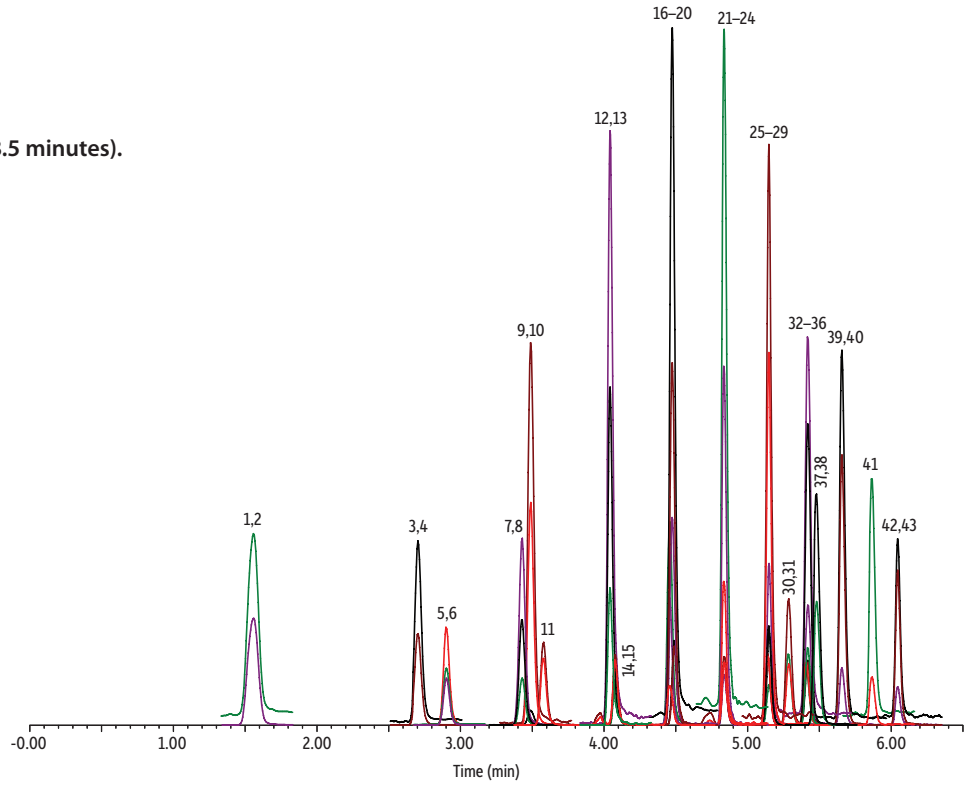
PFAS by Direct Injection on Force C18 (3 µm) (EPA Method 8327)

- **Short cycle time (8.5 minutes).**



LC_EV0578

Peaks	t_R (min)	Conc. (ng/L)	Precursor Ion	Product Ion	Product Ion
1. Perfluorobutanoic acid (PFBA)	1.56	80	231.1	169.1	-
2. Perfluoro-*n*-[$^{13}C_4$]butanoic acid (M4PFBA)	1.56	40	217.0	172.0	-
3. Perfluoropentanoic acid (PFPeA)	2.70	80	263.0	219.0	-
4. Perfluoro-*n*-[$^{13}C_5$]pentanoic acid (M5PFPeA)	2.70	40	268.0	223.0	-
5. Perfluorobutane sulfonic acid (PFBS)	2.90	80	299.1	80.0	99.0
6. Perfluoro-1-[2,3,4-$^{13}C_3$]butyl sulfonic acid (M3PFBS)	2.90	40	302.0	80.0	-
7. 1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	3.43	80	327.1	307.1	80.8
8. 1H, 1H, 2H, 2H-perfluoro-1-[1,2-$^{13}C_2$]hexyl sulfonic acid (M2-4:2 FTS)	3.43	40	329.0	309.0	-
9. Perfluorohexanoic acid (PFHxA)	3.49	80	313.1	269.1	119.1
10. Perfluoro-*n*-[1,2,3,4,6-$^{13}C_5$]hexanoic acid (M5PFHxA)	3.49	40	318.0	273.0	-
11. Perfluoropentane sulfonic acid (PFPeS)	3.58	80	349.1	80.0	99.0
12. Perfluoroheptanoic acid (PFHpA)	4.04	80	363.2	319.1	169.1
13. Perfluoro-*n*-[1,2,3,4-$^{13}C_4$]heptanoic acid (M4PFHpA)	4.04	40	367.0	322.0	-
14. Perfluorohexane sulfonic acid (PFHxS)	4.07	80	399.1	80.0	99.0
15. Perfluoro-1-[1,2,3-$^{13}C_3$]hexyl sulfonic acid (M3PFHxS)	4.07	40	402.0	80.0	-
16. 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	4.46	80	427.2	407.2	80.7
17. 1H, 1H, 2H, 2H-perfluoro-1-[1,2-$^{13}C_2$]octyl sulfonic acid (M2-6:2 FTS)	4.46	40	429.0	409.0	-
18. Perfluorooctanoic acid (PFOA)	4.48	80	412.9	369.0	169.0
19. Perfluoro-*n*-[$^{13}C_8$]octanoic acid (M8PFOA)	4.48	40	421.0	376.0	-
20. Perfluoroheptane sulfonic acid (PFHpS)	4.49	80	449.2	80.0	99.0
21. Perfluorononanoic acid (PFNA)	4.84	80	463.2	419.2	219.1
22. Perfluoro-*n*-[$^{13}C_9$]nonanoic acid (M9PFNA)	4.84	40	472.0	427.0	-
23. Perfluorooctane sulfonic acid (PFOS)	4.84	80	499.2	80.0	99.0
24. Perfluoro-1-[$^{13}C_8$]octyl sulfonic acid (M8PFOS)	4.84	40	506.8	80.0	-
25. Perfluorononane sulfonic acid (PFNS)	5.14	80	549.2	80.0	99.0
26. 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	5.15	80	527.2	507.2	80.8
27. 1H, 1H, 2H, 2H-perfluoro-1-[1,2-$^{13}C_2$]decyl sulfonic acid (M2-8:2 FTS)	5.15	40	529.0	509.0	-
28. Perfluorodecanoic acid (PFDA)	5.15	80	513.2	469.2	219.1
29. Perfluoro-*n*-[1,2,3,4,5,6-$^{13}C_6$]decanoic acid (M6PFDA)	5.15	40	518.9	473.9	-
30. N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	5.28	80	570.2	419.2	483.2
31. N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid (d3-N-MeFOSAA)	5.28	40	572.9	418.9	-
32. Perfluorodecane sulfonic acid (PFDS)	5.40	80	599.2	80.0	99.0
33. N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	5.42	80	584.2	419.2	483.1
34. N-ethyl-d5-perfluoro-1-catanesulfonamidoacetic acid (d5-N-EtFOSAA)	5.42	40	589.0	419.0	-
35. Perfluoroundecanoic acid (PFUnA)	5.42	80	563.2	519.2	269.1
36. Perfluoro-*n*-[1,2,3,4,5,6,7-$^{13}C_7$]undecanoic acid (M7PFUnA)	5.42	40	569.9	524.9	-
37. Perfluorooctane sulfonic acid (FOSA)	5.49	80	498.2	78.0	-
38. Perfluoro-1-[$^{13}C_8$]octanesulfonamide (M8FOSA)	5.49	40	505.9	78.0	-
39. Perfluorododecanoic acid (PFDoA)	5.65	80	613.2	569.2	169.1
40. Perfluoro-*n*-[1,2,-$^{13}C_2$]dodecanoic acid (M2PFDoA)	5.65	40	614.8	569.9	-
41. Perfluorotridecanoic acid (PFTriA)	5.86	80	663.2	619.2	169.1
42. Perfluorotetradecanoic acid (PFTreA)	6.05	80	713.2	669.2	169.1
43. Perfluoro-*n*-[1,2-$^{13}C_2$]tetradecanoic acid (M2PFTreA)	6.05	40	714.8	669.7	-

Column Force C18 (cat.# 9634352)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 3 µm
Pore Size: 100 Å
Temp.: 40 °C
Standard/Sample
Diluent: 50:50 Water:methanol, 0.1% acetic acid
Conc.: 80 ppt (40 ppt for surrogate or isotopically-labelled PFAS)
Inj. Vol.: 10 µL

Mobile Phase
A: Water, 5 mM ammonium acetate
B: Methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.4	80	20
6.00	0.4	5	95
6.50	0.4	5	95
6.51	0.4	80	20
8.50	0.4	80	20

Detector MS/MS
Ion Mode: ESI-
Mode: MRM
Instrument UHPLC
Notes A PFAS delay column (cat.# 27854) was installed before the injector.