HPLC Application

ID No.: **25436**

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GenX replacement PFOA compound by LC-MS/MS

Column:	Gemini® 3 µm C18 110 Å, LC Column 50 x 2 mm, Ea
Dimensions:	50 x 2 mm ID
Order No:	00B-4439-B0
Elution Type:	Gradient
Eluent A:	20mM Ammonium Acetate in Water
Eluent B:	Methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	0.1	45	55
	3	4.5	1	99
	4	8	1	99
	5	8.5	95	5

Flow Rate:	0.6 mL/min
Col. Temp.:	40 °C
Detection:	LC/MS/MS @ (ambient)

Gemini®

Gemini®
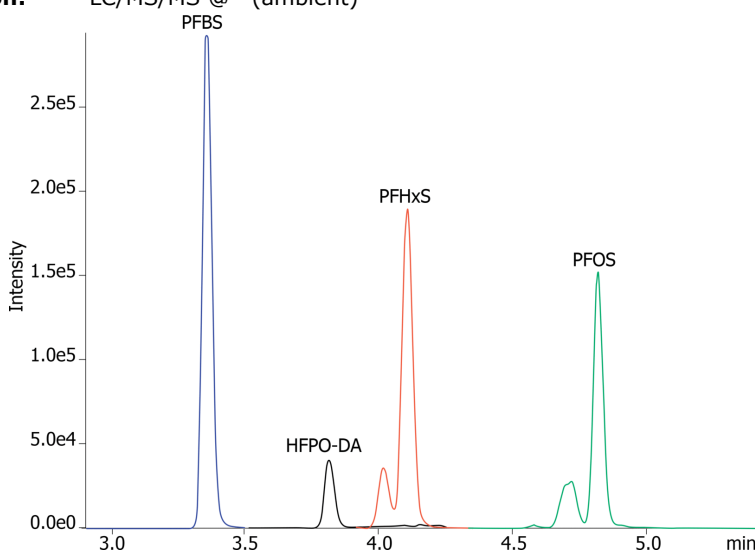
ANALYTES:

1 PFBS
Retention Time: 3.4 min

2 PFBS
Retention Time: 3.4 min

3 HFPO-DA
Retention Time: 3.7 min

4 HFPO-DA
Retention Time: 3.7 min

5 13C3-HFPO-DA
Retention Time: 3.7 min

6 PFHxS
Retention Time: 4.1 min

7 PFHxS
Retention Time: 4.1 min

8 PFOS
Retention Time: 4.7 min

9 PFOS
Retention Time: 4.7 min

For more information contact your Phenomenex Representative at support@phenomenex.com

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PRODUCT DESCRIPTION:
Strata GCB, 500mg/6mL, 30/Pk

Order No.: 8B-S528-HCH

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:
Note: The solvent volumes shown below are for a bed mass.
The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

Elute:

Final Prep and Analysis:

All standards including HFPO-DA and its stable isotope labelled surrogate 13C3-HFPO-DA were purchased from Wellington Laboratories (Guelph, Ontario). 200 mL water samples were extracted

Inject: 10 µL on HPLC LC/MS/MS @   (ambient)

ANALYTES:		**Spiked Conc. (ng/mL)**	**Log P**	**pKa**	**% Rec**	**%RSC (n=0)**
1	PFBS	0				
2	PFBS	0				
3	HFPO-DA	0				
4	HFPO-DA	0				
5	13C3-HFPO-DA	0				
6	PFHxS	0				
7	PFHxS	0				
8	PFOS	0				
9	PFOS	0				

Note: *This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.*
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

Phenomenex products are available worldwide.