BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 536/ Location: TOXL

- Flow Sensor Calibration and Verification Check (Level 3,M,C,F) Α.
 - Replaced o-rings if damaged ADJUST
 - 55260 40655 Flow Meter Serial Number: 2.
 - Air Supplied to Intoxilyzer® 8000 at: 3.
 - 4.
 - ✓ Correlation ≥ 0.99000
 - ▼Flow Sensor Calibration Verification (Level 3,D,F) 5.
 - 10 L/min: 0. <u>167</u> L/S X 60 Sec/min = 10.02 L/min
 - 20 L/min: 0. 320 L/S X 60 Sec/min = ___/9.20__ L/min b.
 - Flow Rates within ± 1 L/min of Expected Value
- B. Gas Tank Sensor Check (Level 3,D,G)
 - Display: 347 psi Regulator: 350 psi
 - ★ Display and Regulator within 50 psi 2.
 - ★ Completed tare of tank sensor if needed (Level 3,M,C,G)
- C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
 - XAutocalibration Printout Attached
 - Max Power Res Value ≥ 10
 - Auto Range Res Value ≥ 4
 - Simulator Solutions for Optical Bench Calibration Adjustment 2. Set # Solutions to Run at 5

| Soln. | g/210 L | | Lot No. | Exp. Date | Simulator SN |
|-------|-------------------|---------|--------------------|------------------------------|--------------|
| 1 | 0.000 (ACTUAL) | | NA – MilliQ H₂O | NA – MilliQ H ₂ O | DR7111 |
| 2 | 0.040 | (0.040) | 2018081) | 8.22.20 | DR7351 |
| 3 | ୦.୦୫୦ | (0.081) | 201807C | 7.25.20 | DR5114 |
| 4 | 0.150 | (0.151) | 201811E | 11.26.20 | DR5131 |
| 5 | 0.300 | (0.298) | 19010 | 1.3.21 | DR7346 |

- 0.100 AC Calibration Gas for H2O Adjustment 3.
 - Lot No. 13518100 A3 Cyl No. 4 Exp. Date: 8.520
- 4.
 - Atmospheric Pressure
 a. 975 mbar Displayed by Intoxilyzer® 8000
 - 957 mbar Adjusted to using barometer b.
 - 957 mbar on Auto Calibration Report printout
- X Screen displayed "Calibration Success" 5.

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

| 6. | ズ Calibration Adjustment Printout Attached |
|-------------------------|---|
| 0. | a. X Solution 1 Avg % Abs ≤ 0.2500 |
| | b. X Solution 2-5 REL STD DEV ≤ 3.000 |
| | c. Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 |
| | μ m and 9 μ m channels |
| | d. XDry Gas H2O Adjustment Sum for 3 μm and 9 μm |
| | channels within + 10 |
| | Average H ₂ O Adjust |
| | $3 \mu m 4426 + 335 = 4761$ |
| | Average H_2O Adjust $3 \mu m = \frac{4426}{4356} + \frac{335}{405} = \frac{4761}{405} = \frac{4761}{405}$ |
| 7. | ▼ Optical Bench Calibration Verification (Level 1, S and C) |
| | Wet Calibration Check |
| | i. Low AC Known Value ≤ 0.03 AC: 0.02 O AC |
| | Sim. SN: <u>MP3061</u> Lot No.: <u>2018 (6D</u> Exp. Date: 10.24.26 |
| | ii. High AC Known Value ≥ 0.25 AC: のんちつ AC |
| | Sim. SN: <u>MP3067</u> Lot No.: <u>201911B</u> Exp. Date: //-5-21 |
| b. | Dry Calibration Check: Known Value 0.08 AC |
| | Lot No. 24/19080A1 Cyl No. 9 Exp. Date: 11.5.21 |
| | Test 1 <u>0.08.2</u> AC Test 4 <u>0.08.2</u> AC Test 7 <u>0.08.1</u> AC Test 2 <u>0.08.1</u> AC Test 8 <u>0.08.1</u> AC |
| | Test 2 0.08/AC Test 5 0.083 AC Test 8 0.081 AC |
| | Test 3 <u>0.081</u> AC Test 6 <u>0.082</u> AC Test 9 <u>0.082</u> AC |
| | Average <u>0.082</u> AC |
| | Wet Calibration Check and Dry Calibration Check AC results are |
| C. | within ± 0.005 or ± 5% (whichever is greater) of stated value. |
| | Within ± 0.005 of ± 5% (whichever is greater) of stated value. |
| D Rema | arks/Maintenance: (AL. ADT. DUE TO ATMOSPHERIC |
| SENSOR R | EAI)ING 975 mbar WHEN ACTUAL ATMOSPHERIC |
| PRESSURE | |
| | |
| | |
| 🏿 Instrument is acc | eptable to be used in the field. |
| 1 | |
| | |
| | Λ Λ Λ |
| / // // // | $\frac{5.15.20}{\text{Date}}$ |
| Date at la Company Cine | Date Date |
| Breath Analyst Sigr | Talure Date |
| | NA |
| Reviewed by | Date |
| | |
| | |

SN 80-005361

09:06

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 Location = TOXL 8164.14.00 09/16 05/15/2020

Flow Rate Calibration******

1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.480

2: Rate (Liters/min) = 15 SQRT(Diff)) = 11.660

3: Rate (Liters/min) = 30 SQRT(Diff)) = 21.699

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256

Rounded Slope = 634

Rounded Intercept = -488053

Correlation = 0.99773 Charla El

SN 80-005361

Page 3 of 10

Uploaded 5/18/2020 CEE

Auto Calibration

pg 1 of 2

| | <<<< | 3um >>>> | <<<< | 9um >>>> |
|---|--|---|--|---|
| Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV | .000 g/210L % Abs 0.0840 0.1000 0.0840 0.0530 0.0790 0.0239 30.248 | or 0.0000 mg/l, (% Abs Ref) (0.0070) (0.0580) (0.1210) (0.1490) (0.1093) (0.0466) (42.630) | Samples = 4, % Abs 0.1730 0.1870 0.1840 0.1810 0.1840 0.0030 1.630 | Discarded = 1 (% Abs Ref) (0.0090) (0.0100) (0.0500) (0.0460) (0.0353) (0.0220) (62.350) |
| Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV | .040 g/210L % Abs 0.7880 0.7620 0.7820 0.7690 0.7710 0.0101 1.316 | or 0.1905 mg/l, (% Abs Ref) (-0.0180) (0.0380) (0.0260) (0.0390) (0.0343) (0.0072) (21.070) | Samples = 4, % Abs 1.5290 1.5110 1.5630 1.5540 1.5427 0.0278 1.801 | Discarded = 1 (% Abs Ref) (-0.0230) (0.0110) (-0.0200) (-0.0090) (-0.0060) (0.0157) (261.937) |
| Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV | .081 g/210L % Abs 1.4460 1.3930 1.4040 1.4130 1.4033 0.0100 0.714 | or 0.3857 mg/l, (% Abs Ref) (-0.0330) (-0.0040) (0.0070) (0.0060) (0.0030) (0.0061) (202.759) | Samples = 4, % Abs 2.8750 2.8580 2.8490 2.8600 2.8557 0.0059 0.205 | Discarded = 1 (% Abs Ref) (0.0010) (0.0180) (0.0190) (0.0210) (0.0193) (0.0015) (7.901) |
| Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV | % Abs 2.5620 2.5660 2.5580 2.5880 2.5707 0.0155 | or 0.7190 mg/l, (% Abs Ref) (-0.0320) (-0.0150) (-0.0070) (-0.0020) (-0.0080) (0.0066) (81.968) | Samples = 4, % Abs 5.1260 5.1280 5.1100 5.1030 5.1137 0.0129 0.252 | (% Abs Ref) (-0.0230) (-0.0100) (0.0000) (-0.0010) |
| Sample Sample #1 Sample #2 Sample #3 | .298 g/210L % Abs 4.9740 4.9960 4.9720 4.9270 4.9650 0.0350 | or 1.4190 mg/l, (% Abs Ref) (0.0140) (0.0320) (0.0340) (0.0480) (0.0380) (0.0087) (22.942) | | (% Abs Ref) (0.0220) (0.0520) (0.0420) |

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-005361 05/15/2020 09:15:22

Auto Calibration

pg 2 of 2

| < | <<< 3u | m >>>> | <<<< | 9um > | >>>> |
|--|---|---|--|--|---|
| Zero Order Coe First Order Co Second Order Co | ef 2886.6 | | -27 141 8.22 | | |
| 0.040 0.081 0.151 | (g/210L) -0.001 0.041 0.080 0.151 | (g/210L) 0.0005 -0.0015 0.0011 -0.0001 | Act (g/210L) 0.000 0.040 0.081 0.151 0.298 | (g/210L) -0.000 0.041 0.081 0.151 | (g/210L) 0.0003 -0.0006 0.0003 0.0000 |
| < | <<< 3u | m >>>> | <<<< | 9um > | >>>> |
| Solution = 0.16 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H20 adjust (mg) | | 4439.00 4381.00 4421.00 4476.00 4426.0000 47.6970 1.078 | - | A352.0 4344.0 4362.0 4362.0 4366.0 10.392 0.239 405 | 0 0 0 0 0 |

Atmospheric Pressure = 957

Charland

TOXL

intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-005361

05/15/2020

Auto Calibration Max Power Res Ualue = 28 Auto Range Res Value = 10

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/15/2020

Alcohol Analyzer SN 80-005361 8164.14.00 09/16 10:36

WET CAL CHECK

| Test | AC | Time |
|--------------|-------|-------|
| 01 Room Air | 0.000 | 10:36 |
| 02 Std. Sol. | 0.019 | 10:37 |
| 03 Room Air | 0.000 | 10:38 |
| 04 Std. Sol. | 0.019 | 10:39 |
| 05 Room Air | 0.000 | 10:39 |
| 06 Std. Sol. | 0.019 | 10:40 |
| 07 Room Air | 0.000 | 10:40 |

08 Sim Temp = 34.0°C

Simul Ser No = MP3061 Std Sol No = 201810D

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

LOW AC

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/15/2020

SN 80-005361 8164.14.00 09/16 10:49

WET CAL CHECK

| Test | AC | Time |
|--------------|-------|-------|
| 01 Room Air | 0.000 | 10:50 |
| 02 Std. Sol. | 0.251 | 10:51 |
| 03 Room Air | 0.000 | 10:51 |
| 04 Std. Sol. | 0.252 | 10:52 |
| 05 Room Air | 0.000 | 10:53 |
| 06 Std. Sol. | 0.252 | 10:53 |
| 07 Room Air | 0.000 | 10:54 |

 $08 \text{ Sim Temp} = 34.0^{\circ}\text{C}$

Simul Ser No = MP3067 Std Sol No = 201911B

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.250 A

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/15/2020

Alcohol Analyzer SN 80-005361 8164.14.00 09/16 10:59

DRY CAL CHECK

| Test | AC | Time |
|-------------|-------|-------|
| 01 Room Air | 0.000 | 11:00 |
| 02 Std. Gas | 0.082 | 11:00 |
| 03 Room Air | 0.000 | 11:00 |
| 04 Std. Gas | 0.081 | 11:01 |
| 05 Room Air | 0.000 | 11:01 |
| 06 Std. Gas | 0.081 | 11:02 |
| 07 Room Air | 0.000 | 11:02 |

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

CHARLES EDER

0.080 AC

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/15/2020

SN 80-005361 8164.14.00 09/16 11:03

DRY CAL CHECK

| Test | AC | Time |
|-------------|-------|-------|
| 01 Room Air | 0.000 | 11:03 |
| 02 Std. Gas | 0.082 | 11:04 |
| 03 Room Air | 0.000 | 11:04 |
| 04 Std. Gas | 0.083 | 11:05 |
| 05 Room Air | 0.000 | 11:05 |
| 06 Std. Gas | 0.082 | 11:05 |
| 07 Room Air | 0.000 | 11:06 |

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature
CHARLES EDER

MISIATION CHECK

Remarks:

0.080 AC Form 106-18000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/15/2020

Alcohol Analyzer SN 80-005361 8164.14.00 09/16 11:06

DRY CAL CHECK

| Test | | | AC | Time | |
|------|------|-----|-------|-------|--|
| 01 | Room | Air | 0.000 | 11:07 | |
| 02 | Std. | Gas | 0.081 | 11:07 | |
| 03 | Room | Air | 0.000 | 11:08 | |
| 04 | Std. | Gas | 0.081 | 11:08 | |
| 05 | Room | Air | 0.000 | 11:09 | |
| 06 | Std. | Gas | 0.082 | 11:09 | |
| 07 | Room | Air | 0.000 | 11:10 | |

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

ALIBRATION CHECK

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.08040