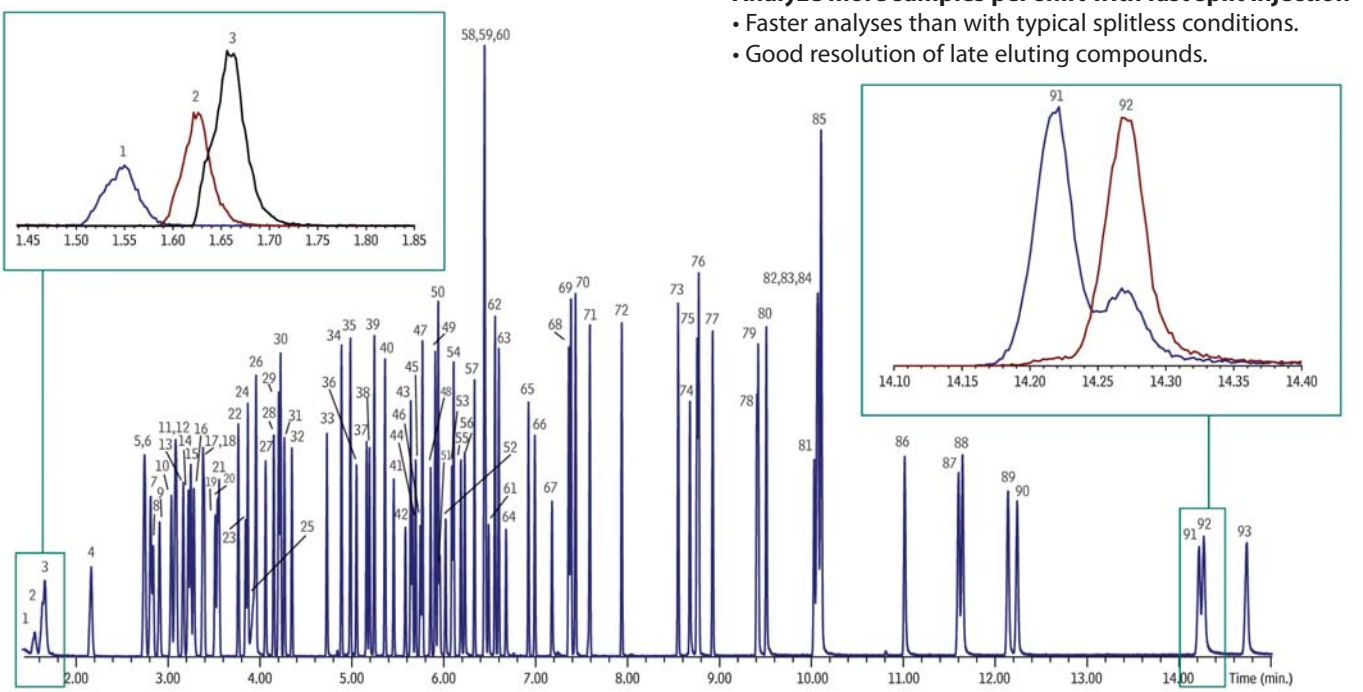
Semivolatiles
EPA Method 8270
Rxi®-5Sil MS (Split Injection)

NEW!

Peaks
1. 1,4-Dioxane
2. N-Nitrosodimethylamine
3. Pyridine
4. 2-Fluorophenol (SS)
5. Phenol-d6 (SS)
6. Phenol
7. Aniline
8. Bis(2-chloroethyl) ether
9. 2-Chlorophenol
10. 1,3-Dichlorobenzene
11. 1,4-Dichlorobenzene-D4 (IS)
12. 1,4-Dichlorobenzene
13. Benzyl Alcohol
14. 1,2-Dichlorobenzene
15. 2-Methylphenol
16. Bis(2-chloroisopropyl) ether
17. 4-Methylphenol/3-Methylphenol
18. N-Nitrosodi-N-propylamine
19. Hexachloroethane
20. Nitrobenzene-D5 (SS)
21. Nitrobenzene
22. Isophorone
23. 2-Nitrophenol
24. 2,4-Dimethylphenol
25. Benzoic acid
26. Bis(2-chloroethoxy)methane
27. 2,4-Dichlorophenol
28. 1,2,4-Trichlorobenzene
29. Naphthalene-D8 (IS)
30. Naphthalene
31. 4-Chloroaniline
32. Hexachlorobutadiene
33. 4-Chloro-3-methylphenol
34. 2-Methylnaphthalene
35. 1-Methylnaphthalene
36. Hexachlorocyclopentadiene
37. 2,4,6-Trichlorophenol
38. 2,4,5-Trichlorophenol
39. 2-Fluorobiphenyl (SS)
40. 2-Chloronaphthalene
41. 2-Nitroaniline
42. 1,4-Dinitrobenzene
43. Dimethyl phthalate
44. 1,3-Dinitrobenzene
45. 2,6-Dinitrotoluene
46. 1,2-Dinitrobenzene
47. Acenaphthylene
48. 3-Nitroaniline
49. Acenaphthene-d10 (IS)
50. Acenaphthene
51. 2,4-Dinitrophenol
52. 4-Nitrophenol
53. 2,4-Dinitrotoluene
54. Dibenzofuran
55. 2,3,5,6-Tetrachlorophenol
56. 2,3,4,6-Tetrachlorophenol
57. Diethyl Phthalate
58. 4-Chlorophenyl phenyl ether
59. Fluorene
60. 4-Nitroaniline
61. 4,6-Dinitro-2-methylphenol
62. N-Nitrosodiphenylamine (Diphenylamine)
63. 1,2-Diphenylhydrazine (as Azobenzene)
64. 2,4,6-Tribromophenol (SS)
65. 4-Bromophenyl phenyl ether
66. Hexachlorobenzene
67. Pentachlorophenol
68. Phenanthrene-D10 (IS)
69. Phenanthrene
70. Anthracene
71. Carbazole
72. di-*n*-Butyl phthalate
73. Fluoranthene
74. Benzidine
75. Pyrene-d10 (SS)
76. Pyrene
77. *p*-Terphenyl-d14 (SS)
78. 3,3'-Dimethylbenzidine
79. Butyl benzyl phthalate
80. Bis(2-ethylhexyl) adipate
81. 3,3'-Dichlorobenzidine
82. Benz[a]anthracene
83. Bis(2-ethylhexyl)phthalate
84. Chrysene-D12 (IS)
85. Chrysene
86. Di-*n*-octyl phthalate
87. Benzo[b]fluoranthene
88. Benzo[k]fluoranthene
89. Benzo[a]pyrene
90. Perylene-D12 (IS)
91. Dibenz[a,h]anthracene
92. Indeno[1,2,3-cd]pyrene
93. Benzo[ghi]perylene

Great peak shape for early eluters—even with 80°C initial oven temp!

Analyze more samples per shift with fast split injection
- Faster analyses than with typical splitless conditions.
- Good resolution of late eluting compounds.



GC_EV1182

Column Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample 8270 MegaMix® (cat.# 31850)
Benzoic acid (cat.# 31879)
8270 Benzidines Mix (cat.# 31852)
Acid Surrogate Mix (4/89 SOW) (cat.# 31025)
1,4-dioxane (cat.# 31853)
Revised B/N Surrogate Mix (cat.# 31887)
SV Internal Standard Mix (cat.# 31206)
Diluent: Methylene chloride
Conc.: 40 µg/mL (4 ng on-column)
Injection
Inj. Vol.: 1.0 µL split (split ratio 10:1)
Liner: 4mm Split Precision® Liner w/ Semivolatiles Wool (cat.# 21023-231.5)
Inj. Temp.: 270 °C
Split Vent
Flow Rate: 60 mL/min.

Oven
Oven Temp: 80 °C (hold 1 min.) to 280 °C at 25 °C/min. to 320 °C at 5 °C/min.
Carrier Gas He, constant flow
Flow Rate: 1.2 mL/min.
Detector MS
Mode: Scan
Transfer
Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Temp.: 250 °C
Quad Temp.: 150 °C
Tune Type: DFTPP
Ionization Mode: EI
Scan Range: 35-400 amu
Instrument Agilent 7890A GC & 5975C MSD