BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-006689 Location: TOXL

- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
 - 1. Replaced o-rings if damaged ADJUST VELIFY
 - 2. Flow Meter Serial Number: 40655 £ 55260
 - 3. Air Supplied to Intoxilyzer® 8000 at:
 - - a.

 ★ Correlation ≥ 0.99000
 - 5. X Flow Sensor Calibration Verification (Level 3,D,F)
 - a. 10 L/min: 0. 171 L/S X 60 Sec/min = 10.26 L/min
 - b. 20 L/min: 0. <u>324</u> L/S X 60 Sec/min = <u>/9.44</u> L/min
 - c. Flow Rates within ± 1 L/min of Expected Value
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: 990 psi Regulator: 1000 psi
 - 2. X 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. XAutocalibration Printout Attached
 - a. Max Power Res Value ≥ 10
 - b. KAuto Range Res Value ≥ 4
 - 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	0.0	OOD ACTUAL)	NA – MilliQ H₂O	NA – MilliQ H₂O	DR7111
2	0.040	(0,040)		8.22.20	DR7347
3	0.080	(0.081)	201807C	7.25.20	DR5114
4	0.150	(0.151)	201811E	11.26.20	DR5131
5	0.300	(0.298)	19010	1.3.21	DR7346

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. 135184 100 A3 Cyl No. 4 Exp. Date: 8.5.20
- 4. Atmospheric Pressure
 - a. 964 mbar Displayed by Intoxilyzer® 8000
 - b. 969 mbar Adjusted to using barometer
 - c. 969 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
	a. X Solution 1 Avg % Abs ≤ 0.2500
	b. Solution 2-5 REL STD DEV ≤ 3.000
	c.
	μm and 9 μm channels
	d. YDry Gas H2O Adjustment Sum for 3 μm and 9 μm
	channels within ± 10
	Average H ₂ O Adjust
	$3 \mu m + 4468 + 293 = 4761$
	9 μm <u>4433</u> + <u>328</u> = <u>4761</u>
7.	XOptical Bench Calibration Verification (Level 1, S and C)
a.	Wet Calibration Check
	i. Low AC Known Value ≤ 0.03 AC:O AC
	Sim. SN: <u>MP3064</u> Lot No.: <u>20070</u> Exp. Date: <u>2.13.2</u> 2
	ii. High AC Known Value ≥ 0.25 AC: AC AC AC
	Sim. SN: <u>MP3</u> 67Lot No.: <u>2019 11 B</u> Exp. Date: <u>11.5.2 1</u>
b.	Dry Calibration Check: Known Value 0.08 AC
	Lot No. 24//9080A (Cyl No. 9 Exp. Date: //-5-21
	Test 1 0.079AC Test 4 0.079AC Test 7 0.079AC Test 2 0.080AC Test 5 0.079AC Test 8 0.080AC
	Test 3 <u>0.080</u> AC Test 6 <u>0.079</u> AC Test 9 <u>0.079</u> AC
	Average 0.079AC
	AverageAC
C	Wet Calibration Check and Dry Calibration Check AC results are
0.	within ± 0.005 or $\pm 5\%$ (whichever is greater) of stated value.
D. Rema	arks/Maintenance: CALIBRATION APJUST DUE TO 0.080AC
GAS STANDA	HED RETURNING VALUES OF 0.084AC. STILL
WITHIN th	CO.005 AC TOLELANCE.
.	
XInstrument is acce	eptable to be used in the field.
A	
Challe	5.29.20
Breath Analyst Sign	nature Date
z. zadi / maiyot olgi	Date Date
	NH NH
Reviewed by	Date

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

12:11

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-006689 Location = TOXL 8164.14.00 09/16 05/29/2020

Flow Rate Calibration *******

1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.070

2: Rate (Liters/min) = 15 SQRT(Diff)) = 11.832

3: Rate (Liters/min) = 30 SQRT(Diff)) = 21.977

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256

Rounded Slope = 643

Rounded Intercept = -576193 Charles Este

Correlation = 0.99590

05/29/2020

SN 80-006689 12:14:16

Auto Calibration

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	<<<<	3um >>>>	<<<<	9um >>>>
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.000 g/210L % Abs 0.1090 0.0690 0.0820 0.0960 0.0823 0.0135 16.401	or 0.0000 mg/l, (% Abs Ref) (-0.0160) (0.0550) (0.0660) (0.0830) (0.0680) (0.0141) (20.745)	Samples = 4, % Abs 0.1980 0.1870 0.1770 0.2230 0.1957 0.0242 12.365	Discarded = 1 (% Abs Ref) (-0.0110) (0.0110) (0.0130) (-0.0020) (0.0073) (0.0081) (111.062)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.7890 0.7760 0.7410 0.7490 0.7553 0.0183 2.428	or 0.1905 mg/l, (% Abs Ref) (-0.0170) (0.0040) (0.0230) (0.0230) (0.0167) (0.0110) (65.818)	Samples = 4, % Abs 1.5830 1.5770 1.5570 1.5460 1.5600 0.0157 1.007	Discarded = 1 (% Abs Ref) (-0.0140) (0.0030) (0.0150) (0.0190) (0.0123) (0.0083) (67.513)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.081 g/210L % Abs 1.4290 1.4360 1.4520 1.4530 1.4470 0.0095 0.659	or 0.3857 mg/l, (% Abs Ref) (0.0140) (0.0150) (0.0300) (0.0290) (0.0247) (0.0084) (33.999)	Samples = 4, % Abs 2.9110 2.9090 2.9180 2.9190 2.9153 0.0055 0.189	Discarded = 1 (% Abs Ref) (0.0200) (0.0220) (0.0280) (0.0270) (0.0257) (0.0032) (12.524)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.151 g/210L % Abs 2.6300 2.5770 2.5830 2.5610 2.5737 0.0114 0.442	or 0.7190 mg/l, (% Abs Ref) (-0.0220) (0.0070) (0.0110) (0.0150) (0.0110) (0.0040) (36.364)	Samples = 4, % Abs 5.2300 5.2030 5.1960 5.1790 5.1927 0.0123 0.238	Discarded = 1 (% Abs Ref) (0.0000) (0.0190) (0.0190) (0.0280) (0.0220) (0.0052) (23.619)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.298 g/210L % Abs 5.0210 5.0160 5.0170 5.0340 5.0223 0.0101 0.201	or 1.4190 mg/l, (% Abs Ref) (0.0070) (0.0120) (0.0190) (0.0137) (0.0047) (34.579)	Samples = 4, % Abs 9.8340 9.8350 9.8380 9.8230 9.8320 0.0079 0.081	Discarded = 1 (% Abs Ref) (0.0010) (0.0080) (0.0220) (0.0250) (0.0183) (0.0091) (49.493)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-006689 05/29/2020 12:14:16

Auto Calibration

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	<<<< 31	um >>>>	<<<<		>>>>
Zero Order Co First Order Co Second Order O	oef 2877.		-28 139 7.44	2.77 8.99	·
(g/210L) 0.000 0.040 0.081 0.151	(g/210L) -0.000 0.040 0.082 0.150	(g/210L) 0.0005 -0.0002 -0.0010 0.0009	Act (g/210L) 0.000 0.040 0.081 0.151 0.298	(g/210L) -0.000 0.040 0.081 0.151	(g/210L) 0.0002 -0.0003 -0.0000 0.0002
	<<<< 31	ım >>>>	<<<<	9um >	>>>>
Solution = 0.1 Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H2O adjust (mg		4565.00 4444.00 4435.00 4525.00 4468.0000 49.5681 1.109	Samples = 4,	Discarded 4433.0 4429.0 4427.0 4444.0 4433.3 9.2916 0.210 328	0 0 0 0 0 335

Atmospheric Pressure = 964

Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-006689 05/29/2020 12:14:16

Auto Calibration Max Power Res Uaiue = 44 Auto Range Res Ualue = 26

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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
05/29/2020

Alcohol Analyzer SN 80-006689 8164.14.00 09/16 12:51

WET CAL CHECK

Test			AC	Time
01	Room	Air	0.000	12:51
02	Std.	Sol.	0.020	12:52
03	Room	Air	0.000	12:53
04	Std.	Sol.	0.020	12:53
05	Room	Air	0.000	12:54
06	Std.	Sol.	0.020	12:55
07	Room	Air	0.000	12:55

08 Sim Temp = 34.0°C

Simul Ser No = MP3064 Std Sol No = 20070

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

LOW AC

Remarks:

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

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 05/29/2020

Alcohol Analyzer SN 80-006689 8164.14.00 09/16 12:56

WET CAL CHECK

Test		AC	Time
01 R	oom Air	0.000	12:57
02 St	td. Sol.	0.255	12:58
03 R	oom Air	0.000	12:58
04 St	td. Sol.	0.256	12:59
05 R	oom Air	0.000	12:59
06 St	td. Sol.	0.256	13:00
07 R	oom Air	0.000	13:01

08 Sim Temp = 34.0°C

Simul Ser No = MP3067 Std Sol No = 201911B

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

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

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 05/29/2020

Alcohol Analyzer SN 80-006689 8164.14.00 09/16 13:01

DRY CAL CHECK

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

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks: 0.080 AC

PALIBRATION CHECK Form 106-I8000

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

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/29/2020

Alcohol Analyzer SN 80-006689 8164.14.00 09/16 13:04

DRY CAL CHECK

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

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

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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
05/29/2020

Alcohol Analyzer SN 80-006689 8164.14.00 09/16 13:08

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:08
02 Std. Gas	0.079	13:09
03 Room Air	0.000	13:09
04 Std. Gas	0.080	13:09
05 Room Air	0.000	13:10
06 Std. Gas	0.079	13:10
07 Room Air	0.000	13:11

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

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