FDLE
Florida Department of Law Enforcement

INSTRUMENT PROCESSING SHEET

Agency Florida Highway Patrol S/N 80-003411

Date In 2/2/2018 DI Completion Date 02/22/2018 ☑Ship ☐P/U ☐H/D ☐CMI ☐EE

Intake Performed By TG

- ☑ 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

FEB 2 3 2018

Alcohol Testing Program

Quality Checks Performed By DMB

- ☑ Breath Tube Screen
- ☑ Replace External O-Rings
- ☑ Instrument Set Up Verified
- ☑ R-Value 210
- ☑ Flow Verification (L/s)

Flow Column # ATP 105

32 mm 0.160 (.139 - .169)
36 mm 0.179 (.156 - .190)
53 mm 0.250 (.228 - .278)
103 mm 0.523 (.447 - .547)

- ☑ Barometric Pressure Check

Gauge ID # 28427

- ☑ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	G2835	201707D 07/25/2019
0.080	SD1013	201707E 07/25/2019
0.200	SD1025	201707C 07/24/2019
0.080 DGS	N/A	AG708807 03/29/2019

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 DMB

- ☑ Lab Temp °C 22.3

External Digital Therm. ID#: 300503

- ☑ 34°C +-.2 Serial #: G2835
- ☑ 34°C +-.2 Serial #: SD1013
- ☑ 34°C +-.2 Serial #: SD1025

Calibration Adjustment Performed By DMB

Barometric Pressure Gauge 1030 ID # 28662

Simulator	Serial Number	Lot Number	Expiration
0.000	G2879	N/A	N/A
0.040	SD1024	16320	10/21/2018
0.100	G2834	17280	09/11/2019
0.200	SD1011	17090	02/24/2019
0.300	DR1275	17140	05/15/2019
0.080 DGS	N/A	17817080A2	08/05/2019

- ☑ Post Calibration Adjustment Stability Checks

Simulator	Serial Number	Lot Number	Expiration
0.050	G2835	201707D	07/25/2019
0.080	SD1013	201707E	07/25/2019
0.200	SD1025	201707C	07/24/2019
0.080 DGS	N/A	AG715202	06/01/2019

Department Inspection Performed By DMB

Barometric Pressure ID# 28427

Gauge 1028 Instrument 1029

Mouth Alcohol Solution Lot # 2016-C

Acetone Stock Solution Lot # 2017-A

Simulator	Serial Number
0.000	G2880
Interferent	G8144
0.050	G2835
0.080	SD1013
0.200	SD1025

Attachments

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

Notes/Suggested Service: Performed optical bench calibration adjustment to bring values closer to nominal. DMB 2/22/18

- ☑ **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**

2/23/18 Tech Review / Date

2/23/18 Admin Review / Date

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: FL HIGHWAY PATROL
Time of Inspection: 13:32
Date of Inspection: 02/22/2018
Serial Number: 80-003411
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#:AG715202 Exp: 06/01/2019
0.000	0.049	0.080	0.199	0.079
0.000	0.049	0.081	0.200	0.079
0.000	0.050	0.082	0.200	0.079
0.000	0.050	0.081	0.200	0.079
0.000	0.049	0.082	0.200	0.079
0.000	0.049	0.081	0.200	0.079
0.000	0.050	0.082	0.200	0.079
0.000	0.050	0.081	0.201	0.079
0.000	0.049	0.081	0.200	0.079
0.000	0.050	0.081	0.200	0.080

Standard Deviations	0.0005	0.0006	0.0004	0.0003

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.

DANIELLE M BELL
Signature and Printed Name

02/22/2018
Date

2/25/18

FDLE/ATP Form 41 –Revised August 2005

Stability Checks #80-003411 FL Highway Patrol 2/7/18 DMB

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/07/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:53
Control Test	0.050	09:53
Air Blank	0.000	09:54
Control Test	0.050	09:54
Air Blank	0.000	09:55
Control Test	0.050	09:56
Air Blank	0.000	09:56

Control Test Stats

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

Operator's Signature

2/23/18 DS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/07/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:57
Control Test	0.081	09:58
Air Blank	0.000	09:59
Control Test	0.081	09:59
Air Blank	0.000	10:00
Control Test	0.082	10:01
Air Blank	0.000	10:01

Control Test Stats

Average	0.0813
Std Dev	0.0006
Rel Std Dev(%)	0.7099

Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/07/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:03
Control Test	0.199	10:04
Air Blank	0.000	10:04
Control Test	0.199	10:05
Air Blank	0.000	10:06
Control Test	0.200	10:06
Air Blank	0.000	10:07

Control Test Stats

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

DGS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/07/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:08
Control Test	0.078	10:09
Air Blank	0.000	10:09
Control Test	0.078	10:09
Air Blank	0.000	10:10
Control Test	0.078	10:10
Air Blank	0.000	10:11

Control Test Stats

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

Operator's Signature

FDLE

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 80-003411, manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-003411
Owning Agency:	FL HIGHWAY PATROL
Calibration Date:	02/22/2018
Calibration Time:	13:32

	UNCERTAINTY* ±
0.05 g/ 210 L	0.004
0.08 g/ 210 L	0.005
0.20 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 Tartget Alcohol concentration.
*Uncertainty is based on fleet-wide data and is expressed to a 99% 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.

02/22/2018
Date

DANIELLE M BELL,
Department Inspector

2/23/18

Optical Bench Calibration Adjustment #80-003411 FL Highway Patrol 2/22/18 KMS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018 09:49:18

Auto Calibration
Max Power Res Value = 20
Auto Range Res Value = 8

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12615, 9um Io = 13414

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0600	(-0.0050)
Sample #2 =	0.0480	(0.0230)
Sample #3 =	0.0430	(0.0280)
Sample #4 =	0.0330	(0.0400)

Avg % Abs = 0.0413 (0.0303)
STD DEV = 0.0076 (0.0087)
REL STD DEV = 18.478 (28.803)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.1030	(-0.0140)
Sample #2 =	0.0850	(0.0010)
Sample #3 =	0.0780	(0.0040)
Sample #4 =	0.1020	(-0.0130)

Avg % Abs = 0.0883 (-0.0027)
STD DEV = 0.0123 (0.0091)
REL STD DEV = 13.972 (340.267)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12604, 9um Io = 13412

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7390	(-0.0100)
Sample #2 =	0.7850	(-0.0240)
Sample #3 =	0.7450	(0.0000)
Sample #4 =	0.7710	(0.0000)

Avg % Abs = 0.7670 (-0.0080)
STD DEV = 0.0203 (0.0139)
REL STD DEV = 2.646 (173.205)

8/23/18

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4640	(0.0040)
Sample #2 =	1.4900	(-0.0250)
Sample #3 =	1.4630	(0.0000)
Sample #4 =	1.5160	(-0.0100)

Avg % Abs = 1.4897 (-0.0117)
STD DEV = 0.0265 (0.0126)
REL STD DEV = 1.779 (107.855)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12600, 9um Io = 13412

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8340	(-0.0120)
Sample #2 =	1.8070	(-0.0060)
Sample #3 =	1.8450	(-0.0200)
Sample #4 =	1.8010	(0.0080)

Avg % Abs = 1.8177 (-0.0060)
STD DEV = 0.0239 (0.0140)
REL STD DEV = 1.313 (233.333)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5740	(-0.0210)
Sample #2 =	3.5420	(0.0010)
Sample #3 =	3.5470	(-0.0010)
Sample #4 =	3.5100	(0.0110)

Avg % Abs = 3.5333 (0.0037)
STD DEV = 0.0201 (0.0064)
REL STD DEV = 0.568 (175.339)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12599, 9um Io = 13413

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5570	(-0.0020)
Sample #2 =	3.5270	(0.0200)
Sample #3 =	3.5690	(0.0070)
Sample #4 =	3.5190	(0.0360)

Avg % Abs = 3.5383 (0.0210)
STD DEV = 0.0269 (0.0145)
REL STD DEV = 0.759 (69.171)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.8560	(-0.0100)
Sample #2 =	6.8220	(0.0390)
Sample #3 =	6.8510	(0.0120)
Sample #4 =	6.8220	(0.0370)

Avg % Abs = 6.8317 (0.0293)
STD DEV = 0.0167 (0.0150)
REL STD DEV = 0.245 (51.288)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12595, 9um Io = 13410

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.2080	(-0.0160)
Sample #2 =	5.1840	(0.0000)
Sample #3 =	5.1840	(0.0000)
Sample #4 =	5.1470	(0.0210)

Avg % Abs = 5.1717 (0.0070)
STD DEV = 0.0214 (0.0121)
REL STD DEV = 0.413 (173.205)

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

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.9260	(-0.0240)
Sample #2 =	9.8810	(0.0160)
Sample #3 =	9.8750	(0.0130)
Sample #4 =	9.8570	(0.0380)

Standard Deviation = 25.393145

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.000	-0.0003
0.040	0.040	0.0002
0.100	0.099	0.0006
0.200	0.201	-0.0007
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 = 3384.00
Sample #2 = 3382.00
Sample #3 = 3387.00
Sample #4 = 3371.00
Average Result = 3380.0000
STD DEV = 8.1854
REL STD DEV = 0.242
****
***** CHANNEL 2
Sample #1 = 3450.00
Sample #2 = 3449.00
Sample #3 = 3430.00
Sample #4 = 3441.00
Average Result = 3440.0000
STD DEV = 9.5394
REL STD DEV = 0.277
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1030
3 um H20 Adjust (mg/l*10,000) = 429
9 um H20 Adjust (mg/l*10,000) = 369
**** AUTO CAL PASS

Internal printer paper jammed. See external printer print-out.

KMS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018 09:49:18

Optical Bench Cal Adjust Data
2/22/18 RDB

Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.0600	(-0.0050)	0.1030	(-0.0140)
Sample #2	0.0480	(0.0230)	0.0850	(0.0010)
Sample #3	0.0430	(0.0280)	0.0780	(0.0040)
Sample #4	0.0330	(0.0400)	0.1020	(-0.0130)
Avg % Abs	0.0413	(0.0303)	0.0883	(-0.0027)
STD DEV	0.0076	(0.0087)	0.0123	(0.0091)
REL STD DEV	18.478	(28.803)	13.972	(340.267)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7390	(-0.0100)	1.4640	(0.0040)
Sample #2	0.7850	(-0.0240)	1.4900	(-0.0250)
Sample #3	0.7450	(0.0000)	1.4630	(0.0000)
Sample #4	0.7710	(0.0000)	1.5160	(-0.0100)
Avg % Abs	0.7670	(-0.0080)	1.4897	(-0.0117)
STD DEV	0.0203	(0.0139)	0.0265	(0.0126)
REL STD DEV	2.646	(173.205)	1.779	(107.855)
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.8340	(-0.0120)	3.5740	(-0.0210)
Sample #2	1.8070	(-0.0060)	3.5420	(0.0010)
Sample #3	1.8450	(-0.0200)	3.5470	(-0.0010)
Sample #4	1.8010	(0.0080)	3.5100	(0.0110)
Avg % Abs	1.8177	(-0.0060)	3.5330	(0.0037)
STD DEV	0.0239	(0.0140)	0.0201	(0.0064)
REL STD DEV	1.313	(233.333)	0.568	(175.339)
Solution = 0.200 g/210L or 0.9524 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	3.5570	(-0.0020)	6.8560	(-0.0100)
Sample #2	3.5270	(0.0200)	6.8220	(0.0390)
Sample #3	3.5690	(0.0070)	6.8510	(0.0120)
Sample #4	3.5190	(0.0360)	6.8220	(0.0370)
Avg % Abs	3.5383	(0.0210)	6.8317	(0.0293)
STD DEV	0.0269	(0.0145)	0.0167	(0.0150)
REL STD DEV	0.759	(69.171)	0.245	(51.288)
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.2080	(-0.0160)	9.9260	(-0.0240)
Sample #2	5.1840	(0.0000)	9.8810	(0.0160)
Sample #3	5.1840	(0.0000)	9.8750	(0.0130)
Sample #4	5.1470	(0.0210)	9.8570	(0.0380)
Avg % Abs	5.1717	(0.0070)	9.8710	(0.0223)
STD DEV	0.0214	(0.0121)	0.0125	(0.0137)
REL STD DEV	0.413	(173.205)	0.127	(61.121)

2/23/18 JJ

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018 09:49:18

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-106.54	-101.21
First Order Coef	2605.83	1319.58
Second Order Coef	34.03	13.83

Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0000	0.000	0.000	-0.0003
0.040	0.040	-0.0002	0.040	0.040	0.0002
0.100	0.100	0.0004	0.100	0.099	0.0006
0.200	0.200	-0.0003	0.200	0.201	-0.0007
0.300	0.300	0.0001	0.300	0.300	0.0003

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1

Sample	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Sample #1	3384.00	3450.00
Sample #2	3382.00	3449.00
Sample #3	3387.00	3430.00
Sample #4	3371.00	3441.00
Avg	3380.0000	3440.0000
STD DEV	8.1854	9.5394
REL STD DEV	0.242	0.277
H2O adjust (mg/l*10k)	429	369

Barometric Pressure = 1030

**********CALIBRATION SUCCESSFUL**********

2/23/18

Post - Calibration Adjust

Stability Checks #80-003411 FL Highway Patrol 2/22/18 DAS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:57
Control Test	0.050	10:58
Air Blank	0.000	10:58
Control Test	0.049	10:59
Air Blank	0.000	11:00
Control Test	0.050	11:00
Air Blank	0.000	11:01

Control Test Stats

Average	0.0497
Std Dev	0.0006
Rel Std Dev(%)	1.1625

Operator's Signature

2/23/18 DAS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:02
Control Test	0.082	11:03
Air Blank	0.000	11:03
Control Test	0.081	11:04
Air Blank	0.000	11:04
Control Test	0.082	11:05
Air Blank	0.000	11:06

Control Test Stats

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

Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018
Software: 8100.27

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

Control Test Stats

Average	0.2000
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Operator's Signature

DAS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003411
02/22/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:16
Control Test	0.080	11:16
Air Blank	0.000	11:17
Control Test	0.079	11:17
Air Blank	0.000	11:18
Control Test	0.079	11:18
Air Blank	0.000	11:19

Control Test Stats

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

Operator's Signature