BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer[®] 8000 Serial Number: 80-00 4196 Location: TOXL

- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
 - 1. KReplaced o-rings if damaged ADJUST, VERIFY
 - 2. Flow Meter Serial Number: <u>55260 ξ 4</u>0655
 - 3. Air Supplied to Intoxilyzer[®] 8000 at:
 - a. 🖉 5 L/min 🖉 15 L/min 🖉 30 L/min
 - ✓ Flow Rate Calibration Printout Attached
 a. ✓ Correlation ≥ 0.99000
 - 5. Kristin Verification (Level 3,D,F)
 - a. 10 L/min: 0. <u>156</u> L/S X 60 Sec/min = <u>9.36</u> L/min
 - b. 20 L/min: 0. <u>320</u> L/S X 60 Sec/min = <u>/9.80</u> L/min
 - c. XFlow Rates within ± 1 L/min of Expected Value
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: <u>395</u> psi Regulator: <u>400</u> psi
 - 2. KDisplay and Regulator within 50 psi
- C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
 - 1. XAutocalibration 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 I		Lot No.	Exp. Date	Simulator SN
1	0.000	ACTMAN)	NA – MilliQ H ₂ O	NA – MilliQ H2O	DR7111
2	1	.040)	2018080	08.22.20	DR7347
3	0.080 (0).08I)	201807C	07.25.20	DRSIIY
4	0.15D (0).15Î)	201BIIE	11-26-20	DR5131
5	0.300 (0	, z98)	19010	1.3.21	DR7346

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. 13518/0043 Cyl No. 6 Exp. Date: 8.5.20
- 4. Atmospheric Pressure
 - a. <u>952</u> mbar Displayed by Intoxilyzer[®] 8000
 - b. <u>963</u> mbar Adjusted to using barometer
 - c. <u>963</u> mbar on Auto Calibration Report printout
- 5. X Screen displayed "Calibration Success"

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

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

Average $3 \mu m 4348$	+	H ₂ O Adjust 4/ 3	=	4761
9 μm <u>4459</u>	_ + _	302	_=_	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: <u>MP306 (</u>Lot No.: 20/8/00 Exp. Date: 10.24.20
 - ii. High AC Known Value ≥ 0.25 AC: $0.25 \circ$ AC Sim. SN: MP3067 Lot No.: 20191/B Exp. Date: 11.5.21
- b. Dry Calibration Check: Known Value 0.08 AC Lot No. <u>13518080A6</u> Cyl No. <u>33</u> Exp. Date: <u>8.5.20</u> Test 1 <u>0.079</u>AC Test 4 <u>0.080</u>AC Test 7 <u>0.081</u>AC Test 2 <u>0.080</u>AC Test 5 <u>0.080</u>AC Test 8 <u>0.080</u>AC Test 3 <u>0.080</u>AC Test 6 <u>0.081</u>AC Test 9 <u>0.061</u>AC Average <u>0.080</u>AC
- c. $\not A$ Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or $\pm 5\%$ (whichever is greater) of stated value.

D. Re	emarks/Main [•]	tenance	: Courses	TIOU	ADJUST	DUE TO	Armosi	PHERIC
MONITOR	READING	952,	Actual	Arm	OSPHFRIC	PRESSU	<u>RE 96.</u>	<u>3 mbar</u>
		Mbar						

Anstrument is acceptable to be used in the field.

Breath Analyst Signature

4.16.20 NA

Date

Reviewed by

Date

Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501 CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-004196 Location = TOXL8164.14.00 09/16 04/15/2020 16:01 Flow Rate Calibration******* 1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.2772: Rate (Liters/min) = 15 SQRT(Diff)) = 12.6093: Rate (Liters/min) = 30 SQRT(Diff)) = 22.043Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 657Rounded Intercept = -683120Correlation = 0.99903

Clumber

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-004196 04/16/2020 09:13:20

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 0.1440 0.1430 0.1190 0.0970 0.1197 0.0230 19.226	or 0.0000 mg/l, (% Abs Ref) (-0.0110) (0.0230) (0.0390) (0.0830) (0.0483) (0.0311) (64.282)	Samples = 4, % Abs 0.2470 0.1840 0.1750 0.1670 0.1753 0.0085 4.851	Discarded = 1 (% Abs Ref) (-0.0090) (0.0070) (0.0210) (0.0190) (0.0157) (0.0076) (48.331)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.9190 0.8320 0.8570 0.8300 0.8397 0.0150 1.792	or 0.1905 mg/l, (% Abs Ref) (-0.0010) (0.0710) (0.0690) (0.0900) (0.0767) (0.0116) (15.118)	Samples = 4, % Abs 1.6210 1.6130 1.6570 1.6260 1.6320 0.0226 1.385	Discarded = 1 (% Abs Ref) (-0.0100) (0.0000) (0.0010) (0.0003) (0.0006) (173.205)
Solution = 0 Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.081 g/210L % Abs 1.6100 1.5660 1.5140 1.5610 1.5470 0.0287 1.854	or 0.3857 mg/l, (% Abs Ref) (0.0150) (0.0700) (0.0990) (0.0890) (0.0860) (0.0147) (17.129)	<pre>Samples = 4, % Abs 2.9970 3.0170 3.0010 3.0220 3.0133 0.0110 0.364</pre>	Discarded = 1 (% Abs Ref) (0.0080) (0.0200) (0.0250) (0.0040) (0.0163) (0.0110) (67.161)
Sample Sample #1	<pre>% Abs 2.7870 2.7520 2.7060 2.7420 2.7333 0.0242</pre>	or 0.7190 mg/l, (% Abs Ref) (0.0370) (0.0870) (0.1160) (0.0910) (0.0980) (0.0157) (16.037)	Samples = 4, % Abs 5.3420 5.3460 5.3260 5.3360 5.3360 0.0100 0.187	Discarded = 1 (% Abs Ref) (-0.0170) (-0.0070) (0.0100) (0.0170) (0.0067) (0.0123) (185.135)
Sample Sample #1 Sample #2 Sample #3	% Abs	or 1.4190 mg/l, (% Abs Ref) (-0.0150) (-0.0180) (0.0150) (0.0210) (0.0210) (0.0210) (350.000)	% Abs	Discarded = 1 (% Abs Ref) (-0.0180) (0.0050) (0.0400) (0.0210)

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-004196 04/16/2020 09:13:20

Auto Calibration

<<	<<< 3u	m >>>>>	<<<<<	9um >:	>>>>
Zero Order Coef First Order Coe Second Order Co	ef 2718.5	-		8.30 6.58	
Act (g/210L) 0.000 0.040 0.081 0.151 0.298	Fit (g/210L) -0.001 0.041 0.081 0.150 0.298	Residual (g/210L) 0.0006 -0.0007 -0.0004 0.0007 -0.0001	Act (g/210L) 0.000 0.040 0.081 0.151 0.298	Fit (g/210L) -0.001 0.041 0.081 0.150 0.298	Residual (g/210L) 0.0007 -0.0010 -0.0002 0.0007 -0.0001

	<<<<<	3um	>>>>>	<<<<<	9um >>>>
Solution = (Sample).100 g/210	OL or 0.	.4762 mg/l,	Samples = 4,	Discarded = 1
Sample #1		442	21.00		4439.00
Sample #2		435	57.00		4450.00
Sample #3		432	29.00		4461.00
Sample #4		436	50.00		4467.00
Avg		434	18.6665		4459.3335
STD DEV		17.	.0978		8.6217
REL STD DEV		0.3	393		0.193
H2O adjust ((mg/l*10k)	413	3		302

Atmospheric Pressure = 963

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-004196 04/16/2020 09:13:20

Auto Calibration Max Power Res value = 24 Auto Range Res Value = 17

Munder Ede

CMI, Inc. IntoxilyzerAlcohol AnalyzerNorth Dakota Model 8000SN 80-004196Location = TOXL8164.14.00 09/1604/16/202009:55

	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	0.000 0.019 0.000 0.019 0.000 0.020 0.000	09:56 09:57 09:57 09:58 09:58 09:59 10:00

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

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

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Operator Signature CHARLES EDER

Low AC 0.020 AC

Form 106-18000

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-004196 Location = TOXL 8164.14.00 09/16 04/16/2020 10:02

	WET CAL CHECK	
Test	AC	Time
01 Room Air	0.000	10:03
02 Std. Sol.	0.248	10:03
03 Room Air	0.000	10:04
04 Std. Sol.	0.249	10:05
05 Room Air	0.000	10:05
06 Std. Sol.	0.250	10:06
07 Room Air	0.000	10:07

08 Sim Temp = 34.0°C

Simul Ser No = MP3067 Std Sol No = 201911BCounty = 08

Oper No. = 666666

un

Operator Signature CHARLES EDER

HIGH A 0.2501

Form 106-18000

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-004196 Location = TOXL 8164.14.00 09/16 04/16/2020 10:12

	DRY CAL CHECK	
Test	AC	Time
01 Room Air 02 Std. Gas 03 Room Air 04 Std. Gas 05 Room Air 06 Std. Gas 07 Room Air	0.000 0.079 0.000 0.080 0.000 0.080 0.080 0.000	10:13 10:13 10:14 10:14 10:15 10:15 10:15

Lot No = 13518080A6Cyl No = 33Exp Date = 08/05/2020County = 08

Oper No. = 666666

Operator Signature CHARLES EDER D. 080 AC

Form 106-I8000

CMI, Inc. IntoxilyzerAlcohol AnalyzerNorth Dakota Model 8000SN 80-004196Location = TOXL8164.14.00 09/1604/16/202010:16

	DRY CAL CHECK	
Test	AC	Time
01 Room Air 02 Std. Gas 03 Room Air 04 Std. Gas 05 Room Air 06 Std. Gas 07 Room Air	$\begin{array}{c} 0.000\\ 0.080\\ 0.000\\ 0.080\\ 0.000\\ 0.081\\ 0.000\\ \end{array}$	10:17 10:17 10:18 10:18 10:18 10:19 10:19

Lot No = 13518080A6 Cyl No = 33 Exp Date = 08/05/2020 County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

AECK ALIBRATION

0.080Ac

Form 106-18000

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-004196 Location = TOXL 8164.14.00 09/16 04/16/2020 10:20

[DRY CAL CHECK	
Test	AC	Time
01 Room Air 02 Std. Gas 03 Room Air 04 Std. Gas 05 Room Air 06 Std. Gas 07 Room Air	0.000 0.081 0.000 0.080 0.000 0.081 0.000	10:20 10:21 10:22 10:22 10:22 10:22 10:22

Lot No = 13518080A6Cyl No = 33Exp Date = 08/05/2020County = 08

Oper No. = 666666

Operator Signature CHARLES EDER ALIBLATION CHECK

0.080 AC

Form 106-I8000