Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intovilyzer®	8000 Serial Number: 80-005946 Location: TOXL
IIIIOXIIyZCI	<u></u>
Α.	Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
Α.	
	$U_0(-1)$
	2. Flow Meter Serial Number: 40000 400
	3 Air Supplied to Intoxilyzer® 8000 at:
	a. 🗶 5 L/min 🗶 15 L/min 🗶 30 L/min
	4. Klow Rate Calibration Printout Attached
	a. XCorrelation ≥ 0.99000
	5 Volume Courses Collibration Varification (Level 3 D.F.)
	a. 10 L/min: 0. 1 4 L/S X 60 Sec/min = 9.84 L/min b. 20 L/min: 0.32 OL/S X 60 Sec/min = 19.2 L/min
	b. 20 L/min: $0.\overline{32}$ OL/S X 60 Sec/min = $1/9.2$ L/min
	VEL Determitted 1.1 /min of Exported Value
	c. X Flow Rates within ± 1 L/min of Expected value

- B. Gas Tank Sensor_Check (Level 3,D,G)
 - 1. Display: 822 psi Regulator: 850 psi
 - 2. X Display and Regulator within 50 psi
 - Completed tare of tank sensor if needed (Level 3,M,C,G)
- 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	J Kull at J	
Soln.	g/21	10 L	Lot No.	Exp. Date	Simulator SN
1	ACTUAL 0.0	(500)	NA – MilliQ H ₂ O	NA – MilliQ H ₂ O	MP3068
2	0.040	(0.040)		12.06.19	MP5317
3	0.080	(0.080)	18160	5.16.20	MP3318
4	0.151	(0.150)	201811E	11.26.20	MP5320
5	0 201	(0.300)	201802H	3.22.20	MP3070

- 3. 0.100 AC Calibration Gas for H2O Adjustment a. Lot No. 13518100 A3 Cyl No. 6 Exp. Date: 8/5/20
- 4. Atmospheric Pressure
 - a. 962 mbar Displayed by Intoxilyzer® 8000
 - b. 962 mbar Adjusted to using barometer
 - c. 961 mbar on Auto Calibration Report printout
- Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

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K Calibration Adjustment Pri	ntout Attached
a. Solution 1 Avg % A	bs ≤ 0.2500
b. X Solution 2-5 REL S	TD DEV ≤ 3.000
c. Residual (g/210 L)	Values for Solutions 1-5 ≤ 0.0020 for 3
μm and 9 μm channel	
d. X Dry Gas H2O Adjus	tment Sum for 3 μm and 9 μm
channels within ± 10	
	Adjust
	147 = 476/
- Per 11	67 = 4761
7. Optical Bench Calibration	Verification (Level 1, S and C)
a Wot Calibration Check	
	e≤ 0.03 AC: 0.0/0 AC = 30.20
Sim. SN: MP5289 L	ot No.: 20/805B Exp. Date:
ii High AC Known Value	e ≥ 0 25 AC: (2, 25 C) AC
Sim. SN: <u>MP 5321</u> I	_ot No.: 2018 036 Exp. Date: 3.22.20
h Dry Calibration Check: Know	wn Value 0.08 AC
Lot No. <u>344/8 080 A2</u> Cyl	No. <u>/2</u> Exp. Date: <u>2.5.2/</u>
Test 1 <u>0.082</u> AC Test 4 <u>0</u>	0.080 AC Test 7 0.08/ AC
Test 2 <u>0.081</u> AC Test 5 <u>4</u>	0.082 AC Test 8 0.081 AC
Test 3 <u>0.081</u> AC Test 6 <u>0</u>	7-08/AC Test 9 0.08(AC
Average <u>0.081</u> AC	
VM-+ Calibration Chook and	Dry Calibration Check AC results are
c. Vivet Calibration Check and	d Dry Calibration Check AC results are chever is greater) of stated value.
Within ± 0.005 of ± 5% (Willow	level is greater) or stated value.
D. Bomarks/Maintenance: CALIRE	FTION AUTUSTMENT DUE TO
D. Remarks/Maintenance: CACIBRA KNOWN 0.080AC STANDARD	HAVING VALUES OF
0.075 to 0.077 RE-	TURNED.
0,072 10 00077	
Instrument is acceptable to be used in the field	l.
	4
01 1 01	
11/11/14/19	8/30/19
June & ac	Data .
B re ath Analyst Signature	Date
NA	NA
Deviewed by	Date
Reviewed by	54.0

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005946
Location = TOXL 8164.14.00 09/16
08/30/2019 14:25

Flow Rate Calibration******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.070
- 2: Rate (Liters/min) = 15
 SQRT(Diff)) = 11.957
- 3: Rate (Liters/min) = 30
 SQRT(Diff)) = 22.781

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 608 Rounded Intercept = -503482

Correlation = 0.99502

Charles Est

Intoxilyzer - Alcohol Analyzer Model 8000 SN SN 80-005946 08/30/2019 14:36:39

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 0.1010 0.0750 0.0910 0.0640 0.0767 0.0136 17.709	or 0.0000 mg/l, (% Abs Ref) (-0.0220) (0.0360) (0.0360) (0.0470) (0.0397) (0.0064) (16.011)	Samples = 4, % Abs 0.2100 0.1860 0.2310 0.1760 0.1977 0.0293 14.822	Discarded = 1 (% Abs Ref) (0.0000) (0.0320) (0.0190) (0.0270) (0.0260) (0.0066) (25.221)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.7090 0.7590 0.7670 0.7580 0.7613 0.0049 0.648	or 0.1905 mg/l, (% Abs Ref) (0.0060) (-0.0280) (-0.0340) (-0.0350) (-0.0323) (0.0038) (11.709)	Samples = 4, % Abs 1.6670 1.6940 1.6940 1.6660 1.6847 0.0162 0.960	Discarded = 1 (% Abs Ref) (-0.0030) (-0.0280) (-0.0330) (-0.0180) (-0.0263) (0.0076) (29.004)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.080 g/210L % Abs 1.4320 1.4560 1.4350 1.4363 0.0190 1.325	or 0.3810 mg/l, (% Abs Ref) (-0.0170) (0.0060) (0.0190) (0.0440) (0.0230) (0.0193) (83.970)	Samples = 4, % Abs 2.9890 3.0450 3.0050 3.0160 3.0220 0.0207 0.684	Discarded = 1 (% Abs Ref) (0.0040) (-0.0050) (0.0190) (0.0310) (0.0150) (0.0183) (122.202)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.151 g/210L % Abs 2.5710 2.5500 2.5920 2.5560 2.5660 0.0227 0.885	or 0.7190 mg/l, (% Abs Ref) (0.0050) (0.0340) (0.0240) (0.0360) (0.0313) (0.0064) (20.518)	Samples = 4, % Abs 5.3280 5.3160 5.3040 5.2910 5.3037 0.0125 0.236	(% Abs Ref) (-0.0060) (0.0080) (0.0200) (0.0180) (0.0153) (0.0064)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs	% Abs 4.8190 4.8340 4.8860 4.8920 4.8707 0.0319	(0.0110) (0.0120) (0.0090) (0.0107)	% Abs 9.5330 9.6250 9.6690 9.6650 9.6530	Discarded = 1 (% Abs Ref) (-0.0060) (-0.0090) (-0.0170) (0.0030) (-0.0077) (0.0101) (131.301)

TOXL

STD DEV

REL STD DEV

H20 adjust (mg/l*10k)

Intoxilyzer - Alcohol Analyzer

SN 80-005946 Model 8000 08/30/2019

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	~ 7	• •	
Allto	(10)	1 022	tion
Auto	Cal	LDIA	LIOII

	<<<< 3un	>>>>	<<<<	9um	>>>>
	pef -221.27 Coef 2757.41 Coef 47.55		-27 127 24.9	2.12	
(g/210L) 0.000 0.040 0.080 0.151 0.301	(g/210L) -0.000 0.040 0.081 0.151 0.301	Residual (g/210L) 0.0002 -0.0000 -0.0006 0.0005 -0.0001	(g/210L) 0.000 0.040 0.080 0.151 0.301	(g/210L -0.000 0.041 0.080 0.151 0.301	(g/210L) 0.0004 -0.0008 0.0002 0.0003 -0.0001
	<<<< 3um	>>>>	<<<<		>>>>
Solution = 0. Sample	100 g/210L or	0.4762 mg/l,			= 1
Sample #1		4143.00		4018.	
Sample #2 Sample #3		4009.00 3994.00		3913. 3860.	
Sample #4		4039.00		3910. 3894.	00
Avg		4014.0000		3894.	3333

14:36:39

Atmospheric Pressure = 961

Intoxilyzer - Alcohol Analyzer Model 8000 08/30/2019 Auto Calibration Max Power Res Value = 18 Auto Range Res Value = 5

22.9129

0.571

747

29.7714

Charles Ede

0.764

867

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
08/30/2019

Alcohol Analyzer SN 80-005946 8164.14.00 09/16 15:30

WET CAL CHECK

T	est	AC	
01	Room Air	0.000	15:31
02	Std. Sol.	0.011	15:31
03	Room Air	0.000	15:32
04	Std. Sol.	0.011	15:33
05	Room Air	0.000	15:33
06	Std. Sol.	0.010	15:34
07	Room Air	0.000	15:34

08 Sim Temp = 34.0°C

Simul Ser No = MP5289 Std Sol No = 201805B

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
08/30/2019

SN 80-005946 8164.14.00 09/16 15:42

WET CAL CHECK

Test		at AC		Time	
01	Room A	ir	0.	.000	15:42
02	Std. S	ol.	0.	.253	15:43
03	Room A	ir	0.	.000	15:44
04	Std. S	ol.	0.	253	15:44
05	Room A	ir	0.	.000	15:45
06	Std. S	ol.	0.	251	15:46
07	Room A	ir	0.	.000	15:46

08 Sim Temp = 34.0°C

Simul Ser No = MP5321 Std Sol No = 201803G

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 08/30/2019

Alcohol Analyzer SN 80-005946 8164.14.00 09/16 15:48

DRY CAL CHECK

T	Test		AC	
01	Room	Air	0.000	15:49
02	Std.	Gas	0.082	15:49
03	Room	Air	0.000	15:50
04	Std.	Gas	0.081	15:50
05	Room	Air	0.000	15:50
06	Std.	Gas	0.081	15:51
07	Room	Air	0.000	15:51

Lot No = 34418080A2

Cyl No = 12

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

CHARLES EDER

ALIBRATION CHECK Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.080AC

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 08/30/2019 SN 80-005946 8164.14.00 09/16 15:52

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:53
02 Std. Gas	0.080	15:53
03 Room Air	0.000	15:54
04 Std. Gas	0.082	15:54
05 Room Air	0.000	15:55
06 Std. Gas	0.081	15:55
07 Room Air	0.000	15:56

Lot No = 34418080A2

Cyl No = 12

Exp Date = 02/05/2021

County = 08

Remarks:

Oper No. = 666666

Operator Signature

Form 106-I8000

CHARLES EDER

0.080 AC

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 08/30/2019

Alcohol Analyzer SN 80-005946 8164.14.00 09/16 15:57

DRY CAL CHECK

T	Test		at AC	
01	Room	Air	0.000	15:58
02	Std.	Gas	0.081	15:58
03	Room	Air	0.000	15:59
04	Std.	Gas	0.081	15:59
05	Room	Air	0.000	16:00
06	Std.	Gas	0.081	16:00
07	Room	Air	0.000	16:00

Lot No = 34418080A2

Cyl No = 12

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature
CHARLES EDER
AUBRATION CAFECIC

Form 106-I8000

0.080 AC