



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 6673 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>28 Mar 25</u>	<u>MP5289</u>
3	0.080	<u>202302B</u>	<u>14 Feb 25</u>	<u>MP3047</u>
4	0.100	<u>202304A</u>	<u>04 Apr 25</u>	<u>MP6038</u>
5	0.300	<u>202402C</u>	<u>14 Feb 26</u>	<u>MP3062</u>

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 01923080A3 Cyl No. 17 Exp. Date: 2/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 950 mbar

Adjusted to using barometer 951 mbar

Auto Calibration Report printout 950 mbar

Barometer Model 10510-922

Barometer Serial Number 230307250

Barometer Calibration Expiration Date 02 May 25

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 3520 (Ave.) + 289 (H₂O Adj.) = 3809

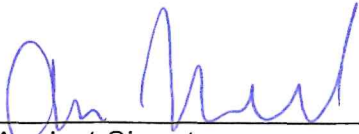
9 μm 3485 (Ave.) + 324 (H₂O Adj.) = 3809

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: NIA



Analyst Signature

15 Apr 2024

Date



Reviewer Signature

16 Apr 2024

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006673
04/15/2024 08:58:37

Auto Calibration
Max Power Res Value = 46
Auto Range Res Value = 30

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006673
 04/15/2024 08:58:37

Auto Calibration

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	<<<<< 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	0.0930	(-0.0150)	0.2140	(-0.0180)
Sample #2	0.0640	(0.0300)	0.1880	(-0.0020)
Sample #3	0.0570	(0.0690)	0.1780	(0.0110)
Sample #4	0.0610	(0.0960)	0.1890	(0.0270)
Avg % Abs	0.0607	(0.0650)	0.1850	(0.0120)
STD DEV	0.0035	(0.0332)	0.0061	(0.0145)
REL STD DEV	5.789	(51.048)	3.288	(121.049)

Solution =	0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.6740	(0.0120)	1.4770	(0.0000)
Sample #2	0.6810	(0.0280)	1.4790	(0.0210)
Sample #3	0.6910	(0.0420)	1.4900	(0.0170)
Sample #4	0.6950	(0.0460)	1.4760	(0.0240)
Avg % Abs	0.6890	(0.0387)	1.4817	(0.0207)
STD DEV	0.0072	(0.0095)	0.0074	(0.0035)
REL STD DEV	1.047	(24.444)	0.497	(16.993)

Solution =	0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.2870	(0.0060)	2.6260	(0.0110)
Sample #2	1.3350	(0.0180)	2.7200	(0.0000)
Sample #3	1.3480	(0.0100)	2.7400	(-0.0040)
Sample #4	1.3200	(0.0290)	2.7300	(0.0000)
Avg % Abs	1.3343	(0.0190)	2.7300	(-0.0013)
STD DEV	0.0140	(0.0095)	0.0100	(0.0023)
REL STD DEV	1.050	(50.207)	0.366	(173.205)

Solution =	0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.6490	(0.0020)	3.3970	(0.0120)
Sample #2	1.6750	(0.0050)	3.4250	(0.0300)
Sample #3	1.6740	(0.0220)	3.4460	(0.0260)
Sample #4	1.7090	(0.0180)	3.4540	(0.0280)
Avg % Abs	1.6860	(0.0150)	3.4417	(0.0280)
STD DEV	0.0199	(0.0089)	0.0150	(0.0020)
REL STD DEV	1.182	(59.255)	0.435	(7.143)

Solution =	0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1			
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	4.6530	(-0.0240)	9.1880	(-0.0040)
Sample #2	4.7630	(-0.0040)	9.3490	(0.0340)
Sample #3	4.7780	(0.0200)	9.4180	(0.0460)
Sample #4	4.8220	(0.0000)	9.4990	(0.0340)
Avg % Abs	4.7877	(0.0053)	9.4220	(0.0380)
STD DEV	0.0307	(0.0129)	0.0751	(0.0069)
REL STD DEV	0.640	(241.091)	0.797	(18.232)

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006673
 04/15/2024 08:58:37

Auto Calibration

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Zero Order Coef	-149.04			-252.20	
First Order Coef	2907.54			1433.78	
Second Order Coef	22.31			11.56	
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Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	0.001	-0.0006	0.000	0.000	-0.0003
0.040	0.039	0.0008	0.040	0.040	0.0002
0.080	0.079	0.0008	0.080	0.079	0.0013
0.100	0.101	-0.0011	0.100	0.101	-0.0012
0.300	0.300	0.0001	0.300	0.300	0.0001
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3608.00	3491.00	
Sample #2	3473.00	3466.00	
Sample #3	3618.00	3502.00	
Sample #4	3470.00	3489.00	
Avg	3520.3333	3485.6667	
STD DEV	84.5951	18.2300	
REL STD DEV	2.403	0.523	
H2O adjust (mg/l*10k)	289	324	

Atmospheric Pressure = 950

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