`

A A

Instrument/User Details

Instrument:	FUSION
User:	QPackSA
Date:	2023/03/28 14:41

A A

Benchmark Tests

Display Colors	**Status**	**Result**
Yellow	Completed	Pass
Blue	Completed	Pass
Green	Completed	Pass
Cyan	Completed	Pass
Red	Completed	Pass
Violet	Completed	Pass
White	Completed	Pass
Clear(off)	Completed	Pass
Beeper	**Status**	**Result**
beeper(on)	Completed	Pass
Motors	**Status**	**Result**
Home Motors	Completed	Pass
Needle Down	Completed	Pass
Needle Up	Completed	Pass
Arm Position A	Completed	Pass
Arm Position 30	Completed	Pass
Carrousel Move Position 5	Completed	Pass
Carrousel Move Position 12	Completed	Pass
Carrousel Move Position 8	Completed	Pass
Solenoid Valves	**Status**	**Result**
Valve no. A	Completed	Pass
Valve no. B	Completed	Pass
Valve no. C	Completed	Pass
Valve no. D	Completed	Pass
Valve no. E	Completed	Pass
Valve no. F	Completed	Pass
Valve no. G	Completed	Pass
Valve no. H	Completed	Pass
Detector	**Status**	**Result**
Detector Readings	Completed	Pass
Door Sensor	**Status**	**Result**
Door(Open/Close)	Completed	Pass
Mass Flow	**Status**	**Result**
Pressure Reading	Completed	Pass
Flow Reading	Completed	Pass
Pumper	**Status**	**Result**
Pumper Valve Pos A	Completed	Pass
Pumper Valve Pos B	Completed	Pass
Pumper Valve Pos C	Completed	Pass
Pumper Valve Pos D	Completed	Pass
Pumper Valve Pos F	Completed	Pass
Pumper Valve Pos G	Completed	Pass
Pumper Valve Pos H	Completed	Pass
Syringe Midrange(12ml)	Completed	Pass
Syringe Max(25ml)	Completed	Pass
Syringe Min(0ml)	Completed	Pass
LeakCheck	**Status**	**Result**
UV LeakCheck	Completed	Pass
IC LeakCheck	Completed	Pass

Fusion Report - 28-03-2023 - Blank quinta-feira, 30 de março de 2023 08:09

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 09:43 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	28-03-2023 - Blank	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v5)		
Comment:			

Report Results

Sample Type: Blank (Creating v180) From Schedule Version 5

	Pos	Analysis Type	Sample ID	Start Time
◈	(blank)		Reagent/Acid Blank	2023/03/30 08:10

Rep #	Base Analysis Type	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	IC Clean	6.09	25.60	19.51	49.03	05:11
2	TC Clean	31.50	51.79	20.28	50.07	03:56
3	TC Clean	1.62	23.95	22.33	49.69	03:37
4	TC Clean	0.94	20.79	19.85	49.98	03:37
5	Reagent Blank	12.57	31.92	19.35	49.78	04:55
6	Acid Blank	2.79	23.20	20.41	48.80	05:19

Sample Type: Blank (Creating v) From Schedule Version 5

	Pos	Analysis Type	Sample ID	Start Time
◈	(blank)		Reagent/Acid Blank	2023/03/30 08:42

Rep #	Base Analysis Type	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v179	5.1990	5.4290	0.0000	0.0000	0.0000	2023/03/29 18:52	QPack Soluções Analíticas Ltda (QPackSA)
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda (QPackSA)

Calibrations

Methods

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 08:48

Blanks

Version: 183
Instrument: FUSION
Last Saved by: QPack Soluções Analíticas Ltda (QPackSA)
Last Saved on: 2023/04/01 11:04 - sábado

Acid Count: 2,79
Reagent Count: 4,1887
DI IC Count: 0
DI OC Count: 0
DI TC Count: 0
Comment:

Fusion Report - 28-03-2023 Água Reagente quinta-feira, 30 de março de 2023 09:56

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 09:53 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	28-03-2023 Água Reagente	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v3)		
Comment:			

Report Results

Sample Type: Sample — From Schedule Version 3

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	1	TOC	Água Reagente	0.0509 ppm	0.0000 ppm	0.0000%	2023/03/30 09:57

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	0.0509	0.4583	4.54	23.97	19.43	50.03	03:59

Dilution	Blank Contribution	Method	Calibration
1:1	(TC) 2.5132 (IC) (v180)	Calibração 2022 (v1)	Calibração 2021 (v1)

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda (QPackSA)

Calibrations

Name: Calibração 2021 (TOC)

Version:	v1	Calibration curve formula:	TOC: y = 39.724x + 6.170

Ver Creation: 2021/03/04 10:32
r^2 value: TOC: r^2 = 0.99464
Comment:
Operator: QPack Soluções Analíticas Ltda (QPackSA)
Basic Analysis Type: TOC

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	2.6140	0.0000		2021/03/04 09:41
0 ppm	2.7760	0.0000		2021/03/04 09:48
0,100 ppm	8.3170	0.1000		2021/03/04 09:57
0,5 ppm	26.1980	0.5000		2021/03/04 10:04
1 ppm	50.5960	1.0000		2021/03/04 10:12
2,5 ppm	115.1350	2.5000		2021/03/04 10:20
5 ppm	199.0390	5.0000		2021/03/04 10:27

Methods

Name: Calibração 2022 (TOC)

Version: v1
Operator: QPack Soluções Analíticas Ltda (QPackSA)
Ver Creation: 2023/03/28 16:25
Comment:

Parameter	Value
SampleVolume	9.0 mL
Dilution	1:1
AcidVolume	0.5 ml
ReagentVolume	0.6 ml
UVReactorPrerinse	Off
UVReactorPrerinseVolume	0.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	0.50 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	0.00 mins
SystemFlow	500 ml/min

Advanced Parameter	Value
NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.50 min
DetectorPressureFlow	300 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	3
SyringeSpeedReagent	3
SyringeSpeedDIWater	3
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	3
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.70 min
SampleMixing	Off
SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

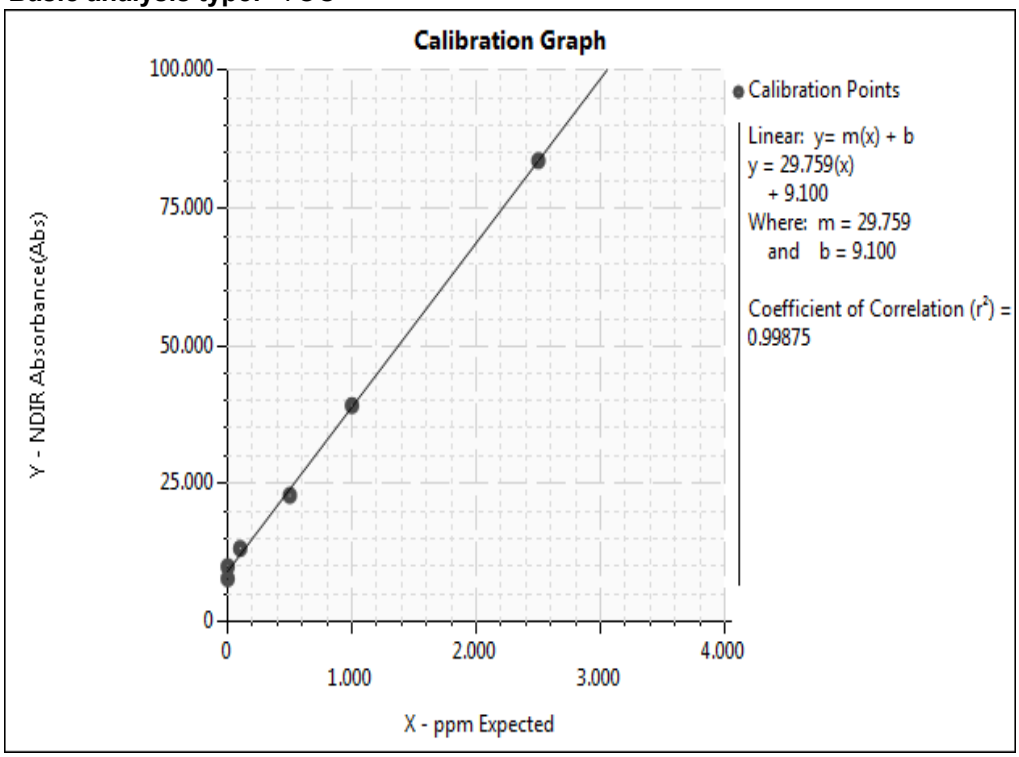
Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 10:05

Name: Calibração 2023

Analysis Type: TOC
Version: 1
Instrument: FUSION
Last Saved by: QPack Soluções Analíticas Ltda (QPackSA)
Last Saved on: 2023/03/30 12:01 - quinta-feira

Basic analysis type: TOC



Data Points

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	9.9720	0.0000		2023/03/30 10:22
0 ppm	7.7860	0.0000		2023/03/30 10:29
0,100 ppm	13.2600	0.1000		2023/03/30 10:37
0,5 ppm	22.8740	0.5000		2023/03/30 10:45
1 ppm	39.1740	1.0000		2023/03/30 10:53
2,5 ppm	83.5460	2.5000		2023/03/30 11:00

Printed on: abril 1, 2023 09:56:31

Fusion Report - 30-03-2023 Calibração quinta-feira, 30 de março de 2023 10:16

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 09:55 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	30-03-2023 Calibração	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v1)		
Comment:			

Report Results

Sample Type: Calibration Standard: Calibração 2021 (Creating calibration Calibração 2020 v5) From Schedule Version 1

	Pos	BAT	Concentration (ppm)	STD Conc	Dil	Sample ID	Result (Abs)	Std. Dev. (Abs)	RSD	Start Time
◈	1	TOC	DI Water [0]	5 ppmC	DI	[TOC] Calibração 2023 [0 ppm]	9.9720	0.0000	0%	2023/03/30 10:16
◈	1	TOC	DI Water [0]	5 ppmC	DI	[TOC] Calibração 2023 [0 ppm]	7.7860	0.0000	0%	2023/03/30 10:23
◈	1	TOC	0.1000	5 ppmC	1:50	[TOC] Calibração 2023 [0,100 ppm]	13.2600	0.0000	0%	2023/03/30 10:31
◈	1	TOC	0.5000	5 ppmC	1:10	[TOC] Calibração 2023 [0,5 ppm]	22.8740	0.0000	0%	2023/03/30 10:39
◈	1	TOC	1.0000	5 ppmC	1:5	[TOC] Calibração 2023 [1 ppm]	39.1740	0.0000	0%	2023/03/30 10:47
◈	1	TOC	2.5000	5 ppmC	1:2	[TOC] Calibração 2023 [2,5 ppm]	83.5460	0.0000	0%	2023/03/30 10:54
◈	1	TOC	5.0000	5 ppmC	1:1	[TOC] Calibração 2023 [5 ppm]	119.2110	0.0000	0%	2023/03/30 11:02

Pos	Base Analysis Type	ID	Rep #	Adjusted	NDIR	Baseline	Pressure	Run Time
1	TOC	0 ppm	1	9.97	29.51	19.54	49.91	04:02
1	TOC	0 ppm	1	7.79	27.44	19.65	49.94	03:58
1	TOC	0,100 ppm	1	13.26	32.63	19.37	50.00	04:03
1	TOC	0,5 ppm	1	22.87	42.43	19.55	49.79	04:00
1	TOC	1 ppm	1	39.17	58.91	19.74	49.89	04:00
1	TOC	2,5 ppm	1	83.55	103.35	19.81	50.08	03:57

1	TOC	5 ppm	1	119.21	139.74	20.53	50.09	03:59

Completion State
FAIL: the r squared is 0.9732, which is less then the criteria of 0.9950

Method
Calibração 2020 (v2)

Success Action
Auto (always)

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda (QPackSA)

Calibrations

Name: Calibração 2020 (TOC)

Version:	v4	Calibration curve formula:	TOC: y = 48.522x + 4.830
Ver Creation:	2021/03/04 10:28	r^2 value:	TOC: r^2 = 0.99945
Comment:			
Operator:	QPack Soluções Analíticas Ltda (QPackSA)		
Basic Analysis Type	TOC		

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	3.8000	0.0000		2020/01/30 08:41
0 ppm	3.8240	0.0000		2020/01/30 08:48
0,100 ppm	10.1340	0.1000		2020/01/30 08:57
0,5 ppm	29.9120	0.5000		2020/01/30 09:04
1 ppm	54.9250	1.0000		2020/01/30 09:12
2,5 ppm	125.3240	2.5000		2020/01/30 09:20

Name: Calibração 2020 (TOC)

Version:	v5	Calibration curve formula:	TOC: y = 48.522x + 4.830
Ver Creation:	2023/03/30 11:09	r^2 value:	TOC: r^2 = 0.99945
Comment:			
Operator:	QPack Soluções Analíticas Ltda (QPackSA)		
Basic Analysis Type	TOC		

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	3.8000	0.0000		2020/01/30 08:41
0 ppm	3.8240	0.0000		2020/01/30 08:48
0,100 ppm	10.1340	0.1000		2020/01/30 08:57
0,5 ppm	29.9120	0.5000		2020/01/30 09:04
1 ppm	54.9250	1.0000		2020/01/30 09:12
2,5 ppm	125.3240	2.5000		2020/01/30 09:20

Methods

Name: Calibração 2020 (TOC)

Version: v2
Operator: Michael Careli (Michael)
Ver Creation: 2020/01/29 15:55
Comment:

Parameter	Value
SampleVolume	9.0 mL
Dilution	1:1
AcidVolume	0.5 ml
ReagentVolume	0.6 ml
UVReactorPrerinse	Off
UVReactorPrerinseVolume	0.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	0.50 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	0.00 mins
SystemFlow	500 ml/min

Advanced Parameter	Value
NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.50 min
DetectorPressureFlow	300 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	3
SyringeSpeedReagent	3
SyringeSpeedDIWater	3
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	3
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.70 min
SampleMixing	Off
SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 11:09

Fusion Report - 30-03-2023 Check quinta-feira, 30 de março de 2023 04:55

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 09:59 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	30-03-2023 Check	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v5)		
Comment:			

Report Results

Sample Type: Check Standard --> Check — From Schedule Version 5

	Pos	BAT	Concentration (ppm)	Dil	Sample ID	Min / Max (% dev)	Result	Std. Dev.	RSD	Start Time
◈	3	TOC	0.6670	1:15	[TOC] Check [0.667 ppm]	0.6000 / 0.7333 (90% / 110%)	**0.7126 ppm (PASS)**	0.0000 ppm	0%	2023/03/30 16:56
◈	3	TOC	3.3330	1:3	[TOC] Check [3.333 ppm]	3.0000 / 3.6667 (90% / 110%)	**3.4604 ppm (PASS)**	0.0000 ppm	0%	2023/03/30 17:03

Pos	Base Analysis Type	ID	Rep #	ppm	µg	Adjusted	NDIR	Baseline	Pressure	Run Time
3	TOC	0.667 ppm	1	0.7126	6.4130	30.31	50.31	20.01	50.02	03:57
3	TOC	3.333 ppm	1	3.4604	31.1436	112.08	131.90	19.82	50.21	04:01

Completion State	Success Action	Method	Calibration	STD Conc - Pos 3
Success - Criteria met.	Halt	Calibração 2023 (v2)	Calibração 2023 (v1)	10 ppmC

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda

							(QPackSA)

Calibrations

Name: Calibração 2023 (TOC)

Version:	v1	Calibration curve formula:	TOC: y = 29.759x + 9.100
Ver Creation:	2023/03/30 12:01	r^2 value:	TOC: r^2 = 0.99875
Comment:			
Operator:	QPack Soluções Analíticas Ltda (QPackSA)		
Basic Analysis Type	TOC		

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	9.9720	0.0000		2023/03/30 10:22
0 ppm	7.7860	0.0000		2023/03/30 10:29
0,100 ppm	13.2600	0.1000		2023/03/30 10:37
0,5 ppm	22.8740	0.5000		2023/03/30 10:45
1 ppm	39.1740	1.0000		2023/03/30 10:53
2,5 ppm	83.5460	2.5000		2023/03/30 11:00

Methods

Name: Calibração 2023 (TOC)

Version:	v2	Operator:	QPack Soluções Analíticas Ltda (QPackSA)
Ver Creation:	2023/03/30 14:56		
Comment:			

Parameter	Value
SampleVolume	9.0 mL
Dilution	1:1
AcidVolume	0.5 ml
ReagentVolume	0.6 ml
UVReactorPrerinse	Off
UVReactorPrerinseVolume	0.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	0.50 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	0.00 mins
SystemFlow	500 ml/min

Advanced Parameter	Value
NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.50 min
DetectorPressureFlow	300 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	3
SyringeSpeedReagent	3
SyringeSpeedDIWater	3
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	3
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.70 min
SampleMixing	Off

SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 17:11

Fusion Report - 30-03-2023 Syst Suit quinta-feira, 30 de março de 2023 07:40

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 10:01 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	30-03-2023 Syst Suit	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v3)		
Comment:			

Report Results

Sample Type: System Suitability — From Schedule Version 3

	Pos	System Suitability Sample Type	Sample ID	Result	Std. Dev.	RSD	Start Time
◈	7	Reagent Water	[ReagentWater] System Suitability [Reagent Water]	**0.0765 ppm (PASS)**	0.0000 ppm	0%	2023/03/30 19:40
◈	8	Standard Solution	[StandardSolution] System Suitability [Sucrose (500 ppb)]	0.8389 ppm	0.0000 ppm	0%	2023/03/30 19:48
◈	9	Suitability Solution	[SuitabilitySolution] System Suitability [1,4-Benzoquinone (500 ppb)]	0.9347 ppm	0.0000 ppm	0%	2023/03/30 19:56

Response Efficiency: NaN% — Limit Response (Ru): NaN ppb

(Acceptance Criteria 85% to 115%)

Pos	Rep #	ppm	µg	Adjusted	NDIR	Baseline	Pressure	Run Time
7	1	0.0765	0.6883	4.79	24.48	19.69	49.01	03:59
8	1	0.8389	7.5503	27.48	47.24	19.76	50.11	03:57
9	1	0.9347	8.4125	30.33	50.11	19.78	50.08	03:59

Completion State	Dilution	Blank Contribution	Method	Calibration
FAIL: The response efficiency of 117.97% is above the maximum efficiency of 115.00%.	1:1	2.5132 (v180)	Calibração 2023 (v2)	Calibração 2023 (v1)

Sample Type: Clean — From Schedule Version 3

	Pos	Analysis Type	Sample ID	Start Time
◈	(clean)		Clean	2023/03/30 20:04

Rep #	Base Analysis Type	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	IC Clean	-4.29	22.80	27.09	49.24	05:11
2	TC Clean	31.54	51.73	20.19	50.16	03:54
3	TC Clean	1.86	24.88	23.01	49.45	03:35
4	TC Clean	1.46	21.67	20.21	49.66	03:38

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda (QPackSA)

Calibrations

Name: Calibração 2023 (TOC)

Version:	v1	Calibration curve formula:	TOC: y = 29.759x + 9.100
Ver Creation:	2023/03/30 12:01	r^2 value:	TOC: r^2 = 0.99875
Comment:			
Operator:	QPack Soluções Analíticas Ltda (QPackSA)		
Basic Analysis Type	TOC		

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	9.9720	0.0000		2023/03/30 10:22
0 ppm	7.7860	0.0000		2023/03/30 10:29
0,100 ppm	13.2600	0.1000		2023/03/30 10:37
0,5 ppm	22.8740	0.5000		2023/03/30 10:45
1 ppm	39.1740	1.0000		2023/03/30 10:53
2,5 ppm	83.5460	2.5000		2023/03/30 11:00

Methods

Name: Calibração 2023 (TOC)

Version:	v2	Operator:	QPack Soluções Analíticas Ltda (QPackSA)

Ver Creation: 2023/03/30 14:56

Comment:

Parameter	Value
SampleVolume	9.0 mL
Dilution	1:1
AcidVolume	0.5 ml
ReagentVolume	0.6 ml
UVReactorPrerinse	Off
UVReactorPrerinseVolume	0.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	0.50 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	0.00 mins
SystemFlow	500 ml/min

Advanced Parameter	Value
NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.50 min
DetectorPressureFlow	300 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	3
SyringeSpeedReagent	3
SyringeSpeedDIWater	3
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	3
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.70 min
SampleMixing	Off
SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 20:25

Fusion Report - 30-03-2023 Syst Suit quinta-feira, 30 de março de 2023 07:40

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2023/04/01 10:04 - sábado

Report Summary Information

Company Location:	LAB		
Schedule Name:	30-03-2023 Syst Suit	Engine Version:	1.1.4.196
Instrument Name:	FUSION	Firmware Version:	1.2.0701
Report Version:	1 of 1	Connection:	TCP/IP: 172.16.89.116
Report Creation by Operators (schedule version):	QPack Soluções Analíticas Ltda (QPackSA) (v3)		
Comment:			

Report Results

Sample Type: System Suitability — From Schedule Version 3

	Pos	System Suitability Sample Type	Sample ID	Result	Std. Dev.	RSD	Start Time
◈	7	Reagent Water	[ReagentWater] System Suitability [Reagent Water]	**0.0765 ppm (PASS)**	0.0000 ppm	0%	2023/03/30 19:40
◈	8	Standard Solution	[StandardSolution] System Suitability [Sucrose (500 ppb)]	0.8389 ppm	0.0000 ppm	0%	2023/03/30 19:48
◈	9	Suitability Solution	[SuitabilitySolution] System Suitability [1,4-Benzoquinone (500 ppb)]	0.9347 ppm	0.0000 ppm	0%	2023/03/30 19:56

Response Efficiency: NaN% — Limit Response (Ru): NaN ppb

(Acceptance Criteria 85% to 115%)

Pos	Rep #	ppm	µg	Adjusted	NDIR	Baseline	Pressure	Run Time
7	1	0.0765	0.6883	4.79	24.48	19.69	49.01	03:59
8	1	0.8389	7.5503	27.48	47.24	19.76	50.11	03:57
9	1	0.9347	8.4125	30.33	50.11	19.78	50.08	03:59

Completion State	Dilution	Blank Contribution	Method	Calibration
FAIL: The response efficiency of 117.97% is above the maximum efficiency of 115.00%.	1:1	2.5132 (v180)	Calibração 2023 (v2)	Calibração 2023 (v1)

Sample Type: Clean — From Schedule Version 3

	Pos	Analysis Type	Sample ID	Start Time
◈	(clean)		Clean	2023/03/30 20:04

Rep #	Base Analysis Type	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	IC Clean	-4.29	22.80	27.09	49.24	05:11
2	TC Clean	31.54	51.73	20.19	50.16	03:54
3	TC Clean	1.86	24.88	23.01	49.45	03:35
4	TC Clean	1.46	21.67	20.21	49.66	03:38

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v180	4.1890	2.7900	0.0000	0.0000	0.0000	2023/03/30 08:42	QPack Soluções Analíticas Ltda (QPackSA)

Calibrations

Name: Calibração 2023 (TOC)

Version:	v1	Calibration curve formula:	TOC: y = 29.759x + 9.100
Ver Creation:	2023/03/30 12:01	r^2 value:	TOC: r^2 = 0.99875
Comment:			
Operator:	QPack Soluções Analíticas Ltda (QPackSA)		
Basic Analysis Type	TOC		

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0 ppm	9.9720	0.0000		2023/03/30 10:22
0 ppm	7.7860	0.0000		2023/03/30 10:29
0,100 ppm	13.2600	0.1000		2023/03/30 10:37
0,5 ppm	22.8740	0.5000		2023/03/30 10:45
1 ppm	39.1740	1.0000		2023/03/30 10:53
2,5 ppm	83.5460	2.5000		2023/03/30 11:00

Methods

Name: Calibração 2023 (TOC)

Version:	v2	Operator:	QPack Soluções Analíticas Ltda (QPackSA)

Ver Creation: 2023/03/30 14:56

Comment:

Parameter	Value
SampleVolume	9.0 mL
Dilution	1:1
AcidVolume	0.5 ml
ReagentVolume	0.6 ml
UVReactorPrerinse	Off
UVReactorPrerinseVolume	0.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	0.50 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	0.00 mins
SystemFlow	500 ml/min

Advanced Parameter	Value
NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.50 min
DetectorPressureFlow	300 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	3
SyringeSpeedReagent	3
SyringeSpeedDIWater	3
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	3
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.70 min
SampleMixing	Off
SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	QPack Soluções Analíticas Ltda (QPackSA)	Schedule completed	Schedule completed	2023/03/30 20:25