



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

**INTOXILYZER® 8000 CALIBRATION ADJUSTMENT**

Intoxilyzer® 8000 Serial Number: 80-00 4939 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  $\geq 10$
  - Auto Range Res Value  $\geq 4$
2. Simulator Solutions for Calibration Adjustment

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA-Milli-Q H <sub>2</sub> O	NA-Milli-Q H <sub>2</sub> O	MP3066
2	0.040	2022111A	09 Nov 23	MP6040
3	0.080	2022110C	26 Oct 23	MP5320
4	0.100	202304A	04 Apr 25	MP5290
5	0.300	202201P	18 Jan 24	MP3059

3. 0.080 AC Calibration Gas for H<sub>2</sub>O Adjustment  
 Lot No. 2002108DA1 Cyl No. 20 Exp. Date: 10/5/23

4. Atmospheric Pressure
  - Displayed by Intoxilyzer® 8000 904 mbar
  - Adjusted to using barometer 961 mbar
  - Auto Calibration Report printout 960 mbar
  - Barometer Model 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  $\leq 0.2500$
  - Solution 2-5 REL STD DEV  $\leq 3.000$

Residual (g/210 L) values for solutions 1 - 5  $\leq 0.0020$  for 3  $\mu\text{m}$  and 9  $\mu\text{m}$  channels

Dry Gas H<sub>2</sub>O adjustment sum for 3  $\mu\text{m}$  and 9  $\mu\text{m}$  channels within  $\pm 10$

3  $\mu\text{m}$  3280.3 (Ave.) + 529 (H<sub>2</sub>O Adj.) = 3809.3

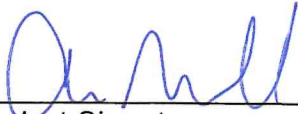
9  $\mu\text{m}$  3390.4 (Ave.) + 419 (H<sub>2</sub>O Adj.) = 3809.6

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: NIA

  
Analyst Signature

22 June 2023  
Date

  
Reviewer Signature

22 June 2023  
Date

WARD  
Intoxilyzer - Alcohol Analyzer  
Model 8000 SN 80-004939  
06/22/2023 10:21:50

Auto Calibration  
Max Power Res Value = 17  
Auto Range Res Value = 6

Auto Calibration Printout

*Am Hill*

WARD  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-004939  
 06/22/2023 10:21:50

Auto Calibration

pg 1 of 2

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    <<<<<      3um      >>>>>
    -----
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.1110      (-0.0170)        0.1470      (0.0000)
Sample #2     0.0940      (0.0240)         0.1250      (0.0320)
Sample #3     0.0970      (0.0440)         0.1450      (0.0300)
Sample #4     0.0600      (0.0680)         0.1230      (0.0490)
Avg % Abs     0.0837      (0.0453)         0.1310      (0.0370)
STD DEV       0.0206      (0.0220)         0.0122      (0.0104)
REL STD DEV   24.563      (48.596)         9.287       (28.217)
  
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    <<<<<      9um      >>>>>
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Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.8700      (-0.0110)        1.5180      (-0.0050)
Sample #2     0.7960      (0.0550)         1.5420      (0.0330)
Sample #3     0.7840      (0.0670)         1.5280      (0.0360)
Sample #4     0.7810      (0.0700)         1.5280      (0.0360)
Avg % Abs     0.7870      (0.0640)         1.5327      (0.0350)
STD DEV       0.0079      (0.0079)         0.0081      (0.0017)
REL STD DEV   1.009      (12.402)         0.527       (4.949)
  
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    <<<<<      3um      >>>>>
    -----
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.5740      (-0.0210)        2.8740      (-0.0170)
Sample #2     1.5190      (0.0520)         2.8710      (0.0480)
Sample #3     1.5300      (0.0390)         2.8930      (0.0460)
Sample #4     1.5240      (0.0500)         2.8730      (0.0480)
Avg % Abs     1.5243      (0.0470)         2.8790      (0.0473)
STD DEV       0.0055      (0.0070)         0.0122      (0.0012)
REL STD DEV   0.361      (14.894)         0.423       (2.440)
  
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    <<<<<      9um      >>>>>
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Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.9390      (0.0160)         3.5710      (-0.0100)
Sample #2     1.8710      (0.0840)         3.5540      (0.0490)
Sample #3     1.8860      (0.0860)         3.5540      (0.0720)
Sample #4     1.8920      (0.0780)         3.5540      (0.0800)
Avg % Abs     1.8830      (0.0827)         3.5540      (0.0670)
STD DEV       0.0108      (0.0042)         0.0000      (0.0161)
REL STD DEV   0.574      (5.036)         0.000       (24.020)
  
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    <<<<<      3um      >>>>>
    -----
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     5.2510      (-0.0100)        9.6810      (-0.0180)
Sample #2     5.2580      (0.0890)         9.7390      (0.1240)
Sample #3     5.2860      (0.0920)         9.7400      (0.1540)
Sample #4     5.2400      (0.1070)         9.7150      (0.1560)
Avg % Abs     5.2613      (0.0960)         9.7313      (0.1447)
STD DEV       0.0232      (0.0096)         0.0142      (0.0179)
REL STD DEV   0.441      (10.045)         0.145       (12.391)
  
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WARD  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-004939  
 06/22/2023 10:21:50

Auto Calibration

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-192.30			-176.00	
First Order Coef	2579.47			1336.71	
Second Order Coef	32.68			15.35	
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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	-0.0005	0.000	-0.000	0.0000
0.040	0.039	0.0010	0.040	0.040	-0.0001
0.080	0.080	-0.0001	0.080	0.080	0.0002
0.100	0.100	-0.0004	0.100	0.100	-0.0001
0.300	0.300	0.0000	0.300	0.300	0.0000
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<<<<< 3um >>>>>		<<<<< 9um >>>>>	
-----		-----	
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3262.00	3361.00	
Sample #2	3276.00	3373.00	
Sample #3	3316.00	3399.00	
Sample #4	3249.00	3400.00	
Avg	3280.3333	3390.6667	
STD DEV	33.7095	15.3080	
REL STD DEV	1.028	0.451	
H2O adjust (mg/l*10k)	529	419	

Atmospheric Pressure = 960

\*\*\*\*\*CALIBRATION SUCCESSFUL\*\*\*\*\*