

Volatile Organics

US EPA Method 8260B

Rtx®-VMS

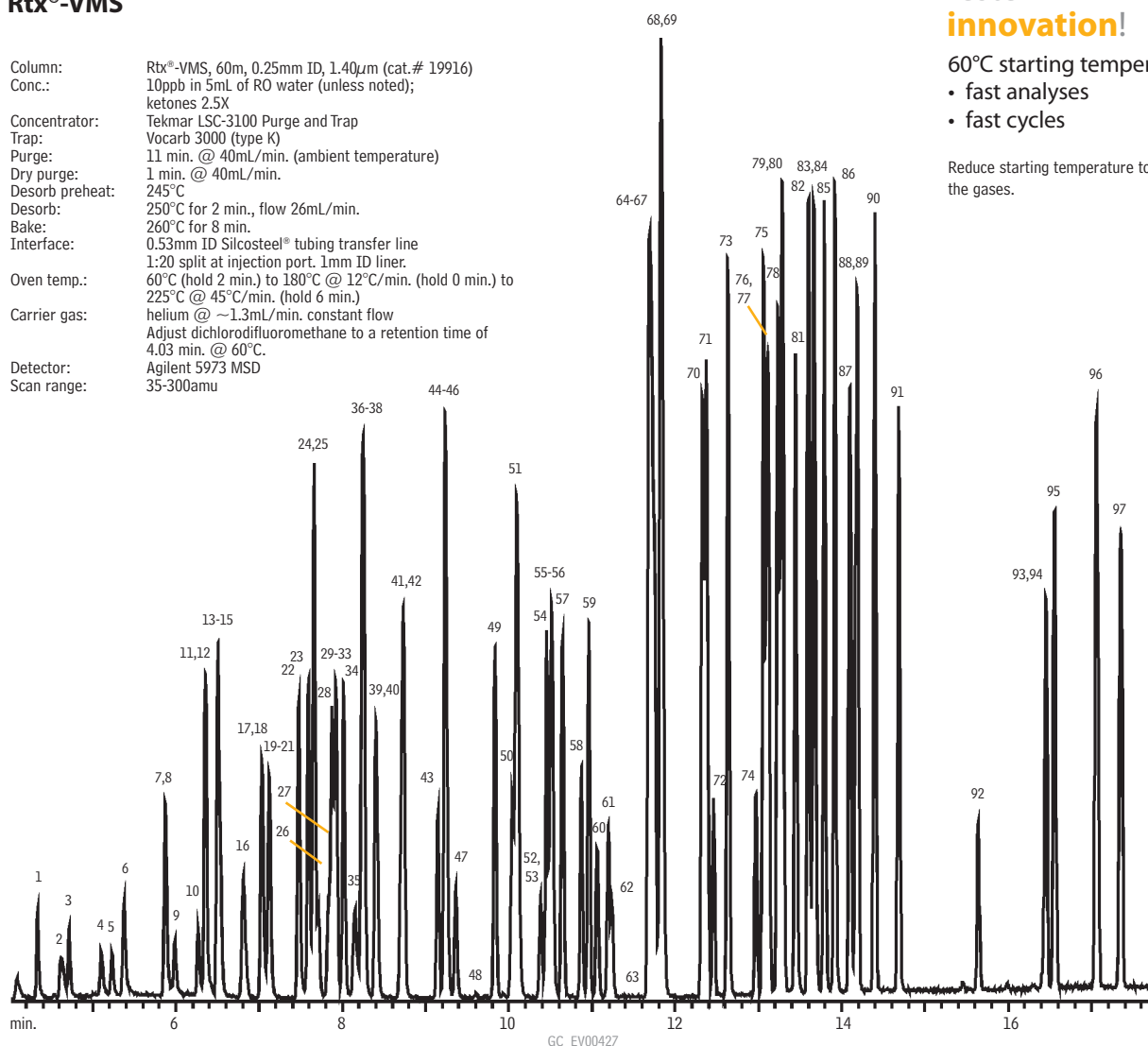
Column: Rtx®-VMS, 60m, 0.25mm ID, 1.40µm (cat.# 19916)
 Conc.: 10ppb in 5mL of RO water (unless noted); ketones 2.5X
 Concentrator: Tekmar LSC-3100 Purge and Trap
 Trap: Vocarb 3000 (type K)
 Purge: 11 min. @ 40mL/min. (ambient temperature)
 Dry purge: 1 min. @ 40mL/min.
 Desorb preheat: 245°C
 Desorb: 250°C for 2 min., flow 26mL/min.
 Bake: 260°C for 8 min.
 Interface: 0.53mm ID Silcosteel® tubing transfer line
 1:20 split at injection port. 1mm ID liner.
 Oven temp.: 60°C (hold 2 min.) to 180°C @ 12°C/min. (hold 0 min.) to 225°C @ 45°C/min. (hold 6 min.)
 Carrier gas: helium @ ~1.3mL/min. constant flow
 Adjust dichlorodifluoromethane to a retention time of 4.03 min. @ 60°C.
 Detector: Agilent 5973 MSD
 Scan range: 35-300amu

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60°C starting temperature

- fast analyses
- fast cycles

Reduce starting temperature to best focus the gases.



1. dichlorodifluoromethane	26. ethyl acetate	51. toluene	76. 1,1,1,2-tetrachloroethane
2. chloromethane	27. methyl acrylate	52. 4-methyl-2-pentanone	77. bromobenzene
3. vinyl chloride	28. propargyl alcohol (500ppb)	53. pyridine (250ppb)	78. 1,3,5-trimethylbenzene
4. bromomethane	29. dibromofluoromethane (SMC)	54. <i>trans</i> -1,3-dichloropropene	79. 2-chlorotoluene
5. chloroethane	30. tetrahydrofuran	55. ethyl methacrylate	80. 1,2,3-trichloropropane
6. trichlorofluoromethane	31. carbon tetrachloride	56. tetrachloroethene	81. 4-chlorotoluene
7. ethanol (2500ppb)	32. 2-butanone	57. 1,1,2-trichloroethane	82. <i>tert</i> -butylbenzene
8. 1,1-dichloroethene	33. 1,1,1-trichloroethane	58. dibromochloromethane	83. 1,2,4-trimethylbenzene
9. carbon disulfide (40ppb)	34. 1,1-dichloropropene	59. 1,3-dichloropropane	84. pentachloroethane
10. allyl chloride	35. pentafluorobenzene (IS)	60. <i>n</i> -butyl acetate	85. <i>sec</i> -butylbenzene
11. methylene chloride	36. <i>tert</i> -amyl methyl ether	61. 1,2-dibromoethane	86. <i>p</i> -isopropyltoluene
12. acetone	37. benzene	62. 2-hexanone	87. 1,3-dichlorobenzene
13. <i>trans</i> -1,2-dichloroethene	38. isobutyl alcohol (500ppb)	63. 2-picoline (250ppb)	88. 1,4-dichlorobenzene-d4 (IS)
14. <i>tert</i> -butyl alcohol (100ppb)	39. 1,2-dichloroethane	64. ethylbenzene	89. 1,4-dichlorobenzene
15. methyl <i>tert</i> -butyl ether	40. isopropyl acetate	65. chlorobenzene-D5 (IS)	90. <i>n</i> -butylbenzene
16. diisopropyl ether	41. 1,4-difluorobenzene (SMC)	66. chlorobenzene	91. 1,2-dichlorobenzene
17. 1,1-dichloroethane	42. trichloroethene	67. 1,1,1,2-tetrachloroethane	92. 1,2-dibromo-3-chloropropane
18. acrylonitrile	43. dibromomethane	68. <i>m</i> -xylene	93. nitrobenzene (250ppb)
19. vinyl acetate*	44. bromodichloromethane	69. <i>p</i> -xylene	94. hexachlorobutadiene
20. allyl alcohol (250ppb)	45. 1,2-dichloropropane	70. <i>o</i> -xylene	95. 1,2,4-trichlorobenzene
21. ethyl- <i>tert</i> -butyl ether*	46. methyl methacrylate	71. styrene	96. naphthalene
22. <i>cis</i> -1,2-dichloroethene	47. <i>n</i> -propyl acetate	72. bromoform	97. 1,2,3-trichlorobenzene
23. 2,2-dichloropropane	48. 2-chloroethanol (2500ppb)	73. isopropylbenzene	
24. bromochloromethane	49. <i>cis</i> -1,3-dichloropropene	74. 4-bromo-1-fluorobenzene (SMC)	
25. chloroform	50. toluene-d8 (SMC)	75. <i>n</i> -propylbenzene	

*Peaks 19 & 21 share an ion (43).

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