

# Pender County

605 E. Fremont Street  
Burgaw, NC 28425

Samples Received: 04/18/22

Analytical Report  
0422-824

*Isotope Dilution Method*  
PFAS



**Enthalpy Analytical, LLC – Ultratrace**

Mark Hager

O: 910-876-6894/ F: 910-212-6886

[mark.hager@enthalpy.com](mailto:mark.hager@enthalpy.com) / [www.enthalpy.com](http://www.enthalpy.com)

2714 Exchange Drive, Wilmington, NC 28405

**Enthalpy Analytical**

Job No: 0422-824-1 PFAS by Isotope Dilution (non-potable water)  
 Pender County Client Project: N/A Site: N/A

Enthalpy ID: 0422-824-001-1      Prep Batch: EU13320      Sample Vol (mL): 283.8  
 Sample Name: Raw      Prep Date: 2022-04-19 13:13      Extract Vol (mL): 0.4  
 Matrix: Aqueous      Analysis Date: 2022-04-20 12:01      Split Factor: N/A  
 Sampling Date: 20220418 00:00      Analyst: avheadrick      Method Code: WM-028  
 Received Date: 2022-04-18 16:31      Instrument: Kili      Sample Type: Sample

	Compound	CAS	Extract Concentration ng/L	Sample Concentration ng/L	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	1994.36	2.81	2.81	0.135	0.268				
	PFPeA	2706-80-3	3273.78	4.62	4.62	0.150	0.268				
	PFHxA	307-24-4	2542.23	3.59	3.59	0.170	0.268				
	PFHpA	375-85-9	1428.92	2.02	2.02	0.108	0.268				
	PFOA	335-67-1	2612.80	3.69	3.69	0.158	0.268				
	PFNA	375-85-1	380.73	0.551	0.551	0.0671	0.268				
	PFDA	335-76-2	109.47	0.154	0.154	0.0745	0.268			J	
	PFUnDA	2058-84-8	90.98	0.128	<LOD	0.183	0.268			U	
	PFDoDA	307-55-1	ND	ND	<LOD	0.178	0.268			U	
	PFTeDA	72829-84-8	16.65	0.0235	<LOD	0.133	0.268			U	
	PFTeDA	376-06-7	ND	ND	<LOD	0.192	0.268			U	
	Sulfonates	PFBS	375-73-5	1638.41	2.31	2.31	0.313	0.313			
		PFPeS	2708-91-4	259.06	0.364	0.364	0.182	0.252			
		PFHxS	355-48-4	1889.90	2.67	2.67	0.168	0.245			
PFHpS		375-92-8	ND	ND	<LOD	0.119	0.255			U	
PFOS		1763-23-1	4092.09	5.77	5.77	0.141	0.248				
PFNS		68258-12-1	ND	ND	<LOD	0.0782	0.258			U	
PFDS		335-77-3	ND	ND	<LOD	0.189	0.258			U	
4:2 FTS		757124-72-4	ND	ND	<LOD	0.104	0.251			U	
6:2 FTS		27619-97-2	ND	ND	<LOD	0.102	0.255			U	
8:2 FTS		38108-34-4	39.10	0.0551	<LOD	0.151	0.257			U	
Other	PFOSA	754-91-6	ND	ND	<LOD	0.115	0.288			U	
	N-MeFOSAA	2355-31-9	80.86	0.114	<LOD	0.127	0.288			U	
	N-EiFOSAA	2991-50-6	ND	ND	<LOD	0.0961	0.288			U	
	HFPO-DA	13252-13-6	1538.85	2.17	2.17	0.201	1.27				
	PFMOAA	674-13-5	28606.90	37.5	37.5	1.27	1.27				
	PFMOPrA	377-73-1	ND	ND	<LOD	0.212	0.268			U	
	PFO2HxA	39492-88-1	2386.89	3.34	3.34	1.27	1.27				
	PFO3OA	39492-89-2	985.01	1.39	1.39	1.27	1.27				
	PFO4DA	39492-90-5	ND	ND	<LOD	1.34	1.34			U	
	Nafion Byproduct 1	29311-67-8	ND	ND	<LOD	0.288	0.288			U	
	ADONA	919005-14-4	ND	ND	<LOD	0.106	0.254			U	
	9Cl-PF3ONS	756426-58-1	ND	ND	<LOD	0.106	0.250			U	
	11Cl-PF3OUdS	763051-82-9	ND	ND	<LOD	0.106	0.252			U	
	10:2 FTS	126226-60-0	ND	ND	<LOD	0.212	0.288			U	
	FBSA	30334-88-1	153.31	0.216	0.216	0.212	0.288			J	
	Nafion Byproduct 2	749836-20-2	ND	ND	<LOD	0.288	0.288			U	
	N-EiFOFA	4151-50-2	ND	ND	<LOD	0.212	0.288			U	
	N-EiFOSE	1691-99-2	ND	ND	<LOD	6.35	6.35			U	
	NFDHA	151772-58-6	ND	ND	<LOD	0.212	0.288			U	
	N-MeFOFA	31506-32-8	ND	ND	<LOD	0.212	0.288			U	
	N-MeFOSE	24449-09-7	ND	ND	<LOD	6.35	6.35			U	
	PEPA	267238-81-2	ND	ND	<LOD	1.27	1.27			U	
	PFECA-G	801212-59-9	ND	ND	<LOD	0.288	1.27			U	
	PFEESA	113507-82-7	ND	ND	<LOD	0.212	0.288			U	
	PFHxDA	67905-19-5	ND	ND	<LOD	1.27	1.27			U	
	PFMOBA	863090-88-5	ND	ND	<LOD	1.27	1.27			U	
	PFO5DA	39492-91-8	ND	ND	<LOD	1.34	1.34			U	
	PMPA	13140-29-9	ND	ND	<LOD	1.27	1.27			U	
ES	MPPFA		4683.91	6.61				20-150%	93.7%		
	MSPFPeA		9700.41	13.7				20-150%	194.0%	Q	
	M3PFBS		14586.32	20.6				20-150%	291.9%	Q	
	M2-4:2 FTS		8515.08	9.18				20-150%	130.3%		
	M5PFHxA		6021.81	8.49				20-150%	120.4%		
	M3HFPO-DA		8388.29	11.8				20-150%	168.0%	Q	
	M4PFHpA		5519.26	7.78				20-150%	110.4%		
	M3PFHxS		4359.36	6.15				20-150%	87.2%		
	M2-6:2 FTS		1935.18	2.73				20-150%	38.7%		
	M8PFOA		5522.26	7.79				20-150%	119.4%		
	M9PFNA		5418.13	7.64				20-150%	108.4%		
	M8PFOS		4589.04	6.49				20-150%	92.0%		
	M2-8:2 FTS		4181.32	5.90				20-150%	83.6%		
	M8FOSA-I		3322.42	4.69				20-150%	66.4%		
	M6PFDA		4826.54	6.81				20-150%	96.5%		
	d3-N-MeFOSAA		3754.12	5.29				20-150%	75.1%		
	d5-N-EiFOSAA		3861.68	5.16				20-150%	73.2%		
	M7PFUdA		4443.97	6.27				20-150%	89.8%		
MPPDoA		3886.15	5.17				20-150%	73.3%			
M2PFTeDA		1858.44	2.62				20-150%	37.2%			

### Enthalpy Analytical

Job No.: 0422-824-1 PFAS by Isotope Dilution (non-potable water)  
 Pender County Client Project: N/A Site: N/A

Enthalpy ID	0422-824-002-1	Prep Batch	EU13320	Sample Vol (mL)	287.58
Sample Name	CFE	Prep Date	2022-04-19 13:13	Extract Vol (mL)	0.4
Matrix	Aqueous	Analysis Date	2022-04-20 12:24	Split Factor	N/A
Sampling Date	20220418 00:00	Analyst	avheadrick	Method Code	WM-026
Received Date	2022-04-18 16:31	Instrument	Kali	Sample Type	Sample

	Compound	CAS	Extract Concentration ng/L	Sample Concentration ng/L	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	1968.62	2.74	2.74	0.133	0.264			
	PFPeA	2706-90-3	2988.33	4.16	4.16	0.148	0.264			
	PFFhxA	307-24-4	2224.39	3.09	3.09	0.168	0.264			
	PFHpA	375-85-9	1295.25	1.80	1.80	0.106	0.264			
	PFOA	335-87-1	2521.19	3.51	3.51	0.154	0.264			
	PFNA	375-86-1	388.04	0.540	0.540	0.0882	0.264			
	PFDA	335-78-2	122.28	0.170	0.170	0.0735	0.264			J
	PFUnDA	2058-94-8	28.77	0.0400	<LOD	0.161	0.264			U
	PFDoDA	307-55-1	ND	ND	<LOD	0.178	0.264			U
	PFTeDA	72629-94-8	ND	ND	<LOD	0.131	0.264			U
PFTeDA	376-06-7	18.68	0.0260	<LOD	0.190	0.264			U	
Sulfonates	PFBS	375-73-5	1732.78	2.41	2.41	0.309	0.308			
	PFPeS	2706-91-4	236.64	0.329	0.329	0.179	0.249			
	PFFhS	355-46-4	2272.80	3.16	3.16	0.168	0.242			
	PFHpS	375-82-8	ND	ND	<LOD	0.117	0.252			U
	PFOS	1763-23-1	4260.13	5.95	5.95	0.139	0.245			
	PFNS	68259-12-1	ND	ND	<LOD	0.0751	0.255			U
	PFDS	335-77-3	ND	ND	<LOD	0.167	0.255			U
	4:2 FTS	757124-72-4	ND	ND	<LOD	0.103	0.248			U
	8:2 FTS	27619-97-2	32.57	0.0453	<LOD	0.101	0.252			U
	8:2 FTS	39108-34-4	ND	ND	<LOD	0.148	0.263			U
Other	PFOSA	754-91-6	204.32	0.284	0.284	0.113	0.264			
	N-MeFOSAA	2355-31-9	ND	ND	<LOD	0.125	0.264			U
	N-EtFOSAA	2991-50-6	ND	ND	<LOD	0.0948	0.264			U
	HFPO-DA	13252-13-6	1618.59	2.25	2.25	0.198	1.25			
	PFMOA	674-13-5	21021.25	29.2	29.2	1.25	1.25			
	PFMOPra	377-73-1	ND	ND	<LOD	0.209	0.284			U
	PFO2HxA	39492-88-1	2452.40	3.41	3.41	1.25	1.25			
	PFC3OA	39492-89-2	919.79	1.28	1.28	1.25	1.25			
	PFO4DA	39492-90-5	ND	ND	<LOD	1.32	1.32			U
	Nation Byproduct 1	29311-67-9	ND	ND	<LOD	0.264	0.264			U
	ADONA	919005-14-4	ND	ND	<LOD	0.104	0.250			U
	9Cl-PF3ONS	756426-58-1	ND	ND	<LOD	0.104	0.246			U
	11Cl-PF3OUdS	763051-82-9	ND	ND	<LOD	0.104	0.249			U
	10:2 FTS	120226-60-0	ND	ND	<LOD	0.209	0.264			U
	FBSA	30334-69-1	212.28	0.295	0.295	0.209	0.264			U
	Nation Byproduct 2	749836-20-2	ND	ND	<LOD	0.264	0.264			U
	N-EtFOSE	4151-50-2	ND	ND	<LOD	0.209	0.264			U
	N-EtFOSE	1691-99-2	ND	ND	<LOD	6.26	6.26			U
	NFDHA	151772-58-6	ND	ND	<LOD	0.208	0.264			U
	N-MeFOSE	31506-32-8	ND	ND	<LOD	0.209	0.264			U
	N-MeFOSE	24448-09-7	ND	ND	<LOD	8.26	8.26			U
	PEPA	267239-61-2	ND	ND	<LOD	1.25	1.25			U
	PFECA-G	801212-59-9	ND	ND	<LOD	0.264	1.25			U
	PFEESA	113507-82-7	ND	ND	<LOD	0.208	0.264			U
	PFFhDA	67905-19-5	52.12	0.0725	<LOD	1.25	1.25			U
PFMOBA	863090-89-5	ND	ND	<LOD	1.25	1.25			U	
PFO5DA	39492-91-6	ND	ND	<LOD	1.32	1.32			U	
PMPA	13140-29-9	1682.26	2.35	2.35	1.25	1.25				
ES	MPPFA		5121.34	7.12				20-150%	102.4%	
	M5PPFA		8632.87	12.4				20-150%	178.7%	Q
	M3PFBS		11781.46	16.4				20-150%	235.6%	Q
	M2-4:2 FTS		7563.63	10.5				20-150%	151.3%	Q
	M5PFFhA		8079.46	8.46				20-150%	121.6%	
	M3HFPO-DA		8135.20	11.3				20-150%	162.7%	Q
	M4PFFhA		5327.06	7.41				20-150%	106.5%	
	M3PFFhS		4722.74	6.57				20-150%	94.5%	
	M2-8:2 FTS		3570.70	4.97				20-150%	71.4%	
	M8PFOA		4898.28	6.82				20-150%	98.1%	
	M9PFNA		5239.00	7.29				20-150%	104.8%	
	M8PFOS		4855.58	6.89				20-150%	99.1%	
	M2-8:2 FTS		3277.37	4.56				20-150%	65.5%	
	M8FOSA-I		4026.00	5.60				20-150%	80.5%	
	M6PFDA		5163.39	7.18				20-150%	103.3%	
	d3-N-MeFOSAA		3802.98	5.29				20-150%	76.1%	
	d5-N-EtFOSAA		3817.68	5.31				20-150%	76.4%	
	M7PFUDa		4972.47	6.92				20-150%	98.4%	
MPFDoA		4826.95	6.71				20-150%	96.5%		
M2PFTeDA		3661.70	5.09				20-150%	73.2%		

### Enthalpy Analytical

Job No.: 0422-824-1 PFAS by Isotope Dilution (non-potable water)  
 Pender County Client Project: N/A Site: N/A

Enthalpy ID	0422-824-003-1	Prep Batch	EU13320	Sample Vol (mL)	289.44
Sample Name	Pre-CW	Prep Date	2022-04-19 13:13	Extract Vol (mL)	0.4
Matrix	Aqueous	Analysis Date	2022-04-20 12:47	Split Factor	N/A
Sampling Date	20220418 00:00	Analyst	avheadrick	Method Code	WM-026
Received Date	2022-04-18 16:31	Instrument	Killi	Sample Type	Sample

	Compound	CAS	Extract Concentration ng/L	Sample Concentration ng/L	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	2783.17	3.85	3.85	0.132	0.263				
	PFPeA	2709-90-3	3377.48	4.67	4.67	0.147	0.263				
	PFHxA	307-24-4	2660.10	3.68	3.68	0.167	0.263				
	PFHpA	375-85-9	1276.43	1.76	1.76	0.105	0.263				
	PFOA	335-67-1	1308.26	1.81	1.81	0.153	0.263				
	PFNA	375-95-1	114.92	0.159	0.159	0.0657	0.263			J	
	PFDA	335-78-2	24.22	0.0335	<LOD	0.0730	0.263			U	
	PFUnDA	2058-94-8	7.19	0.00994	<LOD	0.160	0.263			U	
	PFDoDA	307-55-1	ND	ND	<LOD	0.174	0.263			U	
	PFTtDA	72629-84-8	ND	ND	<LOD	0.130	0.263			U	
PFTeDA	378-08-7	ND	ND	<LOD	0.188	0.263			U		
Sulfonates	PFBS	375-73-5	1715.89	2.37	2.37	0.307	0.307				
	PFPeS	2706-91-4	314.48	0.435	0.435	0.178	0.247				
	PFHxS	355-46-4	933.78	1.29	1.29	0.165	0.240				
	PFHpS	375-62-8	ND	ND	<LOD	0.117	0.250			U	
	PFOS	1763-23-1	1323.89	1.83	1.83	0.138	0.243				
	PFNS	68259-12-1	ND	ND	<LOD	0.0748	0.253			U	
	PFDS	335-77-3	ND	ND	<LOD	0.166	0.253			U	
	4:2 FTS	757124-72-4	ND	ND	<LOD	0.102	0.248			U	
	8:2 FTS	27619-87-2	12.82	0.0177	<LOD	0.100	0.250			U	
	8:2 FTS	39108-34-4	ND	ND	<LOD	0.148	0.252			U	
Other	PFOSA	754-91-8	196.45	0.271	0.271	0.112	0.263				
	N-MeFOSAA	2355-31-8	ND	ND	<LOD	0.124	0.263			U	
	N-EFOSAA	2991-50-8	ND	ND	<LOD	0.0942	0.263			U	
	HFPO-DA	13252-13-6	1758.50	2.43	2.43	0.197	1.24				
	PFMOAA	674-13-5	13269.09	18.3	18.3	1.24	1.24				
	PFMOPrA	377-73-1	ND	ND	<LOD	0.207	0.263			U	
	PFO2HxA	39492-89-1	2996.20	4.14	4.14	1.24	1.24				
	PFC3OA	39492-89-2	375.99	0.520	<LOD	1.24	1.24			U	
	PF04DA	39492-80-5	ND	ND	<LOD	1.31	1.31			U	
	Nafion Byproduct 1	28311-67-9	ND	ND	<LOD	0.263	0.263			U	
	ADONA	918005-14-4	ND	ND	<LOD	0.104	0.249			U	
	9Cl-PF3ONS	759426-59-1	ND	ND	<LOD	0.104	0.245			U	
	11Cl-PF3OUds	763051-82-9	ND	ND	<LOD	0.104	0.247			U	
	10:2 FTS	120226-60-0	ND	ND	<LOD	0.207	0.263			U	
	FBSA	30334-89-1	ND	ND	<LOD	0.207	0.263			U	
	Nafion Byproduct 2	749836-20-2	ND	ND	<LOD	0.263	0.263			U	
	N-EFOSE	4151-50-2	ND	ND	<LOD	0.207	0.263			U	
	N-EFOSAE	1681-89-2	ND	ND	<LOD	6.22	6.22			U	
	NFDHA	151772-58-6	ND	ND	<LOD	0.207	0.263			U	
	N-MeFOSA	31508-32-8	ND	ND	<LOD	0.207	0.263			U	
	N-MeFOSE	24449-09-7	ND	ND	<LOD	6.22	6.22			U	
	PEPA	287239-81-2	ND	ND	<LOD	1.24	1.24			U	
	PFECA-G	801212-59-9	ND	ND	<LOD	0.263	1.24			U	
	PFEESA	113507-82-7	ND	ND	<LOD	0.207	0.263			U	
	PFHxDA	87905-19-5	ND	ND	<LOD	1.24	1.24			U	
	PFMOBA	893080-89-5	ND	ND	<LOD	1.24	1.24			U	
	PFO5DA	39452-91-6	ND	ND	<LOD	1.31	1.31			U	
	PMPA	13140-29-9	3083.02	4.27	4.27	1.24	1.24				
	ES	MPPFA		4805.64	6.64				20-150%	86.1%	
		M5PPPeA		8206.74	11.3				20-150%	184.1%	Q
M3PFBS			9215.03	12.7				20-150%	184.3%	Q	
M2-4:2 FTS			7831.70	10.8				20-150%	156.6%	Q	
M5PFHxA			5514.33	7.62				20-150%	110.3%		
M3HFPO-DA			9008.29	12.4				20-150%	180.2%	Q	
M4PFHpA			5328.59	7.37				20-150%	106.6%		
M3PFHxS			4623.12	6.39				20-150%	92.5%		
M2-8:2 FTS			3079.58	4.26				20-150%	61.6%		
M8PFOA			4880.88	6.75				20-150%	97.6%		
M8PFNA			5212.49	7.20				20-150%	104.2%		
M8PFOS			5042.65	6.97				20-150%	100.9%		
M2-8:2 FTS			3488.89	4.78				20-150%	69.2%		
M8FOSA-I			4679.78	6.47				20-150%	93.6%		
M8PFDA			5020.50	6.94				20-150%	100.4%		
d3-N-MeFOSAA			4443.81	6.14				20-150%	88.9%		
d5-N-EFOSAA			4082.83	5.64				20-150%	81.7%		
M7PFUdA			4746.81	6.58				20-150%	94.9%		
MPPDoA			4383.53	6.07				20-150%	87.9%		
M2PFTeDA			3910.68	5.40				20-150%	79.2%		

### Enthalpy Analytical

Job No 0422-824-1 PFAS by Isotope Dilution (non-potable water)  
 Pender County Client Project: N/A Site: N/A

Enthalpy ID	0422-824-004-1	Prep Batch	EU13320	Sample Vol (mL)	287.94
Sample Name	Post-CW	Prep Date	2022-04-19 13:13	Extract Vol (mL)	0.4
Matrix	Aqueous	Analysis Date	2022-04-20 13:11	Split Factor	N/A
Sampling Date	20220419 00:00	Analyst	avheadrick	Method Code	WM-026
Received Date	2022-04-18 16:31	Instrument	Kii	Sample Type	Sample

	Compound	CAS	Extract Concentration ng/L	Sample Concentration ng/L	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	1895.30	2.63	2.63	0.133	0.264				
	PFPeA	2706-90-3	2951.55	4.10	4.10	0.148	0.264				
	PFFhxA	307-24-4	2193.82	3.03	3.03	0.188	0.264				
	PFFHpA	375-85-9	1172.33	1.63	1.63	0.106	0.264				
	PFOA	335-67-1	1550.53	2.17	2.17	0.154	0.264				
	PFNA	375-95-1	145.30	0.202	0.202	0.0661	0.264			J	
	PFDA	335-78-2	35.67	0.0495	<LOD	0.0734	0.264			U	
	PFUnDA	2058-04-8	ND	ND	<LOD	0.161	0.264			U	
	PFDoDA	307-55-1	ND	ND	<LOD	0.175	0.264			U	
	PFTtDA	72628-84-9	12.84	0.0178	<LOD	0.131	0.264			U	
PFTeDA	376-06-7	ND	ND	<LOD	0.188	0.264			U		
Sulfonates	PFBS	375-73-5	1833.57	2.27	2.27	0.308	0.308				
	PFPeS	2706-91-4	205.92	0.288	0.288	0.179	0.249				
	PFFhS	355-46-4	700.12	0.973	0.973	0.166	0.242				
	PFFhPS	375-92-8	ND	ND	<LOD	0.117	0.251			U	
	PFOS	1763-23-1	1179.50	1.64	1.64	0.139	0.244				
	PFNS	69289-12-1	ND	ND	<LOD	0.0750	0.254			U	
	PFDS	335-77-3	ND	ND	<LOD	0.187	0.254			U	
	4:2 FTS	757124-72-4	ND	ND	<LOD	0.102	0.247			U	
	6:2 FTS	27619-87-2	9.44	0.0131	<LOD	0.101	0.251			U	
	8:2 FTS	39108-34-4	ND	ND	<LOD	0.148	0.253			U	
Other	PFOSA	754-81-6	44.30	0.0615	<LOD	0.113	0.264			U	
	N-MeFOSAA	2355-31-9	ND	ND	<LOD	0.125	0.264			U	
	N-EFOSAA	2691-50-6	ND	ND	<LOD	0.0848	0.264			U	
	HFPO-DA	13252-13-6	1859.55	2.58	2.58	0.188	1.25				
	PFMOA	674-13-5	14196.69	18.7	18.7	1.25	1.25				
	PFMOPrA	377-73-1	ND	ND	<LOD	0.208	0.264			U	
	PFO2hxA	39492-89-1	2048.64	2.85	2.85	1.25	1.25				
	PFO3OA	39492-89-2	537.53	0.747	<LOD	1.25	1.25			U	
	PFO4DA	39492-90-5	ND	ND	<LOD	1.32	1.32			U	
	Nafion Byproduct 1	29311-67-9	ND	ND	<LOD	0.264	0.264			U	
	ADONA	919005-14-4	ND	ND	<LOD	0.104	0.250			U	
	9Cl-PF3ONS	756428-58-1	ND	ND	<LOD	0.104	0.248			U	
	11Cl-PF3OUdS	763051-82-9	ND	ND	<LOD	0.104	0.249			U	
	10:2 FTS	120228-60-0	ND	ND	<LOD	0.208	0.264			U	
	FBSA	30334-68-1	ND	ND	<LOD	0.208	0.264			U	
	Nafion Byproduct 2	749936-20-2	ND	ND	<LOD	0.264	0.264			U	
	N-EFOSA	4151-50-2	ND	ND	<LOD	0.208	0.264			U	
	N-EFOSE	1691-99-2	ND	ND	<LOD	8.25	8.25			U	
	NFDHA	151772-58-6	ND	ND	<LOD	0.208	0.264			U	
	N-MeFOSA	31506-32-8	ND	ND	<LOD	0.208	0.264			U	
	N-MeFOSE	24449-09-7	ND	ND	<LOD	6.25	6.25			U	
	PEPA	287239-61-2	ND	ND	<LOD	1.25	1.25			U	
	PFECA-G	801212-59-9	ND	ND	<LOD	0.264	1.25			U	
	PFEESA	113507-82-7	ND	ND	<LOD	0.208	0.264			U	
	PFFhDA	67905-19-5	ND	ND	<LOD	1.25	1.25			U	
	PFMOBA	863090-89-5	ND	ND	<LOD	1.25	1.25			U	
	PFO5DA	39492-91-6	ND	ND	<LOD	1.32	1.32			U	
	PMPA	13140-28-9	1762.12	2.45	2.45	1.25	1.25				
	ES	MPPFA		5589.88	7.77				20-150%	111.8%	
		M5PPeA		9252.98	12.9				20-150%	185.1%	Q
M3PFBS			12277.77	17.1				20-150%	245.6%	Q	
M2-4:2 FTS			6146.93	8.54				20-150%	122.9%		
M5PFFhxA			5757.74	8.00				20-150%	115.2%		
M3HFPO-DA			7759.51	10.8				20-150%	155.2%	Q	
M4PFFHpA			5129.09	7.13				20-150%	102.8%		
M3PFFhS			5187.43	7.19				20-150%	103.3%		
M2-8:2 FTS			4089.04	5.68				20-150%	81.8%		
M8PFOA			5076.81	7.05				20-150%	101.5%		
M9PFNA			5587.77	7.76				20-150%	111.8%		
M8PFOS			5165.51	7.16				20-150%	103.1%		
M2-8:2 FTS			4806.67	6.68				20-150%	96.1%		
M8FOSA-i			3985.93	5.54				20-150%	79.7%		
M6PFDA			5008.17	6.96				20-150%	100.2%		
d3-N-MeFOSAA			4213.26	5.85				20-150%	84.3%		
d5-N-EFOSAA			4185.73	5.81				20-150%	83.7%		
M7PFUDa			4688.94	6.49				20-150%	93.4%		
MPPDoA			3986.08	5.54				20-150%	79.7%		
M2PFTeDA			2234.59	3.10				20-150%	44.7%		