FDLE

Florida Department of Law Enforcement

INSTRUMENT PROCESSING SHEET

Agency Florida Highway Patrol S/N 80-001120

Date In 07/30/2018 DI Completion Date 07/31/2018 ☑Ship ☐P/U ☐H/D ☐CMI ☐EE

Intake Performed By MDH

- ☑ 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

AUG 07 2018

Alcohol Testing Program

Quality Checks Performed By Dear

- ☑ Breath Tube Screen
- ☑ Replace External O-Rings
- ☑ Instrument Set Up Verified
- ☑ R-Value 215
- ☑ Flow Verification (L/s)

Flow Column # ATP 101

32 mm	.164	(.139 - .169)
36 mm	.183	(.156 - .190)
53 mm	.253	(.228 - .278)
103 mm	.519	(.447 - .547)

- ☑ Barometric Pressure Check

Gauge ID # 28199

- ☑ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD3967	201707D 07/25/2019
0.080	SD3968	201707E 07/25/2019
0.200	SD3969	201707C 07/24/2019
0.080 DGS	N/A	AG805701 02/26/2020

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 Dear

- ☑ Lab Temp °C 21.74C

External Digital Therm. ID#: 300949

- ☑ 34°C +-.2 Serial #: SD3967
- ☑ 34°C +-.2 Serial #: SD3968
- ☑ 34°C +-.2 Serial #: SD3969

Calibration Adjustment Performed By

Barometric Pressure Gauge ID #

Simulator	Serial Number	Lot Number	Expiration
0.000		N/A	N/A
0.040			
0.100			
0.200			
0.300			
0.080 DGS	N/A		

☐ Post Calibration Adjustment Stability Checks

Simulator	Serial Number	Lot Number	Expiration
0.050			
0.080			
0.200			
0.080 DGS	N/A		

Department Inspection Performed By Dear

Barometric Pressure ID# 68639

Gauge 1016 Instrument 1017

Mouth Alcohol Solution Lot # 2017-B

Acetone Stock Solution Lot # 2018-A

Simulator	Serial Number
0.000	SD3965
Interferent	SD3966
0.050	SD3967
0.080	SD3968
0.200	SD3969

Attachments

- ☑ Form 41
- ☑ Stability Checks
- ☑ Calibration Certificate
- ☐ Calibration Adjustment
- ☐ Post-Stability Checks
- ☐ Flow Calibration
- ☐ Form 40
- ☐ Other

Notes/Suggested Service: E-mailed ☑ APPROVED

- ☑ **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**

RJM 8/7/18 — Tech Review / Date

8/7/18 — Admin Review / Date

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: FHP TROOP K
Time of Inspection: 09:03 Date of Inspection: 07/31/2018

Serial Number: 80-001120
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#:AG805701 Exp: 02/26/2020
0.000	0.048	0.080	0.200	0.079
0.000	0.049	0.080	0.201	0.079
0.000	0.049	0.080	0.200	0.079
0.000	0.049	0.080	0.201	0.079
0.000	0.049	0.081	0.201	0.080
0.000	0.049	0.080	0.201	0.079
0.000	0.049	0.080	0.201	0.079
0.000	0.049	0.080	0.201	0.080
0.000	0.049	0.081	0.201	0.080
0.000	0.049	0.081	0.201	0.080

Standard Deviations	0.0003	0.0004	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:

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.

DAVID E REYES-RIVERA
Signature and Printed Name

07/31/2018
Date

8/7/18

FDLE/ATP Form 41 –Revised August 2005

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Stabilities	80-001120	Florida Highway Patrol	07/31/2018	Dell

0.05g/210L

SN: SD3967 Temp: 34.08c

0.047 to 0.053 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/31/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:00
Control Test	0.048	07:01
Air Blank	0.000	07:01
Control Test	0.048	07:02
Air Blank	0.000	07:03
Control Test	0.048	07:03
Air Blank	0.000	07:04
Control Test Stats		
Average	0.0480	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

Dell
Operator's Signature

0.08g/210L

SN: SD3968 Temp: 34.08c

0.077 to 0.083 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/31/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:05
Control Test	0.078	07:06
Air Blank	0.000	07:06
Control Test	0.079	07:07
Air Blank	0.000	07:07
Control Test	0.080	07:08
Air Blank	0.000	07:09
Control Test Stats		
Average	0.0790	
Std Dev	0.0010	
Rel Std Dev(%)	1.2658	

Dell
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.09c

0.194 to 0.206 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/31/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:10
Control Test	0.198	07:10
Air Blank	0.000	07:11
Control Test	0.198	07:11
Air Blank	0.000	07:12
Control Test	0.199	07:13
Air Blank	0.000	07:13
Control Test Stats		
Average	0.1983	
Std Dev	0.0006	
Rel Std Dev(%)	0.2911	

Dell
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/31/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:14
Control Test	0.079	07:15
Air Blank	0.000	07:15
Control Test	0.079	07:15
Air Blank	0.000	07:16
Control Test	0.079	07:16
Air Blank	0.000	07:17
Control Test Stats		
Average	0.0790	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

Dell
Operator's Signature

PGM

Calibration Certificate

Florida Department of Law Enforcement
Alcohol Testing Program
4700 Terminal Drive, Suite 1
Ft. Myers, FL 33907

This is to certify the calibration of Intoxilyzer 8000 serial number 80-001120 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-001120		UNCERTAINTY* ±
Owning Agency:	FHP TROOP K	0.050 g/ 210 L	0.004
Calibration Date:	07/31/2018	0.080 g/ 210 L	0.005
Calibration Time:	09:03	0.200 g/ 210 L	0.008
		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.

This document shall not be reproduced except in full, without written approval of the Florida Department of Law Enforcement Alcohol Testing Program.

07/31/2018
Date

DAVID E REYES-RIVERA,
Department Inspector

FDLE/ATP Form 69 July 2018
Issuing Authority: Alcohol Testing Program

Service • Integrity • Respect • Quality

INSTRUMENT PROCESSING SHEET

Florida Department of Law Enforcement

Agency Florida Highway Patrol S/N 80-001120

Date In 07/03/2018 DI Completion Date ~~07/05/2018~~ JD 7/27/18 ☑Ship ☐P/U ☐H/D ☑CMI ☐EE

Intake Performed By MDA

- ☑ 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 30 2018

Alcohol Testing Program

Quality Checks Performed By Dell

- ☑ Breath Tube Screen
- ☑ Replace External O-Rings
- ☑ Instrument Set Up Verified
- ☑ R-Value 217
- ☑ Flow Verification (L/s)

Flow Column # ATP 101

32 mm	.148	(.139 - .169)
36 mm	.164	(.156 - .190)
53 mm	.235	(.228 - .278)
103 mm	.515	(.447 - .547)

- ☑ Barometric Pressure Check

Gauge ID # 28199

- ☑ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD3967	201707D 07/25/2019
0.080	SD3968	201707E 07/25/2019
0.200	SD3969	201707C 07/24/2019
0.080 DGS	N/A	AG805701 02/26/2020

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 Dell

- ☑ Lab Temp °C 22.66C

External Digital Therm. ID#: 300949

- ☑ 34°C +-.2 Serial #: SD3967
- ☑ 34°C +-.2 Serial #: SD3968
- ☑ 34°C +-.2 Serial #: SD3969

Calibration Adjustment Performed By Dell

Barometric Pressure Gauge 1019 ID # 28663

Simulator	Serial Number	Lot Number	Expiration
0.000	2235	N/A	N/A
0.040	2108	17410	12/06/2019
0.100	2137	18070	02/26/2020
0.200	2138	17340	10/09/2019
0.300	2139	18110	04/02/2020
0.080 DGS	N/A	34416080A2	02/05/2019

☑ Post Calibration Adjustment Stability Checks

Simulator	Serial Number	Lot Number	Expiration
0.050	SD3967	201707D	07/25/2019
0.080	SD3968	201707E	07/25/2019
0.200	SD3969 ~~SD3969~~		07/24/2019
0.080 DGS	N/A 201707C	AG805701	02/26/2020

Department Inspection Performed By

Barometric Pressure ID#

Gauge Instrument

Mouth Alcohol Solution Lot #

Acetone Stock Solution Lot #

Simulator	Serial Number
0.000	
Interferent	
0.050	
0.080	
0.200	

Attachments

- ☑ Form 41
- ☑ Stability Checks
- ☑ Calibration Certificate
- ☑ Calibration Adjustment X2
- ☑ Post-Stability Checks X2
- ☐ Flow Calibration
- ☐ Form 40
- ☐ Other

Notes/Suggested Service: E-mailed

Unable to perform calibration adjust (0.08 variant exceeds limitations) Sent to repair facility.

- ☐ **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**

7/13/18 Tech Review / Date

7/30/18 Admin Review / Date

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Stabilities	80-00~~1020~~ 1120 7/30/18	Florida Highway Patrol	07/05/2018	DELL

0.05g/210L	0.08g/210L	0.20g/210L	DGS 0.08g/210L
SN: SD3967 Temp: 34.07c	SN: SD3968 Temp: 34.07c	SN: SD3969 Temp:34.08c	Lot AG805701
0.047 to 0.053 ☑	0.077 to 0.083 ☑	0.194 to 0.206 ☑	0.077 to 0.083 ☒

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	06:58
Control Test	0.051	06:58
Air Blank	0.000	06:59
Control Test	0.051	06:59
Air Blank	0.000	07:00
Control Test	0.051	07:01
Air Blank	0.000	07:01

Control Test Stats

Average	0.0510
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DELL
Operator's Signature

7/30/18

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:03
Control Test	0.083	07:03
Air Blank	0.000	07:04
Control Test	0.083	07:05
Air Blank	0.000	07:05
Control Test	0.082	07:06
Air Blank	0.000	07:06

Control Test Stats

Average	0.0827
Std Dev	0.0006
Rel Std Dev(%)	0.6984

DELL
Operator's Signature

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:08
Control Test	0.200	07:09
Air Blank	0.000	07:09
Control Test	0.199	07:10
Air Blank	0.000	07:10
Control Test	0.199	07:11
Air Blank	0.000	07:12

Control Test Stats

Average	0.1993
Std Dev	0.0006
Rel Std Dev(%)	0.2896

DELL
Operator's Signature

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:13
Control Test	0.078	07:13
Air Blank	0.000	07:14
Control Test	0.078	07:14
Air Blank	0.000	07:15
Control Test	0.078	07:15
Air Blank	0.000	07:15

Control Test Stats

Average	0.0780
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DELL
Operator's Signature

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018 07:24:03

Auto Calibration
Max Power Res Value = 26
Auto Range Res Value = 15

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12852, 9um Io = 14007

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1070	(-0.0220)
Sample #2 =	0.1030	(-0.0020)
Sample #3 =	0.1030	(0.0020)
Sample #4 =	0.0890	(0.0120)

Avg % Abs = 0.0983 (0.0040)
STD DEV = 0.0081 (0.0072)
REL STD DEV = 8.220 (180.278)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0760	(-0.0030)
Sample #2 =	0.0860	(-0.0060)
Sample #3 =	0.1060	(-0.0210)
Sample #4 =	0.0780	(-0.0050)

Avg % Abs = 0.0900 (-0.0107)
STD DEV = 0.0144 (0.0090)
REL STD DEV = 16.025 (84.027)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12848, 9um Io = 14007

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.8100	(-0.0090)
Sample #2 =	0.8100	(-0.0010)
Sample #3 =	0.8350	(0.0050)
Sample #4 =	0.8210	(0.0110)

Avg % Abs = 0.8220 (0.0050)
STD DEV = 0.0125 (0.0060)
REL STD DEV = 1.524 (120.000)

7/30/18

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.5770	(-0.0070)
Sample #2 =	1.5680	(0.0090)
Sample #3 =	1.5700	(0.0070)
Sample #4 =	1.5680	(0.0090)

Avg % Abs = 1.5687 (0.0083)
STD DEV = 0.0012 (0.0012)
REL STD DEV = 0.074 (13.856)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12844, 9um Io = 14004

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8700	(-0.0020)
Sample #2 =	1.8700	(0.0000)
Sample #3 =	1.8840	(0.0000)
Sample #4 =	1.8780	(0.0060)

Avg % Abs = 1.8773 (0.0020)
STD DEV = 0.0070 (0.0035)
REL STD DEV = 0.374 (173.205)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.7220	(-0.0140)
Sample #2 =	3.7360	(0.0000)
Sample #3 =	3.7100	(0.0000)
Sample #4 =	3.7300	(0.0040)

Avg % Abs = 3.7253 (0.0013)
STD DEV = 0.0136 (0.0023)
REL STD DEV = 0.365 (173.205)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12841, 9um Io = 14002

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5740	(-0.0110)
Sample #2 =	3.5740	(-0.0030)
Sample #3 =	3.5850	(-0.0010)
Sample #4 =	3.5630	(0.0030)

Avg % Abs = 3.5740 (-0.0003)
STD DEV = 0.0110 (0.0031)
REL STD DEV = 0.308 (916.515)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	7.1040	(-0.0060)
Sample #2 =	7.1150	(-0.0070)
Sample #3 =	7.1260	(-0.0020)
Sample #4 =	7.0900	(-0.0090)

Avg % Abs = 7.1103 (-0.0060)
STD DEV = 0.0184 (0.0036)
REL STD DEV = 0.259 (60.093)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12840, 9um Io = 14002

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.2630	(-0.0200)
Sample #2 =	5.2790	(0.0010)
Sample #3 =	5.2620	(0.0100)
Sample #4 =	5.2690	(0.0110)

Avg % Abs = 5.2700 (0.0073)
STD DEV = 0.0085 (0.0055)
REL STD DEV = 0.162 (75.103)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	10.3760	(-0.0070)
Sample #2 =	10.3850	(0.0240)
Sample #3 =	10.4120	(0.0070)
Sample #4 =	10.3640	(0.0270)

Avg % Abs = 10.3870 (0.0193)
STD DEV = 0.0241 (0.0108)
REL STD DEV = 0.232 (55.789)

Optical Calibration
SN: 80-001120
Agency: FHP
Date: 7/5/2018
Quadratic Fit: +/-0.002g/210L
By:

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

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.098
Std Dev = 0.01 Rel Std Dev = 8.22
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.822
Std Dev = 0.01 Rel Std Dev = 1.52
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.877
Std Dev = 0.01 Rel Std Dev = 0.37
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.574
Std Dev = 0.01 Rel Std Dev = 0.31
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.270
Std Dev = 0.01 Rel Std Dev = 0.16
Zero Order Coef = -281.70
First Order Coef = 2663.90
Second Order Coef = 19.49
Standard Deviation = 26.335062

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.090
Std Dev = 0.01 Rel Std Dev = 16.02
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.569
Std Dev = 0.00 Rel Std Dev = 0.07
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.725
Std Dev = 0.01 Rel Std Dev = 0.37
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 7.110
Std Dev = 0.02 Rel Std Dev = 0.26
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 10.387
Std Dev = 0.02 Rel Std Dev = 0.23
Zero Order Coef = -123.63
First Order Coef = 1277.91
Second Order Coef = 10.60
Standard Deviation = 17.800823

Solution Stats Quadratic Fit Chan 1

Act g/210L	Fit g/210L	Residual g/210L
0.000	-0.000	0.0004
0.040	0.040	-0.0003
0.100	0.101	-0.0005
0.200	0.199	0.0008
0.300	0.300	-0.0003

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	-0.000	0.0002
0.040	0.040	-0.0000
0.100	0.100	-0.0005
0.200	0.199	0.0005
0.300	0.300	-0.0002

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = -228.00
Sample #2 = -232.00
Sample #3 = -273.00
Sample #4 = -247.00
Average Result = -250.6667
STD DEV = 20.7445
REL STD DEV = 8.276
****
***** CHANNEL 2
Sample #1 = -107.00
Sample #2 = -115.00
Sample #3 = -121.00
Sample #4 = -101.00
Average Result = -112.3333
STD DEV = 10.2632
REL STD DEV = 9.136
****
Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3216.00
Sample #2 = 3168.00
Sample #3 = 3214.00
Sample #4 = 3202.00
Average Result = 3194.6667
STD DEV = 23.8607
REL STD DEV = 0.747

```
**********
***** CHANNEL 2
Sample #1 =  3564.00
Sample #2 =  3576.00
Sample #3 =  3589.00
Sample #4 =  3545.00
Average Result = 3570.0000
STD DEV = 22.6053
REL STD DEV = 0.633
**********
Dry Gas H20 Adjust Results **********
  Barometric Pressure = 1019
  3 um H20 Adjust (mg/l*10,000) = 615
  9 um H20 Adjust (mg/l*10,000) = 239
**** AUTO CAL PASS
```

DGS Hose not connected
Re ran solution
DERL

Optical Calibration Cont
SN: 80-001120
Agency: FHP
Date: 7/5/2018
Quadratic Fit: +/-0.002g/210L
By: DERL

7/30/18

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Post Stabilities	80-001120	Florida Highway Patrol	07/05/2018	DERR

0.05g/210L

SN: SD3967 Temp: 34.07c

0.047 to 0.053 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:27
Control Test	0.050	08:28
Air Blank	0.000	08:28
Control Test	0.050	08:29
Air Blank	0.000	08:30
Control Test	0.050	08:30
Air Blank	0.000	08:31

Control Test Stats

Average	0.0500
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DERR
Operator's Signature

7/30/18

0.08g/210L

SN: SD3968 Temp: 34.07c

0.077 to 0.083 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:32
Control Test	0.082	08:32
Air Blank	0.000	08:33
Control Test	0.082	08:34
Air Blank	0.000	08:34
Control Test	0.082	08:35
Air Blank	0.000	08:35

Control Test Stats

Average	0.0820
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DERR
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.08c

0.194 to 0.206 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:37
Control Test	0.201	08:37
Air Blank	0.000	08:38
Control Test	0.202	08:38
Air Blank	0.000	08:39
Control Test	0.201	08:40
Air Blank	0.000	08:40

Control Test Stats

Average	0.2013
Std Dev	0.0006
Rel Std Dev.(%)	0.2868

DERR
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☒

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:42
Control Test	0.078	08:42
Air Blank	0.000	08:43
Control Test	0.078	08:43
Air Blank	0.000	08:44
Control Test	0.078	08:44
Air Blank	0.000	08:45

Control Test Stats

Average	0.0780
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DERR
Operator's Signature

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018 08:49:31

Auto Calibration
Max Power Res Value = 26
Auto Range Res Value = 15

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12843, 9um Io = 14002

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0890	(-0.0100)
Sample #2 =	0.0980	(0.0130)
Sample #3 =	0.1010	(0.0310)
Sample #4 =	0.0990	(0.0410)

Avg % Abs = 0.0993 (0.0283)
STD DEV = [illegible]
REL STD DEV = 1.538 (50.080)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0640	(0.0000)
Sample #2 =	0.0790	(-0.0010)
Sample #3 =	0.0870	(0.0000)
Sample #4 =	0.1020	(0.0020)

Avg % Abs = 0.0893 (0.0003)
STD DEV = 0.0117 (0.0015)
REL STD DEV = 13.070 (458.258)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12835, 9um Io = 14001

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.8180	(-0.0160)
Sample #2 =	0.8210	(-0.0030)
Sample #3 =	0.8160	(0.0040)
Sample #4 =	0.8210	(0.0040)

Avg % Abs = 0.8193 (0.0017)
STD DEV = 0.0029 (0.0040)
REL STD DEV = 0.352 (242.487)

7/30/18

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.5750	(-0.0040)
Sample #2 =	1.5780	(0.0000)
Sample #3 =	1.5740	(0.0060)
Sample #4 =	1.5890	(-0.0110)

Avg % Abs = 1.5803 (-0.0017)
STD DEV = 0.0078 (0.0086)
REL STD DEV = 0.492 (517.301)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12832, 9um Io = 13997

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8720	(-0.0180)
Sample #2 =	1.8880	(-0.0030)
Sample #3 =	1.8880	(-0.0100)
Sample #4 =	1.8890	(0.0040)

Avg % Abs = 1.8883 (-0.0030)
STD DEV = 0.0006 (0.0070)
REL STD DEV = 0.031 (233.333)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.7400	(-0.0330)
Sample #2 =	3.7590	(-0.0210)
Sample #3 =	3.7370	(-0.0110)
Sample #4 =	3.7450	(-0.0190)

Avg % Abs = 3.7470 (-0.0170)
STD DEV = 0.0111 (0.0053)
REL STD DEV = 0.297 (31.126)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12830, 9um Io = 13998

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5240	(-0.0230)
Sample #2 =	3.5400	(0.0000)
Sample #3 =	3.5250	(-0.0030)
Sample #4 =	3.4950	(0.0040)

Avg % Abs = 3.5200 (0.0003)
STD DEV = 0.0229 (0.0035)
REL STD DEV = 0.651 (1053.565)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	7.0190	(-0.0180)
Sample #2 =	7.0440	(0.0070)
Sample #3 =	7.0080	(-0.0070)
Sample #4 =	6.9630	(0.0020)

Avg % Abs = 7.0050 (0.0007)
STD DEV = 0.0406 (0.0071)
REL STD DEV = 0.579 (1064.190)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12828, 9um Io = 13997

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.2050	(-0.0120)
Sample #2 =	5.2770	(-0.0080)
Sample #3 =	5.2690	(0.0020)
Sample #4 =	5.2540	(0.0000)

Avg % Abs = 5.2667 (-0.0020)
STD DEV = 0.0117 (0.0053)
REL STD DEV = 0.222 (264.575)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	10.2890	(-0.0070)
Sample #2 =	10.4310	(0.0140)
Sample #3 =	10.3820	(0.0070)
Sample #4 =	10.3950	(0.0000)

Avg % Abs = 10.4027 (0.0070)
STD DEV = 0.0254 (0.0070)
REL STD DEV = 0.244 (100.000)

Optical Calibration 2
SN: 80-001120
Agency: FHP
Date: 7/5/2018
Quadratic Fit: +/-0.002g/210L
By: DERR

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

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.099
Std Dev = 0.00 Rel Std Dev = 1.54
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.819
Std Dev = 0.00 Rel Std Dev = 0.35
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.888
Std Dev = 0.00 Rel Std Dev = 0.03
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.520
Std Dev = 0.02 Rel Std Dev = 0.65
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.267
Std Dev = 0.01 Rel Std Dev = 0.22
Zero Order Coef = -317.00
First Order Coef = 2726.69
Second Order Coef = 10.11
Standard Deviation = 85.182899

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.089
Std Dev = 0.01 Rel Std Dev = 13.07
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.580
Std Dev = 0.01 Rel Std Dev = 0.49
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.747
Std Dev = 0.01 Rel Std Dev = 0.30
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 7.005
Std Dev = 0.04 Rel Std Dev = 0.58
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 10.403
Std Dev = 0.03 Rel Std Dev = 0.24
Zero Order Coef = -163.61
First Order Coef = 1311.81
Second Order Coef = 7.78
Standard Deviation = 83.090614

Solution Stats Quadratic Fit Chan 1

Act g/210L	Fit g/210L	Residual g/210L
0.000	-0.001	0.0010
0.040	0.040	-0.0004
0.100	0.102	-0.0022
0.200	0.198	0.0025
0.300	0.301	-0.0008

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	-0.001	0.0010
0.040	0.041	-0.0005
0.100	0.102	-0.0021
0.200	0.198	0.0024
0.300	0.301	-0.0008

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3211.00
Sample #2 = 3225.00
Sample #3 = 3211.00
Sample #4 = 3233.00
Average Result = 3223.0000
STD DEV = 11.1355
REL STD DEV = 0.346
****
***** CHANNEL 2
Sample #1 = 3578.00
Sample #2 = 3580.00
Sample #3 = 3584.00
Sample #4 = 3616.00
Average Result = 3593.3333
STD DEV = 19.7315
REL STD DEV = 0.549
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1019
3 um H20 Adjust (mg/l*10,000) = 586
9 um H20 Adjust (mg/l*10,000) = 216
**** AUTO CAL PASS

RDB

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Post Stabilities 2	80-001120	Florida Highway Patrol	07/05/2018	Dee

0.05g/210L

SN: SD3967 Temp: 34.07c

0.047 to 0.053 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:30
Control Test	0.051	09:31
Air Blank	0.000	09:32
Control Test	0.051	09:32
Air Blank	0.000	09:33
Control Test	0.051	09:34
Air Blank	0.000	09:34

Control Test Stats

Average	0.0502
Std Dev	0.0006
Rel Std Dev(%)	1.1472

Dee
Operator's Signature

7/30/18

0.08g/210L

SN: SD3968 Temp: 34.07c

0.077 to 0.083 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:35
Control Test	0.083	09:36
Air Blank	0.000	09:36
Control Test	0.083	09:37
Air Blank	0.000	09:37
Control Test	0.083	09:38
Air Blank	0.000	09:39

Control Test Stats

Average	0.0830
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Dee
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.08c

0.194 to 0.206 ☑

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:40
Control Test	0.200	09:41
Air Blank	0.000	09:41
Control Test	0.202	09:42
Air Blank	0.000	09:43
Control Test	0.202	09:43
Air Blank	0.000	09:44

Control Test Stats

Average	0.2013
Std Dev	0.0012
Rel Std Dev(%)	0.5735

Dee
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☒

FHP TROOP K
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001120
07/05/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:45
Control Test	0.079	09:45
Air Blank	0.000	09:46
Control Test	0.079	09:46
Air Blank	0.000	09:47
Control Test	0.079	09:47
Air Blank	0.000	09:47

Control Test Stats

Average	0.0790
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Dee
Operator's Signature