

## Ascentis® Express PFAS LC-MS Analysis of PFAS 33 Compounds in 5 minutes

### LC Conditions:

Analytical Column: Ascentis Express PFAS, 2.7µm, 10cm x 2.1mm, 90A  
 Gradient:  
 Part Number: 53559-U  
 Delay Column: Ascentis Express PFAS Delay, 2.7µm, 5cm x 3mm  
 Part Number: 53572-U  
 Mobile Phase A: 10 mM Ammonium Acetate  
 Mobile Phase B: Methanol  
 Flow Rate: 0.4 mL/min  
 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 temp: 250 °C  
 Heat Block: 400 °C

Peak Number	Compound	Transition	Retention Time (min)
1	PFBA	2130000>1690000	0.755
2	4:2FTS	2290000>850000	1.031
3	PFPeA	2630000>2190000	1.762
4	PFBS	2990000>800000	1.979
5	PFHpS	2790000>850000	2.035
6	PFPeS	3150000>1350000	2.273
7	PFMPA	3270000>3070000	2.454
8	PFHxA	3130000>2690000	2.514
9	PFEESA	3490000>800000	2.599
10	HFPO-DA	2850000>1690000	2.670
11	PFHxS	3990000>800000	3.013
12	NaDONA	3770000>2510000	3.033
13	ADONA	3770000>2509000	3.034
14	FOSA	4270000>4070000	3.299
15	PFOA	4130000>3690000	3.316
16	PFMBA	4490000>800000	3.328
17	PFHpA	3630000>3190000	3.388
18	PFOS	4990000>800000	3.588
19	9Cl-PF3ONS	5309000>3510000	3.719
20	8:2FTS	5490000>800000	3.816
21	PFNS	5270000>5070000	3.820
22	PFDA	5130000>4690000	3.822
23	N-MeFOSAA	5700000>4190000	3.925
24	PFNA	4630000>4190000	3.942
25	NFDHA	5990000>800000	4.015
26	PFUnA	5630000>5190000	4.025
27	N-EtFOSAA	5840000>4190000	4.029
28	6:2FTS	4980000>780000	4.033
29	11Cl-PF3OUdS	6307000>4510000	4.110
30	PFTrDA	6630000>6190000	4.355
31	PFDoA	6130000>5690000	4.496
32	PFTeDA	7130000>6690000	4.745
33	PFDS	2950000>2010000	4.921

