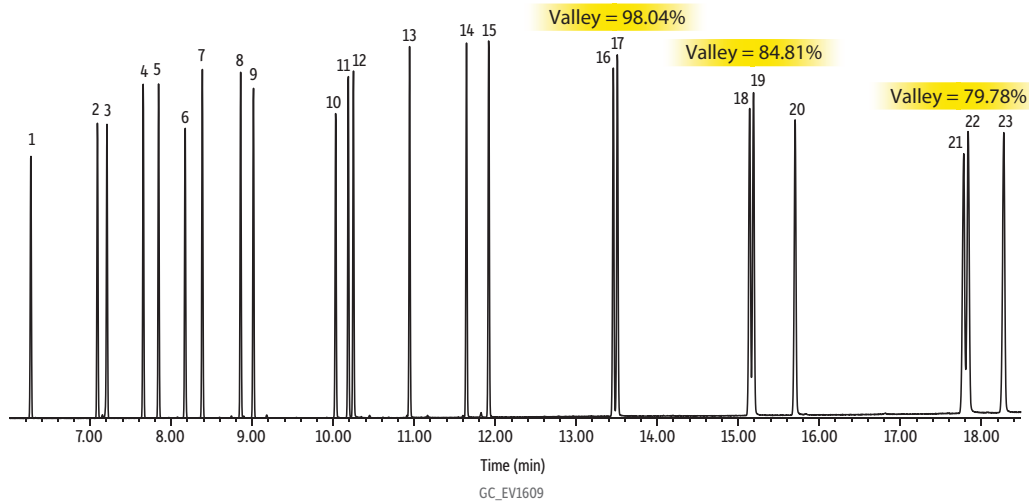


Priority PAH Pollutants on Rxi-SVOCms (SIM)

- Excellent resolution of critical polycyclic aromatic hydrocarbons.



Peaks	tr (min)
1. Naphthalene	6.27
2. 2-Methylnaphthalene	7.09
3. 1-Methylnaphthalene	7.20
4. Biphenyl	7.65
5. 2,6-Dimethylnaphthalene	7.84
6. Acenaphthylene	8.17
7. Acenaphthene	8.38
8. 2,3,5-Trimethylnaphthalene	8.85
9. Fluorene	9.01
10. Dibenzothiophene	10.02
11. Phenanthrene	10.18
12. Anthracene	10.24
13. 1-Methylphenanthrene	10.94
14. Fluoranthene	11.64
15. Pyrene	11.91
16. Benz[a]anthracene	13.45
17. Chrysene	13.50
18. Benzo[b]fluoranthene	15.13
19. Benzo[k]fluoranthene	15.18
20. Benzo[a]pyrene	15.69
21. Indeno[1,2,3-cd]pyrene	17.77
22. Dibenzo[a,h]anthracene	17.82
23. Benzo[ghi]perylene	18.26

The internal standard and surrogate standard mass on column is 20 pg.

Column Rxi-SVOCms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 16623)
Standard/Sample Custom PAH SIM standard
Diluent: Dichloromethane
Conc.: 40 µg/mL
Injection
Inj. Vol.: 1 µL split (split ratio 20:1)
Liner: Topaz 4.0 mm ID single taper inlet liner with wool (cat.# 23303)
Inj. Temp.: 250 °C
Split Vent Flow Rate: 24 mL/min
Oven
Oven Temp.: 40 °C (hold 0.5 min) to 280 °C at 20 °C/min to 330 °C at 6 °C/min (hold 4 min)
Carrier Gas
Flow Rate: He, constant flow
 1.2 mL/min
Detector
Mode: MS
SIM Program: SIM

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	5.00	127.05, 128.05, 129.00	25
2	6.75	115.10, 139.00, 141.00, 142.05	25
3	7.47	141.00, 152.00, 153.05, 154.05, 155.05, 156.10, 162.10, 164.10	15
4	8.03	150.00, 151.05, 152.05, 153.05, 154.10, 162.10, 164.10	15
5	8.66	153.05, 155.10, 163.05, 164.10, 165.05, 166.05, 169.10, 170.10	15
6	9.62	139.00, 151.95, 176.10, 177.10, 178.10, 179.10, 183.95, 185.00, 188.10, 189.10	15
7	10.71	189.05, 190.05, 191.10, 192.10	25
8	11.37	200.10, 201.10, 202.10, 203.05	20
9	11.81	200.10, 201.05, 202.05, 203.05	20
10	12.84	114.00, 120.00, 226.10, 227.10, 228.10, 229.10, 240.10	15
11	14.48	126.00, 132.00, 250.10, 252.10, 253.10, 264.00	15
12	15.51	126.00, 132.00, 250.05, 252.05, 253.05, 264.00	20
13	16.95	134.50, 137.95, 139.00, 274.05, 276.10, 277.10, 278.10, 279.10	20
14	18.10	138.00, 139.00, 274.05, 276.10, 277.10, 278.10	25
15	18.80	150.00, 151.00, 156.00, 600.00, 302.00, 312.00	25

Transfer Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Extractor Lens: 6 mm ID
Source Temp.: 330 °C
Quad Temp.: 150 °C
Tune Type: DFTPP
Ionization Mode: EI
Instrument Agilent 7890B GC & 5977A MSD
Sample Preparation 200 ppm standard diluted 5x, then analyzed at 20:1 split. 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).