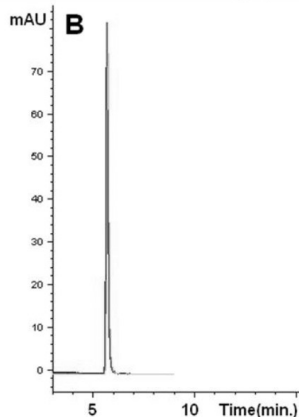
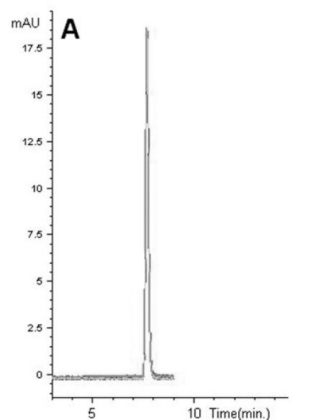
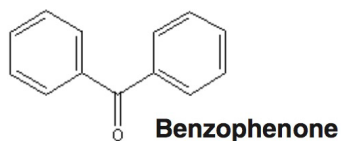


Using a TYPE-C Column For Routine Reverse Phase Benzophenone



Notes: When the percent of acetonitrile increases (from 70% in A to 80% in B) then the retention time of benzophenone (hydrophobic non ionic compound) decreases.

Method Conditions

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: A: 70% Acetonitrile/ 30% DI H₂O
B: 80% Acetonitrile/ 20% DI H₂O

Injection vol.: 1µL

Flow rate: 0.5 mL/min

Detection: UV 254 nm

Sample: Stock Solution: Benzophenone, 0.1 mg in the mobile phase

Discussion

Benzophenone, a hydrophobic non ionic compound, was selected to illustrate the excellent RP-HPLC properties of Cogent TYPE-C bonded phases. The results achieved regarding reproducibility, efficiency and peak symmetry were excellent. Each figure represents ten consecutive injections.