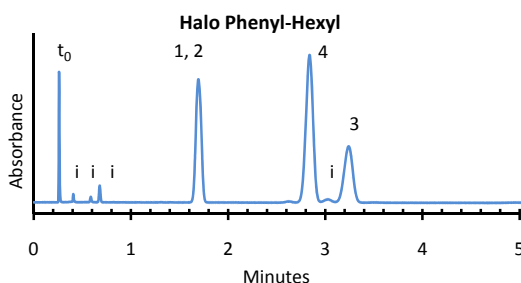
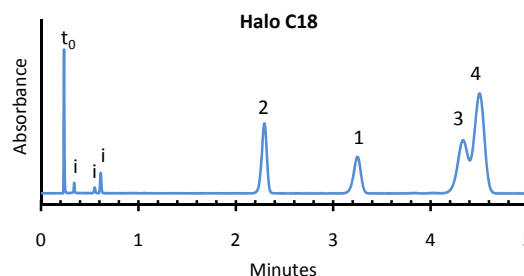
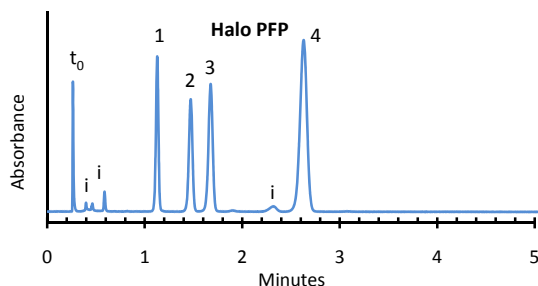


Application Note: 23-N

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



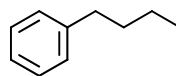
### PEAK IDENTITIES:

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

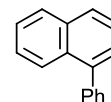
### TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO PFP, C18, Phenyl-Hexyl  
 Part Numbers: 92814-409, -402, -406, resp.  
 Mobile Phase: 30/70-water/methanol  
 Flow Rate: 2.0 mL/min.  
 Pressure: approximately 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

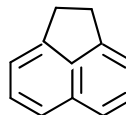
### STRUCTURES:



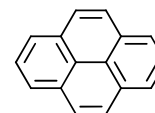
Butylbenzene



1-Phenylnaphthalene



Acenaphthene



Pyrene

The separation of non-polar aromatic compounds on these three Halo bonded phases under the same conditions show differences in selectivity that can be utilized in optimizing difficult separations.

