

Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 14:27:10

General Parameters

Method : QPACK QUAL MICROBIAL ICE3000- 2024
Operator : PEDRO NASCIMENTO
Instrument Mode: Flame
Autosampler : None
Dilution: None
Use SFI: No

Description

QUALIF ICE3000 2024

Analysis Details

Analysis Name: QUAL ICE3000 MICROB 23/10/2024
Spectrometer: iCE 3000 c103300075 v1,30
Operator Name: PEDRO NASCIMENTO

Current OQ Test Result: Not Available
Current PQ Test Result: Not Available

Description

COBRE PADRÃO F24G0299H

Lamp Information

Element(s)	Serial Number	mA Hours
Cu	n/a	n/a

Deuterium Lamp Hours: 97,16

Sample Details

Nominal Mass: 1,0000

No.	Sample Id	Sample Mass	Dilution Ratio
1	CU 5PPM	1,0000	1,0000
2	CU 5PPM	1,0000	1,0000
3	CU 5PPM	1,0000	1,0000
4	CU 5PPM	1,0000	1,0000
5	CU 5PPM	1,0000	1,0000
6	CU 5PPM	1,0000	1,0000
7	CU 5PPM	1,0000	1,0000
8	CU 5PPM	1,0000	1,0000
9	CU 5PPM	1,0000	1,0000
10	CU 5PPM	1,0000	100,0000

Spectrometer Parameters - Cu

Element: Cu
Measurement Mode: Absorbance
Wavelength: 324,8nm
Bandpass: 0,5nm
Lamp Current: 50%
Background Correction: Off
High Resolution: Off
Optimise Spectrometer Parameters: No
Signal Type: Continuous
Resamples: Fast
Number Of Resamples: 3
Measurement Time: 3,0secs
Flier Mode: No
Use RSD Test: No

Flame Parameters - Cu

Flame Type: Air-C2H2
Fuel Flow: 1,0L/min
Auxilary Oxidant: Off
Nebuliser Uptake: 5secs
Burner Stabilisation: 0mins
Optimise Fuel Flow: No
Burner Height: 6,1mm
Optimise Burner Height: No

Sampling Parameters - Cu

Sampling: None

Calibration Parameters - Cu

Calibration Mode: Normal
Line Fit: Linear
Use Stored Calibration: No
Concentration Units: mg/L
Scaled Units: mg/L
Scaling Factor: 1,0000
Acceptable Fit: 0,990
Rescale Limit: 10,0%
Failure Action: Continue Next Element
Master Standard: 10,0000

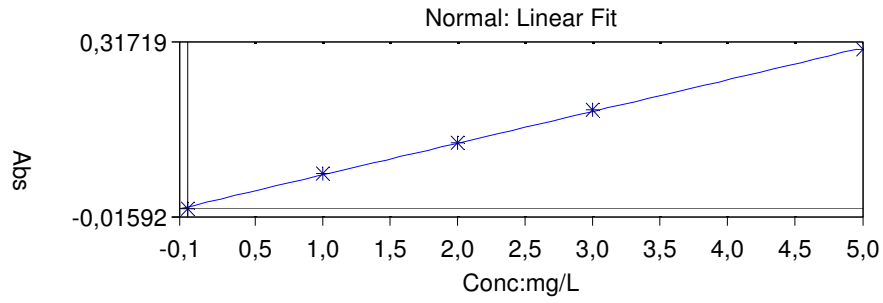
Standard 1	1,0000	Standard 3	3,0000
Standard 2	2,0000	Standard 4	5,0000

QC Parameters - Cu

Test	Conc:mg/L	Limits	Action	Repeat
QC Blank	0,0000	-0,0100 to 0,0100Abs	Continue	Continue Next Element

Solution Results - Cu

Y = 0,06034x + 0,0031
Fit: 0,9993
Characteristic Conc: 0,0729



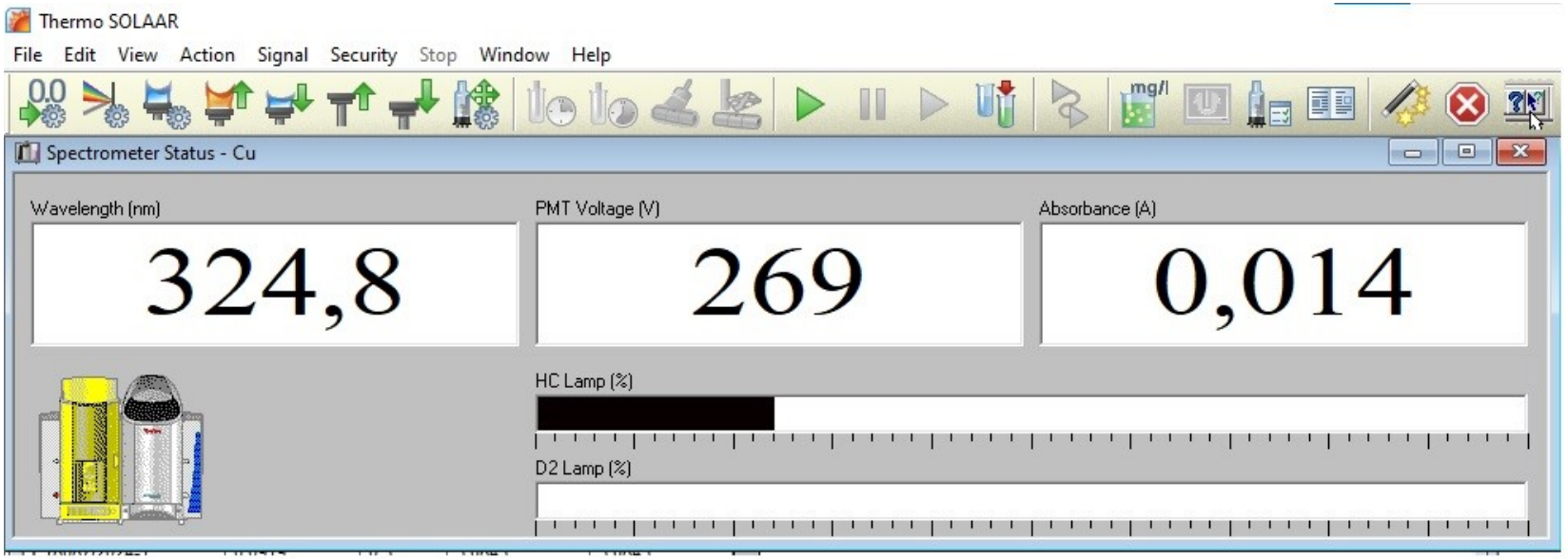
SOLAAR AA Report

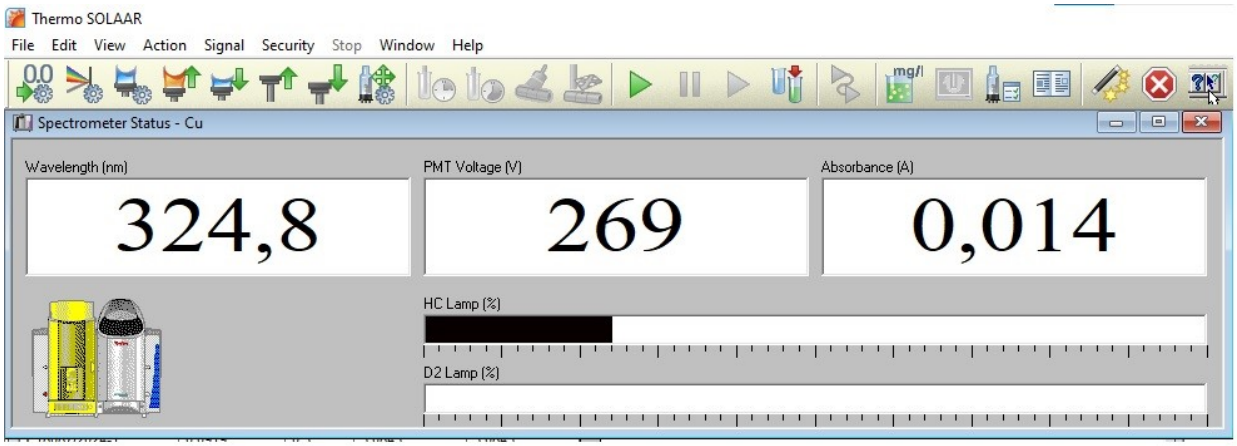
Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 14:27:10

Solution Results - Cu

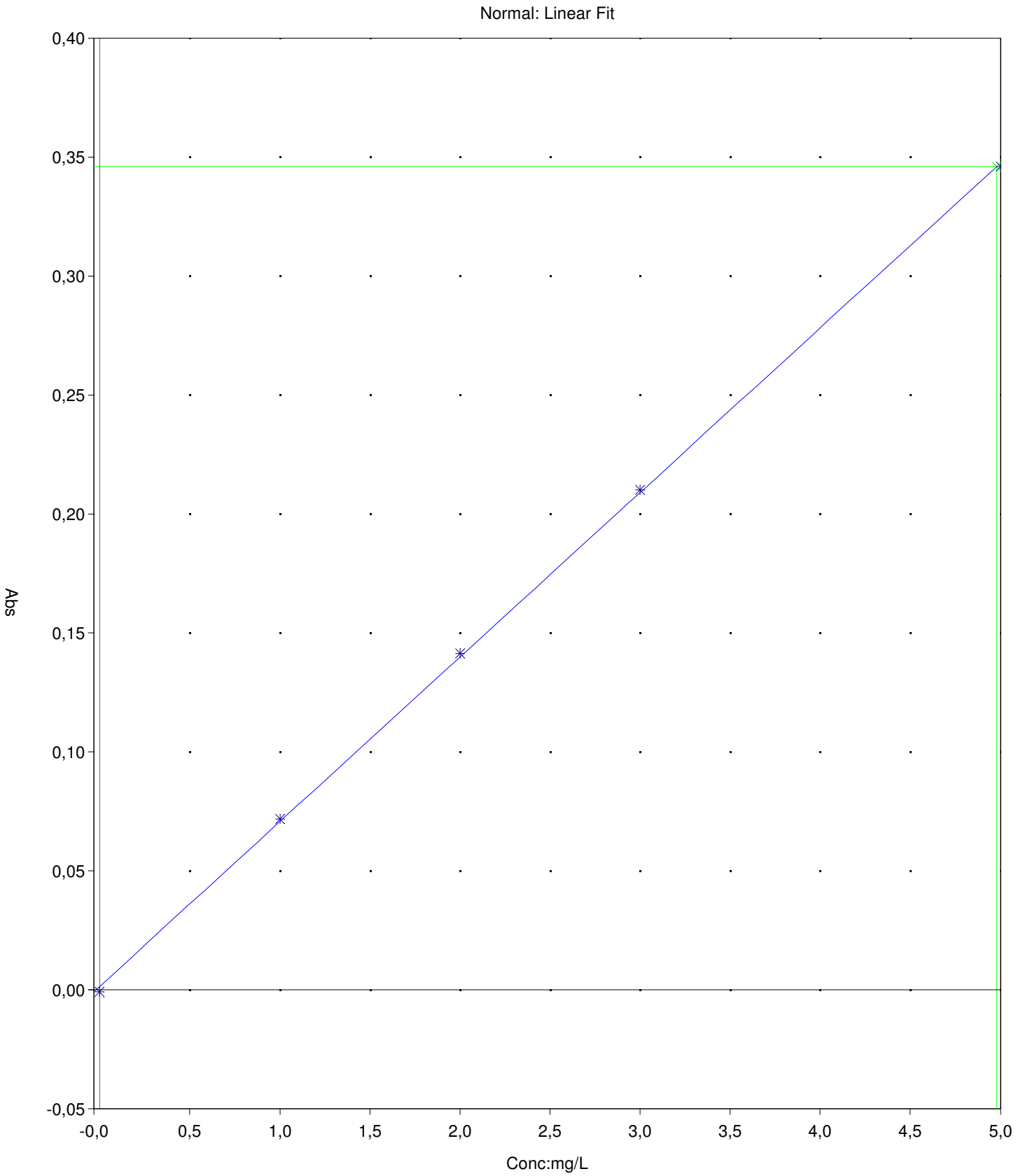
Sample ID	Signal Abs	Rsd %	Conc mg/L	Corrected Conc mg/L
Cu Blank	-0,0008	3,2	0,0000	
Cu Standard 1	0,0660	0,7	1,0000	
Cu Standard 2	0,1250	0,1	2,0000	
Cu Standard 3	0,1871	0,3	3,0000	
Cu Standard 4	0,3020	0,1	5,0000	
Cu QC Blank	-0,0024	0,9	-0,0908 C	-0,0908 C
Cu CU 5PPM	0,2899	0,4	4,7533	4,7533
Cu CU 5PPM	0,2891	0,2	4,7396	4,7396
Cu CU 5PPM	0,2905	0,7	4,7627	4,7627
Cu CU 5PPM	0,2913	0,2	4,7766	4,7766
Cu CU 5PPM	0,2908	0,6	4,7676	4,7676
Cu CU 5PPM	0,2916	0,6	4,7815	4,7815
Cu CU 5PPM	0,2916	0,2	4,7820	4,7820
Cu CU 5PPM	0,2923	0,4	4,7923	4,7923
Cu CU 5PPM	0,2902	0,4	4,7583	4,7583
Cu CU 5PPM	0,2918	0,3	4,7855	478,5512


Thermo SOLAAR
File Edit View Action Signal Security Stop Window Help
Spectrometer Status - Cu
Wavelength (nm)
324,8
PMT Voltage (V)
269
Absorbance (A)
0,014
HC Lamp (%)
D2 Lamp (%)


Thermo SOLAAR
File Edit View Action Signal Security Stop Window Help
Spectrometer Status - Cu
Wavelength (nm)
324,8
PMT Voltage (V)
269
Absorbance (A)
0,014
HC Lamp (%)
D2 Lamp (%)

Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR
Analysis Name: QPACK 13:10:39 23/10/2024
Report Date: 23/10/2024 13:15:20

Calibration - Cu

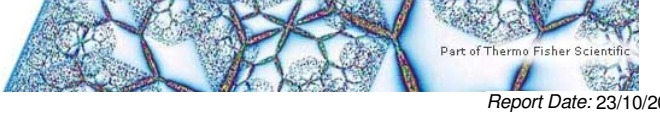


Calibration Details

Conc	Signal
0,0000	-0,0010
1,0000	0,0718
2,0000	0,1412
3,0000	0,2099
5,0000	0,3459

Characteristic Conc: 0,0636

Y = 0,06919x + 0,0014
Fit: 0,9998



Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 09:35:35

General Parameters

Method : QPACK QUAL MICROBIAL ICE3000- 2024
Operator :
Instrument Mode: Flame
Autosampler : None
Dilution: None
Use SFI: No

Analysis Details

Analysis Name: QPACK 23/10/2024
Spectrometer: iCE 3000 c103300075 v1,30
Operator Name: PEDRO NASCIMENTO

Current OQ Test Result: Not Available
Current PQ Test Result: Not Available

Description

QUALIFICAÇÃO_2024

Lamp Information

Element(s)	Serial Number	mA Hours
Cu	n/a	n/a

Deuterium Lamp Hours: 97,16

Sample Details

Nominal Mass: 1,0000

No.	Sample Id	Sample Mass	Dilution Ratio
	No Samples in Sequence		

Spectrometer Parameters - Cu

Element: Cu
Measurement Mode: Absorbance
Wavelength: 324,8nm
Bandpass: 0,5nm
Lamp Current: 75%
Background Correction: Off
High Resolution: Off
Optimise Spectrometer Parameters: Yes
Signal Type: Continuous
Resamples: Fast
Number Of Resamples: 3
Measurement Time: 4,0secs
Flier Mode: No
Use RSD Test: No

Flame Parameters - Cu

Flame Type: Air-C2H2
Fuel Flow: 1,0L/min
Auxilary Oxidant: Off
Nebuliser Uptake: 5secs
Burner Stabilisation: 0mins
Optimise Fuel Flow: No
Burner Height: 6,1mm
Optimise Burner Height: No

Sampling Parameters - Cu

Sampling: None

Calibration Parameters - Cu

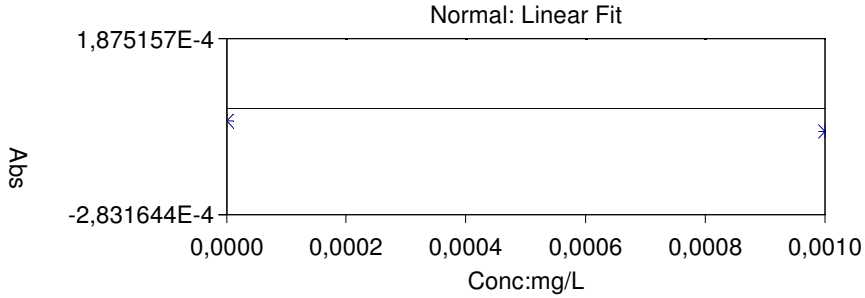
Calibration Mode: Normal
Line Fit: Linear
Use Stored Calibration: No
Concentration Units: mg/L
Scaled Units: mg/L
Scaling Factor: 1,0000
Acceptable Fit: 0,990
Rescale Limit: 10,0%
Failure Action: Flag and Continue
Master Standard: 10,0000
Standard 1 0,0010

QC Parameters - Cu

Test	Conc:mg/L	Limits	Action	Repeat
QC Blank	0,0000	-0,0100 to 0,0100Abs	Continue	Continue Next Element

Solution Results - Cu

Y = -0,02789x - 0,0000
Fit: 1,0000
Characteristic Conc: -0,1578



Sample ID	Signal Abs	Rsd %	Conc mg/L	Corrected Conc mg/L
Cu Blank	-0,0000	>99	0,0000	
Cu Standard 1	-0,0001	>99	0,0010	
Cu QC Blank	0,0003	59,5		
Cu QC Blank	0,0003	52,3		
Cu QC Blank	0,0004	50,8		
Cu QC Blank	0,0006	12,2		
Cu QC Blank	0,0008	2,6		
Cu QC Blank	0,0008	14,2		
Cu QC Blank	0,0006	26,7		

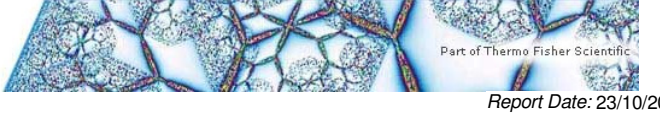
SOLAAR AA Report

Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 09:35:35

Solution Results - Cu

Sample ID	Signal	Rsd	Conc	Corrected Conc
	Abs	%	mg/L	mg/L
Cu QC Blank	0,0007	18,7		
Cu QC Blank	0,0006	16,2		
Cu QC Blank	0,0008	6,4		



Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 13:16:06

General Parameters

Method : QPACK QUAL MICROBIAL ICE3000- 2024
Operator : PEDRO NASCIMENTO
Instrument Mode: Flame
Autosampler : None
Dilution: None
Use SFI: No

Analysis Details

Analysis Name: QPACK 23/10/2024
Spectrometer: iCE 3000 c103300075 v1,30
Operator Name: PEDRO NASCIMENTO

Current OQ Test Result: Not Available
Current PQ Test Result: Not Available

Description

COBRE TOTAL

Lamp Information

Element(s)	Serial Number	mA Hours
Cu	n/a	n/a

Deuterium Lamp Hours: 97,16

Sample Details

Nominal Mass: 1,0000

No.	Sample Id	Sample Mass	Dilution Ratio
1	CU 5PPM	1,0000	1,0000
2	CU 5PPM	1,0000	1,0000
3	CU 5PPM	1,0000	1,0000
4	CU 5PPM	1,0000	1,0000
5	CU 5PPM	1,0000	1,0000
6	CU 5PPM	1,0000	1,0000
7	CU 5PPM	1,0000	1,0000
8	CU 5PPM	1,0000	1,0000
9	CU 5PPM	1,0000	1,0000
10	CU 5PPM	1,0000	100,0000

Spectrometer Parameters - Cu

Element: Cu
Measurement Mode: Absorbance
Wavelength: 324,8nm
Bandpass: 0,5nm
Lamp Current: 50%
Background Correction: Off
High Resolution: Off
Optimise Spectrometer Parameters: No
Signal Type: Continuous
Resamples: Fast
Number Of Resamples: 3
Measurement Time: 3,0secs
Flier Mode: No
Use RSD Test: No

Flame Parameters - Cu

Flame Type: Air-C2H2
Fuel Flow: 1,0L/min
Auxilary Oxidant: Off
Nebuliser Uptake: 5secs
Burner Stabilisation: 0mins
Optimise Fuel Flow: No
Burner Height: 6,1mm
Optimise Burner Height: No

Sampling Parameters - Cu

Sampling: None

Calibration Parameters - Cu

Calibration Mode: Normal
Line Fit: Linear
Use Stored Calibration: No
Concentration Units: mg/L
Scaled Units: mg/L
Scaling Factor: 1,0000
Acceptable Fit: 0,990
Rescale Limit: 10,0%
Failure Action: Continue Next Element
Master Standard: 10,0000

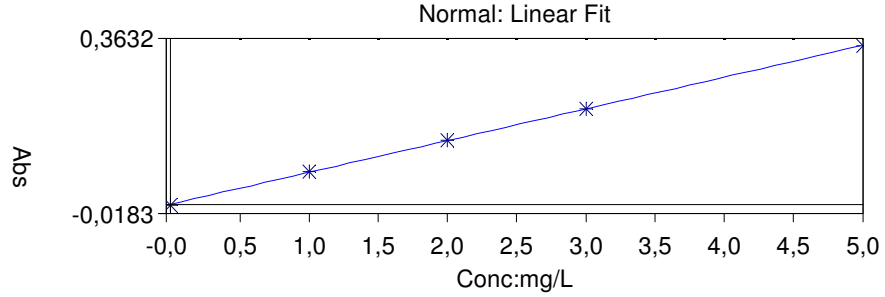
Standard 1	1,0000	Standard 3	3,0000
Standard 2	2,0000	Standard 4	5,0000

QC Parameters - Cu

Test	Conc:mg/L	Limits	Action	Repeat
QC Blank	0,0000	-0,0100 to 0,0100Abs	Continue	Continue Next Element

Solution Results - Cu

Y = 0,06919x + 0,0014
Fit: 0,9998
Characteristic Conc: 0,0636



Sample ID	Signal Abs	Rsd %	Conc mg/L	Corrected Conc mg/L
Cu Blank	-0,0010	26,9	0,0000	

SOLAAR AA Report

Operator Name: microbialfq
Results File: C:\SOLAARM\DATA\RESULTS.SLR

Report Date: 23/10/2024 13:16:06

Solution Results - Cu

Sample ID	Signal	Rsd	Conc	Corrected Conc
	Abs	%	mg/L	mg/L
Cu Standard 1	0,0718	0,2	1,0000	
Cu Standard 2	0,1412	0,1	2,0000	
Cu Standard 3	0,2099	0,3	3,0000	
Cu Standard 4	0,3459	0,3	5,0000	

Spectrometer Status - Cu

Wavelength (nm)

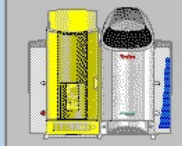
324,7

PMT Voltage (V)

274

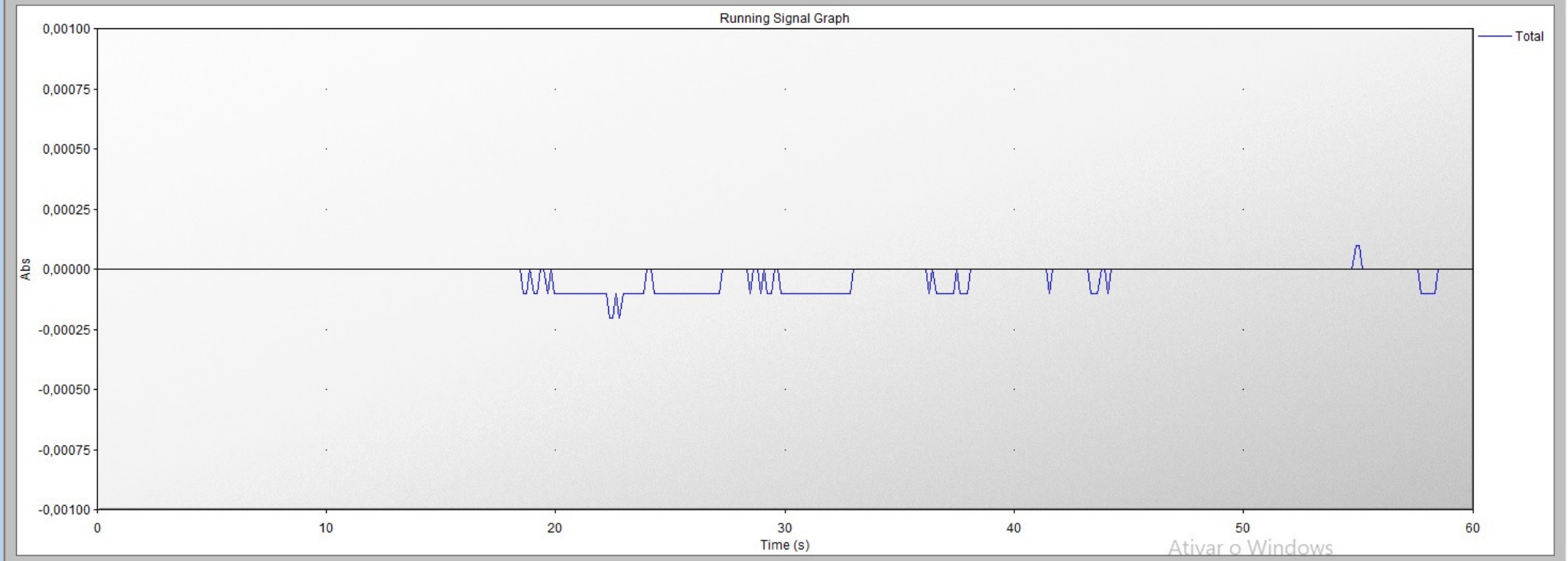
Conc:mg/L

-0,0167



HC Lamp (%)

D2 Lamp (%)



Ativar o Windows
Acesse Configurações para ativar o Windows.