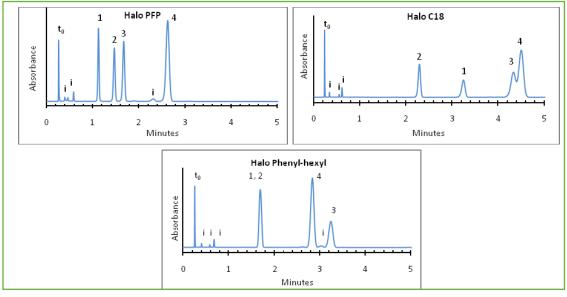
# HALO

### ENVIRONMENTAL



# Separation of Neutral Aromatics on HALO® PFP, C18 and Phenyl-Hexyl

Application Note 23-N



#### **PEAK IDENTITIES:**

- 1. Butylbenzene
- 2. Acenaphthene
- 3. 1-Phenylnaphthalene
- 4. Pyrene
- i = impurities

The separation of nonpolar aromatic compounds on these three HALO® bonded phases under the same conditions show differences in selectivity that can be utilized in optimizing difficult separations.

#### **TEST CONDITIONS:**

## **STRUCTURES:**

#### Columns:

1) HALO 90 Å PFP, 2.7 μm, 4.6 x 50 mm

Part Number: 92814-409

2) HALO 90 Å C18, 2.7 μm, 4.6 x 50 mm

Part Number: 92814-402

3) HALO 90 Å Phenyl-Hexyl, 2.7 μm, 4.6 x 50 mm

Part Number: 92814-406

Mobile Phase: 30/70 - A/B

A: Water B: Methanol Flow Rate: 2.0 mL/min Pressure: ~250 bar Temperature: 40 °C

Detection: UV 254 nm, VWD Injection Volume: 1.0 μL Sample Solvent: Methanol Response Time: 0.02 sec Flow Cell: 2.5 μL semi-micro

LC System: Shimadzu Prominence UFLC XR

Extra Column Volume: ~14 µL



Butylbenzene



Acenaphthene



1-Phenylnaphthalene



Pyrene