Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-006681	Location:	TOXL
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- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)

 - 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
 - 4. Krow Rate Calibration Printout Attached
 - 5.

 ☑ Flow Sensor Calibration Verification (Level 3,D,F)
 - a. 10 L/min: 0. 1 2 L/S X 60 Sec/min = 10.0 ≥ L/min
 - b. 20 L/min: 0.320L/S X 60 Sec/min = 19.2 L/min
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: 353 psi Regulator: 350 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. MAutocalibration Printout Attached
 - a. Max Power Res Value ≥ 10
 - 2. Simulator Solutions for Optical Bench Calibration Adjustment

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA – MilliQ H₂O	NA – MilliQ H₂O	MP3002
2	0.040	2017.06B	6 Jun 19	MP3057
3	0.080	201707E	25 Jul 19	MP3058
4	0.150	2017050	24 May 19	MP3059
5	0.300	2018034	22 Mar 20	MP3061

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. 13518100A3 Cyl No. 6 Exp. Date: 5 Aug 20
- 4. Atmospheric Pressure
 - a. 「<u>勾らし</u> mbar Displayed by Intoxilyzer® 8000
 - b. <u>953</u> mbar Adjusted to using barometer
 - c. 953 mbar on Auto Calibration Report printout

Uploaded 1/31/2019 RGN

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

6.	Calibration Adjustmen	t Printout Attach	ned
	a. 🛛 Solution 1 Avg		
	b. Solution 2-5 RE		
	· ·		olutions 1-5 ≤ 0.0020 for 3
	μm and 9 μm cha		
			for 3 μm and 9 μm
	channels within ±	10	z posta o posta
	Ave	rage H₂0	O Adjust
	3 μm <u>4509.3335</u> + <u>29</u>	52 =	4761.3335
	9 μm <u>4325.ldbb</u> 5+ <u>4</u>		4761.6665
7.	Moptical Bench Calibrati		
a.	Wet Calibration Check		0.020 AC
	 Low AC Known Va 	alue ≤ 0.03 AC:	OD O PU AC
	Sim. SN: <u>ORS18</u>	60 Lot No.: 180	020 Exp. Date: 9 Jan 20
	ii. High AC Known V		
	Sim. SN: <u>DR33</u>	<u>)4</u> Lot No.: <u>201</u>	<u>8036</u> Exp. Date: <u>∂∂ MW</u> ∂O
b.	Dry Calibration Check: k		
	Lot No. 34917080A3	Cyl No. <u>28</u> I	Exp. Date: 5 Reb20
Jun	Test 1 <u>o.on9</u> AC Test	4 <u>0.019</u> AC	Test 7 0.079 AC
4750	AND AND THE PROPERTY OF THE PR		
Rela	Test 2 <u>0.079</u> AC Test	3 <u>0.0 19</u> AC	_
45/210-	Test 3 O.O PAC Test	60 0000	0.080 7.41 Test 9 0.01 7 AC
	Average <u>6,079</u> AC	0 <u>0.07</u> AC	Test 9 OF AC
C		and Dry Calibra	tion Check AC results are
	within ± 0.005 or $\pm 5\%$ (w		
	Within 2 0.000 of 2 070 (W	monever is grea	ater) or stated value.
D. Remar	rks/Maintenance: <u>೧೦೧೪</u>	wition ad	illethrent of
flow sensor	and optical ben	ch comple	Frd after onering
instrument	for Repair Mai	intenance	are game
\ /			
	ptable to be used in the fi	eld.	
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	,		
	~ · · · ·	7. —	10
Proof And Muc	gu runno	01 70	an 1-1
Breath Analyst Signa	ature	Date	
1 Vana Res	-5-50	21 77	b) 2019
Reviewed by		Doto.	12.001
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 80-006681 Location = TOXL 8164.14.00 09/16 01/31/2019 13:28 Flow Rate Calibration****** 1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.6332: Rate (Liters/min) = 15 SQRT(Diff)) = 12.3283: Rate (Liters/min) = 30 SQRT(Diff)) = 22.492Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 611 Rounded Intercept = -495195

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-00668!
01/31/2019 13:33:45

Auto Calibration Max Power Res Ualue = 51 Auto Range Res Ualue = 29

Correlation = 0.99893

01/31/2019

13:33:45

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 0.0880 0.0710 0.0970 0.0830 0.0837 0.0130 15.553	or 0.0000 mg/l, (% Abs Ref) (0.0150) (0.1040) (0.1340) (0.1640) (0.1340) (0.0300) (22.388)	Samples = 4, % Abs 0.2680 0.2320 0.2540 0.2570 0.2477 0.0137 5.512	Discarded = 1 (% Abs Ref) (0.0020) (0.0380) (0.0390) (0.0600) (0.0457) (0.0124) (27.204)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.8090 0.7920 0.8010 0.7890 0.7940 0.0062 0.787	or 0.1905 mg/l, (% Abs Ref) (-0.0180) (0.0310) (0.0300) (0.0500) (0.0370) (0.0113) (30.458)	Samples = 4, % Abs 1.6330 1.6260 1.6520 1.6400 1.6393 0.0130 0.794	Discarded = 1 (% Abs Ref) (-0.0160) (0.0060) (-0.0070) (0.0020) (0.0003) (0.0067) (1997.498)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	080 g/210L % Abs 1.5160 1.4620 1.4940 1.4933 0.0185 1.246	or 0.3810 mg/l, (% Abs Ref) (-0.0210) (-0.0150) (-0.0550) (-0.0630) (-0.0443) (0.0257) (58.007)	Samples = 4, % Abs 2.9820 2.9970 3.0160 3.0140 3.0090 0.0104 0.347	Discarded = 1 (% Abs Ref) (-0.0030) (-0.0180) (-0.0430) (-0.0410) (-0.0340) (0.0139) (40.860)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	150 g/210L % Abs 2.6730 2.6970 2.7120 2.7380 2.7157 0.0207 0.764	or 0.7143 mg/l, (% Abs Ref) (0.0040) (-0.0140) (-0.0210) (-0.0340) (-0.0230) (0.0101) (44.126)	% Abs 5.2610 5.2880 5.3130 5.3360 5.3123 0.0240 0.452	Discarded = 1 (% Abs Ref) (0.0040) (0.0080) (-0.0010) (-0.0170) (-0.0033) (0.0127) (379.868)
Sample Sample #1 Sample #2 Sample #3	300 g/210L % Abs 5.2360 5.2500 5.2560 5.2410 5.2490 0.0075 0.144	or 1.4286 mg/l, (% Abs Ref) (-0.0150) (0.0050) (0.0260) (0.0520) (0.0277) (0.0235) (85.100)	Samples = 4, % Abs 9.8850 9.9300 9.9600 9.9560 9.9487 0.0163 0.164	Discarded = 1 (% Abs Ref) (-0.0180) (-0.0010) (0.0000) (0.0120) (0.0037) (0.0072) (197.296)

TOXL Intoxilyzer - Alcohol Analyzer

Atmospheric Pressure = 953

Model 8000 SN 80-006681 01/31/2019 13:33:45

<<<< 3um

Auto Calibration

pg 2 of 2

Zero Order Coef First Order Coe Second Order Co	f 2669.6	3 5	 -32 133 13.4		
Act (g/210L) 0.000 0.040 0.080 0.150	Fit (g/210L) 0.000 0.040 0.079 0.150	Residual (g/210L) -0.0001 -0.0002 0.0006 -0.0004 0.0001	Act (g/210L) 0.000 0.040	Fit (g/210L) 0.000 0.040 0.080 0.150	(g/210L) -0.0001 0.0002 -0.0000 -0.0000
<<	<<< 3u	m >>>>	<<<<	9um >>	·>>>
Solution = 0.10 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H2O adjust (mg/		r 0.4762 mg/l, 4479.00 4496.00 4531.00 4501.00 4509.3335 18.9297 0.420 252	Samples = 4,	4333.00 4330.00 4322.00 4325.00 4325.66 4.0415 0.093 436	

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9um

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Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 01/31/2019

Alcohol Analyzer SN 80-006681 8164.14.00 09/16 14:23

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:24
02 Std. Sol.	0.022	14:25
03 Room Air	0.000	14:25
04 Std. Sol.	0.021	14:26
05 Room Air	0.000	14:26
06 Std. Sol.	0.021	14:27
07 Room Air	0.000	14:27

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

Simul Ser No = DR5188 Std Sol No = 18020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Low AC 0.020 AC

Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 01/31/2019

Alcohol Analyzer SN 80-006681 8164.14.00 09/16 14:29

WET CAL CHECK

AC	Time
r 0.000	14:30
0.252	14:31
r 0.000	14:31
1. 0.252	14:32
r 0.000	14:33
1. 0.252	14:33
r 0.000	14:34
	r 0.000 1. 0.252 r 0.000 1. 0.252 r 0.000 1. 0.252

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

Simul Ser No = DR3374Std Sol No = 201803G

County = 08

Oper No. = 888888

2. Surge-Nemr Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: High AC 0.250 AC Form 106-I8000 Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
01/31/2019

Alcohol Analyzer SN 80-006681 8164.14.00 09/16 14:39

DRY CAL CHECK

Т.	est		AC	Time
01	Room	Air	0.000	14:39
02	Std.	Gas	0.079	14:40
03	Room	Air	0.000	14:40
04	Std.	Gas	0.079	14:41
05	Room	Air	0.000	14:41
06	Std.	Gas	0.079	14:42
07	Room	Air	0.000	14:42

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature

ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check 0.080 AC

Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
01/31/2019

Alcohol Analyzer SN 80-006681 8164.14.00 09/16 14:42

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:43
02 Std. Gas	0.079	14:43
03 Room Air	0.000	14:44
04 Std. Gas	0.079	14:44
05 Room Air	0.000	14:45
06 Std. Gas	0.079	14:45
07 Room Air	0.000	14:45

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Remarks:

Oper No. = 888888

Operator Signature

ROBERTA GRIEGER-NIMMO

Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 01/31/2019

Alcohol Analyzer SN 80-006681 8164.14.00 09/16 14:46

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:46
02 Std. Gas	0.079	14:47
03 Room Air	0.000	14:47
04 Std. Gas	0.079	14:47
05 Room Air	0.000	14:48
06 Std. Gas	0.080	14:48
07 Room Air	0.000	14:49

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks:

Dry Calibration Check 0.080 AC