Perfluoroalkyl Substances by Ion-Pairing LC-MS/MS

ACE® Ultra-inert UHPLC & HPLC Columns

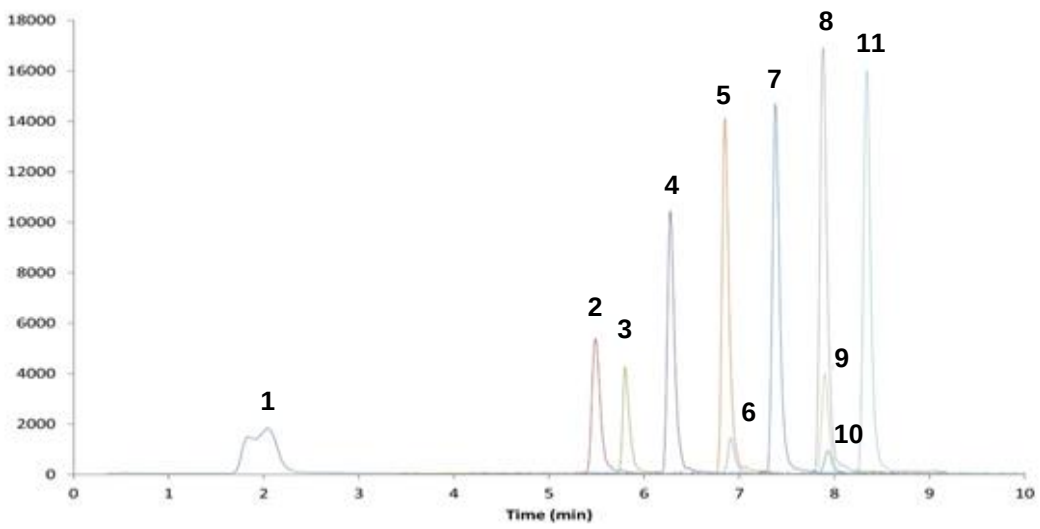
Application #AN2560

Conditions

Column:	ACE UltraCore 2.5 SuperC18
Dimensions:	50 x 2.1 mm
Part Number:	CORE-25A-0502U
Mobile Phase:	A: 2 mM ammonium acetate + 5 mM 1-methylpiperidine in MeOH/H_2O (5:95 v/v) B: 2 mM ammonium acetate + 5 mM 1-methylpiperidine in MeOH/H_2O (95:5 v/v)

Time (mins)	%B
0.0	10
0.3	10
1.0	20
1.5	50
5.0	80
10.0	80
13.0	100
16.0	100

Flow Rate:	0.3 mL/min
Injection:	5 µL
Temperature:	35 °C
Detection:	Agilent 6430 triple quad MS ESI in negative ion mode Capillary voltage: 3000 V Nebulizer pressure: 50 psi



1. PFBA
   (*m/z* 213 → 169)
2. PFPeA
   (*m/z* 263 → 219)
   (*m/z* 263 → 175)
3. PFBS
   (*m/z* 299 → 99)
   (*m/z* 299 → 80)
4. PFHxA
   (*m/z* 313 → 269)
   (*m/z* 313 → 119)
5. PFHpA
   (*m/z* 363 → 319)
   (*m/z* 363 → 169)
6. PFHxS
   (*m/z* 399 → 99)
   (*m/z* 399 → 80)
7. PFOA
   (*m/z* 413 → 369)
   (*m/z* 413 → 169)
8. PFNA
   (*m/z* 463 → 419)
   (*m/z* 463 → 169)
9. PFOS
   (*m/z* 499 → 99)
   (*m/z* 499 → 80)
10. FOSA
    (*m/z* 498 → 498)
    (*m/z* 498 → 78)
11. PFDA
    (*m/z* 513 → 469)
    (*m/z* 513 → 269)

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