



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4954 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	202303H	3/28/25	MP5289
3	0.080	202302B	2/14/25	MP3067
4	0.100	202304A	4/4/25	MP6038
5	0.300	202402C	2/14/26	MP3062

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 28423080A3Cyl No. 39 Exp. Date: 11/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 920 mbar
 Adjusted to using barometer 956 mbar
 Auto Calibration Report printout 956 mbar
 Barometer Model 1051-922
 Barometer Serial Number 230307250
 Barometer Calibration Expiration Date 02 May 2025

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 3395 (Ave.) + 414 (H₂O Adj.) = 3809

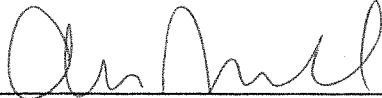
9 μm 3392 (Ave.) + 417 (H₂O Adj.) = 3809

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).

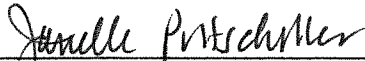
Remarks/Notes: N/A



Analyst Signature

02 Apr 2024

Date



Reviewer Signature

03 Apr 2024

Date

TOXL
Intoxilyzer - Alconol Analyzer
Model 8000 SN 80-004954
04/02/2024 10:16:06

Auto Calibration
Max Power Res Value = 12
Auto Range Res Value = 6
Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum lo = 12874, Sum lo = 13045

<<<< CHANNEL 1 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.0820	(-0.0180)
Sample #2	0.0610	(0.0240)
Sample #3	0.1040	(0.0120)
Sample #4	0.0680	(0.0370)
Aug % Abs	0.0777	(0.0243)
STD DEV	0.0231	(0.0125)
REL STD DEV	29.707	(51.384)

<<<< CHANNEL 2 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.2160	(-0.0130)
Sample #2	0.1440	(0.0240)
Sample #3	0.1870	(0.0120)
Sample #4	0.1770	(0.0110)
Aug % Abs	0.1693	(0.0157)
STD DEV	0.0225	(0.0072)
REL STD DEV	13.288	(46.176)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum lo = 12860, Sum lo = 13039

<<<< CHANNEL 1 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.8270	(0.0050)
Sample #2	0.8160	(0.0230)
Sample #3	0.8220	(0.0100)
Sample #4	0.8420	(0.0210)
Aug % Abs	0.8267	(0.0180)
STD DEV	0.0136	(0.0070)
REL STD DEV	1.647	(38.889)

<<<< CHANNEL 2 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	1.5990	(0.0110)
Sample #2	1.6030	(0.0140)
Sample #3	1.6110	(0.0010)
Sample #4	1.6250	(0.0130)
Aug % Abs	1.6130	(0.0093)
STD DEV	0.0111	(0.0072)
REL STD DEV	0.690	(77.509)

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum lo = 12855, Sum lo = 13038

<<<< CHANNEL 1 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	1.5630	(-0.0060)
Sample #2	1.5620	(-0.0070)
Sample #3	1.5220	(0.0260)
Sample #4	1.5660	(0.0130)
Aug % Abs	1.5500	(0.0107)
STD DEV	0.0243	(0.0166)
REL STD DEV	1.570	(155.843)

<<<< CHANNEL 2 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	3.0000	(-0.0020)
Sample #2	3.0220	(0.0040)
Sample #3	3.0150	(0.0190)
Sample #4	2.9950	(0.0130)
Aug % Abs	3.0107	(0.0120)
STD DEV	0.0140	(0.0075)
REL STD DEV	0.465	(62.915)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum lo = 12854, Sum lo = 13036

<<<< CHANNEL 1 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	1.9100	(0.0190)
Sample #2	1.9110	(0.0260)
Sample #3	1.9260	(0.0230)
Sample #4	1.9110	(0.0330)
Aug % Abs	1.9160	(0.0273)
STD DEV	0.0087	(0.0051)
REL STD DEV	0.452	(18.774)

<<<< CHANNEL 2 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	3.6820	(0.0020)
Sample #2	3.7030	(0.0060)
Sample #3	3.7260	(0.0090)
Sample #4	3.7080	(0.0040)
Aug % Abs	3.7123	(0.0063)
STD DEV	0.0121	(0.0025)
REL STD DEV	0.326	(39.736)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum lo = 12851, Sum lo = 13033

<<<< CHANNEL 1 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	5.4190	(0.0060)
Sample #2	5.4520	(0.0020)
Sample #3	5.4360	(0.0260)
Sample #4	5.4450	(0.0170)
Aug % Abs	5.4443	(0.0150)
STD DEV	0.0080	(0.0121)
REL STD DEV	0.147	(80.829)

<<<< CHANNEL 2 >>>>

Sample	% Abs	(% Abs Ref)
Sample #1	10.1370	(-0.0070)
Sample #2	10.1970	(0.0000)
Sample #3	10.1560	(-0.0050)
Sample #4	10.1430	(0.0100)
Aug % Abs	10.1653	(0.0017)
STD DEV	0.0282	(0.0076)
REL STD DEV	0.277	(458.258)

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***** AUTO CAL DATA *****
<<<<< CHANNEL 1 >>>>>
Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.078
Std Dev = 0.02 Rel Std Dev = 29.71
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.827
Std Dev = 0.01 Rel Std Dev = 1.65
Sol Val = 0.3810 mg/l or 0.080 g/210L
% Abs = 1.550
Std Dev = 0.02 Rel Std Dev = 1.57
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.916
Std Dev = 0.01 Rel Std Dev = 0.45
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.444
Std Dev = 0.01 Rel Std Dev = 0.15
Zero Order Coef = -204.99
First Order Coef = 2554.04
Second Order Coef = 19.77
Standard Deviation = 9.207970

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<<<<< CHANNEL 2 >>>>>
Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.169
Std Dev = 0.02 Rel Std Dev = 13.29
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.613
Std Dev = 0.01 Rel Std Dev = 0.69
Sol Val = 0.3810 mg/l or 0.080 g/210L
% Abs = 3.011
Std Dev = 0.01 Rel Std Dev = 0.47
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.712
Std Dev = 0.01 Rel Std Dev = 0.33
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 10.165
Std Dev = 0.03 Rel Std Dev = 0.28
Zero Order Coef = -218.78
First Order Coef = 1296.13
Second Order Coef = 12.85
Standard Deviation = 6.315315

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: Solution Stats Quadratic Fit Chan 1 :
: Act      Fit      Residual :
: g/210L   g/210L   g/210L   :
: 0.000    -0.000    0.0001   :
: 0.040    0.040    -0.0003  :
: 0.080    0.080    0.0002   :
: 0.100    0.100    0.0000   :
: 0.300    0.300    -0.0000  :
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: Solution Stats Quadratic Fit Chan 2 :
: Act      Fit      Residual :
: g/210L   g/210L   g/210L   :
: 0.000    0.000    -0.0000  :
: 0.040    0.040    -0.0000  :
: 0.080    0.080    0.0002   :
: 0.100    0.100    -0.0002  :
: 0.300    0.300    0.0000   :
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Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%
Samples Taken = 4, Discarded = 1

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***** CHANNEL 1
Sample #1 = 3393.00
Sample #2 = 3425.00
Sample #3 = 3415.00
Sample #4 = 3347.00
Average Result = 3395.6667
STD DEV = 42.4421
REL STD DEV = 1.250

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*****
***** CHANNEL 2
Sample #1 = 3387.00
Sample #2 = 3383.00
Sample #3 = 3419.00
Sample #4 = 3374.00
Average Result = 3392.0000
STD DEV = 23.8118
REL STD DEV = 0.702

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*****
Dry Gas H2O Adjust Results *****
Atmospheric Pressure = 956
3 um H2O Adjust (mg/l*10,000) = 414
9 um H2O Adjust (mg/l*10,000) = 417
**** AUTO CAL PASS

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