



NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 7095 Calibration Adjustment Location: TOXL

A. Pre-Adjustment

Replaced Simulator Return O-Ring Yes or No

B. Calibration Adjustment (Level 3,M,C,O)

1. ☒ Autocalibration Printout Attached

☒ Max Power Res Value ≥ 10

☒ Auto Range Res Value ≥ 4

2. Simulator Solutions for Calibration Adjustment

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA-Milli-Q H ₂ O	NA-Milli-Q H ₂ O	MP3066
2	0.040	202111A	09 Nov 23	MP6040
3	0.080	202110C	26 Oct 23	MP5290 MP5320
4	0.100	202304A	04 Apr 25	MP5290
5	0.300	202201F	18 Jan 24	MP3059

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 2602108041 Cyl No. 20 Exp. Date: 10/5/23

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000

958 mbar

Adjusted to using barometer

956 mbar

Auto Calibration Report printout

958 mbar

Barometer Model

Ancroid - Ancroid-03316-72

Barometer Serial Number

881001

Barometer Calibration Expiration Date

9/1/23

5. ☒ Screen displayed "Calibration Success"

6. ☒ Calibration Adjustment Printout Attached

☒ Solution 1 Avg % Abs ≤ 0.2500

☒ Solution 2-5 REL STD DEV ≤ 3.000

☒ Residual (g/210 L) values for solutions 1 - 5 ≤ 0.0020 for 3 μ m and 9 μ m channels

☒ Dry Gas H₂O adjustment sum for 3 μ m and 9 μ m channels within ± 10

3 μ m 2888 (Ave.) + 921 (H₂O Adj.) = 3809

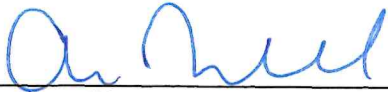
9 μ m 98 (Ave.) + 383 (H₂O Adj.) = 3809.3
3426.3

C. Is an Annual Inspection due for this instrument? Yes or No

If Yes, complete Intoxilyzer 8000 Annual Inspection (Qualtrax ID: 11698)

If No, complete Intoxilyzer 8000 Calibration (Qualtrax ID: 11871).

Remarks/Notes: N/A



Analyst Signature

21 June 2023

Date



Reviewer Signature

22 June 2023

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007095
06/21/2023 10:30:08

Auto Calibration
Max Power Res Value = 75
Auto Range Res Value = 60

Auto Calibration Printout
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TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007095
06/21/2023 10:30:08

Auto Calibration

pg 1 of 2

<<<<< 3um >>>>>			<<<<< 9um >>>>>		

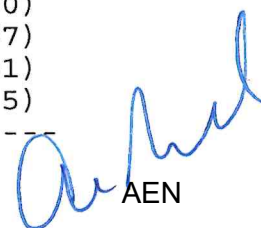
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.1450	(0.0020)	0.0950	(0.0080)	
Sample #2	0.1750	(0.0230)	0.1130	(0.0050)	
Sample #3	0.1390	(0.0590)	0.0960	(0.0220)	
Sample #4	0.1770	(0.0620)	0.1270	(0.0060)	
Avg % Abs	0.1637	(0.0480)	0.1120	(0.0110)	
STD DEV	0.0214	(0.0217)	0.0155	(0.0095)	
REL STD DEV	13.066	(45.214)	13.861	(86.722)	

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.8880	(-0.0070)	1.4170	(-0.0050)	
Sample #2	0.8700	(0.0110)	1.4450	(-0.0150)	
Sample #3	0.8840	(0.0150)	1.4500	(-0.0080)	
Sample #4	0.9210	(0.0150)	1.4650	(0.0010)	
Avg % Abs	0.8917	(0.0137)	1.4533	(-0.0073)	
STD DEV	0.0264	(0.0023)	0.0104	(0.0080)	
REL STD DEV	2.955	(16.898)	0.716	(109.375)	

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.6460	(-0.0260)	2.7150	(-0.0050)	
Sample #2	1.6750	(-0.0240)	2.7750	(-0.0120)	
Sample #3	1.6140	(0.0140)	2.7350	(0.0020)	
Sample #4	1.6300	(-0.0020)	2.7480	(-0.0110)	
Avg % Abs	1.6397	(-0.0040)	2.7527	(-0.0070)	
STD DEV	0.0316	(0.0191)	0.0204	(0.0078)	
REL STD DEV	1.929	(476.970)	0.741	(111.575)	

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	2.0260	(-0.0250)	3.4020	(-0.0110)	
Sample #2	2.0100	(0.0150)	3.4200	(0.0070)	
Sample #3	2.0270	(0.0140)	3.4490	(-0.0130)	
Sample #4	2.0500	(0.0070)	3.4170	(0.0040)	
Avg % Abs	2.0290	(0.0120)	3.4287	(-0.0007)	
STD DEV	0.0201	(0.0044)	0.0177	(0.0108)	
REL STD DEV	0.989	(36.324)	0.515	(1617.869)	

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	5.3840	(0.0110)	9.3000	(-0.0040)	
Sample #2	5.5430	(0.0090)	9.5040	(0.0050)	
Sample #3	5.5310	(0.0210)	9.5230	(0.0040)	
Sample #4	5.5570	(0.0350)	9.5280	(0.0080)	
Avg % Abs	5.5437	(0.0217)	9.5183	(0.0057)	
STD DEV	0.0130	(0.0130)	0.0127	(0.0021)	
REL STD DEV	0.235	(60.059)	0.133	(36.735)	

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TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007095
06/21/2023 10:30:08

Auto Calibration

pg 2 of 2

<<<< 3um >>>>

Zero Order Coef -387.28
First Order Coef 2504.85
Second Order Coef 25.53

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0005
0.040	0.039	0.0008
0.080	0.080	0.0004
0.100	0.101	-0.0008
0.300	0.300	0.0000

<<<< 9um >>>>

Zero Order Coef -152.34
First Order Coef 1395.95
Second Order Coef 12.69

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0001
0.040	0.040	0.0000
0.080	0.080	0.0005
0.100	0.100	-0.0004
0.300	0.300	0.0000

<<<< 3um >>>> <<<< 9um >>>>

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
Sample
Sample #1 2973.00 3437.00
Sample #2 2928.00 3426.00
Sample #3 2924.00 3442.00
Sample #4 2812.00 3411.00
Avg 2888.0000 3426.3333
STD DEV 65.8483 15.5027
REL STD DEV 2.280 0.452
H2O adjust (mg/l*10k) 921 383

Atmospheric Pressure = 958

*****CALIBRATION SUCCESSFUL*****

