NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

## INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5357 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 $H_2O$ | MP3066 |
| 2 | 0.040 | 202111A | 09Nov23 | MP6040 |
| 3 | 0.080 | 202110C | 26Oct23 | MP5320 |
| 4 | 0.100 | 202304A | 04Apr25 | MP5290 |
| 5 | 0.300 | 202201F | 18Jan24 | MP3059 |

3. 0.080 AC Calibration Gas for $H_2O$ Adjustment
   Lot No. 26021080A1 Cyl No. 20 Exp. Date: 10/5/23
4. Atmospheric Pressure

| | |
|---|---|
| Displayed by Intoxilyzer® 8000 | 961 mbar |
| Adjusted to using barometer | 958 mbar |
| Auto Calibration Report printout | 961 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 ≤ 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 3494 (Ave.) + 315 ($H_2O$ Adj.) = 3809

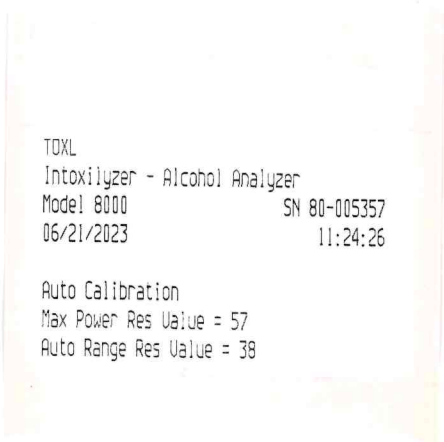
9 µm 3391.3 (Ave.) + 418 ($H_2O$ Adj.) = 3809.3

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: N/A

Analyst Signature — Date: 21June2023

Reviewer Signature — Date: 23 June 2023



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005357
06/21/2023 11:24:26

Auto Calibration
Max Power Res Value = 57
Auto Range Res Value = 38

Auto Calibration Printout

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005357
06/21/2023 11:24:26

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 | 0.0610 | (0.0100) | 0.1160 | (-0.0060) |
| Sample #2 | 0.0250 | (0.0630) | 0.0760 | (0.0310) |
| Sample #3 | 0.0100 | (0.0940) | 0.1100 | (0.0250) |
| Sample #4 | 0.0540 | (0.1000) | 0.1170 | (0.0240) |
| Avg % Abs | 0.0297 | (0.0857) | 0.1010 | (0.0267) |
| STD DEV | 0.0224 | (0.0199) | 0.0219 | (0.0038) |
| REL STD DEV | 75.398 | (23.180) | 21.715 | (14.197) |
| Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 0.7450 | (-0.0110) | 1.4030 | (-0.0180) |
| Sample #2 | 0.7440 | (0.0300) | 1.4830 | (-0.0330) |
| Sample #3 | 0.7480 | (0.0100) | 1.4580 | (-0.0310) |
| Sample #4 | 0.7380 | (0.0360) | 1.4640 | (-0.0230) |
| Avg % Abs | 0.7433 | (0.0253) | 1.4683 | (-0.0290) |
| STD DEV | 0.0050 | (0.0136) | 0.0131 | (0.0053) |
| REL STD DEV | 0.677 | (53.738) | 0.889 | (18.247) |
| Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.4350 | (0.0190) | 2.7580 | (0.0200) |
| Sample #2 | 1.4660 | (0.0120) | 2.7660 | (0.0530) |
| Sample #3 | 1.4940 | (0.0070) | 2.8070 | (0.0420) |
| Sample #4 | 1.4810 | (0.0120) | 2.8030 | (0.0380) |
| Avg % Abs | 1.4803 | (0.0103) | 2.7920 | (0.0443) |
| STD DEV | 0.0140 | (0.0029) | 0.0226 | (0.0078) |
| REL STD DEV | 0.947 | (27.936) | 0.810 | (17.521) |
| Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.7800 | (0.0060) | 3.4400 | (0.0090) |
| Sample #2 | 1.8080 | (0.0180) | 3.4840 | (0.0500) |
| Sample #3 | 1.8470 | (0.0040) | 3.5030 | (0.0310) |
| Sample #4 | 1.8480 | (0.0010) | 3.4590 | (0.0450) |
| Avg % Abs | 1.8343 | (0.0077) | 3.4820 | (0.0420) |
| STD DEV | 0.0228 | (0.0091) | 0.0221 | (0.0098) |
| REL STD DEV | 1.244 | (118.354) | 0.634 | (23.450) |
| Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 5.1300 | (0.0000) | 9.4220 | (-0.0010) |
| Sample #2 | 5.2370 | (0.0240) | 9.6050 | (0.0360) |
| Sample #3 | 5.2440 | (0.0200) | 9.5970 | (0.0490) |
| Sample #4 | 5.2170 | (0.0150) | 9.5640 | (0.0460) |
| Avg % Abs | 5.2327 | (0.0197) | 9.5887 | (0.0437) |
| STD DEV | 0.0140 | (0.0045) | 0.0217 | (0.0068) |
| REL STD DEV | 0.268 | (22.928) | 0.227 | (15.588) |

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005357
06/21/2023 11:24:26

Auto Calibration 

| | <<<<< 3um >>>>> | <<<<< 9um >>>>> |
|---|---|---|
| Zero Order Coef | -60.39 | -130.97 |
| First Order Coef | 2574.61 | 1360.71 |
| Second Order Coef | 31.87 | 14.88 |

| Act (g/210L) | Fit (g/210L) | Residual (g/210L) | Act (g/210L) | Fit (g/210L) | Residual (g/210L) |
|---|---|---|---|---|---|
| 0.000 | 0.000 | -0.0003 | 0.000 | 0.000 | -0.0001 |
| 0.040 | 0.039 | 0.0007 | 0.040 | 0.040 | 0.0001 |
| 0.080 | 0.080 | -0.0002 | 0.080 | 0.079 | 0.0005 |
| 0.100 | 0.100 | -0.0002 | 0.100 | 0.101 | -0.0005 |
| 0.300 | 0.300 | 0.0000 | 0.300 | 0.300 | 0.0000 |

| | <<<<< 3um >>>>> | <<<<< 9um >>>>> |
|---|---|---|

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1

| Sample | | |
|---|---|---|
| Sample #1 | 3565.00 | 3428.00 |
| Sample #2 | 3520.00 | 3386.00 |
| Sample #3 | 3420.00 | 3377.00 |
| Sample #4 | 3542.00 | 3411.00 |
| Avg | 3494.0000 | 3391.3333 |
| STD DEV | 65.0231 | 17.6163 |
| REL STD DEV | 1.861 | 0.519 |
| H2O adjust (mg/l*10k) | 315 | 418 |

Atmospheric Pressure = 961

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