INSTRUMENT PROCESSING SHEET

FDLE
Florida Department of Law Enforcement

Agency Florida Highway Patrol S/N 80-006770

Date In 09/19/2018 DCC DI Completion Date 09/20/2018 ☐Ship ☐P/U ☑H/D ☐CMI ☐EE

Intake Performed By DCC

- ☑ 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

OCT 01 2018

Alcohol Testing Program

Quality Checks Performed By DCC

- ☑ Breath Tube Screen
- ☑ Replace External O-Rings
- ☑ Instrument Set Up Verified
- ☑ R-Value 242
- ☑ Flow Verification (L/s)

Flow Column # ATP 101

32 mm	.148	(.139 - .169)
36 mm	.167	(.156 - .190)
53 mm	.234	(.228 - .278)
103 mm	.507	(.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 DCC

- ☑ Lab Temp °C 21.47C

External Digital Therm. ID#: 300949

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

Calibration Adjustment Performed By DCC

Barometric Pressure Gauge 1016/1016 ID # 28663

Simulator	Serial Number	Lot Number	Expiration
0.000	2235	N/A	N/A
0.040	2237	17410	12/06/2019
0.100	2238	18070	02/26/2020
0.200	2239	17340	10/09/2019
0.300	2108	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	201707C	07/24/2019
0.080 DGS	N/A	AG805701	02/26/2020

Department Inspection Performed By DCC

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 Calibration adjustment to bring values closer to nominal.

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**

RPM 10/1/18 — Tech Review / Date

10/1/18 — Admin Review / Date

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: FL HIGHWAY PATROL
Serial Number: 80-006770
Time of Inspection: 12:23
Date of Inspection: 09/20/2018
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	0.049	0.081	0.199	0.079
0.000	0.050	0.082	0.203	0.079
0.000	0.050	0.082	0.204	0.079
0.000	0.050	0.082	0.203	0.079
0.000	0.050	0.081	0.203	0.079
0.000	0.050	0.082	0.203	0.079
0.000	0.050	0.082	0.203	0.079
0.000	0.050	0.081	0.203	0.079
0.000	0.050	0.081	0.203	0.078
0.000	0.050	0.081	0.203	0.078

Standard Deviations	0.0003	0.0005	0.0013	0.0004

Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0006 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

09/20/2018
Date

10/1/18

FDLE/ATP Form 41 –Revised August 2005

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Stabilities	80-006770	Florida Highway Patrol	09/20/2018	DLL

0.05g/210L

SN: SD3967 Temp: 34.06c

0.047 to 0.053 ☒

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	06:06
Control Test	0.045	06:06
Air Blank	0.000	06:07
Control Test	0.045	06:08
Air Blank	0.000	06:08
Control Test	0.045	06:09
Air Blank	0.000	06:09

Control Test Stats

Average	0.0450
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DLL
Operator's Signature

10/1/18

0.08g/210L

SN: SD3968 Temp: 34.09c

0.077 to 0.083 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	06:10
Control Test	0.077	06:11
Air Blank	0.000	06:11
Control Test	0.078	06:12
Air Blank	0.000	06:13
Control Test	0.077	06:13
Air Blank	0.000	06:14

Control Test Stats

Average	0.0773
Std Dev	0.0006
Rel Std Dev(%)	0.7466

DLL
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.10c

0.194 to 0.206 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	06:15
Control Test	0.195	06:16
Air Blank	0.000	06:16
Control Test	0.196	06:17
Air Blank	0.000	06:18
Control Test	0.196	06:18
Air Blank	0.000	06:19

Control Test Stats

Average	0.1957
Std Dev	0.0006
Rel Std Dev(%)	0.2951

DLL
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	06:20
Control Test	0.079	06:20
Air Blank	0.000	06:21
Control Test	0.079	06:21
Air Blank	0.000	06:22
Control Test	0.078	06:22
Air Blank	0.000	06:23

Control Test Stats

Average	0.0787
Std Dev	0.0006
Rel Std Dev(%)	0.7339

DLL
Operator's Signature

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 80-006770 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

			UNCERTAINTY* ±
Serial Number:	80-006770		
Owning Agency:	FL HIGHWAY PATROL	0.050 g/ 210 L	0.004
Calibration Date:	09/20/2018	0.080 g/ 210 L	0.005
Calibration Time:	12:23	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.

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09/20/2018
Date

DAVID E REYES-RIVERA,
Department Inspector

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

Service • Integrity • Respect • Quality

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018 06:51:53

Auto Calibration
Max Power Res Value = 113
Auto Range Res Value = 82

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12874, 9um Io = 13153

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0390	(-0.0140)
Sample #2 =	0.0370	(-0.0060)
Sample #3 =	0.0280	(0.0030)
Sample #4 =	-0.0120	(0.0270)

Avg % Abs = 0.0177 (0.0080)
STD DEV = 0.0261 (0.0171)
REL STD DEV = 147.641 (213.234)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0790	(-0.0110)
Sample #2 =	0.0760	(-0.0160)
Sample #3 =	0.0890	(-0.0290)
Sample #4 =	0.0470	(-0.0020)

Avg % Abs = 0.0707 (-0.0157)
STD DEV = 0.0215 (0.0135)
REL STD DEV = 30.427 (86.190)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12872, 9um Io = 13156

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7480	(-0.0180)
Sample #2 =	0.7020	(0.0040)
Sample #3 =	0.7500	(-0.0120)
Sample #4 =	0.6990	(0.0150)

Avg % Abs = 0.7170 (0.0023)
STD DEV = 0.0286 (0.0136)
REL STD DEV = 3.991 (581.869)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4430	(-0.0070)
Sample #2 =	1.4270	(0.0090)
Sample #3 =	1.4790	(-0.0150)
Sample #4 =	1.4290	(0.0150)

Avg % Abs = 1.4450 (0.0030)
STD DEV = 0.0295 (0.0159)
REL STD DEV = 2.039 (529.150)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12871, 9um Io = 13157

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.7910	(-0.0120)
Sample #2 =	1.7280	(0.0200)
Sample #3 =	1.7940	(-0.0030)
Sample #4 =	1.7630	(0.0230)

Avg % Abs = 1.7617 (0.0133)
STD DEV = 0.0330 (0.0142)
REL STD DEV = 1.874 (106.683)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4510	(-0.0040)
Sample #2 =	3.4010	(0.0280)
Sample #3 =	3.4460	(0.0110)
Sample #4 =	3.4280	(0.0220)

Avg % Abs = 3.4250 (0.0203)
STD DEV = 0.0226 (0.0086)
REL STD DEV = 0.661 (42.402)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12866, 9um Io = 13153

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4190	(-0.0180)
Sample #2 =	3.3940	(-0.0010)
Sample #3 =	3.4060	(-0.0080)
Sample #4 =	3.4460	(-0.0220)

Avg % Abs = 3.4153 (-0.0103)
STD DEV = 0.0272 (0.0107)
REL STD DEV = 0.797 (103.478)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.5620	(-0.0020)
Sample #2 =	6.5330	(0.0220)
Sample #3 =	6.5470	(0.0140)
Sample #4 =	6.5650	(-0.0020)

Avg % Abs = 6.5483 (0.0113)
STD DEV = 0.0160 (0.0122)
REL STD DEV = 0.245 (107.825)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12870, 9um Io = 13154

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.0310	(-0.0200)
Sample #2 =	4.9960	(0.0150)
Sample #3 =	5.0200	(0.0220)
Sample #4 =	5.0570	(0.0030)

Avg % Abs = 5.0243 (0.0133)
STD DEV = 0.0307 (0.0096)
REL STD DEV = 0.612 (72.068)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.4450	(0.0040)
Sample #2 =	9.4770	(0.0250)
Sample #3 =	9.4800	(0.0300)
Sample #4 =	9.5180	(0.0150)

Avg % Abs = 9.4917 (0.0233)
STD DEV = 0.0229 (0.0076)
REL STD DEV = 0.241 (32.733)

Optical Calibration
SN: 80-006770
Agency: Florida Highway Patrol
Date: 9/~~12~~/2018 20 DEER
Quadratic Fit: +/-0.002g/210L
By: Jeff

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

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.018
Std Dev = 0.03 Rel Std Dev = 147.64
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.717
Std Dev = 0.03 Rel Std Dev = 3.99
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.762
Std Dev = 0.03 Rel Std Dev = 1.87
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.415
Std Dev = 0.03 Rel Std Dev = 0.80
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.024
Std Dev = 0.03 Rel Std Dev = 0.61
Zero Order Coef = -45.84
First Order Coef = 2679.61
Second Order Coef = 34.57
Standard Deviation = 13.912894

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.071
Std Dev = 0.02 Rel Std Dev = 30.43
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.445
Std Dev = 0.03 Rel Std Dev = 2.04
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.425
Std Dev = 0.02 Rel Std Dev = 0.66
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.548
Std Dev = 0.02 Rel Std Dev = 0.24
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.492
Std Dev = 0.02 Rel Std Dev = 0.24
Zero Order Coef = -98.69
First Order Coef = 1365.34
Second Order Coef = 15.83
Standard Deviation = 2.397431

Solution Stats Quadratic Fit Chan 1

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.000	-0.0000
0.040	0.040	0.0002
0.100	0.100	-0.0004
0.200	0.200	0.0003
0.300	0.300	-0.0001

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	-0.000	0.0000
0.040	0.040	-0.0001
0.100	0.100	-0.0000
0.200	0.200	0.0001
0.300	0.300	-0.0000

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3634.00
Sample #2 = 3619.00
Sample #3 = 3551.00
Sample #4 = 3577.00
Average Result = 3582.3333
STD DEV = 34.3123
REL STD DEV = 0.958
****
***** CHANNEL 2
Sample #1 = 3532.00
Sample #2 = 3517.00
Sample #3 = 3516.00
Sample #4 = 3504.00
Average Result = 3512.3333
STD DEV = 7.2342
REL STD DEV = 0.206
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1016
3 um H20 Adjust (mg/l*10,000) = 227
9 um H20 Adjust (mg/l*10,000) = 297
**** AUTO CAL PASS

9gm

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Post Stabilities	80-006770	Florida Highway Patrol	09/20/2018	DEU

0.05g/210L

SN: SD3967 Temp: 34.06c

0.047 to 0.053 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	07:58
Control Test	0.051	07:58
Air Blank	0.000	07:59
Control Test	0.051	08:00
Air Blank	0.000	08:00
Control Test	0.051	08:01
Air Blank	0.000	08:01

Control Test Stats

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

DEU
Operator's Signature

8/1/18

0.08g/210L

SN: SD3968 Temp: 34.09c

0.077 to 0.083 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:03
Control Test	0.083	08:03
Air Blank	0.000	08:04
Control Test	0.083	08:04
Air Blank	0.000	08:05
Control Test	0.083	08:06
Air Blank	0.000	08:06

Control Test Stats

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

DEU
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.10c

0.194 to 0.206 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:07
Control Test	0.205	08:08
Air Blank	0.000	08:09
Control Test	0.206	08:09
Air Blank	0.000	08:10
Control Test	0.206	08:11
Air Blank	0.000	08:11

Control Test Stats

Average	0.2057
Std Dev	0.0006
Rel Std Dev(%)	0.2807

DEU
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☒

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:13
Control Test	0.079	08:13
Air Blank	0.000	08:13
Control Test	0.078	08:14
Air Blank	0.000	08:14
Control Test	0.078	08:15
Air Blank	0.000	08:15

Control Test Stats

Average	0.0783
Std Dev	0.0006
Rel Std Dev(%)	0.7370

DEU
Operator's Signature

BJM

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018 08:18:04

Auto Calibration
Max Power Res Value = 113
Auto Range Res Value = 82

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12885, 9um Io = 13160

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	-0.0030	(-0.0040)
Sample #2 =	0.0420	(-0.0270)
Sample #3 =	0.0230	(0.0000)
Sample #4 =	0.0000	(0.0000)

Avg % Abs = 0.0217 (-0.0090)
STD DEV = 0.0210 (0.0156)
REL STD DEV = 97.069 (173.205)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0610	(-0.0010)
Sample #2 =	0.1050	(-0.0300)
Sample #3 =	0.0770	(-0.0090)
Sample #4 =	0.0460	(-0.0070)

Avg % Abs = 0.0760 (-0.0153)
STD DEV = 0.0295 (0.0127)
REL STD DEV = 38.833 (83.094)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12886, 9um Io = 13162

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7720	(-0.0120)
Sample #2 =	0.7600	(-0.0080)
Sample #3 =	0.7120	(0.0170)
Sample #4 =	0.7500	(0.0020)

Avg % Abs = 0.7407 (0.0037)
STD DEV = 0.0253 (0.0126)
REL STD DEV = 3.419 (343.174)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.5090	(-0.0230)
Sample #2 =	1.4940	(0.0020)
Sample #3 =	1.4740	(0.0150)
Sample #4 =	1.4940	(-0.0130)

Avg % Abs = 1.4873 (0.0013)
STD DEV = 0.0115 (0.0140)
REL STD DEV = 0.776 (1050.893)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12882, 9um Io = 13161

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.7850	(0.0000)
Sample #2 =	1.8030	(-0.0160)
Sample #3 =	1.8100	(-0.0170)
Sample #4 =	1.7620	(0.0040)

Avg % Abs = 1.7917 (-0.0097)
STD DEV = 0.0259 (0.0118)
REL STD DEV = 1.447 (122.547)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4840	(0.0030)
Sample #2 =	3.5170	(0.0000)
Sample #3 =	3.5140	(0.0000)
Sample #4 =	3.4740	(0.0130)

Avg % Abs = 3.5017 (0.0043)
STD DEV = 0.0240 (0.0075)
REL STD DEV = 0.686 (173.205)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12884, 9um Io = 13161

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4890	(-0.0180)
Sample #2 =	3.4470	(0.0220)
Sample #3 =	3.4740	(0.0000)
Sample #4 =	3.4390	(0.0300)

Avg % Abs = 3.4533 (0.0173)
STD DEV = 0.0183 (0.0155)
REL STD DEV = 0.531 (89.624)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.6450	(-0.0120)
Sample #2 =	6.6010	(0.0320)
Sample #3 =	6.6220	(0.0230)
Sample #4 =	6.6050	(0.0350)

Avg % Abs = 6.6093 (0.0300)
STD DEV = 0.0112 (0.0062)
REL STD DEV = 0.169 (20.817)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12881, 9um Io = 13158

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.0790	(-0.0180)
Sample #2 =	5.0610	(-0.0060)
Sample #3 =	5.0480	(-0.0020)
Sample #4 =	5.0670	(-0.0060)

Avg % Abs = 5.0587 (-0.0047)
STD DEV = 0.0097 (0.0023)
REL STD DEV = 0.192 (49.487)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.5780	(-0.0100)
Sample #2 =	9.5680	(0.0150)
Sample #3 =	9.5760	(0.0070)
Sample #4 =	9.5980	(0.0000)

Avg % Abs = 9.5807 (0.0073)
STD DEV = 0.0155 (0.0075)
REL STD DEV = 0.162 (102.348)

Optical Calibration 2
SN: 80-006770
Agency: Florida Highway Patrol
Date: 9/20/2018
Quadratic Fit: +/-0.002g/210L
By: Dee

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

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.022
Std Dev = 0.02 Rel Std Dev = 97.07
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.741
Std Dev = 0.03 Rel Std Dev = 3.42
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.792
Std Dev = 0.03 Rel Std Dev = 1.45
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.453
Std Dev = 0.02 Rel Std Dev = 0.53
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.059
Std Dev = 0.01 Rel Std Dev = 0.19
Zero Order Coef = -62.86
First Order Coef = 2627.45
Second Order Coef = 41.55
Standard Deviation = 12.718408

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.076
Std Dev = 0.03 Rel Std Dev = 38.83
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.487
Std Dev = 0.01 Rel Std Dev = 0.78
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.502
Std Dev = 0.02 Rel Std Dev = 0.69
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.609
Std Dev = 0.01 Rel Std Dev = 0.17
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.581
Std Dev = 0.02 Rel Std Dev = 0.16
Zero Order Coef = -116.43
First Order Coef = 1340.31
Second Order Coef = 17.13
Standard Deviation = 23.348063

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	-0.000	0.0001
0.040	0.040	-0.0000
0.100	0.100	-0.0003
0.200	0.200	0.0004
0.300	0.300	-0.0001

Solution Stats Quadratic Fit Chan 2

Act.	Fit	Residual
g/210L	g/210L	g/210L
0.000	-0.000	0.0003
0.040	0.040	-0.0002
0.100	0.101	-0.0005
0.200	0.199	0.0007
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 = 3513.00
Sample #2 = 3508.00
Sample #3 = 3415.00
Sample #4 = 3456.00
Average Result = 3459.6667
STD DEV = 46.6083
REL STD DEV = 1.347
****
***** CHANNEL 2
Sample #1 = 3466.00
Sample #2 = 3435.00
Sample #3 = 3429.00
Sample #4 = 3435.00
Average Result = 3433.0000
STD DEV = 3.4641
REL STD DEV = 0.101
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1016
3 um H20 Adjust (mg/l*10,000) = 350
9 um H20 Adjust (mg/l*10,000) = 376
**** AUTO CAL PASS

10/1/18

Ryan

TYPE OF TEST	SERIAL NUMBER	AGENCY	DATE	PERFORMED BY
Post Stabilities 2	80-006770	Florida Highway Patrol	09/20/2018	Dee

0.05g/210L

SN: SD3967 Temp: 34.06c

0.047 to 0.053 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:08
Control Test	0.050	09:09
Air Blank	0.000	09:10
Control Test	0.050	09:10
Air Blank	0.000	09:11
Control Test	0.050	09:12
Air Blank	0.000	09:12

Control Test Stats

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

Dee
Operator's Signature

09/20/18

0.08g/210L

SN: SD3968 Temp: 34.09c

0.077 to 0.083 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:13
Control Test	0.082	09:14
Air Blank	0.000	09:15
Control Test	0.082	09:15
Air Blank	0.000	09:16
Control Test	0.082	09:17
Air Blank	0.000	09:17

Control Test Stats

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

Dee
Operator's Signature

0.20g/210L

SN: SD3969 Temp:34.10c

0.194 to 0.206 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:18
Control Test	0.204	09:19
Air Blank	0.000	09:20
Control Test	0.204	09:20
Air Blank	0.000	09:21
Control Test	0.204	09:22
Air Blank	0.000	09:22

Control Test Stats

Average	0.2040
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Dee
Operator's Signature

DGS 0.08g/210L

Lot AG805701

0.077 to 0.083 ☑

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006770
09/20/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:23
Control Test	0.079	09:24
Air Blank	0.000	09:24
Control Test	0.079	09:25
Air Blank	0.000	09:25
Control Test	0.079	09:25
Air Blank	0.000	09:26

Control Test Stats

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

Dee
Operator's Signature

BBM