



License ID 459712
 Client ID 001-NBK-00348
 User Metrohm

Program version viva 2.0 - 54
 2017-05-24 13:30:35 UTC+2

Method parameters

Method AB 422 Activation scTRACE Gold
 Method saving date 2017-05-23 11:01:29 UTC+2
 Method version 1
 Method group Main group
 Method status original
 Method saved by (full name) Metrohm International Headquarters
 Method saved by (short name) Metrohm

START

Main track

General

Workplace view
 Current view on
 Track view for live window
 Live display 1 Main track
 Live display 2 Main track
 Electrode test off

Application note

Sample data variables

Name	Type	Assignment	Fixed value	Comment	Monitoring
ID1	Text	ID1		Sample identification 1	off
ID2	Text	ID2		Sample identification 2	off
ID3	Text	ID3		Sample identification 3	off
Sample type	Text	Sample type		Sample type	off
Sample amount	Number	Sample amount	10	Sample amount	off
Sample amount unit	Text	Sample amount unit		Sample amount unit	off

Name **ID1**
 Type Text
 Assignment on. ID1
 Fixed value off.
 Check at start on
 Comment Sample identification 1

Name **ID2**
 Type Text
 Assignment on. ID2
 Fixed value off.
 Check at start on
 Comment Sample identification 2



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Name **ID3**
 Type Text
 Assignment on. ID3
 Fixed value off.
 Check at start on
 Comment Sample identification 3

Name **Sample type**
 Type Text
 Assignment on. Sample type
 Fixed value off.
 Check at start on
 Comment Sample type

Name **Sample amount unit**
 Type Text
 Assignment on. Sample amount unit
 Fixed value off.
 Check at start on
 Comment Sample amount unit

Name **Sample amount**
 Type Number
 Assignment on. Sample amount
 Fixed value on. 10
 Check at start on
 Comment Sample amount
 Variable monitoring off
 Lower limit
 Upper limit
 Message
 Display message on
 Record message on
 Message by e-mail off
 E-mail template
 Subject Message from viva - method 'New method 3' - command 'Main track'
 Acoustic signal off
 Action off
 Cancel determination on
 Cancel determination and series off

Command comment
 AB 422/2: Activation of the scTRACE Gold

ADD SAMPLE

Add cleaning solution
 Addition
 Add manually on



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Display standard message on
Display message defined by the user off
Already added off
Add with dosing device off

CALL VA Call activation

Call text Call activation
Track name VA track
Condition off

VA TRACK VA track

Return immediately off

LOOP Replications

Stop criteria

Max. run number on
Max. run number 4
Maximum run time off
Signal assessment for DT off
Condition off

CVS

Activation

General/Hardware

Device

Device name 884_1
Device type 884 Professional VA

Sensors/Electrodes

Working electrode RDE
Sensor type RDE/SSE
Reference electrode Reference electrode
Auxiliary electrode Auxiliary electrode
Electrode test off

Stirrer

Stirring rate 2000 min⁻¹
Hydrodynamic measurement off

Pretreatment

Stirring time 5.0 s

Cyclovoltammetric pretreatment

Start potential -1.5 V
Vertex potential 1 V
Sweep rate 1 V/s
Cycles 10
Duration 50.00 s

Potentiostatic pretreatment

Potential 1 -1 V
Waiting time 1 10 s
Potential 2 -0.3 V



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Waiting time 2 10 s
Potential 3 off V
Waiting time 3 0.0 s
Potential 4 off V
Waiting time 4 0.0 s
Potential 5 off V
Waiting time 5 0.0 s
Equilibration time 5 s

Sweep

Start potential -0.3 V
1st vertex potential 0.2 V
2nd vertex potential -0.3 V
Potential step 0.01 V
Potential step time 0.025 s
Sweep rate 0.4 V/s
Preparation cycles 0
Measuring cycles 1
Sweep duration 2.55 s

Post-treatment

Cleaning

Cleaning potential off V
Cleaning time 0.0 s

Standby potential

Standby potential off V

Potentiostat

Current measuring range

Highest range 224 mA
Lowest range 20 μ A

TRACK

Shut off

Return immediately off
Delete old data off

STIR & PURGE

STIR & PURGE OFF

Device

Device name 884_1
Device type 884 Professional VA

Stir

Stirring rate 2000 min⁻¹
Switch on off
Switch off on
Duration off

Purge

Switch on off
Switch off on
Duration off



MAIN VALVE **N2 OFF**
 Device
 Device name 884_1
 Device type 884 Professional VA
 Action
 Open off
 Close on

EXIT **Exit track**

CALL **Exit shut off**

Call text	Track name	Sample type	Condition
Exit shut off	Shut off	off Sample	off

ERROR **Error track**

CALL **Error shut off**

Call text	Track name	Sample type	Condition
Error shut off	Shut off	off Sample	off

Evaluation parameters

General

Activation

Data processing

 Smoothing 1
 Reversed peaks off

Curve evaluation

 Fixed point evaluation off

Substances

Activation

Substances - Recognition

Activation

Substances - Baseline



Activation

Calibration curves

Results

Substance concentration in the sample

Activation

Results

Additional results

Result	Places	Prefix	Unit
Peak potential	3		V
Height	2	#	A
RSD of the heights of all replications	1		%
Area	2	#	C
RSD of the areas of all replications	1		%
Start base point	3		
End base point	3		
Standardized area	3		
Standardized height	3		
Total volume	3	#	L
Zero-order coefficient	3		
First-order coefficient	3		
Second-order coefficient	3		
Fourth-order coefficient	3		
Coefficient of determination	5		
Substance concentration in measuring vessel	2	#	
RSD of the substance concentration in measuring vessel	1		%
Amount of substance	2	#	
RSD of the substance concentration in the sample	1		%
Effective addition volume of the standard solution for the evaluation ratio	2	#	L
RSD of the effective addition volume of the standard solution for the evaluation ratio	1		%
Calibration factor DT	2	#	
RSD of the calibration factor DT	1		%
Effective addition volume of the sample solution for the evaluation ratio	2	#	L
RSD of the effective addition volume of the sample solution for the evaluation ratio	1		%

Database

Name database viva