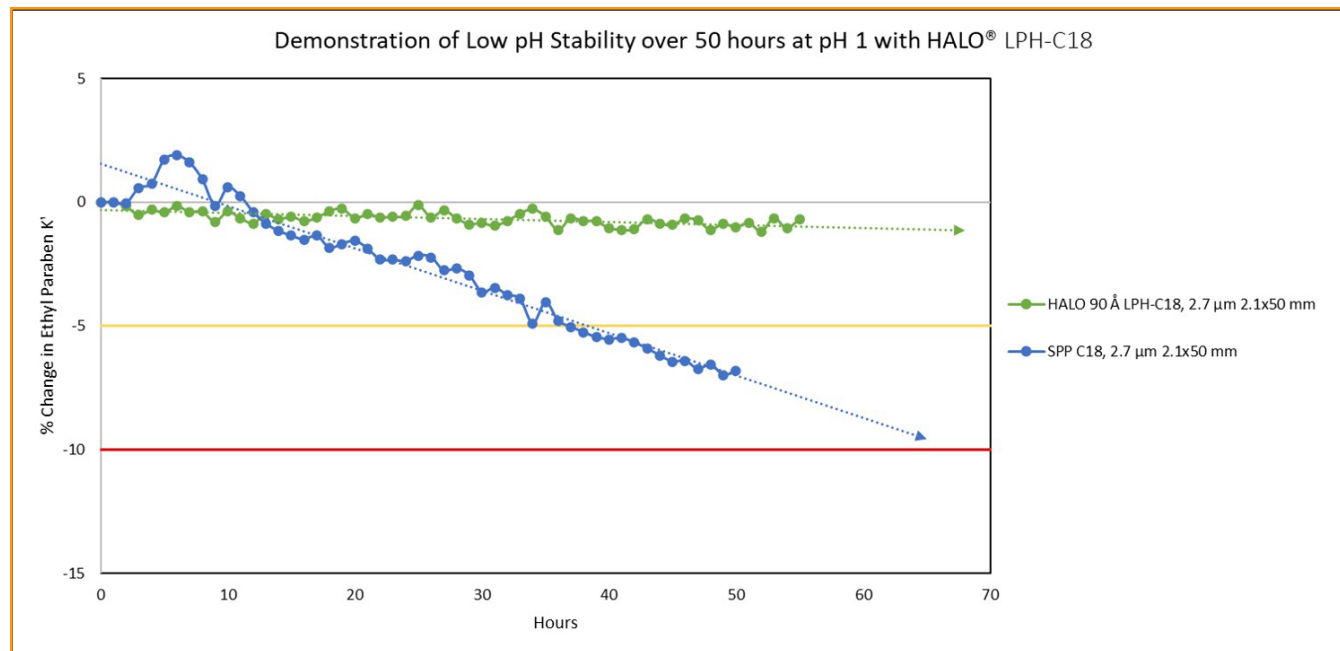




Low pH Stability with HALO® LPH-C18

294



TEST CONDITIONS:

Column: HALO 90 Å LPH-C18, 2.7 µm 2.1 x 50 mm

Part Number: 92822-416

Mobile Phase A: Water, 1% TFA (pH: 1)

Mobile Phase B: Acetonitrile

Gradient:	Time	%B
	0.0	20
	7.50	20
	7.51	5
	45.00	5
	47.00	100
	51.00	100
	51.01	20
	60.00	20

Flow Rate: 0.5 mL/min

Pressure: 108 bar

Temperature: 60 °C

Detection: UV 254 nm, PDA

Injection Volume: 0.4 µL

Sample Solvent: 25/75 ACN/ Water

Data Rate: 100 Hz

Response Time: 0.025 sec.

Flow Cell: 1 µl

LC System: Shimadzu Nexera X2

A separation of parabens is performed on a HALO 90 Å LPH-C18 column under low pH (pH 1) and high temperature conditions compared to a standard C18 SPP column. Due to the sterically protected ligand, the LPH-C18 column can withstand these conditions and maintain stable retention times while other columns show decreased retention over time indicating a loss of stationary phase.

