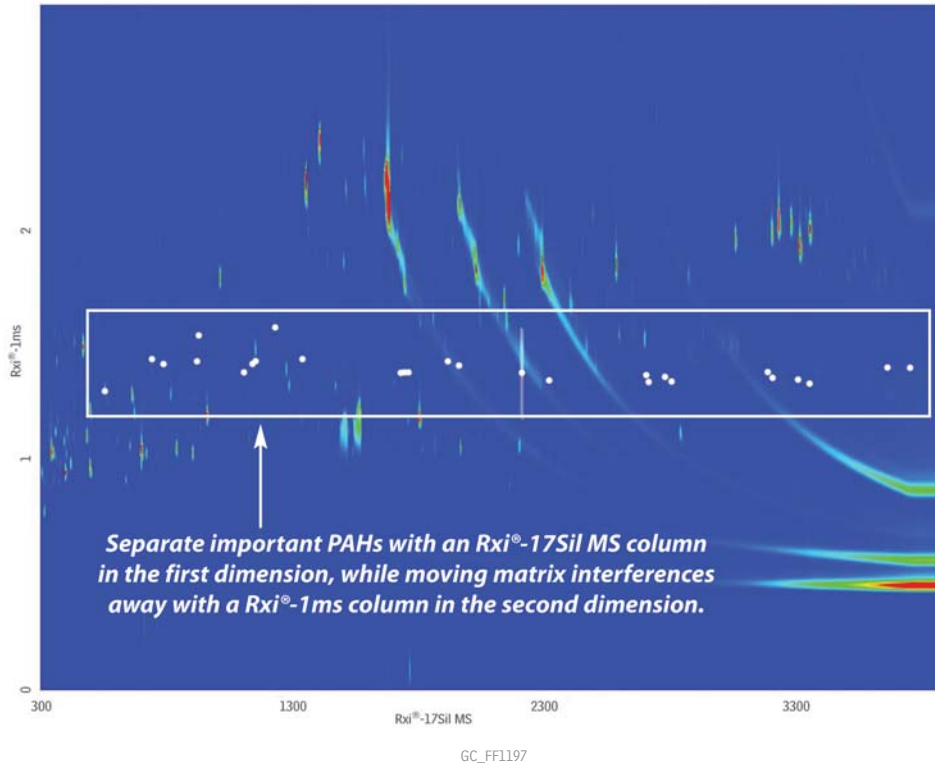


QuEChERS Extract of NIST SRM 2974a Freeze-Dried Mussel Tissue (GCxGC contour plot)



- Peaks**
1. Naphthalene
 2. 2-Methylnaphthalene
 3. 1-Methylnaphthalene
 4. Biphenyl
 5. 2,6-Dimethylnaphthalene
 6. Acenaphthylene
 7. Acenaphthene
 8. 2,3,5-Trimethylnaphthalene
 9. Fluorene
 10. Phenanthrene
 11. Anthracene
 12. 1-Methylphenanthrene
 13. Fluoranthene
 14. Pyrene
 15. Benzo(a)anthracene
 16. Chrysene
 17. Benzo(b)fluoranthene
 18. Benzo(k)fluoranthene
 19. Benzo(j)fluoranthene
 20. Benzo(e)pyrene
 21. Benzo(a)pyrene
 22. Perylene
 23. Dibenz(a,h)anthracene
 24. Indeno(1,2,3-cd)pyrene
 25. Benzo(ghi)perylene

Column Rxi®-17Sil MS 30 m, 0.25 mm ID, 0.25 μ m (cat.# 14123)
Rxi®-1ms 1.2 m, 0.15 mm ID, 0.15 μ m (cat.# custom)

Sample NIST SRM 2974a freeze-dried mussel tissue with incurred residues

Diluent: Acetonitrile

Injection
Inj. Vol.: 1 μ L splitless (hold 1 min.)
Liner: Gooseneck Splitless (4mm) w/Semivolatiles Wool (cat.# 20798-231.1)
Inj. Temp.: 250 °C
Purge Flow: 40 mL/min.

Oven
Oven Temp: Rxi®-17Sil MS: 90 °C (hold 1 min.) to 320 °C at 3.75 °C/min. (hold 2.67 min.)
Rxi®-1ms: 95 °C (hold 1 min.) to 325 °C at 3.75 °C/min. (hold 2.67 min.)
He

Carrier Gas
Modulation
Modulator Temp. Offset: 20 °C
Second Dimension Separation Time: 3 sec.
Hot Pulse Time: 0.9 sec.
Cool Time between Stages: 0.6 sec.

Detector
Transfer Line Temp.: 300 °C
Analyzer Type: TOF
Source Temp.: 250 °C
Electron Energy: 70 eV
Mass Defect: -20 mu/100 u
Solvent Delay Time: 5 min.
Tune Type: PFTBA
Ionization Mode: EI
Acquisition Range: 45 to 550 amu
Spectral Acquisition Rate: 100 spectra/sec

Instrument LECO Pegasus 4D GCxGC-TOFMS

Notes PAHs (shown in box) elute in a relatively narrow band and are identified by the white peak marker dots.