INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-004940 Location: TOXL

A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1. ☒ Replaced o-rings if damaged ADJUST VERIFY
2. Flow Meter Serial Number: 40655 & 55260
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. 160 L/S X 60 Sec/min = 9.60 L/min
   b. 20 L/min: 0. 312 L/S X 60 Sec/min = 19.2 L/min
   c. ☒ Flow Rates within ± 1 L/min of Expected Value

B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 697 psi Regulator: 700 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	0.000 (Actual)	NA – MilliQ H_2O	NA – MilliQ H_2O	DR7111
2	0.040	20060	2-10-22	DR7347
3	0.080	19100	3-26-21	DR5114
4	0.150	20150	3-16-22	DR5131
5	0.300 (0.298)	20030	1-21-22	DR7346

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 135/8100 A3 Cyl No. 6 Exp. Date: 8-5-20
4. Atmospheric Pressure
   a. 905 mbar Displayed by Intoxilyzer® 8000
   b. 945 mbar Adjusted to using barometer
   c. 944 mbar on Auto Calibration Report printout
5. ☒ Screen displayed "Calibration Success"

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

	Average		H_2O Adjust		
3 µm	4378	+	383	=	4761
9 µm	4400	+	361	=	4761

7. ☒ Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.020 AC
      Sim. SN: MP3061 Lot No.: 201810D Exp. Date: 10.24.20
      ii. High AC Known Value ≥ 0.25 AC: 0.250 AC
      Sim. SN: MP3067 Lot No.: 201911B Exp. Date: 11.5.21
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 135180846 Cyl No. 33 Exp. Date: 8.5.20

Test 1	0.079 AC	Test 4	0.080 AC	Test 7	0.079 AC
Test 2	0.080 AC	Test 5	0.079 AC	Test 8	0.080 AC
Test 3	0.080 AC	Test 6	0.079 AC	Test 9	0.080 AC

      Average 0.080 AC

   c. ☒ Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.

D. Remarks/Maintenance: Replaced Simulator Return O-Ring, Adjustment Calibration Due to mbar reading of 905 vs. Actual Reading of 945 mbar.

☒ Instrument is acceptable to be used in the field.

Breath Analyst Signature — Date: 4/6/20

Reviewed by: NA — Date: NA

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004940
Location = TOXL 8164.14.00 09/16
04/06/2020 13:23
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 7.141
2: Rate (Liters/min) = 15
SQRT(Diff)) = 12.121
3: Rate (Liters/min) = 30
SQRT(Diff)) = 22.270
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 635
Rounded Intercept = -585462
Correlation = 0.99682

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004940
04/06/2020 13:31:57

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	(0.0020)	0.1430	(0.0120)
Sample #2	0.0680	(0.0340)	0.1600	(0.0050)
Sample #3	0.0440	(0.0820)	0.1540	(0.0270)
Sample #4	0.0690	(0.0900)	0.1510	(0.0190)
Avg % Abs	0.0603	(0.0687)	0.1550	(0.0170)
STD DEV	0.0142	(0.0303)	0.0046	(0.0111)
REL STD DEV	23.460	(44.108)	2.957	(65.503)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.8130	(-0.0150)	1.5380	(-0.0180)
Sample #2	0.8110	(0.0020)	1.5610	(-0.0180)
Sample #3	0.8020	(0.0060)	1.5460	(-0.0110)
Sample #4	0.7900	(0.0310)	1.5440	(-0.0040)
Avg % Abs	0.8010	(0.0130)	1.5503	(-0.0110)
STD DEV	0.0105	(0.0157)	0.0093	(0.0070)
REL STD DEV	1.315	(120.894)	0.599	(63.636)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4610	(0.0110)	2.8780	(0.0130)
Sample #2	1.5040	(-0.0020)	2.9130	(-0.0090)
Sample #3	1.5290	(-0.0010)	2.9060	(0.0050)
Sample #4	1.5260	(0.0070)	2.9020	(0.0200)
Avg % Abs	1.5197	(0.0013)	2.9070	(0.0053)
STD DEV	0.0137	(0.0049)	0.0056	(0.0145)
REL STD DEV	0.898	(369.966)	0.192	(271.929)
Solution = 0.150 g/210L or 0.7143 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	2.6850	(0.0190)	5.1620	(0.0000)
Sample #2	2.7020	(0.0300)	5.1460	(0.0140)
Sample #3	2.7140	(0.0130)	5.1430	(-0.0060)
Sample #4	2.7290	(0.0380)	5.1770	(-0.0080)
Avg % Abs	2.7150	(0.0270)	5.1553	(0.0000)
STD DEV	0.0135	(0.0128)	0.0188	(0.0122)
REL STD DEV	0.498	(47.286)	0.365	(0.000)
Solution = 0.298 g/210L or 1.4190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.2030	(-0.0220)	9.6630	(-0.0280)
Sample #2	5.2150	(0.0130)	9.7370	(-0.0100)
Sample #3	5.2140	(0.0060)	9.7230	(-0.0080)
Sample #4	5.2100	(0.0180)	9.7180	(0.0040)
Avg % Abs	5.2130	(0.0123)	9.7260	(-0.0047)
STD DEV	0.0026	(0.0060)	0.0098	(0.0076)
REL STD DEV	0.051	(48.873)	0.101	(162.255)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004940
04/06/2020 13:31:57

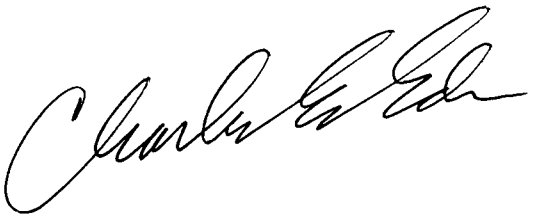
Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Zero Order Coef	-179.93		-223.78	
First Order Coef	2602.46		1358.68	
Second Order Coef	29.82		12.72	
	Act (g/210L)	Fit (g/210L)	Act (g/210L)	Fit (g/210L)
	0.000	-0.000	0.000	-0.000
	0.040	0.040	0.040	0.040
	0.080	0.081	0.080	0.081
	0.150	0.149	0.150	0.149
	0.298	0.298	0.298	0.298

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1		
Sample		
Sample #1	4387.00	4399.00
Sample #2	4410.00	4414.00
Sample #3	4338.00	4358.00
Sample #4	4387.00	4430.00
Avg	4378.3335	4400.6665
STD DEV	36.7741	37.8065
REL STD DEV	0.840	0.859
H2O adjust (mg/l*10k)	383	361

Atmospheric Pressure = 944

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



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004940
04/06/2020 13:31:57

Auto Calibration
Max Power Res Value = 3
Auto Range Res Value = 14

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004940
Location = TOXL 8164.14.00 09/16
04/06/2020 14:18

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:19
02 Std. Sol.	0.019	14:19
03 Room Air	0.000	14:20
04 Std. Sol.	0.019	14:21
05 Room Air	0.000	14:21
06 Std. Sol.	0.019	14:22
07 Room Air	0.000	14:22

08 Sim Temp = 34.0°C

Simul Ser No = MP3061
Std Sol No = 201810D
County = 08 Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: Low AC
0.020 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 80-004940
Location = TOXL — 8164.14.00 09/16
04/06/2020 — 14:24

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:25
02 Std. Sol.	0.256	14:25
03 Room Air	0.000	14:26
04 Std. Sol.	0.257	14:27
05 Room Air	0.000	14:27
06 Std. Sol.	0.257	14:28
07 Room Air	0.000	14:29

08 Sim Temp = 34.0°C

Simul Ser No = MP3067
Std Sol No = 201911B
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: HIGH AC
0.250 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 80-004940
Location = TOXL — 8164.14.00 09/16
04/06/2020 — 14:31

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:32
02 Std. Gas	0.079	14:32
03 Room Air	0.000	14:33
04 Std. Gas	0.080	14:33
05 Room Air	0.000	14:34
06 Std. Gas	0.080	14:34
07 Room Air	0.000	14:34

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
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 80-004940
Location = TOXL 8164.14.00 09/16
04/06/2020 14:35

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:35
02 Std. Gas	0.080	14:36
03 Room Air	0.000	14:36
04 Std. Gas	0.079	14:37
05 Room Air	0.000	14:37
06 Std. Gas	0.079	14:37
07 Room Air	0.000	14:38

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
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 80-004940
Location = TOXL — 8164.14.00 09/16
04/06/2020 — 14:38

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:39
02 Std. Gas	0.079	14:39
03 Room Air	0.000	14:40
04 Std. Gas	0.080	14:40
05 Room Air	0.000	14:41
06 Std. Gas	0.080	14:41
07 Room Air	0.000	14:41

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000