

PAHs in Sediment Extract on Rxi®-PAH (Sampled From Spring Creek, PA)

Peaks

1. Phenanthrene
2. Anthracene
3. Fluoranthene
4. Pyrene
5. Benz[a]anthracene
6. Chrysene

Peaks

7. Benzo[b]fluoranthene
8. Benzo[a]pyrene
9. Indeno[1,2,3-cd]pyrene
10. Benzo[ghi]perylene
11. Coronene
12. Dibenzo[a,h]pyrene

Column

Rxi®-PAH, 60 m, 0.25 mm ID, 0.10 µm (cat.# 49317)

Injection

Inj. Vol.: 1 µL split (split ratio 10:1)
 Liner: Premium 4 mm Precision® liner w/wool (cat.# 23305.5)
 Inj. Temp.: 300 °C

Split Vent Flow

Rate: 20 mL/min

Oven

Oven Temp.: 80 °C (hold 1 min) to 350 °C at 3.7 °C/min (hold 21 min)

Carrier Gas

He, constant flow

Flow Rate: 2 mL/min

Detector

Transfer Line

Temp.: 320 °C

Analyzer Type: TOF

Source Temp.: 300 °C

Electron Energy: 70 eV

Mass Defect: 0 mu/100 u

Solvent Delay

Time: 6 min

Tune Type: PFTBA

Ionization Mode: EI

Acquisition Range: 45-550 amu

Spectral Acquisition

Rate: 5 spectra/sec

Instrument

Acknowledgement

LECO Pegasus 4D GCxGC-TOFMS
 Frank Dorman and Melinda Pham of The Pennsylvania State University for providing the sediment extract.

- = m/z 178
- = m/z 202
- = m/z 228
- = m/z 252
- = m/z 276
- = m/z 300
- = m/z 302

