## INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-005946 Location: TOXL

A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1. ☒ Replaced o-rings if damaged
2. Flow Meter Serial Number: 55260 & 40655
3. Air Supplied to Intoxilyzer® 8000 at:
   a. ☒ 5 L/min ☒ 15 L/min ☒ 30 L/min
4. ☒ Flow Rate Calibration Printout Attached
   a. ☒ Correlation ≥ 0.99000
5. ☒ Flow Sensor Calibration Verification (Level 3,D,F)
   a. 10 L/min: 0.171 L/S X 60 Sec/min = 10.26 L/min
   b. 20 L/min: 0.324 L/S X 60 Sec/min = 19.44 L/min
   c. ☒ Flow Rates within ± 1 L/min of Expected Value

B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 950 psi Regulator: 975 psi
2. ☒ Display and Regulator within 50 psi
3. ☒ Completed tare of tank sensor if needed (Level 3,M,C,G)

C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
1. ☒ Autocalibration Printout Attached
   a. ☒ Max Power Res Value ≥ 10
   b. ☒ Auto Range Res Value ≥ 4
2. Simulator Solutions for Optical Bench Calibration Adjustment
   a. ☒ Set # Solutions to Run at 5

| Soln. | g/210 L | Lot No. | Exp. Date | Simulator SN |
|---|---|---|---|---|
| 1 | Nom. 0.000 (Actual) | NA – MilliQ $H_2O$ | NA – MilliQ $H_2O$ | MP3057 |
| 2 | 0.040 (0.041) | 202003A | 3·10·22 | MP3059 |
| 3 | 0.080 (0.080) | 21050 | 2·15·23 | MP5318 |
| 4 | 0.100 (0.102) | 202010E | 10·20·22 | MP3003 |
| 5 | 0.300 (0.298) | 20030 | 1·21·22 | MP3069 |

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 072201001A1 Cyl No. 4 Exp. Date: 5·5·22
4. Atmospheric Pressure
   a. 952 mbar Displayed by Intoxilyzer® 8000
   b. 952 mbar Adjusted to using barometer
   c. 951 mbar on Auto Calibration Report printout
5. ☒ Screen displayed "Calibration Success"

6. [X] Calibration Adjustment Printout Attached
   a. [X] Solution 1 Avg % Abs ≤ 0.2500
   b. [X] Solution 2-5 REL STD DEV ≤ 3.000
   c. [X] Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 μm and 9 μm channels
   d. [X] Dry Gas H2O Adjustment Sum for 3 μm and 9 μm channels within ± 10

| | Average | | $H_2O$ Adjust | | |
|---|---|---|---|---|---|
| 3 μm | 4265 | + | 496 | = | 4761 |
| 9 μm | 4357 | + | 404 | = | 4761 |

7. [X] Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.030 AC
      Sim. SN: MP5289 Lot No.: 2019 11E Exp. Date: 11.19.21
      ii. High AC Known Value ≥ 0.25 AC: 0.400 AC
      Sim. SN: MP3062 Lot No.: 202103E Exp. Date: 3.24.23
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 05620080A1 Cyl No. 6 Exp. Date: 4.5.22
      Test 1 ~~0.080~~ 0.081 AC Test 4 0.080 AC Test 7 0.080 AC
      Test 2 0.080 AC Test 5 0.081 AC Test 8 0.080 AC
      Test 3 0.081 AC Test 6 0.080 AC Test 9 0.081 AC
      Average 0.080 AC
   c. [X] Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.

D. Remarks/Maintenance: CAL. ADJUST DUE TO LOW AC STD OF 0.030 AC READING 0.026 AC DURING TESTING. STILL WITHIN TOLERANCE OF ± 0.005 AC OR ± 5% WHICHEVER IS GREATER.

[X] Instrument is acceptable to be used in the field.

Breath Analyst Signature — Date: 6/2/21

Reviewed by — Date: 6-7-21

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005946
Location = TOXL 8164.14.00 09/16
06/02/2021 10:22
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 6.855
2: Rate (Liters/min) = 15
SQRT(Diff)) = 12.527
3: Rate (Liters/min) = 30
SQRT(Diff)) = 22.000
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 642
Rounded Intercept = -600927
Correlation = 0.99958

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005946
06/02/2021 10:27:09

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 | 0.1390 | (-0.0200) | 0.1850 | (-0.0100) |
| Sample #2 | 0.1000 | (0.0560) | 0.1500 | (0.0120) |
| Sample #3 | 0.0630 | (0.1280) | 0.1330 | (0.0390) |
| Sample #4 | 0.0660 | (0.1640) | 0.1410 | (0.0390) |
| Avg % Abs | 0.0763 | (0.1160) | 0.1413 | (0.0300) |
| STD DEV | 0.0206 | (0.0550) | 0.0085 | (0.0156) |
| REL STD DEV | 26.922 | (47.406) | 6.018 | (51.962) |
| Solution = 0.041 g/210L or 0.1952 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 0.7620 | (-0.0210) | 1.5080 | (-0.0140) |
| Sample #2 | 0.7250 | (0.0240) | 1.4230 | (0.0500) |
| Sample #3 | 0.7310 | (0.0280) | 1.4290 | (0.0520) |
| Sample #4 | 0.7150 | (0.0340) | 1.4390 | (0.0470) |
| Avg % Abs | 0.7237 | (0.0287) | 1.4303 | (0.0497) |
| STD DEV | 0.0081 | (0.0050) | 0.0081 | (0.0025) |
| REL STD DEV | 1.117 | (17.558) | 0.565 | (5.067) |
| Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.4260 | (-0.0120) | 2.8520 | (0.0080) |
| Sample #2 | 1.3950 | (0.0090) | 2.8030 | (0.0390) |
| Sample #3 | 1.4040 | (0.0240) | 2.8000 | (0.0470) |
| Sample #4 | 1.3610 | (0.0510) | 2.7650 | (0.0620) |
| Avg % Abs | 1.3867 | (0.0280) | 2.7893 | (0.0493) |
| STD DEV | 0.0227 | (0.0213) | 0.0211 | (0.0117) |
| REL STD DEV | 1.636 | (76.014) | 0.757 | (23.668) |
| Solution = 0.102 g/210L or 0.4857 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.7680 | (-0.0200) | 3.5550 | (-0.0220) |
| Sample #2 | 1.7280 | (0.0120) | 3.4680 | (0.0260) |
| Sample #3 | 1.7470 | (0.0330) | 3.4960 | (0.0290) |
| Sample #4 | 1.7170 | (0.0390) | 3.4740 | (0.0440) |
| Avg % Abs | 1.7307 | (0.0280) | 3.4793 | (0.0330) |
| STD DEV | 0.0152 | (0.0142) | 0.0147 | (0.0096) |
| REL STD DEV | 0.877 | (50.634) | 0.424 | (29.223) |
| Solution = 0.298 g/210L or 1.4190 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 4.8750 | (0.0020) | 9.6210 | (-0.0120) |
| Sample #2 | 4.8840 | (0.0300) | 9.5600 | (0.0640) |
| Sample #3 | 4.8550 | (0.0380) | 9.5720 | (0.0600) |
| Sample #4 | 4.8950 | (0.0380) | 9.5660 | (0.0810) |
| Avg % Abs | 4.8780 | (0.0353) | 9.5660 | (0.0683) |
| STD DEV | 0.0207 | (0.0046) | 0.0060 | (0.0112) |
| REL STD DEV | 0.424 | (13.072) | 0.063 | (16.318) |

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005946
06/02/2021 10:27:09

Auto Calibration



| | <<<<< 3um >>>>> | <<<<< 9um >>>>> |
|---|---|---|
| Zero Order Coef | -201.65 | -164.83 |
| First Order Coef | 2903.71 | 1413.30 |
| Second Order Coef | 9.53 | 9.10 |

| Act (g/210L) | Fit (g/210L) | Residual (g/210L) | Act (g/210L) | Fit (g/210L) | Residual (g/210L) |
|---|---|---|---|---|---|
| 0.000 | 0.000 | -0.0004 | 0.000 | 0.001 | -0.0007 |
| 0.041 | 0.040 | 0.0010 | 0.041 | 0.039 | 0.0016 |
| 0.080 | 0.081 | -0.0007 | 0.080 | 0.081 | -0.0008 |
| 0.102 | 0.102 | 0.0001 | 0.102 | 0.102 | -0.0001 |
| 0.298 | 0.298 | 0.0000 | 0.298 | 0.298 | 0.0001 |

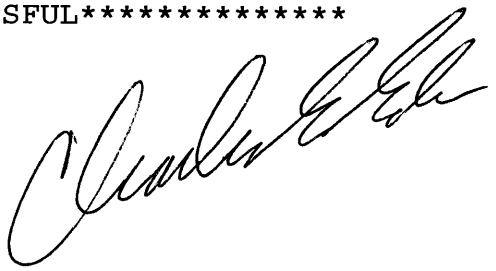
| | <<<<< 3um >>>>> | <<<<< 9um >>>>> |
|---|---|---|

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1

| Sample | | |
|---|---|---|
| Sample #1 | 4366.00 | 4509.00 |
| Sample #2 | 4336.00 | 4342.00 |
| Sample #3 | 4256.00 | 4340.00 |
| Sample #4 | 4205.00 | 4389.00 |
| Avg | 4265.6665 | 4357.0000 |
| STD DEV | 66.0328 | 27.7308 |
| REL STD DEV | 1.548 | 0.636 |
| H2O adjust (mg/l*10k) | 496 | 404 |

Atmospheric Pressure = 952

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



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005946
06/02/2021 10:27:09

Auto Calibration
Max Power Res Value = 18
Auto Range Res Value = 4

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-005946
Location = TOXL — 8164.14.00 09/16
06/02/2021 — 11:09

WET CAL CHECK

| Test | AC | Time |
|---|---|---|
| 01 Room Air | 0.000 | 11:09 |
| 02 Std. Sol. | 0.031 | 11:10 |
| 03 Room Air | 0.000 | 11:10 |
| 04 Std. Sol. | 0.031 | 11:11 |
| 05 Room Air | 0.000 | 11:12 |
| 06 Std. Sol. | 0.032 | 11:12 |
| 07 Room Air | 0.000 | 11:13 |

08 Sim Temp = 34.0°C

Simul Ser No = MP5289
Std Sol No = 201911E
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: LOW AC
0.030 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005946
Location = TOXL 8164.14.00 09/16
06/02/2021 11:14

WET CAL CHECK

| Test | AC | Time |
|---|---|---|
| 01 Room Air | 0.000 | 11:14 |
| 02 Std. Sol. | 0.396 | 11:15 |
| 03 Room Air | 0.000 | 11:16 |
| 04 Std. Sol. | 0.397 | 11:17 |
| 05 Room Air | 0.000 | 11:17 |
| 06 Std. Sol. | 0.398 | 11:18 |
| 07 Room Air | 0.000 | 11:18 |

08 Sim Temp = 34.0°C

Simul Ser No = MP3062
Std Sol No = 202103E
County = 08 Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: 17614 AC
0.400 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-005946
Location = TOXL — 8164.14.00 09/16
06/02/2021 — 11:19

DRY CAL CHECK

| Test | AC | Time |
|---|---|---|
| 01 Room Air | 0.000 | 11:20 |
| 02 Std. Gas | 0.081 | 11:20 |
| 03 Room Air | 0.000 | 11:20 |
| 04 Std. Gas | 0.080 | 11:21 |
| 05 Room Air | 0.000 | 11:21 |
| 06 Std. Gas | 0.081 | 11:22 |
| 07 Room Air | 0.000 | 11:22 |

Lot No = 05620080A1
Cyl No = 6
Exp Date = 04/05/2022
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-005946
Location = TOXL — 8164.14.00 09/16
06/02/2021 — 11:22

DRY CAL CHECK

| Test | AC | Time |
|---|---|---|
| 01 Room Air | 0.000 | 11:23 |
| 02 Std. Gas | 0.080 | 11:23 |
| 03 Room Air | 0.000 | 11:24 |
| 04 Std. Gas | 0.081 | 11:24 |
| 05 Room Air | 0.000 | 11:25 |
| 06 Std. Gas | 0.080 | 11:25 |
| 07 Room Air | 0.000 | 11:26 |

Lot No = 05620080A1
Cyl No = 6
Exp Date = 04/05/2022
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005946
Location = TOXL 8164.14.00 09/16
06/02/2021 11:26

DRY CAL CHECK

| Test | AC | Time |
|---|---|---|
| 01 Room Air | 0.000 | 11:26 |
| 02 Std. Gas | 0.080 | 11:27 |
| 03 Room Air | 0.000 | 11:27 |
| 04 Std. Gas | 0.080 | 11:28 |
| 05 Room Air | 0.000 | 11:28 |
| 06 Std. Gas | 0.081 | 11:29 |
| 07 Room Air | 0.000 | 11:29 |

Lot No = 05620080A1
Cyl No = 6
Exp Date = 04/05/2022
County = 08 Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000