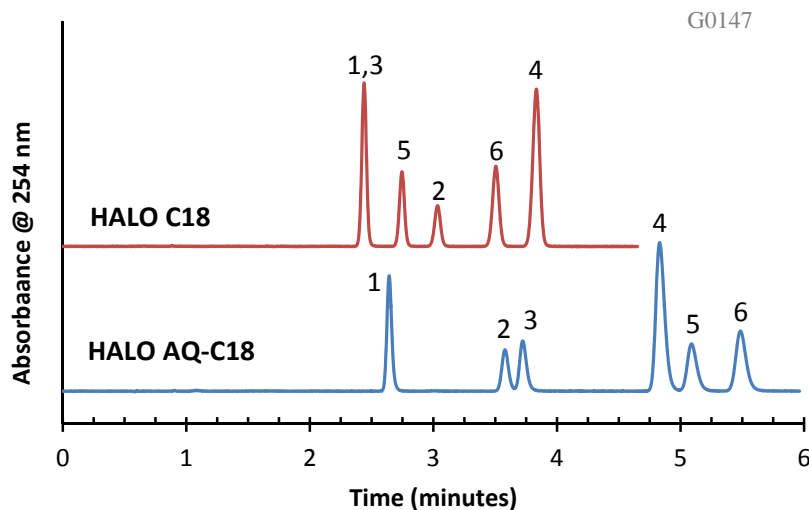


Separation of Polar Samples on HALO AQ-C18 and C18



PEAK IDENTITIES:

1. Cinnamyl alcohol
2. 4'-Bromoacetanilide
3. Nitrobenzene
4. Anisole
5. 3,4-Dinitrotoluene
6. 2,4-Dinitrotoluene

TEST CONDITIONS:

Columns: HALO C18, 4.6 x 100 mm, 2.7 μ m
 HALO AQ-C18, 4.6 x 100 mm, 2.7 μ m

Part Numbers: 92814-602
 92814-622

Mobile Phase: 48/52 (v:v): A/B

A = water

B = methanol

Flow Rate: 1.4 mL/min.

Pressure: HALO C18: 344 bar

HALO AQ-C18: 329 bar

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 0.5 μ L

Sample Solvent: methanol

Response Time: 0.02 sec.

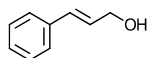
Data rate: 25 Hz.

Flow Cell: 2.5 μ L semi-micro

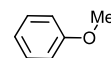
LC System: Shimadzu Prominence UFLC XR

ECV: ~14 μ L

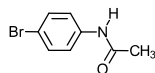
STRUCTURES:



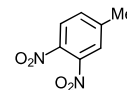
Cinnamyl alcohol



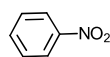
Anisole



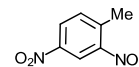
4'-Bromoacetanilide



3,4-Dinitrotoluene



Nitrobenzene



2,4-Dinitrotoluene

HALO AQ-C18 and HALO C18 phases have different selectivities as shown in the chromatograms above. The HALO AQ-C18 phase delivers increased retention for polar molecules compared to C18.