NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4947 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_2O	NA-Milli-Q H_2O	MP5321
2	0.040	202303H	28Mar25	MP5289
3	0.080	202302B	14Feb25	MP3067
4	0.100	202304A	04Apr25	MP4038
5	0.300	202402C	14Feb26	MP3062

3. 0.080 AC Calibration Gas for H_2O Adjustment
   Lot No. 14323080A4 Cyl No. 13 Exp. Date: 6/5/25
4. Atmospheric Pressure
   - Displayed by Intoxilyzer® 8000 929 mbar
   - Adjusted to using barometer 949 mbar
   - Auto Calibration Report printout 949 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 µm and 9 µm channels

☒ Dry Gas H_2O adjustment sum for 3 µm and 9 µm channels within ± 10
3 µm 3400 (Ave.) + 409 (H_2O Adj.) = 3809
9 µm 3371 (Ave.) + 438 (H_2O 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 — Date: 09Apr2024

Reviewer Signature — Date: 16 Apr 2024

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004947
04/09/2024 14:09:39

Auto Calibration
Max Power Res Value = 35
Auto Range Res Value = 16

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Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004947
04/09/2024 14:09:39

Auto Calibration

	<<<<< 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	0.1280	(0.0070)	0.1920	(0.0250)
Sample #2	0.0950	(0.0950)	0.2040	(0.0150)
Sample #3	0.0690	(0.1580)	0.1850	(0.0550)
Sample #4	0.0930	(0.1770)	0.1800	(0.0620)
Avg % Abs	0.0857	(0.1433)	0.1897	(0.0440)
STD DEV	0.0145	(0.0429)	0.0127	(0.0254)
REL STD DEV	16.889	(29.946)	6.676	(57.631)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7670	(-0.0180)	1.5510	(0.0010)
Sample #2	0.7800	(-0.0070)	1.5400	(0.0400)
Sample #3	0.7810	(0.0160)	1.5500	(0.0460)
Sample #4	0.7850	(0.0200)	1.5490	(0.0420)
Avg % Abs	0.7820	(0.0097)	1.5463	(0.0427)
STD DEV	0.0026	(0.0146)	0.0055	(0.0031)
REL STD DEV	0.338	(150.741)	0.356	(7.160)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4730	(-0.0140)	2.9360	(-0.0020)
Sample #2	1.5140	(-0.0150)	2.9560	(0.0240)
Sample #3	1.5010	(0.0000)	2.9350	(0.0400)
Sample #4	1.5210	(-0.0060)	2.9310	(0.0370)
Avg % Abs	1.5120	(-0.0070)	2.9407	(0.0337)
STD DEV	0.0101	(0.0075)	0.0134	(0.0085)
REL STD DEV	0.671	(107.855)	0.457	(25.262)
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.8520	(-0.0020)	3.5920	(0.0070)
Sample #2	1.8620	(0.0200)	3.6260	(0.0060)
Sample #3	1.8490	(0.0510)	3.6330	(0.0140)
Sample #4	1.8600	(0.0380)	3.6420	(0.0190)
Avg % Abs	1.8570	(0.0363)	3.6337	(0.0130)
STD DEV	0.0070	(0.0156)	0.0080	(0.0066)
REL STD DEV	0.377	(42.845)	0.221	(50.442)
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.2190	(0.0060)	9.8140	(-0.0060)
Sample #2	5.2970	(0.0080)	9.9270	(0.0040)
Sample #3	5.2820	(0.0230)	9.9520	(0.0040)
Sample #4	5.2670	(0.0300)	9.9460	(0.0160)
Avg % Abs	5.2820	(0.0203)	9.9417	(0.0080)
STD DEV	0.0150	(0.0112)	0.0131	(0.0069)
REL STD DEV	0.284	(55.278)	0.131	(86.603)

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Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Zero Order Coef	-210.02		-231.84	
First Order Coef	2642.37		1335.99	
Second Order Coef	19.27		12.47	
	Act (g/210L)	Fit (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
	0.000	0.000	-0.0003	0.000	0.000	-0.0005
	0.040	0.039	0.0008	0.040	0.039	0.0009
	0.080	0.080	-0.0004	0.080	0.080	0.0001
	0.100	0.100	-0.0000	0.100	0.101	-0.0005
	0.300	0.300	0.0000	0.300	0.300	0.0001

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1		
Sample		
Sample #1	3357.00	3370.00
Sample #2	3417.00	3392.00
Sample #3	3395.00	3376.00
Sample #4	3388.00	3347.00
Avg	3400.0000	3371.6667
STD DEV	15.1327	22.8108
REL STD DEV	0.445	0.677
H2O adjust (mg/l*10k)	409	438

Atmospheric Pressure = 949

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