Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80 - 00 5 9 3 9 Location: TOXL

- Α. Flow Sensor Calibration and Verification Check (Level 3.M.C.F)
 - PReplaced o-rings if damaged 55260 1.
 - 2. Flow Meter Serial Number:
 - Air Supplied to Intoxilyzer® 8000 at: 3.
 - ▼ 5 L/min ▼ 15 L/min ▼ 30 L/min
 - 4 VFlow Rate Calibration Printout Attached VCorrelation ≥ 0.99000
 - 5. ✓ Flow Sensor Calibration Verification (Level 3,D,F)
 - 10 L/min: 0. [44 L/S X 60 Sec/min = 9.84 L/min L/min
 - 20 L/min: 0.320 L/S X 60 Sec/min = 19.2 b.
 - √Flow Rates within ± 1 L/min of Expected Value C.
- B. Gas Tank Sensor Check (Level 3,D,G)
 - Display: 521 psi Regulator: 500 psi
 - 2. ✓ Display and Regulator within 50 psi
 - Completed tare of tank sensor if needed (Level 3, M, C, G)
- C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
 - VAutocalibration Printout Attached
 - Max Power Res Value ≥ 10
 - b. Auto Range Res Value ≥ 4
 - 2. Simulator Solutions for Optical Bench Calibration Adjustment
 - Set # Solutions to Run at 5

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA – MilliQ H₂O	NA – MilliQ H ₂ O	DR 7111
2	0.040	2018080	8.22.20	DP 7347
3	0.081	201807C	7.25.20	DR 5114
4	0.151	201811E	11.26.20	DR 5131
5	0.298	19010	1.3.21	DR 7346

- 0.100 AC Calibration Gas for H2O Adjustment 3.
 - Lot No. 135/8/0043 Cyl No. 006 Exp. Date: 8.5.20
- 4. Atmospheric Pressure
 - 954 mbar Displayed by Intoxilyzer® 8000
 - 953 mbar Adjusted to using barometer b.
 - 954 mbar on Auto Calibration Report printout
- 5. √ Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

6.	 Calibration Adjustment Printout Attached Solution 1 Avg % Abs ≤ 0.2500 Solution 2-5 REL STD DEV ≤ 3.000 Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 μm and 9 μm channels Dry Gas H2O Adjustment Sum for 3 μm and 9 μm channels within ± 10 Average H₂O Adjust
	$3 \mu m 4541 + 220 = 4761$ $9 \mu m 4521 + 240 = 4761$
7.	VOptical Bench Calibration Verification (Level 1, S and C)
	Wet Calibration Check
	i. Low AC Known Value ≤ 0.03 AC: <u>0-020</u> AC
MI	P5321 Sim. SN: 2018-10A Lot No.: 2018-10D Exp. Date: 10.24.20
	ii. High AC Known Value ≥ 0.25 AC: <u>0.250</u> AC Sim. SN: <u>M/5290</u> Lot No.: <u>2019118</u> Exp. Date: <u>/ (- 5 - 2 /</u>
b.	Dry Calibration Check: Known Value 0.08 AC
	Lot No.05620080A Cyl No. 048 Exp. Date: 4.5.12
	Test 1 <u>0.080</u> AC Test 4 <u>0.080</u> AC Test 7 <u>0.080</u> AC
	Test 2 <u>0.080</u> AC Test 5 <u>0.080</u> AC Test 8 <u>0.079</u> AC
	Test 3 <u>0.079</u> AC Test 6 <u>0.080</u> AC Test 9 <u>0.079</u> AC
	Average O. D79 AC
C.	√Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.
D. Rema	rks/Maintenance: Classroom only.
	pectian. No external battern.
al adjust	due to low reading on 0.250 AC and 0.300 AC
Standard.	TONING FOR KAIHIER CER
\: :	G.18.20
instrument is acce	eptable to be used in the field.
1911/1	challet the
eath Analyst Sign	18 Jun 20 / 6.18.2020
Catil Allalyst Sigil	dide /
Marke	Ell 6.18.2020

Reviewed by

Date

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005939
Location = TOXL 8164.14.00 09/16
06/18/2020 11:15

Flow Rate Calibration******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.613
- 2: Rate (Liters/min) = 15 SQRT(Diff)) = 12.449
- 3: Rate (Liters/min) = 30
 SQRT(Diff)) = 23.234

Lati Y. Hieb

Correlation = 0.99486

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 611 Rounded Intercept = -592495

INTOXILYZER 8000 Instrument Initialization 10:39 06/18/2020

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005939 06/18/2020 11:30:44

Auto Calibration
Max Power Res Value = 24

Auto Range Res Value = 7

Intoxilyzer - Alcohol Analyzer Model 8000 SN SN 80-005939 06/18/2020 11:30:44

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 0.0620 0.0350 0.0280 0.0820 0.0483 0.0294 60.756	or 0.0000 mg/l, (% Abs Ref) (0.0030) (0.0430) (0.0740) (0.0670) (0.0613) (0.0163) (26.508)	Samples = 4, % Abs 0.1420 0.1400 0.1290 0.1260 0.1317 0.0074 5.598	Discarded = 1 (% Abs Ref) (0.0030) (0.0050) (0.0260) (0.0220) (0.0177) (0.0112) (63.116)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.6680 0.6850 0.6970 0.7180 0.7000 0.0167 2.386	or 0.1905 mg/l, (% Abs Ref) (0.0040) (0.0020) (0.0120) (0.0150) (0.0097) (0.0068) (70.416)	Samples = 4, % Abs 1.3730 1.4400 1.4570 1.4900 1.4623 0.0254 1.739	Discarded = 1 (% Abs Ref) (0.0150) (-0.0260) (-0.0330) (-0.0310) (-0.0300) (0.0036) (12.019)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.081 g/210L % Abs 1.3160 1.3920 1.3570 1.3360 1.3617 0.0283 2.078	or 0.3857 mg/l, (% Abs Ref) (-0.0070) (-0.0340) (-0.0090) (0.0120) (-0.0103) (0.0230) (222.861)	Samples = 4, % Abs 2.7500 2.8240 2.8140 2.7960 2.8113 0.0142 0.505	Discarded = 1 (% Abs Ref) (-0.0110) (-0.0570) (-0.0420) (-0.0310) (-0.0433) (0.0131) (30.118)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	151 g/210L % Abs 2.4730 2.4780 2.4770 2.4790 2.4780 0.0010 0.040	or 0.7190 mg/l, (% Abs Ref) (-0.0200) (-0.0010) (0.0130) (0.0140) (0.0087) (0.0084) (96.767)	Samples = 4, % Abs 5.0050 5.0780 5.0550 5.0540 5.0623 0.0136 0.268	Discarded = 1 (% Abs Ref) (-0.0180) (-0.0290) (-0.0210) (-0.0260) (-0.0253) (0.0040) (15.953)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	298 g/210L % Abs 4.9060 4.8470 4.8970 4.8590 4.8677 0.0261 0.536	or 1.4190 mg/l, (% Abs Ref) (0.0000) (0.0670) (0.0560) (0.0630) (0.0620) (0.0056) (8.980)	Samples = 4, % Abs 9.7470 9.7030 9.7320 9.7350 9.7233 0.0177 0.182	Discarded = 1 (% Abs Ref) (-0.0050) (0.0620) (0.0620) (0.0637) (0.0029) (4.534)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-005939 06/18/2020 11:30:44

Auto Calibration

pg 2 of 2

	<<<<	3um >>>>	<<<<	9um	>>>>
Zero Order Co First Order C Second Order	oef 2966	.27		95.10 1.65	
0.000 0.040 0.081 0.151	(g/210L -0.000 0.040 0.081	0.0004	(g/210L) 0.000 0.040 0.081 0.151	-0.000 0.040 0.081 0.151	(g/210L) 0.0001 -0.0001 -0.0002
	<<<<	3um >>>>	<<<<	9um	>>>>
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1 Sample Sample #1					00 00 00 00 6665
H2O adjust (m	g/l*10k)			240	

Atmospheric Pressure = 954

Kali J. Hieb

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2020

Alcohol Analyzer SN 80-005939 8164.14.00 09/16 13:35

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:35
02 Std. Sol.	0.019	13:37
03 Room Air	0.000	13:37
04 Std. Sol.	0.021	13:38
05 Room Air	0.000	13:38
06 Std. Sol.	0.019	13:39
07 Room Air	0.000	13:40

08 Sim Temp = 33.9°C

Simul Ser No = MP5321 Std Sol No = 201810D

County = 08

Oper No. = 123456

Operator Signature N/A STUDENT

Remarks:

Cal Chich LOW AC 0.010 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2020

Alcohol Analyzer SN 80-005939 8164.14.00 09/16 13:42

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:42
02 Std. Sol.	0.251	13:43
03 Room Air	0.000	13:44
04 Std. Sol.	0.251	13:44
05 Room Air	0.000	13:45
06 Std. Sol.	0.251	13:46
07 Room Air	0.000	13:46

08 Sim Temp = 34.0°C

Simul Ser No = MP5290 Std Sol No = 201911B

County = 08

Oper No. = 123456

Operator Signature N/A STUDENT

Remarks:

Cal Choch

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2020

Alcohol Analyzer SN 80-005939 8164.14.00 09/16 13:49

DRY CAL CHECK

Test			AC	Time
01	Room	Air	0.000	13:50
02	Std.	Gas	0.080	13:50
03	Room	Air	0.000	13:51
04	Std.	Gas	0.080	13:51
05	Room	Air	0.000	13:52
06	Std.	Gas	0.079	13:52
07	Room	Air	0.000	13:52

Lot No = 05620080A1

Cyl No = 48

Exp Date = 04/05/2022

County = 08

Oper No. = 123456

Operator Signature N/A STUDENT

Remarks: Cal Chech 0.080 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2020

Alcohol Analyzer SN 80-005939 8164.14.00 09/16 13:53

DRY CAL CHECK

Test		AC	Time
01 Room	Air	0.000	13:54
02 Std.	Gas	0.080	13:54
03 Room	Air	0.000	13:55
04 Std.	Gas	0.080	13:55
05 Room	Air	0.000	13:56
06 Std.	Gas	0.080	13:56
07 Room	Air	0.000	13:57

Lot No = 05620080A1

Cyl No = 48

Exp Date = 04/05/2022

County = 08

Oper No. = 123456

Operator Signature N/A STUDENT

Remarks: cal chech 0.080 AC

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/18/2020

Alcohol Analyzer SN 80-005939 8164.14.00 09/16 13:58

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:58
02 Std. Gas	0.080	13:59
03 Room Air	0.000	13:59
04 Std. Gas	0.079	14:00
05 Room Air	0.000	14:00
06 Std. Gas	0.079	14:00
07 Room Air	0.000	14:01

Lot No = 05620080A1

Cyl No = 48

Exp Date = 04/05/2022

County = 08

Oper No. = 123456

Operator Signature N/A STUDENT

Remarks:

cal chech 0.080AC