

VA Application Note No. V-71

Title:	Rhodium and platinum in drinking water
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Summary:	Rhodium and platinum can be determined in water samples after UV digestion and complexation by adsorptive stripping voltammetry (AdSV) at the HMDE.
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Sample:	Drinking water
Sample preparation:	UV digestion

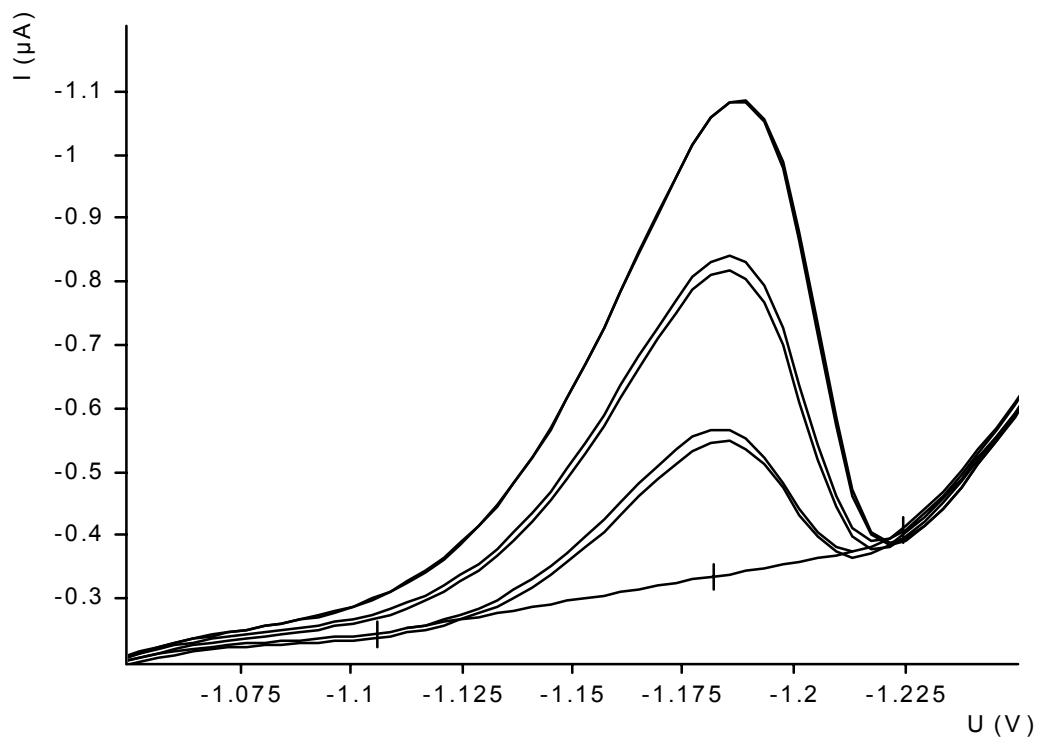
Rhodium:	
Electrolyte:	HCl + formaldehyde
AE:	GC
RE:	Ag/AgCl/KCl (3 mol/L)
Parameters:	DPAdSV at HMDE
	Deposition: –700 mV (30 s)
	Determination: –1000 mV to –1300 mV
	Peak potential Rh: –1180 mV

Platinum:	
Electrolyte:	HCl + formaldehyde + hydrazinium sulfate
AE:	GC
RE:	Ag/AgCl/KCl (3 mol/L)
Parameters:	DPAdSV at HMDE
	Deposition: –700 mV (60 s)
	Determination: –700 mV to –1000 mV
	Peak potential Pt: –880 mV

Results:	Rh	Pt
	2.3 ng/L	3.4 ng/L

Determination of rhodium

Substance: Rh VR(**)



Determination of platinum

Substance: Pt VR(**)

