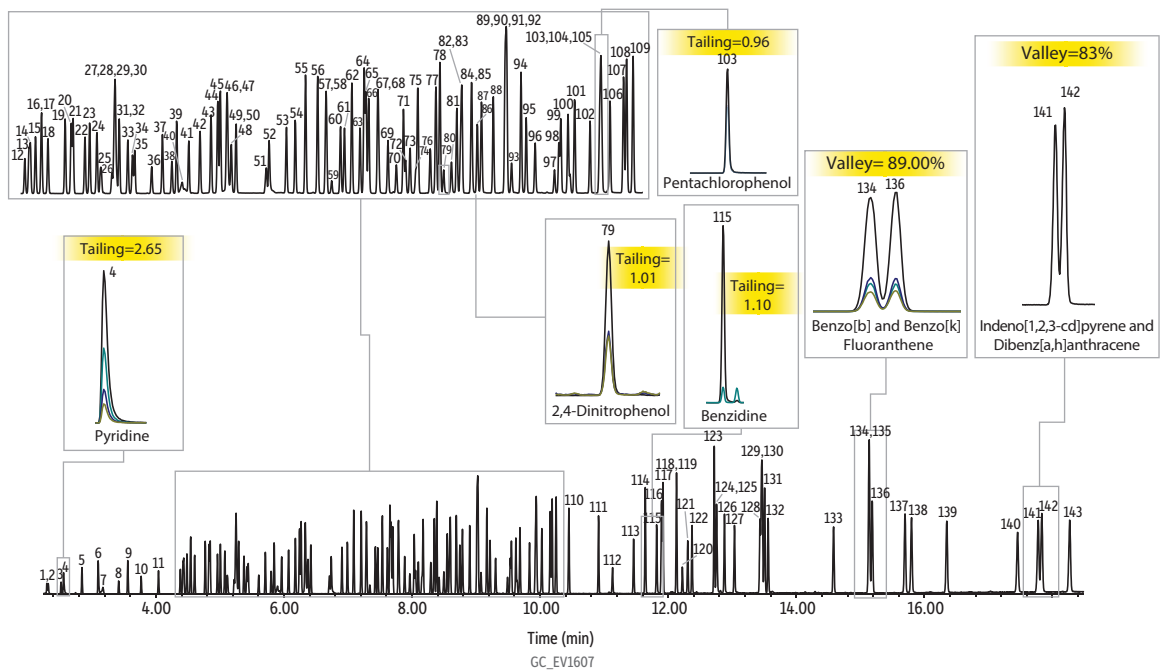


# Semivolatiles Analysis on Rxi-SVOCms

- Ensure accuracy and sensitivity with good peak shape, response, and resolution.
- Highly inert, ultra-low bleed column provides excellent results for active compounds at trace levels.
- Increase productivity with stable calibrations and consistent column-to-column performance.



Peaks	tr (min)	Peaks	tr (min)	Peaks	tr (min)	Peaks	tr (min)	Peaks	tr (min)
1. (IS) 1,4-Dioxane-d8	2.30	30. Acetophenone	5.25	58. 1,2,4,5-Tetrachlorobenzene	7.29	87. 2-Naphthalamine	8.79	116. (SS) Pyrene-D10	11.90
2. 1,4-Dioxane	2.32	31. 4-Nitrosomorpholine	5.27	59. Isosafrole	7.34	88. Diethyl phthalate	8.90	117. Pyrene	11.92
3. N-Nitrosodimethylamine	2.52	32. o-Toluidine	5.29	60. 2,4,6-Trichlorophenol	7.43	89. Fluorene	9.01	118. (SS) p-Terphenyl-d14	12.13
4. Pyridine	2.56	33. Hexachloroethane	5.37	61. 2,4,5-Trichlorophenol	7.47	90. 4-Chlorophenyl phenyl ether	9.03	119. Aramite-1	12.13
5. Ethyl methacrylate	2.85	34. (SS) Nitrobenzene-D5	5.42	62. (SS) 2-Fluorobiphenyl	7.54	91. 2-Methyl-5-nitroaniline	9.03	120. Aramite-2	12.22
6. 2-Picoline	3.10	35. Nitrobenzene	5.44	63. Safrole	7.62	92. 4-Nitroaniline	9.03	121. Dimethylaminoazobenzene	12.31
7. N-Nitrosomethylethylamine	3.16	36. N-Nitrosopiperidine	5.60	64. Biphenyl	7.65	93. 4,6-Dinitro-2-methylphenol	9.08	122. 4,4'-Dichlorobenzilate	12.37
8. Methyl methanesulfonate	3.42	37. Isophorone	5.71	65. 2-Chloronaphthalene	7.67	94. N-Nitrosodiphenylamine	9.17	123. 3,3'-Dimethylbenzidine	12.72
9. (SS) 2-Fluorophenol	3.56	38. 2-Nitrophenol	5.80	66. 1-Chloronaphthalene	7.70	95. N,N-Diphenylhydrazine	9.22	124. Butyl benzyl phthalate	12.75
10. N-Nitrosodiethylamine	3.77	39. 2,4-Dimethylphenol	5.85	67. Diphenyl ether	7.79	96. (SS) 2,4,6-Tribromophenol	9.30	125. Kepone	12.77
11. Ethyl methanesulfonate	4.04	40. Benzoic acid	5.91	68. 2-Nitroaniline	7.79	97. 1,3,5-Trinitrobenzene	9.49	126. Bis(2-ethylhexyl) adipate	12.88
12. Benzaldehyde	4.38	41. Bis(2-chloroethoxy)methane	5.96	69. 1,4-Naphthoquinone	7.88	98. Diolate	9.54	127. 2-(Acetylamino)fluorene	13.04
13. (SS) Phenol-d6	4.42	42. 2,4-Dichlorophenol	6.07	70. 1,2-Dinitrobenzene	7.97	99. Phenacetin	9.55	128. 3,3'-Dichlorobenzidine	13.43
14. Phenol	4.44	43. 1,2,4-Trichlorobenzene	6.18	71. Dimethyl phthalate	8.03	100. 4-Bromophenyl phenyl ether	9.62	129. Benz[a]anthracene	13.46
15. Aniline	4.48	44. (IS) Naphthalene-D8	6.24	72. 1,3-Dinitrobenzene	8.05	101. Hexachlorobenzene	9.69	130. (IS) Chrysene-D12	13.47
16. Bis(2-chloroethyl) ether	4.54	45. Naphthalene	6.27	73. 2,6-Dinitrotoluene	8.10	102. Atrazine	9.83	131. Chrysene	13.51
17. Pentachloroethane	4.54	46. 4-Chloroaniline	6.33	74. 1,4-Dinitrobenzene	8.15	103. Pentachlorophenol	9.93	132. Bis(2-ethylhexyl) phthalate	13.56
18. 2-Chlorophenol	4.60	47. 2,6-Dichlorophenol	6.34	75. Acenaphthylene	8.17	104. 4-Aminobiphenyl	9.94	133. Di-n-octyl phthalate	14.58
19. 1,3-Dichlorobenzene	4.77	48. Hexachloropropene	6.37	76. 3-Nitroaniline	8.29	105. Pentachloronitrobenzene	9.94	134. Benzo[b]fluoranthene	15.14
20. (IS) 1,4-Dichlorobenzene-D4	4.83	49. Hexachlorobutadiene	6.42	77. (IS) Acenaphthene-d10	8.35	106. Propylamide	10.03	135. 7,12-Dimethylbenzo[a]anthracene	15.14
21. 1,4-Dichlorobenzene	4.85	50. α,α-Dimethylphenethylamine	6.43	78. Acenaphthene	8.39	107. (IS) Phenanthrene-D10	10.16		15.14
22. Benzyl alcohol	4.96	51. Caprolactam	6.71	79. 2,4-Dinitrophenol	8.42	108. Phenanthrene	10.19	136. Benzo[k]fluoranthene	15.19
23. 1,2-Dichlorobenzene	5.01	52. N-Nitroso-N-butylamine	6.74	80. 4-Nitrophenol	8.50	109. Anthracene	10.25	137. Benzo[a]pyrene	15.70
24. 2-Methylphenol	5.08	53. 4-Chloro-3-methylphenol	6.91	81. Pentachlorobenzene	8.55	110. Carbazole	10.45	138. (IS) Perylene-D12	15.80
25. Bis(2-chloroisopropyl)ether	5.12	54. Isosafrole	6.99	82. 2,4-Dinitrotoluene	8.58	111. di-n-Butyl phthalate	10.91	139. 3-Methylcholanthrene	16.35
26. Nitrosopyrrolidine	5.22	55. 2-Methylnaphthalene	7.09	83. Dibenzofuran	8.60	112. 4-Nitroquinoline 1-oxide	11.13	140. Dibenzo[a,j]acridine	17.46
27. 4-Methylphenol	5.24	56. 1-Methylnaphthalene	7.21	84. 1-Naphthalamine	8.69	113. Isodrin	11.46	141. Indeno[1,2,3-cd]pyrene	17.78
28. 3-Methylphenol	5.24	57. Hexachlorocyclopentadiene	7.28	85. 2,3,5,6-Tetrachlorophenol	8.69	114. Fluoranthene	11.64	142. Dibenzo[a,h]anthracene	17.84
29. N-Nitrosodi-N-propylamine	5.25			86. 2,3,4,6-Tetrachlorophenol	8.75	115. Benzidine	11.82	143. Benzo[ghi]perylene	18.27

<b>Column</b>	Rxi-SVOCms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 16623)	<b>Scan Program:</b>	
<b>Standard/Sample</b>	Revised SV internal standard mix (cat.# 31886) Revised B/N surrogate mix (cat.# 31888) Acid surrogate mix (cat.# 31063) 8270 MegaMix standard (cat.# 31850) 8270 Benzidines mix (cat.# 31852) Benzoic acid (cat.# 31879) Appendix IX mix #1, Revised (cat.# 32459) Appendix IX mix #2 (cat.# 31806)		
<b>Diluent:</b>	Dichloromethane	<b>Transfer Line Temp.:</b>	280 °C
<b>Conc.:</b>	20 ng/µL	<b>Analyzer Type:</b>	Quadrupole
<b>Injection</b>		<b>Source Type:</b>	Extractor
<b>Inj. Vol.:</b>	1 µL split (split ratio 10:1)	<b>Extractor Lens:</b>	6 mm ID
<b>Liner:</b>	Topaz 4.0 mm ID single taper inlet liner with wool (cat.# 23303)	<b>Source Temp.:</b>	330 °C
<b>Inj. Temp.:</b>	250 °C	<b>Quad Temp.:</b>	150 °C
<b>Split Vent Flow Rate:</b>	12 mL/min	<b>Electron Energy:</b>	70 eV
<b>Oven</b>		<b>Solvent Delay Time:</b>	1.55 min
<b>Oven Temp.:</b>	40 °C (hold 0.5 min) to 280 °C at 20 °C/min to 330 °C at 6 °C/min (hold 4 min)	<b>Tune Type:</b>	DFTPP
<b>Carrier Gas</b>	He, constant flow	<b>Ionization Mode:</b>	EI
<b>Flow Rate:</b>	1.2 mL/min	<b>Instrument</b>	Agilent 7890B GC & 5977A MSD
<b>Detector</b>	MS	<b>Sample Preparation</b>	Samples were aliquoted into amber 2 mL, 9 mm short-cap, screw-thread vials (cat.# 21143) containing glass Big Mouth inserts (cat.# 21782) and sealed with 2.0 mL, 9 mm short-cap, screw-vial closures (cat.# 23842).
<b>Mode:</b>	Scan		