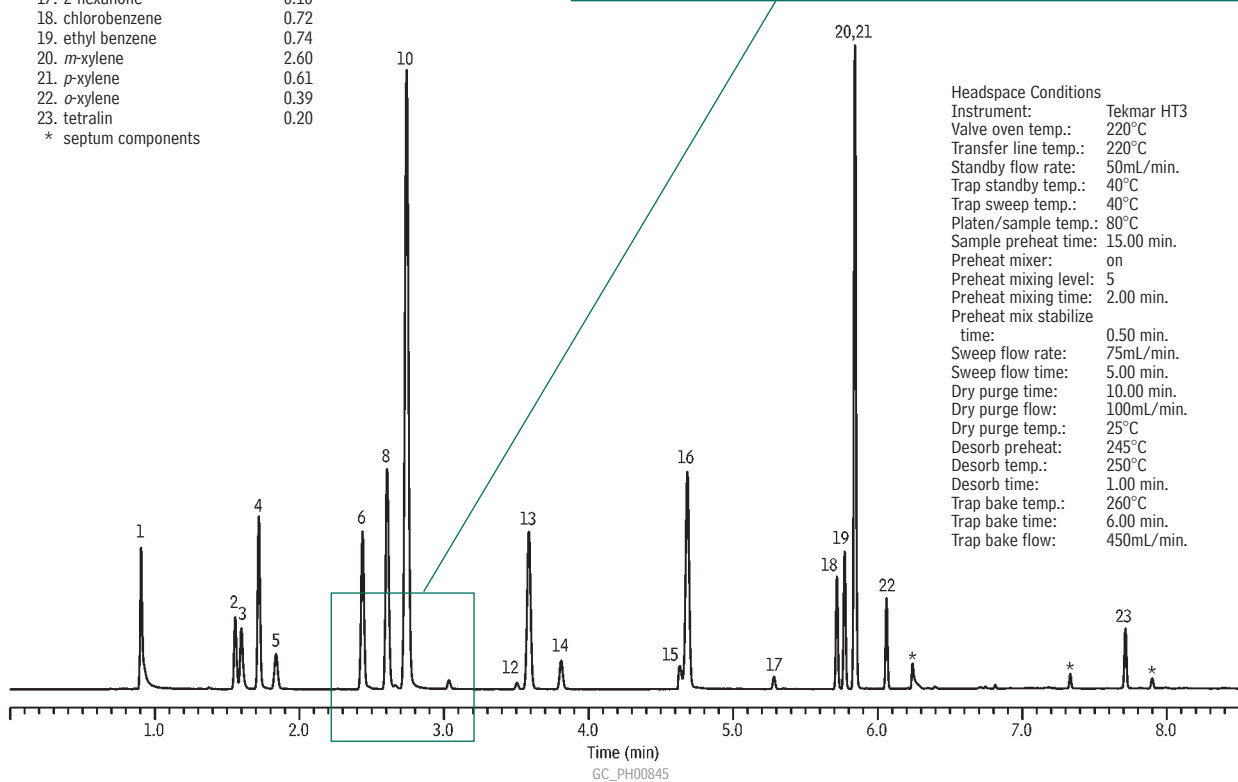
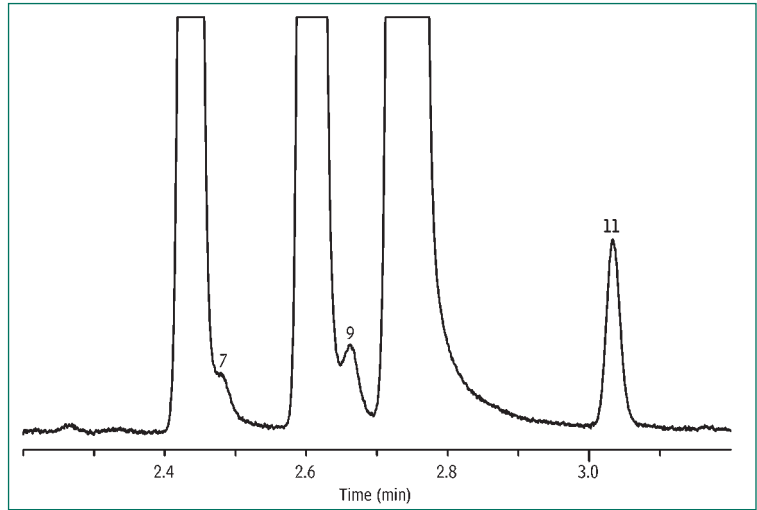


OVI's by Dynamic Headspace and Gerstel MACH Rtx®-624 (G43)

Peak	Concentration (µg added)
1. methanol	6.00
2. acetonitrile	0.82
3. dichloromethane	1.20
4. <i>trans</i> -1,2-dichloroethylene	1.88
5. hexane	0.58
6. <i>cis</i> -1,2-dichloroethylene	1.88
7. nitromethane	0.10
8. tetrahydrofuran	1.38
9. chloroform	0.12
10. cyclohexane	7.76
11. 1,2-dimethoxyethane	0.20
12. trichloroethylene	0.16
13. methylcyclohexane	2.36
14. 1,4-dioxane	0.76
15. pyridine	0.40
16. toluene	1.78
17. 2-hexanone	0.10
18. chlorobenzene	0.72
19. ethyl benzene	0.74
20. <i>m</i> -xylene	2.60
21. <i>p</i> -xylene	0.61
22. <i>o</i> -xylene	0.39
23. tetralin	0.20
* septum components	



Headspace Conditions
 Instrument: Tekmar HT3
 Valve oven temp.: 220°C
 Transfer line temp.: 220°C
 Standby flow rate: 50mL/min.
 Trap standby temp.: 40°C
 Trap sweep temp.: 40°C
 Platen/sample temp.: 80°C
 Sample preheat time: 15.00 min.
 Preheat mixer: on
 Preheat mixing level: 5
 Preheat mixing time: 2.00 min.
 Preheat mix stabilize time: 0.50 min.
 Sweep flow rate: 75mL/min.
 Sweep flow time: 5.00 min.
 Dry purge time: 10.00 min.
 Dry purge flow: 100mL/min.
 Dry purge temp.: 25°C
 Desorb preheat: 245°C
 Desorb temp.: 250°C
 Desorb time: 1.00 min.
 Trap bake temp.: 260°C
 Trap bake time: 6.00 min.
 Trap bake flow: 450mL/min.

Instrument Conditions

Instrument: Agilent 6890 with Gerstel Modular Accelerated Column Heater (MACH)
 Column: Rtx®-624 (G43) 20m, 0.18mm ID, 1.00µm (cat.# 40924) (shown)

Sample: Residual Solvents Class 2 - Mix A (cat.# 36271) and Residual Solvents Class 2 - Mix B (cat.# 36272) diluted in 0.5mL DI water/~0.2g sodium sulfate in 20mL headspace vial; components at varying concentrations

Inj.: headspace trap injection, split ratio 20:1, flow split after injector to two columns, using a 0.32mm ID intermediate polarity deactivated guard column (cat.# 10044) and a "Y" Press-Tight® splitter (cat.# 20405)

Inj. temp.: 220°C

Carrier: helium, constant flow

Flow rate: 0.85mL/min.

Oven temp.: 250°C

Column heater: Gerstel Modular Accelerated Column Heater

Gerstel module

temp.: 50°C (2 min.) to 80°C at 20°C/min. (hold 1 min.), to 200°C at 40°C/min. (hold 2 min.)

Det.: FID at 250°C, hydrogen: 40mL/min., air: 450mL/min., makeup gas: 45mL/min.