Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-002666	Location: TOXL
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- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
 - 1.

 ☑ Replaced o-rings if damaged
 - 2. Flow Meter Serial Number: 40655
 - 3. Air Supplied to Intoxilyzer® 8000 at:
 - a. 风 5 L/min 风 15 L/min 风 30 L/min
 - - a.

 © Correlation ≥ 0.99000
 - - a. 10 L/min: 0. \ \ OL/S X 60 Sec/min = 9. \ D L/min
 - b. 20 L/min: 0.33 > L/S X 60 Sec/min = 19.9 > L/min
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: 1000 psi Regulator: 1000 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. M Autocalibration Printout Attached
 - 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	NA – MilliQ H₂O	NA – MilliQ H₂O	мР300Э
2	0.040	2017063	6 Jun 19	MP3057
3	0.080	201707E	25 JUI 19	MP3058
4	0.150	201705D	24 May 19	MP 3059
5	0.300	201803H	22 Mar 20	MP3061

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. <u>13518100A3</u> Cyl No. <u>6</u> Exp. Date: <u>5 Auq 2</u>0
- 4. Atmospheric Pressure
 - a. 962 mbar Displayed by Intoxilyzer® 8000
 - b. <u>quarante</u> mbar Adjusted to using barometer
 - c. <u>961</u> mbar on Auto Calibration Report printout
- 5. X Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

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6.	🔼 Calibration Adjustm	ent Printout Attacl	hed
	a. 🛛 Solution 1 Av	g % Abs ≤ 0.2500	0
		REL STD DEV ≤ 3	
	•		Solutions 1-5 ≤ 0.0020 for 3
	μm and 9 μm c		
			for 3 μm and 9 μm
	'ahannala within	1.40	Tot o part and o part
	Δ	verage 355 H2	O Adjust
	3 µm 4276.6662	961485 =	= <u>5237. 6665</u> 4761.665
	9 μm <u>4507.0000</u> +	254 =	= 4761
7.	☑ Optical Bench Calib		
a.	Wet Calibration Check		(=====, ===============================
	i. Low AC Known	Value ≤ 0.03 AC:	0.030AC
	Sim. SN: DR51	<u>88</u> Lot No.: <u>18</u> 0	20 Exp. Date: 9 Jan 20
	ii. High AC Knowr	Value ≥ 0.25 AC	: 0.250 AC
	Sim. SN: DR3	<u> 374</u> Lot No.: <u>20</u>	18036Exp. Date: 22 Nov 20
b.	Dry Calibration Check		
	Lot No. 34917080A	<u>3</u> Cyl No. <u>≥8</u>	Exp. Date: 576000
	Test 1 6.09AC Te	est 4 <u>0.079</u> AC	Test 7009AC
KIN-	AC T	(= , ==== 1.0	T 100
(16.) "	Test 2 <u>0.078</u> AC Te	est 5 <u>0.0 18</u> AC	Test 8 0.079 AC
430	<u> </u>	oct 6 A COAC	Toot 0 & ANG AC
	Average 0.079 AC	est o <u>0.0 M</u> AC	Test 9 <u>0.079</u> AC
0		ok and Dry Calibr	ation Chook AC regulta are
0.	within ± 0.005 or $\pm 5\%$	(whichever is are	ation Check AC results are
	Within ± 0.000 Of ± 0/0	(Willeliever is gre	ater) or stated value.
D. Rema	rks/Maintenance: 0 %	noed a-ring	g on breath hose,
			tration adjustment
			ent CDP. Display
intensitur is decir	reasing and barrow	le Scenner W	is failed. Due to
extent of rep	airs, Jinstrument	will be displ	sed of.
1 A -	eptable to be used in th	-	
/\			
	•		
Houta Muga	i-ninno	5 tebr	1
Breath Analyst Sign	ature	Date	,
(Vasiles		7/-	10016
Daisonal		54/9/	12017
Reviewed by	•	Date / /	

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-002666
Location = TOXL 8164.14.00 09/16
02/05/2019 10:28

Flow Rate Calibration *******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.082
- 2: Rate (Liters/min) = 15 SQRT(Diff)) = 11.223
- 3: Rate (Liters/min) = 30
 SQRT(Diff)) = 22.133

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 597 Rounded Intercept = -343366 Correlation = 0.99598

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-002666
02/05/2019 12:07:27

Auto Calibration Max Power Res Value = 45 Auto Range Res Value = 29

SN 80-002666 3 of 10 Uploaded 2/6/2019 RGN

Intoxilyzer - Alcohol Analyzer Model 8000 SN 02/05/2019 SN 80-002666 12:07:27

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 0.1420 0.0970 0.0790 0.1060 0.0940 0.0137 14.625	or 0.0000 mg/l, (% Abs Ref) (-0.0170) (0.0380) (0.0850) (0.0860) (0.0697) (0.0274) (39.371)	Samples = 4, % Abs 0.1240 0.1170 0.1130 0.1040 0.1113 0.0067 5.981	Discarded = 1 (% Abs Ref) (-0.0070) (0.0020) (0.0180) (0.0200) (0.0133) (0.0099) (73.993)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% ADS 0.7620 0.8020 0.7910 0.7980 0.7970 0.0056 0.699	or 0.1905 mg/l, (% Abs Ref) (0.0060) (0.0260) (0.0250) (0.0190) (0.0113) (59.313)	% Abs 1.4670 1.4920 1.4980 1.5090 1.4997 0.0086 0.575	(% Abs Ref) (0.0100) (0.0140) (0.0160) (0.0140) (0.0147) (0.0012) (7.873)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	080 g/210L % Abs 1.4570 1.5070 1.4640 1.5100 1.4937 0.0257 1.723	or 0.3810 mg/l, (% Abs Ref) (0.0120) (0.0090) (0.0340) (0.0220) (0.0217) (0.0125) (57.708)	Samples = 4, % Abs 2.8510 2.8840 2.8830 2.8900 2.8857 0.0038 0.131	Discarded = 1 (% Abs Ref) (0.0060) (0.0060) (0.0060) (0.0040) (0.0035) (86.603)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	150 g/210L % Abs 2.6040 2.6460 2.6810 2.6660 2.6643 0.0176 0.659	or 0.7143 mg/l, (% Abs Ref) (0.0020) (0.0070) (-0.0040) (0.0080) (0.0037) (0.0067) (181.591)	% Abs 5.0660 5.1240 5.1490 5.1590 5.1440 0.0180 0.350	(% Abs Ref) (-0.0010) (0.0050) (-0.0010) (-0.0010) (0.0010) (0.0035) (346.410)
Solution = 0. Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 5.0460 5.0190 5.0750	or 1.4286 mg/l, (% Abs Ref) (-0.0140) (0.0210) (0.0040) (0.0040) (0.0097) (0.0098) (101.534)	Samples = 4 ,	Discarded = 1 (% Abs Ref) (-0.0090) (0.0140) (0.0150) (0.0143) (0.0006) (4.028)

TOXL Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-002666 02/05/2019

Auto Calibration

pg 2 of 2

	<<<<	3um >>>>	<<<<	9um	>>>>
Zero Order C First Order Second Order	Coef 2661	.62	-14 133 15.2		
(g/210L 0.000 0.040 0.080 0.150) (g/210L 0.000 0.040 0.080 0.150	Residual) (g/210L) -0.0000 0.0001 -0.0002 0.0001 -0.0000	(g/210L) 0.000 0.040 0.080 0.150	(g/210I 0.000 0.040 0.081 0.150	(g/210L) -0.0000 0.0003 -0.0005 0.0003
	<<<<	3um >>>>	<<<<	9um	>>>>
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H20 adjust (r		or 0.4762 mg/l 4295.00 4206.00 4353.00 4271.00 4276.6665 73.6637 1.722 485	, Samples = 4,	1475. 4475. 4475. 4516. 4530. 4507. 28.58 0.634	00 00 00 00 00 0000

12:07:27

Atmospheric Pressure = 961

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 02/05/2019

Alcohol Analyzer SN 80-002666 8164.14.00 09/16 12:52

WET CAL CHECK

T	est		A	С	Time
01	Room	Air	0.	000	12:53
02	Std.	Sol.	0.	021	12:54
03	Room	Air	0.	000	12:54
04	Std.	Sol.	0.	021	12:55
05	Room .	Air	0.0	000	12:56
06	Std.	Sol.	0.0	021	12:56
07	Room .	Air	0.0	000	12:57

08 Sim Temp = 34.0°C

Simul Ser No = DR5188 Std Sol No = 18020County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Wet Calibration Check Remarks: Low AC

0.000 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
02/05/2019

Alcohol Analyzer SN 80-002666 8164.14.00 09/16 12:58

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:59
02 Std. Sol.	0.250	13:00
03 Room Air	0.000	13:01
04 Std. Sol.	0.250	13:01
05 Room Air	0.000	13:02
06 Std. Sol.	0.251	13:03
07 Room Air	0.000	13:03

08 Sim Temp = 34.0°C

Simul Ser No = DR3374 Std Sol No = 201803G

County = 08

Oper No. = 888888

Operator Signature
ROBERTA GRIEGER-NIMMO

Wet Calibration Check

Remarks: High AC

0.250 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
02/05/2019

Alcohol Analyzer SN 80-002666 8164.14.00 09/16 13:05

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:06
02 Std. Gas	0.079	13:06
03 Room Air	0.000	13:06
04 Std. Gas	0.078	13:07
05 Room Air	0.000	13:07
06 Std. Gas	0.079	13:08
07 Room Air	0.000	13:08

Lot No = 34917080A3

Cyl No = 028

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check

0.08DAC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
02/05/2019

Alcohol Analyzer SN 80-002666 8164.14.00 09/16 13:08

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:09
02 Std. Gas	0.079	13:10
03 Room Air	0.000	13:10
04 Std. Gas	0.078	13:10
05 Room Air	0.000	13:11
06 Std. Gas	0.079	13:11
07 Room Air	0.000	13:12

Lot No = 34917080A3

Cyl No = 028

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check

0.080 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
02/05/2019

Alcohol Analyzer SN 80-002666 8164.14.00 09/16 13:12

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:13
02 Std. Gas	0.079	13:13
03 Room Air	0.000	13:14
04 Std. Gas	0.079	13:14
05 Room Air	0.000	13:15
06 Std. Gas	0.079	13:15
07 Room Air	0.000	13:16

Lot No = 34917080A3

Cyl No = 028

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check