INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-007097 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: 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. 164 L/S X 60 Sec/min = 9.84 L/min
   b. 20 L/min: 0. 320 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: 326 psi Regulator: 300 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 (0.040)	20060	2·10·22	DR7351
3	0.080 (0.080)	19100	3·26·21	DR7345
4	0.150 (0.150)	20150	3·16·22	DR7344
5	0.300 ~~(0.30)~~ CEE (0.298)	19010	1·3·21	DR5190

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 072201004 Cyl No. 9 Exp. Date: 5·5·22
4. Atmospheric Pressure
   a. 956 mbar Displayed by Intoxilyzer® 8000
   b. 956 mbar Adjusted to using barometer
   c. 956 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	3858	+	903	=	4761
9 μm	4177	+	584	=	4761

7. X Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.020 AC
      Sim. SN: MP5321 Lot No.: 20181001 Exp. Date: 10.24.20
      ii. High AC Known Value ≥ 0.25 AC: 0.250 AC
      Sim. SN: MP5290 Lot No.: 20191113 Exp. Date: 11.5.21
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 34180080 A2 Cyl No. 7 Exp. Date: 2.5.21

Test 1	0.080 AC	Test 4	0.081 AC	Test 7	0.081 AC
Test 2	0.080 AC	Test 5	0.081 AC	Test 8	0.080 AC
Test 3	0.080 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: CALIBRATION ADJUST DUE TO PROFICIENCY TEST.

X Instrument is acceptable to be used in the field.

Breath Analyst Signature — Date: 9.3.20

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 80-007097
Location = TOXL 8164.16.00 09/18
09/03/2020 12:29
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 7.277
2: Rate (Liters/min) = 15
SQRT(Diff)) = 11.832
3: Rate (Liters/min) = 30
SQRT(Diff)) = 21.770
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 660
Rounded Intercept = -636264
Correlation = 0.99537

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007097
09/03/2020 14:36:37

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	0.1440	(-0.0070)	0.1870	(-0.0080)
Sample #2	0.1570	(0.0180)	0.1880	(-0.0040)
Sample #3	0.1630	(0.0360)	0.2000	(-0.0080)
Sample #4	0.1390	(0.0680)	0.1800	(0.0120)
Avg % Abs	0.1530	(0.0407)	0.1893	(-0.0000)
STD DEV	0.0125	(0.0253)	0.0101	(0.0106)
REL STD DEV	8.163	(62.274)	5.317	(6818049536.000)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.8330	(-0.0090)	1.5390	(0.0010)
Sample #2	0.8840	(0.0040)	1.5250	(0.0300)
Sample #3	0.8930	(-0.0030)	1.5420	(0.0210)
Sample #4	0.8600	(0.0200)	1.5160	(0.0470)
Avg % Abs	0.8790	(0.0070)	1.5277	(0.0327)
STD DEV	0.0171	(0.0118)	0.0132	(0.0132)
REL STD DEV	1.941	(168.426)	0.864	(40.419)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.5820	(-0.0210)	2.8690	(-0.0110)
Sample #2	1.5940	(-0.0010)	2.8580	(0.0230)
Sample #3	1.6090	(0.0000)	2.8320	(0.0430)
Sample #4	1.6560	(-0.0180)	2.8770	(0.0270)
Avg % Abs	1.6197	(-0.0063)	2.8557	(0.0310)
STD DEV	0.0323	(0.0101)	0.0226	(0.0106)
REL STD DEV	1.997	(159.726)	0.791	(34.139)
Solution = 0.150 g/210L or 0.7143 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	2.8880	(-0.0300)	5.0630	(-0.0080)
Sample #2	2.8740	(0.0000)	5.0930	(0.0080)
Sample #3	2.9290	(-0.0060)	5.0880	(0.0210)
Sample #4	2.9090	(0.0060)	5.0850	(0.0260)
Avg % Abs	2.9040	(0.0000)	5.0887	(0.0183)
STD DEV	0.0278	(0.0060)	0.0040	(0.0093)
REL STD DEV	0.959	(0.000)	0.079	(50.681)
Solution = 0.298 g/210L or 1.4190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.5060	(-0.0200)	9.5670	(-0.0120)
Sample #2	5.4860	(0.0240)	9.5610	(0.0400)
Sample #3	5.5120	(0.0220)	9.5620	(0.0490)
Sample #4	5.5230	(0.0110)	9.5640	(0.0450)
Avg % Abs	5.5070	(0.0190)	9.5623	(0.0447)
STD DEV	0.0190	(0.0070)	0.0015	(0.0045)
REL STD DEV	0.345	(36.842)	0.016	(10.095)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007097
09/03/2020 14:36:37

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-368.10	-259.19
First Order Coef	2540.44	1390.68
Second Order Coef	18.58	12.58

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	0.000	-0.0001
0.040	0.039	0.0005	0.040	0.040	0.0002
0.080	0.080	0.0003	0.080	0.080	-0.0001
0.150	0.150	-0.0005	0.150	0.150	-0.0000
0.298	0.298	0.0001	0.298	0.298	0.0000

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1		
Sample		
Sample #1	3880.00	4194.00
Sample #2	3844.00	4181.00
Sample #3	3848.00	4164.00
Sample #4	3882.00	4188.00
Avg	3858.0000	4177.6665
STD DEV	20.8806	12.3423
REL STD DEV	0.541	0.295
H2O adjust (mg/l*10k)	903	584

Atmospheric Pressure = 956

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

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007097
09/03/2020 14:36:37

Auto Calibration
Max Power Res Value = 57
Auto Range Res Value = 41

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

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-007097
Location = TOXL — 8164.16.00 09/18
09/03/2020 — 15:19

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:20
02 Std. Sol.	0.020	15:21
03 Room Air	0.000	15:21
04 Std. Sol.	0.020	15:22
05 Room Air	0.000	15:23
06 Std. Sol.	0.020	15:23
07 Room Air	0.000	15:24

08 Sim Temp = 34.0°C

Simul Ser No = MP5321
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 8000 — Alcohol Analyzer
North Dakota Model — SN 80-007097
Location = TOXL — 8164.16.00 09/18
09/03/2020 — 15:47

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:48
02 Std. Sol.	0.245	15:49
03 Room Air	0.000	15:49
04 Std. Sol.	0.246	15:50
05 Room Air	0.000	15:50
06 Std. Sol.	0.246	15:51
07 Room Air	0.000	15:52

08 Sim Temp = 34.0°C

Simul Ser No = MP5290
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 80-007097
Location = TOXL — 8164.16.00 09/18
09/03/2020 — 16:01

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:02
02 Std. Gas	0.080	16:02
03 Room Air	0.000	16:02
04 Std. Gas	0.080	16:03
05 Room Air	0.000	16:03
06 Std. Gas	0.080	16:04
07 Room Air	0.000	16:04

Lot No = 34418080A2
Cyl No = 7
Exp Date = 02/05/2021
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 80-007097
Location = TOXL — 8164.16.00 09/18
09/03/2020 — 16:05

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:06
02 Std. Gas	0.081	16:06
03 Room Air	0.000	16:06
04 Std. Gas	0.081	16:07
05 Room Air	0.000	16:07
06 Std. Gas	0.080	16:08
07 Room Air	0.000	16:08

Lot No = 34418080A2
Cyl No = 7
Exp Date = 02/05/2021
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 80-007097
Location = TOXL — 8164.16.00 09/18
09/03/2020 — 16:12

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:13
02 Std. Gas	0.081	16:13
03 Room Air	0.000	16:14
04 Std. Gas	0.080	16:14
05 Room Air	0.000	16:15
06 Std. Gas	0.081	16:15
07 Room Air	0.000	16:15

Lot No = 34418080A2
Cyl No = 7
Exp Date = 02/05/2021
County = 08 — Oper No. = 666666

Charles E Eder

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080AC

Form 106-I8000