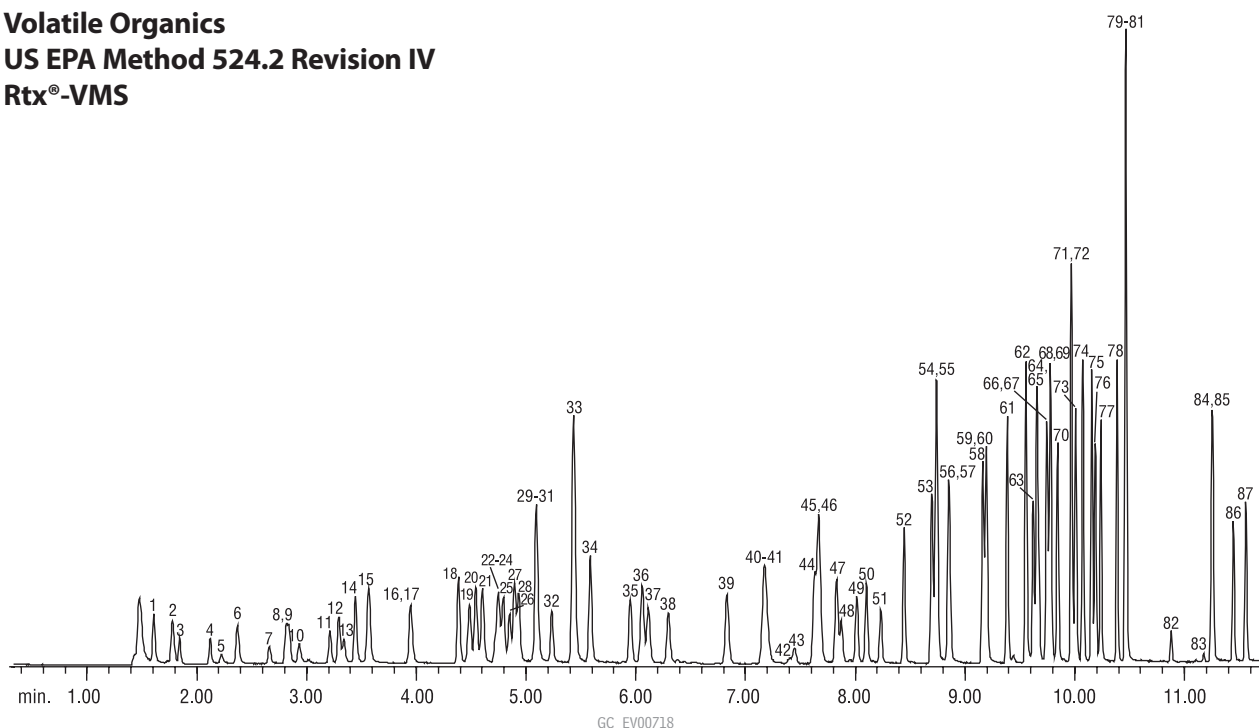


Volatile Organics
US EPA Method 524.2 Revision IV
Rtx®-VMS

**Purge and Trap Conditions:**

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. (MCS bypassed using Silcosteel® tubing)
 Desorb preheat: 245°C
 Desorb: 250°C for 2 min., flow 33mL/min.
 Bake: 260°C for 8 min.
 Interface: Silcosteel® transfer line
 1:30 split at injection port. 1mm ID split inlet liner (cat.# 20972)

Column: Rtx®-VMS, 30m, 0.25mm ID, 1.4µm (cat.# 19915)
 Sample: 502.2 Calibration Mix #1 (cat.# 30042)
 Drinking Water VOA MegaMix®, 524.2 Rev 4 (cat.# 30601)
 524 Internal Standard/Surrogate Mix (cat.# 30201)
 Ketone Mix, EPA Method 524.2 Rev 4.1 (cat.# 30602)
 Compounds at 20 ppb each in 5mL RO water
 (ketones at 50ppb; internal standards at 40ppb)
 Inj. temp.: 250°C
 Carrier gas: helium, constant flow
 Flow rate: 1.1mL/min.
 Dead time: 1.48 min. @ 40°C
 Oven temp.: 40°C (hold 2 min.) to 85°C @ 14°C/min. (hold 2 min.) to 220°C @ 30°C/min. (hold 4 min.).
 Det: Agilent 5971A GC/MS
 Transfer line temp.: 280°C
 Scan range: 35-300amu
 Tune: PFTBA/BFB
 Ionization: EI

1. dichlorodifluoromethane	19. 2,2-dichloropropane	37. bromodichloromethane	55. 1,1,1,2-tetrachloroethane	73. 1,2,4-trimethylbenzene
2. chloromethane	20. bromochloromethane	38. methyl methacrylate	56. <i>m</i> -xylene	74. <i>sec</i> -butylbenzene
3. vinyl chloride	21. chloroform	39. <i>cis</i> -1,3-dichloropropene	57. <i>p</i> -xylene	75. <i>p</i> -isopropyltoluene
4. bromomethane	22. methyl acrylate	40. toluene	58. <i>o</i> -xylene	76. 1,3-dichlorobenzene
5. chloroethane	23. carbon tetrachloride	41. chloroacetonitrile	59. styrene	77. 1,4-dichlorobenzene
6. trichlorofluoromethane	24. tetrahydrofuran	42. 2-nitropropane	60. bromoform	78. <i>n</i> -butylbenzene
7. diethyl ether	25. 1,1,1-trichloroethane	43. 1,1-dichloropropanone	61. isopropylbenzene	79. hexachloroethane
8. 1,1-dichloroethane	26. 2-butanone	44. 4-methyl-2-pentanone	62. 4-bromofluorobenzene	80. 1,2-dichlorobenzene-d4
9. carbon disulfide	27. 1,1-dichloropropene	45. tetrachloroethene	63. bromobenzene	81. 1,2-dichlorobenzene
10. iodomethane	28. 1-chlorobutane	46. <i>trans</i> -1,3-dichloropropene	64. <i>n</i> -propylbenzene	82. 1,2-dibromo-3-chloropropane
11. allyl chloride	29. propionitrile	47. 1,1,2-trichloroethane	65. 1,1,2,2-tetrachloroethane	83. nitrobenzene
12. methylene chloride	30. methacrylonitrile	48. ethyl methacrylate	66. 2-chlorotoluene	84. hexachlorobutadiene
13. acetone	31. benzene	49. dibromochloromethane	67. 1,2,3-trichloropropane	85. 1,2,4-trichlorobenzene
14. <i>trans</i> -1,2-dichloroethene	32. 1,2-dichloroethane	50. 1,3-dichloropropane	68. 1,3,5-trimethylbenzene	86. naphthalene
15. methyl <i>tert</i> -butyl ether	33. fluorobenzene	51. 1,2-dibromoethane	69. <i>trans</i> -1,4-dichloro-2-butene	87. 1,2,3-trichlorobenzene
16. 1,1-dichloroethane	34. trichloroethene	52. 2-hexanone	70. 4-chlorotoluene	
17. acrylonitrile	35. dibromomethane	53. chlorobenzene	71. <i>tert</i> -butylbenzene	
18. <i>cis</i> -1,2-dichloroethene	36. 1,2-dichloropropane	54. ethylbenzene	72. pentachloroethane	

*Peaks 42 & 43 share an ion (43).