



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 6691 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	28mar25	MP5289
3	0.080	202302B	14Feb25	MP3067
4	0.100	202304A	04Apr25	MP6038
5	0.300	202402C	14Feb26	MP3062

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 958 mbar
 Adjusted to using barometer 959 mbar
 Auto Calibration Report printout 959 mbar
 Barometer Model 10510-922
 Barometer Serial Number 230307250
 Barometer Calibration Expiration Date 02May25

5. Screen displayed "Calibration Success"

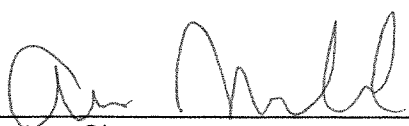
6. Calibration Adjustment Printout Attached

- 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 3546 (Ave.) + 203 (H₂O Adj.) = 3809
9 μm 3404 (Ave.) + 405 (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

03Apr2024
Date


Reviewer Signature

04Apr 2024
Date

INTOXILYZER 8000
Instrument Initialization
13:32 04/02/2024

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006651
04/03/2024 07:56:08

Auto Calibration
Max Power Res Value = 67
Auto Range Res Value = 41

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006691
 04/03/2024 07:56:08

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	0.0410	(0.0140)	0.1600	(0.0070)	
Sample #2	0.0400	(0.0880)	0.1570	(0.0290)	
Sample #3	0.0640	(0.1340)	0.1870	(0.0370)	
Sample #4	0.0500	(0.1790)	0.1880	(0.0380)	
Avg % Abs	0.0513	(0.1337)	0.1773	(0.0347)	
STD DEV	0.0121	(0.0455)	0.0176	(0.0049)	
REL STD DEV	23.485	(34.041)	9.934	(14.229)	

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.7770	(-0.0150)	1.5430	(-0.0070)	
Sample #2	0.7470	(0.0150)	1.5140	(0.0060)	
Sample #3	0.7680	(0.0280)	1.5500	(0.0010)	
Sample #4	0.7680	(0.0420)	1.5590	(0.0000)	
Avg % Abs	0.7610	(0.0283)	1.5410	(0.0023)	
STD DEV	0.0121	(0.0135)	0.0238	(0.0032)	
REL STD DEV	1.593	(47.658)	1.545	(137.766)	

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.4800	(-0.0100)	2.8900	(0.0010)	
Sample #2	1.4780	(0.0150)	2.9250	(0.0070)	
Sample #3	1.4620	(0.0390)	2.9020	(0.0170)	
Sample #4	1.4830	(0.0420)	2.8850	(0.0370)	
Avg % Abs	1.4743	(0.0320)	2.9040	(0.0203)	
STD DEV	0.0110	(0.0148)	0.0201	(0.0153)	
REL STD DEV	0.744	(46.246)	0.691	(75.124)	

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.8160	(0.0120)	3.5650	(0.0120)	
Sample #2	1.8410	(0.0050)	3.5720	(0.0050)	
Sample #3	1.8350	(0.0190)	3.5650	(0.0200)	
Sample #4	1.8360	(0.0320)	3.5650	(0.0200)	
Avg % Abs	1.8373	(0.0187)	3.5673	(0.0150)	
STD DEV	0.0032	(0.0135)	0.0040	(0.0087)	
REL STD DEV	0.175	(72.338)	0.113	(57.735)	

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	5.2240	(-0.0080)	9.7660	(-0.0080)	
Sample #2	5.2370	(0.0080)	9.8020	(0.0130)	
Sample #3	5.2440	(0.0040)	9.7970	(0.0070)	
Sample #4	5.1770	(0.0230)	9.7490	(0.0300)	
Avg % Abs	5.2193	(0.0117)	9.7827	(0.0167)	
STD DEV	0.0368	(0.0100)	0.0293	(0.0119)	
REL STD DEV	0.706	(85.857)	0.299	(71.582)	

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006691
 04/03/2024 07:56:08

Auto Calibration

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Zero Order Coef	-123.27		Zero Order Coef	-231.87	
First Order Coef	2620.18		First Order Coef	1354.44	
Second Order Coef	26.87		Second Order Coef	13.23	
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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	-0.0002
0.040	0.040	0.0004	0.040	0.040	0.0004
0.080	0.080	0.0002	0.080	0.080	-0.0001
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 >>>>>	
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3528.00	3384.00	
Sample #2	3504.00	3404.00	
Sample #3	3607.00	3414.00	
Sample #4	3528.00	3396.00	
Avg	3546.3333	3404.6667	
STD DEV	53.8919	9.0185	
REL STD DEV	1.520	0.265	
H2O adjust (mg/l*10k)	263	405	

Atmospheric Pressure = 959

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