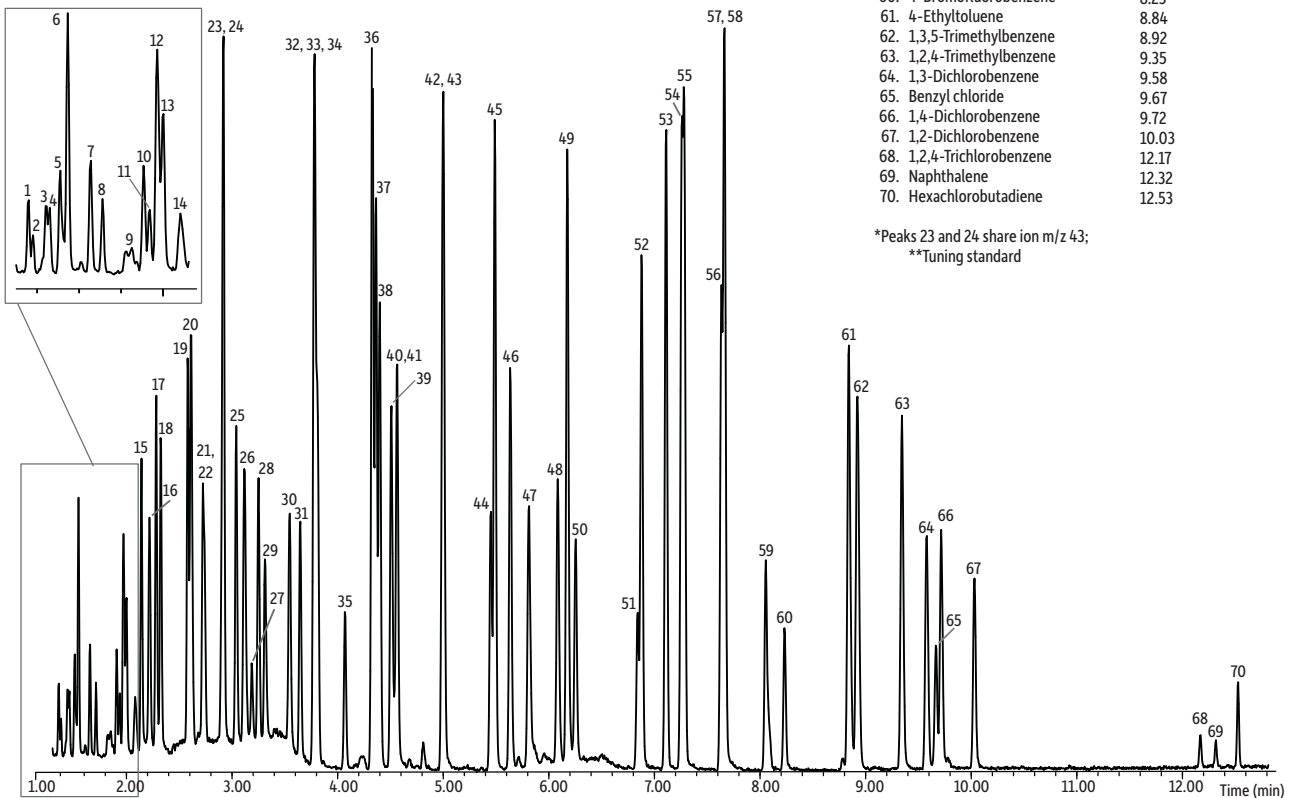


TO-15 65 Component Mix on Rxi®-5Sil MS (30 m, 2.0 mL/min)

Peaks	t _r (min)	Peaks	t _r (min)	Peaks	t _r (min)
1. Propylene	1.36	19. <i>trans</i> -1,2-Dichloroethene	2.58	37. Trichloroethylene	4.37
2. Dichlorodifluoromethane (Freon® 12)	1.38	20. Methyl <i>tert</i> -butyl ether (MTBE)	2.61	38. 1,2-Dichloropropane	4.40
3. Chloromethane	1.45	21. 1,1-Dichloroethane	2.73	39. Methyl methacrylate	4.51
4. 1,2-Dichlorotetrafluoroethane (Freon® 114)	1.46	22. Vinyl acetate	2.74	40. 1,4-Dioxane	4.53
5. Vinyl chloride	1.51	23. 2-Butanone (MEK)*	2.92	41. Bromodichloromethane	4.57
6. 1,3-Butadiene	1.55	24. Hexane*	2.92	42. 4-Methyl-2-pentanone (MIBK)	5.00
7. Bromomethane	1.66	25. <i>cis</i> -1,2-Dichloroethene	3.04	43. <i>cis</i> -1,3-Dichloropropene	5.01
8. Chloroethane	1.71	26. Ethyl acetate	3.12	44. <i>trans</i> -1,3-Dichloropropene	5.45
9. Ethanol	1.83	27. Bromochloromethane (IS)	3.19	45. Toluene	5.49
10. Trichlorofluoromethane (Freon® 11)	1.91	28. Chloroform	3.25	46. 1,1,2-Trichloroethane	5.64
11. Acrolein	1.94	29. Tetrahydrofuran	3.31	47. 2-Hexanone (MBK)	5.81
12. Acetone	1.97	30. 1,1,1-Trichloroethane	3.55	48. Dibromochloromethane	6.09
13. Acetonitrile (contaminant)	2.00	31. 1,2-Dichloroethane	3.65	49. Tetrachloroethene	6.18
14. Isopropyl alcohol	2.09	32. Benzene	3.78	50. 1,2-Dibromoethane	6.26
15. 1,1-Dichloroethene	2.14	33. Carbon tetrachloride	3.79	51. Chlorobenzene-d5 (IS)	6.84
16. 1,1,2-Trichlorotrifluoroethane (Freon® 113)	2.22	34. Cyclohexane	3.81	52. Chlorobenzene	6.88
17. Methylene chloride	2.28	35. 1,4-Difluorobenzene (IS)	4.07	53. Ethylbenzene	7.11
18. Carbon disulfide	2.33	36. Heptane	4.33	54. <i>m</i> -Xylene	7.26
				55. <i>p</i> -Xylene	7.28
				56. Styrene	7.64
				57. <i>o</i> -Xylene	7.66
				58. Bromoform	7.67
				59. 1,1,2,2-Tetrachloroethane	8.06
				60. 4-Bromofluorobenzene**	8.23
				61. 4-Ethyltoluene	8.84
				62. 1,3,5-Trimethylbenzene	8.92
				63. 1,2,4-Trimethylbenzene	9.35
				64. 1,3-Dichlorobenzene	9.58
				65. Benzyl chloride	9.67
				66. 1,4-Dichlorobenzene	9.72
				67. 1,2-Dichlorobenzene	10.03
				68. 1,2,4-Trichlorobenzene	12.17
				69. Naphthalene	12.32
				70. Hexachlorobutadiene	12.53



*Peaks 23 and 24 share ion m/z 43;
**Tuning standard

GC_AR1150

Column Rxi®-5Sil MS, 30 m, 0.32 mm ID, 1.00 µm (cat.# 13654)
Sample TO-15 65 component mix (cat.# 34436)
 TO-14A internal standard/tuning mix (cat.# 34408)
Diluent: Nitrogen
Conc.: 10.0 ppbv 200 cc injection
Injection Oven Direct
Oven Temp: 32 °C (hold 1 min) to 150 °C at 11 °C/min to 230 °C at 33 °C/min
Carrier Gas He, constant flow
Flow Rate: 2.0 mL/min
Linear Velocity: 51 cm/sec @ 32 °C
Detector MS
Mode: Scan
Transfer Line Temp.: 230 °C
Analyzer Type: Quadrupole
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 69.9 eV

Solvent Delay Time: 1.0 min
Tune Type: BFB
Ionization Mode: EI
Scan Range: 35-250 amu
Scan Rate: 3.32 scans/sec
Preconcentrator Nutech 8900DS
Trap 1 Settings
Type/Sorbent: Glass beads
Cooling temp: -155 °C
Preheat temp: 5 °C
Preheat time: 0 sec
Desorb temp: 20 °C
Desorb flow: 5 mL/min
Desorb time: 360 sec
Bakeout temp: 200 °C
Flush flow: 120 mL/min
Flush time: 60 sec
Sweep flow: 120 mL/min
Sweep time: 60 sec
Trap 2 Settings
Type/Sorbent: Tenax®

Cooling temp: -35 °C
Desorb temp: 190 °C
Desorb time: 30 sec
Bakeout temp: 200 °C
Bakeout time: 10 sec
Cryofocuser
Cooling temp: -160 °C
Inject time: 140 sec
Internal Standard
Purge flow: 100 mL/min
Purge time: 6 sec
Vol.: 20 mL
ISTD flow: 100 mL/min
Standard
Size: 200 mL
Purge flow: 100 mL/min
Purge time: 6 sec
Sample flow: 100 mL/min
Instrument HP6890 GC & 5973 MSD
Acknowledgement Nutech