

	ΕV		

Conc.		
(μg/mL)	tr (30 m)	tr (LPGC)
2	3.10	1.90
2	4.17	2.43
2	5.44	3.01
2	6.65	3.53
		(µg/mL) tr (30 m) 2 3.10 2 4.17 2 5.44

See notes

Standard/Sample 2-(Perfluorobutyl)ethanol

2-(Perfluorohexyl)ethanol 2-(Perfluorooctyl)ethanol 2-(Perfluorodecyl)ethanol

Methanol

Diluent: Conc.: 2 µg/mL

Injection

Inj. Vol.: 1 μL split (split ratio 5:1)

Topaz, precision inlet liner, 4.0 mm x 6.3 x 78.5 (cat.# 23305) 280 °C Liner:

Inj. Temp.: Carrier Gas He MS SIM Detector Mode:

SIM Program: 131 m/z, 300 ms dwell

Transfer Line Temp.: 280 °C Quadrupole 250 °C 180 °C Analyzer Type: Source Temp.: Quad Temp.: Tune Type: PFTBA Ionization Mode: ΕI

Instrument Agilent 7890B GC & 5977A MSD

All standards (original concentration of 100 μ g/mL) were combined into one solution at a concentration 1 ppm in polypropylene vial (cat. #23242) with a polypropylene cap (cat. #23244). A 50 μ L aliquot was analyzed by GC-MS using a 100 μ L insert (cat. #24512). **Sample Preparation**

Notes Conventional (30 m) Ánalysis:

Column: Rtx-200ms, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 15623) Temp. program: 35 °C (hold 1 min) to 280 °C at 15 °C/min (hold 5 min)

Flow: 1.2 mL/min

SIM start: 2.5 min SIM: 131 m/z, 300 ms

Column: LPGC Rtx-200 column kit, includes 10 m x 0.32 mm ID x 1.00 µm Rtx-200 analytical column and 5 m x 0.15 mm ID Rxi restrictor factory connected via SilTite connector (cat.# 11807)

Temp. program: 35 °C (hold 0.5 min) to 280 °C at 35 °C/min (hold 5 min)

Flow: 0.9 mL/min SIM start: 1.5 min SIM: 131 m/z, 300 ms

Pulsed split injection was used; 30 psi until 0.15 min.

The injections were performed on different instruments under different head pressures, resulting in different analyte responses.



GC-MS.