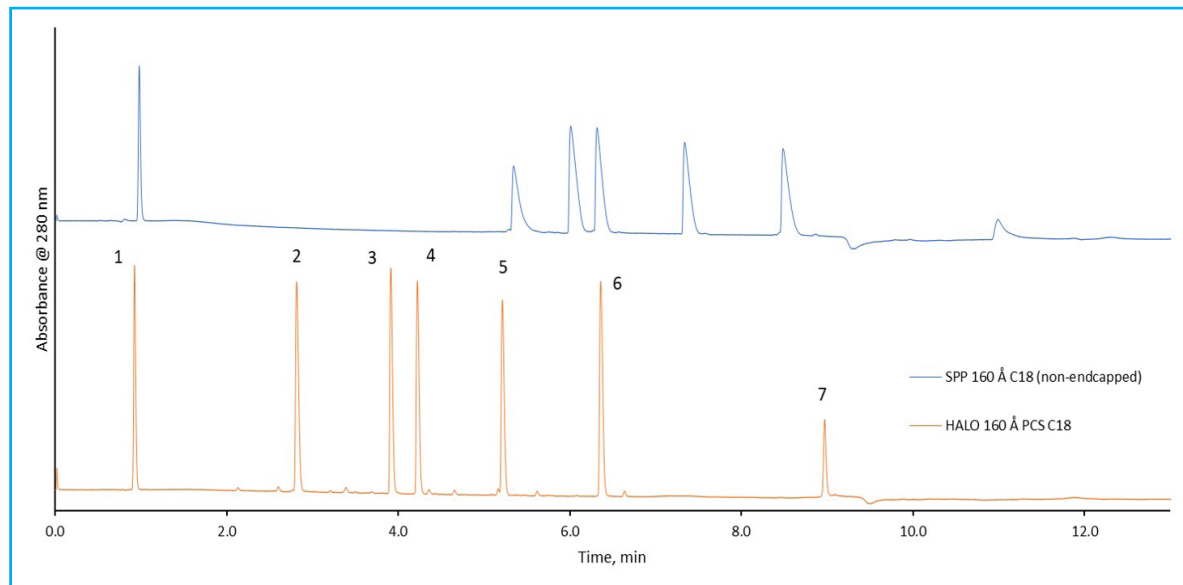




### HALO 160 Å PCS C18 vs. C18 Peptide Panel

352



#### TEST CONDITIONS:

Column: HALO 160 Å PCS C18 , 2.7  $\mu$ m, 2.1 x 100 mm  
 Part Number: 92812-617  
 Comparison Column: SPP 160 Å C18, 2.7  $\mu$ m, 2.1 x 100 mm  
 Mobile Phase A: Water/ 0.1% Formic Acid  
 Mobile Phase B: Acetonitrile/ 0.1% Formic Acid  
 Gradient:

Time	%B
0.0	2
10.0	35

Flow Rate: 0.3 mL/min  
 Temperature: 30 °C  
 Injection Volume: 1.0  $\mu$ L  
 Wavelength: PDA, 280 nm  
 Flow Cell: 1  $\mu$ L  
 Data Rate: 100 Hz  
 Response Time: 0.025 sec.  
 LC System: Shimadzu Nexera X2

#### PEAK IDENTITIES

1. Uracil
2. S1Y Sequence: RGAGGLYLK-NH<sub>2</sub>
3. S2Y Sequence: Ac-RGGGGLYLK-NH<sub>2</sub>
4. S3Y Sequence: Ac-RGAGGLYLK-NH<sub>2</sub>
5. S4Y2 Sequence: Ac-RGVGYLGLK-NH<sub>2</sub>
6. S5Y Sequence: Ac-RGVVGLYLK-NH<sub>2</sub>
7. Insulin Chain B

A synthetic peptide panel is screened on 160 Å PCS C18 compared to a C18 stationary phase. While using low ionic strength mobile phases such as formic acid the positively charged surface stationary phase shows narrower peak widths and improved peak asymmetry when compared to a traditional C18 stationary phase without endcapping.

