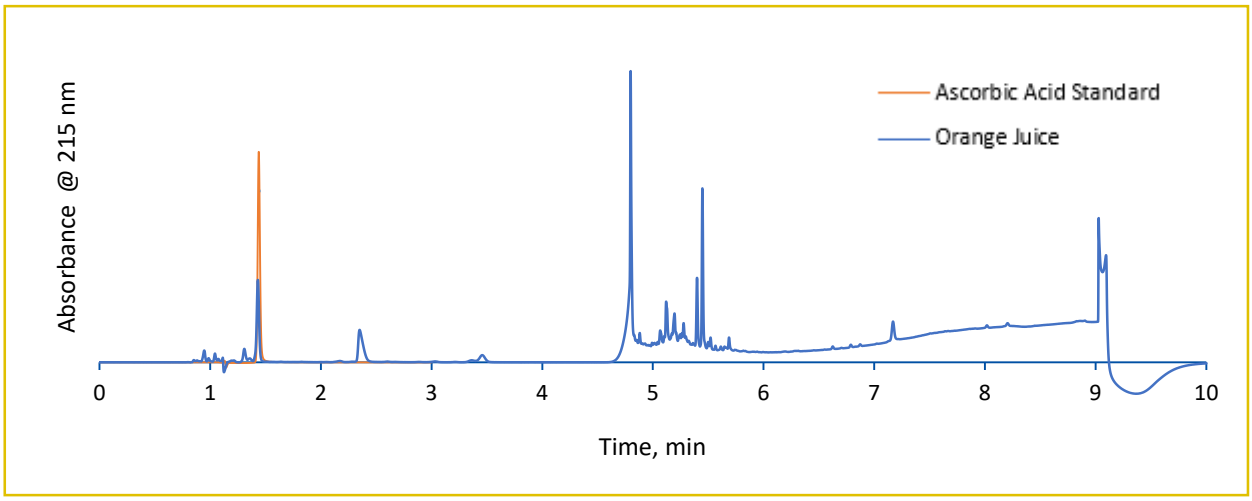
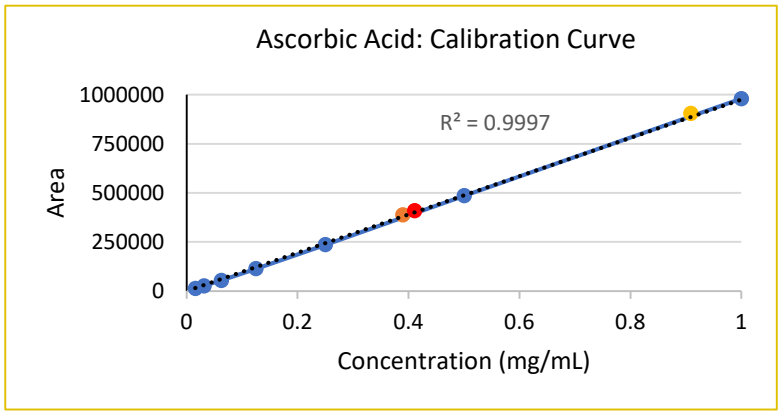
HALO®

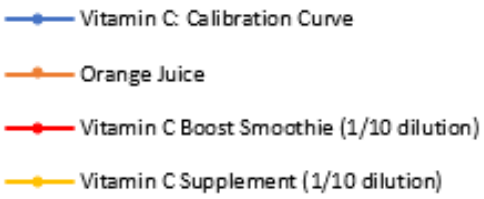
FOOD / BEVERAGE

Ascorbic Acid Analysis Using HALO® AQ-C18

Application Note: 220-OA







TEST CONDITIONS

Column: HALO 90 Å AQ-C18, 2.7 µm, 4.6 x 100 mm
Part Number: 92814-622
Mobile Phase A: Water/ 0.1% TFA
B: Acetonitrile/ 0.1% TFA
Gradient:

Time	%B
0.0	0
3.0	0
7.0	100

Flow Rate: 1.0 ml/min
Pressure: 184 bar
Temperature: 30 °C
Detection: 215 nm
Injection Volume: 1.0 µl
Sample Solvent: Water
Response Time: 0.025 sec.
Flow Cell: 1 µl
LC System: Shimadzu Nexera X2

Ascorbic acid (Vitamin C) was analyzed on three different types of samples. (orange juice, vitamin C smoothie, and a vitamin C supplement) Samples were spun down in a centrifuge and put through a syringe filter before analysis. A calibration curve was used in order to find the concentrations of ascorbic acid in each sample. Some samples were diluted in order to fit the calibration curve. A HALO® AQ-C18 column is used since a 100% water is needed for the starting mobile phase condition.