

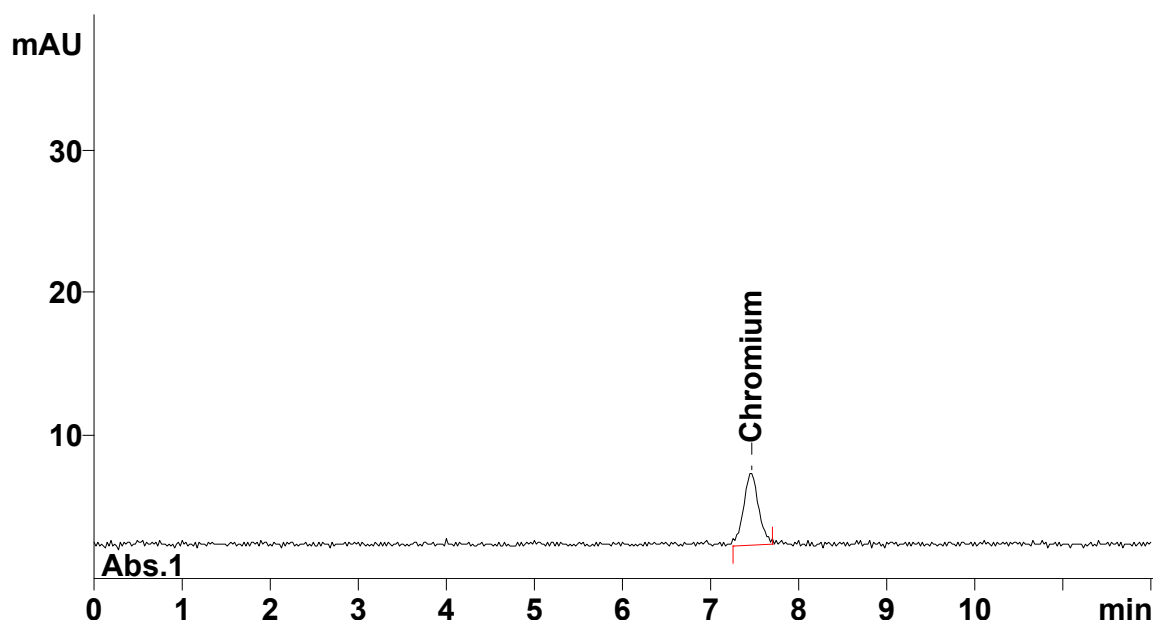
IC Application Note No. U-40

Title: Chromium(VI) in colorless and colored chromate coating on metallic samples as per IEC 62321 method for RoHS testing

Summary: The determination of chromium in metal plates sample applying anion exchange chromatography with UV/VIS detection after post-column reaction with diphenylcarbazide as per IEC 62321 method for RoHS testing. This method provides procedures for the determination of the presence of chromium(VI) in colorless and colored chromate coatings on metallic samples.

Sample: Chromate coating
Sample Preparation: Leach 50 cm² with 50 mL boiling ultrapure water for 5 min

Column: 6.1006.520 Metrosep A Supp 5 – 150
Wavelength: 540 nm
Eluent: 10.0 mmol/L carbonate, 1.0 mmol/L hydrogencarbonate
Flow: 0.7 mL/min **PCR flow:** 0.6 mL/min
Injection Volume: 20 µL



Chromatogram:	Chromate as Cr µg/L
Leachate of metallic sheet, spiked	10