



946 Portable VA Analyzer

General information

Software version: 1.0

Instrument: -

Sensor: scTRACE Gold

User name:

Report: No

Report elements: -

Method

General

Method name: AB422 Determination Hg.detp

Remarks:

Determination

Sample volume (mL): 15.0

Total cell volume (mL): 16.5

Stirring time (s): 10.0

Stirring rate (1/min): 2000

Measure blank: No

No. of blanks: 0

Blank value correction: No

No. of replications: 2

No. of additions: 2

Voltammetric

Measuring mode: Differential pulse

Current measuring range: +/- 1 uA

Cyclovoltammetric pretreatment

Start potential (V): -0.3

Vertex potential (V): 0.85

Potential step (V): 0.01

Sweep rate (V/s): 1.0

No. of cycles: 5

Potentiostatic pretreatment

Potential 1 (V): 0.75

Waiting time 1 (s): 10.0

Potential 2 (V): 0.3

Waiting time 2 (s): 90.0

Equilibration time (s): 5.0

Sweep

Start potential (V): 0.3

End potential (V): 0.6

Potential step (V): 0.004



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Pulse amplitude (V): 0.05

Pulse time (s): 0.04

Sweep rate (V/s): 0.01

Evaluation

Data processing

Smoothing: 5

Calibration method: Standard addition

Peak evaluation

	Hg
Characteristic potential (V)	0.44
Tolerance (V)	0.05
Min. width (V)	0.05
Max. width (V)	0.5
Min. measured quantity (μA)	0.001
Baseline type	Linear
Base point automatic	Yes
Start base point (V)	0.0
End base point (V)	0.0

Standard solutions

	Hg	Volume (mL)
Standard 1	0.5 mg/L	0.1
Standard 2	-	-
Standard 3	-	-
Standard 4	-	-