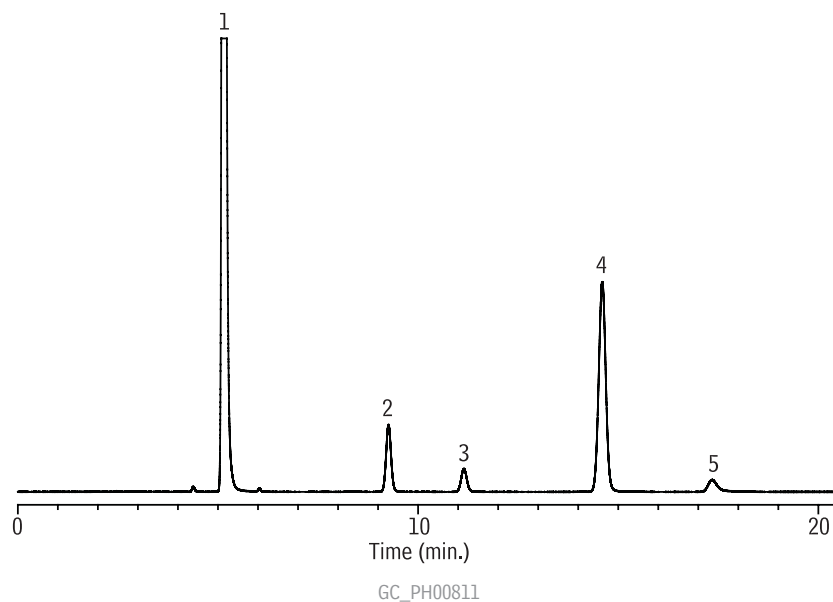


**Dynamic Headspace
USP <467> solvents
Rtx®-G43**



Column: Rtx®-G43 30m, 0.53mm ID, 3.0 μ m (cat.# 16085-126)
 Sample: USP <467> Calibration Mixture #5 (cat.# 36007) in DMSO stock standard. To each 22mL headspace vial 5ml water, ~ 1.0g of sodium sulfate and 100 μ L of stock standard were added. The preparation yielded the following concentrations,

	Retention Time (min.)	Sample Concentration (μ g/ml)
1. dichloromethane	5.137	12.0
2. chloroform	9.260	1.2
3. benzene	11.145	0.04
4. trichloroethylene	14.601	1.6
5. 1,4-dioxane	17.349	7.6

Inj.: headspace injection (see dynamic headspace conditions)
 Inj. temp.: 180°C
 Carrier gas: helium, split 2:1
 Linear velocity: 5mL/min, constant flow
 Oven temp.: 40°C for 20 min., to 240°C at 25°C/min, hold for 10 min.
 Det.: FID @ 250°C
 hydrogen flow: 40mL/min.
 air flow: 450mL/min.
 make-up flow: 45mL/min.

Dynamic Headspace (Trap) Conditions:
 Instrument: Teledyne Tekmar HT3
 Valve oven temp.: 150°C
 Transfer line temp.: 150°C
 Standby flow rate: 10mL/min.
 Trap standby temp.: 40°C
 Platen/sample temp.: 80°C
 Sample equil. time: 15.00 min.
 Mixer time: 2.00 min.
 Mixing level: 5
 Mixer stabilize time: 0.50 min.
 Sweep flow rate: 75mL/min.
 Sweep flow time: 3.00 min.
 Dry purge time: 5.00 min.
 Dry purge flow: 50mL/min.
 Dry purge temp.: 25°C
 Desorb preheat: 245°C
 Desorb temp.: 250°C
 Desorb time: 1.00 min.
 Trap bake temp.: 300°C
 Trap bake time: 6.00 min.
 Trap bake flow: 450mL/min.