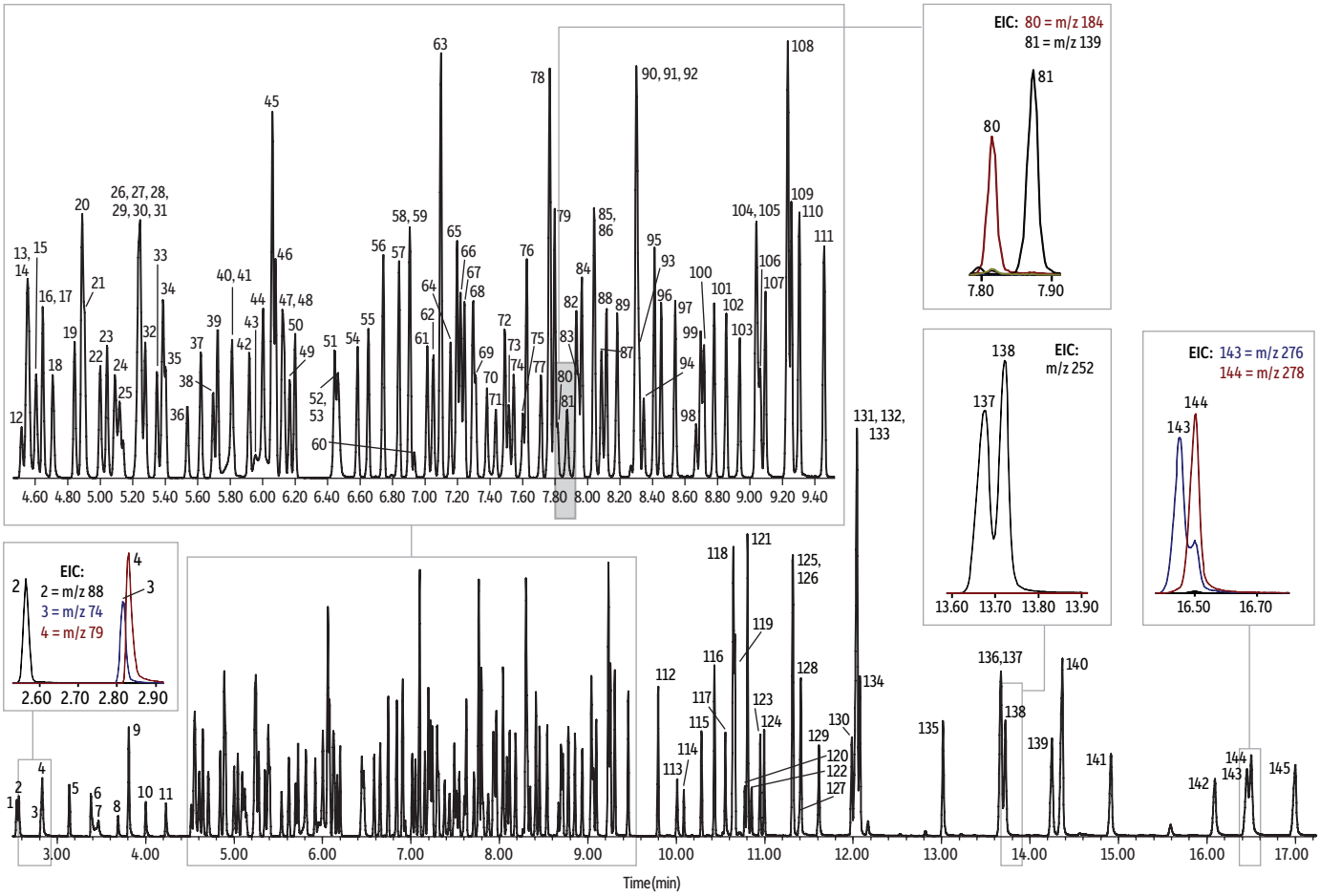
Semivolatile Organics w/Appendix IX on Rxi®-5Sil MS by U.S. EPA Method 8270

Peaks
1. 1,4-Dioxane-d8 (IS)
2. 1,4-Dioxane
3. N-Nitrosodimethylamine
4. Pyridine
5. Ethyl methacrylate
6. 2-Picoline
7. N-Nitrosomethylethylamine
8. Methyl methanesulfonate
9. 2-Fluorophenol (SS)
10. N-Nitrosodiethylamine
11. Ethyl methanesulfonate
12. Benzaldehyde
13. Phenol-d6 (SS)
14. Phenol
15. Aniline
16. Bis(2-chloroethyl) ether
17. Pentachloroethane
18. 2-Chlorophenol
19. 1,3-Dichlorobenzene
20. 1,4-Dichlorobenzene-D4 (IS)
21. 1,4-Dichlorobenzene
22. Benzyl alcohol
23. 1,2-Dichlorobenzene
24. 2-Methylphenol
25. Bis(2-Chloroisopropyl)ether
26. N-Nitrosopyrrolidine
27. 3-Methylphenol
28. 4-Methylphenol
29. Acetophenone
30. N-Nitrosodipropylamine
31. 4-Nitrosomorpholine
32. *o*-Toluidine
33. Hexachloroethane
34. Nitrobenzene-D5 (SS)
35. Nitrobenzene
36. N-Nitrosopiperidine
37. Isophorone
38. 2-Nitrophenol
39. 2,4-Dimethylphenol
40. Bis(2-chloroethoxy)methane
41. Benzoic acid
42. 2,4-Dichlorophenol
43. α,α-Dimethylphenethylamine
44. 1,2,4-Trichlorobenzene
45. Naphthalene-D8 (IS)
46. Naphthalene
47. 4-Chloroaniline
48. 2,6-Dichlorophenol
49. Hexachloropropene
50. Hexachlorobutadiene
51. N-Nitrosobutylamine
52. Caprolactam
53. 1,4-Phenylenediamine
54. 4-Chloro-3-methylphenol
55. Isosafrole (isomer)
56. 2-Methylnaphthalene
57. 1-Methylnaphthalene
58. Hexachlorocyclopentadiene
59. 1,2,4,5-Tetrachlorobenzene
60. Isosafrole (isomer)
61. 2,4,6-Trichlorophenol
62. 2,4,5-Trichlorophenol
63. 2-Fluorobiphenyl (SS)
64. Safrole
65. Biphenyl
66. 2-Chloronaphthalene
67. 1-Chloronaphthalene
68. Diphenyl ether
69. 2-Nitroaniline
70. 1,4-Naphthoquinone
71. 1,4-Dinitrobenzene
72. Dimethyl phthalate
73. 1,3-Dinitrobenzene
74. 2,6-Dinitrotoluene
75. 1,2-Dinitrobenzene
76. Acenaphthylene
77. 3-Nitroaniline
78. Acenaphthene-d10 (IS)
79. Acenaphthene
80. 2,4-Dinitrophenol
81. 4-Nitrophenol
82. Pentachlorobenzene
83. 2,4-Dinitrotoluene
84. Dibenzofuran
85. 1-Naphthalamine
86. 2,3,5,6-Tetrachlorophenol
87. 2,3,4,6-Tetrachlorophenol
88. 2-Naphthalamine
89. Diethyl phthalate
90. 4-Chlorophenyl phenyl ether
91. Fluorene
92. 2-Methyl-5-nitroaniline
93. 4-Nitroaniline
94. 4,6-Dinitro-2-methylphenol
95. N-nitrosodiphenylamine (as Diphenylamine)
96. 1,2-Diphenylhydrazine (as Azobenzene)
97. 2,4,6-Tribromophenol (SS)
98. 1,3,5-Trinitrobenzene
99. Diallate
100. Phenacetin
101. 4-Bromophenyl phenyl ether
102. Hexachlorobenzene
103. Atrazine
104. 4-Aminobiphenyl
105. Pentachlorophenol
106. Pentachloronitrobenzene
107. Propyzamide
108. Phenanthrene-D10 (IS)
109. Phenanthrene
110. Anthracene
111. Carbazole
112. di-*n*-Butyl phthalate
113. 4-Nitroquinoline 1-oxide
114. Methapyriline
115. Isodrin
116. Fluoranthene
117. Benzidine
118. Pyrene-d10 (SS)
119. Pyrene
120. Aramite (isomer)
121. *p*-Terphenyl-d14 (SS)
122. Aramite (isomer)
123. Dimethylaminoazobenzene
124. Chlorobenzilate
125. 3,3'-Dimethylbenzidine
126. Butyl benzyl phthalate
127. Kepone
128. Bis(2-ethylhexyl) adipate
129. 2-Acetylaminofluorine
130. 3,3'-Dichlorobenzidine
131. Benz[a]anthracene
132. Chrysene-D12 (IS)
133. Bis(2-ethylhexyl)phthalate
134. Chrysene
135. Di-*n*-octyl phthalate
136. 7,12-Dimethylbenzo[a] anthracene
137. Benzo[b]fluoranthene
138. Benzo[k]fluoranthene
139. Benzo[a]pyrene
140. Perylene-D12 (IS)
141. 3-Methylcholanthrene
142. Dibenzo[a,j]acridine
143. Indeno[1,2,3-cd]pyrene
144. Dibenz[a,h]anthracene
145. Benzo[ghi]perylene



GC_EV1246

Column Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample 8270 MegaMix® (cat.# 31850)
8270 Benzidines mix (cat.# 31852)
Benzoic acid (cat.# 31879)
Revised B/N surrogate mix (cat.# 31888)
Acid surrogate mix (4/89 SOW) (cat.# 31063)
Revised SV internal standard mix (cat.# 31886)
Appendix IX mix #1 (cat.# 31625)
Appendix IX mix #2 (cat.# 31806)
Diluent: Dichloromethane
Conc.: 10 µg/mL (1,4-Dioxane and IS/SS 20 ug/mL)
Injection
Inj. Vol.: 1 µL pulsed splitless (hold 0.59 min)
Liner: Premium 4 mm single taper/gooseneck w/wool (cat.# 23303.5)

Inj. Temp.: 270 °C
Pulse Pressure: 30 psi (206.8kPa)
Pulse Time: 0.64 min
Purge Flow: 100 mL/min
Oven
Oven Temp: 40 °C (hold 1 min) to 280 °C at 25 °C/min to 320 °C at 5 °C/min (hold 1 min)
Carrier Gas He, constant flow
Flow Rate: 1.2 mL/min
Linear Velocity: 39.723 cm/sec @ 40 °C
Detector MS
Mode: Scan

Transfer Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Temp.: 276 °C
Quad Temp.: 150 °C
Solvent Delay Time: 2.19 min
Tune Type: DFTPP
Ionization Mode: EI
Scan Range: 35-550 amu
Scan Rate: 5.36 scans/sec
Instrument Agilent 7890A GC & 5975C MSD
Notes 7890 Siltek® treated EZ Twist Top® split/splitless injection port (cat.# 22178)
Flip Seal™ dual Vespel® ring inlet seal (cat.# 23411)

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