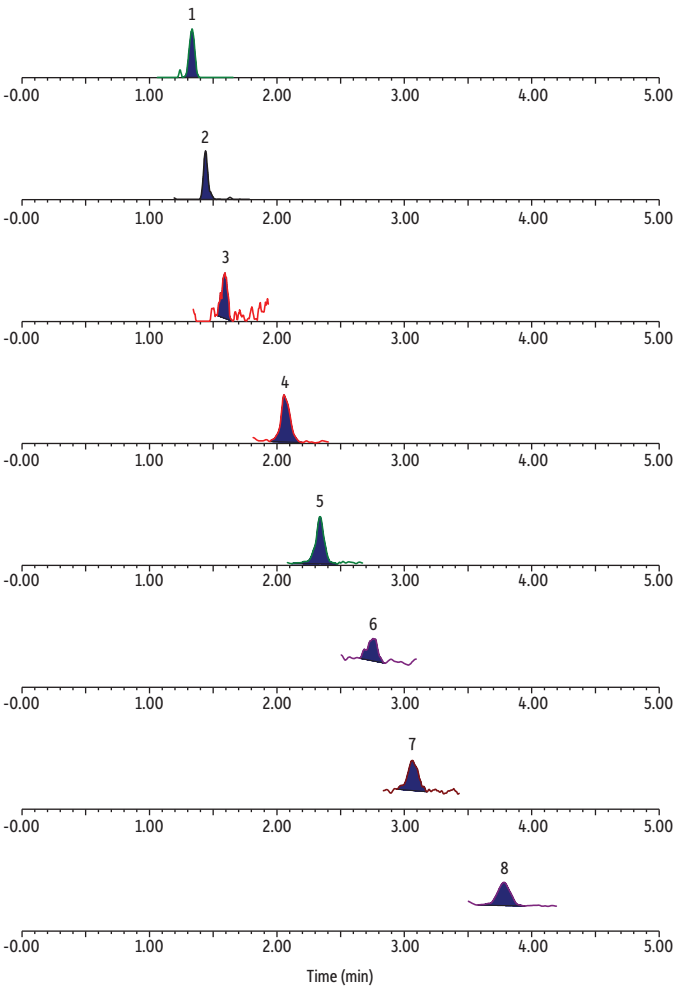
Detectable PFAS in Blank Publicly Owned Treatment Works (POTW) Water on Raptor Polar X



LC_EV0572

Peaks	tR (min)	Precursor Ion	Product Ion
1. Perfluorooctanesulfonic acid (PFOS)	1.35	498.84	79.97
2. Perfluorohexanesulfonic acid (PFHxS)	1.45	398.90	79.97
3. Perfluorobutanesulfonic acid (PFBS)	1.58	298.97	79.97
4. Perfluorooctanoic acid (PFOA)	2.05	412.90	368.91
5. Perfluorohexanoic acid (PFHxA)	2.34	312.97	268.90
6. Perfluorobutanoic acid (PFBA)	2.76	212.97	168.97
7. Perfluoropropionic acid (PFPrA)	3.06	163.03	119.01
8. Trifluoroacetic acid (TFA)	3.78	113.03	69.01

Column Raptor Polar X (cat.# 9311A52)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 2.7 µm
Temp.: 40 °C
Standard/Sample
Diluent: Methanol
Conc.: Endogenous levels
Inj. Vol.: 10 µL
Mobile Phase
A: Water, 10 mM ammonium formate, 0.05% formic acid
B: Acetonitrile:methanol (60:40), 0.05% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	15	85
8.00	0.5	15	85

Detector MS/MS
Ion Mode: ESI-
Mode: MRM
Instrument UHPLC
Sample Preparation In a polypropylene vial, 250 µL of blank POTW water was mixed with 250 µL of methanol and 5 µL of internal standard solution (10 ng/mL of $^{13}C_2$-PFHxA, $^{13}C_2$-PFOA, $^{13}C_3$-PFBS, and $^{13}C_4$-PFOS in methanol). The vial was capped with a polyethylene cap for injection analysis.