



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4950 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. 28423080A3 Cyl No. 37 Exp. Date: 11/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 955 mbar
 Adjusted to using barometer 963 mbar
 Auto Calibration Report printout 963 mbar
 Barometer Model 10510-922
 Barometer Serial Number 230307250
 Barometer Calibration Expiration Date 02May25

5. Screen displayed "Calibration Success"

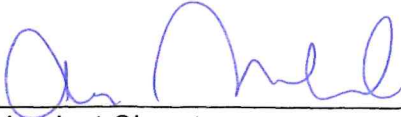
6. Calibration Adjustment Printout Attached

- 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 3440 (Ave.) + 369 (H₂O Adj.) = 3809
9 μm 3346 (Ave.) + 463 (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

19 Apr 2024

Date



Reviewer Signature

25 Apr 2024

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004950
04/19/2024 10:25:41

Auto Calibration
Max Power Res Value = 13
Auto Range Res Value = 4

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004950
 04/19/2024 10:25:41

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	0.1300	(-0.0140)		0.2270	(-0.0070)				
Sample #2	0.0720	(0.0510)		0.2240	(0.0040)				
Sample #3	0.1110	(0.0590)		0.2470	(0.0040)				
Sample #4	0.1070	(0.0710)		0.2530	(-0.0020)				
Avg % Abs	0.0967	(0.0603)		0.2413	(0.0020)				
STD DEV	0.0215	(0.0101)		0.0153	(0.0035)				
REL STD DEV	22.195	(16.685)		6.343	(173.205)				

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	0.7910	(-0.0120)		1.6620	(-0.0420)				
Sample #2	0.7750	(0.0310)		1.5370	(0.0370)				
Sample #3	0.7940	(0.0110)		1.5890	(0.0080)				
Sample #4	0.7990	(0.0220)		1.6100	(0.0190)				
Avg % Abs	0.7893	(0.0213)		1.5787	(0.0213)				
STD DEV	0.0127	(0.0100)		0.0376	(0.0146)				
REL STD DEV	1.604	(46.953)		2.381	(68.626)				

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	1.4820	(-0.0100)		2.9450	(0.0220)				
Sample #2	1.4370	(0.0200)		2.8410	(0.0860)				
Sample #3	1.4710	(0.0170)		2.8430	(0.1110)				
Sample #4	1.4600	(0.0430)		2.8790	(0.0980)				
Avg % Abs	1.4560	(0.0267)		2.8543	(0.0983)				
STD DEV	0.0173	(0.0142)		0.0214	(0.0125)				
REL STD DEV	1.192	(53.341)		0.749	(12.715)				

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	1.7760	(0.0070)		3.5340	(0.0320)				
Sample #2	1.7650	(0.0280)		3.4910	(0.0680)				
Sample #3	1.7790	(0.0210)		3.4750	(0.0840)				
Sample #4	1.7980	(0.0180)		3.4630	(0.0960)				
Avg % Abs	1.7807	(0.0223)		3.4763	(0.0827)				
STD DEV	0.0166	(0.0051)		0.0140	(0.0140)				
REL STD DEV	0.930	(22.977)		0.404	(16.993)				

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	5.0120	(-0.0180)		9.4220	(-0.0130)				
Sample #2	5.0340	(0.0140)		9.4450	(0.0100)				
Sample #3	5.0390	(0.0320)		9.4710	(-0.0040)				
Sample #4	5.0230	(0.0330)		9.4540	(0.0030)				
Avg % Abs	5.0320	(0.0263)		9.4567	(0.0030)				
STD DEV	0.0082	(0.0107)		0.0132	(0.0070)				
REL STD DEV	0.163	(40.605)		0.140	(233.333)				

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004950
 04/19/2024 10:25:41

Auto Calibration

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
Zero Order Coef	-281.89			-353.53	
First Order Coef	2782.00			1421.17	
Second Order Coef	22.49			13.42	
Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	-0.000	0.0003	0.000	-0.000	0.0002
0.040	0.040	-0.0005	0.040	0.040	-0.0004
0.080	0.080	-0.0001	0.080	0.080	-0.0001
0.100	0.100	0.0004	0.100	0.100	0.0003
0.300	0.300	-0.0000	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	3369.00		3371.00
Sample #2	3511.00		3348.00
Sample #3	3449.00		3347.00
Sample #4	3362.00		3344.00
Avg	3440.6667		3346.3333
STD DEV	74.8487		2.0817
REL STD DEV	2.175		0.062
H2O adjust (mg/l*10k)	369		463

Atmospheric Pressure = 963

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