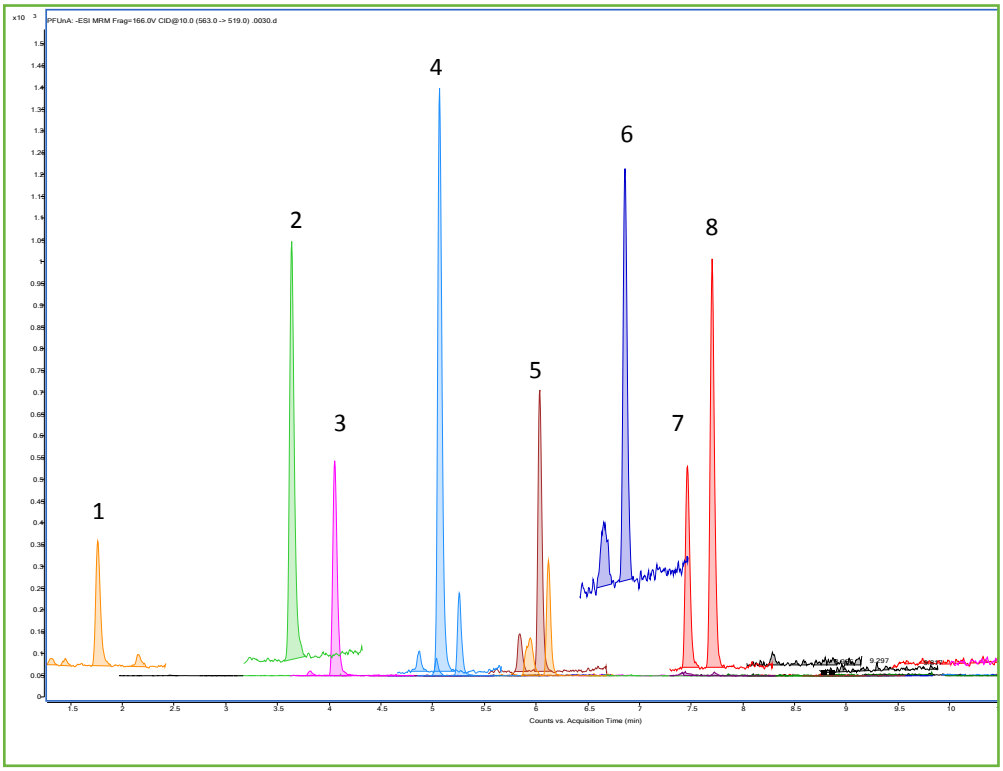
Analysis of PFAS in Bottled Water by EPA method 1633



Peak #	Compound	Result ng/L	MRL (LOQ) ng/L
1	PFPeA	3.5	2
2	PFBS	3.3	1
3	PFHxA	2.2	1
4	PFPeS	2	1
5	PFHpA	1.1	1
6	PFHxS	4.5	1
7	PFOA	2	1
8	PFNA	2.7	1

TEST CONDITIONS:

Analytical Column: HALO® PFAS, 2.7 µm, 2.1 x 100 mm
Part Number: 92812-613
Delay Column: HALO® PFAS Delay, 2.7 µm, 3.0 x 50 mm
Part Number: 92113-415
Mobile Phase A: 20 mM Ammonium Acetate
Mobile Phase B: Methanol
Gradient:

Time	%B
0.0	20
12	90
15	90
15.1	20
18	End

Flow Rate: 0.4 mL/min
Pressure: 505 bar
Temperature: 44 °C
Detection: -ESI MS/MS
Injection Volume: 2.0 µL
Sample Solvent: Methanol (96%) Water (4%)
MS System: Agilent 6400 series
LC System: Agilent 1200 series

MS Conditions:

Gas Temp: 130 °C
Nebulizer: 25 psi
Gas Flow: 11 L/min
Sheath Gas Heater: 250 °C
Capillary: 3500 V

The HALO® PFAS solution was able to detect and quantify PFAS species in bottled water above the MRL. 8 PFAS species were found above the MRL, and in one case 4.5X higher than the MRL. The high levels of PFAS detected in the sample show that there is a critical need for federal limits to be established in the bottled water industry.

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