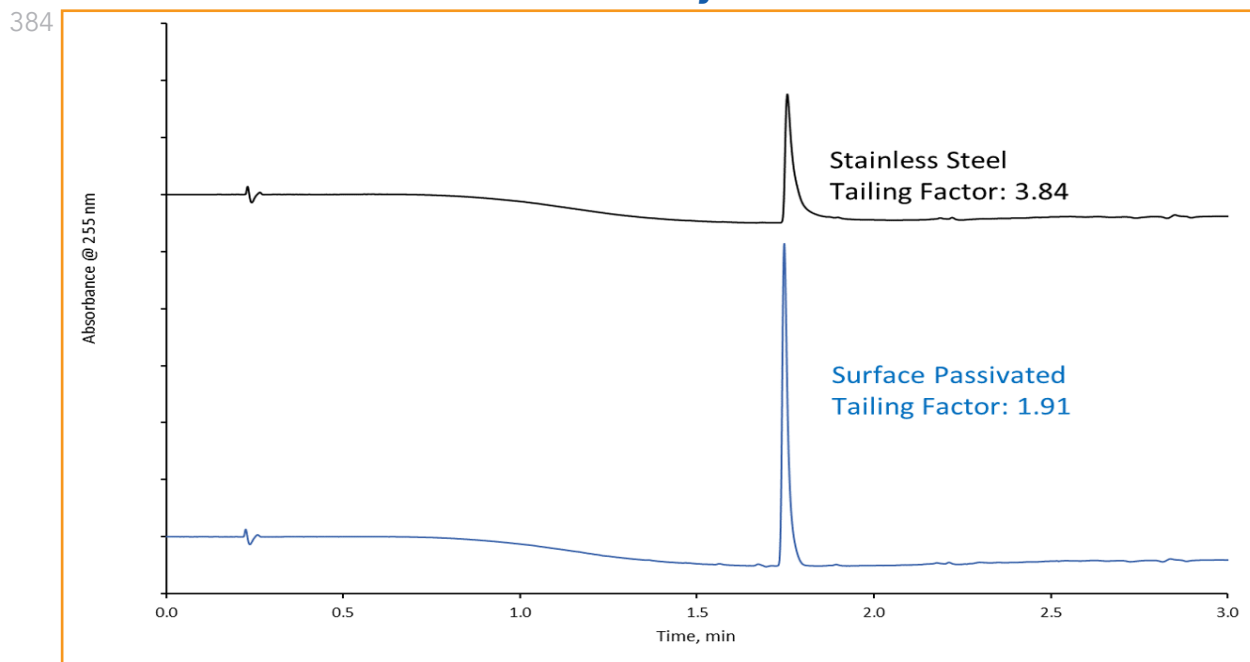




Effect of Surface Passivated HALO® Hardware on Peak Shape and Recovery



TEST CONDITIONS:

Column: Surface Passivated HALO 90 Å C18, 2.7 µm, 2.1 x 50 mm

Part Number: P2812-402

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

Part Number: 92812-402

Mobile Phase A: 10 mM ammonium formate, pH 3.2

Mobile Phase B: Acetonitrile

Gradient:	Time	%B
	0.0	5
	3.0	55
	3.5	85
	4.5	85
	5.0	5
	8.0	5

Flow Rate: 0.5 mL/min

Back Pressure: 265 bar

Temperature: 30 °C

Injection Volume: 1.0 µL

Sample Solvent: 90/10 water/methanol

Detection: UV/PDA, 255 nm

Flow Cell: 1 µL

Data Rate: 40 Hz

Response Time: 0.05 sec.

LC System: Shimadzu Nexera X2

PEAK IDENTITIES:

1. Hydrocortisone 21-phosphate sodium salt

Compounds that are known to exhibit non-specific adsorption to stainless steel include chelators, oligonucleotides, and those containing phosphate or carboxylate groups. A comparison using the same lot of HALO 90 Å C18, 2.7 µm was made with stainless steel hardware and surface passivated hardware using a sample of hydrocortisone 21-phosphate sodium salt. Both the tailing factor and area were improved with the surface passivated column hardware (blue trace) compared to the stainless steel hardware (black trace).

