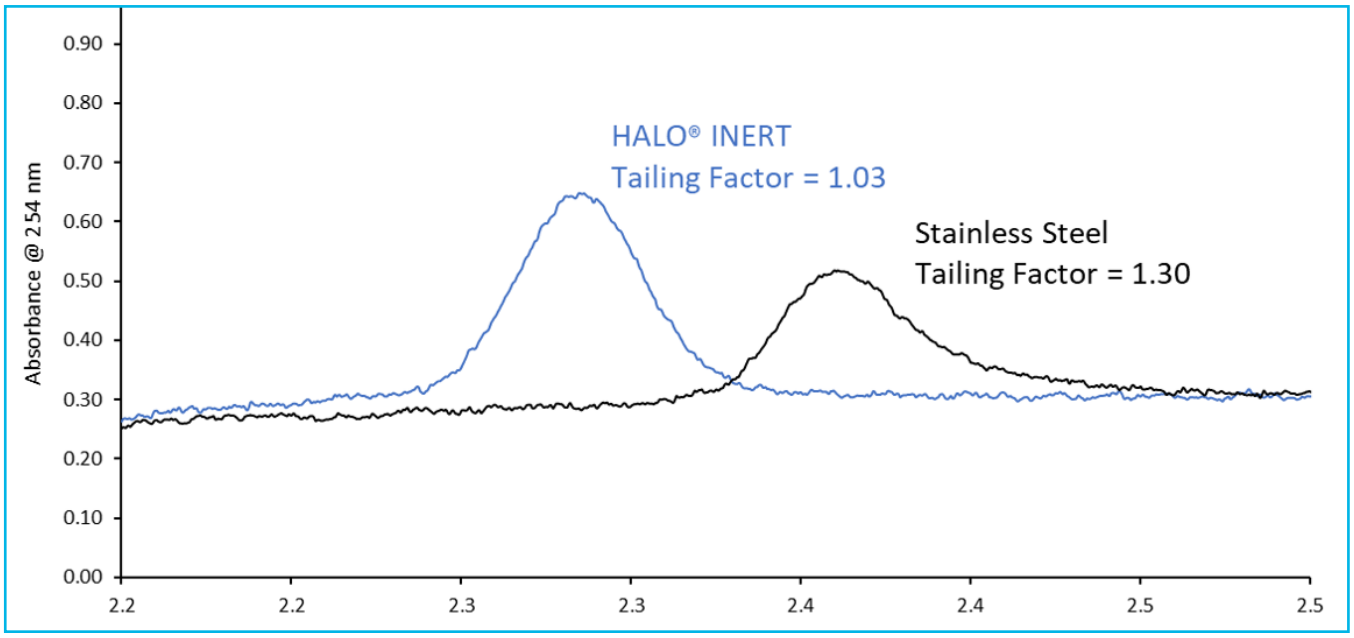
Advantage of Inert Hardware with HALO® OLIGO C18



TEST CONDITIONS:

Column: HALO 120 Å OLIGO C18, 2.7 µm, 2.1 x 50 mm
Part Number: P2A62-402
Mobile Phase A: 100mM TEAA, Adjusted to pH = 8.4
Mobile Phase B: ACN
Gradient:

Time	%B
0.0	8
3.0	10
3.5	20
4.0	20
4.1	8
8.0	8

Flow Rate: 0.5 mL/min
Back Pressure: 146 bar
Temperature: 60 °C
Injection: 1.0 µL
Sample Solvent: 10mM Tris HCl/ 1mM EDTA pH = 8.0
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 40 Hz
Response Time: 0.05 sec.
LC System: Shimadzu Nexera X2

PEAK IDENTITIES

1. Oligo dT, 15 mer

Oligonucleotides are known to exhibit non-specific adsorption to stainless steel. In this comparison, the advantages of the inert column hardware over stainless steel hardware are demonstrated. The peak area is 46% larger and the tailing factor is 26% lower with the inert column hardware, which is used for HALO® OLIGO C18. Furthermore, the retention time is decreased since non-specific metal interactions are reduced when using the inert hardware.