

No.: EKR23601079 Date: 20-Jun-2023

NEXPERIA B.V.

JONKERBOSPLEIN 52 6534 AB NIJMEGEN (THE NETHERLANDS)

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : Annette Bunk

Sample Name : NEXPERIA WAFERS 2023 Style/Item No. : HAMBURG DHAM 150mm

Order No. : 8210155228

Sample Receiving Date : 12-Jun-2023

Testing Period : 12-Jun-2023 to 20-Jun-2023

**Test Requested** : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) As requested by the client, the risk of specific PFAS in the selected sample is

evaluated. The total amounts of evaluated PFAS are 185 items, concluding 80 tested

items and 105 listed items (see PFAS Remark).

(3) Please refer to next pages for the other item(s).

**Test Results**: Please refer to following pages.

**Conclusion** : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium,

Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Ray Chang Ph.D./Department Manager
Signed for and on behalf
SGS TAIWAN LTD.
Chemical Laboratory-Kaohsiung



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PIN CODE: 3A98E274



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#### **Test Part Description**

No.1 : WAFER

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Lead (Pb)	analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed by				
	ICP-OES.				
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.	1000
	analysis was performed by UV-VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	ı	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP)		mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)	analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.	=
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	=
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.	=
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
PFAS					
Perfluorobutane acid and its salts (PFBA	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	=
and its salts) (CAS No.: 375-22-4 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorobutane sulfonate and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFBS and its salts) (CAS No.: 375-73-5 and its salts)	analysis was performed by LC/MS/MS.				
,	With reference to CENITE 15069, 2010	ma/ka	0.1	n d	
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) (CAS No.:	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
Perfluoropentane acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFPA and its salts) (CAS No.: 2706-90-3 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorohexane acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFHxA and its salts) (CAS No.: 307-24-4 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorohexyl iodide (PFHxI) (CAS No.:	With reference to CEN/TS 15968: 2010,	mg/kg	1	n.d.	-
355-43-1)	analysis was performed by GC/MS.				
Perfluorohexyl ethylene (PFHxE) (CAS	With reference to CEN/TS 15968: 2010,	mg/kg	1	n.d.	-
No.: 25291-17-2)	analysis was performed by GC/MS.				
1H,1H,2H,2H-Perfluorooctyl iodide (6_2FOI) (CAS No.: 2043-57-4)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
1H,1H,2H,2H-Perfluoro-1-octanol (6:2	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
FTOH) (CAS No.: 647-42-7)	analysis was performed by GC/MS.				
1H,1H,2H,2H-Perfluorooctyl acrylate	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
(6:2 FTA) (CAS No.: 17527-29-6)	analysis was performed by GC/MS.				
1H,1H,2H,2H-perfluorooctyl	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
methacrylate (6:2 FTMAC) (CAS No.:	analysis was performed by GC/MS.				
2144-53-8)					
1H,1H,2H,2H-Perfluorooctanesulphonic	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
acid (H4PFOS 6:2) (CAS No.: 27619-97-	analysis was performed by LC/MS/MS.				
2)					
Perfluorohexane sulfonate and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFHxS and its salts) (CAS No.: 355-46-4	analysis was performed by LC/MS/MS.				
and its salts)					
N-Methylperfluoro-1-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
hexanesulfonamide (N-Me-FHxSA) (CAS	analysis was performed by LC/MS/MS.				
No.: 68259-15-4)					
Perfluorohexane sulfonamide (PFHxSA)	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(CAS No.: 41997-13-1)	analysis was performed by LC/MS/MS.				
N-[3-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(dimethylamino)propyl]tridecafluorohex	analysis was performed by LC/MS/MS.				
anesulphonamide (N-AP-FHxSA) (CAS					
No.: 50598-28-2)					
2-	With reference to CEN/TS 15968: 2010,	mg/kg	0.5	n.d.	_
[Methyl[(tridecafluorohexyl)sulphonyl]a	analysis was performed by GC/MS.				
mino]ethyl acrylate (N-MeFHSEA) (CAS					
No.: 67584-57-0)					
Perfluoroheptane acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFHpA and its salts) (CAS No.: 375-85-9	analysis was performed by LC/MS/MS.				
and its salts)					
7H-Dodecanefluoroheptane acid	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(HPFHpA) (CAS No.: 1546-95-8)	analysis was performed by LC/MS/MS.				
Perfluoroheptane sulfonate and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFHpS and its salts) (CAS No.: 375-92-8	analysis was performed by LC/MS/MS.				
and its salts)					



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Perfluorooctane sulfonates and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1	analysis was performed by LC/MS/MS.				
and its salts)					
N-ethylperfluoro-1-octanesulfonamide	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(EtFOSA) (CAS No.: 4151-50-2)	analysis was performed by LC/MS/MS.				
N-Methyl-Perfluoroctanesulfonamide	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(N-Me-FOSA) (CAS No.: 31506-32-8)	analysis was performed by LC/MS/MS.				
N-Ethyl-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
Perfluoroctanesulfonamidoethanol (N-	analysis was performed by LC/MS/MS.				
Et-FOSE alcohol) (CAS No.: 1691-99-2)					
N-Methyl-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
Perfluoroctanesulfonamidoethanol (N-	analysis was performed by LC/MS/MS.				
Me-FOSE alcohol) (CAS No.: 24448-09-					
7)					
Perfluoroctanesulfonamide (PFOSA)	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	_
(CAS No.: 754-91-6)	analysis was performed by LC/MS/MS.				
Perfluorooctanoic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	_
(PFOA and its salts) (CAS No.: 335-67-1	analysis was performed by LC/MS/MS.				
and its salts)					
1H,1H,2H,2H-Perfluorodecanesulfonic	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
acid (8:2 FTS) (CAS No.: 39108-34-4)	analysis was performed by LC/MS/MS.				
Methyl perfluorooctanoate (Me-PFOA)	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
(CAS No.: 376-27-2)	analysis was performed by GC/MS.				
Ethyl perfluorooctanoate (Et-PFOA)	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
(CAS No.: 3108-24-5)	analysis was performed by GC/MS.				
1H,1H,2H,2H-Perfluoro-1-decanol (8:2	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
FTOH) (CAS No.: 678-39-7)	analysis was performed by GC/MS.				
1H,1H,2H,2H-Perfluorodecyl acrylate	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	
(8:2 FTA) (CAS No.: 27905-45-9)	analysis was performed by GC/MS.	J. J.			
1H,1H,2H,2H-Perfluorodecyl	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	
methacrylate (8:2 FTMA) (CAS No.:	analysis was performed by GC/MS.				
1996-88-9)					
Perfluoro-1-iodooctane (PFOI) (CAS	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
No.: 507-63-1)	analysis was performed by GC/MS.				



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Perfluorononan-1-oic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFNA and its salts) (CAS No.: 375-95-1	analysis was performed by LC/MS/MS.				
and its salts)					
Perfluoro-3,7-dimethyloctanoic acid	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PF-3,7-DMOA) (CAS No.: 172155-07-6)	analysis was performed by LC/MS/MS.				
Perfluorodecane acid and its salts (PFDA		mg/kg	0.01	n.d.	-
and its salts) (CAS No.: 335-76-2 and its salts)	analysis was performed by LC/MS/MS.				
Perfluoroundecanoic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFUnDA and its salts) (CAS No.: 2058-94-8 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorododecanoic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFDoDA and its salts) (CAS No.: 307- 55-1 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorodecane sulfonate and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFDS and its salts) (CAS No.: 126105- 34-8, 335-77-3 and its salts)	analysis was performed by LC/MS/MS.				
Pentacosafluorotridecanoic acid and its	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
salts (PFTrDA and its salts) (CAS No.: 72629-94-8 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorotetradecanoic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFTDA and its salts) (CAS No.: 376-06-7 and its salts)	analysis was performed by LC/MS/MS.				
Perfluoropentadecanoic acid and its	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
salts (PFPeDA and its salts, C15) (CAS	analysis was performed by LC/MS/MS.				
No.: 141074-63-7 and its salts)					
Perfluorohexadecanoic acid and its salts	·	mg/kg	0.01	n.d.	-
(PFHxDA and its salts, C16) (CAS No.: 67905-19-5 and its salts)	analysis was performed by LC/MS/MS.				
Perfluorooctadecanoic acid and its salts	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFODA and its salts, C18) (CAS No.: 16517-11-6 and its salts)	analysis was performed by LC/MS/MS.				



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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No.: 68259-12-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluoroundecane sulfonic acid and its salts (PFUnS and its salts) (CAS No.: 749786-16-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No.: 79780-39-5 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No.: 791563-89-8 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) (CAS No.: 17741-60-5)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (CAS No.: 865-86-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) (CAS No.: 2144-54-9)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) (CAS No.: 2043-54-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) (CAS No.: 120226-60-0)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) (CAS No.: 30046-31-2)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	=
1H,1H,2H,2H-Perfluorotetradecan-1-ol (12:2 FTOH) (CAS No.: 39239-77-5)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) (CAS No.: 21652-58-4)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	-
Perfluoro-3-methoxypropanoic acid (PFMPA) (CAS No.: 377-73-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluoro-4-methoxybutanoic acid (PFMBA) (CAS No.: 863090-89-5)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-



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Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) (CAS No.: 151772-58-6) Asalysis was performed by LC/MS/MS. As-Dioxa-3H-perfluorononanoic acid (ADONA) (CAS No.: 919005-14-4) As-Dioxa-3H-perfluorononanoic acid (ADONA) (CAS No.: 919005-14-4) As-Dioxa-3H-perfluorodecane acid (H2PFDA) (CAS No.: 27854-31-5; 882489-14-7) Asalysis was performed by LC/MS/MS. Assalts (AHPFUNA and its salts) (CAS No.: 34598-33-9 and its salts) Assalts (AHPFUNA and its salts) (CAS No.: 2043-47-2) Analysis was performed by LC/MS/MS. Assalts (AHPFUNA and its salts) (CAS No.: 2043-47-2) Analysis was performed by LC/MS/MS. Assalts (AHPFUNA and its salts) (CAS No.: 2043-47-2) Analysis was performed by LC/MS/MS. Assalts (AHPFUNA and its salts) (CAS No.: 2043-47-2) Analysis was performed by LC/MS/MS. Assalts (AHPFUNA and its salts) (CAS No.: 2043-47-2) Analysis was performed by GC/MS. Analysis was performed by LC/MS/MS. Assalts (HFPO-DA and its salts) Analysis was performed by GC/MS. Analysis was performed by GC/MS. Assalts (HFPO-DA and its salts) Analysis was performed by LC/MS/MS. Analysis was performed by LC/MS/MS. Assalts (HFPO-DA and its salts) Analysis was performed by LC/MS/MS. Analysis was performed by LC/MS/MS. Assalts (HFPO-DA and its salts) Analysis was performed by LC/MS/MS. Analysis was performed	Test Item(s)	Method	Unit	MDL	Result	Limit
(NFDHA) (CAS No.: 151772-58-6)  4.8-Dioxa-3H-perfluorononanoic acid (A2DONA) (CAS No.: 919005-14-4)  2H.2H-Perfluorondecane acid (H2PPDA) (CAS No.: 27854-31-5; 882489-14-7)  2H.2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts)  (CAS No.: 34598-33-9 and its salts)  1H,1H,2H,2H-Perfluoro-1-hexanol (4:2  FTOH) (CAS No.: 2043-47-2)  H1,1H,2H,2H-Perfluorodecyl iodide (8:2  FTOH) (CAS No.: 32592-13-6 and its salts)  (CAS No.: 3252-13-6 and its salts)  1H,1H,2H,2H-Perfluorodexenaesulfonic acid eard id: 42: FTOS (CAS No.: 32598-33-9)  H1,1H,2H,2H-Perfluorodecyl iodide (8:2  With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by GC/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by GC/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by GC/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.1 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d analysis was performed					No.1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) (CAS No.: 919005-14-4)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  2H,2H-Perfluorodecane acid (H2PFDA) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 2043-47-2)  H1,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (CAS No.: 2043-47-2)  H1,1H,2H,2H-Perfluorodecyl iodide (8:2 FTI) (CAS No.: 2043-35-0)  2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  H1,1H,2H,2H-Perfluorodexnanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonic acid (N-MeFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2991-50-6)  Perfluoroppypl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	· ·		mg/kg	0.01	n.d.	-
ADONA  (CAS No.: 919005-14-4)   analysis was performed by LC/MS/MS.   with reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.1   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.1   n.d.   - analysis was performed by GC/MS.   mg/kg   0.1   n.d.   - analysis was performed by GC/MS.   mg/kg   0.1   n.d.   - analysis was performed by GC/MS.   mg/kg   0.1   n.d.   - analysis was performed by GC/MS.   mg/kg   0.1   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.1   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/MS.   mg/kg   0.01   n.d.   - analysis was performed by LC/MS/M		, ,				
2H,2H-Perfluorodecane acid (H2PFDA) (CAS No.: 27854-31-5; 882489-14-7) 2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (AHPFUNA and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 2043-47-2) (CAS No.: 2043-47-2) (CAS No.: 2043-53-0) (CAS No.: 2043-53-0) (CAS No.: 2043-53-0) (CAS No.: 13252-13-6 and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 2806-24-8) (CAS No.: 2806-24-8) (CAS No.: 2805-25) (CAS No.: 2991-50-6) (CAS No.: 2335-82-15) (CAS No.: 2991-50-6) (CAS No.: 2991-50-6) (CAS No.: 2602-25) (CAS No.: 2575124-72-5) (CAS No.: 2991-50-6) (CAS No.: 2991-50-6) (CAS No.: 2991-50-6) (CAS No.: 2991-50-6) (CAS No.: 2586-22-5) (CAS No.: 2586-20-5) (CAS No		•	mg/kg	0.01	n.d.	-
(CAS No.: 27854-31-5; 882489-14-7) 2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 2043-47-2) 2H,1H,2H,2H-Perfluoro-1-hexanol (4:2 analysis was performed by LC/MS/MS.  1H,1H,2H,2H-Perfluorodecyl iodide (8:2 analysis was performed by GC/MS.  2H,3H,3-terrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 2043-63-0) (CAS No.: 2043-63-0) (CAS No.: 13252-13-6 and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 2366-24-8) (CAS No.: 2355-31-9)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonic acid and its salts) (CAS No.: 2991-50-6) Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6) Perfluoropentane sulfonic acid and its salts) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.		, ,				
2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (AHPFUnA and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 34598-33-9 and its salts) (CAS No.: 34598-33-9 and its salts) (AHPFUnA and its salts) (CAS No.: 2043-47-2) (AS No.: 2043-47-2) (AS No.: 2043-47-2) (AS No.: 2043-47-2) (AS No.: 2043-53-0) (AS No.: 2043-53-0) (AS No.: 2043-53-0) (AS No.: 13252-13-6 and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 13252-13-6 and its salts) (CAS No.: 2043-53-0) (AS No.: 2043-53-0) (AS No.: 2043-53-0) (AS No.: 2043-53-0) (AS No.: 13252-13-6 and its salts) (AHPFUnDA and its salts)	2H,2H-Perfluorodecane acid (H2PFDA)	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
analysis was performed by LC/MS/MS.  1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 PTOH) (CAS No.: 2043-47-2)  1H,1H,2H,2H-Perfluorodecyl iodide (8:2 With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  1H,1H,2H,2H-Perfluorodecyl iodide (8:2 With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  N-methylperfluorooctane With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  3-Perfluoropentane sulfonic acid and its salts)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	(CAS No.: 27854-31-5 ; 882489-14-7)	analysis was performed by LC/MS/MS.				
(CAS No.: 34598-33-9 and its salts)  1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 pt of the propertion of the	2H,2H,3H,3H-Perfluoroundecanoic Acid	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
HI,1H,2H,2H-Perfluoro-1-hexanol (4:2 Mith reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  HI,1H,2H,2H-Perfluorodecyl iodide (8:2 With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  HI,1H,2H,2H-Perfluorodecyl iodide (8:2 With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.  2,3,3,3-tetrafluoro-2- With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  (AS No.: 13252-13-6 and its salts)  HI,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4) with reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonic acid and its sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  2-Perfluoropentale sulfonic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	and its salts (4HPFUnA and its salts)	analysis was performed by LC/MS/MS.				
FTOH) (CAS No.: 2043-47-2)  analysis was performed by GC/MS.  1H,1H,2H,2H-Perfluorodecyl iodide (8:2 ptl) (analysis was performed by GC/MS.  2,3,3,3-tetrafluoro-2- ptl (heptafluoropropoxy) propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  (CAS No.: 13252-13-6 and its salts)  HH,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluoroctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2991-50-6)  Perfluoroporopyl propanoic acid (3:3 perfluoropoxyl ethanoic acid (6:2 with reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  "mg/kg 0.01 n.d analysis was performed by LC/MS/MS.	(CAS No.: 34598-33-9 and its salts)					
analysis was performed by GC/MS.  1H,1H,2H,2H-Perfluorodecyl iodide (8:2 ptl) (CAS No.: 2043-53-0)  2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts)  (CAS No.: 13252-13-6 and its salts)  (CAS No.: 13252-13-6 and its salts)  HH,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane  Sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
FTI) (CAS No.: 2043-53-0)  analysis was performed by GC/MS.  2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfoniamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2906-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	FTOH) (CAS No.: 2043-47-2)	analysis was performed by GC/MS.				
FTI) (CAS No.: 2043-53-0)  analysis was performed by GC/MS.  2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2386-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	1H,1H,2H,2H-Perfluorodecyl iodide (8:2	With reference to CEN/TS 15968: 2010,	mg/kg	0.1	n.d.	-
(heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EFFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (CAS No.: 2991-50-6)  Perfluoroperopyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	FTI) (CAS No.: 2043-53-0)	analysis was performed by GC/MS.				
(heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EFFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (CAS No.: 2991-50-6)  Perfluoroperopyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	2,3,3,3-tetrafluoro-2-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	_
and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)  1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane wilfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane wilfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d						
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) (CAS No.: 757124-72-4)  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropentane sulfonic acid (3:3) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropentane sulfonic acid (6:2) With reference to CEN/TS 15968: 2010, mg/kg  O.01 n.d	and its salts (HFPO-DA and its salts)					
acid (4:2 FTS) (CAS No.: 757124-72-4) analysis was performed by LC/MS/MS.  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  N-methylperfluorooctane With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	(CAS No.: 13252-13-6 and its salts)					
acid (4:2 FTS) (CAS No.: 757124-72-4) analysis was performed by LC/MS/MS.  Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8) With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  N-methylperfluorooctane With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	1H,1H,2H,2H-Perfluorohexanesulfonic	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(FOSAA) (CAS No.: 2806-24-8)  N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  Analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	acid (4:2 FTS) (CAS No.: 757124-72-4)	analysis was performed by LC/MS/MS.	J. J.			
N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts) (CAS No.: 2706-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	Perfluorooctane sulfonamidoacetic acid	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)  N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	(FOSAA) (CAS No.: 2806-24-8)	analysis was performed by LC/MS/MS.				
N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	N-methylperfluorooctane	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts)  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	sulfonamidoacetic acid (N-MeFOSAA)	analysis was performed by LC/MS/MS.				
sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  2-Perfluoropropyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d						
sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)  Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  2-Perfluoropropyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	N-ethylperfluorooctane	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	_
Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: analysis was performed by LC/MS/MS.  3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5)  2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  With reference to CEN/TS 15968: 2010, mg/kg  0.01 n.d	sulfonamidoacetic acid (N-EtFOSAA)					
salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  4-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  5-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  6-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  7-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  7-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg	(CAS No.: 2991-50-6)					
salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)  3-Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.  4-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  5-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  6-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  7-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg  7-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg	Perfluoropentane sulfonic acid and its	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
3-Perfluoropropyl propanoic acid (3:3 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d FTCA) (CAS No.: 356-02-5) analysis was performed by LC/MS/MS. 2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	salts (PFPeS and its salts) (CAS No.:					
FTCA) (CAS No.: 356-02-5) analysis was performed by LC/MS/MS. 2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	2706-91-4 and its salts)					
FTCA) (CAS No.: 356-02-5) analysis was performed by LC/MS/MS.  2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	3-Perfluoropropyl propanoic acid (3:3	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	
2-Perfluorohexyl ethanoic acid (6:2 With reference to CEN/TS 15968: 2010, mg/kg 0.01 n.d	FTCA) (CAS No.: 356-02-5)	•				
	2-Perfluorohexyl ethanoic acid (6:2	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	
FICA) (CAS NO.: 55826-12-3)   Janaiysis was performed by LC/MS/MS.	FTCA) (CAS No.: 53826-12-3)	analysis was performed by LC/MS/MS.				



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
3-Perfluoropentyl propanoic acid (5:3	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
FTCA) (CAS No.: 914637-49-3)	analysis was performed by LC/MS/MS.				
3-Perfluoroheptyl propanoic acid (7:3	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
FTCA) (CAS No.: 812-70-4)	analysis was performed by LC/MS/MS.				
Bis(1H,1H,2H,2H-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
Perfluorodecyl)phosphate and its salts	analysis was performed by LC/MS/MS.				
(8_2diPAP and its salts) (CAS No.: 678-					
41-1 and its salts)					
Perfluoro(2-ethoxyethane)sulfonic acid	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
(PFEESA) (CAS No.: 113507-82-7)	analysis was performed by LC/MS/MS.				
9-Chlorohexadecafluoro-3-oxanonane-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
1-sulfonic acid (9Cl-PF3ONS) (CAS No.:	analysis was performed by LC/MS/MS.				
756426-58-1)					
11-Chloroeicosafluoro-3-oxaundecane-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	
1-sulfonic acid (11Cl-PF3OUdS) (CAS	analysis was performed by LC/MS/MS.				
No.: 763051-92-9)					
1H,1H,2H,2H-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
Perfluorodecyltriethoxysilane (8:2	analysis was performed by GC/MS.				
FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ) (CAS No.: 101947-16-4)					

#### Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.



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#### PFAS Remark:

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

Classification of Substance Concentration	Substance Name	CAS No.
Perfluorobutane acid and its salts	Ammonium perfluorobutanoate (PFBA-NH <sub>4</sub> )	10495-86-0
(PFBA and its salts)	Sodium perfluorobutanoate (PFBA-Na)	2218-54-4
(CAS No.: 375-22-4 and its salts)	Potassium heptafluorobutanoate (PFBA-K)	2966-54-3
	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
Perfluorobutane sulfonate and its	Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5
salts (PFBS and its salts)	Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3
(CAS No.: 375-73-5 and its salts)	Perfluorobutane Sulfonate K-salt (PFBS-K)	29420-49-3
	Perfluorobutane sulfonyl fluoride (PFBS-F)	375-72-4
	Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> )	25628-08-4
	Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2
	Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7
	Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3
	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide	34454-97-2
	Morpholinium perfluorobutanesulfonate	503155-89-3
	Perfluorobutylsulfonamide (PFBS-NH4*)	30334-69-1
	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH <sub>4</sub> )	68259-10-9
	Nonafluorobutanesulfonic acidHydrate	59933-66-3
	Nonafluoro-1-butanesulfonyl chloride (PFBS-CI)	2991-84-6
	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	-
Perfluoropentane acid and its salts	Sodium perfluoropentanoate (PFPA-Na)	2706-89-0
(PFPA and its salts)	Perfluoropentanoic acid, Sodium Salt (PFPA-Na*)	2483735-37-9
(CAS No.: 2706-90-3 and its salts)	Potasium perfluoropentanoate (PFPA-K)	336-23-2
	Ammonium perfluoropentanoate (PFPA-NH <sub>4</sub> )	68259-11-0
	•	



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Classification of Substance Concentration	Substance Name	CAS No.
Perfluorohexane acid and its salts	Ammonium perfluorohexanoate (PFHxA-NH <sub>4</sub> )	21615-47-4
(PFHxA and its salts)	Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4
(CAS No.: 307-24-4 and its salts)	Potassium perfluorohexanoate (PFHxA-K)	3109-94-2
Perfluorohexane sulfonate and its	Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
salts (PFHxS and its salts)	Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
(CAS No.: 355-46-4 and its salts)	Ammonium perfluorohexanesulfonate (PFHxS-NH <sub>4</sub> )	68259-08-5
	Perfluorohexanesulfonate Li-salt (PFHxS-Li)	55120-77-9
	Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)	70136-72-0
	Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)	423-50-7
	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)	1000597-52-3
	N,N,N-tributylbutan-1-aminium tridecafluorohexane- 1-sulfonate	108427-54-9
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)	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)	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)	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)	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)	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)	1329995-45-0



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Classification of Substance Concentration	Substance Name	CAS No.
Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)	1329995-69-8
	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	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)	1462414-59-0
	lodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)	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)	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)	202189-84-2
	lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)	213740-81-9
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)	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)	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)	421555-73-9



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Classification of Substance Concentration	Substance Name	CAS No.
Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	lodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid	421555-74-0
	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)	425670-70-8
	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	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)	72033-41-1
	lodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl)	866621-50-3
	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)	910606-39-2
	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
	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-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH)	92011-17-1
	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecini um, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	928049-42-7
Perfluoroheptane acid and its salts	Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5
(PFHpA and its salts)	Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
(CAS No.: 375-85-9 and its salts)	Ammonium perfluoroheptanoate (PFHpA-NH <sub>4</sub> )	6130-43-4



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Classification of Substance Concentration	Substance Name	CAS No.
Perfluoroheptane sulfonate and its salts (PFHpS and its salts) (CAS No.: 375-92-8 and its salts)	Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
	sodium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-	68555-66-8
	pentadecafluoroheptane-1-sulphinate	
	Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)	70225-14-8
	Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C2H5)4)	56773-42-3
	N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane- 1-sulfonate (PFOS-DDA)	251099-16-8
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Perfluorononan-1-oic acid and its salts (PFNA and its salts) (CAS No.: 375-95-1 and its salts)	Perfluorononanoate Na-salt (PFNA-Na)	21049-39-8
	Perfluorononanoate ammounium salt (APFN)	4149-60-4
	Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorodecane acid and its salts (PFDA and its salts) (CAS No.: 335-76-2 and its salts) Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No.: 2058-94-8 and its salts)	Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3
	Perfluorodecanoate ammonium salt (APFDA)	3108-42-7
	Ammonium perfluoroundecanoate (PFUnDA-NH <sub>4</sub> )	4234-23-5
	Perfluoroundecanoic acid sodium salt (PFUnDA-K)	60871-96-7
Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts)	Ammonium perfluorododecanoate (APFDoDA)	3793-74-6



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Classification of Substance Concentration	Substance Name	CAS No.
Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No.: 68259-12-1 and its salts)	Sodium perfluoro-1-nonanesulfonate (PFNS-Na*)	98789-57-2
	Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	17202-41-4
Perfluoroundecane sulfonic acid and its salts (PFUnS and its salts) (CAS No.: 749786-16-1 and its salts)	Sodium perfluoroundecane sulfonic (PFUnS-Na+)	
Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No.: 79780-39-5 and its salts)	Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)	1260224-54-1
Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No.: 791563-89-8 and its salts)	Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)	174675-49-1
Perfluorodecane sulfonate and its	Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
salts (PFDS and its salts)	Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
(CAS No.: 126105-34-8, 335-77-3 and its salts)	Perfluoroaliphatic dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> )	67906-42-7
2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, K- salts	67118-55-2
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, ammonium salts	62037-80-3
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, its acyl halides	2062-98-8
2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts)	Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1
Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)	Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*)	630402-22-1
Bis(1H,1H,2H,2H- Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts) (CAS No.: 678-41-1 and its salts)	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6



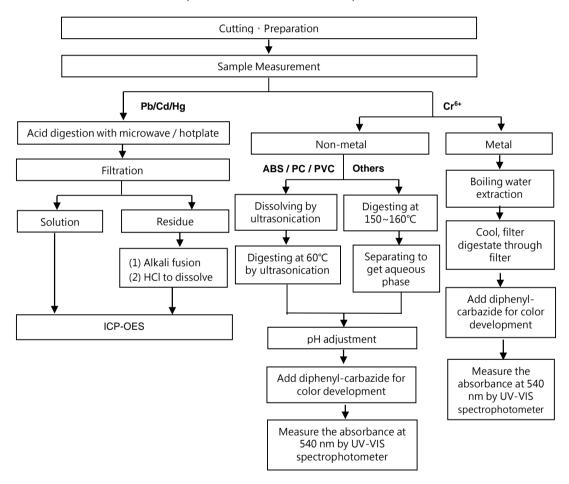
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#### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. ( $Cr^{6+}$  test method excluded)

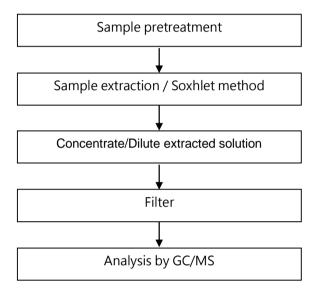




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#### PBB/PBDE analytical FLOW CHART



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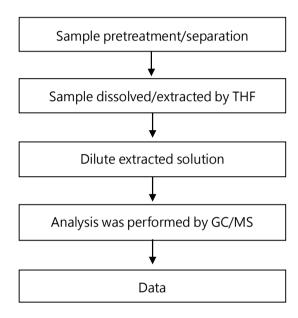


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#### Analytical flow chart of phthalate content

【Test method: IEC 62321-8】

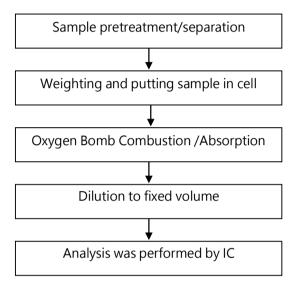




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#### Analytical flow chart of Halogen





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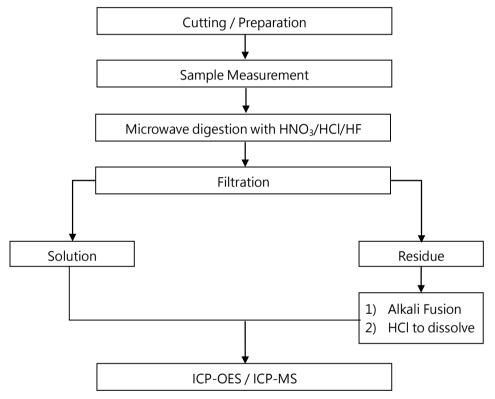
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#### Analytical flow chart of Elements (Heavy metal included)

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

【Reference method: US EPA 3051 \ US EPA 3052】



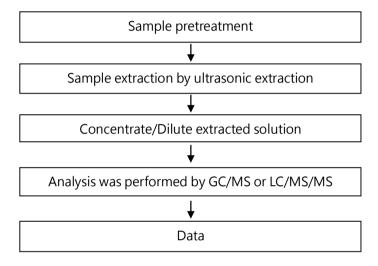
\* US EPA 3051 method does not add HF.



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#### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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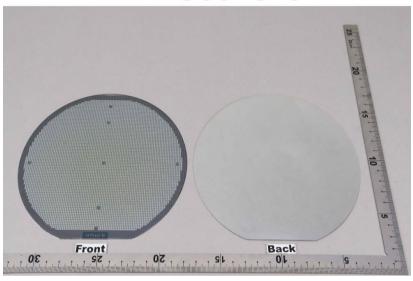


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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*