Return Material Authorization

Ship to: ☐ CMI, Inc.

☑ Enforcement Electronics

Shipment to repair facility authorized by: David Claflin on 07/09/2019

Items Returned: Instrument ☑ Supplies ☐ Other ☐ Describe: _____

Instrument Model: Intoxilyzer 8000 Serial Number: 80-001647

Bill To Address:	Ship to Address:
Cape Coral Police Department	FDLE Off-site Mail Facility
	Alcohol Testing Program
	813 B Lake Bradford Road
	Tallahassee, FL 32304

Reason for Return:

Please evaluate the source on this instrument. The source does not look stable when watching the DVM monitor. I am having issues adjusting the calibration to nominal values.

Please choose one of the following options:

☐ 1. I _____, authorize all repairs.

☐ 2. I _____, authorize repairs up to $_____.

☑ 3. I require an estimate **BEFORE** any repairs will be authorized and/ or conducted.

Please contact: Name: Daisy Sutton

Phone #: (239) 574-0650 Email: _____

ATP Contact Name: TJ Graham ATP Email: thomasgraham@fdle.state.fl.us

INSTRUMENT PROCESSING SHEET

FDLE Florida Department of Law Enforcement

Agency Cape Coral PD S/N 80-001647

Date In 07/02/2019 DI Completion Date 07/09/2019 ☐Ship ☐P/U ☐H/D ☐CMI ☑EE

Intake Performed By DP

- ☑ Annual
- ☐ Registration
- ☐ Return from CMI / EE

Visual Inspection:

- ☑ Case ☑ Handle
- ☑ Keyboard ☑ Dry Gas Shelf
- ☑ Feet ☑ Breath Tube
- ☑ Ports ☑ Screws Tight

Other Equipment/ Accessories:

- ☐ Power cord ☐ Printer Cable
- ☑ Static Bag ☐ 12V DC Cable

Notes: _____

Final Release Date

FDLE

JUL 09 2019

Alcohol Testing Program

Quality Checks Performed By JD

- ☑ Breath Tube Screen
- ☑ Replace External O-Rings
- ☑ Instrument Set Up Verified
- ☑ R-Value 196
- ☑ Flow Verification (L/s)

Flow Column # ATP-103

32 mm	.152	(.139 - .169)
36 mm	.167	(.156 - .190)
53 mm	.238	(.228 - .278)
103 mm	.503	(.447 - .547)

- ☑ Barometric Pressure Check

Gauge ID # 26932

- ☑ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD1012	201707D 07/25/2019
0.080	DR1279	201707E 07/25/2019
0.200	SD1013	201707C 07/24/2019
0.080 DGS	N/A AG831804 JD ~~AG813804~~	11/14/2020

Flow Calibration Performed By _____

Flow Column # _____

- ☐ 5L/min – 17mm
- ☐ 15L/min – 53mm
- ☐ 30L/min – 103mm
- ☐ R-Value _____
- ☐ Post Calibration Verification (L/s)

Flow Column # _____

32 mm		(.139 - .169)
36 mm		(.156 - .190)
53 mm		(.228 - .278)
103 mm		(.447 - .547)

Maintenance Performed By _____

- ☐ Battery Replacement
- ☐ Dry Gas Regulator Replacement
- ☐ Breath Tube Replacement
- ☐ Other _____

Temperature Checks Performed By JD

- ☑ Lab Temp °C 21.1

External Digital Therm. ID#: 300505

- ☑ 34°C +-.2 Serial #: SD1012
- ☑ 34°C +-.2 Serial #: DR1279
- ☑ 34°C +-.2 Serial #: SD1013

Calibration Adjustment Performed By JD

Barometric Pressure Gauge 1012 ID # 28421

Simulator	Serial Number	Lot Number	Expiration
0.000	SD1016	N/A	N/A
0.040	SD1022	19080	03/04/2021
0.100	SD3964	18200	07/03/2020
0.200	SD1025	19040	01/29/2021
0.300	SD1024	18110	04/02/2020
0.080 DGS	N/A	17817080A2	08/05/2019

- ☑ Post Calibration Adjustment Stability Checks

Simulator	Serial Number	Lot Number	Expiration
0.050	SD1012	201707D	07/25/2019
0.080	DR1279	201707E	07/25/2019
0.200	SD1013	201707C	07/24/2019
0.080 DGS	N/A	AG831804	11/14/2020

Department Inspection Performed By JD

Barometric Pressure ID# 30793

Gauge 1011 Instrument 1012

Mouth Alcohol Solution Lot # 2019-B

Acetone Stock Solution Lot # 2018-A

Simulator	Serial Number
0.000	G2408
Interferent	G2882
0.050	SD1012
0.080	DR1279
0.200	SD1013

Attachments

- ☑ Form 41
- ☑ Stability Checks
- ☑ Calibration Certificate JD
- ☑ Calibration Adjustment x3
- ☑ Post-Stability Checks x 2
- ☐ Flow Calibration JD
- ☐ Form 40
- ☐ Other _____

Notes/Suggested Service: Calibration adjustment performed to bring values closer to nominal. JD

I recommend sending the instrument to a repair facility for evaluation. JD

Correction to DGS Lot#. Shayla Platt sent back during Technical Review. 7/9/19 JD

- ☑ **Instrument Complies with Chapter 11D-8, FAC**
- ☐ **Instrument Does Not Comply with Chapter 11D-8, FAC**
- ☐ **Return to/Place into Evidentiary Use**
- ☑ **Remain Out of Evidentiary Use**
- ☐ **Conduct an Agency Inspection Before Evidentiary Use**

SP 7/9/19 Tech Review / Date

Brett Kurtzland 7/9/19 Admin Review / Date

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: CAPE CORAL PD
Time of Inspection: 13:36 Date of Inspection: 07/09/2019 Serial Number: 80-001647
Software: 8100.27

Check or Test	YES	NO	Check or Test	YES	NO
Diagnostic Check (Pre-Inspection): OK	Yes		Date and/or Time Adjusted		No
Minimum Sample Volume Check: OK	Yes		Barometric Pressure Sensor Check: OK	Yes	
Alcohol Free Subject Test: 0.000	Yes		Mouth Alcohol Test: Slope Not Met	Yes	
Interferent Detect Test: Interferent Detect	Yes		Diagnostic Check (Post-Inspection): OK	Yes	

Alcohol Free Test (g/210L)	0.05g/210L Test (g/210L) Lot#:201707D Exp: 07/25/2019	0.08g/210L Test (g/210L) Lot#:201707E Exp: 07/25/2019	0.20g/210L Test (g/210L) Lot#:201707C Exp: 07/24/2019	0.08 g/210L Dry Gas Std Test (g/210L) Lot#:AG831804 Exp: 11/14/2020
0.000	0.052	0.081	0.192	0.079
0.000	0.051	0.082	0.192	0.078
0.000	0.051	0.081	0.191	0.078
0.000	0.051	0.082	0.192	0.078
0.000	0.051	0.081	0.192	0.078
0.000	0.051	0.081	0.192	0.078
0.000	0.051	0.082	0.192	0.077
0.000	0.051	0.082	0.191	0.078
0.000	0.051	0.082	0.191	0.079
0.000	0.051	0.082	0.192	0.078
Standard Deviations	0.0003	0.0005	0.0004	0.0005

Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0004 Number of Simulators Used: 5

Remarks:

SP BK 1/9/19

The above instrument complies (X) does not comply ( ) with Chapter 11D-8, FAC.

I certify that I performed this inspection in accordance with the provisions of Chapter 11D-8, FAC.

TJ Graham THOMAS J GRAHAM
Signature and Printed Name

07/09/2019
Date

FDLE/ATP Form 41 –Revised August 2005

80-001647
7/9/19
JD

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:17
Control Test	0.050	08:18
Air Blank	0.000	08:18
Control Test	0.050	08:19
Air Blank	0.000	08:19
Control Test	0.050	08:20
Air Blank	0.000	08:21
Control Test Stats		
Average	0.0500	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:22
Control Test	0.079	08:23
Air Blank	0.000	08:23
Control Test	0.079	08:24
Air Blank	0.000	08:24
Control Test	0.080	08:25
Air Blank	0.000	08:26
Control Test Stats		
Average	0.0793	
Std Dev	0.0006	
Rel Std Dev(%)	0.7277	

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:27
Control Test	0.193	08:27
Air Blank	0.000	08:28
Control Test	0.193	08:28
Air Blank	0.000	08:29
Control Test	0.193	08:30
Air Blank	0.000	08:30
Control Test Stats		
Average	0.1930	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:40
Control Test	0.079	08:40
Air Blank	0.000	08:41
Control Test	0.078	08:41
Air Blank	0.000	08:41
Control Test	0.078	08:42
Air Blank	0.000	08:42
Control Test Stats		
Average	0.0783	
Std Dev	0.0006	
Rel Std Dev(%)	0.7370	

DGS

JD
Operator's Signature

SP
BK
7/9/19

Calibration Certificate

Florida Department of Law Enforcement
Alcohol Testing Program
2729 Fort Knox Blvd.
Bldg. 2, Suite 1300
Tallahassee, FL 32308

This is to certify the calibration of Intoxilyzer 8000 serial number 80-001647 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-001647
Owning Agency:	CAPE CORAL PD
Calibration Date:	07/09/2019
Calibration Time:	13:36

	UNCERTAINTY* ±
0.050 g/ 210 L	0.004
0.080 g/ 210 L	0.004
0.200 g/ 210 L	0.007
0.080 g/ 210 L Dry Gas Control	0.005

All results are reported in g/ 210 L.
Bias is limited by calibration acceptance criteria. All calibration results must be within ± 0.005 or 5%, whichever is greater, of the target alcohol concentration.
*Uncertainty is based on fleet-wide data and is expressed to a 99.73% level of confidence (k=3).

TRACEABILITY INFORMATION
This instrument was calibrated using solutions prepared by Alcohol Countermeasure Systems, Inc. (ACS). ACS prepared and certified these CRMs in accordance with ISO 17034 and ISO/ IEC 17025 Standards.

Simulator temperatures are traceable to NIST. Thermometer temperatures are checked with NIST traceable Eutechnics 4400 digital thermometers calibrated by Precision Metrology in accordance with ISO/ IEC 17025 standards.

Dry gas control measurements are traceable to NIST through the uses of CRMs supplied by an accredited CRM supplier. The supplier of dry gas standard controls prepared and certified the CRMs in accordance with ISO Guide 34 and ISO/ IEC 17025 standards.

07/09/2019
Date

THOMAS J GRAHAM,
Department Inspector

SP BK 7/9/19

80-001647 Calibration Adjustment #1

7/9/19 JD A simulator jar broke during this cal. Adj. Cal. Adj. will be repeated. No post stabilities run with this cal. JD

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019 08:54:12

Auto Calibration
Max Power Res Value = 42
Auto Range Res Value = 25
Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12568, 9um Io = 13466

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1390	(-0.0020)
Sample #2 =	0.1450	(0.0300)
Sample #3 =	0.1760	(0.0560)
Sample #4 =	0.1210	(0.1170)

Avg % Abs = 0.1473 (0.0677)
STD DEV = 0.0276 (0.0447)
REL STD DEV = 18.715 (65.997)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.2250	(-0.0100)
Sample #2 =	0.2160	(-0.0070)
Sample #3 =	0.2250	(0.0090)
Sample #4 =	0.1920	(0.0300)

Avg % Abs = 0.2110 (0.0107)
STD DEV = 0.0171 (0.0186)
REL STD DEV = 8.085 (173.965)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12550, 9um Io = 13461

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7670	(-0.0030)
Sample #2 =	0.8120	(0.0000)
Sample #3 =	0.7940	(0.0100)
Sample #4 =	0.7760	(0.0280)

Avg % Abs = 0.7940 (0.0127)
STD DEV = 0.0180 (0.0142)
REL STD DEV = 2.267 (112.020)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4940	(-0.0010)
Sample #2 =	1.4920	(0.0000)
Sample #3 =	1.4910	(-0.0060)
Sample #4 =	1.4870	(0.0000)

Avg % Abs = 1.4900 (-0.0020)
STD DEV = 0.0026 (0.0035)
REL STD DEV = 0.178 (173.205)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12543, 9um Io = 13457

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8550	(-0.0140)
Sample #2 =	1.8770	(-0.0360)
Sample #3 =	1.8940	(0.0030)
Sample #4 =	1.8760	(0.0130)

Avg % Abs = 1.8823 (-0.0067)
STD DEV = 0.0101 (0.0259)
REL STD DEV = 0.537 (388.362)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5620	(-0.0100)
Sample #2 =	3.5910	(-0.0050)
Sample #3 =	3.6000	(-0.0020)
Sample #4 =	3.5970	(-0.0010)

Avg % Abs = 3.5960 (-0.0027)
STD DEV = 0.0046 (0.0021)
REL STD DEV = 0.127 (78.062)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12540, 9um Io = 13458

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5190	(-0.0190)
Sample #2 =	3.5350	(-0.0220)
Sample #3 =	3.5670	(0.0050)
Sample #4 =	3.6020	(-0.0090)

Avg % Abs = 3.5680 (-0.0087)
STD DEV = 0.0335 (0.0135)
REL STD DEV = 0.939 (155.805)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.7140	(0.0030)
Sample #2 =	6.7630	(-0.0050)
Sample #3 =	6.7860	(0.0120)
Sample #4 =	6.8160	(0.0090)

Avg % Abs = 6.7883 (0.0053)
STD DEV = 0.0266 (0.0091)
REL STD DEV = 0.392 (170.133)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12540, 9um Io = 13456

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.0850	(-0.0090)
Sample #2 =	5.1200	(-0.0070)
Sample #3 =	5.1500	(0.0110)
Sample #4 =	5.1770	(0.0140)

Avg % Abs = 5.1490 (0.0060)
STD DEV = 0.0285 (0.0114)
REL STD DEV = 0.554 (189.297)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.6200	(-0.0110)
Sample #2 =	9.6810	(0.0020)
Sample #3 =	9.7330	(-0.0030)
Sample #4 =	9.7740	(0.0080)

Avg % Abs = 9.7293 (0.0023)
STD DEV = 0.0466 (0.0055)
REL STD DEV = 0.479 (236.039)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.147
Std Dev = 0.03 Rel Std Dev = 18.72
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.794
Std Dev = 0.02 Rel Std Dev = 2.27
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.882
Std Dev = 0.01 Rel Std Dev = 0.54
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.568
Std Dev = 0.03 Rel Std Dev = 0.94
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.149
Std Dev = 0.03 Rel Std Dev = 0.55
Zero Order Coef = -316.15
First Order Coef = 2630.36
Second Order Coef = 39.15
Standard Deviation = 69.408096

<<<<< CHANNEL 2 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.211
Std Dev = 0.02 Rel Std Dev = 8.08
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.490
Std Dev = 0.00 Rel Std Dev = 0.18
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.596
Std Dev = 0.00 Rel Std Dev = 0.13
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.788
Std Dev = 0.03 Rel Std Dev = 0.39
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.729
Std Dev = 0.05 Rel Std Dev = 0.48
Zero Order Coef = -214.69
First Order Coef = 1329.42
Second Order Coef = 16.34
Standard Deviation = 65.249222

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.002	-0.0015
0.040	0.038	0.0023
0.100	0.100	-0.0002
0.200	0.201	-0.0009
0.300	0.300	0.0004

Solution Stats Quadratic Fit Chan 2

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.001	-0.0014
0.040	0.038	0.0021
0.100	0.100	-0.0003
0.200	0.201	-0.0008
0.300	0.300	0.0004

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1

Sample #1 =	3005.00
Sample #2 =	2999.00
Sample #3 =	3060.00
Sample #4 =	3065.00

Average Result = 3041.3333
STD DEV = 36.7469
REL STD DEV = 1.208
****
***** CHANNEL 2

Sample #1 =	3265.00
Sample #2 =	3284.00
Sample #3 =	3288.00
Sample #4 =	3278.00

Average Result = 3283.3333
STD DEV = 5.0332
REL STD DEV = 0.153
****
Dry Gas H2O Adjust Results **********
Barometric Pressure = 1011
3 um H2O Adjust (mg/l*10,000) = 768
9 um H2O Adjust (mg/l*10,000) = 526
**** AUTO CAL PASS

SP BK 7/9/19

80-001647
7/9/19 Calibration Adjustment #2
10

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019 09:49:07

Auto Calibration
Max Power Res Value = 42
Auto Range Res Value = 26

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12755, 9um Io = 13566

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1630	(-0.0070)
Sample #2 =	0.1430	(0.0450)
Sample #3 =	0.1440	(0.0440)
Sample #4 =	0.1500	(0.0450)

Avg % Abs = 0.1457 (0.0447)
STD DEV = 0.0038 (0.0006)
REL STD DEV = 2.599 (1.293)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.2150	(0.0000)
Sample #2 =	0.2100	(0.0220)
Sample #3 =	0.2000	(0.0130)
Sample #4 =	0.2160	(0.0050)

Avg % Abs = 0.2087 (0.0133)
STD DEV = 0.0081 (0.0085)
REL STD DEV = 3.874 (63.787)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12747, 9um Io = 13564

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7940	(0.0000)
Sample #2 =	0.7900	(0.0180)
Sample #3 =	0.8140	(0.0010)
Sample #4 =	0.7880	(0.0240)

Avg % Abs = 0.7973 (0.0143)
STD DEV = 0.0145 (0.0119)
REL STD DEV = 1.815 (83.235)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4920	(-0.0180)
Sample #2 =	1.4700	(0.0230)
Sample #3 =	1.5060	(-0.0030)
Sample #4 =	1.4770	(0.0120)

Avg % Abs = 1.4843 (0.0107)
STD DEV = 0.0191 (0.0131)
REL STD DEV = 1.286 (122.355)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12742, 9um Io = 13562

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.9070	(-0.0160)
Sample #2 =	1.9100	(-0.0030)
Sample #3 =	1.9160	(-0.0120)
Sample #4 =	1.9010	(-0.0080)

Avg % Abs = 1.9090 (-0.0077)
STD DEV = 0.0075 (0.0045)
REL STD DEV = 0.395 (58.816)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.6080	(0.0050)
Sample #2 =	3.6210	(0.0110)
Sample #3 =	3.6380	(0.0080)
Sample #4 =	3.6380	(0.0010)

Avg % Abs = 3.6323 (0.0067)
STD DEV = 0.0098 (0.0051)
REL STD DEV = 0.270 (76.974)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12743, 9um Io = 13560

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5910	(-0.0050)
Sample #2 =	3.6240	(0.0090)
Sample #3 =	3.6100	(0.0150)
Sample #4 =	3.5890	(0.0360)

Avg % Abs = 3.6077 (0.0200)
STD DEV = 0.0176 (0.0142)
REL STD DEV = 0.488 (70.887)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.8460	(-0.0180)
Sample #2 =	6.8800	(-0.0100)
Sample #3 =	6.8570	(0.0050)
Sample #4 =	6.8540	(0.0040)

Avg % Abs = 6.8637 (-0.0003)
STD DEV = 0.0142 (0.0084)
REL STD DEV = 0.207 (2515.948)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12739, 9um Io = 13559

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.2160	(-0.0120)
Sample #2 =	5.2460	(0.0050)
Sample #3 =	5.2640	(0.0030)
Sample #4 =	5.2780	(-0.0110)

Avg % Abs = 5.2627 (-0.0010)
STD DEV = 0.0160 (0.0087)
REL STD DEV = 0.305 (871.780)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.8750	(-0.0130)
Sample #2 =	9.9090	(-0.0030)
Sample #3 =	9.9090	(0.0220)
Sample #4 =	9.9150	(0.0040)

Avg % Abs = 9.9110 (0.0077)
STD DEV = 0.0035 (0.0129)
REL STD DEV = 0.035 (168.222)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.146
Std Dev = 0.00 Rel Std Dev = 2.60
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.797
Std Dev = 0.01 Rel Std Dev = 1.81
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.909
Std Dev = 0.01 Rel Std Dev = 0.40
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.608
Std Dev = 0.02 Rel Std Dev = 0.49
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.263
Std Dev = 0.02 Rel Std Dev = 0.30
Zero Order Coef = -322.99
First Order Coef = 2637.94
Second Order Coef = 25.95
Standard Deviation = 66.440689

<<<<< CHANNEL 2 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.209
Std Dev = 0.01 Rel Std Dev = 3.87
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.484
Std Dev = 0.02 Rel Std Dev = 1.29
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.632
Std Dev = 0.01 Rel Std Dev = 0.27
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.864
Std Dev = 0.01 Rel Std Dev = 0.21
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.911
Std Dev = 0.00 Rel Std Dev = 0.03
Zero Order Coef = -211.51
First Order Coef = 1331.32
Second Order Coef = 13.13
Standard Deviation = 68.396599

Solution Stats Quadratic Fit Chan 1

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.001	-0.0013
0.040	0.038	0.0023
0.100	0.101	-0.0010
0.200	0.200	-0.0002
0.300	0.300	0.0002

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.001	-0.0014
0.040	0.038	0.0023
0.100	0.101	-0.0007
0.200	0.200	-0.0004
0.300	0.300	0.0003

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 2936.00
Sample #2 = 2906.00
Sample #3 = 2971.00
Sample #4 = 3023.00
Average Result = 2966.6667
STD DEV = 58.6202
REL STD DEV = 1.976
****
***** CHANNEL 2
Sample #1 = 3249.00
Sample #2 = 3231.00
Sample #3 = 3247.00
Sample #4 = 3226.00
Average Result = 3234.6667
STD DEV = 10.9697
REL STD DEV = 0.339
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1012
3 um H20 Adjust (mg/l*10,000) = 843
9 um H20 Adjust (mg/l*10,000) = 575
**** AUTO CAL PASS

SP
BK
7/9/19

80-001647

JD 7/9/19 JD Post Stability Checks #1 Out of acceptable range. JD

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:50
Control Test	0.079	10:50
Air Blank	0.000	10:51
Control Test	0.079	10:51
Air Blank	0.000	10:52
Control Test	0.079	10:52
Air Blank	0.000	10:52
Control Test Stats		
Average	0.0790	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

DGS

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:36
Control Test	0.052	10:37
Air Blank	0.000	10:37
Control Test	0.052	10:38
Air Blank	0.000	10:39
Control Test	0.052	10:39
Air Blank	0.000	10:40
Control Test Stats		
Average	0.0520	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:41
Control Test	0.080	10:42
Air Blank	0.000	10:42
Control Test	0.081	10:43
Air Blank	0.000	10:43
Control Test	0.081	10:44
Air Blank	0.000	10:45
Control Test Stats		
Average	0.0807	
Std Dev	0.0006	
Rel Std Dev(%)	0.7157	

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:46
Control Test	0.192	10:46
Air Blank	0.000	10:47
Control Test	0.195	10:47
Air Blank	0.000	10:48
Control Test	0.195	10:49
Air Blank	0.000	10:49
Control Test Stats		
Average	0.1940	
Std Dev	0.0017	
Rel Std Dev(%)	0.8928	

Possible cold tubing. I will repeat test. JD

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:54
Control Test	0.193	10:55
Air Blank	0.000	10:55
Control Test	0.192	10:56
Air Blank	0.000	10:57
Control Test	0.193	10:57
Air Blank	0.000	10:58
Control Test Stats		
Average	0.1927	
Std Dev	0.0006	
Rel Std Dev(%)	0.2997	

Out JD

JD
Operator's Signature

SP
BK
7/9/19

80-001647
7/9/19 Calibration Adjustment #3
JD

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019 11:01:47

Auto Calibration
Max Power Res Value = 43
Auto Range Res Value = 26

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12766, 9um Io = 13566

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1660	(0.0080)
Sample #2 =	0.1700	(0.0660)
Sample #3 =	0.1500	(0.0890)
Sample #4 =	0.1410	(0.1170)

Avg % Abs = 0.1537 (0.0907)
STD DEV = 0.0148 (0.0255)
REL STD DEV = 9.660 (28.170)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1860	(-0.0020)
Sample #2 =	0.2220	(-0.0090)
Sample #3 =	0.1770	(0.0110)
Sample #4 =	0.2130	(-0.0030)

Avg % Abs = 0.2040 (-0.0003)
STD DEV = 0.0238 (0.0103)
REL STD DEV = 11.672 (3078.960)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12748, 9um Io = 13565

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7760	(-0.0160)
Sample #2 =	0.7900	(0.0140)
Sample #3 =	0.7860	(0.0080)
Sample #4 =	0.7710	(0.0360)

Avg % Abs = 0.7823 (0.0193)
STD DEV = 0.0100 (0.0147)
REL STD DEV = 1.280 (76.253)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4260	(-0.0020)
Sample #2 =	1.4560	(0.0110)
Sample #3 =	1.4900	(-0.0070)
Sample #4 =	1.4820	(0.0040)

Avg % Abs = 1.4760 (0.0027)
STD DEV = 0.0178 (0.0091)
REL STD DEV = 1.204 (340.266)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12743, 9um Io = 13563

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8970	(-0.0140)
Sample #2 =	1.9150	(-0.0140)
Sample #3 =	1.9210	(-0.0050)
Sample #4 =	1.9100	(0.0120)

Avg % Abs = 1.9153 (-0.0023)
STD DEV = 0.0055 (0.0132)
REL STD DEV = 0.288 (565.866)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5930	(-0.0160)
Sample #2 =	3.6430	(-0.0190)
Sample #3 =	3.6240	(0.0030)
Sample #4 =	3.6010	(0.0210)

Avg % Abs = 3.6227 (0.0017)
STD DEV = 0.0210 (0.0200)
REL STD DEV = 0.581 (1201.998)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12740, 9um Io = 13562

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5660	(-0.0110)
Sample #2 =	3.6190	(-0.0170)
Sample #3 =	3.6240	(0.0020)
Sample #4 =	3.6170	(0.0090)

Avg % Abs = 3.6200 (-0.0020)
STD DEV = 0.0036 (0.0135)
REL STD DEV = 0.100 (672.681)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.7490	(-0.0030)
Sample #2 =	6.8350	(0.0000)
Sample #3 =	6.8630	(-0.0020)
Sample #4 =	6.8690	(0.0030)

Avg % Abs = 6.8557 (0.0003)
STD DEV = 0.0181 (0.0025)
REL STD DEV = 0.265 (754.984)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12741, 9um Io = 13564

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.1530	(-0.0200)
Sample #2 =	5.2320	(0.0120)
Sample #3 =	5.2530	(-0.0030)
Sample #4 =	5.2650	(0.0320)

Avg % Abs = 5.2500 (0.0137)
STD DEV = 0.0167 (0.0176)
REL STD DEV = 0.318 (128.484)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.7030	(0.0100)
Sample #2 =	9.8550	(0.0350)
Sample #3 =	9.9120	(0.0080)
Sample #4 =	9.9520	(0.0220)

Avg % Abs = 9.9063 (0.0217)
STD DEV = 0.0487 (0.0135)
REL STD DEV = 0.492 (62.322)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.154
Std Dev = 0.01 Rel Std Dev = 9.66
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.782
Std Dev = 0.01 Rel Std Dev = 1.28
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.915
Std Dev = 0.01 Rel Std Dev = 0.29
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.620
Std Dev = 0.00 Rel Std Dev = 0.10
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.250
Std Dev = 0.02 Rel Std Dev = 0.32
Zero Order Coef = -306.58
First Order Coef = 2607.48
Second Order Coef = 32.15
Standard Deviation = 93.696320

<<<<< CHANNEL 2 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.204
Std Dev = 0.02 Rel Std Dev = 11.67
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.476
Std Dev = 0.02 Rel Std Dev = 1.20
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.623
Std Dev = 0.02 Rel Std Dev = 0.58
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.856
Std Dev = 0.02 Rel Std Dev = 0.26
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.906
Std Dev = 0.05 Rel Std Dev = 0.49
Zero Order Coef = -204.87
First Order Coef = 1334.23
Second Order Coef = 12.84
Standard Deviation = 69.124710

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.002	-0.0020
0.040	0.037	0.0032
0.100	0.101	-0.0009
0.200	0.201	-0.0006
0.300	0.300	0.0004

Solution Stats Quadratic Fit Chan 2

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.001	-0.0014
0.040	0.038	0.0024
0.100	0.101	-0.0007
0.200	0.200	-0.0005
0.300	0.300	0.0003

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 2914.00
Sample #2 = 2913.00
Sample #3 = 2983.00
Sample #4 = 2998.00
Average Result = 2964.6667
STD DEV = 45.3689
REL STD DEV = 1.530
****
***** CHANNEL 2
Sample #1 = 3261.00
Sample #2 = 3240.00
Sample #3 = 3261.00
Sample #4 = 3269.00
Average Result = 3256.6667
STD DEV = 14.9778
REL STD DEV = 0.460
****
Dry Gas H2O Adjust Results **********
Barometric Pressure = 1012
3 um H2O Adjust (mg/l*10,000) = 845
9 um H2O Adjust (mg/l*10,000) = 553
**** AUTO CAL PASS

SP
BK
7/9/19

80-001647
7/9/19
JD

Post Stability Checks #2

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:37
Control Test	0.052	11:38
Air Blank	0.000	11:39
Control Test	0.051	11:39
Air Blank	0.000	11:40
Control Test	0.051	11:40
Air Blank	0.000	11:41

Control Test Stats

Average	0.0513
Std Dev	0.0006
Rel Std Dev(%)	1.1247

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:42
Control Test	0.081	11:43
Air Blank	0.000	11:43
Control Test	0.082	11:44
Air Blank	0.000	11:44
Control Test	0.082	11:45
Air Blank	0.000	11:45

Control Test Stats

Average	0.0817
Std Dev	0.0006
Rel Std Dev(%)	0.7070

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:46
Control Test	0.194	11:47
Air Blank	0.000	11:48
Control Test	0.194	11:48
Air Blank	0.000	11:49
Control Test	0.194	11:49
Air Blank	0.000	11:50

Control Test Stats

Average	0.1940
Std Dev	0.0000
Rel Std Dev(%)	0.0000

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:51
Control Test	0.079	11:51
Air Blank	0.000	11:52
Control Test	0.079	11:52
Air Blank	0.000	11:53
Control Test	0.080	11:53
Air Blank	0.000	11:54

Control Test Stats

Average	0.0793
Std Dev	0.0006
Rel Std Dev(%)	0.7277

DGS

JD
Operator's Signature

CAPE CORAL PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001647
07/09/2019
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:56
Control Test	0.000	11:56
Air Blank	0.000	11:57
Control Test	0.000	11:57
Air Blank	0.000	11:58
Control Test	0.000	11:59
Air Blank	0.000	11:59

Control Test Stats

Average	0.0000
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DI water test.
JD

JD
Operator's Signature

SP
13K
7/9/19