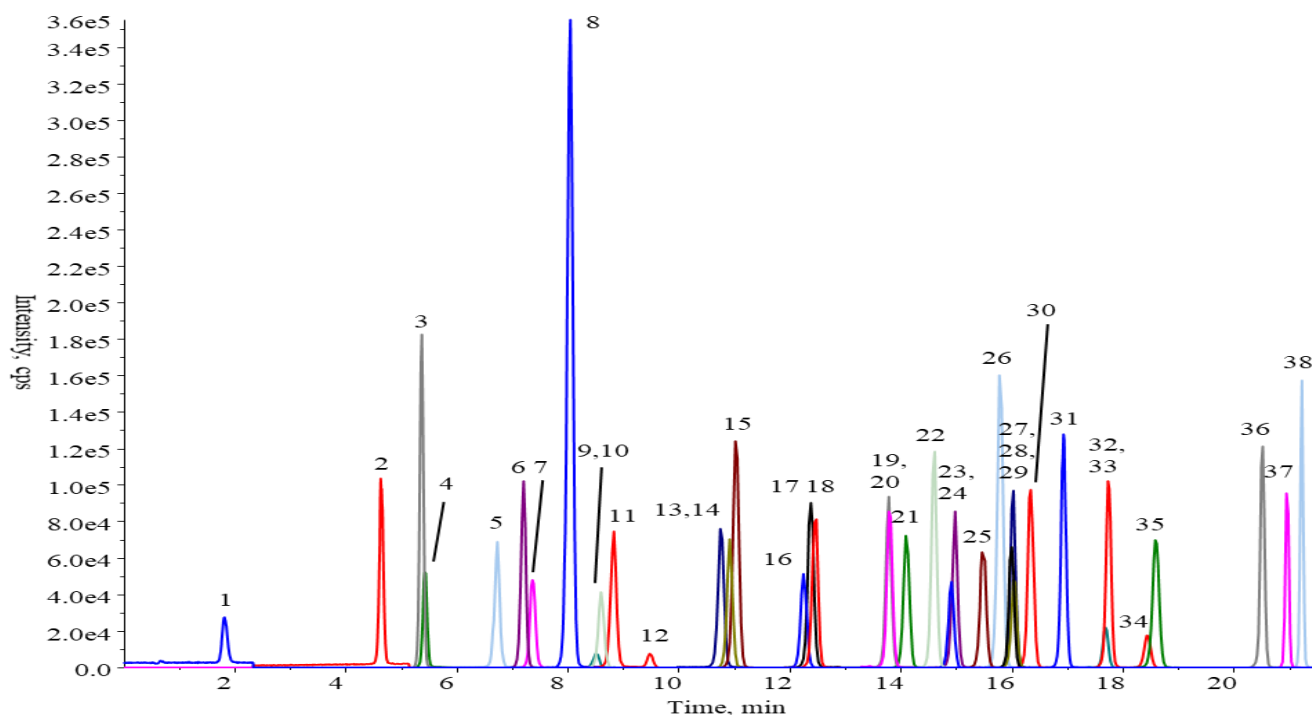


Analysis of Per - and Polyfluoroalkyl Substances (PFAS)



Conditions

- System** : Exion HPLC System (SCIEX)
 QTRAP 6500+ LC-MS/MS System (SCIEX)
Column : InertSustain AQ-C18 (5 μ m, 50 x 2.1 mm I.D.) (GL Sciences Inc.)
Column Cat. No. : 5020-89702
Delay Column : Delay Column for PFAS (30 x 3.0 mm I.D.) (GL Sciences Inc.)
Delay Column Cat. No. : 5020-90005
Eluent : A) CH₃OH
 B) 20 mmol/L CH₃COONH₄ in H₂O

Time (min)	A%	B%
0	5	95
0.5	5	95
3.0	40	60
16.0	80	20
18.0	80	20
20.0	95	5
22.0	95	5
25.0	5	95
30.0	5	95

- Flow Rate** : 0.25 mL/min
Col. Temp. : 40 °C
Detection : LC/MS/MS (ESI, Negative, SRM)
 CUR CAD IS TEM GS1 GS2
 40 12 -4500 300 50 30
Injection Vol. : 2 μ L
Sample : Standard in Methanol (1 ng/mL each)

No.	Compound	R.T.	Transition 1			Transition 2		
			Q1	Q3	CE	Q1	Q3	CE
1	PFPrA	1.8	163	119	-16			
2	PFBA	4.6	213	169	-14			
3	PFPrS	5.4	249	80	-52	249	99	-34
4	PFMBA	5.4	229	85	-16			
5	PFPeA	6.7	263	219	-11			
6	PFBS	7.2	299	80	-59	299	99	-44
7	PFMPA	7.4	279	85	-14			
8	PFEESA	8.0	315	135	-30	315	83	-24
9	NFDHA	8.5	295	201	-12	295	85	-30
10	4:2 FTSA	8.6	327	307	-28	327	81	-54
11	PFHxA	8.8	313	269	-15	313	119	-30
12	HFPO-DA(GenX)	9.5	329	169	-16	329	285	-8
13	PFHpA	10.8	363	319	-14	363	169	-26
14	PFHxS	10.9	399	80	-80	399	99	-80
15	ADONA(DONA)	11.0	377	251	-14	377	85	-56
16	6:2 FTSA	12.2	427	407	-32	427	81	-72
17	PFOA	12.4	413	369	-14	413	169	-26
18	PFHpS	12.5	449	80	-104	449	99	-70
19	PFNA	13.8	463	419	-16	463	219	-26
20	PFOS	13.8	499	80	-97	499	99	-77
21	8:2 FTUCA	14.1	457	393	-18	457	343	-52
22	9Cl-PF3ONS	14.6	531	351	-40	531	83	-56
23	8:2 FTSA	14.9	527	507	-40	527	81	-82
24	PFDA	15.0	513	469	-19	513	219	-27
25	N-MeFOSAA	15.5	570	419	-28	570	483	-22
26	FOSA(PFOSA)	15.8	498	78	-85	498	169	-40
27	PFDS	16.0	599	80	-94	599	99	-91
28	PFUnDA(PFUnA)	16.0	563	519	-19	563	269	-28
29	N-EtFOSAA	16.0	584	419	-28	584	526	-22
30	10:2 FTUCA	16.3	557	493	-20	557	243	-52
31	PFDoDA(PFDoA)	16.9	613	569	-17	613	269	-29
32	PFTTrDA(PFTTrA)	17.7	663	619	-19	663	269	-32
33	N-MeFOSA	17.7	512	169	-37	512	219	-34
34	N-EtFOSA	18.4	526	169	-37	526	219	-34
35	PFTeDA(PFTeA)	18.6	713	669	-19	713	319	-36
36	PFHxDA	20.5	813	769	-20	813	319	-34
37	8:2 diPAP	21.0	989	97	-88	989	543	-35
38	PFOcDA(PFOcDA)	21.2	913	869	-20	913	369	-40