BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer[®] 8000 Serial Number: 80-005952 Location: TOXL Α. Flow Sensor Calibration and Verification Check (Level 3, M, C, F) ADJUST Replaced o-rings if damaged 1. 55260 4065 Flow Meter Serial Number: 2. 3. Air Supplied to Intoxilyzer[®] 8000 at: 🕺 15 L/min 💢 30 L/min 🕅 5 L/min a. V Flow Rate Calibration Printout Attached 4. \boxtimes Correlation ≥ 0.99000 V Flow Sensor Calibration Verification (Level 3, D, F) 5. 10 L/min: 0.164 L/S X 60 Sec/min = 7.84L/min а. 20 L/min: 0. 324 L/S X 60 Sec/min = 19.44b. L/min Flow Rates within ± 1 L/min of Expected Value C. Β. Gas Tank Sensor Check (Level 3,D,G) Display: 945 psi Regulator: 950 psi 1. X Display and Regulator within 50 psi 2. 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) Autocalibration Printout Attached 1. XMax Power Res Value ≥ 10 a. Auto Range Res Value ≥ 4 b. 2. Simulator Solutions for Optical Bench Calibration Adjustment Set # Solutions to Run at 5 а. Soln. g/210 L Lot No. Exp. Date Simulator SN 1 NA – MilliQ NA – MilliQ H₂O 0.000 17 30S H₂O 577) ACTUAL 2 3.10.22 3050 202003A 0.040 0-041 3

MP 5318 21050 2.15-23 0.080 0.080 10.20.22 202010E MP 3003 0.160 100 1.21.22 MP 3069 0.300 20030

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - Lot No. 07220100A1 Cyl No. 9 Exp. Date: 5/5/22 a.
- **Atmospheric Pressure** 4.

C.

- 96/ mbar Displayed by Intoxilyzer[®] 8000 а.
- 962 mbar Adjusted to using barometer b.
 - 96/ mbar on Auto Calibration Report printout
- Y Screen displayed "Calibration Success" 5.

10/18 Issuing Authority – ARQ SN 80-005952

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5

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

- Calibration Adjustment Printout Attached 6.
 - $\dot{\mathbf{X}}$ Solution 1 Avg % Abs \leq 0.2500 a.
 - 3 Solution 2-5 REL STD DEV \leq 3.000 b.
 - \bowtie Residual (g/210 L) Values for Solutions 1-5 \leq 0.0020 for 3 C. μ m and 9 μ m channels
 - MDry Gas H2O Adjustment Sum for 3 μm and 9 μm d. channels within ± 10

_	Average		H ₂ O Adjust		4711
3 μm	4242	+	216	=	1/6/
9 μm	4438	_+_	323	_ = _	4761

- Deptical Bench Calibration Verification (Level 1, S and C) 7.
 - a. Wet Calibration Check
 - i. Low AC Known_Value ≤ 0.03 AC: $\bigcirc 0.02 \bigcirc$ AC Sim. SN: <u>MP 3064</u>Lot No.:<u>20070</u> Exp. Date: <u>2:13:2</u>2
 - ii. High AC Known Value ≥ 0.25 AC: 0.300 AC Sim. SN: MP5317 Lot No.: 202012A Exp. Date: 12.8.22
 - b. Dry Calibration Check: Known Value 0.08 AC Lot No. 24119080 A / Cyl No. 6 Exp. Date: 11. D5-21 Test 1 ∂_{-080} AC Test 4 ∂_{-081} AC Test 7 ∂_{-081} AC Test 7 ∂_{-081} AC Test 8 ∂_{-081} AC Test 8 ∂_{-081} AC Test 6 0.08 AC Test 9 0.08 AC Test 3 0.08/ AC Average 0.08/ AC
 - c. KWet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or $\pm 5\%$ (whichever is greater) of stated value.

D. Remarks/Maintenance: CAL A, DJAST DUE TO JUSTRUMENT CONSISTENTY
RETURNING 0.083 AC & 0.084 AC VALUES FOR A 0.080 AC STANDARD.
DISCOVERED WHILE PREPARING (LASSROOM FOR 2020-21 TRAINING
SESSIONS IN UCTORED 2020.

Breath Analyst Signature

Revièwed by

<u>4-16-21</u> Date 4-19-21

Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501 CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-005952 Location = TOXL 8164.14.00 09/16 04/16/2021 12:58 Flow Rate Calibration******* 1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.6802: Rate (Liters/min) = 15 SQRT(Diff)) = 12.9223: Rate (Liters/min) = 30 SQRT(Diff)) = 22.426Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 657Rounded Intercept = -744615Correlation = 0.99873

Andertech

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005952 04/16/2021 13:49:25

Auto Calibration

	<<<<<	3um >>>>>	<<<<<	9um >>>>
Sample Sample #1 Sample #2 Sample #3	.000 g/210L % Abs 0.1650 0.1210 0.0890 0.1030 0.1043 0.0160 15.375	or 0.0000 mg/l, (% Abs Ref) (-0.0220) (0.0670) (0.1090) (0.1240) (0.1000) (0.0295) (29.547)		Discarded = 1 (% Abs Ref) (-0.0140) (0.0330) (0.0430) (0.0440) (0.0400) (0.0061) (15.207)
Sample Sample #1 Sample #2	.041 g/210L % Abs 0.7940 0.8210 0.7780 0.7830 0.7940 0.0235 2.962	or 0.1952 mg/l, (% Abs Ref) (-0.0160) (-0.0040) (0.0150) (0.0100) (0.0070) (0.0098) (140.698)	Samples = 4, % Abs 1.5320 1.5470 1.5090 1.5280 1.5280 0.0190 1.243	Discarded = 1 (% Abs Ref) (-0.0270) (0.0180) (0.0190) (0.0060) (0.0143) (0.0072) (50.471)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.080 g/210L % Abs 1.4690 1.5020 1.5220 1.5110 1.5117 0.0100 0.663	or 0.3810 mg/l, (% Abs Ref) (-0.0070) (0.0090) (0.0230) (0.0220) (0.0180) (0.0078) (43.390)	<pre>Samples = 4, % Abs 2.9020 2.9320 2.9230 2.9190 2.9247 0.0067 0.228</pre>	Discarded = 1 (% Abs Ref) (0.0140) (0.0290) (0.0300) (0.0420) (0.0337) (0.0072) (21.488)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	<pre>% Abs 1.8640 1.8970 1.9070 1.8730 1.8923 0.0175 0.923</pre>	or 0.4857 mg/l, (% Abs Ref) (-0.0070) (-0.0080) (-0.0040) (0.0300) (0.0060) (0.0209) (348.010)	Samples = 4, % Abs 3.6520 3.6780 3.6690 3.6810 3.6760 0.0062 0.170	(% Abs Ref) (0.0000) (0.0150) (0.0320) (0.0350) (0.0273) (0.0108)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV	298 g/210L	or 1.4190 mg/l, (% Abs Ref) (-0.0030) (0.0020) (0.0100) (0.0080) (0.0067) (0.0042) (62.450)	Samples = 4, % Abs 10.0290 9.9940 9.9870 10.0070 9.9960 0.0101 0.102	(% Abs Ref) (-0.0220) (0.0310) (0.0380) (0.0260)

pg 1 of 2

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005952 04/16/2021 13:49:25

Auto Calibration

<<	<<< 3u	n >>>>	<<<<<	9um :	>>>>
Zero Order Coef First Order Coe Second Order Co	ef 2661.5	-		6.39 5.00 1	
Act (g/210L) 0.000 0.041 0.080 0.102 0.298	Fit (g/210L) 0.001 0.040 0.080 0.102 0.298	Residual (g/210L) -0.0007 0.0015 -0.0005 -0.0003 0.0001	Act (g/210L) 0.000 0.041 0.080 0.102 0.298	Fit (g/210L) 0.000 0.040 0.080 0.102 0.298	Residual (g/210L) -0.0005 0.0010 -0.0003 -0.0003 0.0000

	<<<<<	3um	>>>>>	<<<<<	9um >>>>
Solution = Sample	0.100 g	/210L or	0.4762 mg/	l, Samples =	4, Discarded = 1
Sample #1		4	1278.00		4427.00
Sample #2		4	171.00		4403.00
Sample #3		4	1281.00		4447.00
Sample #4		4	1284.00		4465.00
Avg		4	1245.3335		4438.3335
STD DEV		e	54.3920		31.8957
REL STD DEV			L.517		0.719
H2O adjust	(mg/l*1)	0k) 5	516		323

Atmospheric Pressure = 961

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TOXL Intoxilyzer - Aiconol Analyzer Model 8000 SN 80-005952 04/16/2021 13:49:25

Auto Calibration Max Power Res Value = 39 Auto Range Res Value = 17 pg 2 of 2

CMI, Inc. Intoxilyzer	Alcohol Analyzer
North Dakota Model 8000	SN 80-005952
Location = TOXL	8164.14.00 09/16
04/16/2021	14:34

	WET CAL CHECK	
Test	AC	Time
01 Room Air 02 Std. Sol 03 Room Air 04 Std. Sol 05 Room Air 06 Std. Sol 07 Room Air	. 0.019 0.000 . 0.018 0.000 . 0.019	14:3514:3614:3614:3714:3714:3814:39

08 Sim Temp = 34.0° C

Simul Ser No = MP3064 Std Sol No = 20070 County = 08

Oper No. = 666666

121

Operator Signature CHARLES EDER

LOW AC 0.020 AC

Form 106-18000

CMI, Inc. Intoxilyzer	Alcohol Analyzer
North Dakota Model 8000	SN 80-005952
Location = TOXL	8164.14.00 09/16
04/16/2021	14:39

WET CA	L CHECK
Test	AC Time
01 Room Air 02 Std. Sol. 03 Room Air 04 Std. Sol. 05 Room Air 06 Std. Sol. 07 Room Air	$\begin{array}{cccccc} 0.000 & 14:40 \\ 0.299 & 14:41 \\ 0.000 & 14:41 \\ 0.300 & 14:42 \\ 0.000 & 14:42 \\ 0.300 & 14:42 \\ 0.300 & 14:43 \\ 0.000 & 14:44 \end{array}$
08 Sim Temp = 34.0°C Simul Ser No = MP531 Std Sol No = 202012A County = 08	7 Oper No. = 666666

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Operator Signature CHARLES EDER

0.300

Form 106-18000

CMI, Inc. Intoxilyzer	Alcohol Analyzer
North Dakota Model 8000	SN 80-005952
Location = TOXL	8164.14.00 09/16
04/16/2021	14:44

			DRY CAL CHECK	
Te	est		AC	Time
02 03 04 05	Room Std. Room Std. Room Std.	Gas Air Gas Air	0.000 0.080 0.000 0.081 0.000 0.081	14:45 14:45 14:45 14:46 14:46 14:47
07	Room	Air	0.000	14:47

Lot No = 24119080A1 Cyl No = 6 Exp Date = 11/05/2021 County = 08

Oper No. = 666666

MECK

NO

Operator Signature CHARLES EDER

ALIBRATION

0.080AC

Form 106-18000

CMI, Inc. Intoxilyzer	Alcohol Analyzer
North Dakota Model 8000	SN 80-005952
Location = TOXL	8164.14.00 09/16
04/16/2021	14:47

			DRY CAL CHECK	
Test			AC	Time
01	Room	Air	0.000	14:48
02	Std.	Gas	0.081	14:48
03	Room	Air	0.000	14:49
04	Std.	Gas	0.081	14:49
05	Room	Air	0.000	14:50
06	Std.	Gas	0.081	14:50
07	Room	Air	0.000	14:51

Lot No = 24119080A1 Cyl No = 6 Exp Date = 11/05/2021 County = 08

Oper No. = 666666

UU C 2 C-2

Operator Signature CHARLES EDER ALIBRATTON CHECK

0.080AC Form 106-18000

CMI, Inc. Intoxilyzer	Alcohol Analyzer
North Dakota Model 8000	SN 80-005952
Location = TOXL	8164.14.00 09/16
04/16/2021	14:51

			DRY CAL CHECK	
Test			AC	Time
01	Room	Air	0.000	14:51
02	Std.	Gas	0.081	14:52
03	Room	Air	0.000	14:52
04	Std.	Gas	0.081	14:53
05	Room	Air	0.000	14:53
06	Std.	Gas	0.081	14:54
07	Room	Air	0.000	14:54

Lot No = 24119080A1 Cyl No = 6 Exp Date = 11/05/2021 County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

) CHECK ľ 70 x 0-080 A 7

Form 106-18000