



**NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION**

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 60688 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	MP5321
2	0.040	<u>202303H</u>	<u>28Mar25</u>	<u>MP5289</u>
3	0.080	<u>202302B</u>	<u>14Feb25</u>	<u>MP3067</u>
4	0.100	<u>202304A</u>	<u>04Apr25</u>	<u>MP6038</u>
5	0.300	<u>202402C</u>	<u>14Feb26</u>	<u>MP3062</u>

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 14323080A4 Cyl No. 13 Exp. Date: 6/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 957 mbar

Adjusted to using barometer 957 mbar

Auto Calibration Report printout 957 mbar

Barometer Model 1051D-922

Barometer Serial Number 230307250

Barometer Calibration Expiration Date 02May25

5. Screen displayed "Calibration Success"

6. Calibration Adjustment Printout Attached

Solution 1 Avg % Abs ≤ 0.2500

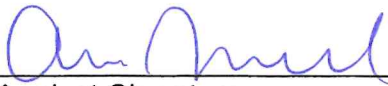
Solution 2-5 REL STD DEV ≤ 3.000

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 μm and 9 μm channels within ± 10
3 μm 3303 (Ave.) + 506 (H₂O Adj.) = 3809
9 μm 3329 (Ave.) + 480 (H₂O Adj.) = 3809

C. Is an Annual Inspection due for this instrument? Yes or No
If Yes, complete Intoxilyzer 8000 Annual Inspection (Document ID: 11698)
If No, complete Intoxilyzer 8000 Calibration (Document ID: 11871).

Remarks/Notes: - N/A



Analyst Signature

04Apr2024

Date



Reviewer Signature

08Apr 2024

Date

INTOXILYZER 8000
Instrument Initialization
09:51 04/04/2024

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006688
04/04/2024 09:59:09

Auto Calibration
Max Power Res Value = 45
Auto Range Res Value = 24

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006688
 04/04/2024 09:59:09

Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)

Solution =	0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.0940	(0.0080)	0.1820	(0.0010)
Sample #2	0.1260	(0.0630)	0.1850	(0.0170)
Sample #3	0.0980	(0.1070)	0.1910	(0.0340)
Sample #4	0.0790	(0.1490)	0.1740	(0.0590)
Avg % Abs	0.1010	(0.1063)	0.1833	(0.0367)
STD DEV	0.0236	(0.0430)	0.0086	(0.0211)
REL STD DEV	23.409	(40.443)	4.703	(57.618)

Solution =	0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7620	(0.0040)	1.5110	(0.0060)
Sample #2	0.8110	(0.0160)	1.5700	(-0.0040)
Sample #3	0.8210	(0.0320)	1.5810	(0.0090)
Sample #4	0.8140	(0.0470)	1.5820	(0.0160)
Avg % Abs	0.8153	(0.0317)	1.5777	(0.0070)
STD DEV	0.0051	(0.0155)	0.0067	(0.0101)
REL STD DEV	0.629	(48.956)	0.422	(144.984)

Solution =	0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4830	(-0.0350)	2.8560	(-0.0180)
Sample #2	1.4840	(0.0080)	2.9280	(-0.0020)
Sample #3	1.5130	(0.0140)	2.9580	(-0.0100)
Sample #4	1.5110	(0.0240)	2.9530	(-0.0010)
Avg % Abs	1.5027	(0.0153)	2.9463	(-0.0043)
STD DEV	0.0162	(0.0081)	0.0161	(0.0049)
REL STD DEV	1.078	(52.715)	0.546	(113.836)

Solution =	0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.8060	(0.0060)	3.5410	(0.0070)
Sample #2	1.8490	(0.0110)	3.6340	(0.0070)
Sample #3	1.8610	(0.0150)	3.6310	(0.0000)
Sample #4	1.8210	(0.0390)	3.6050	(0.0180)
Avg % Abs	1.8437	(0.0217)	3.6233	(0.0083)
STD DEV	0.0205	(0.0151)	0.0159	(0.0091)
REL STD DEV	1.113	(69.894)	0.440	(108.885)

Solution =	0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.1190	(-0.0200)	9.7240	(-0.0130)
Sample #2	5.1750	(0.0030)	9.8970	(0.0090)
Sample #3	5.1980	(0.0200)	9.8990	(0.0040)
Sample #4	5.1930	(0.0090)	9.8730	(0.0040)
Avg % Abs	5.1887	(0.0107)	9.8897	(0.0057)
STD DEV	0.0121	(0.0086)	0.0145	(0.0029)
REL STD DEV	0.233	(80.828)	0.146	(50.943)

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006688
 04/04/2024 09:59:09

Auto Calibration

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-281.73			-240.20	
First Order Coef	2687.38			1332.78	
Second Order Coef	23.18			13.74	
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Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	-0.000	0.0002	0.000	0.000	-0.0001
0.040	0.040	-0.0004	0.040	0.040	0.0002
0.080	0.080	0.0000	0.080	0.080	0.0001
0.100	0.100	0.0002	0.100	0.100	-0.0002
0.300	0.300	-0.0000	0.300	0.300	0.0000
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<<<<< 3um >>>>>		<<<<< 9um >>>>>	
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3326.00		3340.00
Sample #2	3278.00		3312.00
Sample #3	3329.00		3340.00
Sample #4	3303.00		3335.00
Avg	3303.3333		3329.0000
STD DEV	25.5016		14.9332
REL STD DEV	0.772		0.449
H2O adjust (mg/l*10k)	506		480

Atmospheric Pressure = 957

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