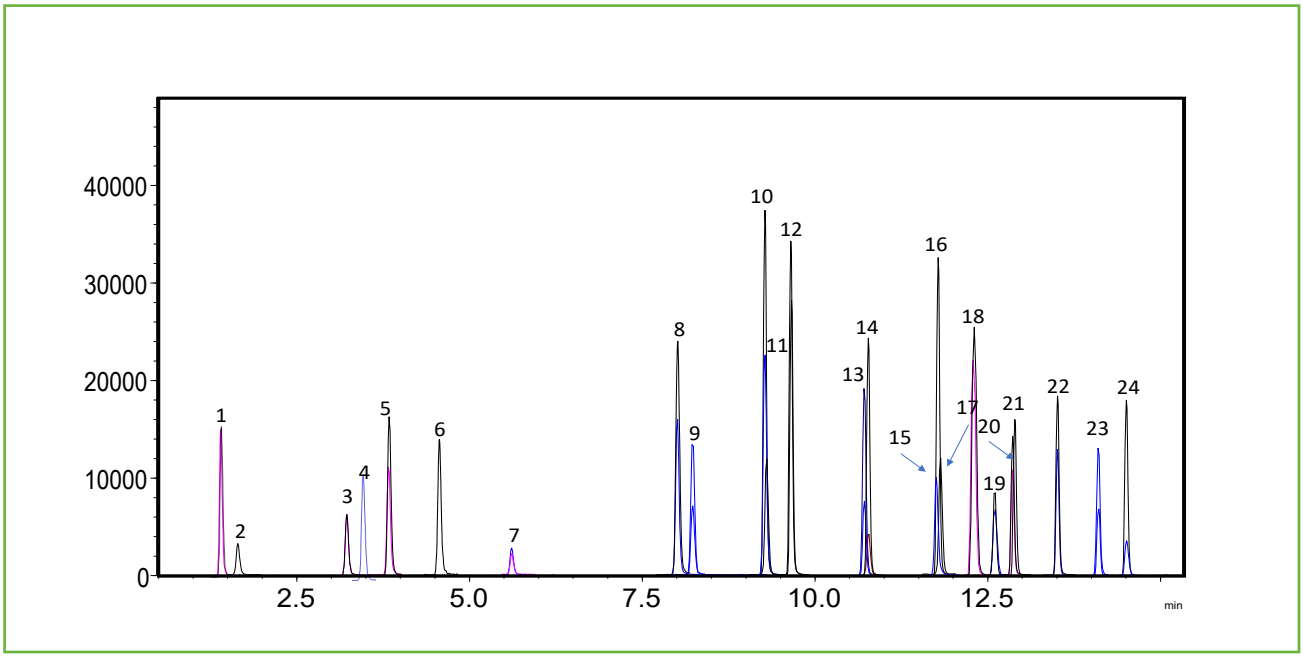
HALO®

ENVIRONMENTAL

PFAS Analysis According to EPA 8327

246-PF



Peak #	Compound	Transition	t_R (min)	Peak #	Compound	Transition	t_R (min)
1	PFBA	213.0000>169.0000	1.358	13	PFNA	463.0000>419.0000	10.751
2	4:2FTS	229.0000>85.0000	1.890	14	PFOS	499.0000>80.0000	10.793
3	PFPeA	263.0000>219.0000	3.219	15	PFNS	527.0000>507.0000	11.843
4	PFBS	299.0000>80.0000	3.810	16	PFDA	513.0000>469.0000	11.885
5	PFHpS	279.0000>85.0000	3.967	17	8:2FTS	549.0000>80.0000	11.897
6	PFPeS	315.0000>135.0000	4.791	18	N-MeFOSAA	570.0000>419.0000	12.366
7	PFHxA	313.0000>269.0000	5.684	19	6:2FTS	498.0000>78.0000	12.680
8	PFHpA	363.0000>319.0000	7.763	20	PFUnA	563.0000>519.0000	12.862
9	PFHxS	399.0000>80.0000	7.985	21	N-EtFOSAA	584.0000>419.0000	12.865
10	FOSA	427.0000>407.0000	9.304	22	PFDoA	613.0000>569.0000	13.708
11	PFOA	413.0000>369.0000	9.398	23	PFTrDA	663.0000>619.0000	14.446
12	PFDS	295.0000>201.0000	9.695	24	PFTeDA	713.0000>669.0000	15.103

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TEST CONDITIONS:

Analytical Column: HALO® PFAS, 2.7 µm, 2.1 x 100 mm
Part Number: 92812-613
Delay Column: HALO® PFAS Delay, 3.0 x 50 mm
Part Number: 92113-415
Mobile Phase A: 10 mM Ammonium Acetete
Mobile Phase B: Methanol

Gradient:

Time	%B
0.0	33
18	98
18.1	100
21.0	100
21.1	33
26.0	End

Flow Rate: 0.4 mL/min
Initial Back Pressure: 485 bar
Temperature: 35 °C
Injection Volume: 2.0 µL
Sample Solvent: Methanol (96%) Water (4%)

MS Conditions:

Detection: -ESI MS/MS
LC System: Shimadzu Nexera X2
ESI LCMS System: Shimadzu LCMS-8040
Spray Voltage: -2.0 kV
Nebulizing Gas: 2 L/min
Drying Gas: 15 L/min
DL Temperature: 250 ˚C
Heat Block: 400 ˚C

In 2019, the EPA validated method 8327 for non-potable water testing, which includes the analysis of 24 total PFAS compounds in a variety of aquatic matrices with 14 compounds being common across this method and EPA 537.1. Here we present this high resolution separation on the HALO® PFAS delay column coupled with the HALO® PFAS analytical column.