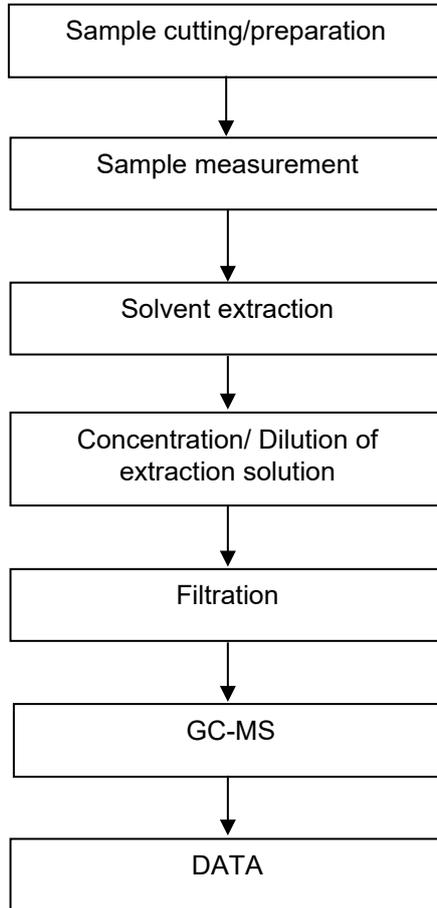
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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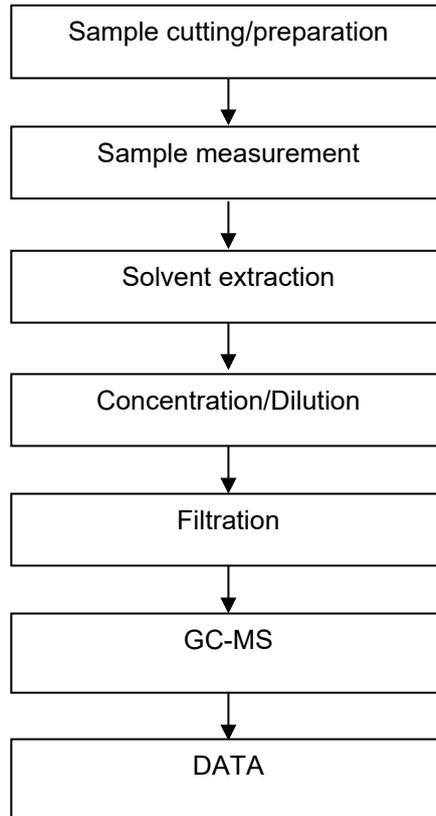
PBB(s)/PBDE(s) Testing Flow Chart



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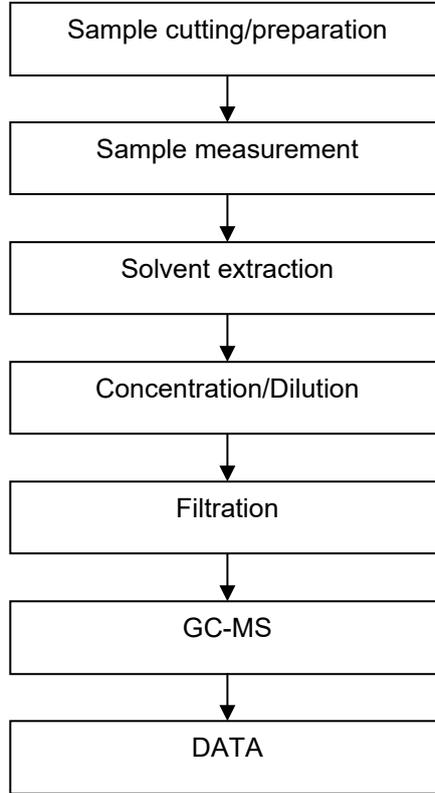
Phthalates Testing Flow Chart



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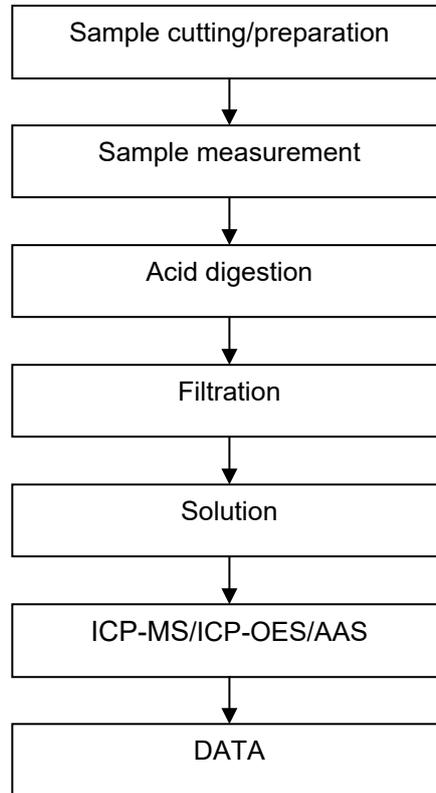
PAHs Testing Flow Chart



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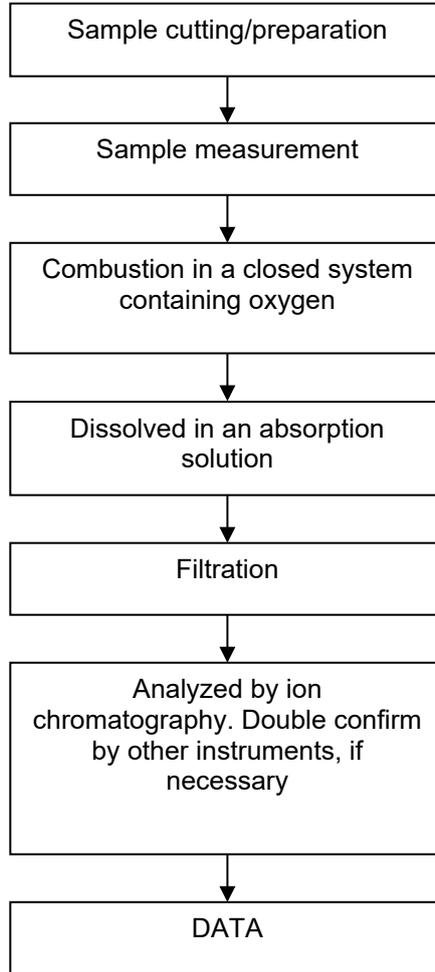
Elements Testing Flow Chart



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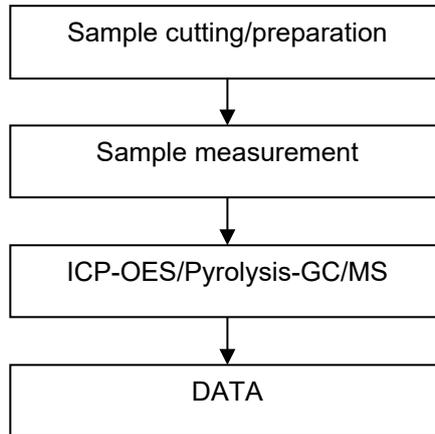
Halogen Testing Flow Chart



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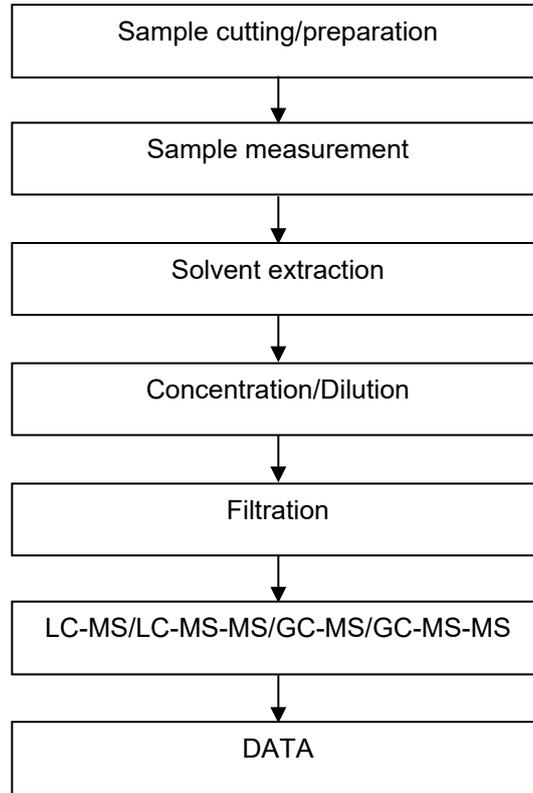
Red Phosphorus Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



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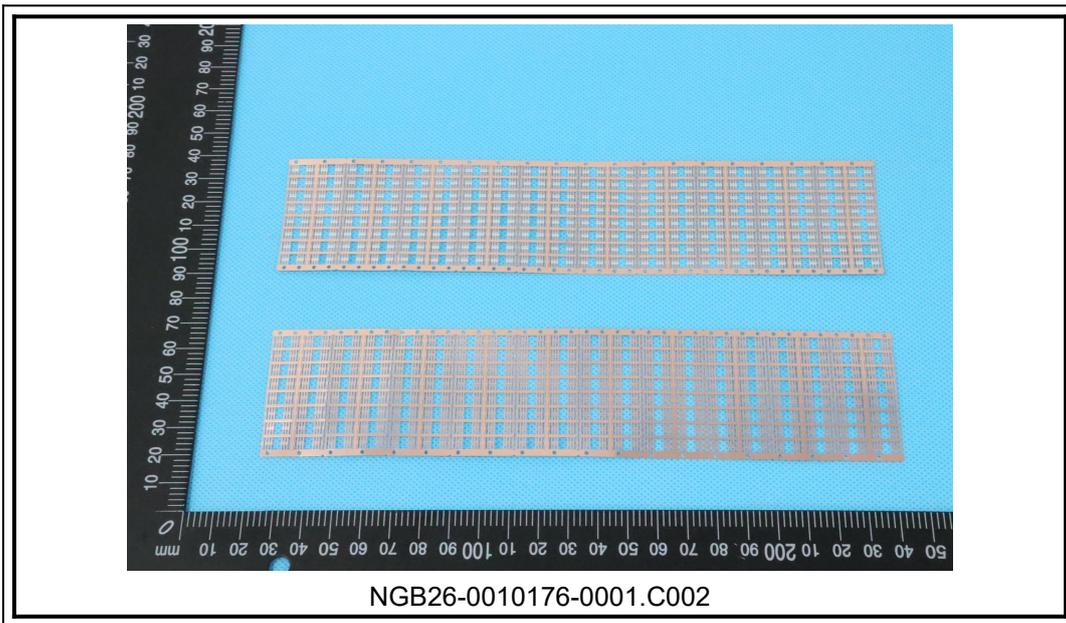
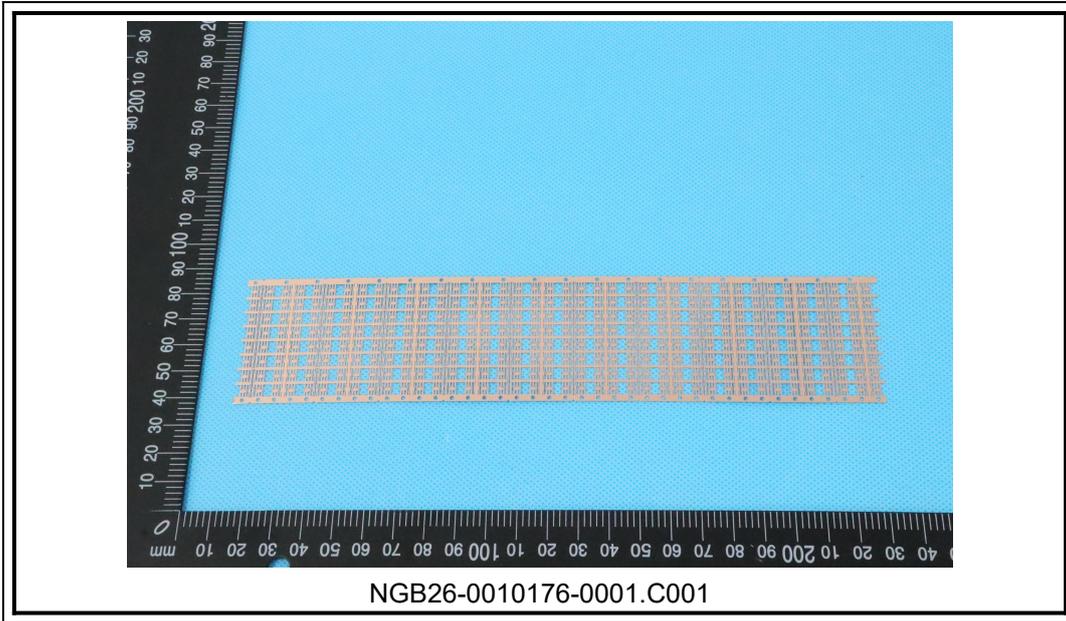
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